



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 25H0034

Client Name: Draper Aden Associates - Blacksburg
2200 South Main Street Suite A
Blacksburg, VA 24060

Submitted To: Janet Frazier

Date Received: July 31, 2025 10:00
Date Issued: August 7, 2025 12:09
Project Number: 667639
Purchase Order:

Client Site I.D.: HWMU 16

Enclosed are the results of analyses for samples received by the laboratory on 07/31/2025 10:00. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Keith Sprouse
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Enthalpy Analytical.

Analysis Detects Report

Client Name:

Date Issued:

Client Site ID:

Submitted To:

Laboratory Sample ID:**Client Sample ID:**

Parameter	Samp ID	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
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There are no reportable results for target analytes in this report.

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the " Certificate of Analysis".

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16C1	25H0034-01	Ground Water	07/30/2025 14:20	07/31/2025 10:00
16MW8	25H0034-02	Ground Water	07/29/2025 11:20	07/31/2025 10:00
16MW9	25H0034-03	Ground Water	07/30/2025 13:15	07/31/2025 10:00
16WC1A	25H0034-04	Ground Water	07/30/2025 11:05	07/31/2025 10:00
16WDUP	25H0034-05	Ground Water	07/30/2025 09:25	07/31/2025 10:00
16WC1B	25H0034-06	Ground Water	07/30/2025 09:45	07/31/2025 10:00

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16C1

Laboratory Sample ID: 25H0034-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	01	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 19:50	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	01	86.1 %	5-136	08/05/2025 09:00	08/05/2025 19:50							
Surr: 2-Fluorobiphenyl (Surr)	01	71.0 %	9-117	08/05/2025 09:00	08/05/2025 19:50							
Surr: 2-Fluorophenol (Surr)	01	42.8 %	5-60	08/05/2025 09:00	08/05/2025 19:50							
Surr: Nitrobenzene-d5 (Surr)	01	81.6 %	5-151	08/05/2025 09:00	08/05/2025 19:50							
Surr: Phenol-d5 (Surr)	01	28.4 %	5-60	08/05/2025 09:00	08/05/2025 19:50							
Surr: p-Terphenyl-d14 (Surr)	01	63.1 %	5-141	08/05/2025 09:00	08/05/2025 19:50							

Certificate of Analysis

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Client Site I.D.: HWMU 16

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Client Sample ID: 16MW8

Laboratory Sample ID: 25H0034-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	02	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 20:18	BLOD		0.93	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	02	76.8 %	5-136	08/05/2025 09:00	08/05/2025 20:18							
Surr: 2-Fluorobiphenyl (Surr)	02	64.6 %	9-117	08/05/2025 09:00	08/05/2025 20:18							
Surr: 2-Fluorophenol (Surr)	02	37.0 %	5-60	08/05/2025 09:00	08/05/2025 20:18							
Surr: Nitrobenzene-d5 (Surr)	02	77.3 %	5-151	08/05/2025 09:00	08/05/2025 20:18							
Surr: Phenol-d5 (Surr)	02	24.0 %	5-60	08/05/2025 09:00	08/05/2025 20:18							
Surr: p-Terphenyl-d14 (Surr)	02	54.6 %	5-141	08/05/2025 09:00	08/05/2025 20:18							

Certificate of Analysis

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Client Site I.D.: HWMU 16

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Client Sample ID: 16MW9

Laboratory Sample ID: 25H0034-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	03	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 20:47	BLOD		0.93	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	03	84.9 %	5-136	08/05/2025 09:00	08/05/2025 20:47							
Surr: 2-Fluorobiphenyl (Surr)	03	68.3 %	9-117	08/05/2025 09:00	08/05/2025 20:47							
Surr: 2-Fluorophenol (Surr)	03	40.7 %	5-60	08/05/2025 09:00	08/05/2025 20:47							
Surr: Nitrobenzene-d5 (Surr)	03	79.3 %	5-151	08/05/2025 09:00	08/05/2025 20:47							
Surr: Phenol-d5 (Surr)	03	27.0 %	5-60	08/05/2025 09:00	08/05/2025 20:47							
Surr: p-Terphenyl-d14 (Surr)	03	54.8 %	5-141	08/05/2025 09:00	08/05/2025 20:47							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16WC1A

Laboratory Sample ID: 25H0034-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	04	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 21:15	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	04	91.7 %	5-136	08/05/2025 09:00	08/05/2025 21:15							
Surr: 2-Fluorobiphenyl (Surr)	04	73.1 %	9-117	08/05/2025 09:00	08/05/2025 21:15							
Surr: 2-Fluorophenol (Surr)	04	40.3 %	5-60	08/05/2025 09:00	08/05/2025 21:15							
Surr: Nitrobenzene-d5 (Surr)	04	84.1 %	5-151	08/05/2025 09:00	08/05/2025 21:15							
Surr: Phenol-d5 (Surr)	04	26.4 %	5-60	08/05/2025 09:00	08/05/2025 21:15							
Surr: p-Terphenyl-d14 (Surr)	04	66.1 %	5-141	08/05/2025 09:00	08/05/2025 21:15							

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Client Site I.D.: HWMU 16

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Client Sample ID: 16WDUP

Laboratory Sample ID: 25H0034-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	05	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 22:42	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	05	81.5 %	5-136	08/05/2025 09:00	08/05/2025 22:42							
Surr: 2-Fluorobiphenyl (Surr)	05	66.3 %	9-117	08/05/2025 09:00	08/05/2025 22:42							
Surr: 2-Fluorophenol (Surr)	05	39.6 %	5-60	08/05/2025 09:00	08/05/2025 22:42							
Surr: Nitrobenzene-d5 (Surr)	05	76.4 %	5-151	08/05/2025 09:00	08/05/2025 22:42							
Surr: Phenol-d5 (Surr)	05	26.2 %	5-60	08/05/2025 09:00	08/05/2025 22:42							
Surr: p-Terphenyl-d14 (Surr)	05	65.5 %	5-141	08/05/2025 09:00	08/05/2025 22:42							

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Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16WC1B

Laboratory Sample ID: 25H0034-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	06	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 23:10	BLOD		0.98	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	06	84.9 %	5-136	08/05/2025 09:00	08/05/2025 23:10							
Surr: 2-Fluorobiphenyl (Surr)	06	69.7 %	9-117	08/05/2025 09:00	08/05/2025 23:10							
Surr: 2-Fluorophenol (Surr)	06	38.7 %	5-60	08/05/2025 09:00	08/05/2025 23:10							
Surr: Nitrobenzene-d5 (Surr)	06	77.2 %	5-151	08/05/2025 09:00	08/05/2025 23:10							
Surr: Phenol-d5 (Surr)	06	25.6 %	5-60	08/05/2025 09:00	08/05/2025 23:10							
Surr: p-Terphenyl-d14 (Surr)	06	54.4 %	5-141	08/05/2025 09:00	08/05/2025 23:10							

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
Blank (BIH0165-BLK1)				Prepared & Analyzed: 08/05/2025						
Pentachloronitrobenzene (quintozone)	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	72.9		ug/L	100		72.9	5-136			
Surr: 2-Fluorobiphenyl (Surr)	30.2		ug/L	50.0		60.3	9-117			
Surr: 2-Fluorophenol (Surr)	39.9		ug/L	100		39.9	5-60			
Surr: Nitrobenzene-d5 (Surr)	35.4		ug/L	50.0		70.9	5-151			
Surr: Phenol-d5 (Surr)	28.4		ug/L	100		28.4	5-60			
Surr: p-Terphenyl-d14 (Surr)	33.0		ug/L	50.0		66.1	5-141			
LCS (BIH0165-BS1)				Prepared & Analyzed: 08/05/2025						
1,2,4-Trichlorobenzene	30.4	10.0	ug/L	50.0		60.8	57-130			
1,2-Dichlorobenzene	30.5	10.0	ug/L	50.0		61.0	22-115			
1,3-Dichlorobenzene	29.4	10.0	ug/L	50.0		58.8	22-112			
1,4-Dichlorobenzene	28.9	10.0	ug/L	50.0		57.8	13-112			
2,4,6-Trichlorophenol	36.3	10.0	ug/L	50.0		72.5	52-129			
2,4-Dichlorophenol	34.7	10.0	ug/L	50.0		69.4	53-122			
2,4-Dimethylphenol	31.9	5.00	ug/L	50.0		63.9	42-120			
2,4-Dinitrophenol	47.8	50.0	ug/L	50.0		95.6	48-127			
2,4-Dinitrotoluene	34.9	10.0	ug/L	50.0		69.9	10-173			
2,6-Dinitrotoluene	34.1	10.0	ug/L	50.0		68.2	68-137			
2-Chloronaphthalene	30.1	10.0	ug/L	50.0		60.1	65-120			L
2-Chlorophenol	30.8	10.0	ug/L	50.0		61.6	36-120			
2-Nitrophenol	36.9	10.0	ug/L	50.0		73.8	45-167			
3,3'-Dichlorobenzidine	36.4	10.0	ug/L	50.0		72.8	10-213			
4,6-Dinitro-2-methylphenol	46.4	50.0	ug/L	50.0		92.7	53-130			
4-Bromophenyl phenyl ether	34.5	10.0	ug/L	50.0		69.0	65-120			

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Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
LCS (BIH0165-BS1)				Prepared & Analyzed: 08/05/2025						
4-Chlorophenyl phenyl ether	31.5	10.0	ug/L	50.0		62.9	38-145			
4-Nitrophenol	15.7	50.0	ug/L	50.0		31.4	13-129			
Acenaphthene	30.5	10.0	ug/L	50.0		61.1	60-132			
Acenaphthylene	29.9	10.0	ug/L	50.0		59.8	54-126			
Acetophenone	27.8	20.0	ug/L	50.0		55.6	0-200			
Anthracene	29.6	10.0	ug/L	50.0		59.2	43-120			
Benzo (a) anthracene	32.6	10.0	ug/L	50.0		65.3	42-133			
Benzo (a) pyrene	32.3	10.0	ug/L	50.0		64.7	32-148			
Benzo (b) fluoranthene	35.9	10.0	ug/L	50.0		71.9	42-140			
Benzo (g,h,i) perylene	30.0	10.0	ug/L	50.0		60.0	10-195			
Benzo (k) fluoranthene	28.2	10.0	ug/L	50.0		56.4	25-146			
bis (2-Chloroethoxy) methane	32.0	10.0	ug/L	50.0		64.0	49-165			
bis (2-Chloroethyl) ether	30.0	10.0	ug/L	50.0		59.9	43-126			
2,2'-Oxybis (1-chloropropane)	32.9	10.0	ug/L	50.0		65.8	63-139			
bis (2-Ethylhexyl) phthalate	36.0	10.0	ug/L	50.0		72.0	29-137			
Butyl benzyl phthalate	37.4	10.0	ug/L	50.0		74.8	10-140			
Chrysene	30.5	10.0	ug/L	50.0		60.9	44-140			
Dibenz (a,h) anthracene	31.8	10.0	ug/L	50.0		63.7	10-200			
Diethyl phthalate	33.0	10.0	ug/L	50.0		66.0	10-120			
Dimethyl phthalate	32.6	10.0	ug/L	50.0		65.2	10-120			
Di-n-butyl phthalate	32.4	10.0	ug/L	50.0		64.9	10-120			
Di-n-octyl phthalate	33.1	10.0	ug/L	50.0		66.3	19-132			
Fluoranthene	29.3	10.0	ug/L	50.0		58.7	43-121			
Fluorene	30.4	10.0	ug/L	50.0		60.8	70-120			L
Hexachlorobenzene	34.0	2.50	ug/L	50.0		68.1	10-142			

Certificate of Analysis

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BIH0165 - SW3510C/EPA600-MS

LCS (BIH0165-BS1)

Prepared & Analyzed: 08/05/2025

Hexachlorobutadiene	34.0	10.0	ug/L	50.0		68.0	38-120			
Hexachlorocyclopentadiene	31.9	10.0	ug/L	50.0		63.8	10-76			
Hexachloroethane	29.9	10.0	ug/L	50.0		59.7	55-120			
Indeno (1,2,3-cd) pyrene	29.2	10.0	ug/L	50.0		58.5	10-151			
Isophorone	28.0	10.0	ug/L	50.0		56.0	47-180			
Naphthalene	28.0	5.00	ug/L	50.0		55.9	36-120			
Nitrobenzene	31.7	10.0	ug/L	50.0		63.4	54-158			
n-Nitrosodimethylamine	22.9	10.0	ug/L	50.0		45.9	10-85			
n-Nitrosodi-n-propylamine	29.6	10.0	ug/L	50.0		59.3	14-198			
n-Nitrosodiphenylamine	26.1	10.0	ug/L	50.0		52.2	12-97			
p-Chloro-m-cresol	34.1	10.0	ug/L	50.0		68.2	10-142			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L				0-200			
Pentachlorophenol	35.2	20.0	ug/L	50.0		70.3	38-152			
Phenanthrene	32.4	10.0	ug/L	50.0		64.9	65-120			L
Phenol	13.2	10.0	ug/L	50.5		26.2	17-120			
Pyrene	29.5	10.0	ug/L	50.0		59.0	70-120			L
Pyridine	23.2	10.0	ug/L	50.0		46.5	10-103			
Surr: 2,4,6-Tribromophenol (Surr)	70.3		ug/L	100		70.3	5-136			
Surr: 2-Fluorobiphenyl (Surr)	28.2		ug/L	50.0		56.4	9-117			
Surr: 2-Fluorophenol (Surr)	39.0		ug/L	100		39.0	5-60			
Surr: Nitrobenzene-d5 (Surr)	32.8		ug/L	50.0		65.6	5-151			
Surr: Phenol-d5 (Surr)	26.3		ug/L	100		26.3	5-60			
Surr: p-Terphenyl-d14 (Surr)	31.4		ug/L	50.0		62.8	5-141			

LCS (BIH0165-BS2)

Prepared & Analyzed: 08/05/2025

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
LCS (BIH0165-BS2)				Prepared & Analyzed: 08/05/2025						
2-Chloronaphthalene	39.7	10.0	ug/L				65-120			
Acetophenone	41.0	20.0	ug/L	50.0		82.0	0-200			
Pentachloronitrobenzene (quintozene)	45.2	10.0	ug/L	50.0		90.3	0-200			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	92.0		ug/L	100		92.0	5-136			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	38.0		ug/L	50.0		75.9	9-117			
<i>Surr: 2-Fluorophenol (Surr)</i>	47.3		ug/L	100		47.3	5-60			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	41.6		ug/L	50.0		83.1	5-151			
<i>Surr: Phenol-d5 (Surr)</i>	33.4		ug/L	100		33.4	5-60			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	37.6		ug/L	50.0		75.1	5-141			
Matrix Spike (BIH0165-MS1)				Source: 25H0034-04		Prepared & Analyzed: 08/05/2025				
2-Chloronaphthalene	32.8	10.0	ug/L		BLOD		60-120			
Acetophenone	35.4	20.0	ug/L	93.5	BLOD	37.9	0-200			
Pentachloronitrobenzene (quintozene)	36.6	10.0	ug/L	93.5	BLOD	39.2	0-200			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	77.2		ug/L	93.5		82.6	5-136			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	31.4		ug/L	46.7		67.1	9-117			
<i>Surr: 2-Fluorophenol (Surr)</i>	37.8		ug/L	93.5		40.5	5-60			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	36.1		ug/L	46.7		77.2	5-151			
<i>Surr: Phenol-d5 (Surr)</i>	25.4		ug/L	93.5		27.2	5-60			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	22.3		ug/L	46.7		47.7	5-141			
Matrix Spike Dup (BIH0165-MSD1)				Source: 25H0034-04		Prepared & Analyzed: 08/05/2025				
2-Chloronaphthalene	33.9	10.0	ug/L		BLOD		60-120	3.28	20	
Acetophenone	38.2	20.0	ug/L	93.5	BLOD	40.8	0-200	7.41	20	
Pentachloronitrobenzene (quintozene)	37.6	10.0	ug/L	93.5	BLOD	40.2	0-200	2.72	20	

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BIH0165 - SW3510C/EPA600-MS

Matrix Spike Dup (BIH0165-MSD1) Source: 25H0034-04 Prepared & Analyzed: 08/05/2025

Surr: 2,4,6-Tribromophenol (Surr)	80.7		ug/L	93.5		86.3	5-136
Surr: 2-Fluorobiphenyl (Surr)	32.1		ug/L	46.7		68.8	9-117
Surr: 2-Fluorophenol (Surr)	40.0		ug/L	93.5		42.8	5-60
Surr: Nitrobenzene-d5 (Surr)	38.5		ug/L	46.7		82.3	5-151
Surr: Phenol-d5 (Surr)	27.0		ug/L	93.5		28.9	5-60
Surr: p-Terphenyl-d14 (Surr)	24.3		ug/L	46.7		51.9	5-141

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method:	SW3510C/EPA600-MS	
25H0034-01	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-02	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-03	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-04	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-05	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-06	1020 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method:	SW3510C/EPA600-MS	
BIH0165-BLK1	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-BS1	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-BS2	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-MS1	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-MSD1	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
 Client Site I.D.: HWMU 16
 Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Certified Analyses included in this Report

Analyte	Certifications
SW8270E in Non-Potable Water	
Pentachloronitrobenzene (quintozene)	NCDEQ,VELAP,PADEP,WVDEP,TXCEQ

Code	Description	Laboratory ID	Expires
DURSC-NCDEQ	NCDEQ Durham Service Center	703	12/31/2025
DURSC-NCDHHS	NCDHHS Durham Service Center	37918	07/31/2026
MdDOE	Maryland DE Drinking Water	341	12/31/2025
NCDEQ	North Carolina DEQ	495	12/31/2025
NCDHHS	North Carolina Department of Health and Human Services	51714	07/31/2026
PADEP	NELAP-Pennsylvania Certificate #010	68-03503	10/31/2025
SCDES	South Carolina Dept of Environmental Services Certificate 93016001	93016	06/14/2026
TXCEQ	Texas Comm on Environmental Quality #TX-C25-00143	T104704576	05/31/2026
VELAP	NELAP-Virginia Certificate #13599	460021	06/14/2026
WVDEP	West Virginia DEP Cert ID: WV-C25-00105	350	11/30/2025

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Qualifiers and Definitions

J	The reported result is an estimated value.
L	LCS recovery is outside of established acceptance limits
RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection
BLOD	Below Limit of Detection
LOQ	Limit of Quantitation
DF	Dilution Factor
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY RECORD

Laboratory: Enthalpy Analytical, LLC 1941 Reymet Road, Richmond, VA 23237

Client: 0	Consultant: TRC Engineers Inc (formerly DAA)	Sample Site: RFAAP, Radford, Virginia	Project Specific (PS) QC: YES as indicated
Attn: 0	Attn: Janet C. Frazier	Location: HWMU16	Sample Collection for Project Complete? YES
Address: 0	Address: 2200 South Main Street Suite 1	Event: 3Q 2025 Annual GW Monitoring Event	Carrier: <u>UPS 1Z-237-301-01-9271-5231</u>
Phone: 0	Address: Blacksburg, Virginia 24060	DAA JN: 667639	Tracking Number: <u>↓ ↓ - ↓ ↓ - 9055-9020</u>
Fax: 0	Phone: (540) 552-0444		
Fax: 0			

Box 1: Matrix SW Surface Water GW Groundwater L Leachate S Soil	T Trip Blank E Equipment Blank P Product O Other	Box 2: Preservative A HCL B HNO ₃ C H ₂ SO ₄ D Na ₂ S ₂ O ₃	E NaOH F ZnAc G Other (Specify) H None	Box 3: Filtered/Unfiltered F Filtered U Unfiltered	Box 4: Sample Type G Grab C Composite	Invoice
				Box 5: Sample Container Type P Plastic AG Amber Glass	V VOA CG Clear Glass	Copy to Consultant: YES Bill: CLIENT OTHER Preserved and shipped on ice: YES

GENERAL NOTES:

- Report results to detection limit, with J flags, for italicized wells.
- VELAP accreditation required. #13428 ex 6/14/26
- Email invoice to Jfrazier@trccompanies.com.
- FULL/Comprehensive Deliverable with EDD.
- Report to these Permit Specified QL and MDL below.
Pentachloronitrobenzene only QL 10 ug/l, MDL 1 ug/l.

Box 4 - Sample Type					G					
Box 3 - Filtered/Unfiltered					U					
Required pH of Sample					H					
Box 2 - Preservative										
Box 5 - Sample Container Type					2-1L AG					
Sample ID	Date: 2025	Time	Box 1: Matrix	Number of Bottles	8270E/3510C (Semivolatiles) see note section for 1 analyte only					
16C1	7/30	1420	GW	2	X					
16MW8	7/29	1120	GW	2	X					
16MW9	7/30	1315	GW	2	X					
16WC1A	7/30	1105	GW	6	X					
16WDUP	7/30	0925	GW	2	X					
16WC1B	7/30	0945	GW	2	X					

Observed Temp °C: 2.6
 ICC 271
 Correction Factor °C: 0.0
 Scaled
 Corrected Temp °C: 2.6

USE FOR QC

DA-Blacksburg 25H0034
 HWMU 16

Recd: 07/31/2025 Due: 08/14/2025

v130325002

Clients Special Instructions:

Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival Received on Ice Yes No
 Describe problems, if any:

Sampler Name (Print): ILEN CODDINGTON	Date: 7/29/25	#1 Relinquished by (Signature): <u>[Signature]</u>	Date: 7/30/25	#2 Relinquished by (Signature): <u>UPS</u>	Date:	Sample Storage
Sampler Name (Print): <u>[Signature]</u>	Time: 0700	Company: TRC	Time: 1700	Company:	Time:	Time Requested:
Sampler Name (Print): Alexa Prate	Date: 7/29/25	#1 Received by (Signature): <u>UPS</u>	Date:	#2 Received by (Signature): <u>[Signature]</u> 7-31-25 1000	Date:	30 DYS ORG/6 MTHS INORG
Sampler Name (Print): <u>[Signature]</u>	Time: 0700	Company:	Time:	Company:	Time:	

Laboratory: Enthalpy Analytical, LLC 1941 Reymet Road, Richmond, VA 23237

Sample ID	Date: 2025	Time	Box 1: Matrix	Number of Bottles	8270E/3510C (Semivolatiles) see note section for 1 analyte only													
16C1	7/30	1420	GW	2	X													
16MW8	7/29	1120	GW	2	X													
16MW9	7/30	1315	GW	2	X													
16WC1A	7/30	1105	GW	6	X													
16WDUP	7/30	0925	GW	2	X													
16WC1B	7/30	0945	GW	2	X													

5. Report to these Permit Specified QL and MDL below.
Pentachloronitrobenzene only QL 10 ug/l, MDL 1 ug/l.

DA-Blacksburg **25H0034**
HWMU 16

Recd: 07/31/2025 Due: 08/14/2025

v130325002

USE FOR QC

Observed Temp °C: 21.1 5.6

DA-Blacksburg **25H0034**
HWMU 16

Recd: 07/31/2025 Due: 08/14/2025

v130325002

USE FOR QC

Observed Temp °C: 5.4

Correction Factor °C: 0.0

Seal
Corrected Temp °C: 5.6

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any: _____

Sampler Name (Print): ILEN CODDINGTON	Date: 7/29/25	#1 Relinquished by (Signature): <i>[Signature]</i>	Date: 7/30/25	#2 Relinquished by (Signature): UPS	Date:	Sample Storage
Signature: <i>[Signature]</i>	Time: 0700	Company: TRC	Time: 1700	Company:	Time:	Time Requested:
Sampler Name (Print): Alexa Pratz	Date: 7/29/25	#1 Received by (Signature): UPS	Date:	#2 Received by (Signature): <i>[Signature]</i>	Date: 7/31/25	30 DYS ORG/6 MTHS INORG
Signature: <i>[Signature]</i>	Time: 0700	Company:	Time:	Company:	Time:	

page 1/1 JVR 6.25.23

Order ID 25H10034

Date Performed: 8.4.25

Analyst Performing Check: HBF

[illegible]

NaOH ID: _____	HNO ₃ ID: _____	CrVI preserved date/time: _____	Analyst Initials: _____
H ₂ SO ₄ ID: _____	Na ₂ S ₂ O ₃ ID: _____	* pH must be adjusted between 9.3 - 9.7	
HCL ID: _____	Na ₂ SO ₃ ID: _____	Ammonia Buffer Sol'n ID: _____	
		5N NaOH ID: _____	

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Laboratory Order ID: 25H0034

Sample Conditions Checklist

Samples Received at:	5.60°C
How were samples received?	UPS
Were Custody Seals used?	Yes
Are the custody papers filled out completely and correctly?	No
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Metals (except Hg, B) do not require field preservation, but lab preservation may delay analysis. Field parameters performed by the lab are always received past holding time and will be noted as such.	Yes

Janet Frazier notified via email for the chain of custody was received without a turnaround time indicated, the sample has been logged for a standard 10 day turnaround time. HEG 8/4/25 0755



1941 Reymet Rd • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

Data Package Case Narrative

Laboratory ID No.: 25H0034

Client Name: Draper Aden Blacksburg

Submitted To: Janet Frazier

Date Received: July 31, 2025

Date Final Issue: 8/25/2025

On July 31, 2025, two waste water samples were received for analysis per the attached Chain-of-Custody Record (EA Lab ID #25H0034). The samples were received with sample containers intact by Ryan Johnson (EA). Upon laboratory receipt, no deviations, discrepancies or irregularities were observed in sample condition, including holding times, temperature, containers, or preservatives unless otherwise notated on the Chain-of-Custody or Sample Conditions Checklist.

The samples were prepared and analyzed in accordance with required methodology. QC results are presented in the attached QA/QC Data Package.

The samples were prepared and analyzed within the regulatory specified holding time. All criteria for initial and continuing calibration were met. No target analytes were detected in the method blanks. Laboratory control sample recoveries and acceptable QC limits are detailed within this report for each batch of samples. Method defined quality control analyses were performed with every batch of samples. Acceptable QC limits are detailed within this report for each batch of samples.

For questions or inquiries please contact your project manager.

A cross-reference of client sample ID vs. laboratory ID follows:

<u>Client Sample ID</u>	<u>Laboratory ID</u>
16C1	25H0034-01
16MW8	25H0034-02
16MW9	25H0034-03
16WC1A	25H0034-04
16WDUP	25H0034-05
16WC1B	25H0034-06

A summary of batch QC follows:

Analysis	Instrument ID	Batch ID	Sequence ID	Calibration ID
SVOC SW8270	MS-SV04	BIH0165	SIH0223	AG50329

1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

ANALYTICAL RESULTS

WORK ORDER NUMBER:

25H0034

Draper Aden Associates - Blacksburg

Project: HWMU 16

QA Data Package

Analysis Class: SVOA

Method:

SW8270E

Matrix: Non-Potable Water

Method: SW8270E

6 of 521

Client: Draper Aden Associates - Blacksburg

Project: HWMU. 16

Calibration:	AG50329	Instrument:	MS-SV04
		Calibration Date:	7/18/2025 8:00:18AM

[illegible]

7 of 521

Client: Draper Aden Associates - Blacksburg

Calibration:	AG50329	Instrument:	MS-SV04
		Calibration Date:	7/18/2025 8:00:18AM

[illegible]

8 of 521

Client: Draper Aden Associates - Blacksburg

Project: HWMU.16

Calibration:	AG50329	Instrument:	MS-SV04
		Calibration Date:	7/18/2025 8:00:18AM

[illegible]

INITIAL CALIBRATION DATA

9 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU.16

Calibration:	AG50329	Instrument:	MS-SV04
		Calibration Date:	7/18/2025 8:00:18AM

[illegible]

10 of 521

Project: HWMU.16

[illegible]

INITIAL CALIBRATION DATA (Continued)

11 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
1,1-Biphenyl												
1,2,4,5-Tetrachlorobenzene												
1,2,4-Trichlorobenzene					2.5	41.24554	5	42.61445	10	40.45642	20	40.42111
1,2-Dichlorobenzene					2.5	154.3677	5	160.3603	10	152.4536	20	151.5244
1,2-Dinitrobenzene					2.5	7.912036	5	12.43971	10	13.13348	20	14.99775
1,2-Diphenylhydrazine					2.5	116.2703	5	128.7969	10	118.0008	20	117.9329
1,3-Dichlorobenzene					2.5	161.8771	5	168.6287	10	160.156	20	159.8542
1,3-Dinitrobenzene					2.5	7.012796	5	14.85329	10	17.35638	20	21.70136
1,4-Dichlorobenzene					2.5	157.0302	5	164.1104	10	155.0373	20	155.8383
1,4-Dinitrobenzene					2.5	4.663038	5	10.0682	10	13.08543	20	18.43768
1,4-Dioxane												
1,4-Naphthoquinone												
1-Chloronaphthalene												
1-Methylnaphthalene	5	71.24031	10	72.19245	2.5	77.13403	5	81.82779	10	75.38966	20	73.97278
1-Naphthylamine												
2,3,4,6-Tetrachlorophenol					2.5	11.54956	5	20.9269	10	22.77612	20	30.66688
2,3,5,6-Tetrachlorophenol					2.5	8.635765	5	16.56616	10	20.09025	20	29.06995
2,4,5-Trichlorophenol					2.5	21.07308	5	28.97924	10	32.29733	20	38.53256
2,4,6-Trichlorophenol					2.5	21.56875	5	30.51346	10	33.28229	20	38.37235
2,4-Dichlorophenol					2.5	25.90349	5	31.60694	10	31.61535	20	33.54143
2,4-Dimethylphenol					2.5	33.7027	5	36.83787	10	35.31926	20	35.15035
2,4-Dinitrophenol					2.5	0.408931	5	0.8174901	10	1.75805	20	5.437603
2,4-Dinitrotoluene					2.5	15.46565	5	28.74555	10	32.58618	20	39.10288
2,6-Dichlorophenol												
2,6-Dinitrotoluene					2.5	18.16567	5	27.70887	10	29.72438	20	32.78412
2-Acetylaminofluorene												
2-Chloronaphthalene					2.5	121.9497	5	128.7828	10	122.2789	20	121.996
2-Chlorophenol					2.5	125.746	5	137.4041	10	132.6976	20	137.5546
2-Methylnaphthalene	5	81.0856	10	83.95716	2.5	73.09523	5	77.43543	10	72.82765	20	71.61398
2-Naphthylamine												
2-Nitroaniline					2.5	8.073262	5	15.78403	10	20.80072	20	26.59444

INITIAL CALIBRATION DATA (Continued)

12 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
2-Nitrophenol					2.5	6.429252	5	11.57079	10	14.38563	20	18.5288
2-Picoline												
3,3'-Dichlorobenzidine												
3,3'-Dimethylbenzidine												
3-Methylcholanthrene												
3-Nitroaniline					2.5	14.06615	5	23.46504	10	25.2029	20	29.77574
4,6-Dinitro-2-methylphenol					2.5	1.65052	5	3.274556	10	5.165346	20	11.93911
4-Aminobiphenyl												
4-Bromophenyl phenyl ether					2.5	24.51751	5	26.9425	10	26.97758	20	27.61766
4-Chloroaniline					2.5	38.41356	5	44.47675	10	43.66057	20	45.93904
4-Chlorophenyl phenyl ether					2.5	69.61623	5	73.30601	10	68.67029	20	70.15485
4-Nitroaniline					2.5	9.440362	5	16.14251	10	15.68697	20	20.64738
4-Nitrophenol					2.5	2.335473	5	5.55297	10	7.905071	20	12.94476
4-Nitroquinoline-1-oxide												
5-Nitro-o-toluidine												
7,12-Dimethylbenz (a) anthracene												
Acenaphthene	5	125.776	10	127.7827	2.5	118.816	5	123.0423	10	116.0847	20	113.0287
Acenaphthylene	5	191.6406	10	202.1079	2.5	193.7608	5	206.7612	10	195.5148	20	191.0131
Acetophenone												
alpha,alpha-Dimethyl phenethyl												
alpha-Terpineol												
Aniline					2.5	152.8077	5	178.3615	10	179.4854	20	184.2735
Anthracene	5	125.044	10	126.4623	2.5	115.338	5	125.2039	10	118.0512	20	115.005
Aramite												
Atrazine												
Benzaldehyde												
Benzidine												
Benzo (a) anthracene	5	125.8025	10	132.5638	2.5	134.8519	5	144.7375	10	136.535	20	135.6664
Benzo (a) pyrene	5	99.94003	10	108.5825	2.5	88.15279	5	102.3507	10	104.2711	20	110.4866
Benzo (b) fluoranthene	5	109.4985	10	111.1259	2.5	87.46209	5	106.1984	10	108.8853	20	119.6779
Benzo (g,h,i) perylene	5	101.4454	10	109.3952	2.5	80.48283	5	92.37679	10	92.86906	20	99.74638
Benzo (k) fluoranthene	5	132.0796	10	137.371	2.5	123.0801	5	133.9473	10	126.2794	20	120.9641

INITIAL CALIBRATION DATA (Continued)

13 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Benzoic acid					2.5	0.4753707	5	1.461331	10	3.066384	20	7.785218
Benzyl alcohol					2.5	62.09166	5	74.61603	10	75.73791	20	82.1843
bis (2-Chloroethoxy) methane					2.5	46.58929	5	49.15262	10	46.04594	20	44.50915
bis (2-Chloroethyl) ether					2.5	141.1976	5	141.1452	10	131.7936	20	128.783
2,2'-Oxybis (1-chloropropane)					2.5	50.51464	5	52.79482	10	49.5695	20	49.96476
bis (2-Ethylhexyl) adipate					2.5	15.0566	5	30.04381	10	39.99849	20	52.46165
bis (2-Ethylhexyl) phthalate					2.5	35.07797	5	60.41609	10	75.0759	20	92.21993
Butyl benzyl phthalate					2.5	16.16718	5	34.09571	10	45.83871	20	64.42084
Caprolactam												
Carbazole					2.5	92.07271	5	102.9565	10	96.93697	20	99.97733
Chlorobenzilate												
Chrysene	5	147.018	10	149.2061	2.5	131.6022	5	142.5517	10	131.2834	20	131.8503
Diallate												
Dibenz (a,h) anthracene	5	94.78481	10	96.04974	2.5	72.22645	5	85.57462	10	89.07555	20	98.44178
Dibenz (a,j) acridine												
Dibenzofuran					2.5	165.6426	5	174.3969	10	162.2354	20	163.2408
Diethyl phthalate					2.5	116.9803	5	138.3649	10	135.8622	20	140.3521
Dimethoate												
Dimethyl phthalate					2.5	131.75	5	146.9392	10	141.078	20	140.5499
Di-n-butyl phthalate					2.5	79.81951	5	119.4583	10	133.2264	20	133.34
Di-n-octyl phthalate					2.5	34.59494	5	68.48661	10	88.65381	20	123.0657
Diphenyl ether												
Disulfoton												
Ethyl methacrylate												
Ethyl methanesulfonate												
Ethyl parathion												
Famphur												
Fluoranthene	5	137.1984	10	137.7612	2.5	116.729	5	130.8754	10	121.2453	20	119.9072
Fluorene	5	131.9433	10	142.1694	2.5	134.3868	5	144.1872	10	134.9398	20	136.05
Hexachlorobenzene					2.5	32.25133	5	33.85484	10	32.82443	20	33.2242
Hexachlorobutadiene					2.5	24.73642	5	26.1893	10	25.2526	20	26.02657
Hexachlorocyclopentadiene					2.5	1.791395	5	4.463429	10	6.566542	20	12.42499

INITIAL CALIBRATION DATA (Continued)

14 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Hexachloroethane					2.5	51.46648	5	57.05681	10	57.45322	20	59.6616
Hexachloropropene												
Indeno (1,2,3-cd) pyrene	5	119.8006	10	121.7783	2.5	96.00902	5	111.0531	10	114.0057	20	124.8366
Isodrin												
Isophorone					2.5	71.42146	5	78.28715	10	75.10252	20	73.73157
Isosafrole												
Kepone												
m+p-Cresols					2.5	117.2842	5	126.5516	10	124.1819	20	124.2873
Methapyrilene												
Methyl methanesulfonate												
Methyl parathion												
Naphthalene	5	123.6429	10	123.1517	2.5	123.7317	5	126.058	10	116.985	20	111.6182
Nitrobenzene					2.5	97183.2	5	114179.6	10	102619.4	20	104579.5
n-Nitrosodiethylamine												
n-Nitrosodimethylamine					2.5	59018.8	5	63414	10	60521.5	20	63840.35
n-Nitrosodi-n-butylamine												
n-Nitrosodi-n-propylamine					2.5	63625.2	5	74309.2	10	66344.7	20	66902.95
n-Nitrosodiphenylamine					2.5	103.1677	5	116.9959	10	108.9694	20	114.5304
n-Nitrosomethylethylamine												
n-Nitrosomorpholine												
n-Nitrosopiperidine												
n-Nitrosopyrrolidine												
o,o,o-Triethyl phosphorothioate												
o,o-Diethyl o-2-pyrazinyl phosph												
o-Cresol					2.5	116.0081	5	120.8825	10	116.5616	20	117.4166
o-Toluidine												
p-(Dimethylamino) azobenzene												
p-Chloro-m-cresol					2.5	22.41793	5	28.7486	10	29.92311	20	32.80297
Pentachlorobenzene												
Pentachloroethane												
Pentachloronitrobenzene (quint)												
Pentachlorophenol					2.5	1.833821	5	3.913542	10	5.529414	20	10.9535

INITIAL CALIBRATION DATA (Continued)

15 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Phenacetin												
Phenanthrene	5	130.0382	10	128.2543	2.5	125.525	5	129.0812	10	121.1156	20	115.0737
Phenol					2.5	164.1305	5	175.9029	10	169.671	20	168.1596
Phorate												
p-Phenylenediamine												
Pronamide												
Pyrene	5	172.0024	10	177.3359	2.5	164.7692	5	182.0225	10	169.1844	20	164.143
Pyridine					2.5	116.7011	5	122.1523	10	126.1775	20	130.7351
Safrole												
Sulfotep												
Malathion												
Benzo (e) pyrene	5	105.7377	10	111.0383								
2,4,6-Tribromophenol (Surr)					2.5	5.303003	5	9.1327	10	10.96427	20	14.07584
2-Fluorobiphenyl (Surr)					2.5	163.0385	5	168.5703	10	162.0082	20	157.1786
2-Fluorophenol (Surr)					2.5	122.9131	5	135.22	10	135.8214	20	141.4969
Nitrobenzene-d5 (Surr)					2.5	96.80591	5	117.8152	10	121.6389	20	129.9371
Phenol-d5 (Surr)					2.5	143.1458	5	155.8627	10	152.7831	20	154.6415
p-Terphenyl-d14 (Surr)					2.5	128.3578	5	143.1438	10	131.7631	20	136.4743

INITIAL CALIBRATION DATA (Continued)

16 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
1,1-Biphenyl									2.5	162.8668	5	163.1194
1,2,4,5-Tetrachlorobenzene									2.5	42.13172	5	42.01117
1,2,4-Trichlorobenzene	40	36.339	80	33.89201	60	36.1781	100	32.31254				
1,2-Dichlorobenzene	40	137.0129	80	126.7756	60	140.3031	100	121.1513				
1,2-Dinitrobenzene	40	13.9108	80	14.23105	60	14.20047	100	13.56466				
1,2-Diphenylhydrazine	40	101.2973	80	84.78656	60	93.9786	100	78.57565				
1,3-Dichlorobenzene	40	144.6618	80	132.8166	60	147.1317	100	127.502				
1,3-Dinitrobenzene	40	20.96458	80	21.50296	60	21.25951	100	20.3969				
1,4-Dichlorobenzene	40	142.4057	80	129.7555	60	145.309	100	125.0212				
1,4-Dinitrobenzene	40	18.04863	80	18.3505	60	18.14542	100	17.1976				
1,4-Dioxane									2.5	48395.2	5	44027.2
1,4-Naphthoquinone									2.5	29.06124	5	33.44128
1-Chloronaphthalene									2.5	123.9632	5	123.759
1-Methylnaphthalene	40	65.06917	80	57.29015	60	62.32835	100	53.49759				
1-Naphthylamine									2.5	77.88931	5	88.88317
2,3,4,6-Tetrachlorophenol	40	30.82082	80	33.60835	60	32.45056	100	32.06363				
2,3,5,6-Tetrachlorophenol	40	29.79442	80	32.68301	60	31.46252	100	32.527				
2,4,5-Trichlorophenol	40	36.87488	80	37.69016	60	37.7286	100	35.06765				
2,4,6-Trichlorophenol	40	36.67936	80	37.49669	60	37.39684	100	35.27742				
2,4-Dichlorophenol	40	30.41502	80	29.65171	60	30.21115	100	27.83598				
2,4-Dimethylphenol	40	30.79677	80	28.75161	60	30.14484	100	26.99254				
2,4-Dinitrophenol	40	8.294914	80	13.53501	60	9.443726	100	13.18305				
2,4-Dinitrotoluene	40	36.84636	80	37.48238	60	37.66192	100	35.7972				
2,6-Dichlorophenol									2.5	26.20435	5	26.56349
2,6-Dinitrotoluene	40	30.79224	80	30.13942	60	31.00733	100	28.43344				
2-Acetylaminofluorene									2.5	14.81001	5	18.23166
2-Chloronaphthalene	40	107.5869	80	97.18268	60	104.4919	100	90.07208				
2-Chlorophenol	40	124.8224	80	117.3045	60	127.1472	100	112.5967				
2-Methylnaphthalene	40	62.94641	80	56.19065	60	60.24855	100	52.44987				
2-Naphthylamine									2.5	38.98301	5	39.83618
2-Nitroaniline	40	25.87593	80	24.72008	60	25.72438	100	22.69485				

INITIAL CALIBRATION DATA (Continued)

17 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
2-Nitrophenol	40	18.21541	80	18.54948	60	18.56427	100	17.64167				
2-Picoline									2.5	86.62631	5	89.70759
3,3'-Dichlorobenzidine												
3,3'-Dimethylbenzidine									2.5	35.49071	5	42.91815
3-Methylcholanthrene									2.5	45.91358	5	48.68769
3-Nitroaniline	40	27.68176	80	28.35897	60	27.61058	100	26.78005				
4,6-Dinitro-2-methylphenol	40	14.92434	80	19.79449	60	16.3318	100	19.35529				
4-Aminobiphenyl									2.5	73.88763	5	75.4177
4-Bromophenyl phenyl ether	40	25.61697	80	25.30752	60	26.80545	100	23.74038				
4-Chloroaniline	40	40.54837	80	37.66303	60	39.13624	100	35.15617				
4-Chlorophenyl phenyl ether	40	63.56995	80	60.36149	60	63.39974	100	56.692				
4-Nitroaniline	40	19.45047	80	21.12932	60	17.89094	100	19.98541				
4-Nitrophenol	40	13.85328	80	16.06768	60	14.29905	100	15.22294				
4-Nitroquinoline-1-oxide									2.5	0.7038809	5	0.7830026
5-Nitro-o-toluidine									2.5	16.50797	5	20.47641
7,12-Dimethylbenz (a) anthracene									2.5	44.17935	5	49.53355
Acenaphthene	40	100.3283	80	91.023	60	97.69681	100	83.77755				
Acenaphthylene	40	164.9825	80	143.1279	60	158.0228	100	130.2055				
Acetophenone									2.5	110.192	5	109.8344
alpha,alpha-Dimethyl phenethyl									2.5	8.550096	5	30.52655
alpha-Terpineol									2.5	18.93361	5	19.29285
Aniline	40	166.7323	80	156.3733	60	166.4081	100	147.8798				
Anthracene	40	97.74318	80	73.49545	60	91.97494	100	65.7355				
Aramite									2.5	2.420904	5	8.766719
Atrazine									2.5	56337.6	5	52868.8
Benzaldehyde									2.5	64.90539	5	65.86439
Benzidine												
Benzo (a) anthracene	40	119.6453	80	94.03358	60	113.8805	100	81.68408				
Benzo (a) pyrene	40	101.379	80	94.92296	60	102.7837	100	88.66602				
Benzo (b) fluoranthene	40	104.6605	80	101.6718	60	112.5697	100	99.52426				
Benzo (g,h,i) perylene	40	93.15215	80	95.15063	60	95.81833	100	92.7761				

INITIAL CALIBRATION DATA (Continued)

18 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Benzo (k) fluoranthene	40	111.805	80	84.00746	60	104.0349	100	69.74831				
Benzoic acid	40	11.57926	80	15.76245	60	13.51227	100	15.08481				
Benzyl alcohol	40	75.08148	80	73.50606	60	76.80874	100	69.24938				
bis (2-Chloroethoxy) methane	40	37.65785	80	33.01174	60	35.64641	100	30.535				
bis (2-Chloroethyl) ether	40	111.093	80	94.54851	60	109.1641	100	87.84016				
2,2'-Oxybis (1-chloropropane)	40	44.96501	80	42.03116	60	45.41973	100	39.9343				
bis (2-Ethylhexyl) adipate	40	50.43849	80	49.87267	60	54.50181	100	46.4146				
bis (2-Ethylhexyl) phthalate	40	84.32355	80	74.50066	60	86.15301	100	67.39661				
Butyl benzyl phthalate	40	60.89771	80	60.35099	60	65.35415	100	55.90915				
Caprolactam									2.5	6.183913	5	7.120081
Carbazole	40	86.45475	80	76.06818	60	82.62213	100	67.62858				
Chlorobenzilate									2.5	35.27066	5	41.63544
Chrysene	40	110.1907	80	78.93322	60	100.837	100	71.086				
Diallate									2.5	26.31794	5	27.3715
Dibenz (a,h) anthracene	40	92.85412	80	90.59645	60	93.82909	100	86.44633				
Dibenz (a,j) acridine									2.5	57.94059	5	63.50445
Dibenzofuran	40	143.5348	80	128.8895	60	138.9231	100	118.3047				
Diethyl phthalate	40	126.3553	80	115.1294	60	123.8543	100	105.6483				
Dimethoate												
Dimethyl phthalate	40	126.086	80	114.8641	60	123.2329	100	108.0812				
Di-n-butyl phthalate	40	109.5967	80	70.98005	60	94.93572	100	61.38299				
Di-n-octyl phthalate	40	124.2538	80	100.6296	60	130.5993	100	87.3209				
Diphenyl ether									2.5	90.22213	5	91.05563
Disulfoton												
Ethyl methacrylate									2.5	59.40464	5	60.13771
Ethyl methanesulfonate									2.5	54.08411	5	53.686
Ethyl parathion												
Famphur												
Fluoranthene	40	98.71347	80	68.89435	60	85.81081	100	59.67803				
Fluorene	40	121.3694	80	110.0867	60	117.7072	100	102.2038				
Hexachlorobenzene	40	30.50551	80	30.62462	60	32.12264	100	29.23013				

INITIAL CALIBRATION DATA (Continued)

19 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Hexachlorobutadiene	40	23.8938	80	22.55557	60	24.12232	100	21.56863				
Hexachlorocyclopentadiene	40	15.2633	80	20.55836	60	16.61801	100	19.28234				
Hexachloroethane	40	55.19581	80	52.45366	60	56.49668	100	49.70372				
Hexachloropropene									2.5	13.07998	5	13.10525
Indeno (1,2,3-cd) pyrene	40	116.5617	80	118.3968	60	120.2017	100	114.7754				
Isodrin									2.5	17.79404	5	18.5037
Isophorone	40	63.47579	80	58.57129	60	61.19979	100	55.08471				
Isosafrole									2.5	31.70086	5	31.92861
Kepone									2.5	10.1307	5	11.77284
m+p-Cresols	40	110.1943	80	105.6675	60	109.6351	100	100.2257				
Methapyrilene									2.5	23.58853	5	29.22884
Methyl methanesulfonate									2.5	44.01838	5	44.02263
Methyl parathion												
Naphthalene	40	94.15055	80	71.98526	60	87.04441	100	64.60126				
Nitrobenzene	40	81749.15	80	79119.42	60	76912.9	100	68416.12				
n-Nitrosodiethylamine									2.5	37.07794	5	37.53716
n-Nitrosodimethylamine	40	50826.52	80	50605.86	60	50464.04	100	46081.36				
n-Nitrosodi-n-butylamine									2.5	61948	5	57185.8
n-Nitrosodi-n-propylamine	40	53270.98	80	53333.61	60	51184.71	100	46423.82				
n-Nitrosodiphenylamine	40	103.1723	80	96.12428	60	101.0131	100	89.66154				
n-Nitrosomethylethylamine									2.5	33.12658	5	34.91048
n-Nitrosomorpholine									2.5	35.73621	5	36.09045
n-Nitrosopiperidine									2.5	37.23466	5	37.54318
n-Nitrosopyrrolidine									2.5	31.52776	5	32.87078
o,o,o-Triethyl phosphorothioate												
o,o-Diethyl o-2-pyrazinyl phosph												
o-Cresol	40	104.7691	80	96.3606	60	105.0266	100	90.32496				
o-Toluidine									2.5	118.2562	5	118.6587
p-(Dimethylamino) azobenzene									2.5	30.91054	5	35.50183
p-Chloro-m-cresol	40	30.02048	80	28.34454	60	29.39007	100	26.86421				
Pentachlorobenzene									2.5	60.95905	5	61.01374

INITIAL CALIBRATION DATA (Continued)

20 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Pentachloroethane									2.5	34.96769	5	36.02527
Pentachloronitrobenzene (quint)									2.5	10.54925	5	11.2101
Pentachlorophenol	40	12.65213	80	16.55814	60	14.71117	100	16.13555				
Phenacetin									2.5	18.01548	5	21.60153
Phenanthrene	40	98.43651	80	74.44759	60	92.20262	100	66.57469				
Phenol	40	146.0649	80	127.9965	60	143.7069	100	120.1807				
Phorate												
p-Phenylenediamine									2.5	9475.2	5	30179.4
Pronamide									2.5	33.80351	5	37.09522
Pyrene	40	134.9822	80	100.5671	60	122.1351	100	88.47416				
Pyridine	40	121.8082	80	111.5479	60	125.7864	100	111.0478				
Safrole									2.5	48.45543	5	50.42411
Sulfotep												
Malathion												
Benzo (e) pyrene												
2,4,6-Tribromophenol (Surr)	40	14.1399	80	16.94223	60	16.17963	100	16.34077				
2-Fluorobiphenyl (Surr)	40	135.0938	80	119.4181	60	131.7095	100	107.5544				
2-Fluorophenol (Surr)	40	128.7377	80	119.817	60	134.4613	100	116.975				
Nitrobenzene-d5 (Surr)	40	116.7866	80	112.1321	60	119.2175	100	105.6548				
Phenol-d5 (Surr)	40	135.0167	80	123.6051	60	135.2117	100	116.2978				
p-Terphenyl-d14 (Surr)	40	113.9157	80	91.52474	60	110.0269	100	77.28005				

21 of 521

Calibration Date: 7/18/2025 8:00:18AM

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22 of 521

Client: Draper Aden Associates - Blacksburg

Project: HWMU. 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

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23 of 521

Calibration Date: 7/18/2025 8:00:18AM

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INITIAL CALIBRATION DATA SHEET (Continued)

24 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Hexachloropropene	10	16.21253	20	17.21508	40	19.38554	60	20.63715	80	20.69282	100	24.77572
Indeno (1,2,3-cd) pyrene												
Isodrin	10	19.45625	20	16.94724	40	15.43636	60	14.4386	80	13.39448	100	16.6693
Isophorone												
Isosafrole	10	32.30438	20	31.49002	40	29.4023	60	29.20911	80	27.93311	100	34.23282
Kepone	10	12.39501	20	12.48697	40	10.45161	60	8.951217	80	7.209976	100	9.779797
m+p-Cresols												
Methapyrilene	10	40.61896	20	38.17412	40	35.69527	60	28.18288	80	24.20314	100	22.77742
Methyl methanesulfonate	10	44.10575	20	42.0605	40	41.07874	60	37.60561	80	34.42454	100	40.49696
Methyl parathion												
Naphthalene												
Nitrobenzene												
n-Nitrosodiethylamine	10	39.00109	20	37.74238	40	36.35155	60	35.29845	80	33.45126	100	43.5029
n-Nitrosodimethylamine												
n-Nitrosodi-n-butylamine	10	62640.9	20	56495.75	40	65609.85	60	65696.37	80	61885.15	100	48055.86
n-Nitrosodi-n-propylamine												
n-Nitrosodiphenylamine												
n-Nitrosomethylethylamine	10	35.71771	20	35.33078	40	34.13608	60	34.90522	80	33.27623	100	41.56109
n-Nitrosomorpholine	10	35.92819	20	33.99648	40	31.867	60	30.30886	80	27.6554	100	36.82929
n-Nitrosopiperidine	10	38.74649	20	37.69105	40	36.45321	60	35.91217	80	33.86792	100	44.52356
n-Nitrosopyrrolidine	10	35.0447	20	35.04205	40	35.42205	60	33.79254	80	31.49685	100	41.88293
o,o,o-Triethyl phosphorothioate												
o,o-Diethyl o-2-pyrazinyl phosph												
o-Cresol												
o-Toluidine	10	116.7383	20	108.8959	40	99.08519	60	90.62301	80	82.38128	100	105.7942
p-(Dimethylamino) azobenzene	10	38.91957	20	38.88692	40	35.4273	60	34.22411	80	31.23127	100	40.00673
p-Chloro-m-cresol												
Pentachlorobenzene	10	60.44987	20	59.08358	40	56.26696	60	55.96285	80	54.08881	100	68.0739

25 of 521

Calibration Date: 7/18/2025 8:00:18AM

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26 of 521

Calibration Date: 7/18/2025 8:00:18AM

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27 of 521

[illegible]

28 of 521

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

29 of 521

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

30 of 521

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

31 of 521

Client: Draper Aden Associates - Black

Project: HWMU. 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

32 of 521

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

INITIAL CALIBRATION DATA SHEET (Continued)

33 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
		RF		RF		RF		RF		RF		RF
Benzo (k) fluoranthene												
Benzoic acid												
Benzyl alcohol												
bis (2-Chloroethoxy) methane												
bis (2-Chloroethyl) ether												
2,2'-Oxybis (1-chloropropane)												
bis (2-Ethylhexyl) adipate												
bis (2-Ethylhexyl) phthalate												
Butyl benzyl phthalate												
Caprolactam												
Carbazole												
Chlorobenzilate												
Chrysene												
Diallate												
Dibenz (a,h) anthracene												
Dibenz (a,j) acridine												
Dibenzofuran												
Diethyl phthalate												
Dimethoate					2.5	6.173878	5	12.14104	10	18.24328	20	22.86968
Dimethyl phthalate												
Di-n-butyl phthalate												
Di-n-octyl phthalate												
Diphenyl ether												
Disulfoton					2.5	27.00957	5	35.79781	10	42.36639	20	36.65758
Ethyl methacrylate												
Ethyl methanesulfonate												
Ethyl parathion					2.5	4.311756	5	9.151913	10	13.64892	20	15.35344
Famphur					2.5	20.04572	5	37.11058	10	54.31359	20	56.11643
Fluoranthene												
Fluorene												
Hexachlorobenzene					0.05	28.82343	0.1	31.01999	0.2	37.12966	0.4	33.36381

34 of 521

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

35 of 521

Client: Draper Aden Associates - Black

Project: HWMU.16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

36 of 521

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

37 of 521

Client: Draper Aden Associates - Black

Project: HWMU.16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

INITIAL CALIBRATION DATA SHEET (Continued)

38 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
		RF		RF		RF		RF		RF		RF
Benzo (k) fluoranthene												
Benzoic acid												
Benzyl alcohol												
bis (2-Chloroethoxy) methane												
bis (2-Chloroethyl) ether												
2,2'-Oxybis (1-chloropropane)												
bis (2-Ethylhexyl) adipate												
bis (2-Ethylhexyl) phthalate												
Butyl benzyl phthalate												
Caprolactam												
Carbazole												
Chlorobenzilate												
Chrysene												
Diallate												
Dibenz (a,h) anthracene												
Dibenz (a,j) acridine												
Dibenzofuran												
Diethyl phthalate												
Dimethoate	40	23.17609	60	24.71131	80	23.40003	100	21.82388				
Dimethyl phthalate												
Di-n-butyl phthalate												
Di-n-octyl phthalate												
Diphenyl ether												
Disulfoton	40	31.25098	60	30.09874	80	28.42218	100	26.1538				
Ethyl methacrylate												
Ethyl methanesulfonate												
Ethyl parathion	40	14.56004	60	14.67845	80	13.63283	100	12.45439				
Famphur	40	54.19457	60	54.80767	80	51.47587	100	48.94541				
Fluoranthene												
Fluorene												
Hexachlorobenzene	0.8	31.7177	1.2	33.70243	1.6	32.83092	2	31.30669				

39 of 521

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

40 of 521

Calibration Date: 7/18/2025 8:00:18AM

[illegible]

INITIAL CALIBRATION DATA (Continued)

41 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	141.4984	13.49064				
1,2,4,5-Tetrachlorobenzene	40.22444	6.770661				
1,2,4-Trichlorobenzene	37.9324	9.913556				
1,2-Dichlorobenzene	142.9936	9.806177				
1,2-Dinitrobenzene	13.04874	16.96309				
1,2-Diphenylhydrazine	104.9549	17.16378				
1,3-Dichlorobenzene	150.3285	9.820516				
1,3-Dinitrobenzene	18.13097	28.12531	0.9981606			
1,4-Dichlorobenzene	146.8134	9.424799			CCC (25)	
1,4-Dinitrobenzene	14.74956	34.51362	0.9969568			
1,4-Dioxane	39753.98	15.42628				
1,4-Naphthoquinone	33.7814	16.28928				
1-Chloronaphthalene	112.9325	9.812817				
1-Methylnaphthalene	69.16535	10.58639				
1-Naphthylamine	87.49258	8.494236				
2,3,4,6-Tetrachlorophenol	26.85785	28.85235	0.9986209			
2,3,5,6-Tetrachlorophenol	25.10363	35.62739	0.999347			
2,4,5-Trichlorophenol	33.53044	17.8557				
2,4,6-Trichlorophenol	33.82339	16.52379			CCC (25)	
2,4-Dichlorophenol	30.09763	7.888503			CCC (25)	
2,4-Dimethylphenol	32.21199	10.96974				
2,4-Dinitrophenol	5.150357	74.36989	0.9921331		SPCC ()	
2,4-Dinitrotoluene	32.96101	23.70657	0.9982189			
2,6-Dichlorophenol	27.80058	7.842045				
2,6-Dinitrotoluene	28.59443	15.72005				
2-Acetylaminofluorene	36.04838	37.17818	0.9966877			
2-Chloronaphthalene	111.7926	12.47804				
2-Chlorophenol	126.9091	7.04675				
2-Methylnaphthalene	71.57006	13.4775				
2-Naphthylamine	38.56364	6.947476				
2-Nitroaniline	21.28346	30.12728	0.9921173			

INITIAL CALIBRATION DATA (Continued)

42 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
2-Nitrophenol	15.48566	28.75313	0.9980162		CCC (25)	*
2-Picoline	81.02199	7.476986				
3,3'-Dichlorobenzidine	34.09379	32.59316	0.9954412			
3,3'-Dimethylbenzidine	43.0964	19.55826				
3-Methylcholanthrene	55.90993	14.45926				
3-Nitroaniline	25.36765	19.54791				
4,6-Dinitro-2-methylphenol	10.32703	56.49864	0.9969711			
4-Aminobiphenyl	66.68284	15.56111				
4-Bromophenyl phenyl ether	25.9407	5.255686				
4-Chloroaniline	40.62422	9.214354				
4-Chlorophenyl phenyl ether	65.72132	8.555783				
4-Nitroaniline	17.54667	21.89121	0.99396			
4-Nitrophenol	11.02265	46.08635	0.9966606		SPCC ()	
4-Nitroquinoline-1-oxide	6.345344	35.65963	0.988902			
5-Nitro-o-toluidine	26.44258	21.52842	0.9992534			
7,12-Dimethylbenz (a) anthracene	56.64473	15.63687				
Acenaphthene	115.6824	12.61094			CCC (25)	
Acenaphthylene	164.3588	19.07898				
Acetophenone	101.5678	10.37275				
alpha,alpha-Dimethyl phenethylamine	83.40236	56.21626	0.9913805			
alpha-Terpineol	18.28034	8.10726				
Aniline	166.5402	8.062366				
Anthracene	106.9532	14.97366				
Aramite	8.736794	45.50105	0.8395314			
Atrazine	55935.17	9.721716				
Benzaldehyde	59.10445	11.49213				
Benzidine	45.76901	50.54398	0.9961452			
Benzo (a) anthracene	140.0542	40.30663				
Benzo (a) pyrene	79.86335	30.20719	0.9949184		CCC (25)	*
Benzo (b) fluoranthene	91.32467	25.8967				
Benzo (g,h,i) perylene	84.50899	22.90109				

INITIAL CALIBRATION DATA (Continued)

43 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Benzo (k) fluoranthene	109.6477	21.66897				
Benzoic acid	11.13173	43.85974	0.9942204			
Benzyl alcohol	73.65944	8.001037				
bis (2-Chloroethoxy) methane	40.3935	17.39753				
bis (2-Chloroethyl) ether	118.1956	17.41379				
2,2'-Oxybis (1-chloropropane)	46.89924	9.62024				
bis (2-Ethylhexyl) adipate	42.34851	32.06021	0.9908531			
bis (2-Ethylhexyl) phthalate	72.53816	26.82716	0.9871176			
Butyl benzyl phthalate	50.3793	34.52971	0.9907682			
Caprolactam	9.712112	25.52773	0.9949642			
Carbazole	88.08964	13.91806				
Chlorobenzilate	45.02885	12.95398				
Chrysene	131.9259	16.13608				
Diallate	25.95529	10.73038				
Dibenz (a,h) anthracene	76.02293	29.80156				
Dibenz (a,j) acridine	72.40876	12.3345	0.9984061			
Dibenzofuran	149.396	13.33153				
Diethyl phthalate	125.3183	9.869705				
Dimethoate	19.0674	34.58787	0.9940684			
Dimethyl phthalate	129.0727	10.50843				
Di-n-butyl phthalate	111.7294	19.16968				
Di-n-octyl phthalate	94.94236	40.25303	0.9990144		CCC (25)	*
Diphenyl ether	82.83121	9.757637				
Disulfoton	32.21963	17.37008				
Ethyl methacrylate	59.17898	7.637583				
Ethyl methanesulfonate	51.4255	9.102565				
Ethyl parathion	12.22397	30.51289	0.9886492			
Famphur	47.12623	26.56805	0.9947379			
Fluoranthene	108.6768	20.77069				
Fluorene	120.0614	14.40369			CCC (25)	
Hexachlorobenzene	32.15827	6.243396				

INITIAL CALIBRATION DATA (Continued)

44 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Hexachlorobutadiene	24.29315	6.664405			CCC (25)	
Hexachlorocyclopentadiene	12.12105	58.24154	0.9888152		SPCC ()	
Hexachloroethane	54.936	6.201434				
Hexachloropropene	17.18976	18.92621				
Indeno (1,2,3-cd) pyrene	97.85816	28.86934				
Isodrin	16.58	12.40913				
Isophorone	67.10928	12.80475				
Isosafrole	31.02515	6.549945				
Kepone	11.41821	23.04632	0.8830162			
m+p-Cresols	114.7535	8.499963				
Methapyrilene	34.38001	15.93067				
Methyl methanesulfonate	40.97664	8.455382				
Methyl parathion	17.89142	36.52019	0.9926339			
Naphthalene	119.3478	17.04571				
Nitrobenzene	90594.91	17.8416				
n-Nitrosodiethylamine	37.49534	7.878404				
n-Nitrosodimethylamine	55596.55	12.34197				
n-Nitrosodi-n-butylamine	59939.71	9.790665				
n-Nitrosodi-n-propylamine	59424.4	16.27689			SPCC ()	
n-Nitrosodiphenylamine	104.2043	8.750843				
n-Nitrosomethylethylamine	35.37052	7.542335				
n-Nitrosomorpholine	33.55148	9.816002				
n-Nitrosopiperidine	37.74653	8.215466				
n-Nitrosopyrrolidine	34.63496	9.564168				
o,o,o-Triethyl phosphorothioate	35.49713	18.97249				
o,o-Diethyl o-2-pyrazinyl phosphorothioate	26.13381	23.02925	0.9948178			
o-Cresol	108.4188	10.21045				
o-Toluidine	105.0541	12.81723				
p-(Dimethylamino) azobenzene	35.63853	9.733985				
p-Chloro-m-cresol	28.56399	10.53315			CCC (25)	
Pentachlorobenzene	59.48734	7.279104				

INITIAL CALIBRATION DATA (Continued)

45 of 521

SW8270E

Client: Draper Aden Associates - Black

Project: HWMU 16

Calibration: AG50329

Instrument: MS-SV04

Calibration Date: 7/18/2025 8:00:18AM

COMPOUND	Mean RF	RF RSD	Linear r	Quad COD	LIMIT	Q
Pentachloroethane	34.98925	6.950051				
Pentachloronitrobenzene (quintozene)	11.92977	9.315649				
Pentachlorophenol	11.49335	43.82311	0.9949326		CCC (25)	*
Phenacetin	28.47645	21.62997	0.9996573			
Phenanthrene	120.8841	15.11117				
Phenol	151.9766	13.58664			CCC (25)	
Phorate	39.05171	15.56334				
p-Phenylenediamine	45475.72	40.53761	0.8943624			
Pronamide	38.55093	9.682305				
Pyrene	143.3391	21.26294				
Pyridine	120.7445	5.879738				
Safrole	49.82464	6.942347				
Sulfotep	12.70078	14.09559				
Malathion	33121.02	29.29354	0.962965			
Benzo (e) pyrene	85.42648	22.29012				
2,4,6-Tribromophenol (Surr)	12.88479	31.79836	0.9974269			
2-Fluorobiphenyl (Surr)	143.0714	15.89507				
2-Fluorophenol (Surr)	129.4303	6.759435				
Nitrobenzene-d5 (Surr)	114.9985	8.835509				
Phenol-d5 (Surr)	139.5705	10.54464				
p-Terphenyl-d14 (Surr)	116.5608	19.7054				

* Values outside of QC limits

Analysis Sequence

SIG1011

Printed: 07/24/2025 2:57 pm



Department: SV-MS
Instrument: MS-SV04
Calibration ID: AG50329

Sequence Date: 07/18/2025

Lab Number	Cont	Sample Name	Order	Source	STD ID	ISTD ID	Client	Comments Log Extraction
SIG1011-TUN1		MS Tune	1	-	5F04329			
SIG1011-CAL1		Cal Standard	2	-	5G03642	5B04321		
SIG1011-CAL2		Cal Standard	3	-	5G03643	5B04321		
SIG1011-CAL3		Cal Standard	4	-	5G03644	5B04321		
SIG1011-CAL4		Cal Standard	5	-	5G03645	5B04321		
SIG1011-CAL5		Cal Standard	6	-	5G03646	5B04321		
SIG1011-CAL6		Cal Standard	7	-	5G03647	5B04321		
SIG1011-CAL7		Cal Standard	8	-	5G03648	5B04321		
SIG1011-CAL8		Cal Standard	9	-	5G03649	5B04321		
SIG1011-CAL9		Cal Standard	10	-	5B03775	5B04321		
SIG1011-CALA		Cal Standard	11	-	5B03776	5B04321		
SIG1011-CALB		Cal Standard	12	-	5B03777	5B04321		
SIG1011-CALC		Cal Standard	13	-	5B03778	5B04321		
SIG1011-CALD		Cal Standard	14	-	5E04791	5B04321		
SIG1011-CALE		Cal Standard	15	-	5B03780	5B04321		
SIG1011-CALF		Cal Standard	16	-	5B03781	5B04321		
SIG1011-CALG		Cal Standard	17	-	5B03782	5B04321		
SIG1011-ICV2		Initial Cal Check	18	-	5C04495	5B04321		
SIG1011-TUN2		MS Tune	19	-	5F04329			
SIG1011-CALI		Cal Standard	20	-	5G03623	5B04321		
SIG1011-CALJ		Cal Standard	21	-	5G03624	5B04321		
SIG1011-CALK		Cal Standard	22	-	5G03625	5B04321		

Analysis Sequence

SIG1011

(Continued)

Printed: 07/24/2025 2:57 pm



Department: SV-MS
Instrument: MS-SV04
Calibration ID: AG50329

Sequence Date: 07/18/2025

Lab Number	Cont	Sample Name	Order	Source	STD ID	ISTD ID	Client	Comments Log Extraction
SIG1011-CALL		Cal Standard	23	-	5G03626	5B04321		
SIG1011-CALM		Cal Standard	24	-	5G03627	5B04321		
SIG1011-CALN		Cal Standard	25	-	5G03628	5B04321		
SIG1011-CALO		Cal Standard	26	-	5G03629	5B04321		
SIG1011-ICV3		Initial Cal Check	27	-	5C04496	5B04321		
SIG1011-CALP		Cal Standard	28	-	5G03650	5B04321		
SIG1011-CALQ		Cal Standard	29	-	5G03651	5B04321		
SIG1011-CALR		Cal Standard	30	-	5G03652	5B04321		
SIG1011-CALS		Cal Standard	31	-	5G03653	5B04321		
SIG1011-CALT		Cal Standard	32	-	5G03654	5B04321		
SIG1011-CALU		Cal Standard	33	-	5G03655	5B04321		
SIG1011-CALV		Cal Standard	34	-	5G03656	5B04321		
SIG1011-CALW		Cal Standard	35	-	5G03657	5B04321		
SIG1011-ICV4		Initial Cal Check	36	-	5F02927	5B04321		
SIG1011-TUN3		MS Tune	37	-	5F04329			
SIG1011-ICV1		Initial Cal Check	38	-	5C04494	5B04321		
SIG1011-CALH		Cal Standard	39	-	5G03622	5B04321		

Method Path : C:\GCMS\1\methods\
 Method File : MS-SV04_250718SV.M
 Title : Semivolatile Primary Quant method (8270 and 625)
 Last Update : Wed Jul 23 10:30:03 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =MS-SV04_25071807.D 5 =MS-SV04_25071808.D 10 =MS-SV04_25071809.D 20 =MS-SV04_25071810.D 40 =MS-SV04_25071811.D
 60 =MS-SV04_25071812.D
 80 =MS-SV04_25071813.D 100 =MS-SV04_25071814.D

Compound	2.5	5	10	20	40	60	80	100	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) T Pyridine	1.167	1.222	1.262	1.307	1.218	1.258	1.115	1.110	1.207	5.88
3) T N-Nitrosodimet...	0.670	0.696	0.714	0.756	0.680	0.703	0.630	0.614	0.683	6.71
4) S 2-Fluorophenol	1.229	1.352	1.358	1.415	1.287	1.345	1.198	1.170	1.294	6.76
5) S Phenol-d5	1.431	1.559	1.528	1.546	1.350	1.352	1.236	1.163	1.396	10.54
6) T Aniline	1.528	1.784	1.795	1.843	1.667	1.664	1.564	1.479	1.665	8.06
7) M Phenol	1.641	1.759	1.697	1.682	1.461	1.437	1.280	1.202	1.520	13.59
8) T Bis (2-chloroe...	1.412	1.411	1.318	1.288	1.111	1.092	0.945	0.878	1.182	17.41
9) M 2-Chlorophenol	1.257	1.374	1.327	1.376	1.248	1.271	1.173	1.126	1.269	7.05
10) T 1,3-Dichlorobe...	1.619	1.686	1.602	1.599	1.447	1.471	1.328	1.275	1.503	9.82
11) M 1,4-Dichlorobe...	1.570	1.641	1.550	1.558	1.424	1.453	1.298	1.250	1.468	9.42
12) T Benzyl alcohol	0.621	0.746	0.757	0.822	0.751	0.768	0.735	0.692	0.737	8.00
13) T 1,2-Dichlorobe...	1.544	1.604	1.525	1.515	1.370	1.403	1.268	1.212	1.430	9.81
14) T o-Cresol	1.160	1.209	1.166	1.174	1.048	1.050	0.964	0.903	1.084	10.21
15) T Bis (2-chloroi...	0.505	0.528	0.496	0.500	0.450	0.454	0.420	0.399	0.469	9.62
16) T p-Cresol	1.173	1.266	1.242	1.243	1.102	1.096	1.057	1.002	1.148	8.50
17) MP N-nitrosodi-n-...	0.722	0.815	0.783	0.792	0.713	0.713	0.664	0.618	0.728	9.21
18) T Hexachloroethane	0.515	0.571	0.575	0.597	0.552	0.565	0.525	0.497	0.549	6.20
19) S Nitrobenzene-d5	0.968	1.178	1.216	1.299	1.168	1.192	1.121	1.057	1.150	8.84
20) T Nitrobenzene	1.103	1.253	1.211	1.239	1.094	1.072	0.985	0.911	1.108	11.00
21) I Naphthalene-d8	-----ISTD-----									
22) T Isophorone	0.714	0.783	0.751	0.737	0.635	0.612	0.586	0.551	0.671	12.80
23) T 2-Nitrophenol	0.064	0.116	0.144	0.185	0.182	0.186	0.185	0.176	0.155	28.75
24) T 2,4-Dimethylph...	0.337	0.368	0.353	0.352	0.308	0.301	0.288	0.270	0.322	10.97
25) T Bis (2-chloroe...	0.466	0.492	0.460	0.445	0.377	0.356	0.330	0.305	0.404	17.40
26) T 2,4-Dichloroph...	0.259	0.316	0.316	0.335	0.304	0.302	0.297	0.278	0.301	7.89
27) M 1,2,4-Trichlor...	0.412	0.426	0.405	0.404	0.363	0.362	0.339	0.323	0.379	9.91
28) T Benzoic acid			0.031	0.078	0.116	0.135	0.158	0.151	0.111	43.86
29) T Naphthalene	1.237	1.261	1.170	1.116	0.942	0.870	0.720		1.045	19.57
30) T 4-Chloroaniline	0.384	0.445	0.437	0.459	0.405	0.391	0.377	0.352	0.406	9.21
31) P Hexachlorobuta...	0.247	0.262	0.253	0.260	0.239	0.241	0.226	0.216	0.243	6.66
32) M p-Chloro-m-cresol	0.224	0.287	0.299	0.328	0.300	0.294	0.283	0.269	0.286	10.53
33) T 2-Methylnaphth...	0.731	0.774	0.728	0.716	0.629	0.602	0.562	0.524	0.659	13.84
34) T 1-Methylnaphth...	0.771	0.818	0.754	0.740	0.651	0.623	0.573	0.535	0.683	14.95

Method Path : C:\GCMS\1\methods\

Method File : MS-SV04_250718SV.M

Title : Semivolatiles Primary Quant method (8270 and 625)

35) T	Hexachlorocycl...	0.045	0.066	0.124	0.153	0.166		0.111	48.26
-------	-------------------	-------	-------	-------	-------	-------	--	-------	-------

36) I	Acenaphthene-d10	-----ISTD-----									
37) T	2,4,6-Trichlor...	0.216	0.305	0.333	0.384	0.367	0.374	0.375	0.353	0.338	16.52
38) T	2,4,5-Trichlor...	0.211	0.290	0.323	0.385	0.369	0.377	0.377	0.351	0.335	17.86
39) S	2-Fluorobiphenyl	1.630	1.686	1.620	1.572	1.351	1.317	1.194	1.076	1.431	15.90
40) T	2-Chloronaphth...	1.219	1.288	1.223	1.220	1.076	1.045	0.972	0.901	1.118	12.48
41) T	2-Nitroaniline	0.081	0.158	0.208	0.266	0.259	0.257	0.247	0.227	0.213	30.13
42) T	1,4-Dinitroben...	0.047	0.101	0.131	0.184	0.180	0.181	0.184	0.172	0.147	34.51
43) T	1,2-Dinitroben...	0.079	0.124	0.131	0.150	0.139	0.142	0.142	0.136	0.130	16.96
44) T	Dimethyl phtha...	1.318	1.469	1.411	1.405	1.261	1.232	1.149	1.081	1.291	10.51
45) T	Acenaphthylene	1.938	2.068	1.955	1.910	1.650	1.580	1.431	1.302	1.729	16.08
46) T	2,6-Dinitrotol...	0.182	0.277	0.297	0.328	0.308	0.310	0.301	0.284	0.286	15.72
47) T	1,3-Dinitroben...	0.070	0.149	0.174	0.217	0.210	0.213	0.215	0.204	0.181	28.13
48) T	3-Nitroaniline	0.141	0.235	0.252	0.298	0.277	0.276	0.284	0.268	0.254	19.55
49) M	Acenaphthene	1.188	1.230	1.161	1.130	1.003	0.977	0.910	0.838	1.055	13.52
50) T	2,4-Dinitrophenol	0.008	0.018	0.054	0.083	0.094			0.052		74.37
51) T	Dibenzofuran	1.656	1.744	1.622	1.632	1.435	1.389	1.289	1.183	1.494	13.33
52) MP	4-Nitrophenol	0.023	0.056	0.079	0.129	0.139	0.143	0.161	0.152	0.110	46.09
53) M	2,4-Dinitrotol...	0.155	0.287	0.326	0.391	0.368	0.377	0.375	0.358	0.330	23.71
54) T	2,3,5,6-Tetrac...	0.086	0.166	0.201	0.291	0.298	0.315	0.327	0.325	0.251	35.63
55) T	2,3,4,6-Tetrac...	0.115	0.209	0.228	0.307	0.308	0.325	0.336	0.321	0.269	28.85
56) T	Diethyl phthalate	1.170	1.384	1.359	1.404	1.264	1.239	1.151	1.056	1.253	9.87
57) T	Fluorene	1.344	1.442	1.349	1.361	1.214	1.177	1.101	1.022	1.251	11.64
58) T	4-Chlorophenyl...	0.696	0.733	0.687	0.702	0.636	0.634	0.604	0.567	0.657	8.56
59) T	4-Nitroaniline	0.094	0.161	0.157	0.206	0.195	0.179	0.211	0.200	0.175	21.89
60) T	4,6-Dinitro-2-...	0.033	0.052	0.119	0.149	0.163			0.103		56.50
61) T	N-Nitrosodiphe...	1.032	1.170	1.090	1.145	1.032	1.010	0.961	0.897	1.042	8.75
62) T	Azobenzene	1.163	1.288	1.180	1.179	1.013	0.940	0.848	0.786	1.050	17.16

63) I	Phenanthrene-d10	-----ISTD-----									
64) S	2,4,6-Tribromo...	0.053	0.091	0.110	0.141	0.141	0.162	0.169	0.163	0.129	31.80
65) T	4-Bromophenyl ...	0.245	0.269	0.270	0.276	0.256	0.268	0.253	0.237	0.259	5.26
66) T	Hexachlorobenzene	0.323	0.339	0.328	0.332	0.305	0.321	0.306	0.292	0.318	4.93
67) M	Pentachlorophenol	0.039	0.055	0.110	0.127	0.147	0.166	0.161	0.115		43.82
68) T	Phenanthrene	1.255	1.291	1.211	1.151	0.984	0.922	0.744	1.080		18.68
69) T	Anthracene	1.153	1.252	1.181	1.150	0.977	0.920	0.735	1.053		17.34
70) T	Carbazole	0.921	1.030	0.969	1.000	0.865	0.826	0.761	0.676	0.881	13.92
71) T	Di-n-butyl pht...	0.798	1.195	1.332	1.333	1.096	0.949		1.117		19.17
72) T	Fluoranthene	1.167	1.309	1.212	1.199	0.987	0.858		1.122		14.85

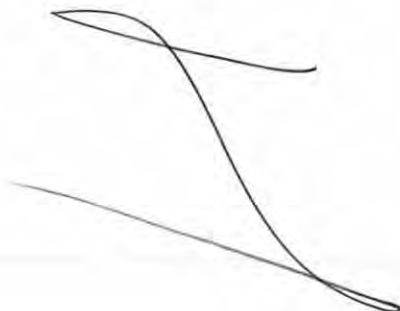
73) I	Chrysene-d12	-----ISTD-----									
74) M	Pyrene	1.648	1.820	1.692	1.641	1.350	1.221	1.006	1.483		19.93
75) S	p-Terphenyl-d14	1.284	1.431	1.318	1.365	1.139	1.100	0.915	0.773	1.166	19.71
76) T	Butyl benzyl p...	0.162	0.341	0.458	0.644	0.609	0.654	0.604	0.559	0.504	34.53
77) T	Bis (2-ethylhe...	0.151	0.300	0.400	0.525	0.504	0.545	0.499	0.464	0.423	32.06

Method Path : C:\GCMS\1\methods\

Method File : MS-SV04_250718SV.M

Title : Semivolatile Primary Quant method (8270 and 625)

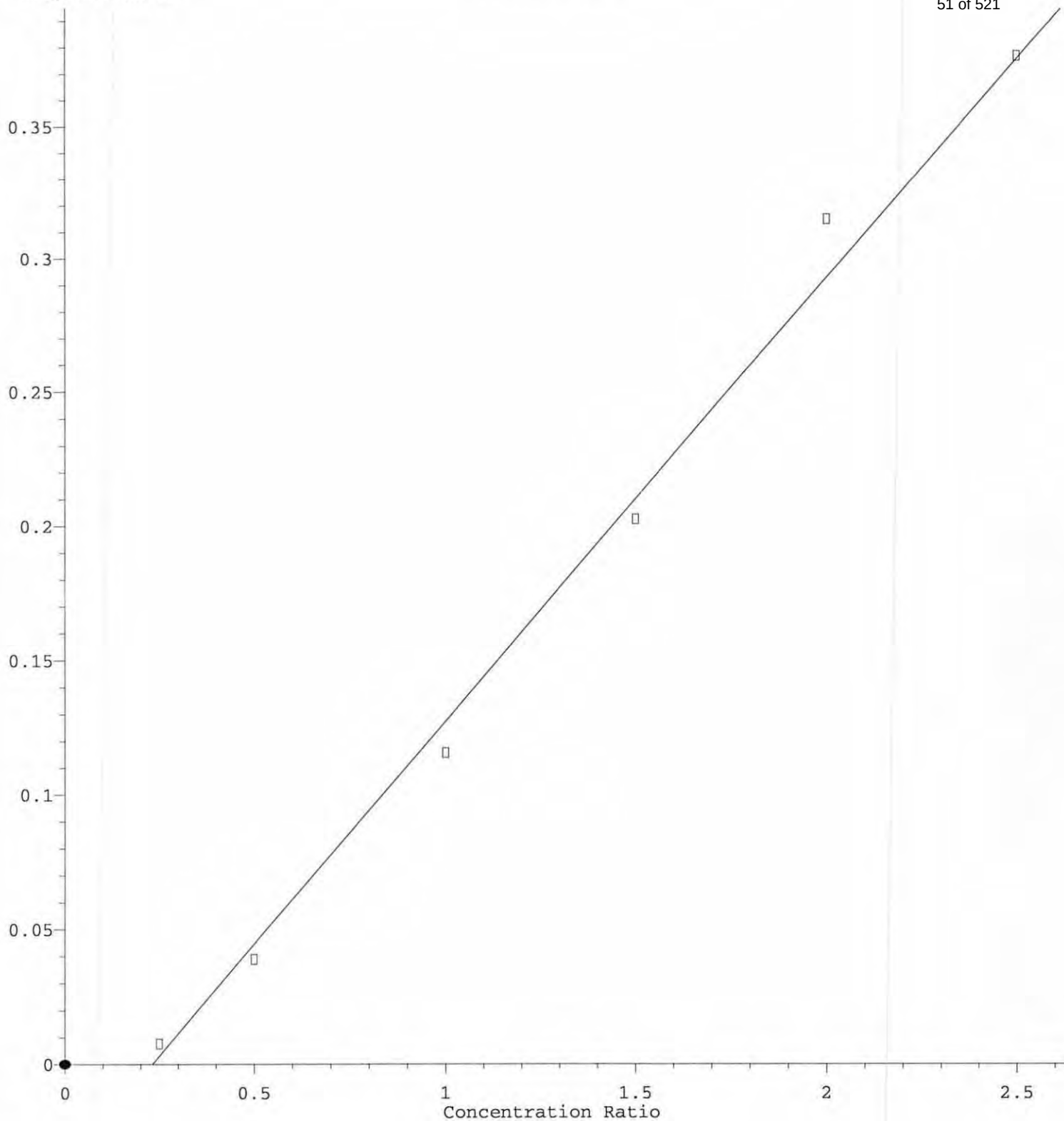
78) T	Benzo (a) anth...	1.349	1.447	1.365	1.357	1.196	1.139	0.940	0.817	1.201	18.70
79) T	Chrysene	1.316	1.426	1.313	1.319	1.102	1.008	0.789		1.182	19.04
80) T	Bis (2-ethylhe...	0.351	0.604	0.751	0.922	0.843	0.862	0.745		0.725	26.83
81) I	Perylene-d12	-----ISTD-----									
82) T	Di-n-octyl pht...	0.346	0.685	0.887	1.231	1.243	1.306			0.949	40.25
83) T	Benzo (b) fluo...	0.875	1.062	1.089	1.197	1.047	1.126	1.017	0.995	1.051	9.09
84) T	Benzo (k) fluo...	1.231	1.339	1.263	1.210	1.118	1.040	0.840		1.149	14.56
85) T	Benzo (a) pyrene	0.882	1.024	1.043	1.105	1.014	1.028	0.949	0.887	0.991	7.92
86) T	Indeno (1,2,3-...	0.960	1.111	1.140	1.248	1.166	1.202	1.184	1.148	1.145	7.48
87) T	Dibenz (a,h) a...	0.722	0.856	0.891	0.984	0.929	0.938	0.906	0.864	0.886	8.83
88) T	Benzo (g,h,i) ...	0.805	0.924	0.929	0.997	0.932	0.958	0.952	0.928	0.928	5.97

(#) = Out of Range

Benzoic acid

Response Ratio

51 of 521



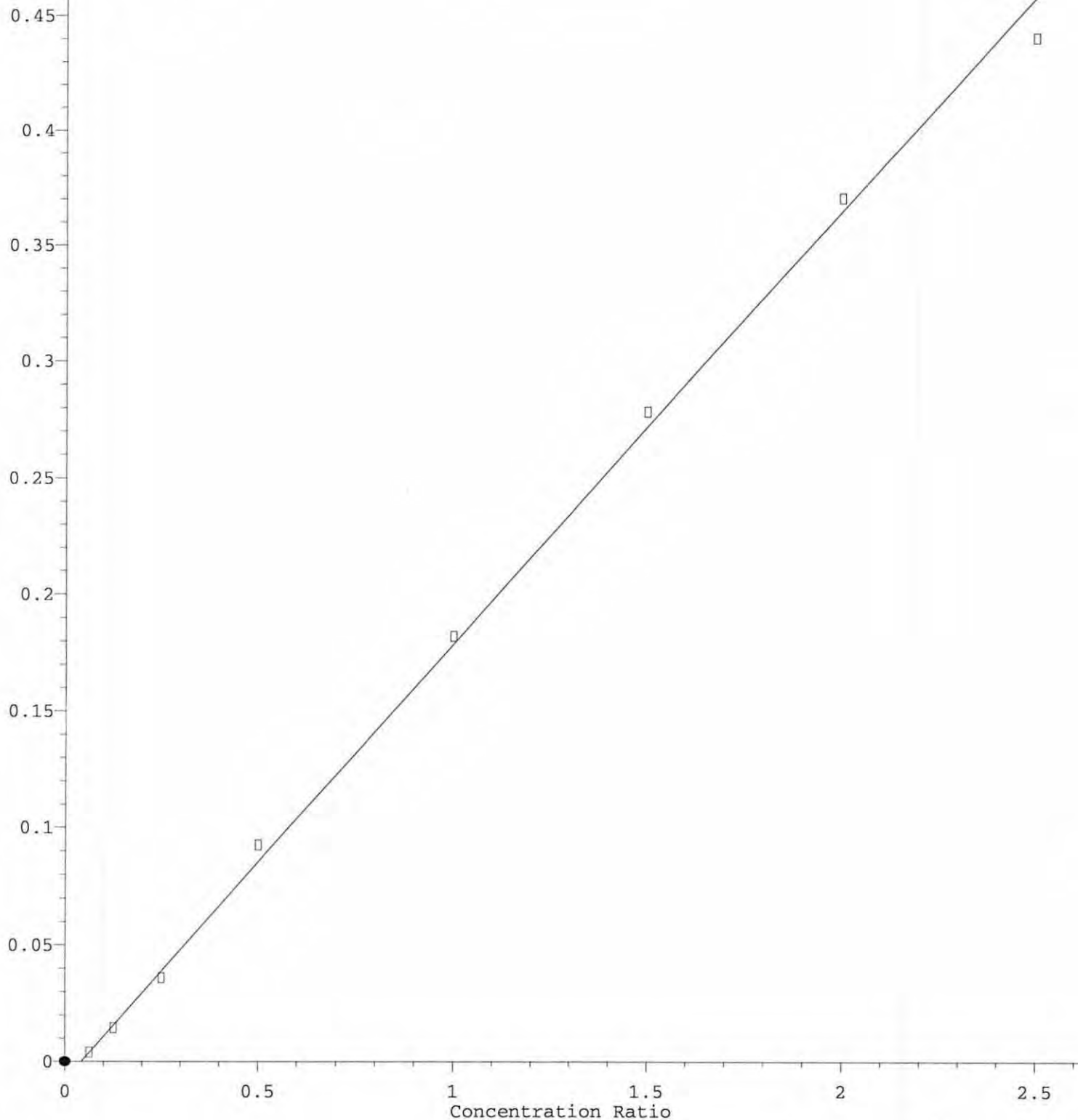
H

Response = $1.662 \times 10^{-1} \times \text{Amt} - 3.844 \times 10^{-2}$
 Coef of Det (r^2) = 0.994286 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M
 Calibration Table Last Updated: Wed Jul 23 10:09:41 2025

2-Nitrophenol

52 of 521

Response Ratio



Handwritten signature

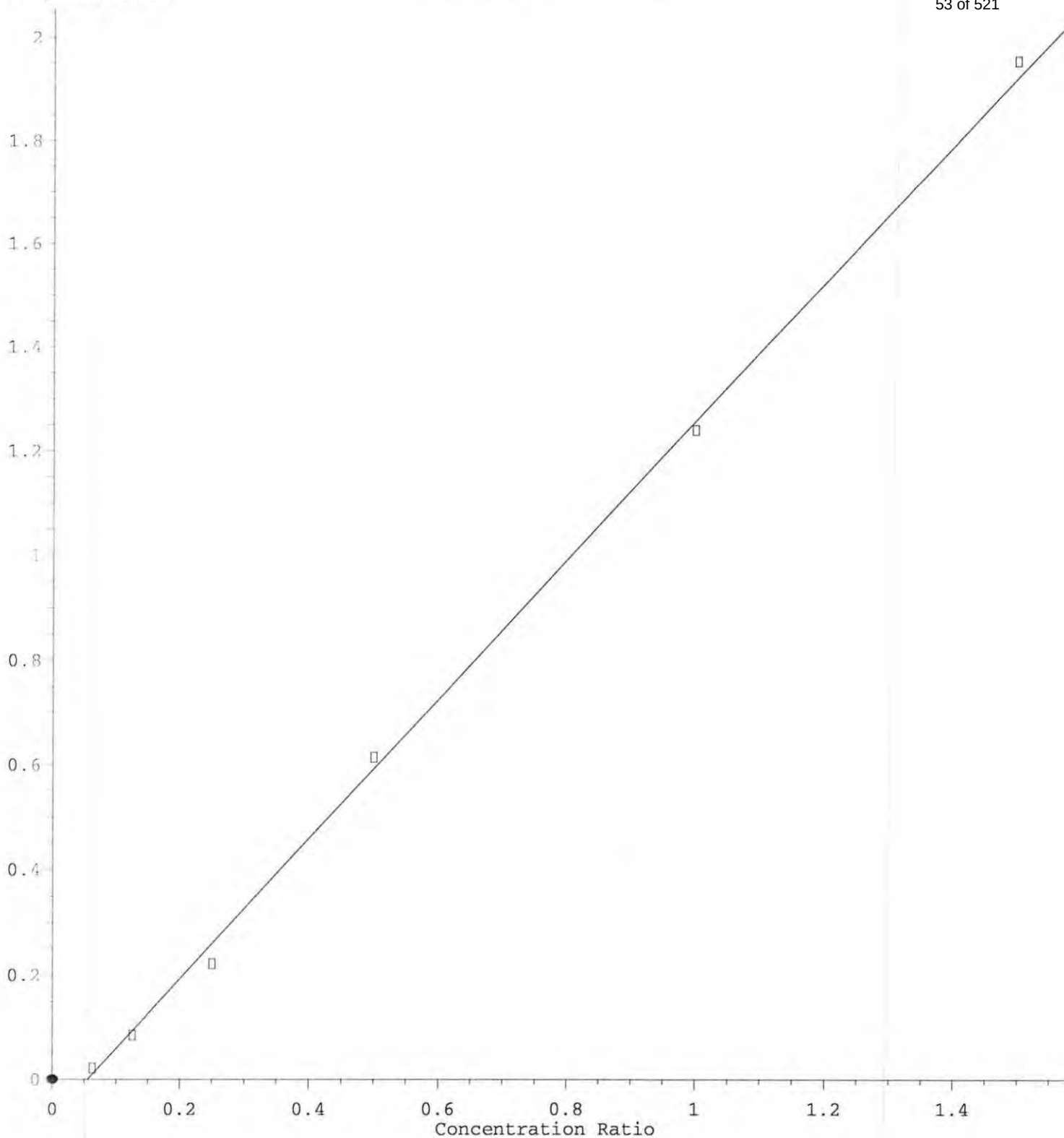
$$\text{Response} = 1.868\text{e-}001 * \text{Amt} - 7.838\text{e-}003$$

Coef of Det (r^2) = 0.998451 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:09:41 2025

Response Ratio



$$\text{Response} = 1.333\text{e}+000 * \text{Amt} - 7.264\text{e}-002$$

Coef of Det (r^2) = 0.997441 Curve Fit: wlr(1/a)

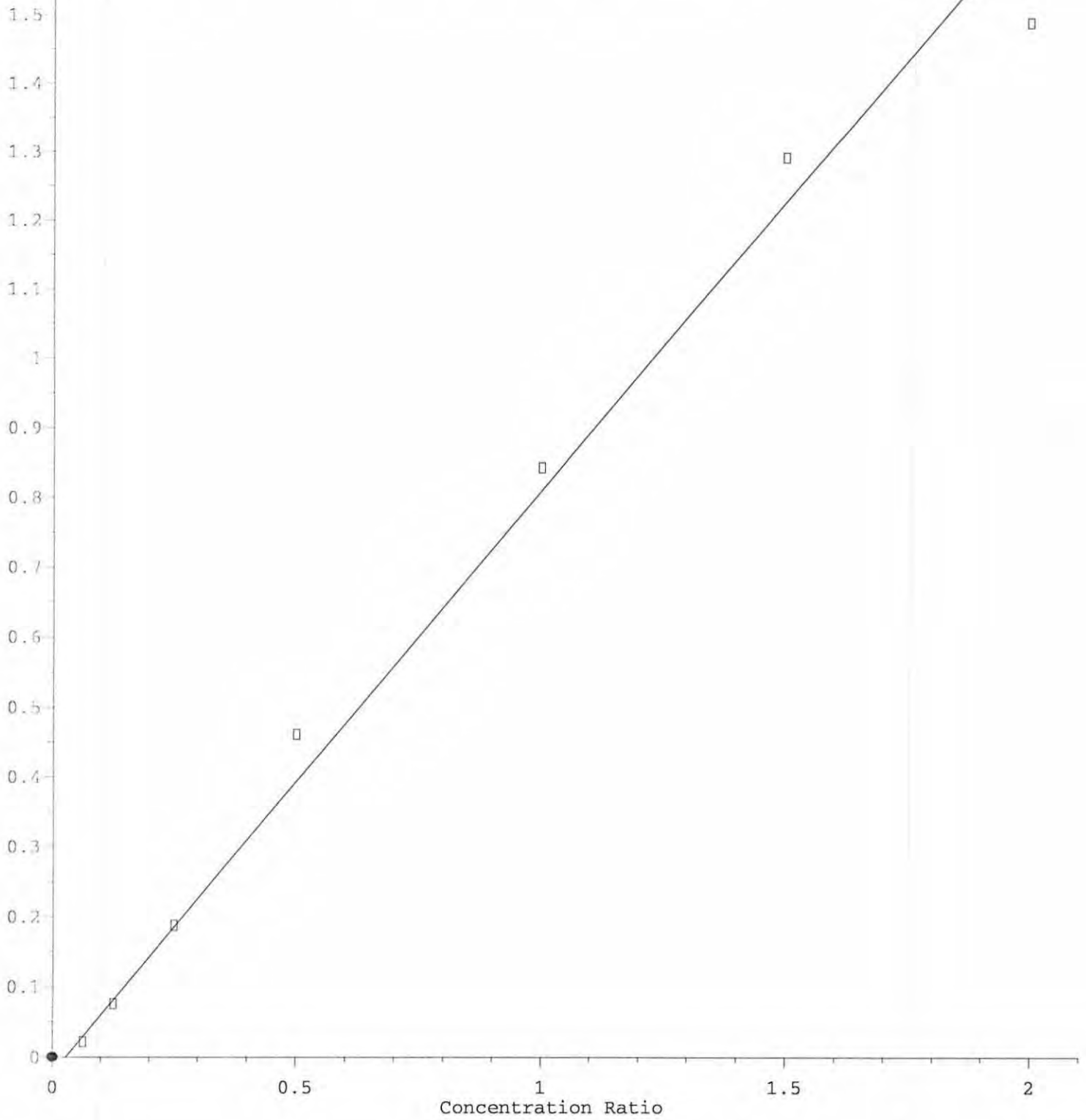
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Bis (2-ethylhexyl) phthalate

Response Ratio

54 of 521



$$\text{Response} = 8.346\text{e-}001 * \text{Amt} - 2.377\text{e-}002$$

Coeff of Det (r^2) = 0.990587 Curve Fit: wlr(1/a)

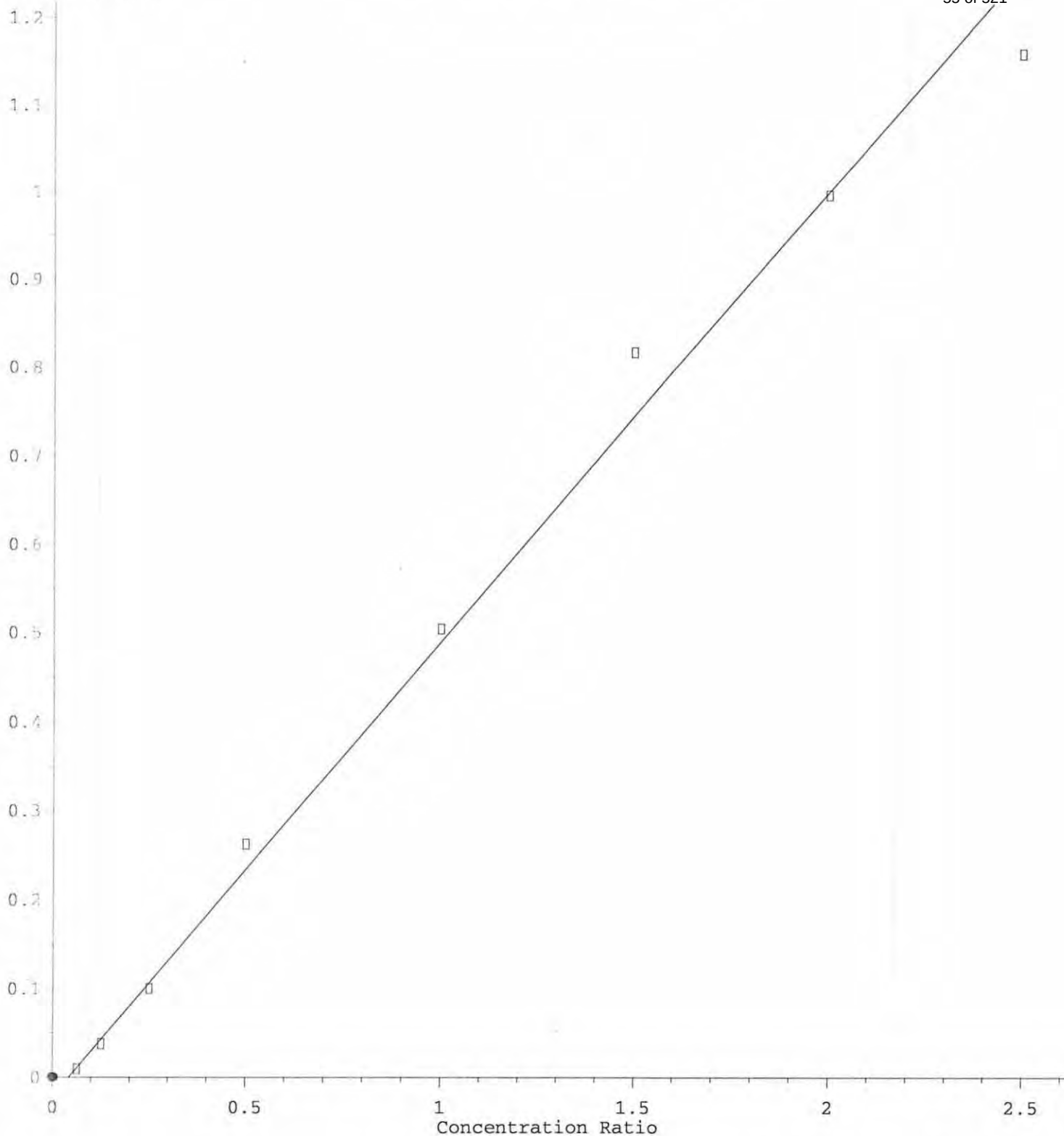
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Bis (2-ethylhexyl) adipate

Response Ratio

55 of 521



Handwritten signature

$$\text{Response} = 5.118\text{e-}001 * \text{Amt} - 2.170\text{e-}002$$

Coef of Det (r^2) = 0.994060 Curve Fit: wlr(1/a)

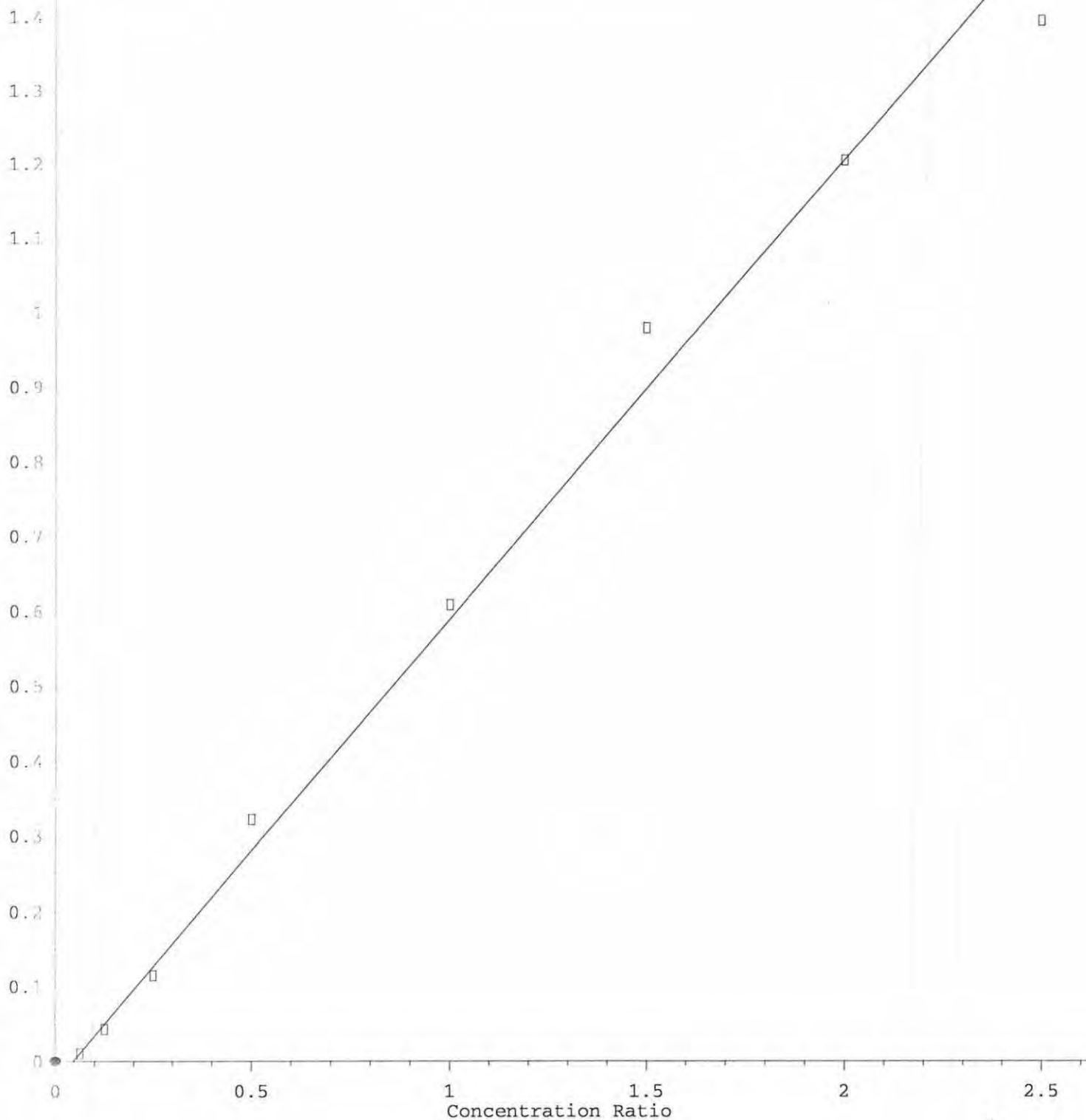
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Butyl benzyl phthalate

Response Ratio

56 of 521



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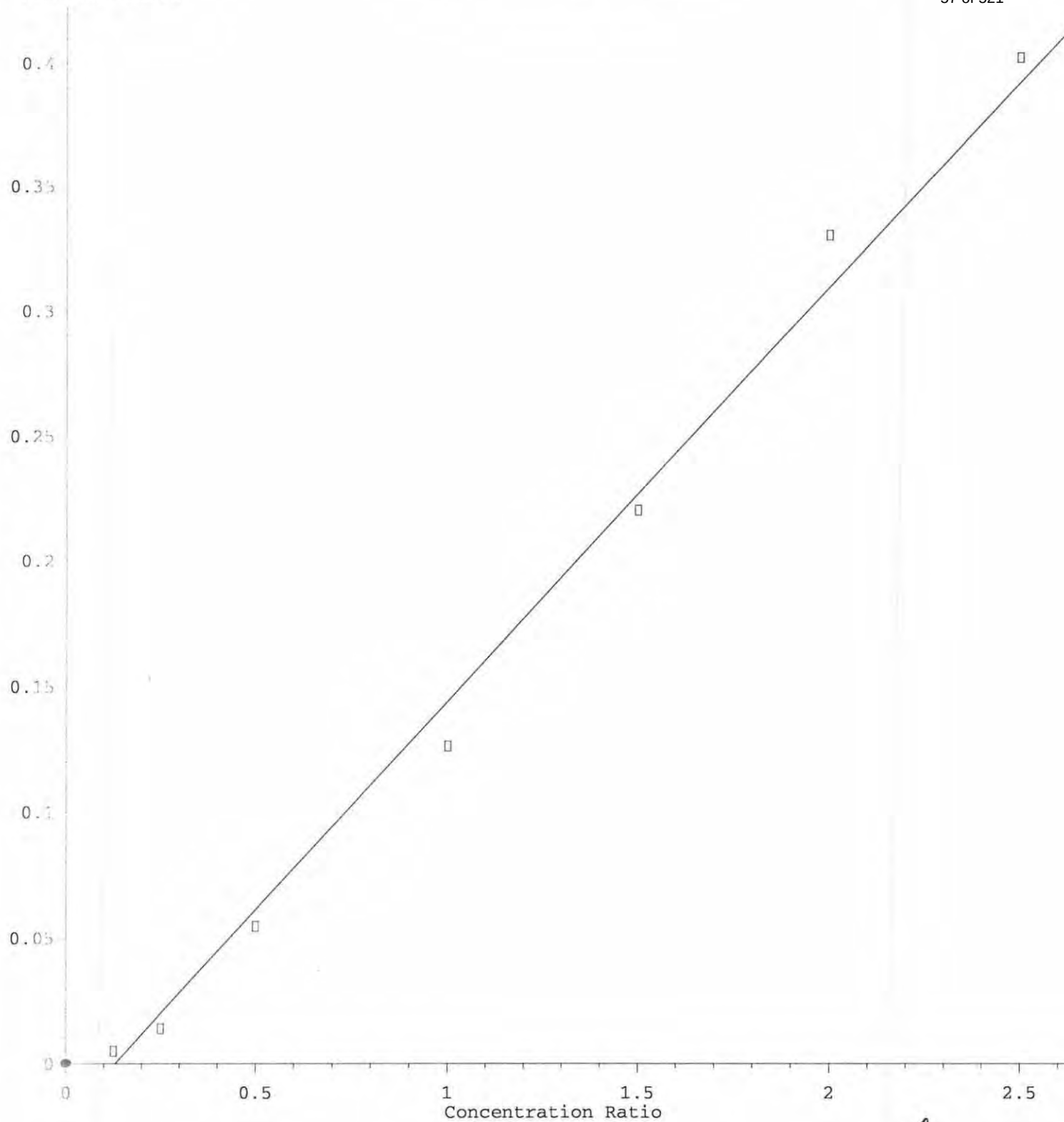
$$\text{Response} = 6.184\text{e-}001 * \text{Amt} - 2.816\text{e-}002$$

Coef of Det (r^2) = 0.993580 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Response Ratio



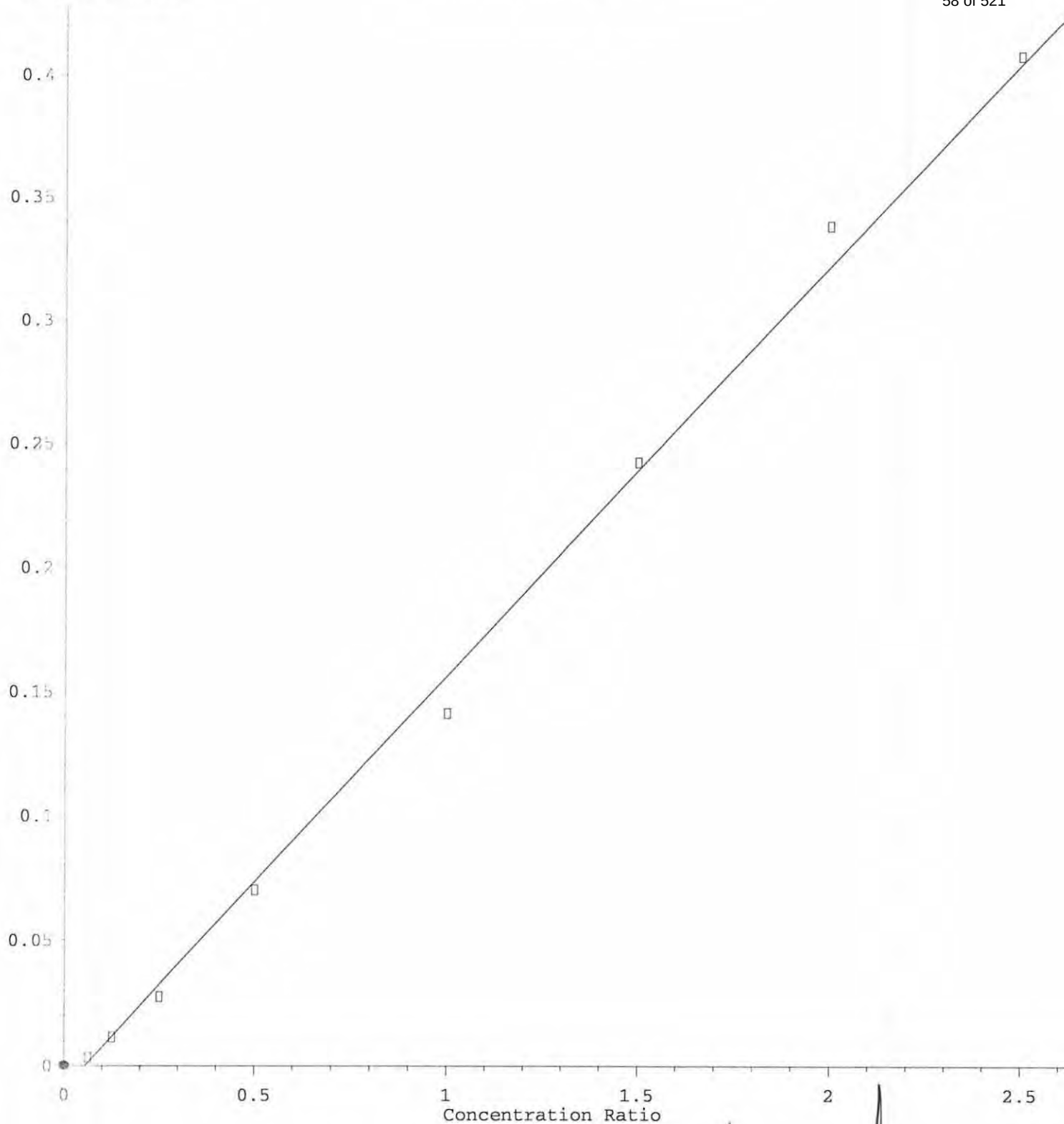
A handwritten signature or mark, possibly 'H', located in the bottom right corner of the plot area.

$$\text{Response} = 1.658\text{e-}001 * \text{Amt} - 2.149\text{e-}002$$

Coef of Det (r^2) = 0.991895 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

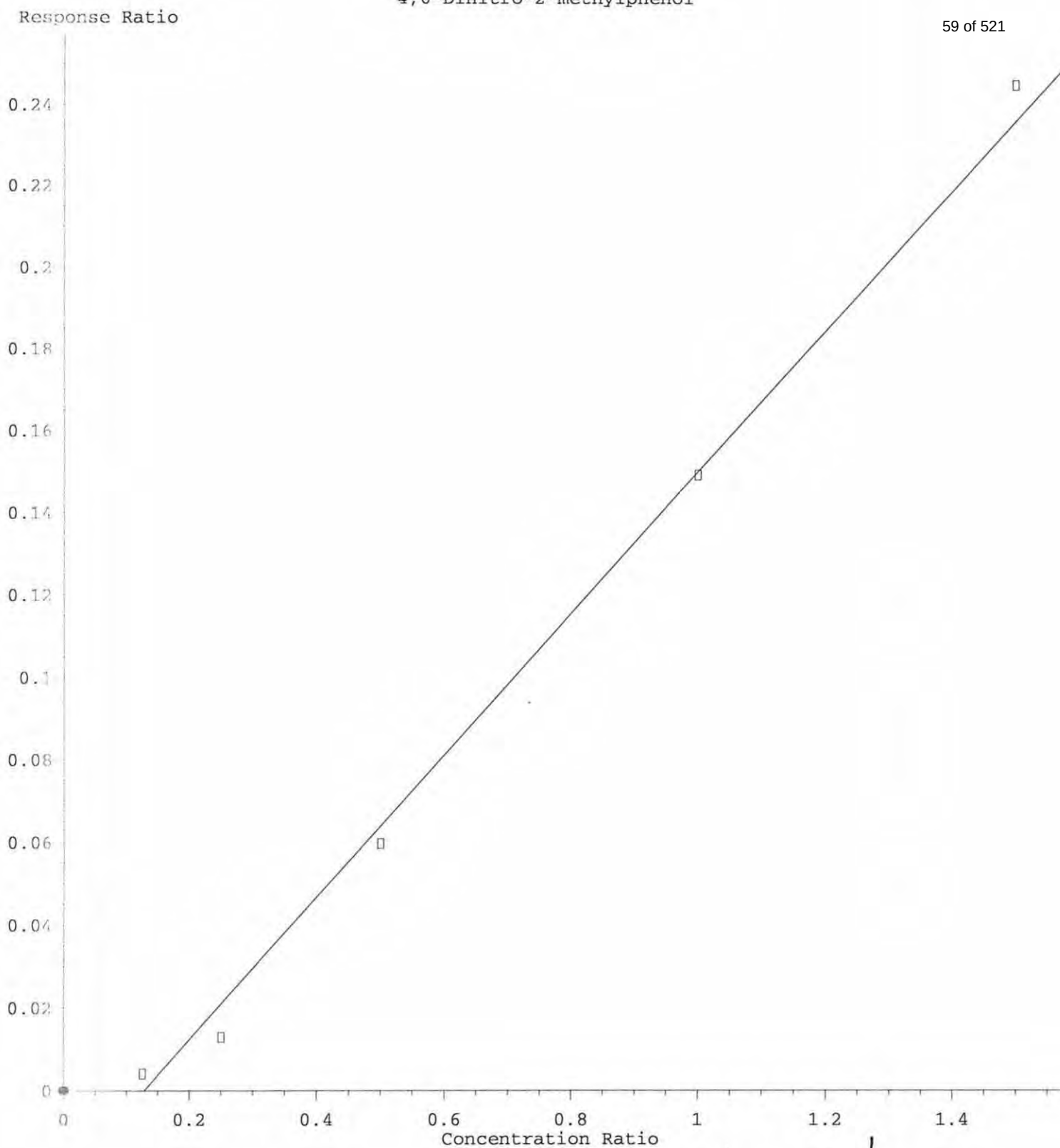


$$\text{Response} = 1.659\text{e-}001 * \text{Amt} - 9.100\text{e-}003$$

Coef of Det (r^2) = 0.996565 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025



$$\text{Response} = 1.721\text{e-}001 * \text{Amt} - 2.195\text{e-}002$$

Coef of Det (r^2) = 0.990193 Curve Fit: wlr(1/a)

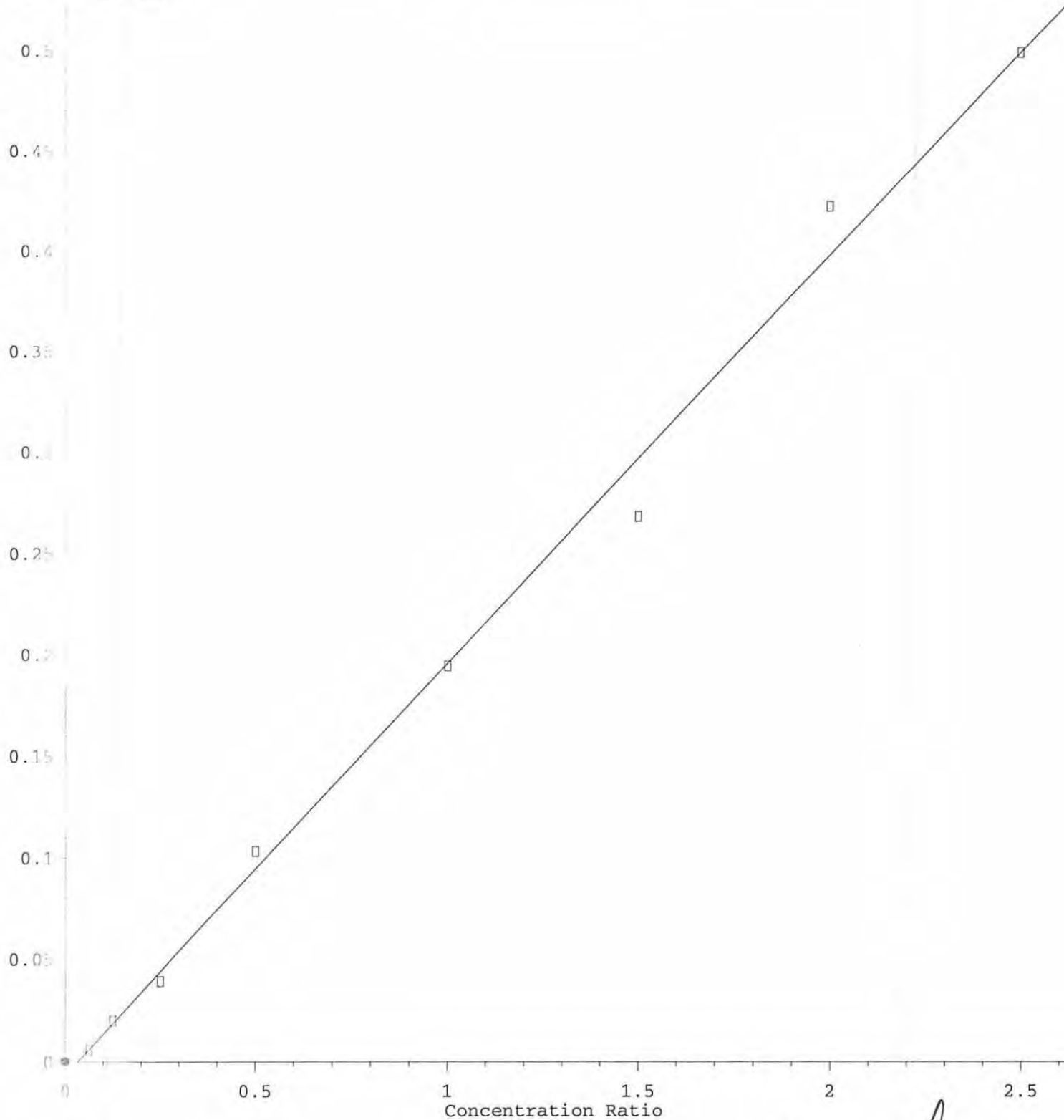
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

4-Nitroaniline

60 of 521

Response Ratio



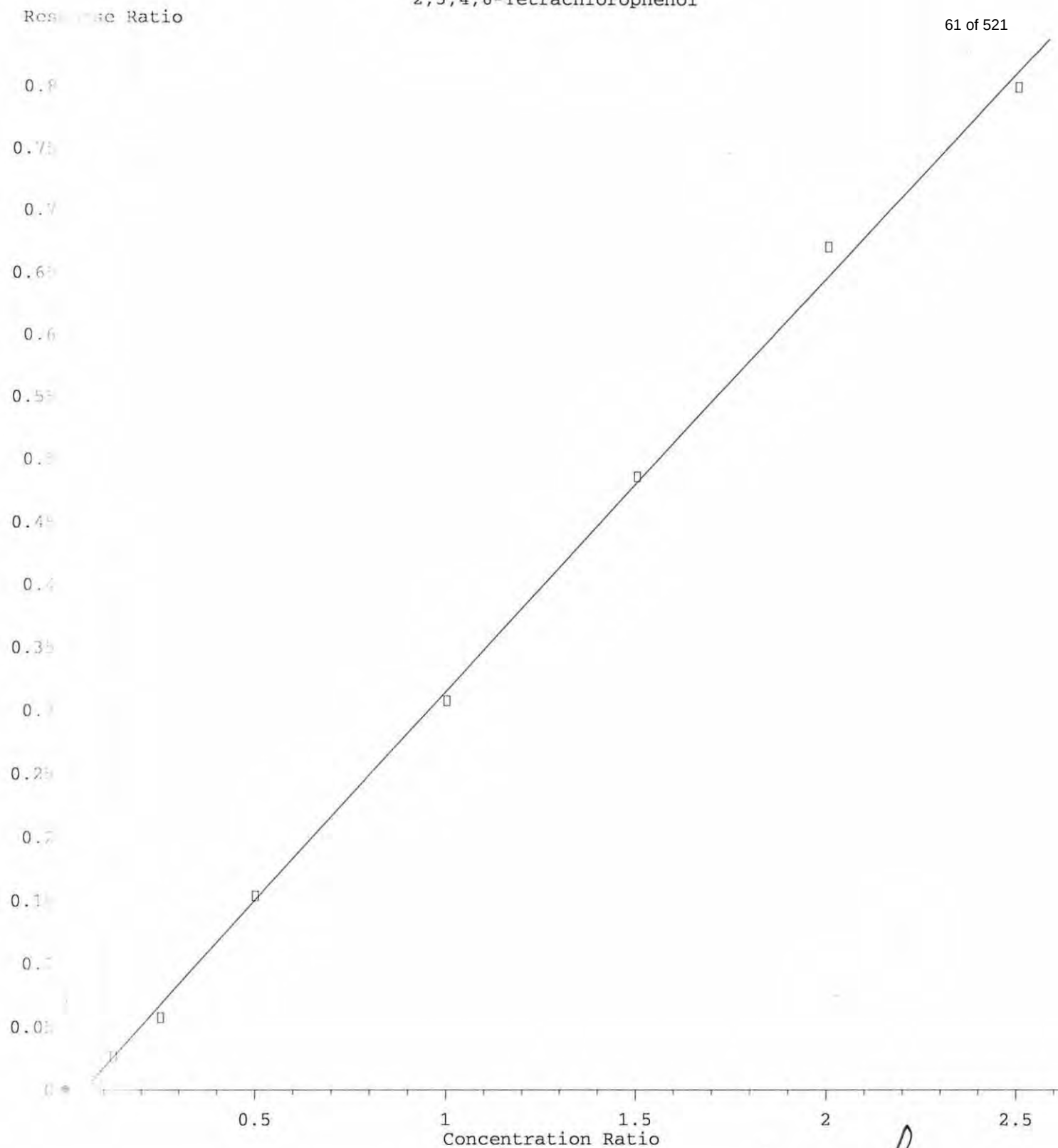
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$$\text{Response} = 2.024\text{e-}001 * \text{Amt} - 6.616\text{e-}003$$

Coef of Det (r^2) = 0.995507 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025



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$$\text{Response} = 3.323\text{e-}001 * \text{Amt} - 1.565\text{e-}002$$

Coef of Det (r²) = 0.998560 Curve Fit: wlr(1/a)

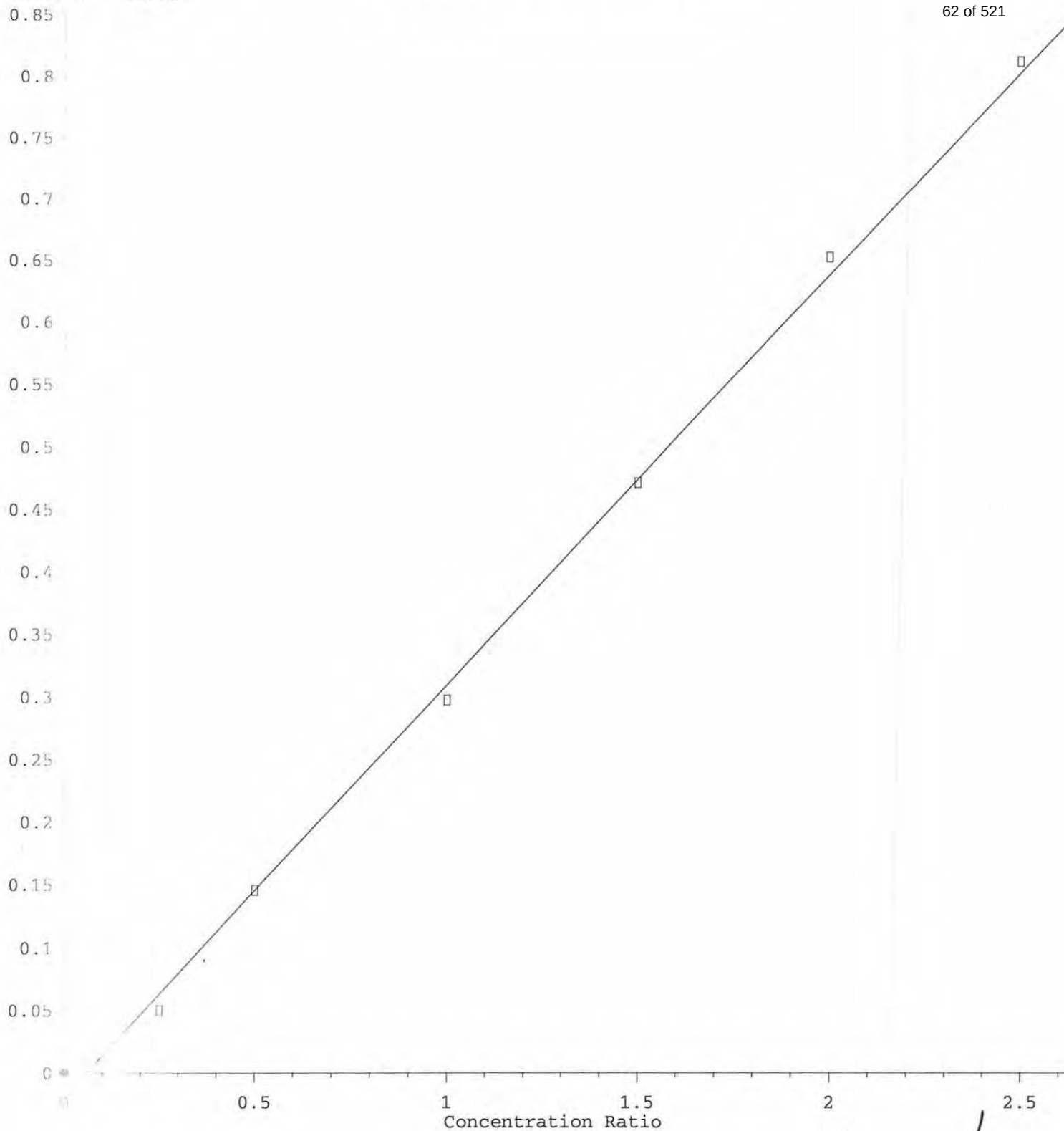
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

2,3,5,6-Tetrachlorophenol

62 of 521

Response Ratio



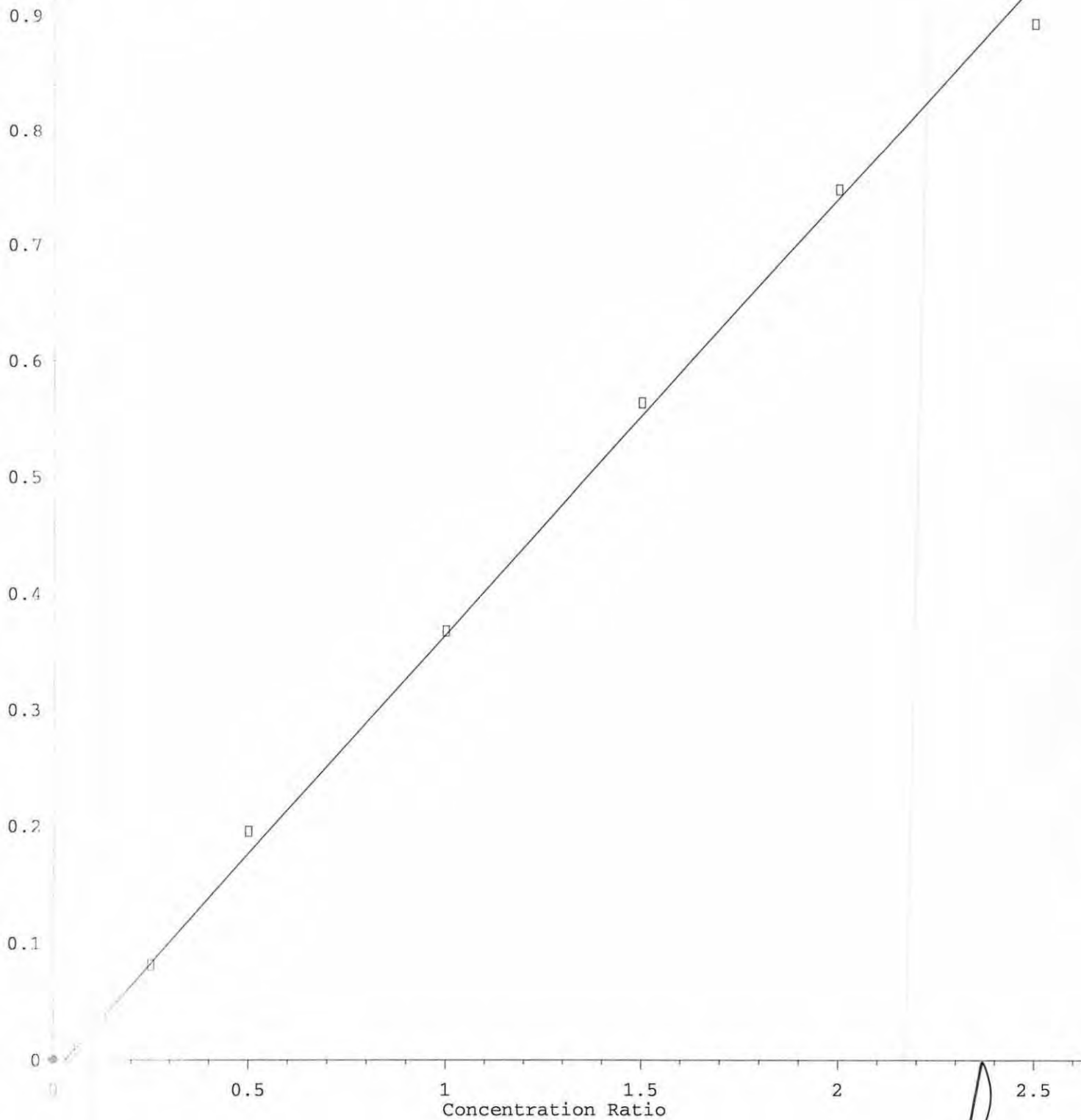
Handwritten signature

Response = 3.290e-001 * Amt - 1.916e-002
 Coef of Det (r^2) = 0.998111 Curve Fit: wlr(1/a)
 Method used: C:\GCMS\1\methods\MS-SV04_250718SV.M
 Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

2,4-Dinitrotoluene

Response Ratio

63 of 521



$$\text{Response} = 3.772\text{e-}001 * \text{Amt} - 1.169\text{e-}002$$

Coef of Det (r^2) = 0.998334 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

4-Nitrophenol

64 of 521

Response Ratio

0.35

0.3

0.25

0.2

0.15

0.1

0.05

0

0.5

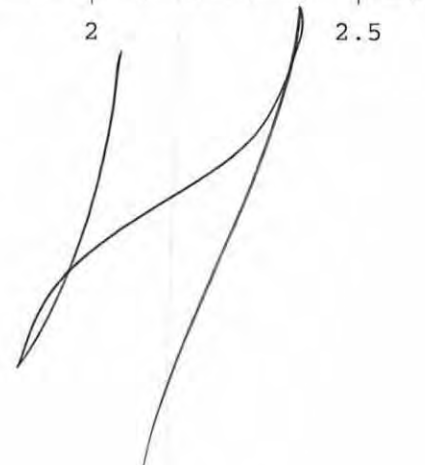
1

1.5

2

2.5

Concentration Ratio



$$\text{Response} = 1.559\text{e-}001 * \text{Amt} - 1.123\text{e-}002$$

Coef of det (r^2) = 0.995100 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

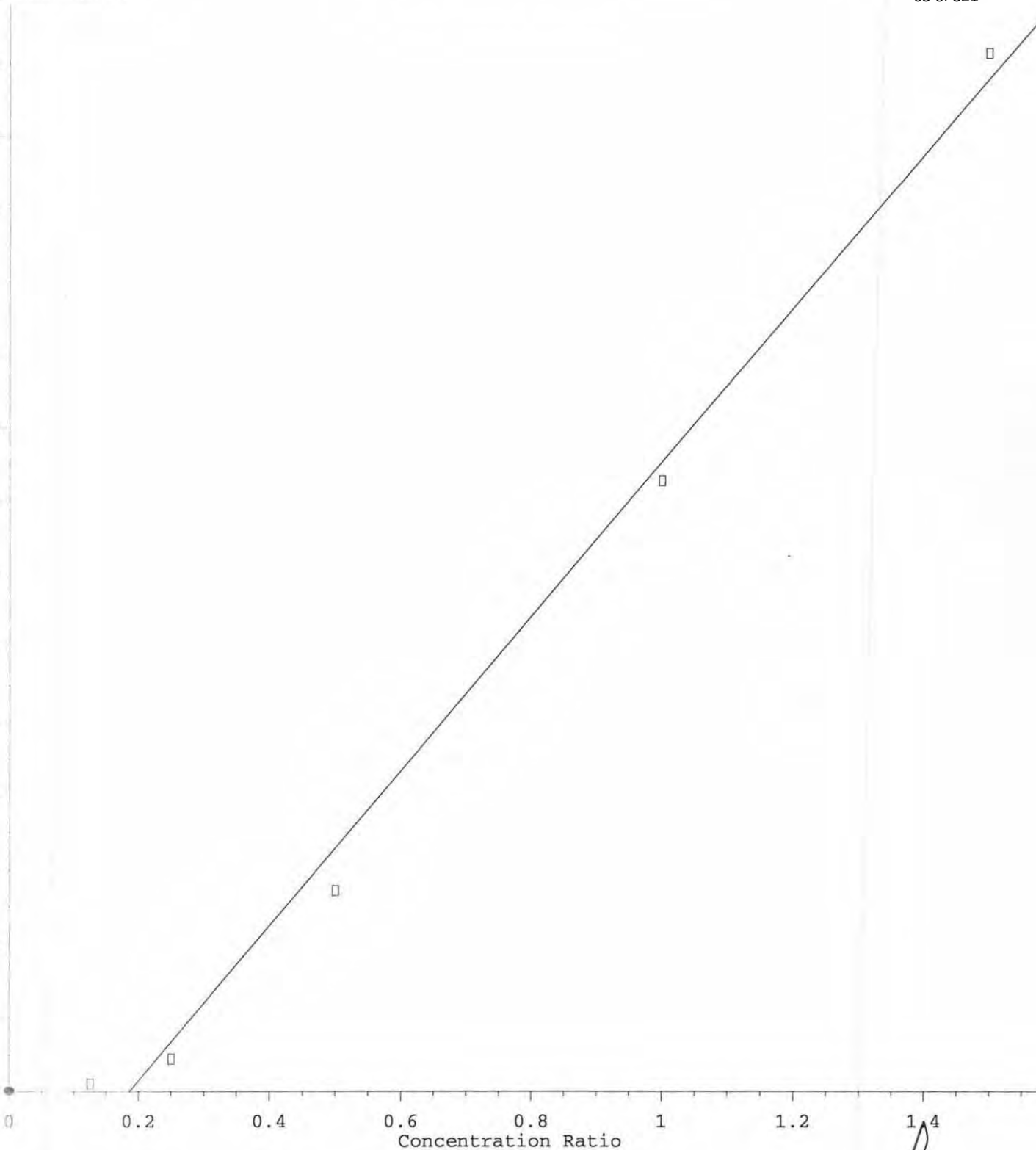
Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

2,4-Dinitrophenol

65 of 521

Response Ratio

0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0



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$$\text{Response} = 1.051\text{e-}001 * \text{Amt} - 1.950\text{e-}002$$

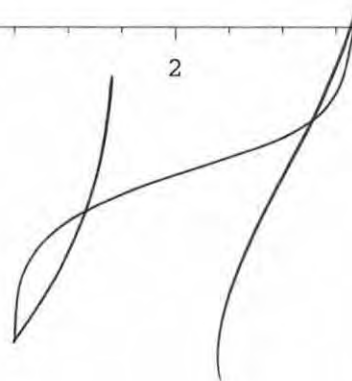
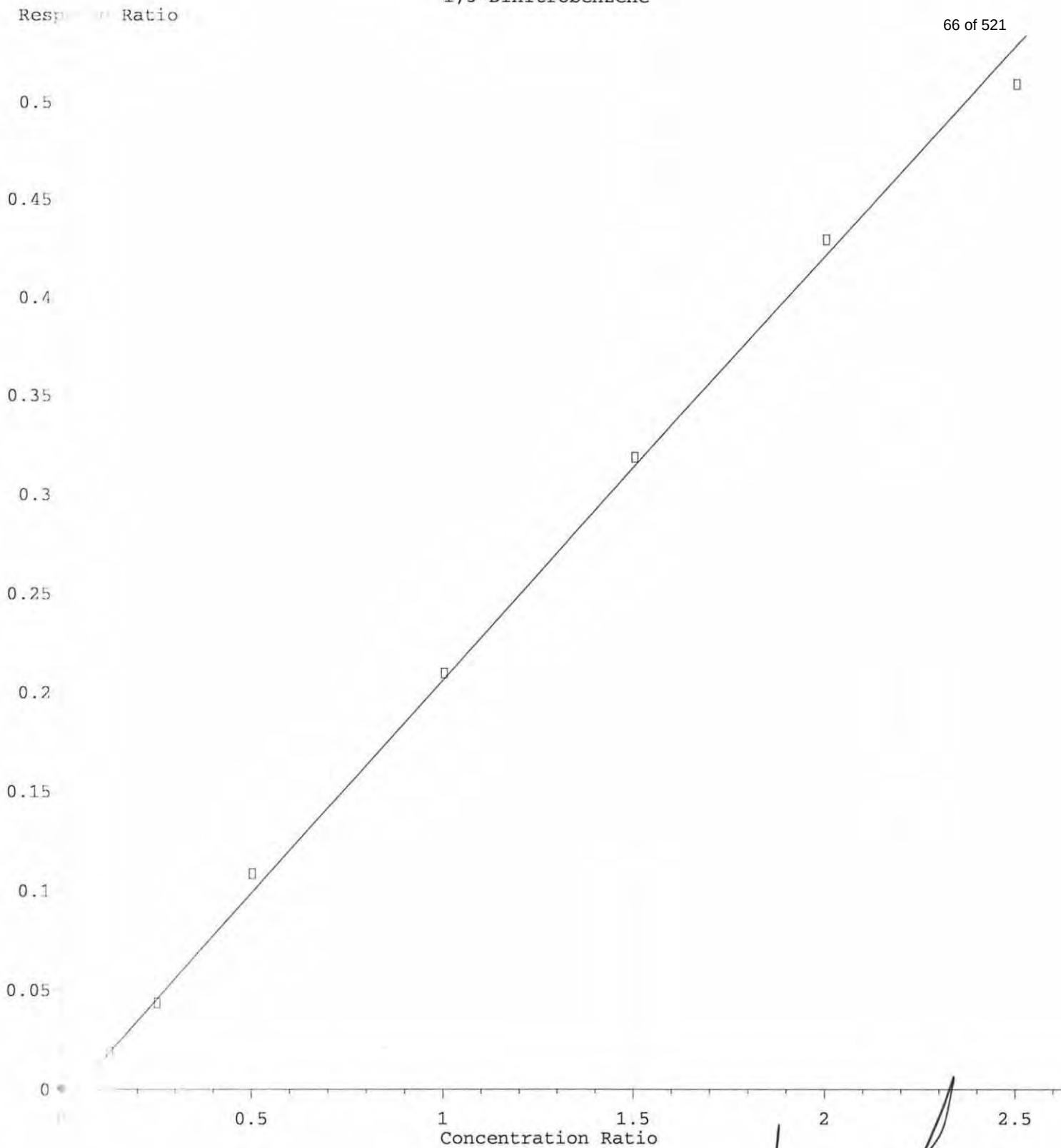
Coef of Det (r^2) = 0.992133 Curve Fit: Linear

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

1,3-Dinitrobenzene

66 of 521



$$\text{Response} = 2.155\text{e-}001 * \text{Amt} - 8.400\text{e-}003$$

Coef of Det (r^2) = 0.998543 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

1,4-Dinitrobenzene

67 of 521

Response Ratio
0.45

0.4

0.35

0.3

0.25

0.2

0.15

0.1

0.05

0

0.5

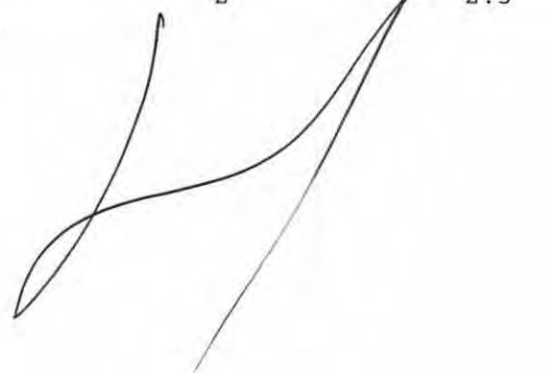
1

1.5

2

2.5

Concentration Ratio



$$\text{Response} = 1.842\text{e-}001 * \text{Amt} - 9.019\text{e-}003$$

Coef of det. (r^2) = 0.997449 Curve Fit: wlr(1/a)

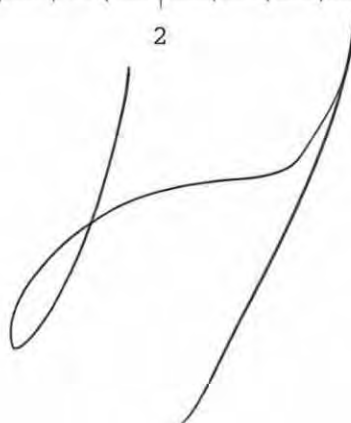
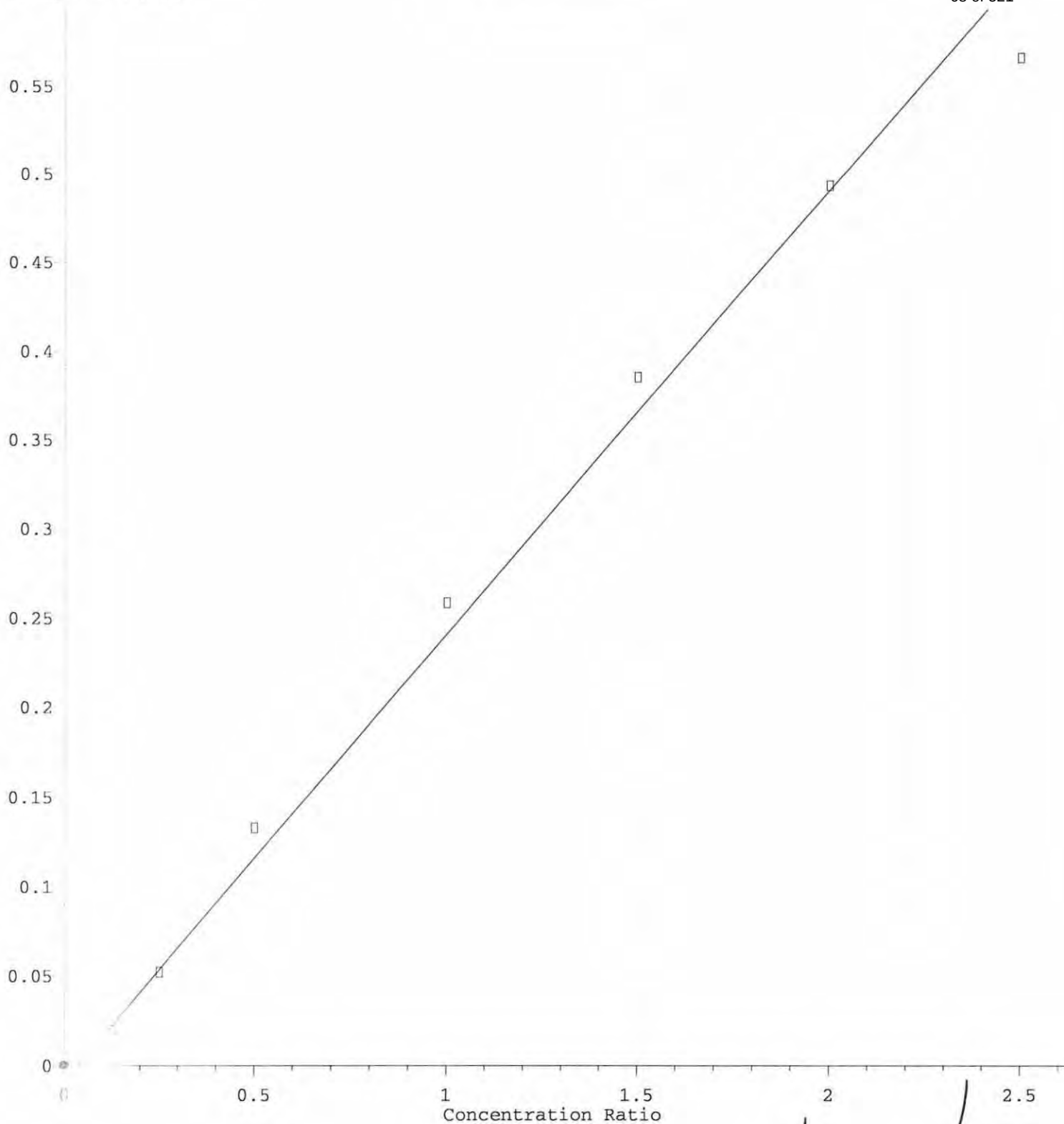
Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

2-Nitroaniline

Response Ratio

68 of 521



$$\text{Response} = 2.508\text{e-}001 * \text{Amt} - 9.328\text{e-}003$$

Coef of det (r^2) = 0.994174 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Hexachlorocyclopentadiene

69 of 521

Response Ratio

0.26

0.24

0.22

0.2

0.18

0.16

0.14

0.12

0.1

0.08

0.06

0.04

0.02

0

0.2

0.4

0.6

0.8

1

1.2

1.4

Concentration Ratio



Response Ratio = 1.739e-001 * Amt - 2.018e-002

Coef of r^2 = 0.992396 Curve Fit: wlr(1/a)

Method MS C:\GCMS\1\methods\MS-SV04_250718SV.M

Calibration Table Last Updated: Wed Jul 23 10:30:03 2025

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071807.D
 Acq On : 18 Jul 2025 05:13 pm
 Operator : BMS
 Sample : SEQ-CAL1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	3523256	40.00	ug/ml	0.00
21) Naphthalene-d8	8.261	136	10827763	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.992	164	6271963	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.322	188	8924755	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.560	240	6575295	40.00	ug/ml	0.00
81) Perylene-d12	19.945	264	7241336	40.00	ug/ml	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.713	112	270659	2.37	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	2.37%#		
5) Phenol-d5	5.755	99	315212	2.56	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	2.56%#		
19) Nitrobenzene-d5	7.019	82	213170	2.10	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	4.20%#		
39) 2-Fluorobiphenyl	10.492	172	639107	2.85	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	5.70%#		
64) 2,4,6-Tribromophenol	13.834	330	29580	2.99	ug/ml	0.00
Spiked Amount 100.000	Range 20 - 86		Recovery =	2.99%#		
75) p-Terphenyl-d14	17.473	244	527494	2.75	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	5.50%#		

Target Compounds

						Qvalue
2) Pyridine	3.254	79	256980m	2.41	ug/ml	
3) N-Nitrosodimethylamine	3.225	74	147547m	2.45	ug/ml	
6) Aniline	5.817	93	336488	2.29	ug/ml	94
7) Phenol	5.766	94	361421	2.97	ug/ml#	85
8) Bis (2-chloroethyl) ether	5.886	93	310922	2.99	ug/ml#	74
9) 2-Chlorophenol	5.955	128	276897	2.48	ug/ml	93
10) 1,3-Dichlorobenzene	6.144	146	356459	2.69	ug/ml	96
11) 1,4-Dichlorobenzene	6.241	146	345786	2.67	ug/ml#	90
12) Benzyl alcohol	6.395	108	136728	2.11	ug/ml	87
13) 1,2-Dichlorobenzene	6.447	146	339923	2.70	ug/ml	95
14) o-Cresol	6.538	108	255454	2.68	ug/ml	95
15) Bis (2-chloroisopropyl)...	6.590	121	111235	2.69	ug/ml	96
16) p-Cresol	6.767	107	258264	2.56	ug/ml	94
17) N-nitrosodi-n-propyl a...	6.779	70	159063	2.48	ug/ml	97
18) Hexachloroethane	6.950	117	113331	2.34	ug/ml	99
20) Nitrobenzene	7.048	77	242958	2.49	ug/ml#	67
22) Isophorone	7.437	82	483334	2.66	ug/ml	98
23) 2-Nitrophenol	7.580	139	43509	2.54	ug/ml	92
24) 2,4-Dimethylphenol	7.643	122	228078	2.62	ug/ml	92
25) Bis (2-chloroethoxy) m...	7.814	93	315286	2.88	ug/ml	98
26) 2,4-Dichlorophenol	7.998	162	175298	2.15	ug/ml#	96
27) 1,2,4-Trichlorobenzene	8.158	180	279123	2.72	ug/ml	96
28) Benzoic acid	7.740	105	3217m	4.66	ug/ml	
29) Naphthalene	8.301	128	837336	2.96	ug/ml	97
30) 4-Chloroaniline	8.404	127	259958	2.36	ug/ml#	97
31) Hexachlorobutadiene	8.541	225	167400	2.55	ug/ml	99
32) p-Chloro-m-cresol	9.388	107	151710	1.96	ug/ml	88

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071807.D
 Acq On : 18 Jul 2025 05:13 pm
 Operator : BMS
 Sample : SEQ-CAL1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.686	142	494661	2.78	ug/ml	98
34) 1-Methylnaphthalene	9.886	142	521993	2.82	ug/ml	96
35) Hexachlorocyclopentadiene	10.029	237	12123	4.90	ug/ml	99
37) 2,4,6-Trichlorophenol	10.298	196	84549	1.59	ug/ml	96
38) 2,4,5-Trichlorophenol	10.372	198	82606	1.57	ug/ml	96
40) 2-Chloronaphthalene	10.727	162	478040	2.73	ug/ml#	97
41) 2-Nitroaniline	10.973	65	31647	2.29	ug/ml#	91
42) 1,4-Dinitrobenzene	11.311	75	18279	2.59	ug/ml#	40
43) 1,2-Dinitrobenzene	11.643	168	31015	1.52	ug/ml#	1
44) Dimethyl phthalate	11.437	163	516457	2.55	ug/ml#	98
45) Acenaphthylene	11.648	152	759538	2.80	ug/ml	98
46) 2,6-Dinitrotoluene	11.551	165	71209	1.59	ug/ml	91
47) 1,3-Dinitrobenzene	11.471	168	27490	2.37	ug/ml#	56
48) 3-Nitroaniline	11.911	138	55139	1.39	ug/ml#	88
49) Acenaphthene	12.054	154	465756	2.82	ug/ml	99
50) 2,4-Dinitrophenol	12.175	184	1603	7.52	ug/ml	96
51) Dibenzofuran	12.461	168	649315	2.77	ug/ml	98
52) 4-Nitrophenol	12.375	109	9155	3.25	ug/ml	86
53) 2,4-Dinitrotoluene	12.472	165	60625	2.26	ug/ml#	63
54) 2,3,5,6-Tetrachlorophenol	12.667	232	33852	2.89	ug/ml	97
55) 2,3,4,6-Tetrachlorophenol	12.770	232	45274	2.75	ug/ml	98
56) Diethyl phthalate	13.102	149	458560	2.33	ug/ml	97
57) Fluorene	13.262	166	526793	2.69	ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.313	204	272894	2.65	ug/ml	98
59) 4-Nitroaniline	13.325	138	37006	2.30	ug/ml#	71
60) 4,6-Dinitro-2-methylph...	13.422	198	6470	5.34	ug/ml#	67
61) N-Nitrosodiphenylamine	13.594	169	404415	2.48	ug/ml	97
62) Azobenzene	13.680	77	455777	2.77	ug/ml	98
65) 4-Bromophenyl phenyl e...	14.469	248	136758	2.36	ug/ml	95
66) Hexachlorobenzene	14.555	284	179897	2.53	ug/ml	98
67) Pentachlorophenol	14.990	266	10229	5.46	ug/ml#	95
68) Phenanthrene	15.356	178	700175	2.91	ug/ml	97
69) Anthracene	15.442	178	643352	2.74	ug/ml	96
70) Carbazole	15.728	167	513579	2.61	ug/ml#	97
71) Di-n-butyl phthalate	16.295	149	445231	1.79	ug/ml#	93
72) Fluoranthene	17.027	202	651111	2.60	ug/ml	96
74) Pyrene	17.290	202	677129	2.78	ug/ml	94
76) Butyl benzyl phthalate	17.983	149	66440	2.47	ug/ml#	71
77) Bis (2-ethylhexyl) adi...	18.051	129	61876	2.43	ug/ml#	86
78) Benzo (a) anthracene	18.549	228	554182	2.81	ug/ml	97
79) Chrysene	18.583	228	540827	2.78	ug/ml	95
80) Bis (2-ethylhexyl) pht...	18.538	149	144155	2.19	ug/ml	99
82) Di-n-octyl phthalate	19.115	149	156571	2.83	ug/ml#	96
83) Benzo (b) fluoranthene	19.545	252	395839	2.08	ug/ml	98
84) Benzo (k) fluoranthene	19.573	252	557040	2.68	ug/ml	96
85) Benzo (a) pyrene	19.882	252	398965	2.22	ug/ml	98
86) Indeno (1,2,3-cd) pyrene	21.227	276	434521	2.10	ug/ml	94
87) Dibenz (a,h) anthracene	21.233	278	326885	2.04	ug/ml	98
88) Benzo (g,h,i) perylene	21.616	276	364252	2.17	ug/ml	94

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

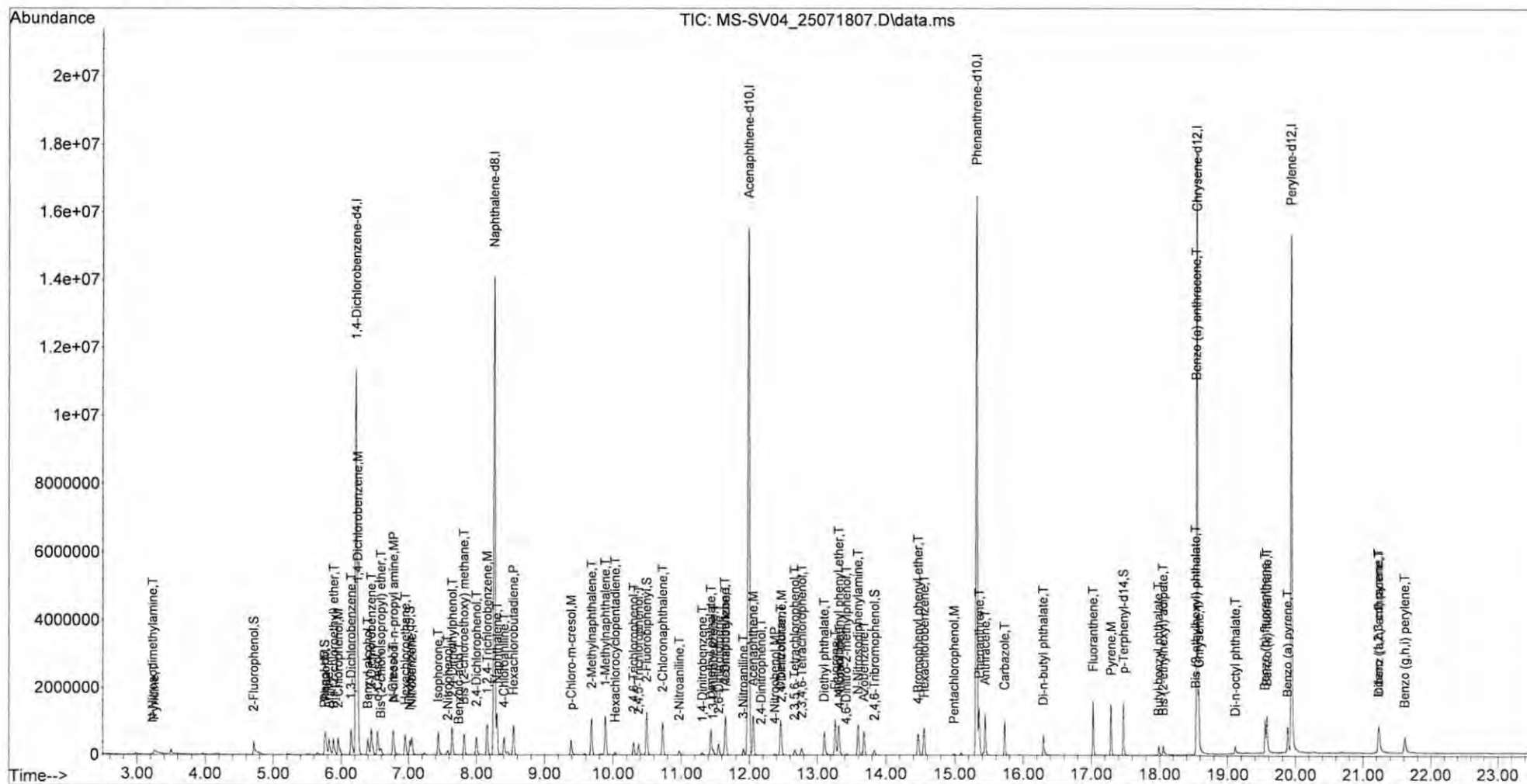
Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



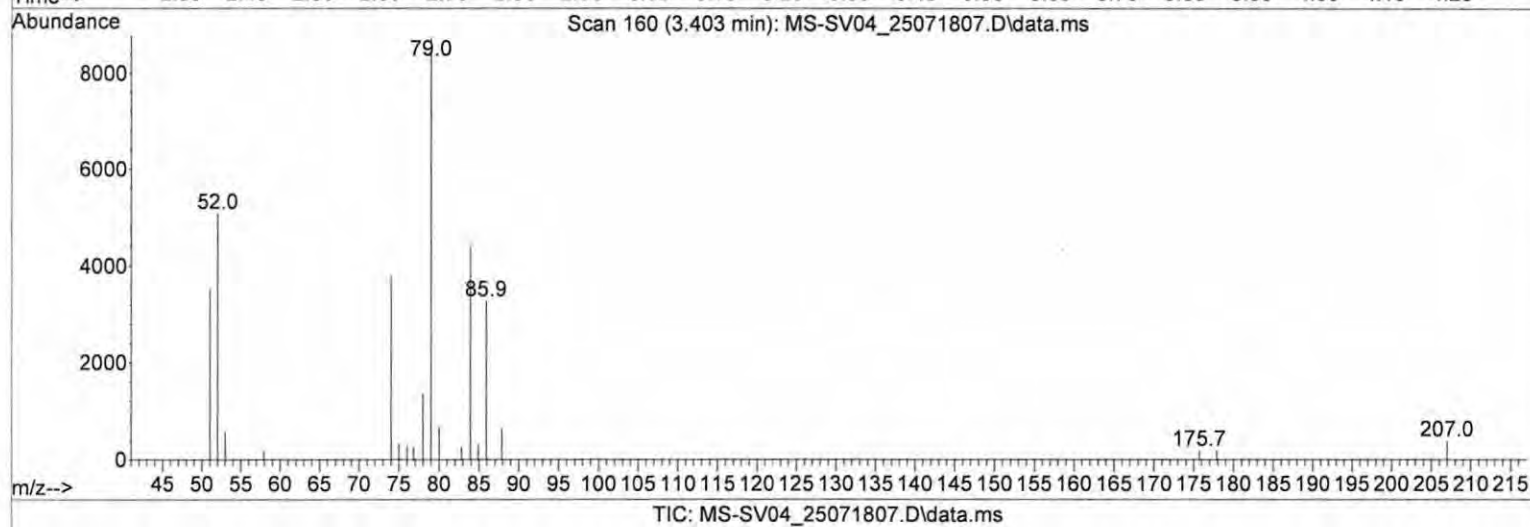
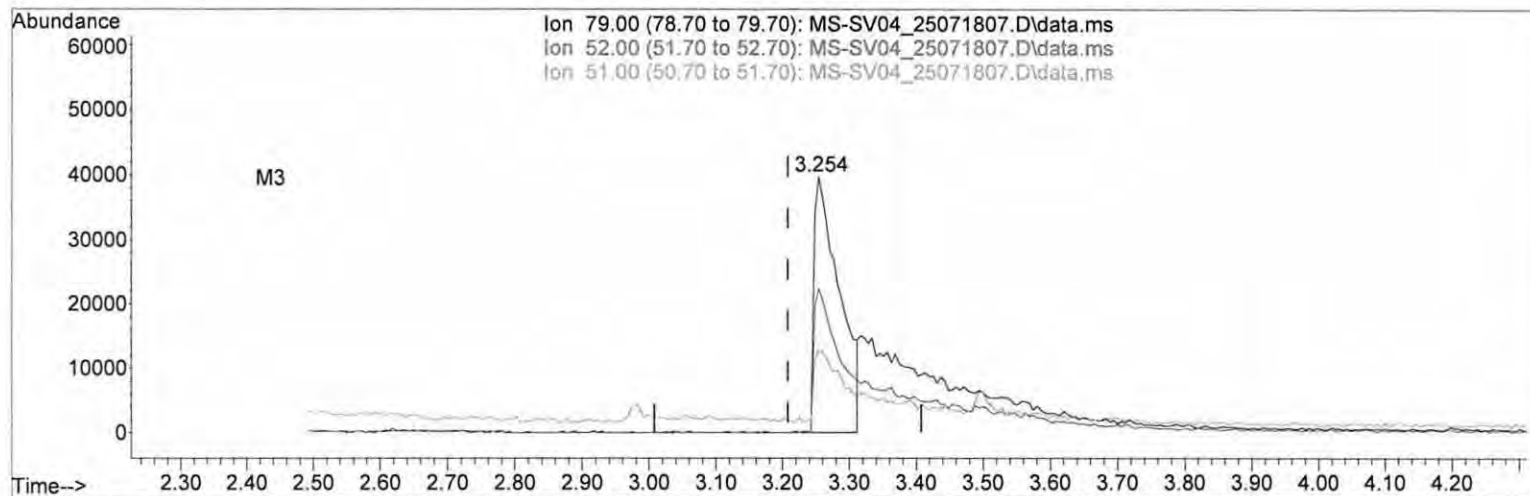
Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

74 of 521

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071807.D\data.ms

(2) Pyridine (T)

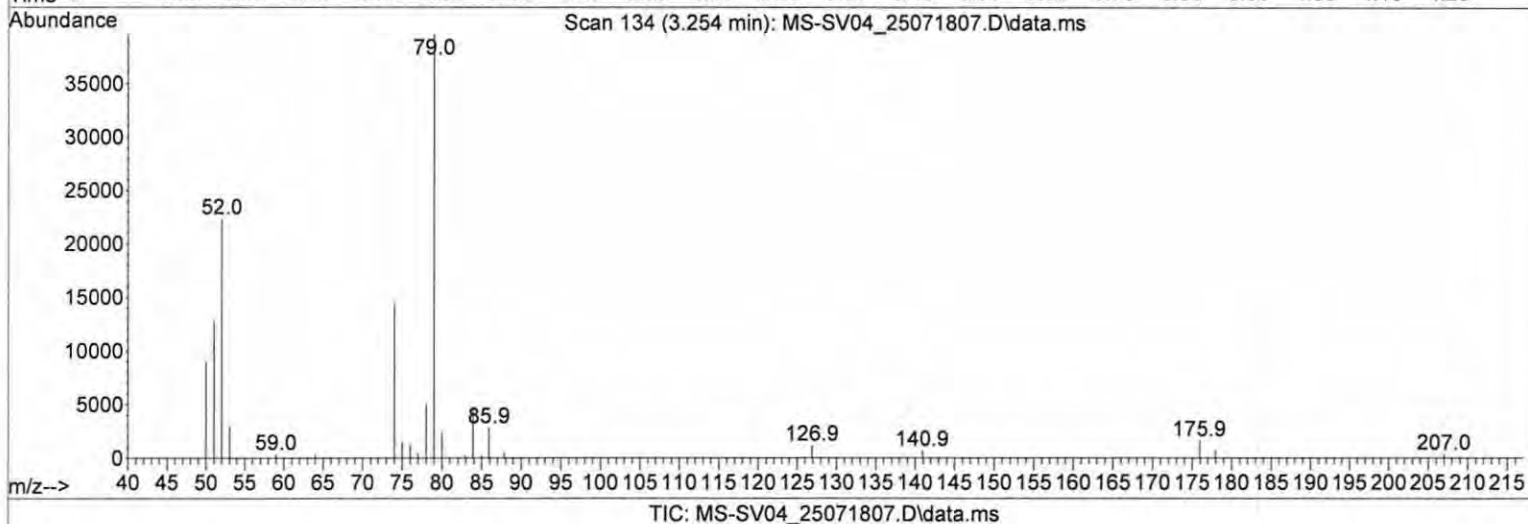
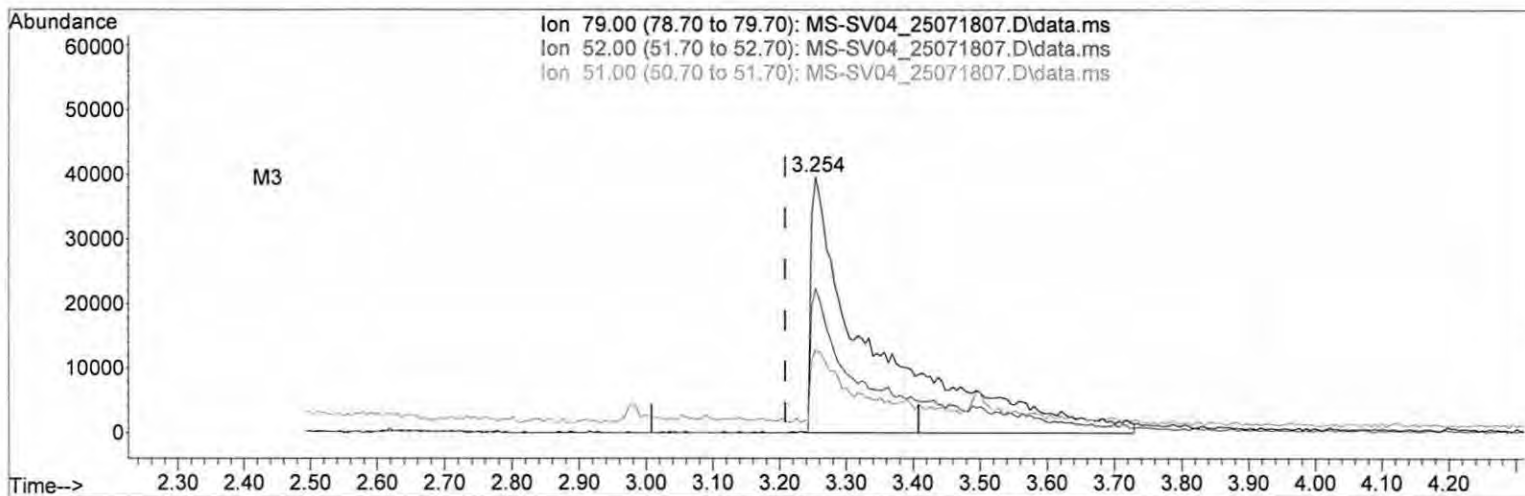
3.254min (+ 0.046) 0.98 ug/ml

response 104816

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	72.33#
51.00	62.40	30.53#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



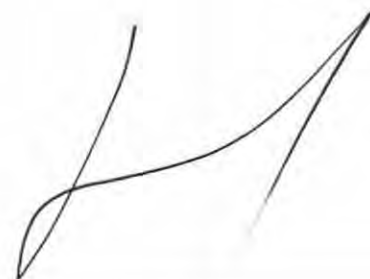
TIC: MS-SV04_25071807.D\data.ms

(2) Pyridine (T)

3.254min (+ 0.046) 2.41 ug/ml m

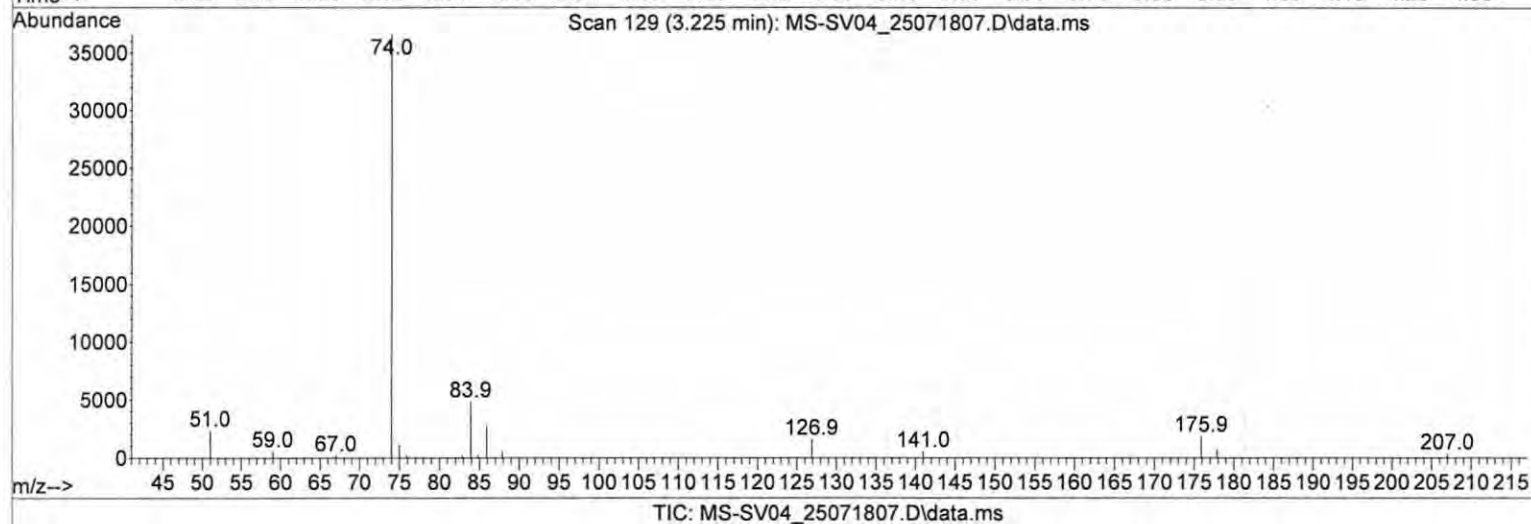
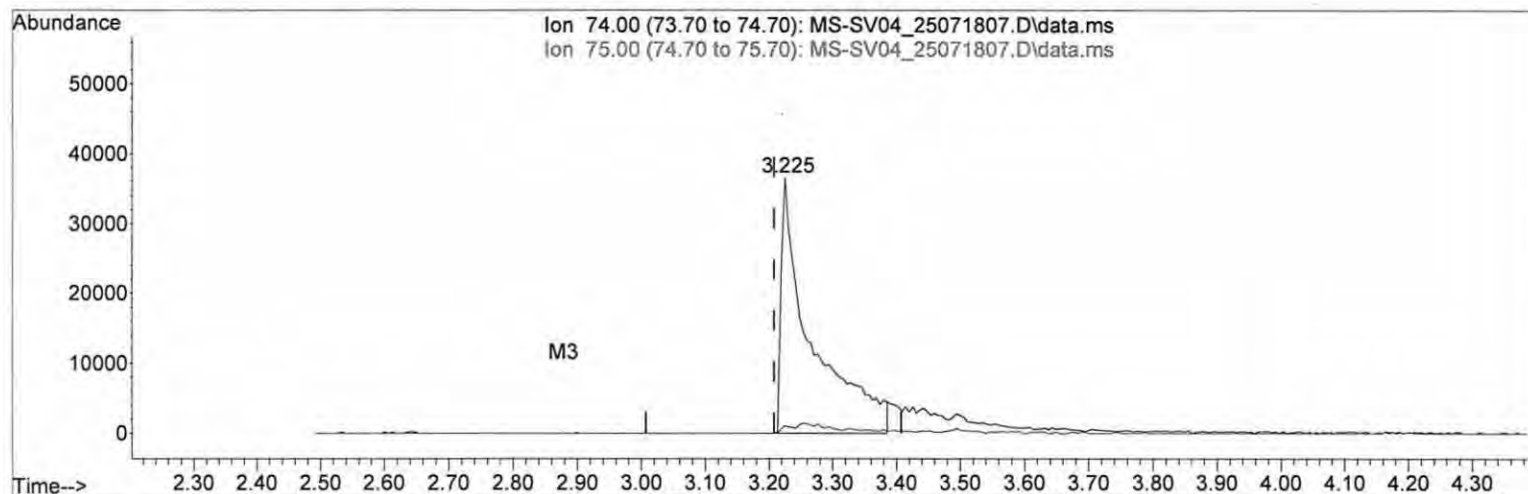
response 256980

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	29.50#
51.00	62.40	12.45#
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071807.D\data.ms

(3) N-Nitrosodimethylamine (T)

3.225min (+ 0.017) 1.98 ug/ml

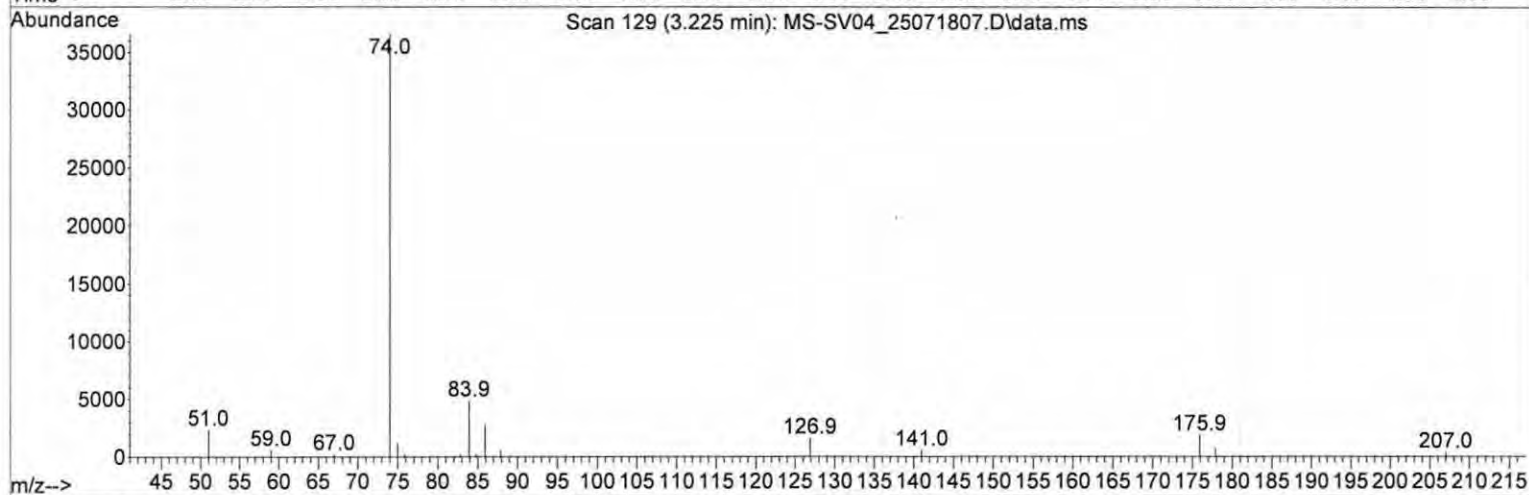
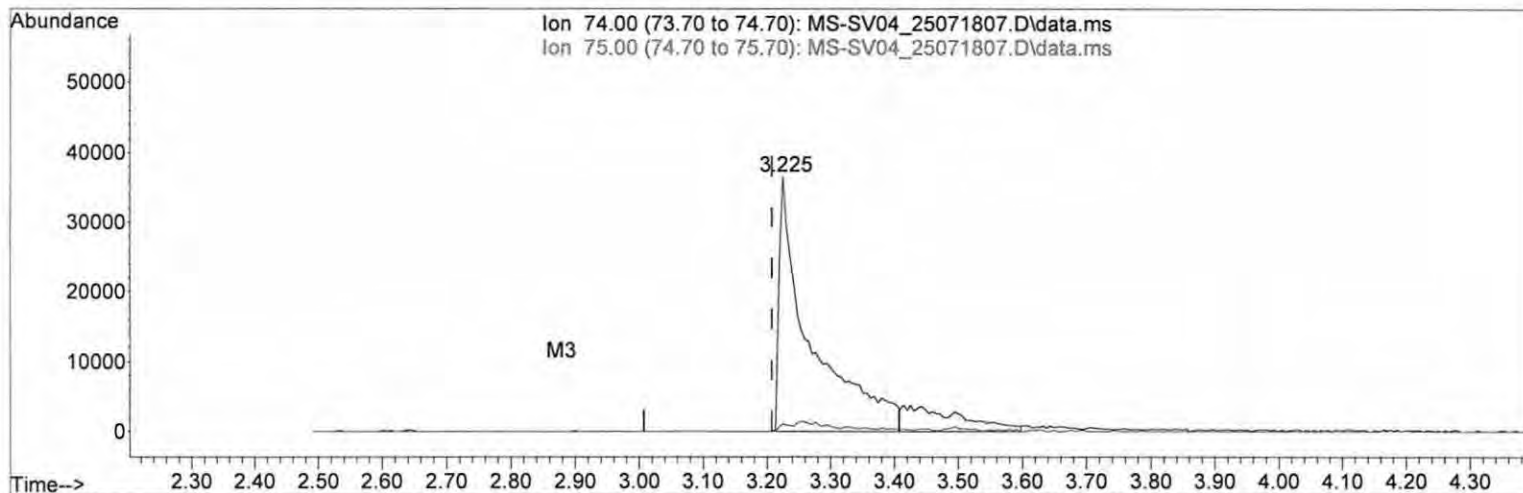
response 119189

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	1.23#
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071807.D\data.ms

(3) N-Nitrosodimethylamine (T)

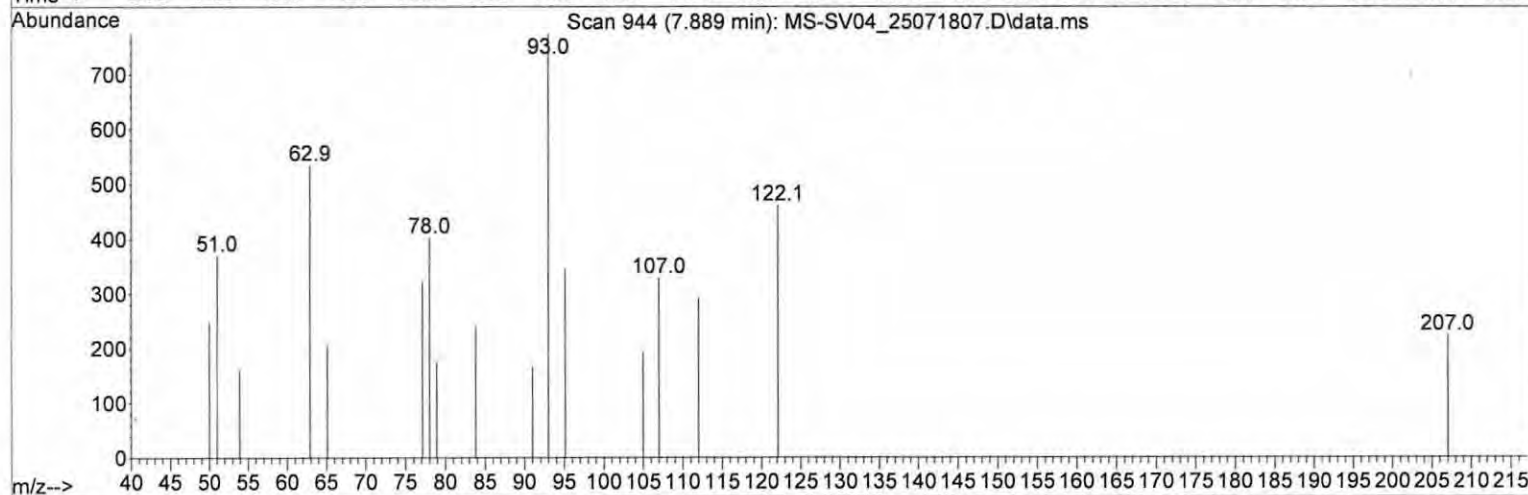
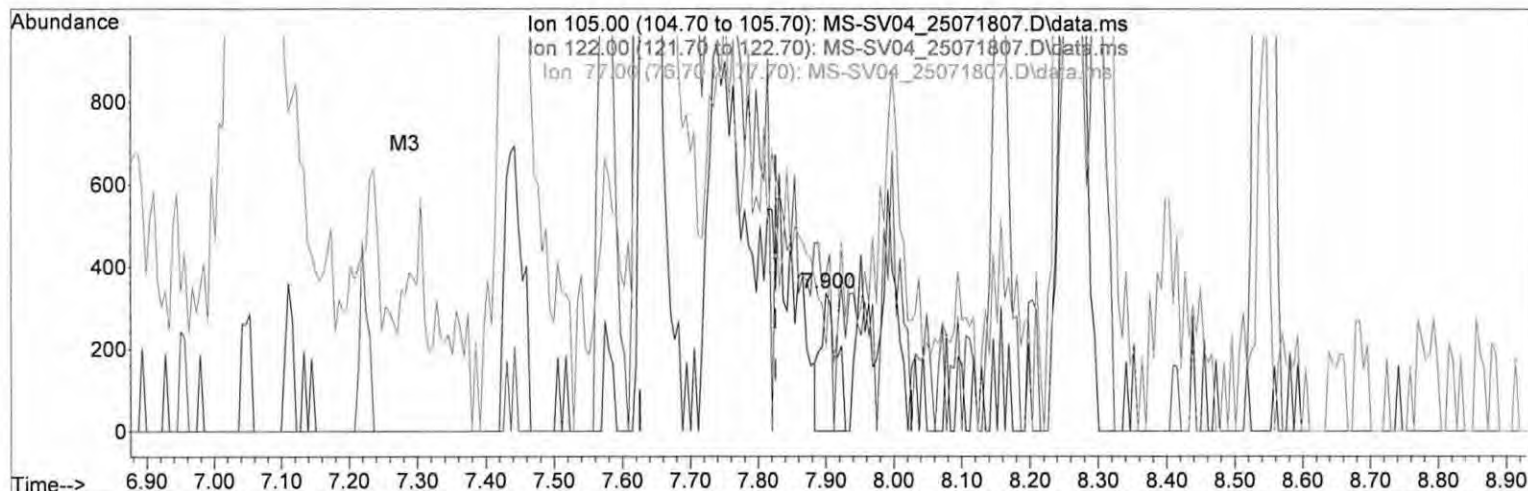
3.225min (+ 0.017) 2.45 ug/ml m

response 147547

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	0.99#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071807.D\data.ms

(28) Benzoic acid (T)

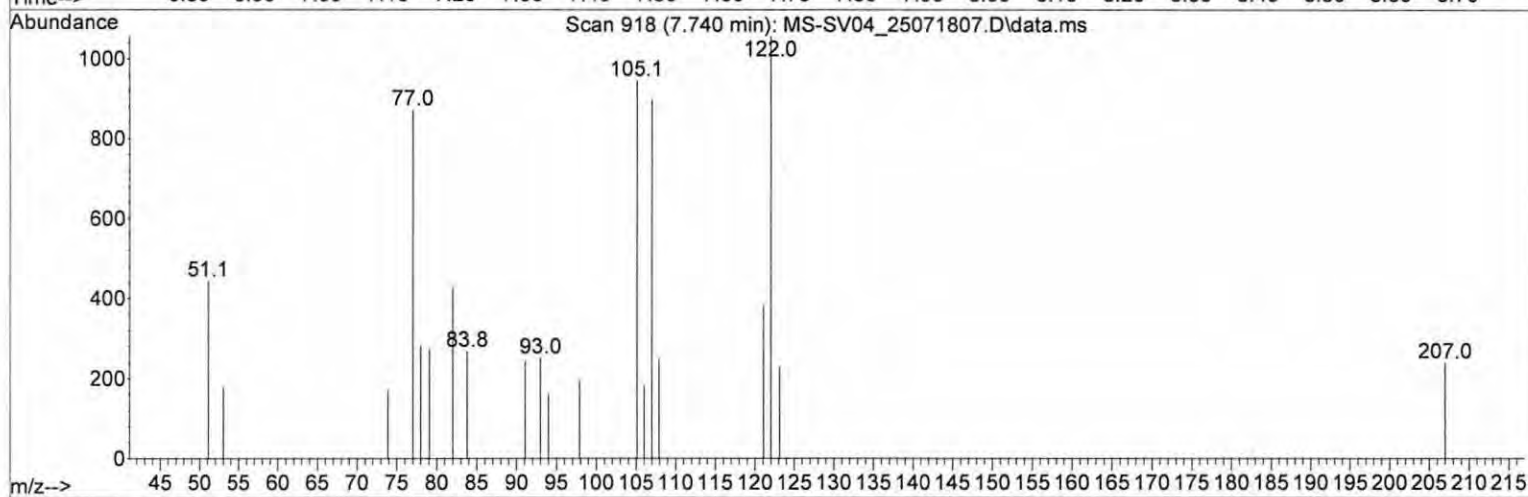
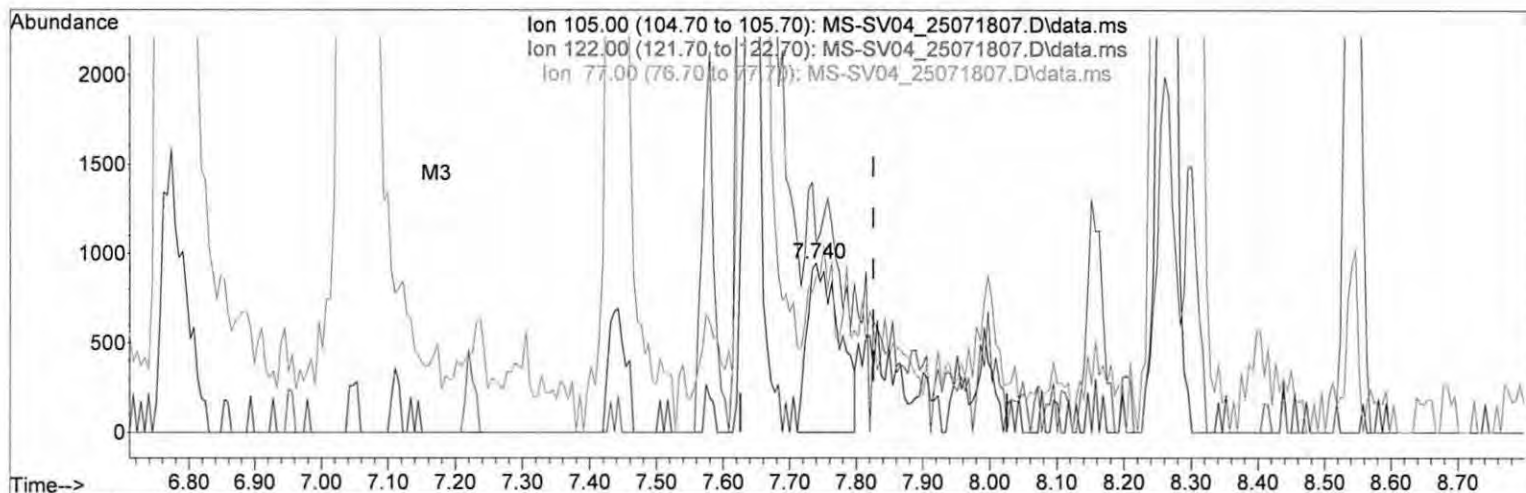
7.900min (+ 0.074) 4.60 ug/ml

response 551

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	129.22#
77.00	60.90	0.00#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071807.D
Acq On : 18 Jul 2025 05:13 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 09:19:38 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071807.D\data.ms

(28) Benzoic acid (T)

7.740min (-0.086) 4.66 ug/ml m

response 3217

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	22.13#
77.00	60.90	0.00#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071808.D
 Acq On : 18 Jul 2025 05:42 pm
 Operator : BMS
 Sample : SEQ-CAL2
 Misc : SVOC
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3645994	40.00	ug/ml	0.00
21) Naphthalene-d8	8.261	136	11380314	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.986	164	6788584	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.316	188	9924513	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.555	240	7260596	40.00	ug/ml	0.00
81) Perylene-d12	19.939	264	7620269	40.00	ug/ml	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	616264	5.22	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	5.22%#
5) Phenol-d5	5.749	99	710343	5.58	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	5.58%
19) Nitrobenzene-d5	7.013	82	536942	5.12	ug/ml	-0.01
Spiked Amount	50.000	Range	10 - 99	Recovery	=	10.24%
39) 2-Fluorobiphenyl	10.487	172	1430442	5.89	ug/ml	-0.01
Spiked Amount	50.000	Range	23 - 87	Recovery	=	11.78%#
64) 2,4,6-Tribromophenol	13.823	330	113297	4.95	ug/ml	-0.01
Spiked Amount	100.000	Range	20 - 86	Recovery	=	4.95%#
75) p-Terphenyl-d14	17.467	244	1299137	6.14	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	12.28%#

Target Compounds					Qvalue
2) Pyridine	3.237	79	556708m	5.05	ug/ml
3) N-Nitrosodimethylamine	3.214	74	317070m	5.08	ug/ml
6) Aniline	5.817	93	812881	5.35	ug/ml
7) Phenol	5.766	94	801676	6.37	ug/ml#
8) Bis (2-chloroethyl) ether	5.880	93	643268	5.97	ug/ml#
9) 2-Chlorophenol	5.949	128	626218	5.41	ug/ml
10) 1,3-Dichlorobenzene	6.138	146	768524	5.61	ug/ml
11) 1,4-Dichlorobenzene	6.235	146	747932	5.59	ug/ml
12) Benzyl alcohol	6.390	108	340062	5.06	ug/ml
13) 1,2-Dichlorobenzene	6.441	146	730841	5.61	ug/ml
14) o-Cresol	6.538	108	550921	5.57	ug/ml
15) Bis (2-chloroisopropyl)...	6.584	121	240612	5.63	ug/ml
16) p-Cresol	6.762	107	576758	5.51	ug/ml
17) N-nitrosodi-n-propyl a...	6.773	70	371546	5.60	ug/ml
18) Hexachloroethane	6.945	117	260036	5.19	ug/ml
20) Nitrobenzene	7.042	77	570898	5.65	ug/ml#
22) Isophorone	7.431	82	1113665	5.83	ug/ml
23) 2-Nitrophenol	7.568	139	164599	4.78	ug/ml
24) 2,4-Dimethylphenol	7.637	122	524033	5.72	ug/ml
25) Bis (2-chloroethoxy) m...	7.814	93	699215	6.08	ug/ml
26) 2,4-Dichlorophenol	7.992	162	449621	5.25	ug/ml
27) 1,2,4-Trichlorobenzene	8.152	180	606207	5.62	ug/ml
28) Benzoic acid	7.729	105	20788m	5.02	ug/ml
29) Naphthalene	8.295	128	1793224	6.03	ug/ml
30) 4-Chloroaniline	8.398	127	632699	5.47	ug/ml#
31) Hexachlorobutadiene	8.535	225	372553	5.39	ug/ml
32) p-Chloro-m-cresol	9.377	107	408960	5.03	ug/ml

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071808.D
 Acq On : 18 Jul 2025 05:42 pm
 Operator : BMS
 Sample : SEQ-CAL2
 Misc : SVOC
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

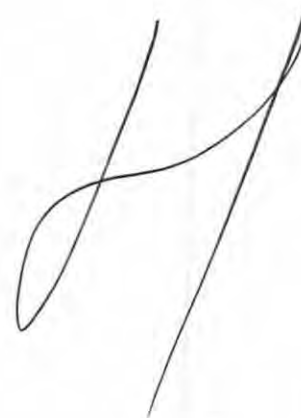
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.680	142	1101549	5.88	ug/ml	98
34) 1-Methylnaphthalene	9.880	142	1164032	5.99	ug/ml	98
35) Hexachlorocyclopentadiene	10.023	237	63494	5.92	ug/ml	97
37) 2,4,6-Trichlorophenol	10.292	196	258929	4.51	ug/ml	97
38) 2,4,5-Trichlorophenol	10.366	198	245910	4.32	ug/ml	95
40) 2-Chloronaphthalene	10.721	162	1092816	5.76	ug/ml#	97
41) 2-Nitroaniline	10.967	65	133939	4.63	ug/ml#	86
42) 1,4-Dinitrobenzene	11.299	75	85436	4.69	ug/ml#	43
43) 1,2-Dinitrobenzene	11.637	168	105560	4.77	ug/ml#	40
44) Dimethyl phthalate	11.431	163	1246886	5.69	ug/ml#	98
45) Acenaphthylene	11.648	152	1754520	5.98	ug/ml	98
46) 2,6-Dinitrotoluene	11.545	165	235130	4.85	ug/ml	88
47) 1,3-Dinitrobenzene	11.465	168	126041	5.01	ug/ml#	58
48) 3-Nitroaniline	11.906	138	199118	4.62	ug/ml	88
49) Acenaphthene	12.054	154	1044104	5.83	ug/ml	100
50) 2,4-Dinitrophenol	12.163	184	6937	7.81	ug/ml	89
51) Dibenzofuran	12.455	168	1479885	5.84	ug/ml	99
52) 4-Nitrophenol	12.363	109	47121	4.66	ug/ml	82
53) 2,4-Dinitrotoluene	12.466	165	243927	5.05	ug/ml#	86
54) 2,3,5,6-Tetrachlorophenol	12.661	232	140576	4.80	ug/ml	98
55) 2,3,4,6-Tetrachlorophenol	12.758	232	177580	5.03	ug/ml	96
56) Diethyl phthalate	13.096	149	1174127	5.52	ug/ml	97
57) Fluorene	13.256	166	1223534	5.76	ug/ml	100
58) 4-Chlorophenyl phenyl ...	13.308	204	622055	5.58	ug/ml	98
59) 4-Nitroaniline	13.319	138	136981	5.26	ug/ml#	86
60) 4,6-Dinitro-2-methylph...	13.416	198	27787	6.06	ug/ml#	72
61) N-Nitrosodiphenylamine	13.588	169	992796	5.61	ug/ml	98
62) Azobenzene	13.674	77	1092936	6.14	ug/ml	98
65) 4-Bromophenyl phenyl e...	14.458	248	334239	5.19	ug/ml	96
66) Hexachlorobenzene	14.549	284	419991	5.32	ug/ml	97
67) Pentachlorophenol	14.984	266	48550	6.37	ug/ml	97
68) Phenanthrene	15.350	178	1601335	5.98	ug/ml	97
69) Anthracene	15.436	178	1553235	5.95	ug/ml	96
70) Carbazole	15.722	167	1277242	5.84	ug/ml#	98
71) Di-n-butyl phthalate	16.289	149	1481957	5.35	ug/ml#	94
72) Fluoranthene	17.021	202	1623593	5.83	ug/ml	96
74) Pyrene	17.284	202	1651990	6.14	ug/ml	95
76) Butyl benzyl phthalate	17.982	149	309444	4.58	ug/ml#	81
77) Bis (2-ethylhexyl) adi...	18.051	129	272670	4.63	ug/ml#	84
78) Benzo (a) anthracene	18.543	228	1313601	6.02	ug/ml	97
79) Chrysene	18.578	228	1293763	6.03	ug/ml	93
80) Bis (2-ethylhexyl) pht...	18.532	149	548321	4.76	ug/ml	99
82) Di-n-octyl phthalate	19.110	149	652358	4.75	ug/ml	99
83) Benzo (b) fluoranthene	19.539	252	1011575	5.05	ug/ml	97
84) Benzo (k) fluoranthene	19.567	252	1275893	5.83	ug/ml	96
85) Benzo (a) pyrene	19.876	252	974925	5.16	ug/ml	98
86) Indeno (1,2,3-cd) pyrene	21.221	276	1057818	4.85	ug/ml	93
87) Dibenz (a,h) anthracene	21.227	278	815127	4.83	ug/ml	98
88) Benzo (g,h,i) perylene	21.605	276	879920	4.98	ug/ml	94

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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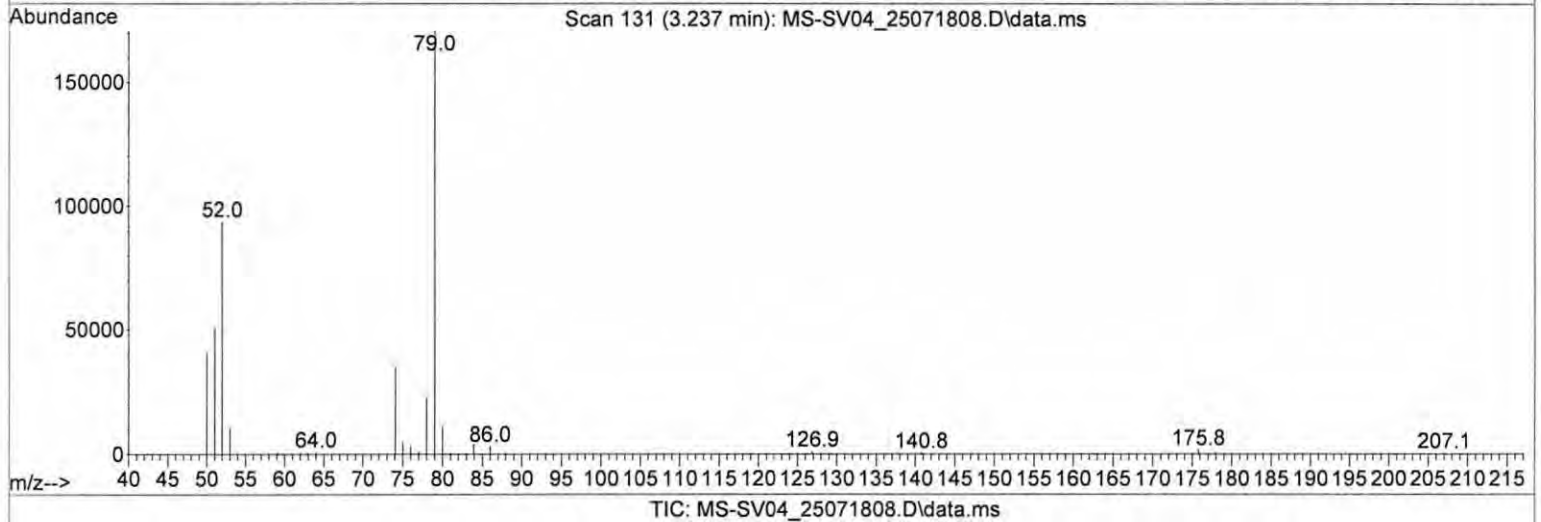
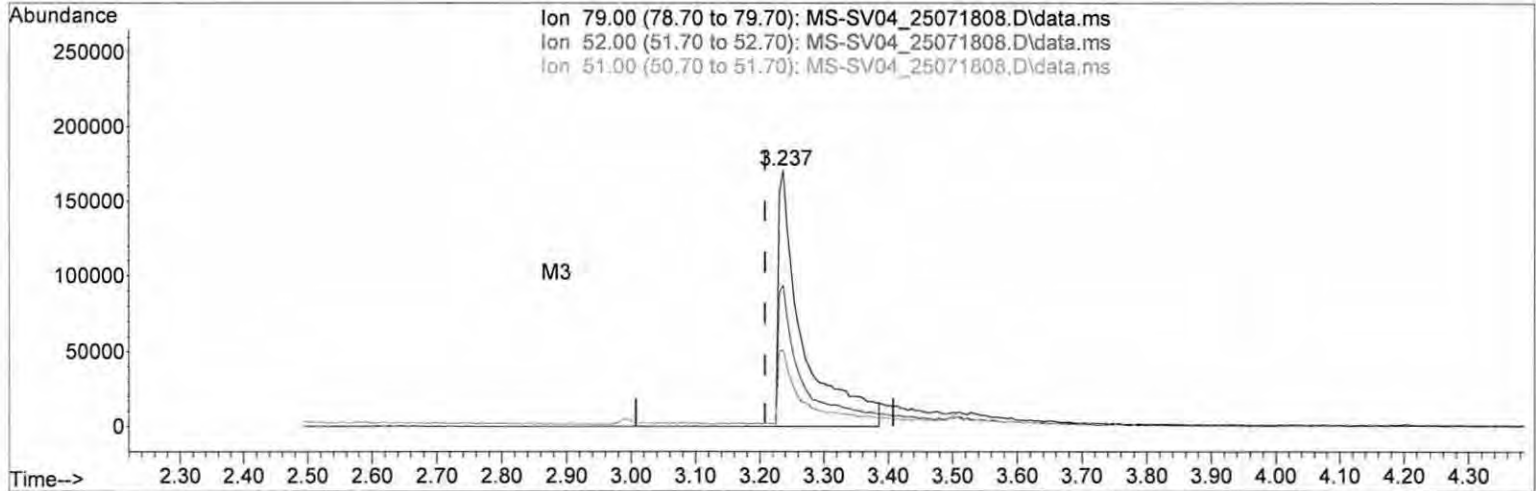
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

84 of 521

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071808.D\data.ms

(2) Pyridine (T)

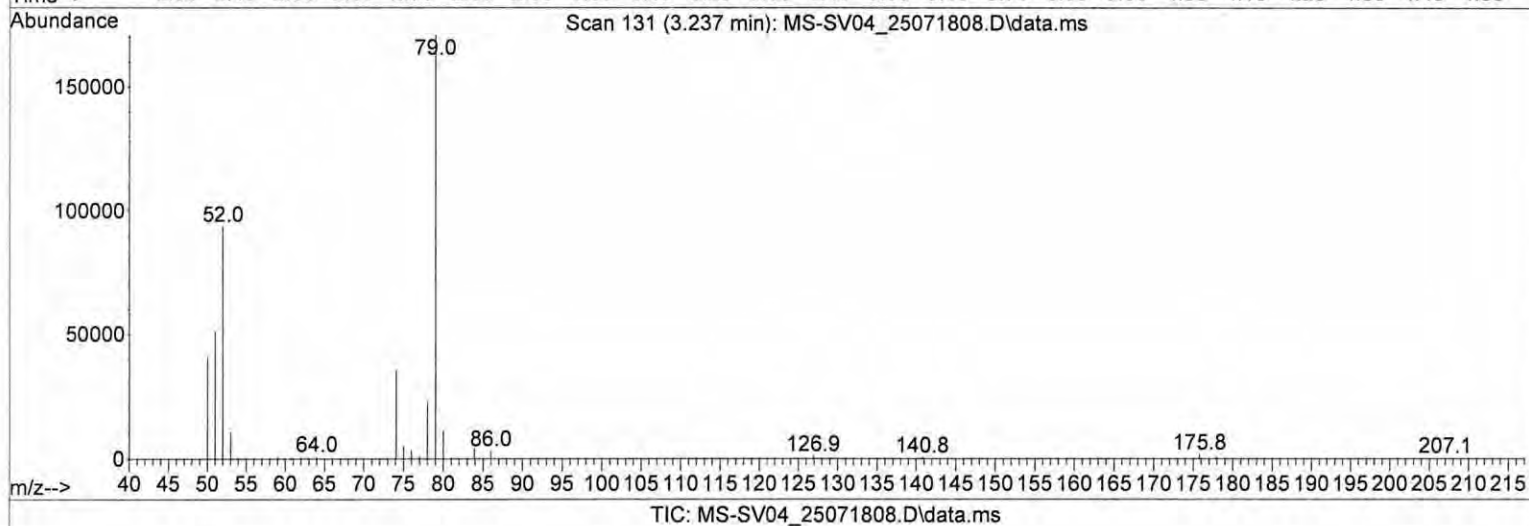
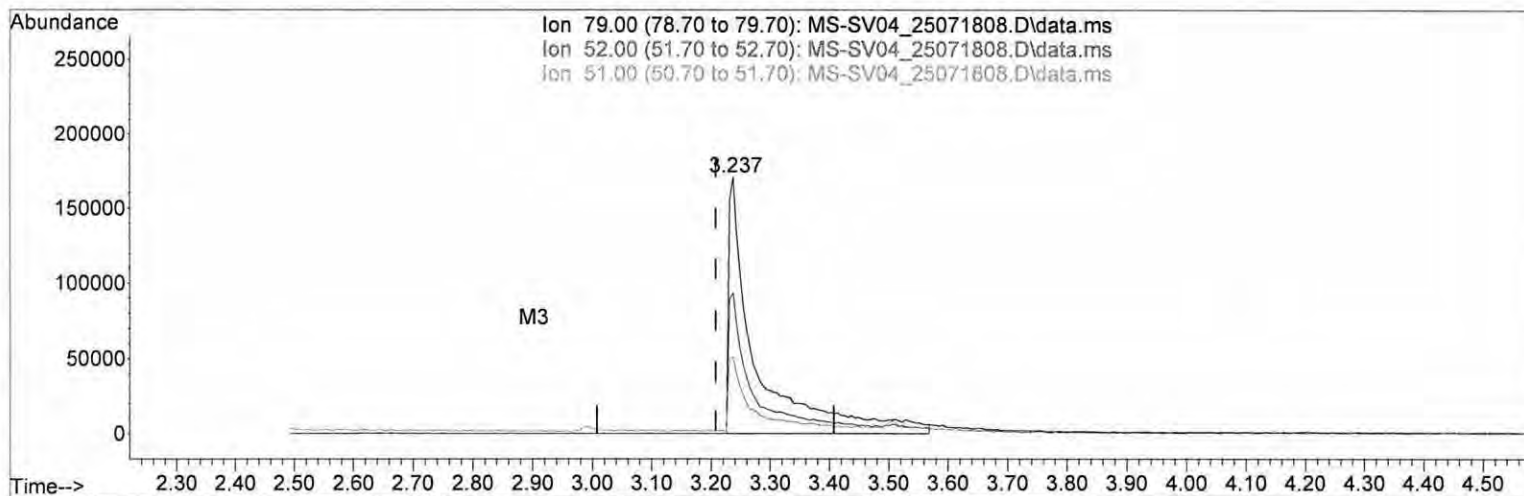
3.237min (+ 0.029) 4.06 ug/ml

response 447842

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.77#
51.00	62.40	27.36#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071808.D\data.ms

(2) Pyridine (T)

3.237min (+ 0.029) 5.05 ug/ml m

response 556708

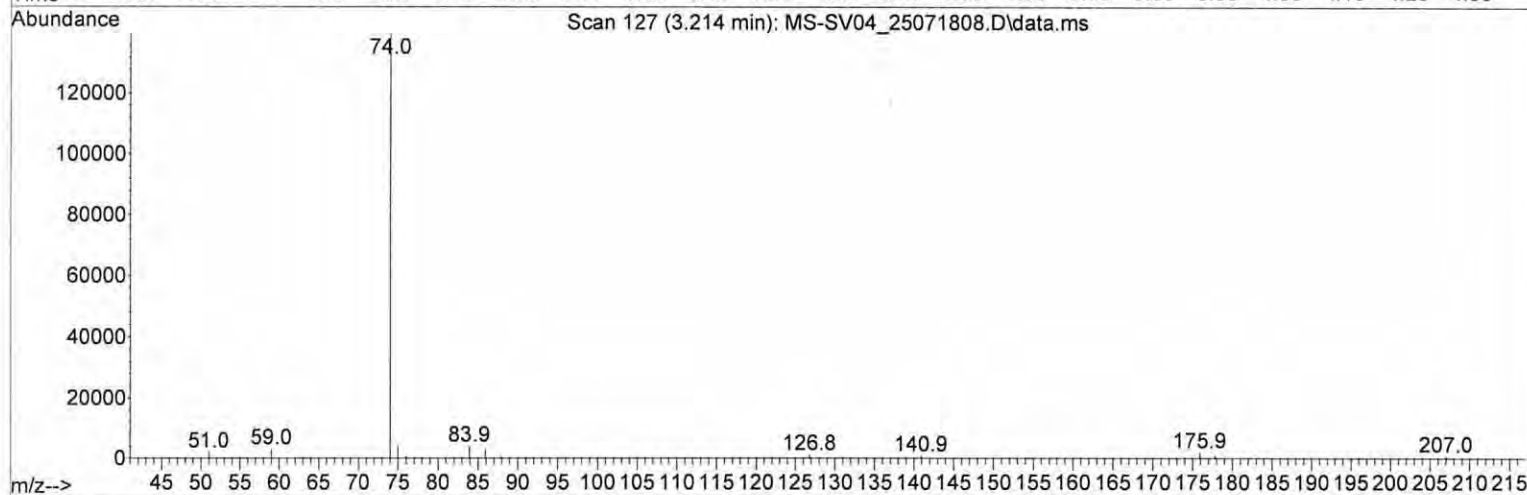
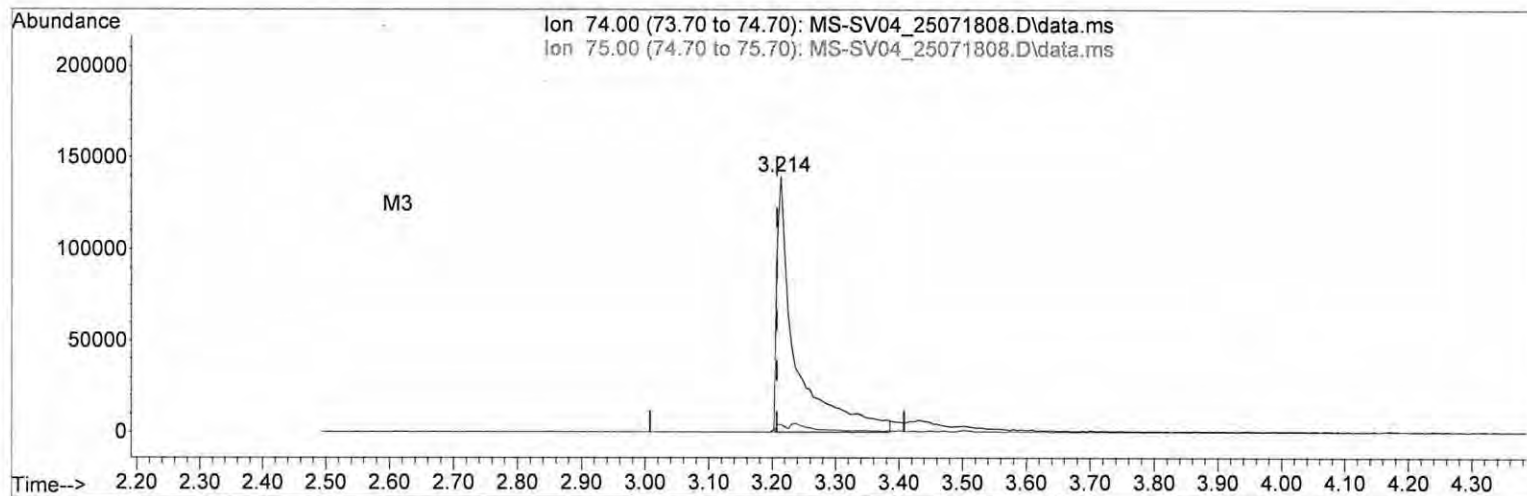
Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	44.06#
51.00	62.40	22.01#
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

86 of 521

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071808.D\data.ms

(3) N-Nitrosodimethylamine (T)

3.214min (+ 0.006) 4.63 ug/ml

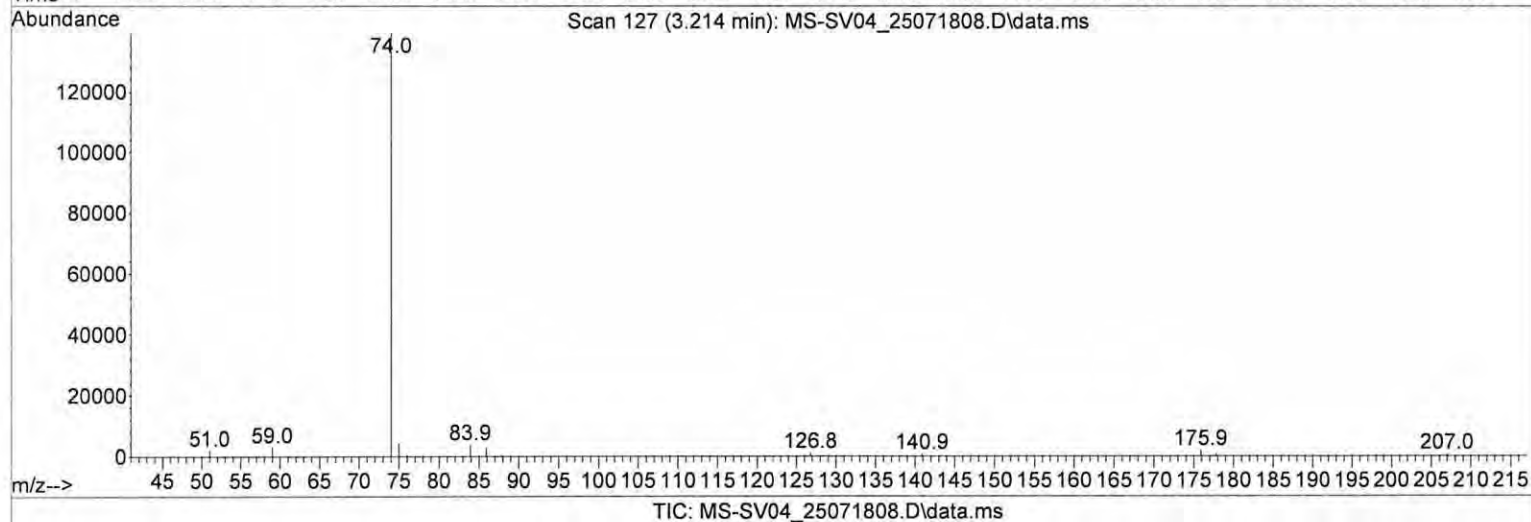
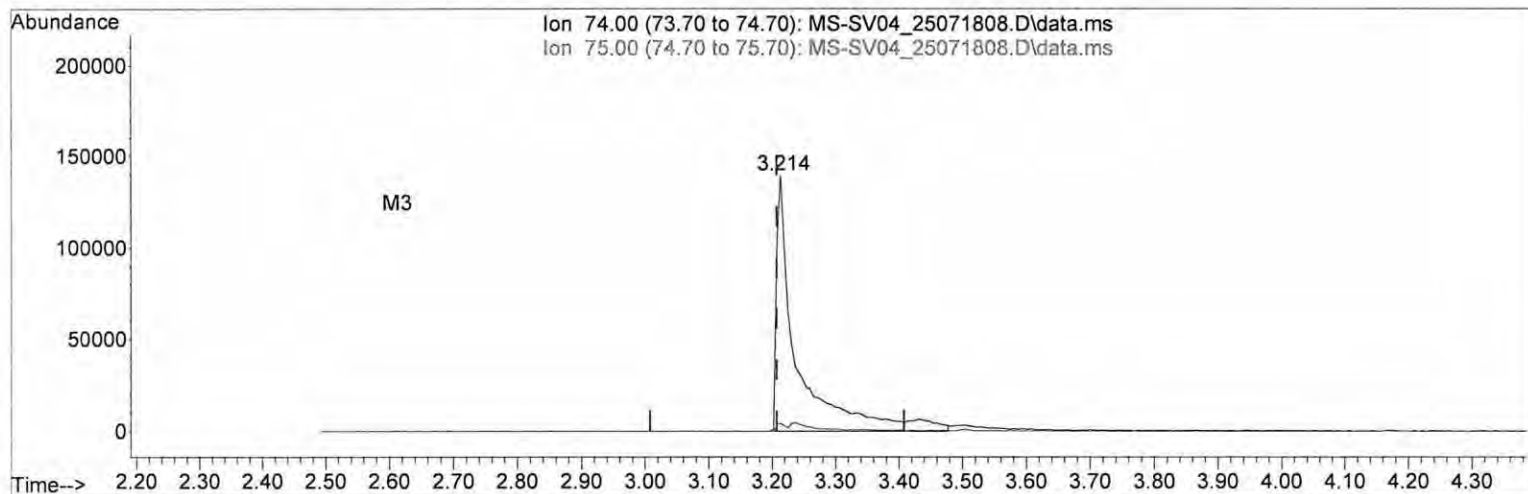
response 288883

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	1.53#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

87 of 521

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071808.D\data.ms

(3) N-Nitrosodimethylamine (T)

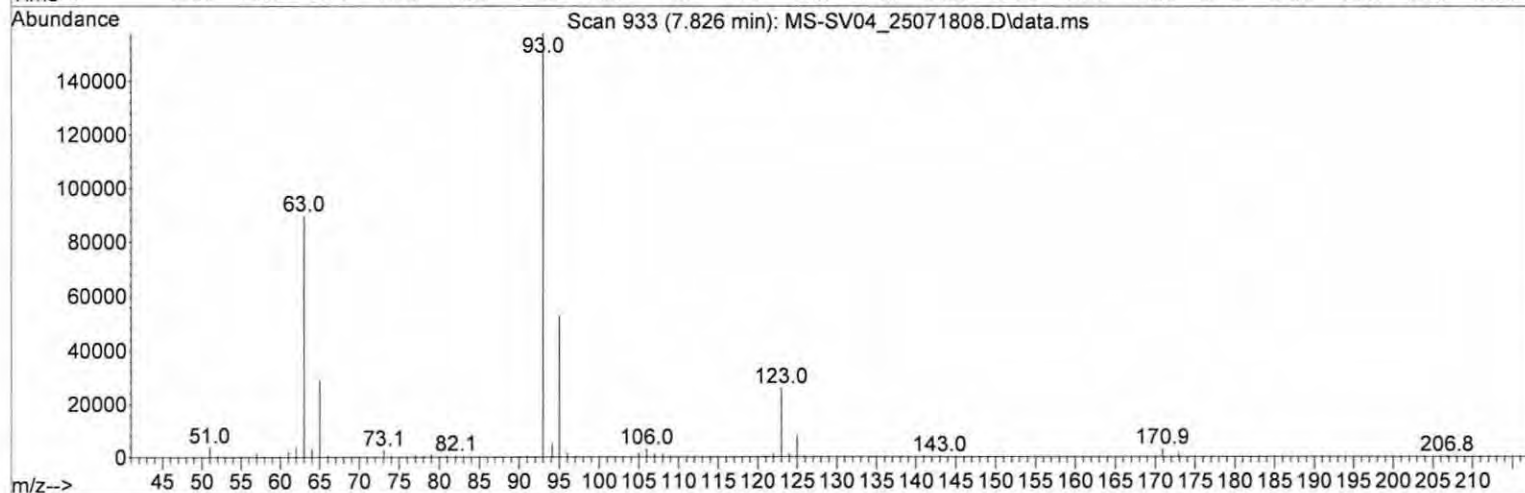
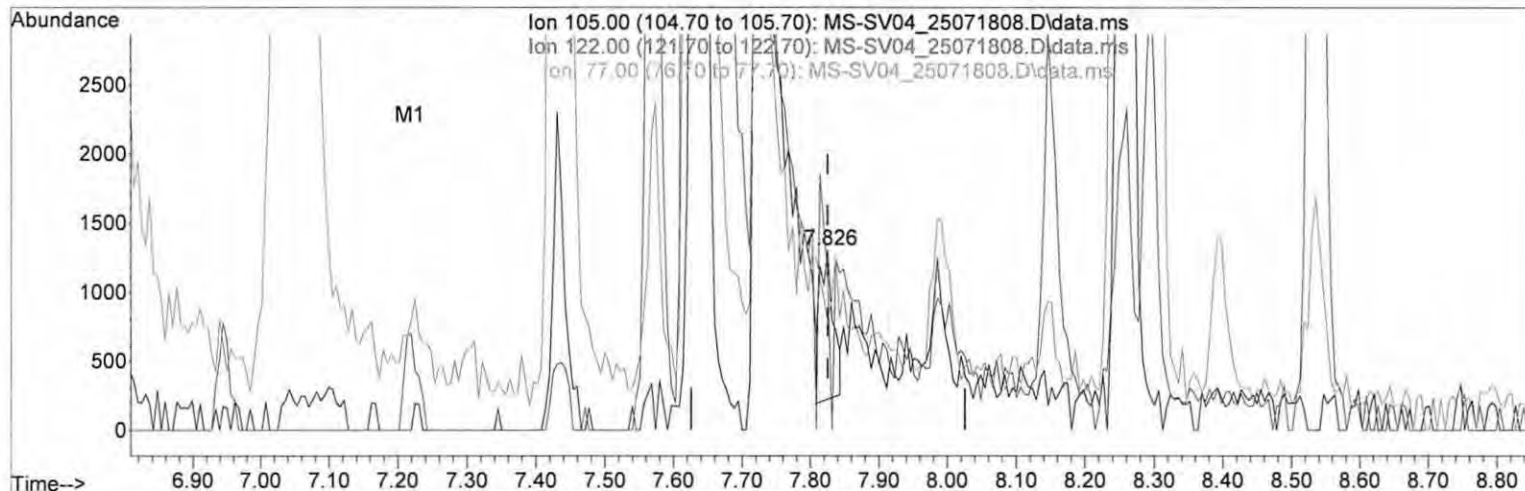
3.214min (+ 0.006) 5.08 ug/ml m

response 317070

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071808.D\data.ms

(28) Benzoic acid (T)

7.826min (-0.000) 4.62 ug/ml

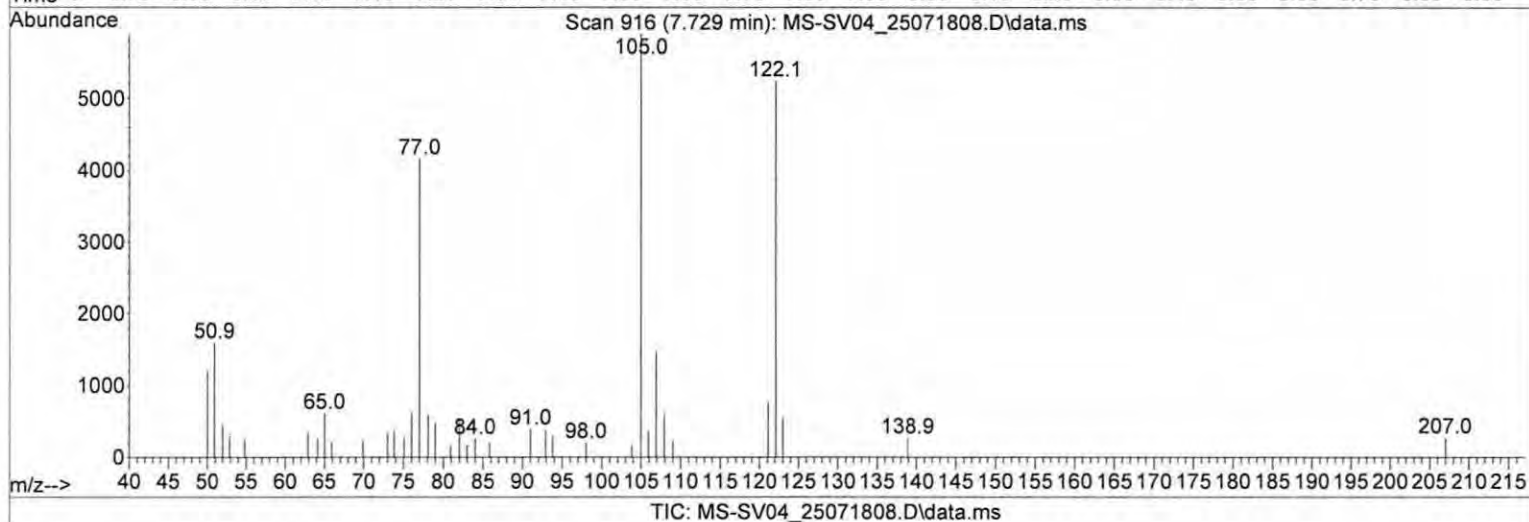
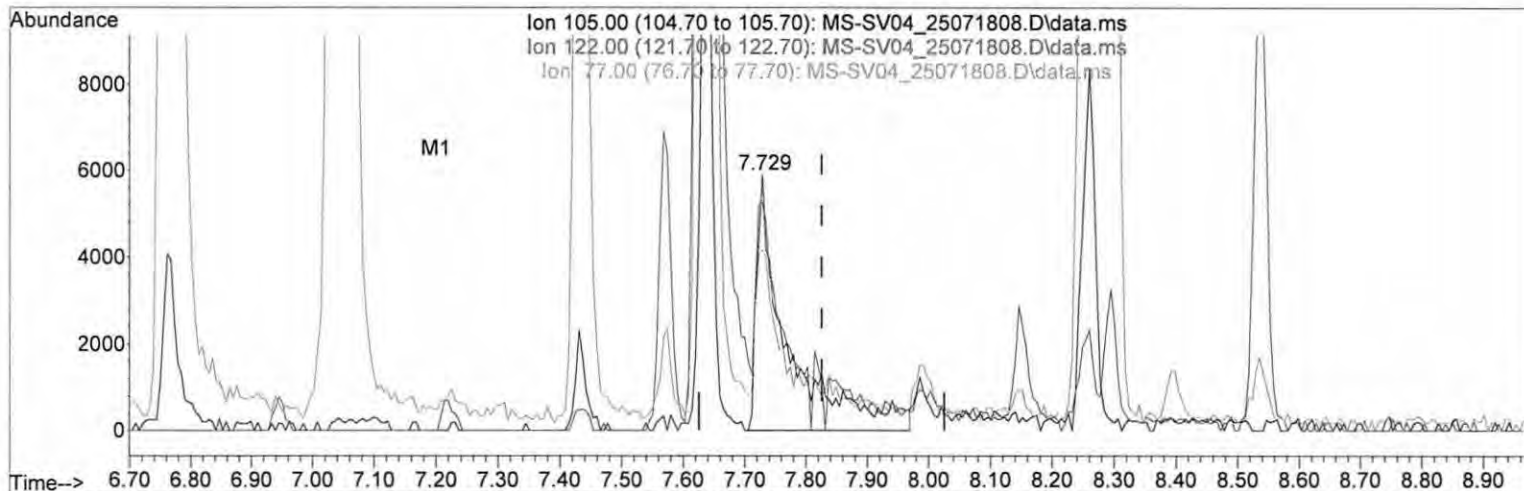
response 1473

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	249.83#
77.00	60.90	63.48
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071808.D
Acq On : 18 Jul 2025 05:42 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : SVOC
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 09:19:41 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(28) Benzoic acid (T)

7.729min (-0.097) 5.02 ug/ml m

response 20788

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	17.70#
77.00	60.90	4.50#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071809.D
 Acq On : 18 Jul 2025 06:10 pm
 Operator : BMS
 Sample : SEQ-CAL3
 Misc : SVOC
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3389415	40.00	ug/ml	0.00
21) Naphthalene-d8	8.261	136	10595413	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.986	164	6209381	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.316	188	8790661	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.549	240	6516536	40.00	ug/ml	-0.01
81) Perylene-d12	19.940	264	7163613	40.00	ug/ml	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	1150888	10.49	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	10.49%
5) Phenol-d5	5.749	99	1294613	10.95	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	10.95%
19) Nitrobenzene-d5	7.013	82	1030712	10.58	ug/ml	-0.01
Spiked Amount	50.000	Range	10 - 99	Recovery	=	21.16%
39) 2-Fluorobiphenyl	10.487	172	2514926	11.32	ug/ml	-0.01
Spiked Amount	50.000	Range	23 - 87	Recovery	=	22.64%#
64) 2,4,6-Tribromophenol	13.823	330	240958	8.80	ug/ml	-0.01
Spiked Amount	100.000	Range	20 - 86	Recovery	=	8.80%#
75) p-Terphenyl-d14	17.468	244	2146598	11.30	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	22.60%#

Target Compounds				Qvalue		
2) Pyridine	3.225	79	1069170m	10.44	ug/ml	
3) N-Nitrosodimethylamine	3.208	74	605215m	10.44	ug/ml	
6) Aniline	5.818	93	1520876	10.78	ug/ml	93
7) Phenol	5.766	94	1437714	12.28	ug/ml#	86
8) Bis (2-chloroethyl) ether	5.880	93	1116758	11.15	ug/ml#	76
9) 2-Chlorophenol	5.949	128	1124418	10.46	ug/ml	92
10) 1,3-Dichlorobenzene	6.138	146	1357088	10.65	ug/ml	96
11) 1,4-Dichlorobenzene	6.235	146	1313714	10.56	ug/ml	97
12) Benzyl alcohol	6.390	108	641768	10.28	ug/ml	88
13) 1,2-Dichlorobenzene	6.441	146	1291821	10.66	ug/ml	95
14) o-Cresol	6.539	108	987689	10.75	ug/ml	93
15) Bis (2-chloroisopropyl)...	6.584	121	420029	10.57	ug/ml	93
16) p-Cresol	6.767	107	1052260	10.82	ug/ml	94
17) N-nitrosodi-n-propyl a...	6.779	70	663447	10.76	ug/ml	98
18) Hexachloroethane	6.945	117	486832	10.46	ug/ml	99
20) Nitrobenzene	7.048	77	1026194	10.93	ug/ml#	67
22) Isophorone	7.437	82	1989355	11.19	ug/ml	99
23) 2-Nitrophenol	7.569	139	381054	9.38	ug/ml	92
24) 2,4-Dimethylphenol	7.637	122	935555	10.96	ug/ml	91
25) Bis (2-chloroethoxy) m...	7.815	93	1219689	11.40	ug/ml	99
26) 2,4-Dichlorophenol	7.992	162	837444	10.50	ug/ml	97
27) 1,2,4-Trichlorobenzene	8.152	180	1071631	10.67	ug/ml	96
28) Benzoic acid	7.740	105	81224m	6.41	ug/ml	
29) Naphthalene	8.295	128	3098760	11.19	ug/ml	98
30) 4-Chloroaniline	8.398	127	1156504	10.75	ug/ml#	96
31) Hexachlorobutadiene	8.541	225	668904	10.39	ug/ml	99
32) p-Chloro-m-cresol	9.377	107	792619	10.48	ug/ml	89

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071809.D
 Acq On : 18 Jul 2025 06:10 pm
 Operator : BMS
 Sample : SEQ-CAL3
 Misc : SVOC
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.680	142	1929097	11.06	ug/ml	99
34) 1-Methylnaphthalene	9.880	142	1996961	11.04	ug/ml	97
35) Hexachlorocyclopentadiene	10.023	237	173938	8.42	ug/ml	97
37) 2,4,6-Trichlorophenol	10.292	196	516656	9.84	ug/ml	97
38) 2,4,5-Trichlorophenol	10.361	198	501366	9.63	ug/ml	97
40) 2-Chloronaphthalene	10.721	162	1898191	10.94	ug/ml#	97
41) 2-Nitroaniline	10.967	65	322899	9.78	ug/ml#	86
42) 1,4-Dinitrobenzene	11.299	75	203131	9.06	ug/ml#	45
43) 1,2-Dinitrobenzene	11.637	168	203877	10.06	ug/ml#	56
44) Dimethyl phthalate	11.437	163	2190017	10.93	ug/ml#	98
45) Acenaphthylene	11.648	152	3035064	11.31	ug/ml	98
46) 2,6-Dinitrotoluene	11.545	165	461425	10.40	ug/ml	88
47) 1,3-Dinitrobenzene	11.465	168	269431	9.61	ug/ml#	67
48) 3-Nitroaniline	11.906	138	391236	9.94	ug/ml	88
49) Acenaphthene	12.055	154	1802035	11.01	ug/ml	100
50) 2,4-Dinitrophenol	12.163	184	27291	9.10	ug/ml#	90
51) Dibenzofuran	12.455	168	2518453	10.86	ug/ml	99
52) 4-Nitrophenol	12.358	109	122714	7.95	ug/ml	84
53) 2,4-Dinitrotoluene	12.467	165	505850	9.88	ug/ml#	89
54) 2,3,5,6-Tetrachlorophenol	12.661	232	311870	8.49	ug/ml	98
55) 2,3,4,6-Tetrachlorophenol	12.758	232	353564	8.74	ug/ml	98
56) Diethyl phthalate	13.102	149	2109051	10.84	ug/ml	96
57) Fluorene	13.256	166	2094731	10.79	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.308	204	1066000	10.45	ug/ml	98
59) 4-Nitroaniline	13.319	138	243516	9.21	ug/ml#	94
60) 4,6-Dinitro-2-methylph...	13.416	198	80184	8.11	ug/ml#	74
61) N-Nitrosodiphenylamine	13.594	169	1691581	10.46	ug/ml	98
62) Azobenzene	13.674	77	1831780	11.24	ug/ml	98
65) 4-Bromophenyl phenyl e...	14.464	248	592877	10.40	ug/ml	97
66) Hexachlorobenzene	14.549	284	721371	10.31	ug/ml	97
67) Pentachlorophenol	14.979	266	121518	8.52	ug/ml	99
68) Phenanthrene	15.350	178	2661716	11.22	ug/ml	97
69) Anthracene	15.436	178	2594371	11.22	ug/ml	97
70) Carbazole	15.722	167	2130350	11.00	ug/ml#	98
71) Di-n-butyl phthalate	16.289	149	2927871	11.92	ug/ml#	94
72) Fluoranthene	17.021	202	2664566	10.80	ug/ml	96
74) Pyrene	17.285	202	2756241	11.41	ug/ml	95
76) Butyl benzyl phthalate	17.983	149	746774	9.23	ug/ml#	83
77) Bis (2-ethylhexyl) adi...	18.046	129	651629	9.51	ug/ml#	84
78) Benzo (a) anthracene	18.543	228	2224338	11.37	ug/ml	97
79) Chrysene	18.578	228	2138783	11.11	ug/ml	95
80) Bis (2-ethylhexyl) pht...	18.532	149	1223087	10.13	ug/ml#	97
82) Di-n-octyl phthalate	19.104	149	1587704	8.83	ug/ml	98
83) Benzo (b) fluoranthene	19.539	252	1950031	10.36	ug/ml	98
84) Benzo (k) fluoranthene	19.568	252	2261541	10.99	ug/ml	96
85) Benzo (a) pyrene	19.871	252	1867395	10.52	ug/ml	98
86) Indeno (1,2,3-cd) pyrene	21.221	276	2041732	9.96	ug/ml	91
87) Dibenz (a,h) anthracene	21.227	278	1595257	10.05	ug/ml	96
88) Benzo (g,h,i) perylene	21.605	276	1663195	10.01	ug/ml	93

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

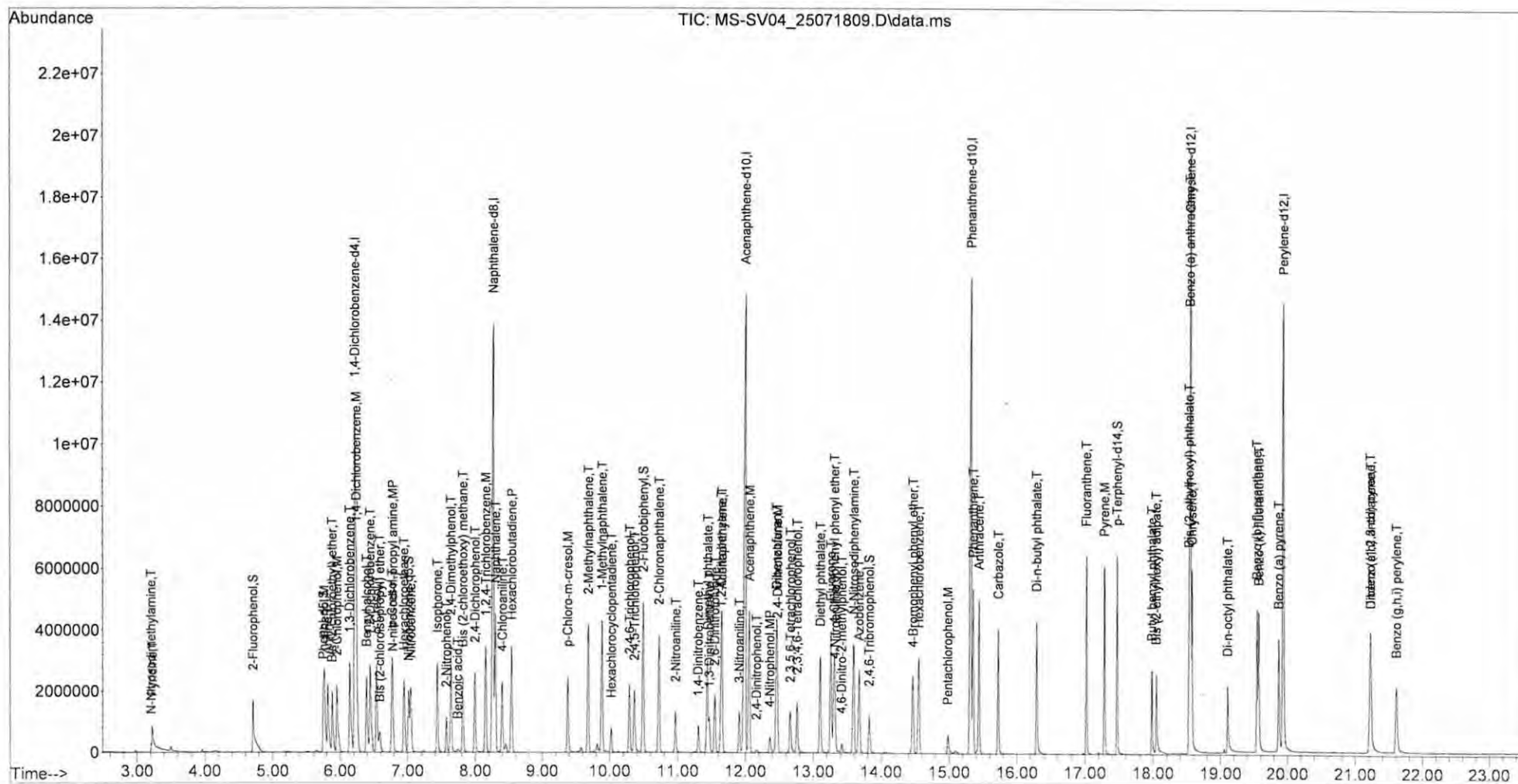
Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



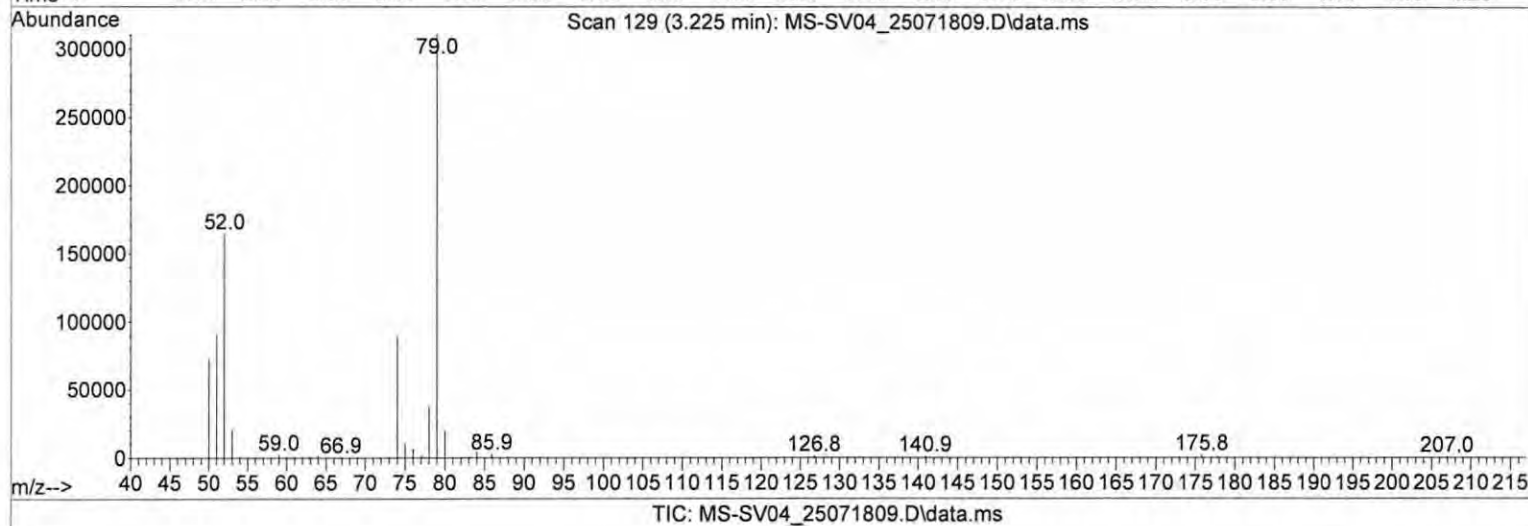
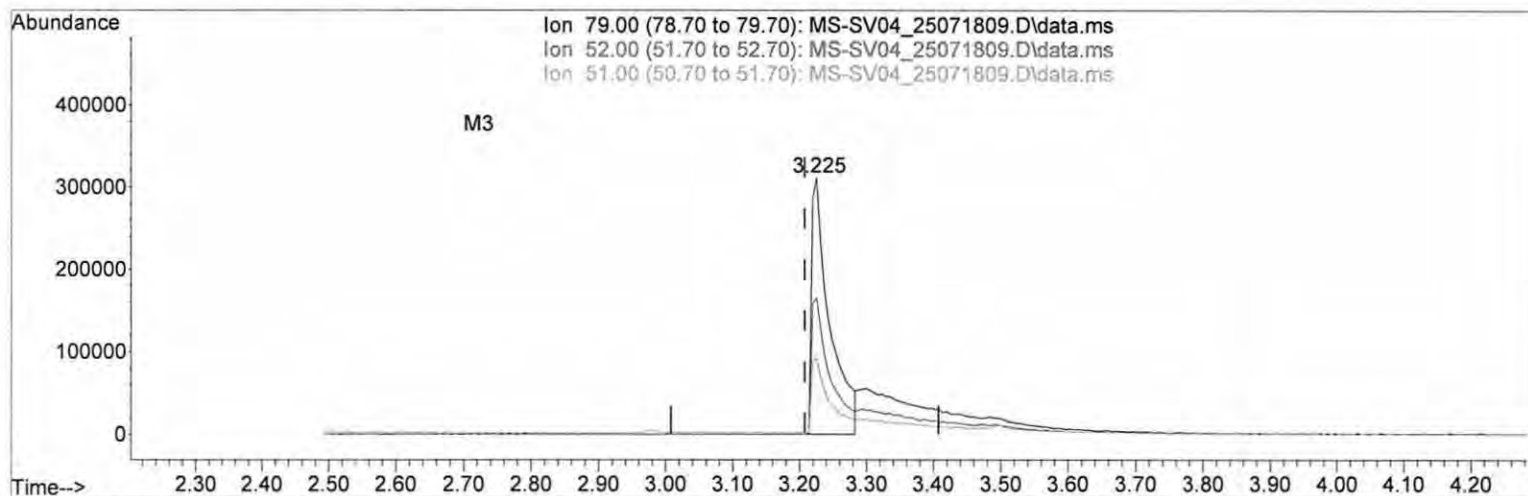
Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

94 of 521

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(2) Pyridine (T)

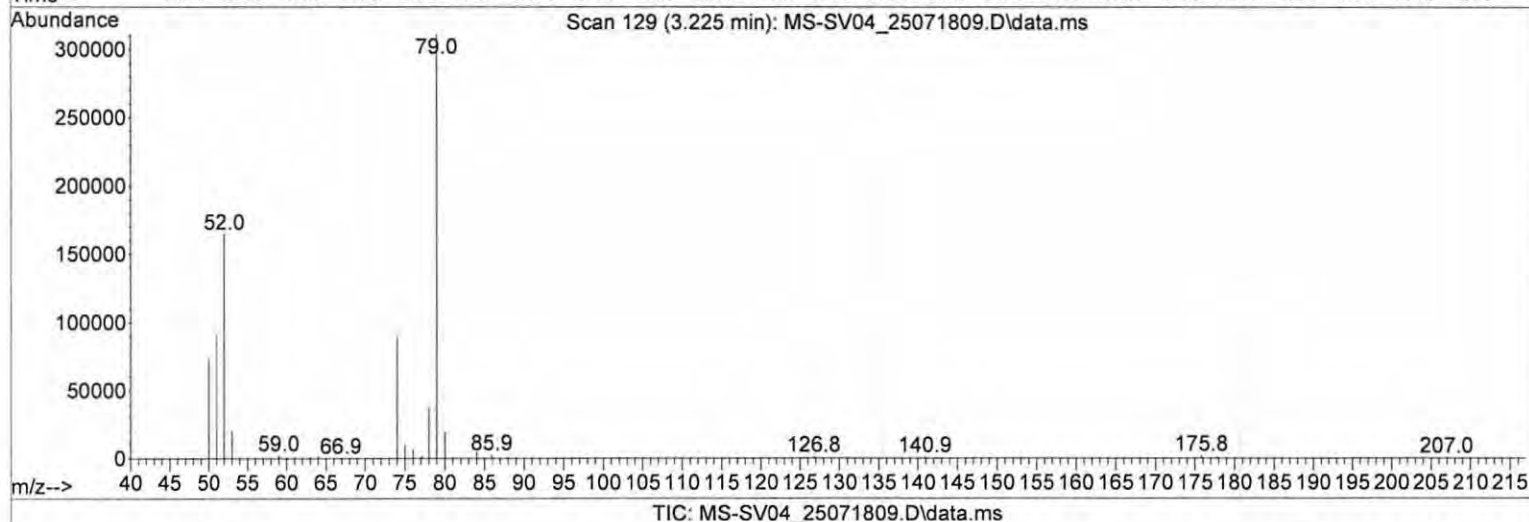
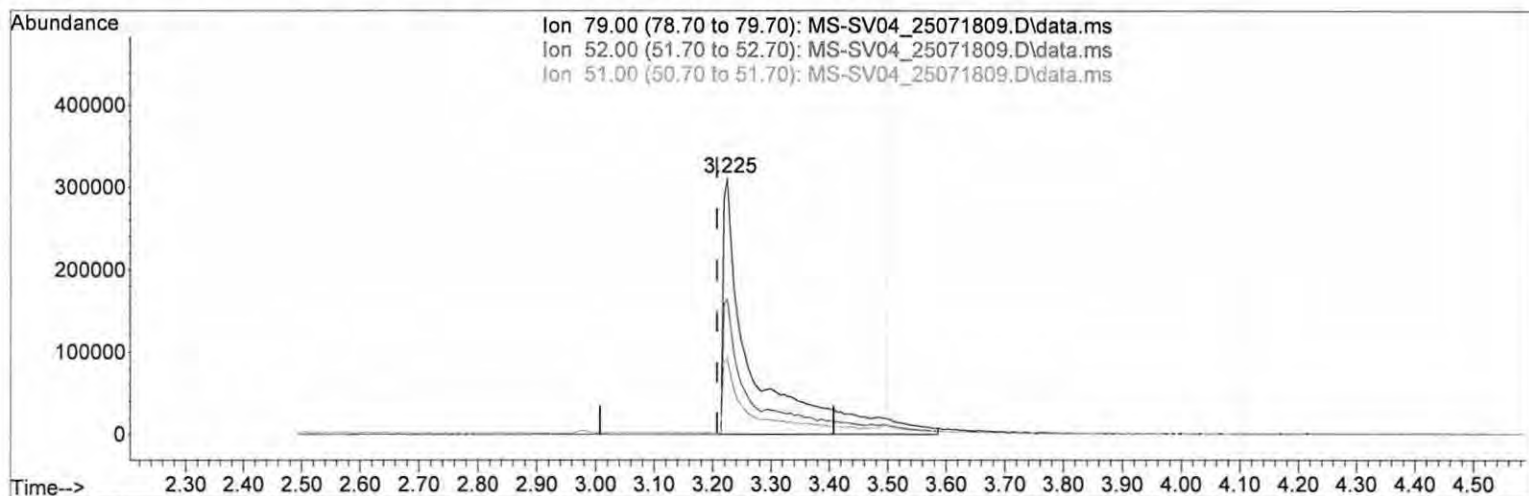
3.225min (+ 0.017) 5.65 ug/ml

response 579124

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.15#
51.00	62.40	42.86#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071809.D\data.ms

(2) Pyridine (T)

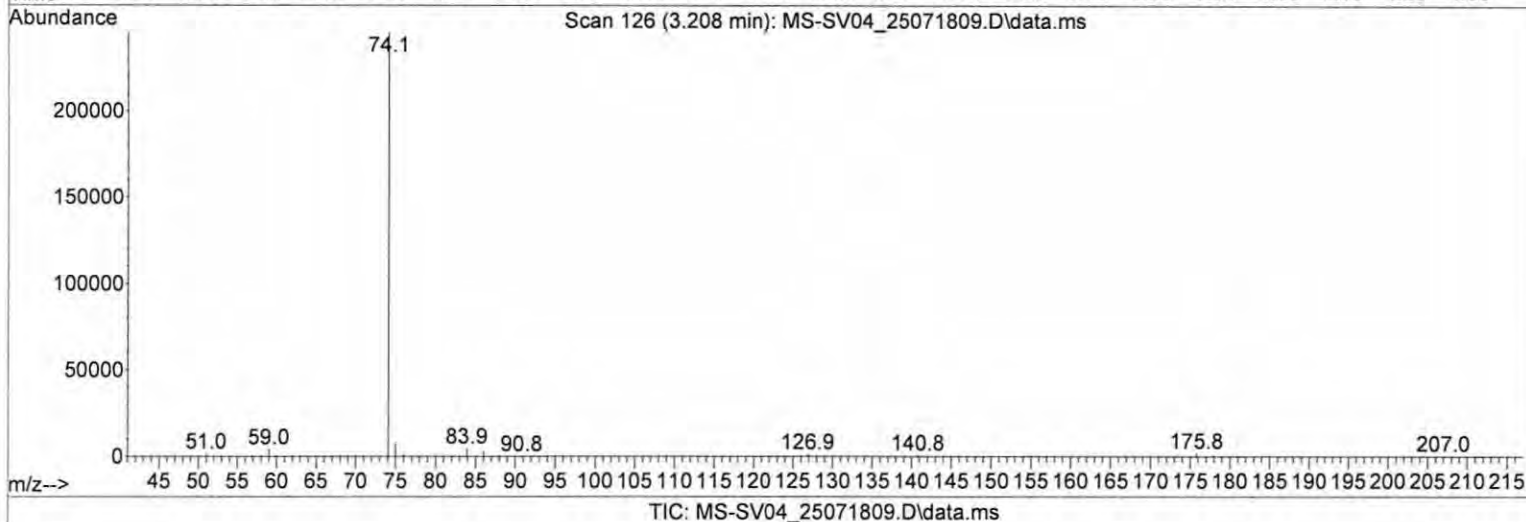
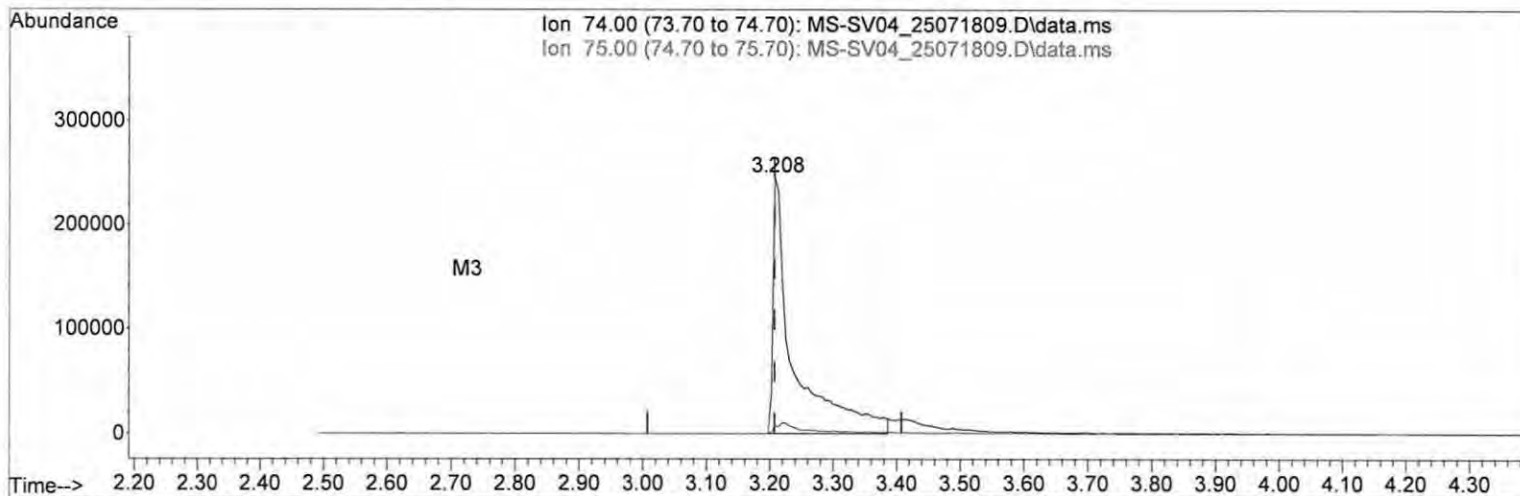
3.225min (+ 0.017) 10.44 ug/ml m

response 1069170

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	29.33#
51.00	62.40	23.21#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071809.D\data.ms

(3) N-Nitrosodimethylamine (T)

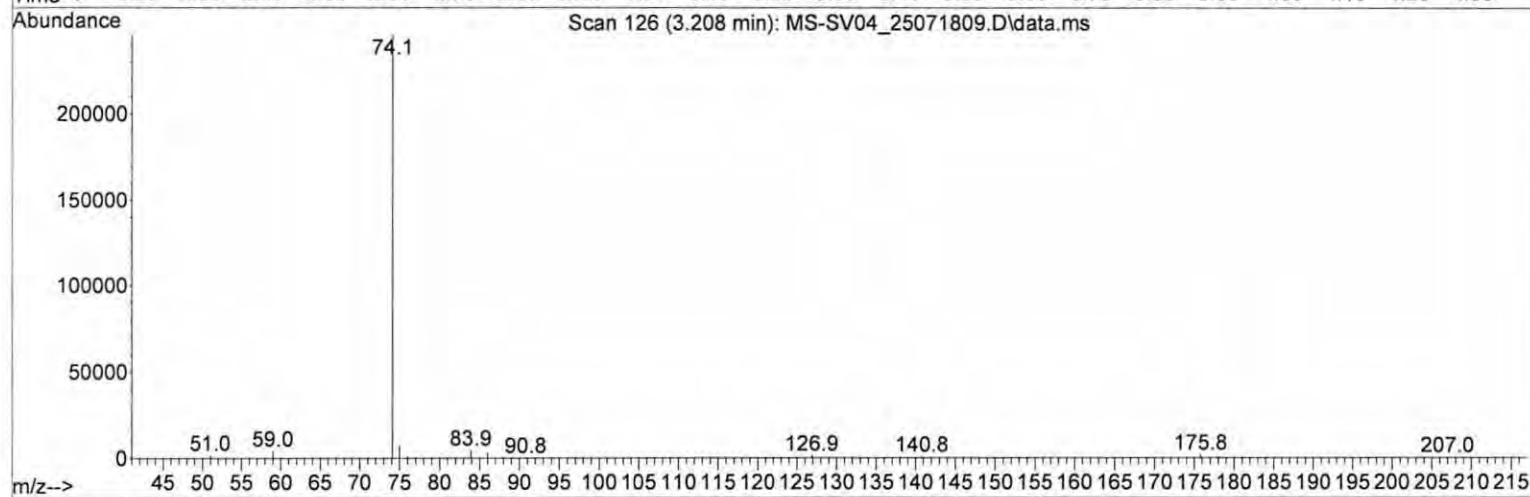
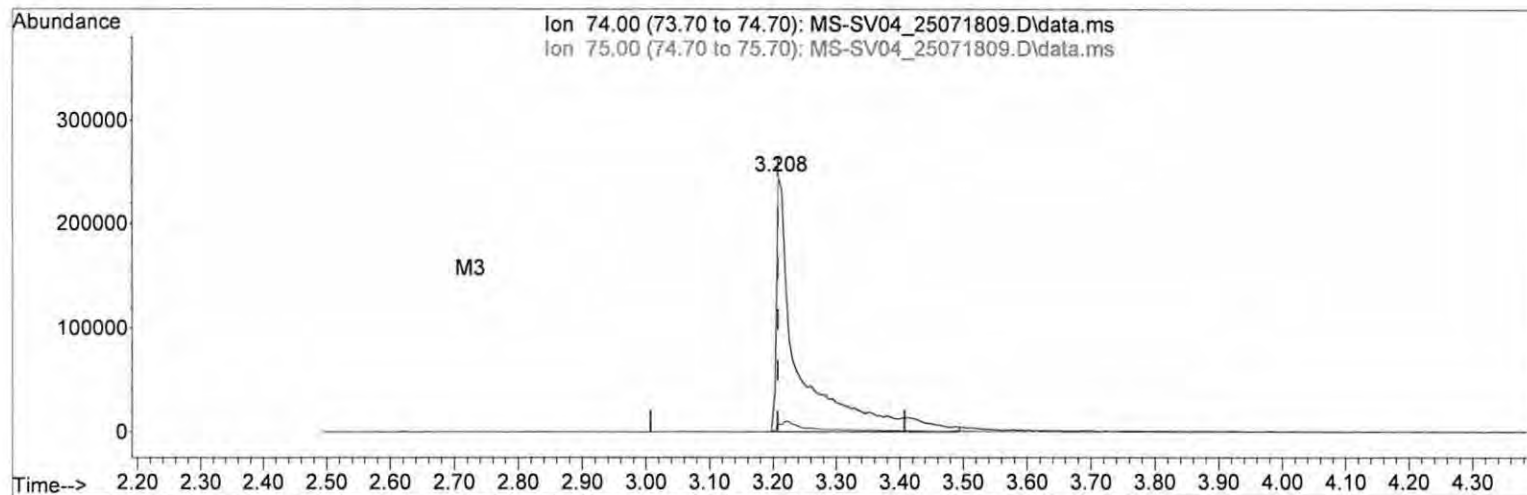
3.208min (+ 0.000) 9.43 ug/ml

response 546810

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.52
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071809.D\data.ms

(3) N-Nitrosodimethylamine (T)

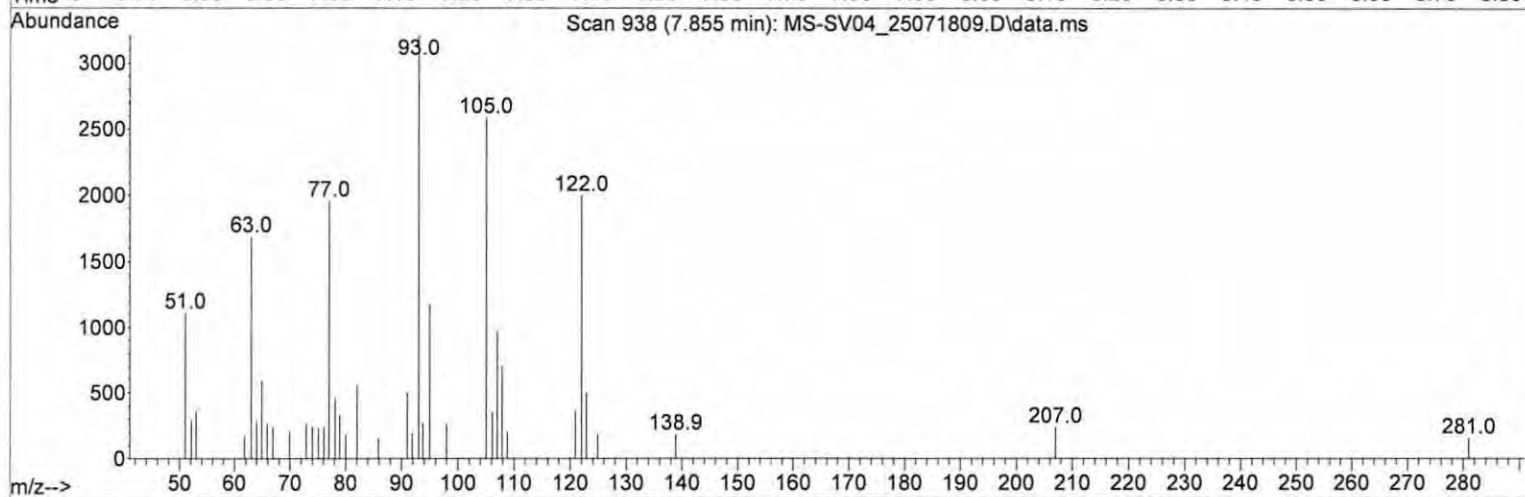
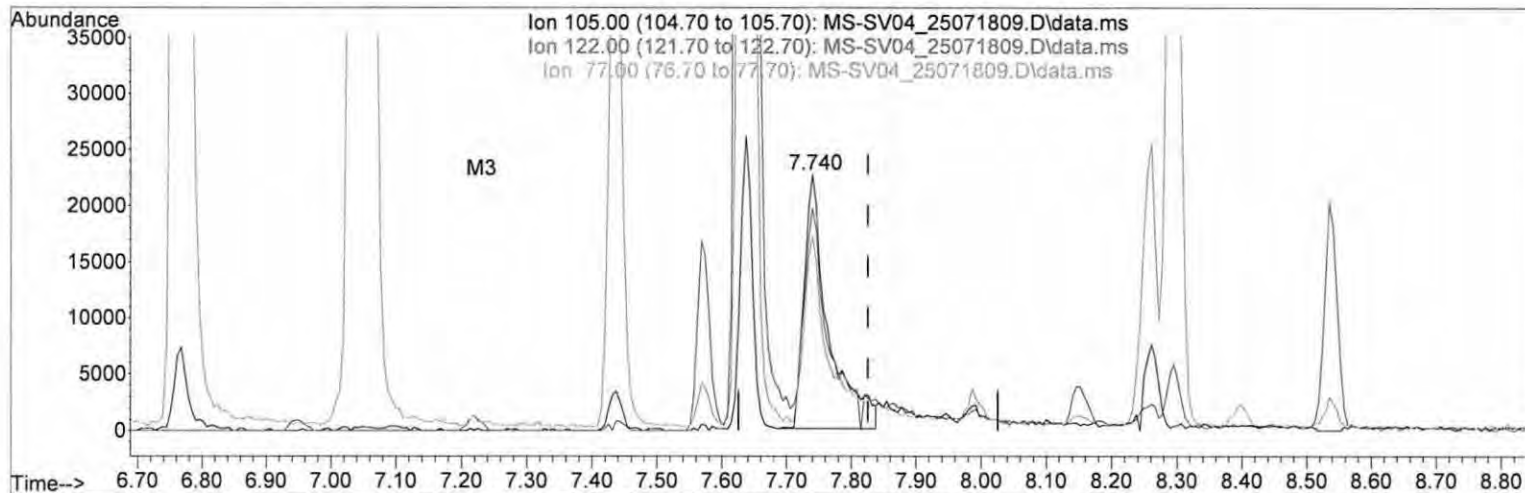
3.208min (+ 0.000) 10.44 ug/ml m

response 605215

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	4.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071809.D\data.ms

(28) Benzoic acid (T)

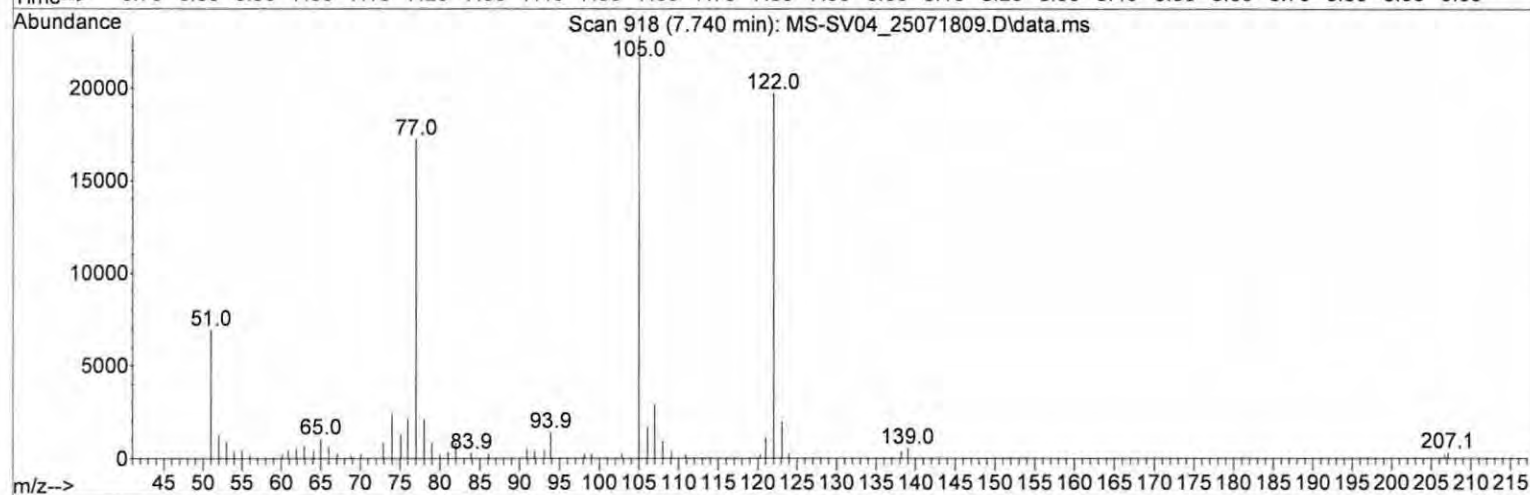
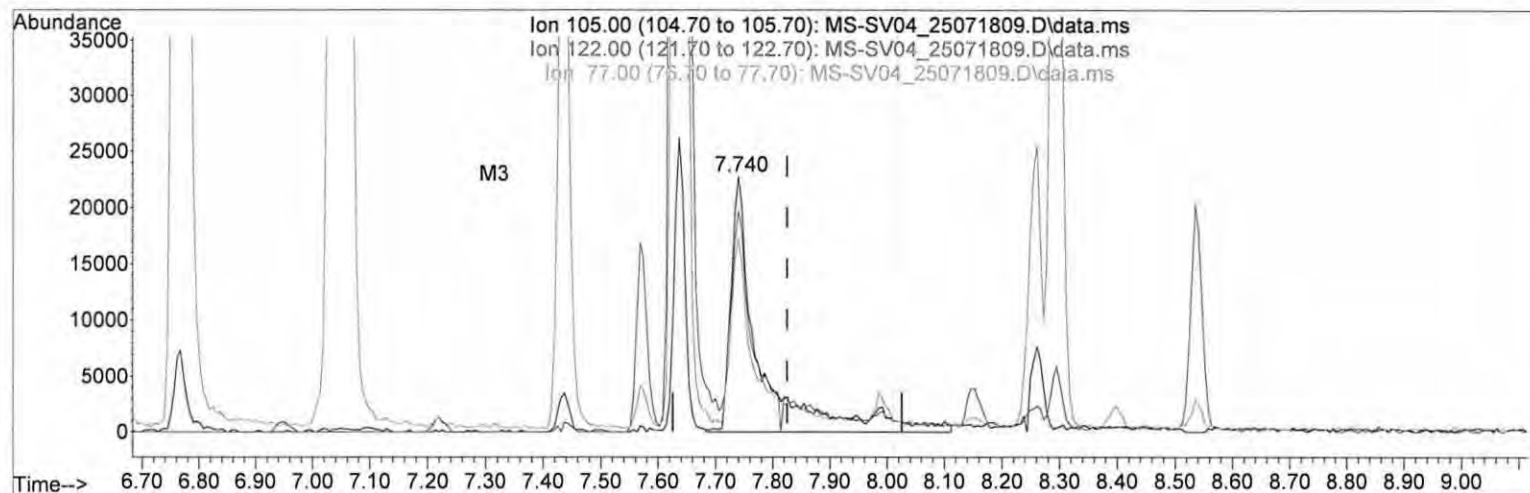
7.740min (-0.086) 5.91 ug/ml

response 59123

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	86.77#
77.00	60.90	68.75
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071809.D
Acq On : 18 Jul 2025 06:10 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : SVOC
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 09:19:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071809.D\data.ms

(28) Benzoic acid (T)

7.740min (-0.086) 6.41 ug/ml m

response 81224

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	63.16
77.00	60.90	50.05
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071810.D
 Acq On : 18 Jul 2025 06:40 pm
 Operator : BMS
 Sample : SEQ-CAL4
 Misc : SVOC
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3377268	40.00	ug/ml	0.00
21) Naphthalene-d8	8.261	136	10722679	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.992	164	6450379	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.316	188	9776766	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.555	240	7208329	40.00	ug/ml	0.00
81) Perylene-d12	19.939	264	7883047	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	2389364	21.86	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	21.86%		
5) Phenol-d5	5.755	99	2611329	22.16	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	22.16%		
19) Nitrobenzene-d5	7.019	82	2194162	22.60	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	45.20%		
39) 2-Fluorobiphenyl	10.492	172	5069308	21.97	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	43.94%		
64) 2,4,6-Tribromophenol	13.828	330	688081	19.16	ug/ml	0.00
Spiked Amount 100.000	Range 20 - 86		Recovery =	19.16%#		
75) p-Terphenyl-d14	17.468	244	4918757	23.42	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	46.84%		
Target Compounds						
					Qvalue	
2) Pyridine	3.220	79	2207637m	21.63	ug/ml	
3) N-Nitrosodimethylamine	3.214	74	1276807m	22.10	ug/ml	
6) Aniline	5.817	93	3111705	22.13	ug/ml	93
7) Phenol	5.772	94	2839601	24.35	ug/ml#	87
8) Bis (2-chloroethyl) ether	5.886	93	2174674	21.79	ug/ml#	75
9) 2-Chlorophenol	5.949	128	2322794	21.68	ug/ml	92
10) 1,3-Dichlorobenzene	6.144	146	2699352	21.27	ug/ml	97
11) 1,4-Dichlorobenzene	6.235	146	2631538	21.23	ug/ml	98
12) Benzyl alcohol	6.390	108	1387792	22.31	ug/ml	89
13) 1,2-Dichlorobenzene	6.447	146	2558692	21.19	ug/ml	96
14) o-Cresol	6.538	108	1982737	21.66	ug/ml	93
15) Bis (2-chloroisopropyl)...	6.590	121	843722	21.31	ug/ml	90
16) p-Cresol	6.773	107	2098757	21.66	ug/ml	94
17) N-nitrosodi-n-propyl a...	6.785	70	1338059	21.78	ug/ml	96
18) Hexachloroethane	6.945	117	1007466	21.72	ug/ml	97
20) Nitrobenzene	7.048	77	2091589	22.35	ug/ml#	67
22) Isophorone	7.443	82	3953000	21.97	ug/ml	99
23) 2-Nitrophenol	7.574	139	993392	21.52	ug/ml	92
24) 2,4-Dimethylphenol	7.643	122	1884530	21.82	ug/ml	90
25) Bis (2-chloroethoxy) m...	7.820	93	2386287	22.04	ug/ml	99
26) 2,4-Dichlorophenol	7.992	162	1798270	22.29	ug/ml	97
27) 1,2,4-Trichlorobenzene	8.152	180	2167113	21.31	ug/ml	97
28) Benzoic acid	7.780	105	417392m	13.81	ug/ml	
29) Naphthalene	8.301	128	5984229	21.36	ug/ml	99
30) 4-Chloroaniline	8.398	127	2462948	22.62	ug/ml#	96
31) Hexachlorobutadiene	8.541	225	1395373	21.43	ug/ml	99
32) p-Chloro-m-cresol	9.382	107	1758679	22.97	ug/ml	89

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071810.D
 Acq On : 18 Jul 2025 06:40 pm
 Operator : BMS
 Sample : SEQ-CAL4
 Misc : SVOC
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.680	142	3839469	21.75	ug/ml	99
34) 1-Methylnaphthalene	9.886	142	3965932	21.66	ug/ml	96
35) Hexachlorocyclopentadiene	10.023	237	666146	18.93	ug/ml	98
37) 2,4,6-Trichlorophenol	10.292	196	1237581	22.69	ug/ml	97
38) 2,4,5-Trichlorophenol	10.361	198	1242748	22.98	ug/ml	98
40) 2-Chloronaphthalene	10.727	162	3934602	21.83	ug/ml#	97
41) 2-Nitroaniline	10.973	65	857721	22.69	ug/ml#	83
42) 1,4-Dinitrobenzene	11.311	75	594650	21.98	ug/ml#	45
43) 1,2-Dinitrobenzene	11.654	168	483706	22.99	ug/ml#	81
44) Dimethyl phthalate	11.448	163	4533001	21.78	ug/ml#	98
45) Acenaphthylene	11.654	152	6160536	22.09	ug/ml	99
46) 2,6-Dinitrotoluene	11.557	165	1057350	22.93	ug/ml#	88
47) 1,3-Dinitrobenzene	11.477	168	699910	21.70	ug/ml#	68
48) 3-Nitroaniline	11.917	138	960324	23.48	ug/ml	88
49) Acenaphthene	12.060	154	3645391	21.43	ug/ml	99
50) 2,4-Dinitrophenol	12.163	184	175373	17.77	ug/ml#	89
51) Dibenzofuran	12.461	168	5264824	21.85	ug/ml	98
52) 4-Nitrophenol	12.364	109	417493	19.48	ug/ml#	83
53) 2,4-Dinitrotoluene	12.478	165	1261142	21.97	ug/ml	89
54) 2,3,5,6-Tetrachlorophenol	12.661	232	937561	20.37	ug/ml	98
55) 2,3,4,6-Tetrachlorophenol	12.764	232	989065	20.34	ug/ml	98
56) Diethyl phthalate	13.107	149	4526622	22.40	ug/ml	96
57) Fluorene	13.262	166	4387871	21.75	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.313	204	2262627	21.35	ug/ml	98
59) 4-Nitroaniline	13.336	138	665917	22.50	ug/ml#	91
60) 4,6-Dinitro-2-methylph...	13.428	198	385059	18.98	ug/ml#	74
61) N-Nitrosodiphenylamine	13.599	169	3693822	21.98	ug/ml	97
62) Azobenzene	13.680	77	3803561	22.47	ug/ml	96
65) 4-Bromophenyl phenyl e...	14.464	248	1350057	21.29	ug/ml	98
66) Hexachlorobenzene	14.555	284	1624126	20.88	ug/ml	95
67) Pentachlorophenol	14.984	266	535449	18.40	ug/ml	97
68) Phenanthrene	15.356	178	5625244	21.31	ug/ml	99
69) Anthracene	15.442	178	5621883	21.85	ug/ml	98
70) Carbazole	15.722	167	4887275	22.70	ug/ml	99
71) Di-n-butyl phthalate	16.289	149	6518171	23.87	ug/ml	95
72) Fluoranthene	17.027	202	5861523	21.37	ug/ml	98
74) Pyrene	17.284	202	5915983	22.14	ug/ml	98
76) Butyl benzyl phthalate	17.983	149	2321833	22.66	ug/ml#	86
77) Bis (2-ethylhexyl) adi...	18.051	129	1890804	22.20	ug/ml#	83
78) Benzo (a) anthracene	18.543	228	4889641	22.59	ug/ml	99
79) Chrysene	18.578	228	4752103	22.31	ug/ml	97
80) Bis (2-ethylhexyl) pht...	18.532	149	3323758	23.24	ug/ml#	96
82) Di-n-octyl phthalate	19.110	149	4850663	20.65	ug/ml#	95
83) Benzo (b) fluoranthene	19.545	252	4717133	22.78	ug/ml	99
84) Benzo (k) fluoranthene	19.568	252	4767830	21.06	ug/ml	97
85) Benzo (a) pyrene	19.877	252	4354855	22.29	ug/ml	97
86) Indeno (1,2,3-cd) pyrene	21.227	276	4920462	21.81	ug/ml#	87
87) Dibenz (a,h) anthracene	21.233	278	3880106	22.21	ug/ml	96
88) Benzo (g,h,i) perylene	21.616	276	3931527	21.50	ug/ml#	92

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

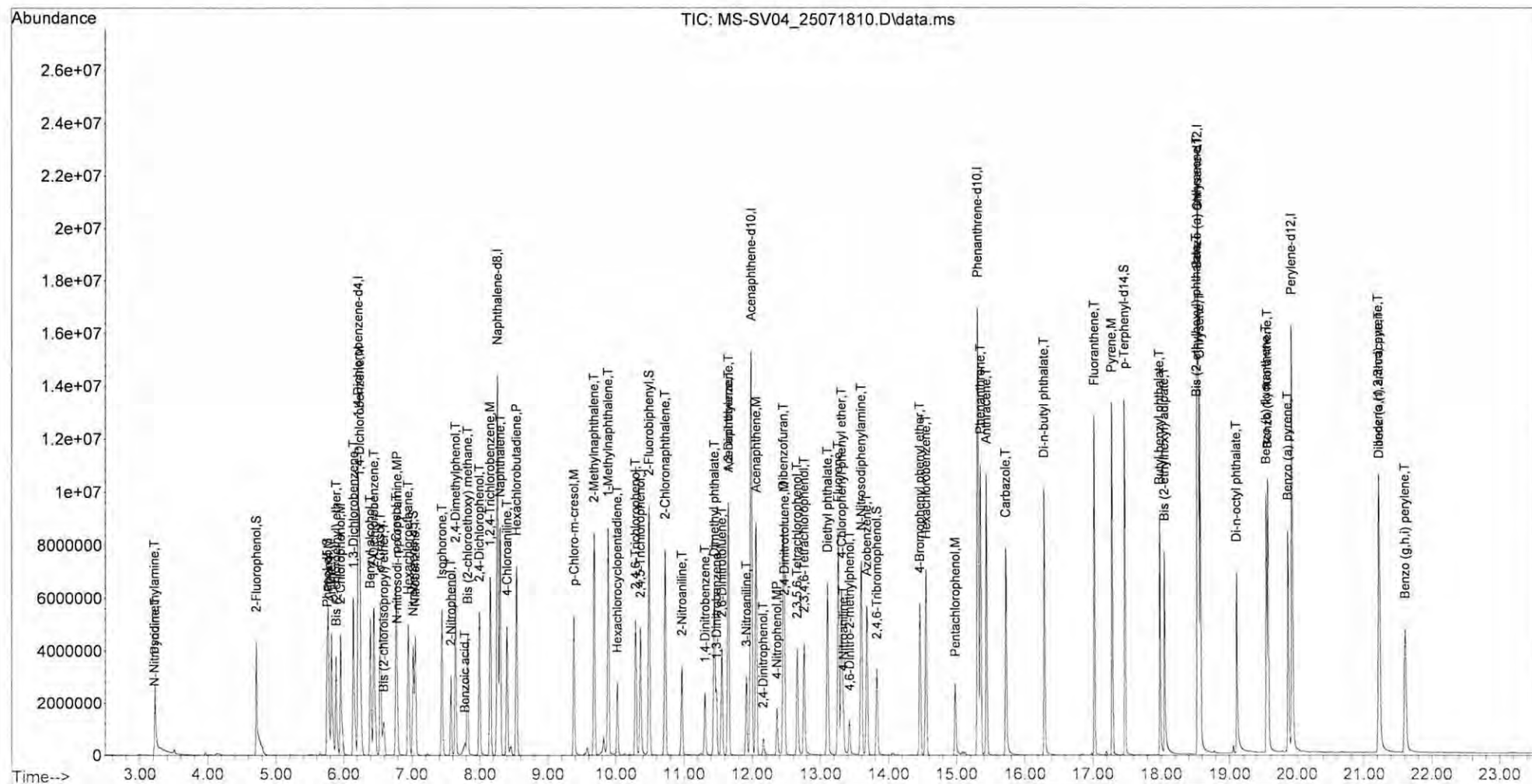
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



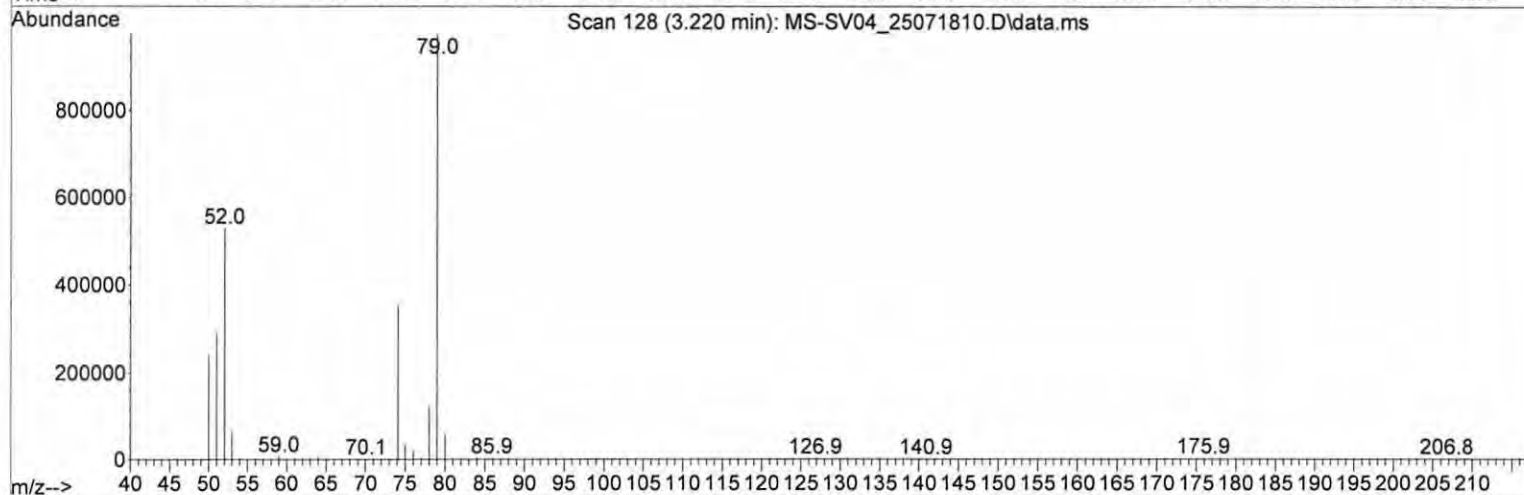
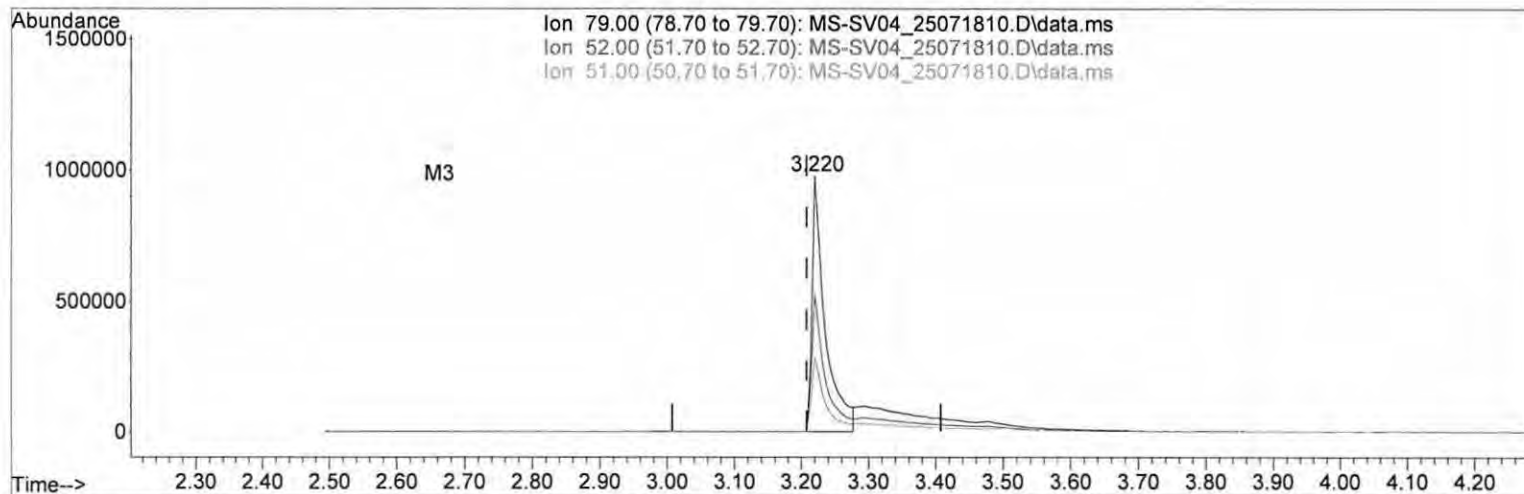
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatle Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071810.D\data.ms

(2) Pyridine (T)

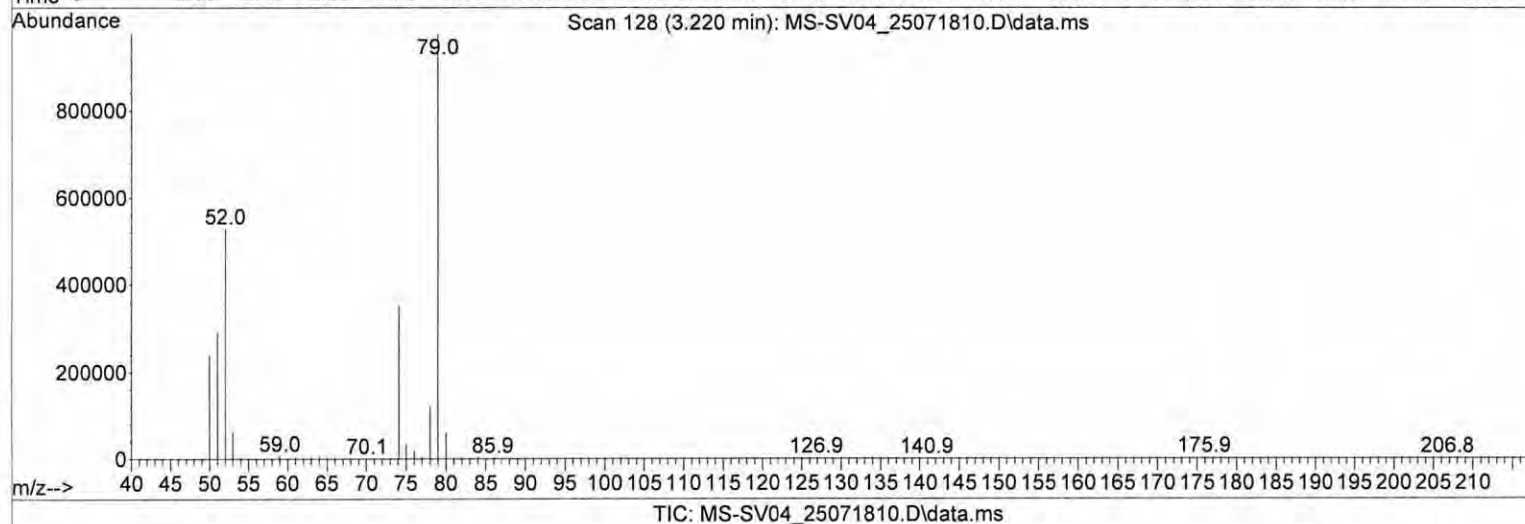
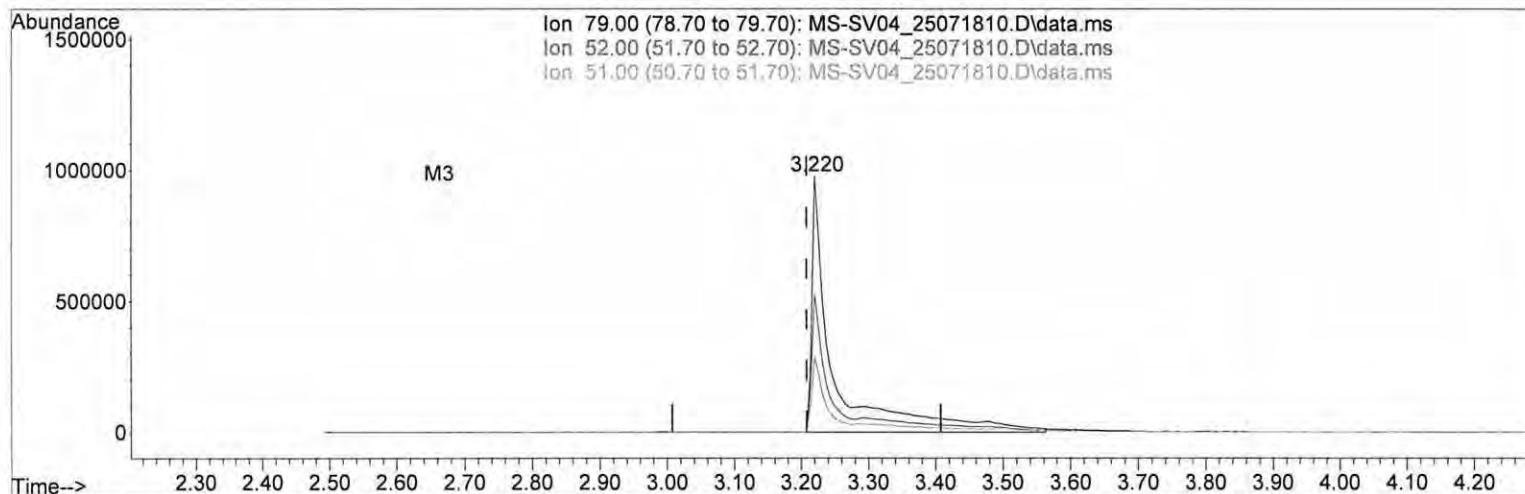
3.220min (+ 0.012) 13.07 ug/ml

response 1333630

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	55.96#
51.00	62.40	29.75#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(2) Pyridine (T)

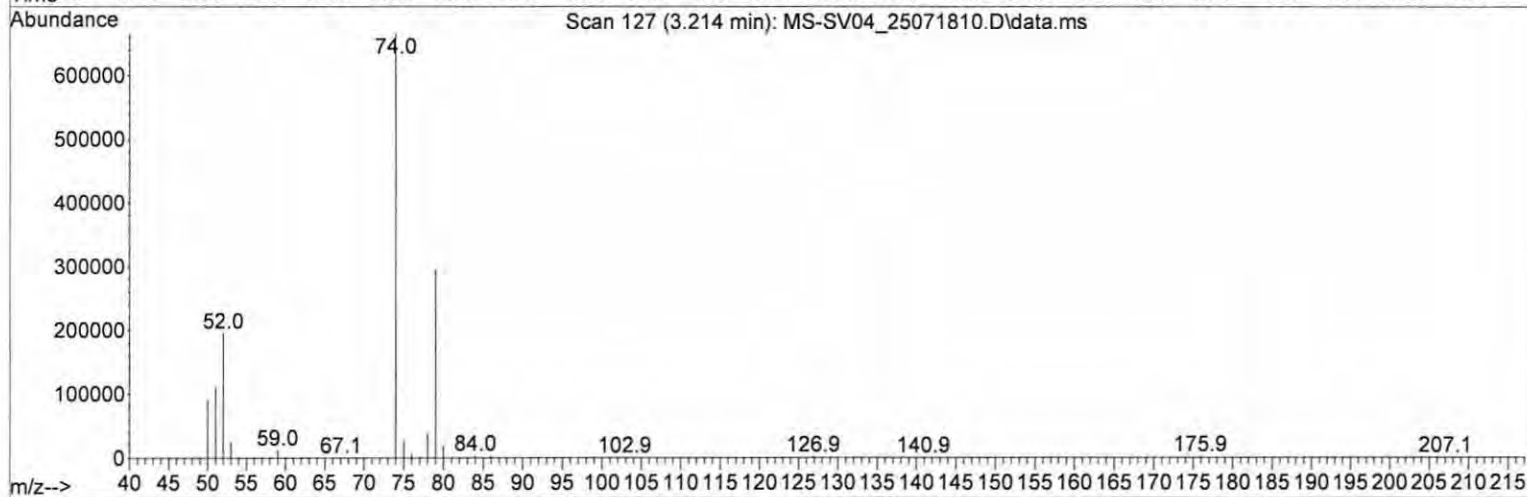
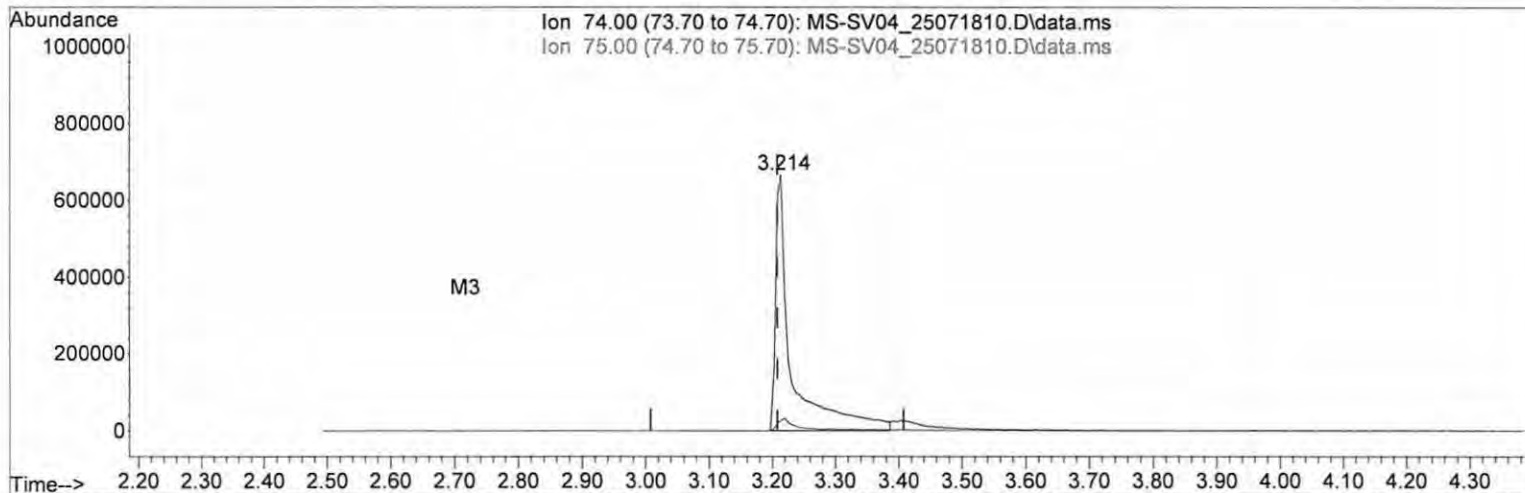
3.220min (+ 0.012) 21.63 ug/ml m

response 2207637

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	33.81#
51.00	62.40	17.97#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071810.D\data.ms

(3) N-Nitrosodimethylamine (T)

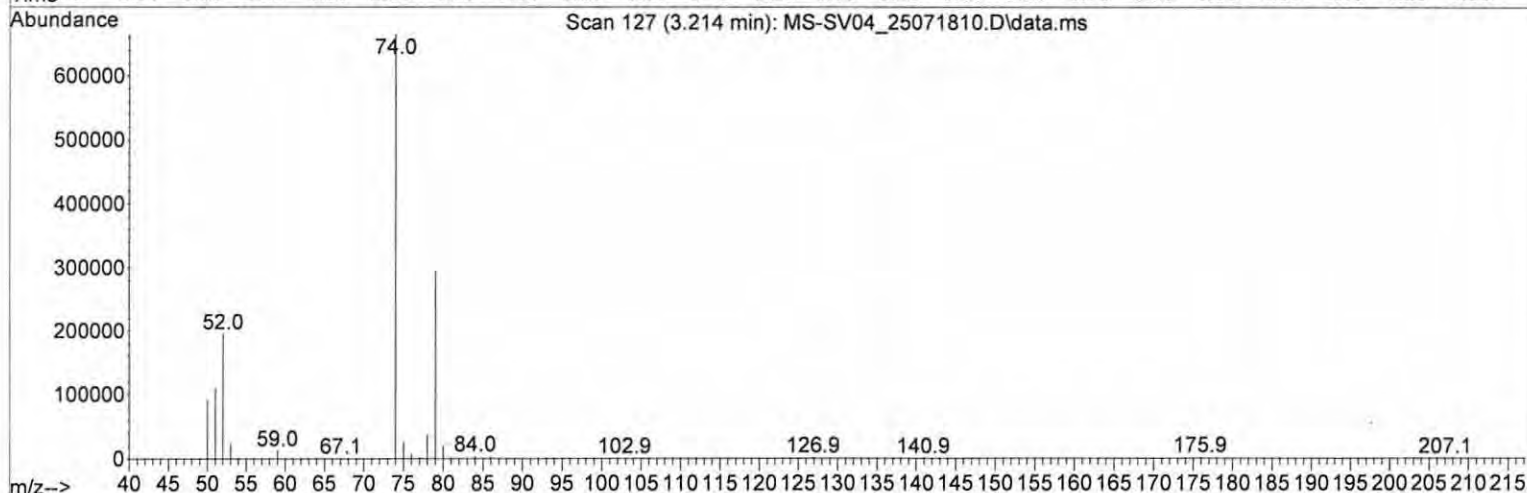
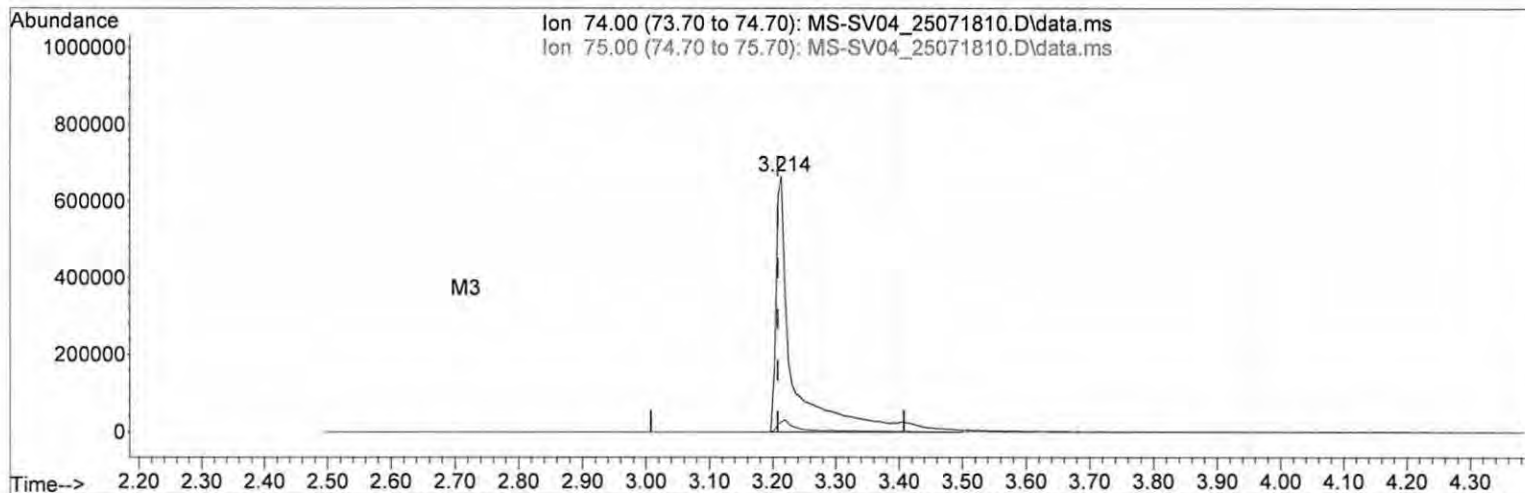
3.214min (+ 0.006) 20.38 ug/ml

response 1177522

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.08
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071810.D\data.ms

(3) N-Nitrosodimethylamine (T)

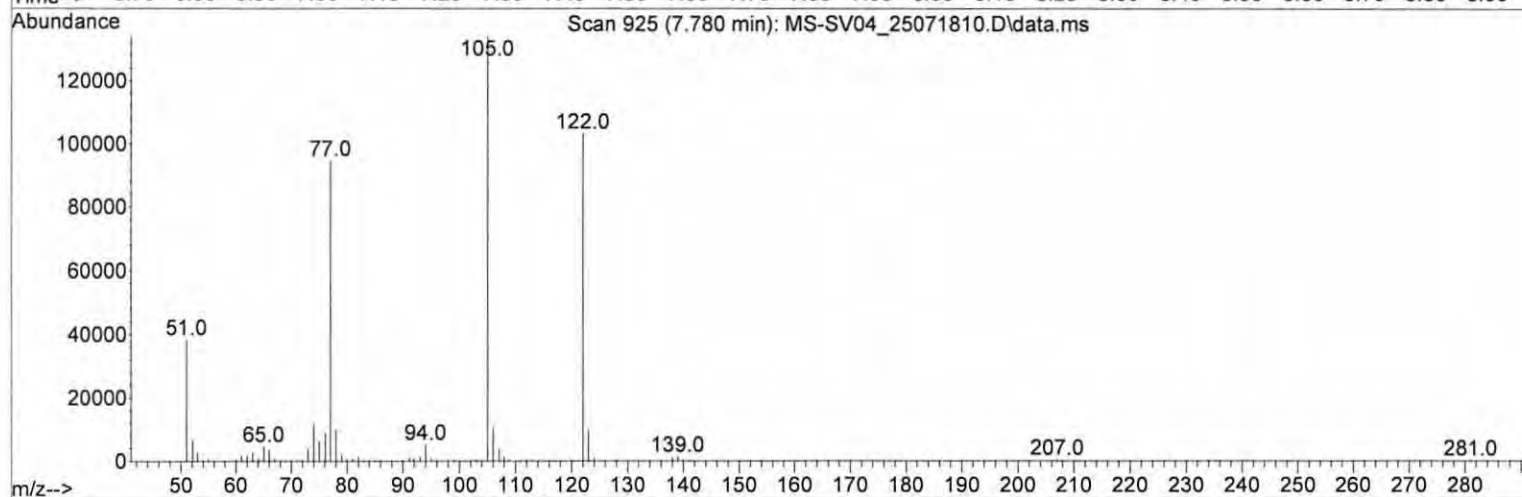
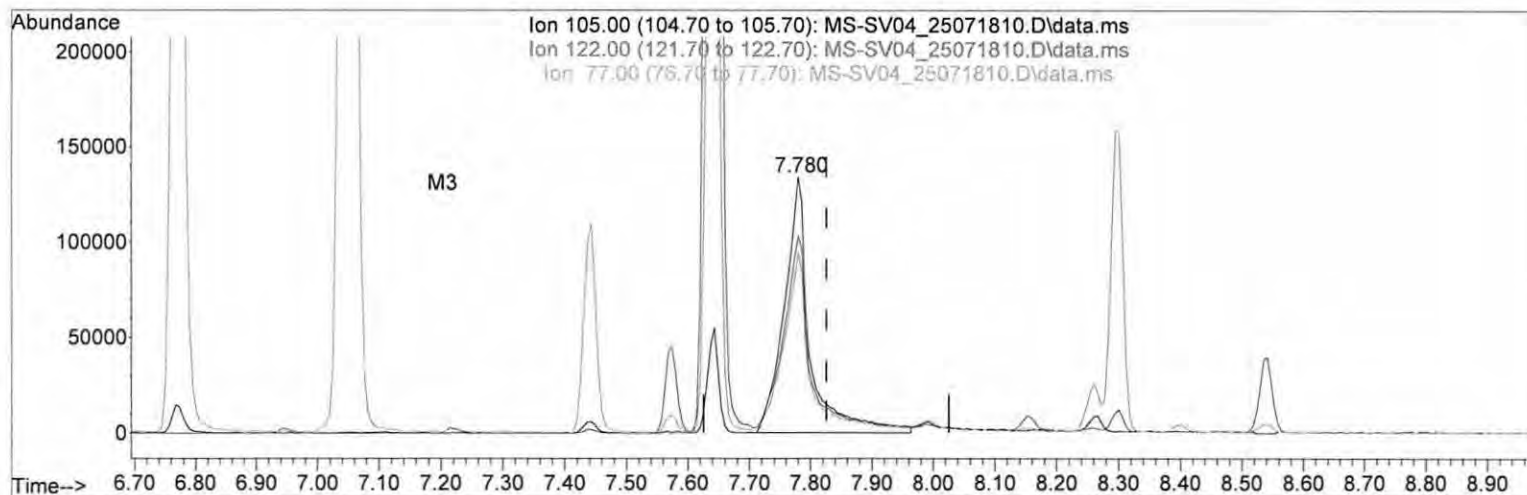
3.214min (+ 0.006) 22.10 ug/ml m

response 1276807

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	4.69#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071810.D\data.ms

(28) Benzoic acid (T)

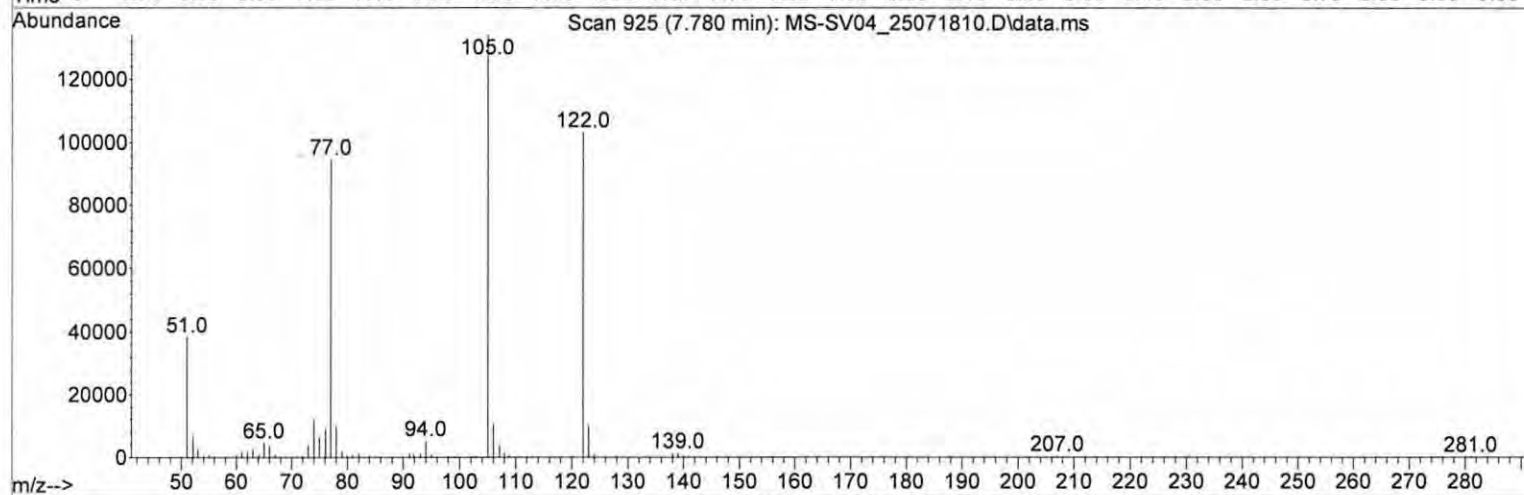
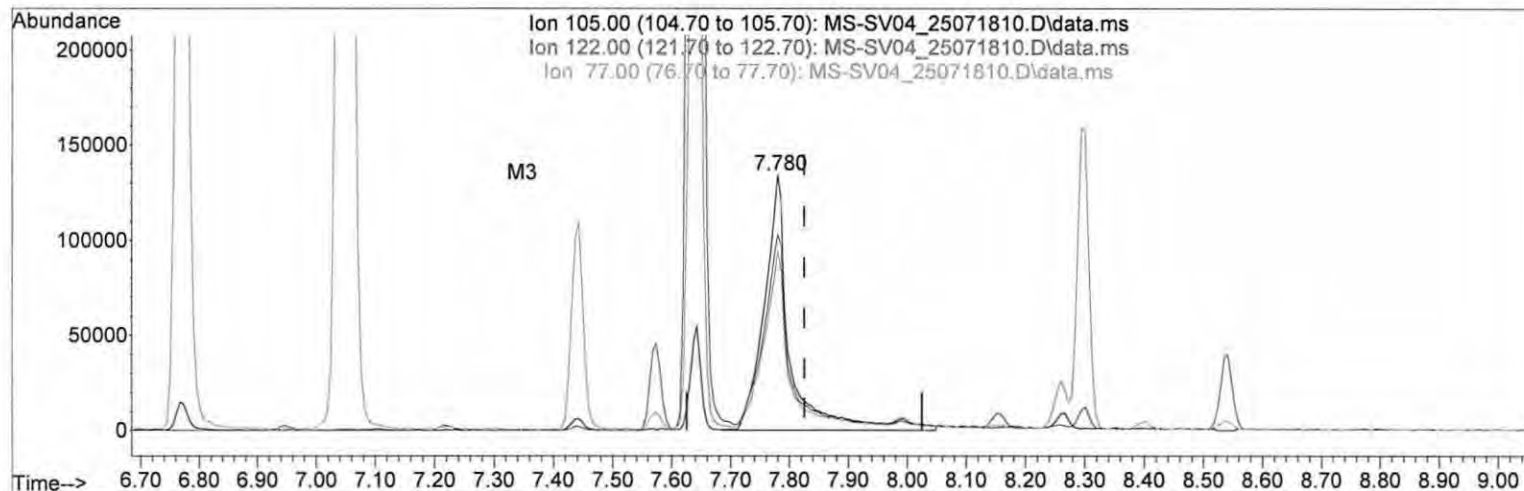
7.780min (-0.046) 13.27 ug/ml

response 392649

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	73.62
77.00	60.90	67.54
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071810.D
Acq On : 18 Jul 2025 06:40 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : SVOC
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 09:19:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071810.D\data.ms

(28) Benzoic acid (T)

7.780min (-0.046) 13.81 ug/ml m

response 417392

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	69.25
77.00	60.90	63.53
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071811.D
 Acq On : 18 Jul 2025 07:08 pm
 Operator : BMS
 Sample : SEQ-CAL5
 Misc : SVOC
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	2989142	40.00	ug/ml	0.00
21) Naphthalene-d8	8.261	136	9757701	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.992	164	5878325	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.316	188	9102869	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.560	240	6766473	40.00	ug/ml	0.00
81) Perylene-d12	19.939	264	7102531	40.00	ug/ml	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.713	112	3848153	39.78	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	39.78%
5) Phenol-d5	5.754	99	4035841	38.69	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	38.69%#
19) Nitrobenzene-d5	7.025	82	3490917	40.62	ug/ml	0.00
Spiked Amount	50.000	Range	10 - 99	Recovery	=	81.24%
39) 2-Fluorobiphenyl	10.498	172	7941253	37.77	ug/ml	0.00
Spiked Amount	50.000	Range	23 - 87	Recovery	=	75.54%
64) 2,4,6-Tribromophenol	13.834	330	1287137	36.29	ug/ml	0.00
Spiked Amount	100.000	Range	20 - 86	Recovery	=	36.29%
75) p-Terphenyl-d14	17.473	244	7708075	39.09	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	78.18%

Target Compounds

					Qvalue
2) Pyridine	3.208	79	3641019m	40.31	ug/ml
3) N-Nitrosodimethylamine	3.208	74	2033061m	39.76	ug/ml
6) Aniline	5.823	93	4983864	40.05	ug/ml
7) Phenol	5.772	94	4366088	42.30	ug/ml#
8) Bis (2-chloroethyl) ether	5.886	93	3320727	37.60	ug/ml#
9) 2-Chlorophenol	5.955	128	3731118	39.34	ug/ml#
10) 1,3-Dichlorobenzene	6.144	146	4324146	38.49	ug/ml
11) 1,4-Dichlorobenzene	6.235	146	4256708	38.80	ug/ml
12) Benzyl alcohol	6.395	108	2244292	40.77	ug/ml
13) 1,2-Dichlorobenzene	6.447	146	4095509	38.33	ug/ml
14) o-Cresol	6.538	108	3131697	38.65	ug/ml
15) Bis (2-chloroisopropyl...	6.590	121	1344068	38.35	ug/ml#
16) p-Cresol	6.779	107	3293863	38.41	ug/ml
17) N-nitrosodi-n-propyl a...	6.796	70	2130839	39.19	ug/ml
18) Hexachloroethane	6.945	117	1649881	40.19	ug/ml
20) Nitrobenzene	7.053	77	3269966	39.48	ug/ml#
22) Isophorone	7.448	82	6193778	37.83	ug/ml
23) 2-Nitrophenol	7.574	139	1777405	40.69	ug/ml
24) 2,4-Dimethylphenol	7.648	122	3005057	38.24	ug/ml
25) Bis (2-chloroethoxy) m...	7.820	93	3674540	37.29	ug/ml
26) 2,4-Dichlorophenol	7.998	162	2967807	40.42	ug/ml
27) 1,2,4-Trichlorobenzene	8.158	180	3545851	38.32	ug/ml
28) Benzoic acid	7.826	105	1129870m	32.02	ug/ml
29) Naphthalene	8.301	128	9186929	36.03	ug/ml
30) 4-Chloroaniline	8.404	127	3956589	39.93	ug/ml#
31) Hexachlorobutadiene	8.541	225	2331486	39.34	ug/ml
32) p-Chloro-m-cresol	9.382	107	2929309	42.04	ug/ml

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071811.D
 Acq On : 18 Jul 2025 07:08 pm
 Operator : BMS
 Sample : SEQ-CAL5
 Misc : SVOC
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

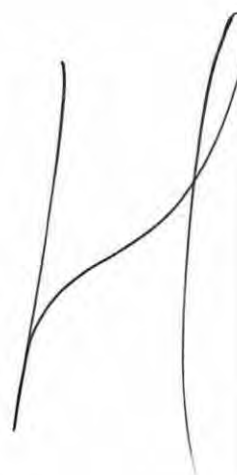
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.686	142	6142122	38.24	ug/ml	98
34) 1-Methylnaphthalene	9.892	142	6349255	38.10	ug/ml	95
35) Hexachlorocyclopentadiene	10.023	237	1489347	39.75	ug/ml	98
37) 2,4,6-Trichlorophenol	10.298	196	2156132	43.38	ug/ml	97
38) 2,4,5-Trichlorophenol	10.366	198	2167625	43.99	ug/ml	98
40) 2-Chloronaphthalene	10.733	162	6324305	38.50	ug/ml#	98
41) 2-Nitroaniline	10.979	65	1521071	42.76	ug/ml#	82
42) 1,4-Dinitrobenzene	11.316	75	1060957	41.15	ug/ml#	43
43) 1,2-Dinitrobenzene	11.671	168	817722	42.64	ug/ml	90
44) Dimethyl phthalate	11.459	163	7411742	39.07	ug/ml#	98
45) Acenaphthylene	11.660	152	9698206	38.16	ug/ml	99
46) 2,6-Dinitrotoluene	11.568	165	1810068	43.07	ug/ml#	88
47) 1,3-Dinitrobenzene	11.488	168	1232366	40.47	ug/ml#	68
48) 3-Nitroaniline	11.929	138	1627224	43.65	ug/ml	87
49) Acenaphthene	12.066	154	5897623	38.05	ug/ml	99
50) 2,4-Dinitrophenol	12.175	184	487602	38.99	ug/ml#	87
51) Dibenzofuran	12.466	168	8437441	38.43	ug/ml	97
52) 4-Nitrophenol	12.375	109	814341	38.42	ug/ml#	80
53) 2,4-Dinitrotoluene	12.489	165	2165949	40.31	ug/ml	90
54) 2,3,5,6-Tetrachlorophenol	12.667	232	1751413	39.44	ug/ml	98
55) 2,3,4,6-Tetrachlorophenol	12.770	232	1811748	38.98	ug/ml	97
56) Diethyl phthalate	13.113	149	7427576	40.33	ug/ml	94
57) Fluorene	13.268	166	7134488	38.80	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.313	204	3736848	38.69	ug/ml	98
59) 4-Nitroaniline	13.348	138	1143362	41.45	ug/ml#	88
60) 4,6-Dinitro-2-methylph...	13.439	198	877301	39.80	ug/ml#	73
61) N-Nitrosodiphenylamine	13.605	169	6064801	39.60	ug/ml	96
62) Azobenzene	13.685	77	5954587	38.61	ug/ml	93
65) 4-Bromophenyl phenyl e...	14.469	248	2331879	39.50	ug/ml	100
66) Hexachlorobenzene	14.561	284	2776877	38.34	ug/ml	94
67) Pentachlorophenol	14.984	266	1151707	35.71	ug/ml	99
68) Phenanthrene	15.356	178	8960547	36.46	ug/ml	99
69) Anthracene	15.448	178	8897434	37.14	ug/ml	99
70) Carbazole	15.728	167	7869863	39.26	ug/ml	99
71) Di-n-butyl phthalate	16.294	149	9976441	39.24	ug/ml	97
72) Fluoranthene	17.027	202	8985758	35.19	ug/ml	100
74) Pyrene	17.290	202	9133534	36.42	ug/ml	98
76) Butyl benzyl phthalate	17.982	149	4120627m	41.21	ug/ml	
77) Bis (2-ethylhexyl) adi...	18.051	129	3412907	41.11	ug/ml#	82
78) Benzo (a) anthracene	18.543	228	8095769	39.84	ug/ml	99
79) Chrysene	18.583	228	7456023	37.30	ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.532	149	5705730	41.55	ug/ml#	93
82) Di-n-octyl phthalate	19.110	149	8825164	39.47	ug/ml#	91
83) Benzo (b) fluoranthene	19.545	252	7433544	39.84	ug/ml	98
84) Benzo (k) fluoranthene	19.573	252	7940982	38.93	ug/ml#	97
85) Benzo (a) pyrene	19.882	252	7200478	40.91	ug/ml	95
86) Indeno (1,2,3-cd) pyrene	21.233	276	8278829	40.73	ug/ml#	84
87) Dibenz (a,h) anthracene	21.238	278	6594993	41.91	ug/ml#	94
88) Benzo (g,h,i) perylene	21.622	276	6616160	40.15	ug/ml#	90

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

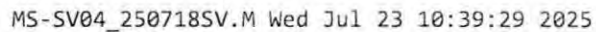
Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



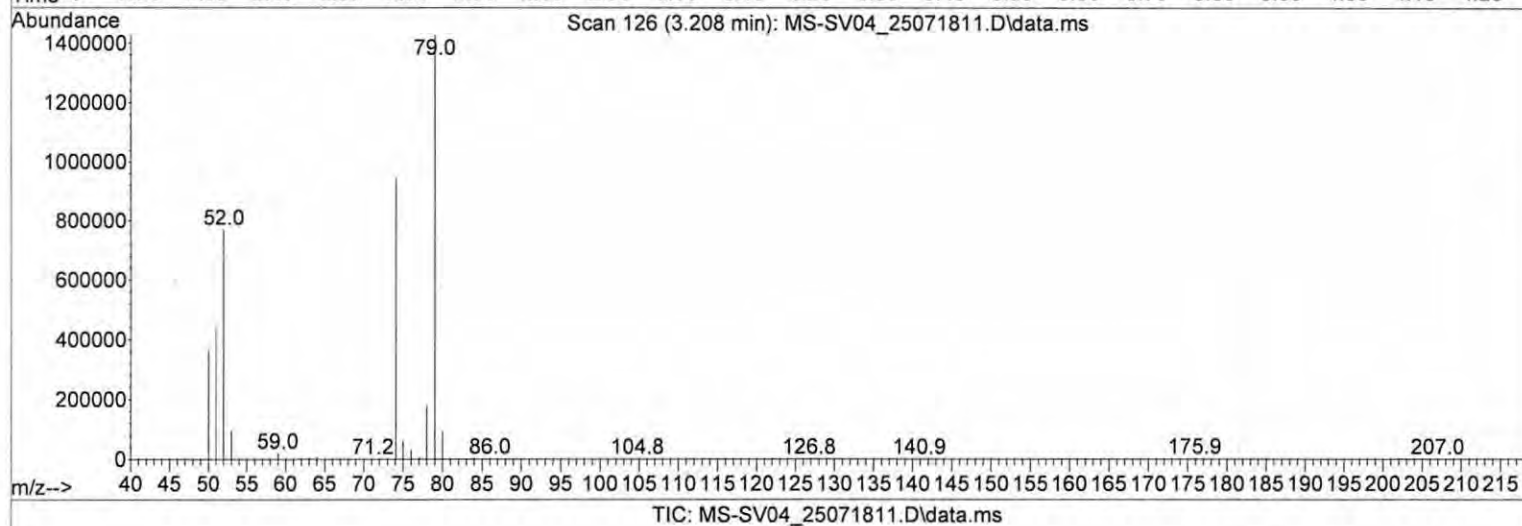
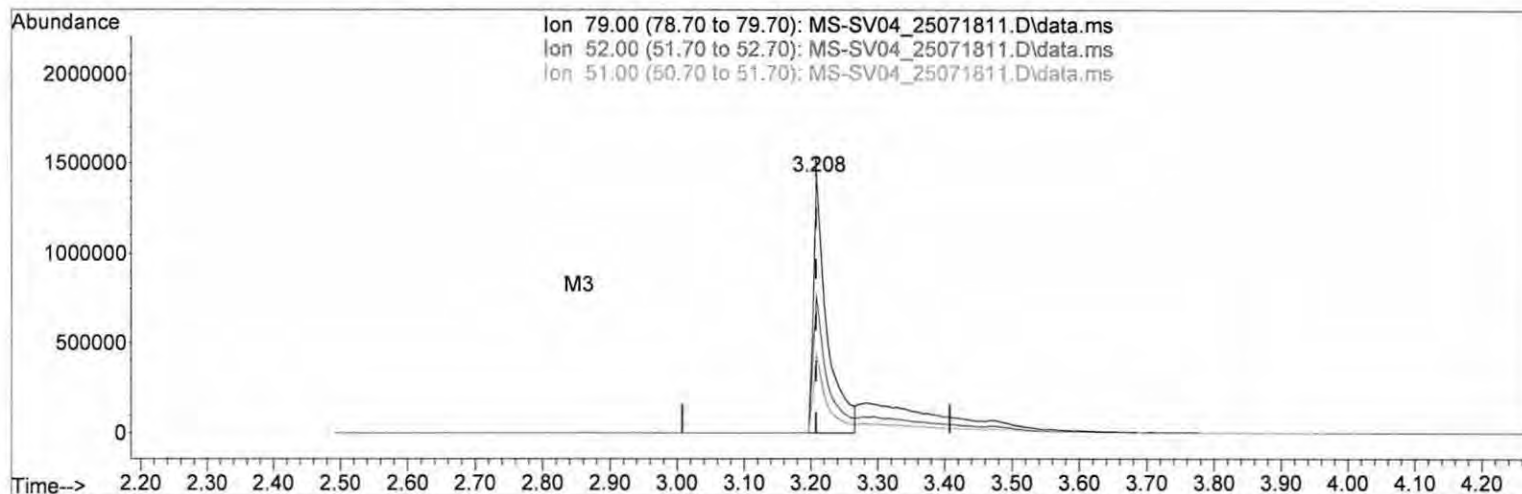
Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

114 of 521

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(2) Pyridine (T)

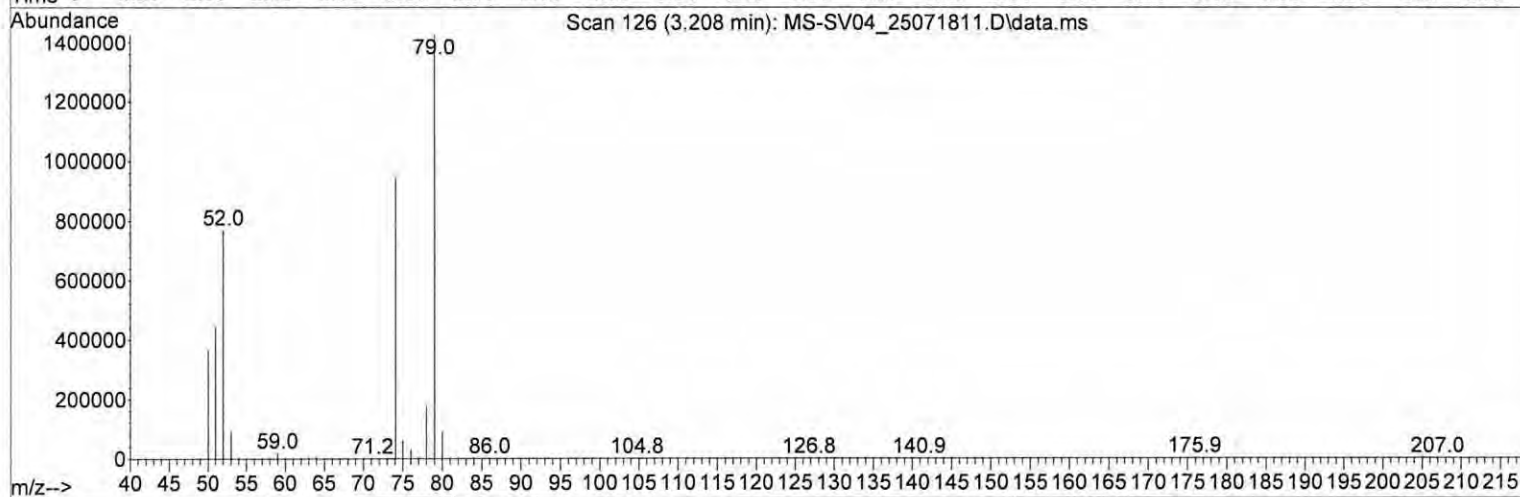
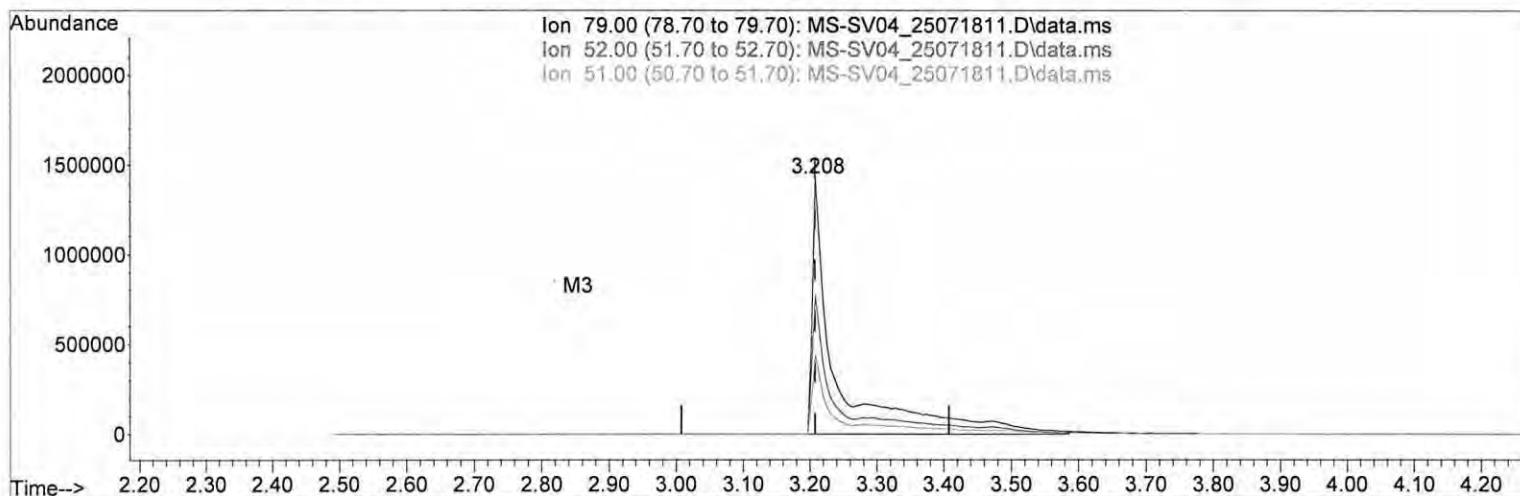
3.208min (+ 0.000) 22.42 ug/ml

response 2025016

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	55.09#
51.00	62.40	30.42#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(2) Pyridine (T)

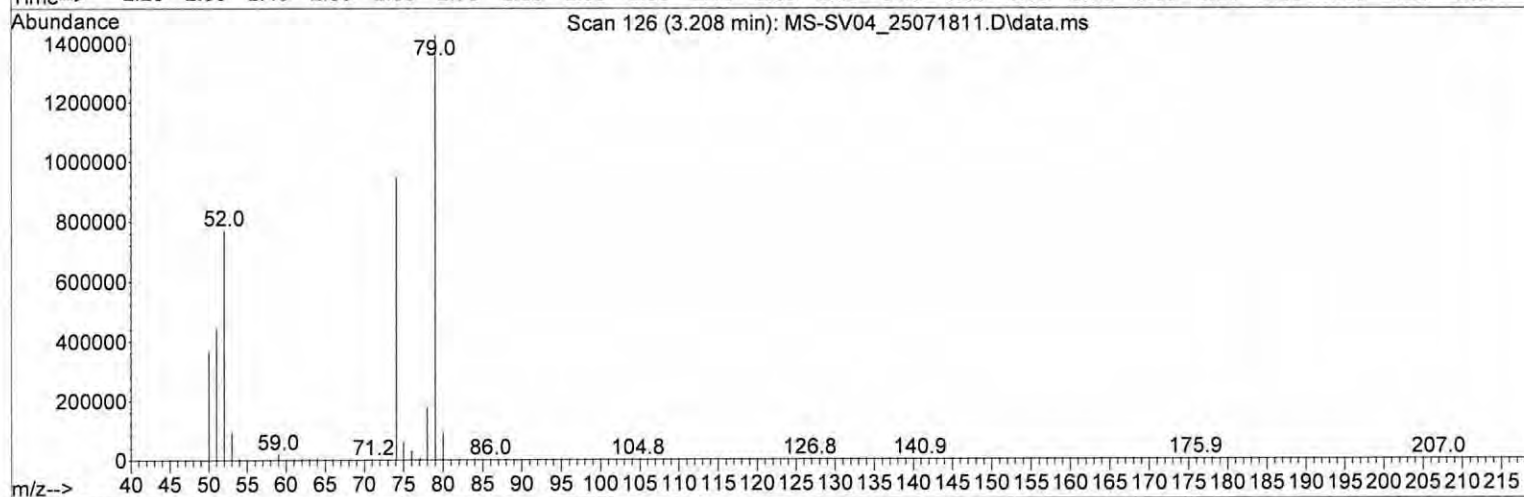
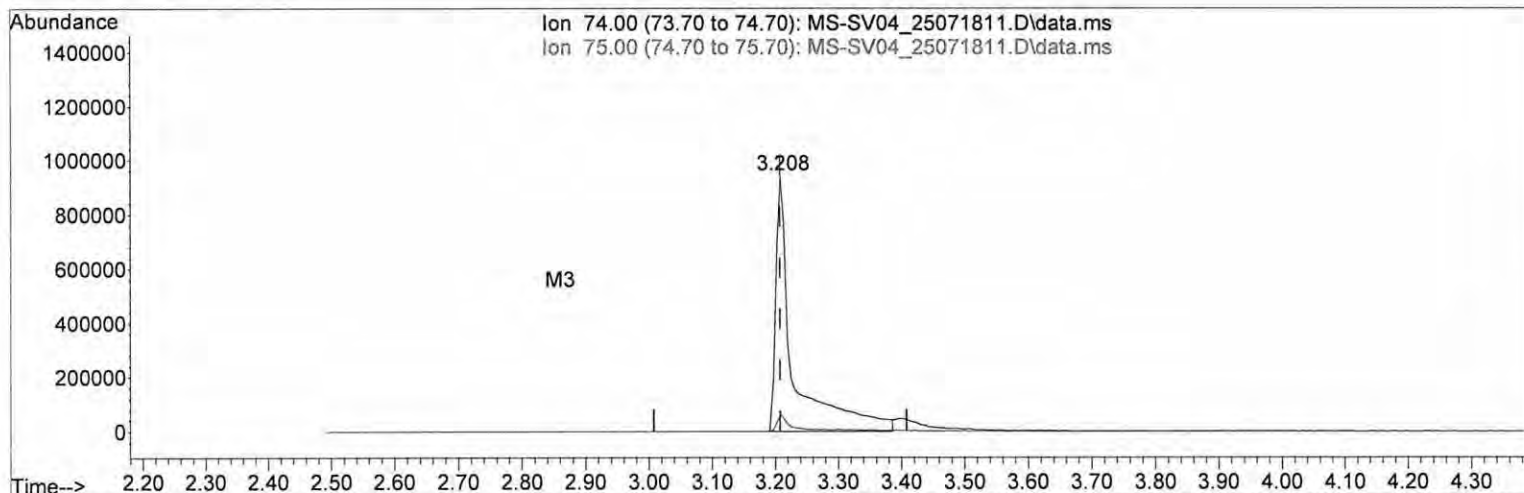
3.208min (+ 0.000) 40.31 ug/ml m

response 3641019

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	30.64#
51.00	62.40	16.92#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(3) N-Nitrosodimethylamine (T)

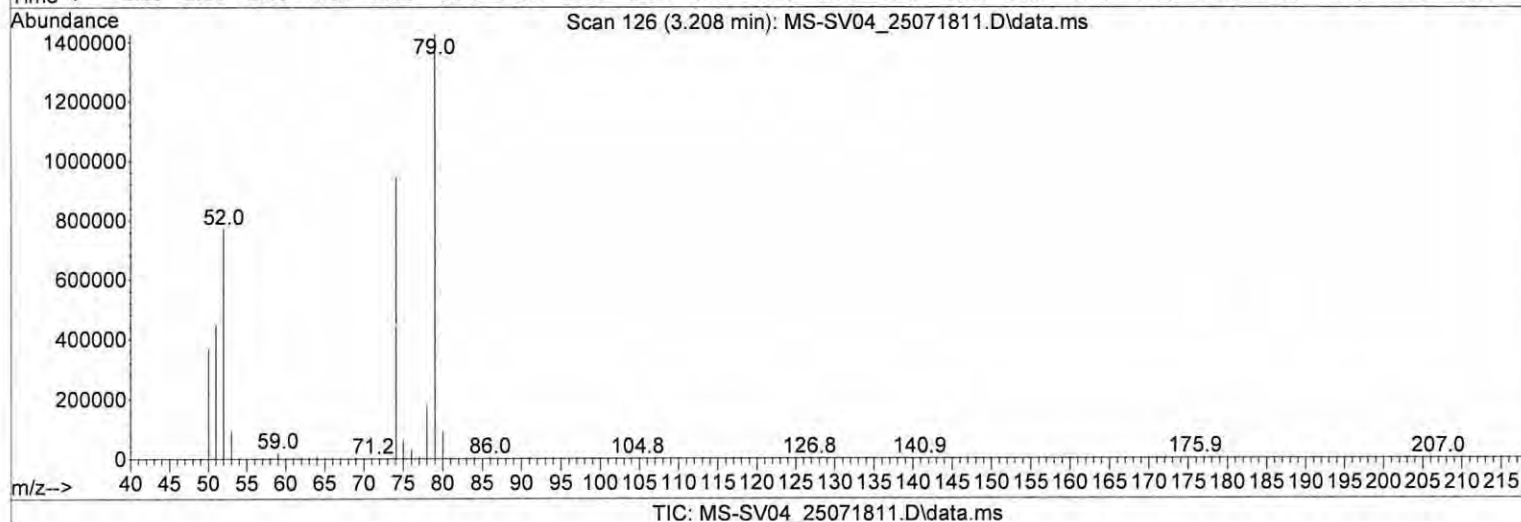
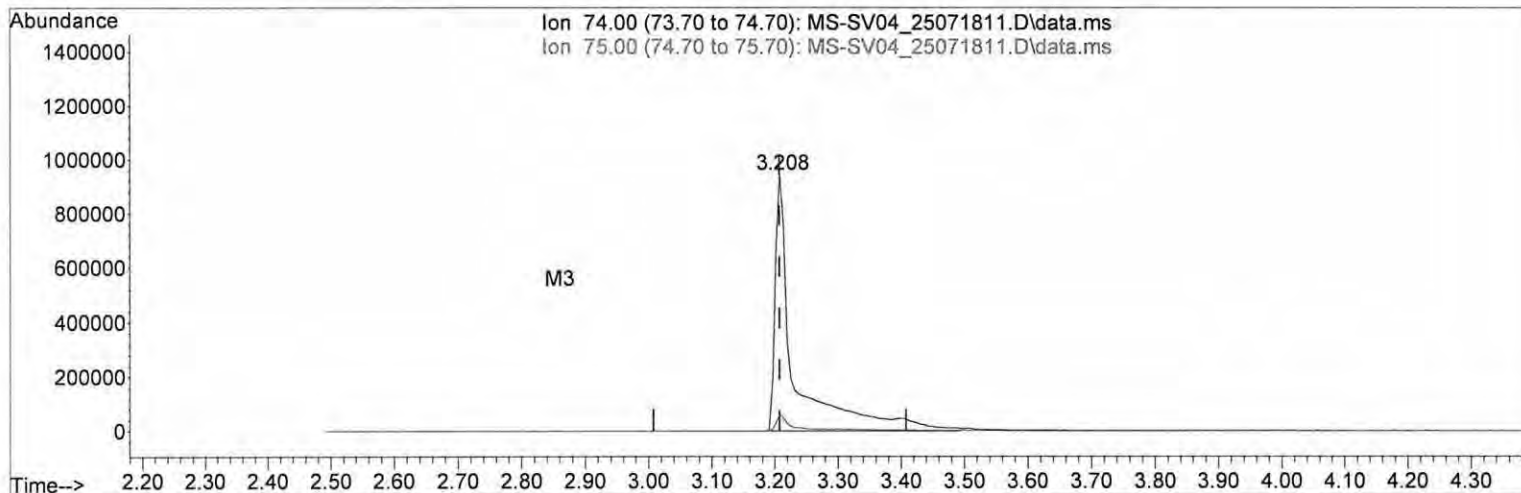
3.208min (+ 0.000) 36.71 ug/ml

response 1877137

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.18
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(3) N-Nitrosodimethylamine (T)

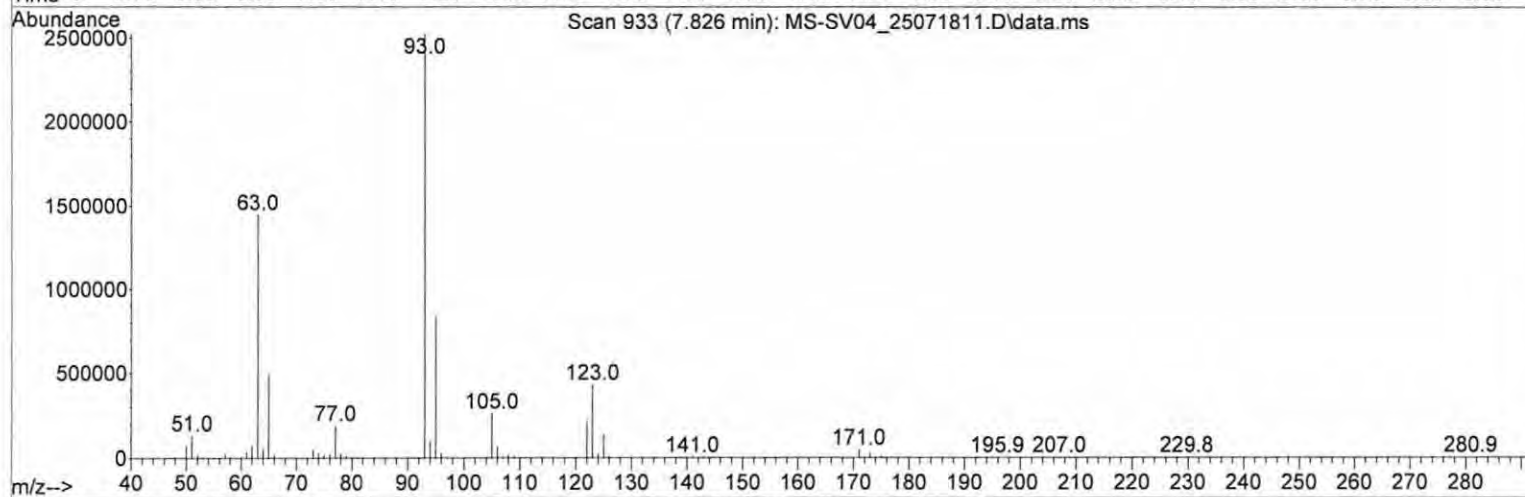
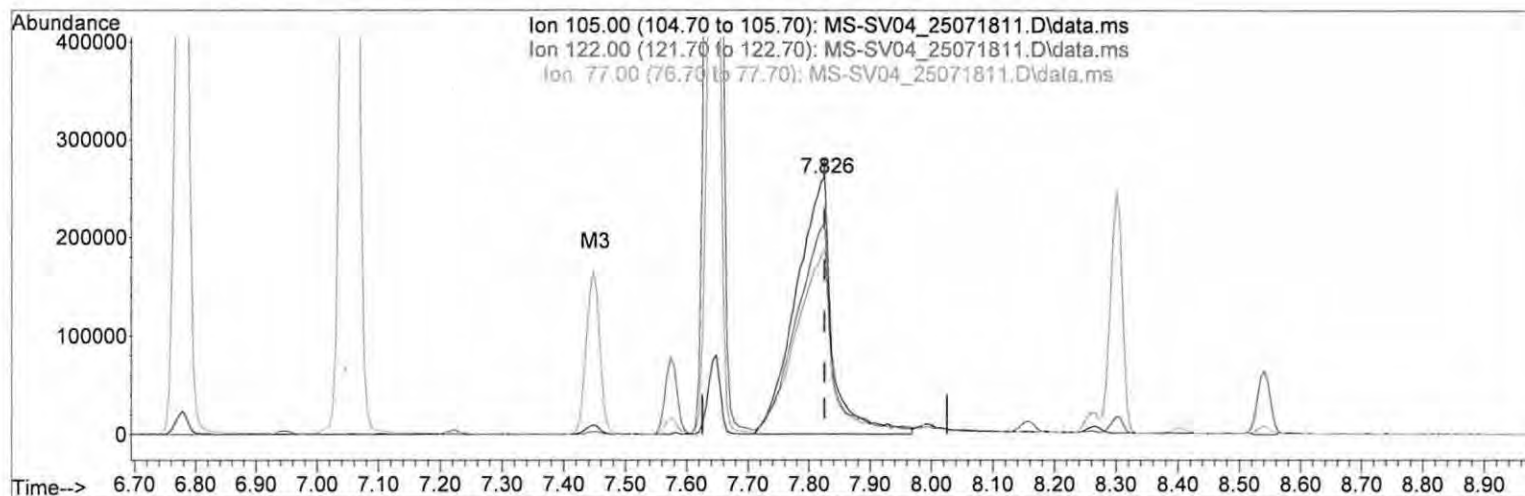
3.208min (+ 0.000) 39.76 ug/ml m

response 2033061

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	4.78#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(28) Benzoic acid (T)

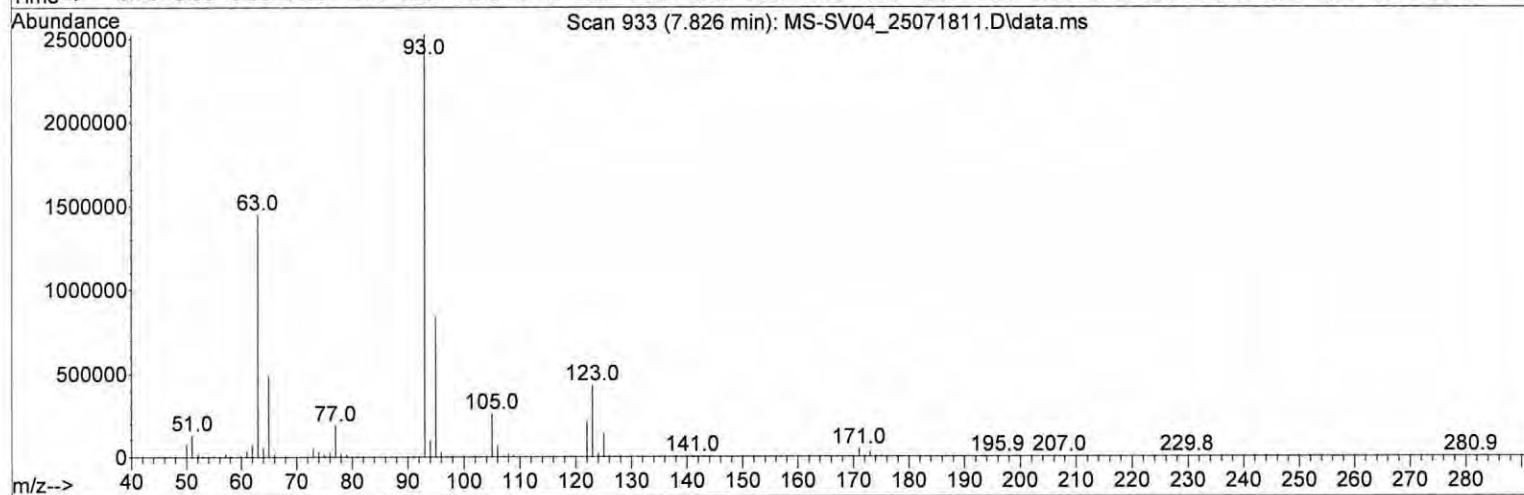
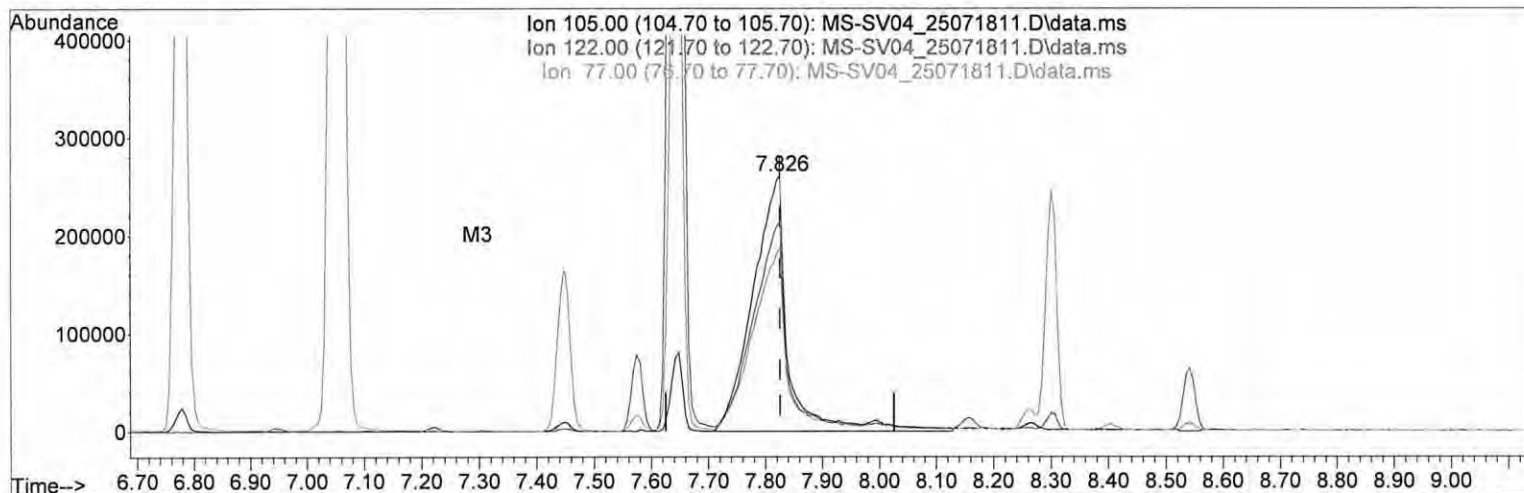
7.826min (-0.000) 30.65 ug/ml

response 1073436

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	75.94
77.00	60.90	69.36
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(28) Benzoic acid (T)

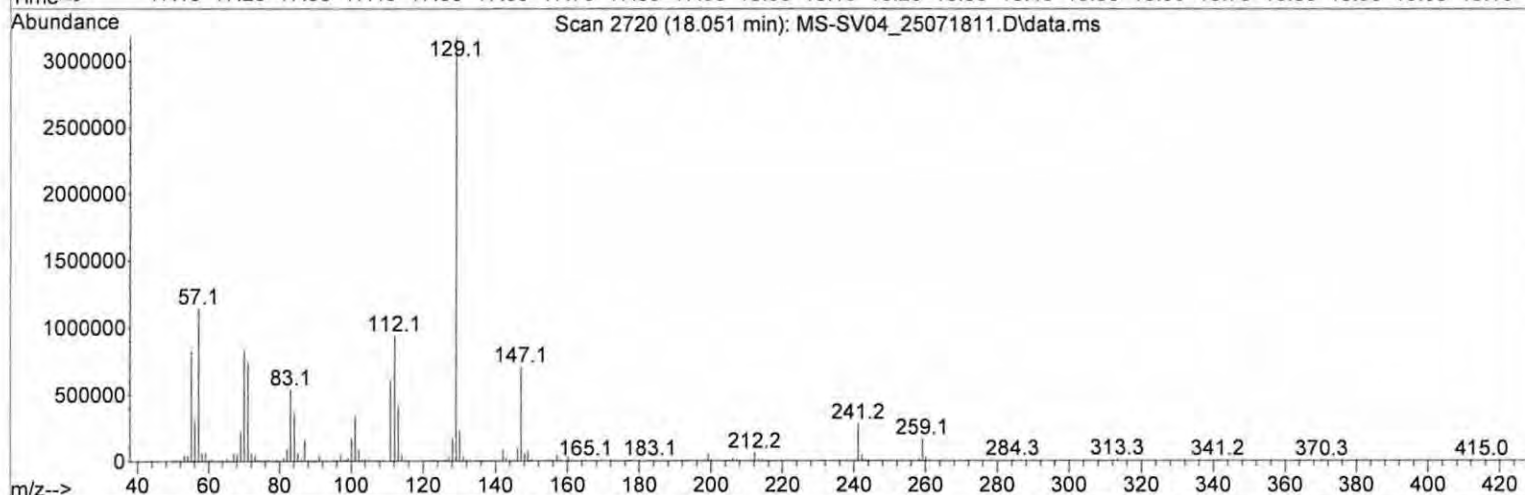
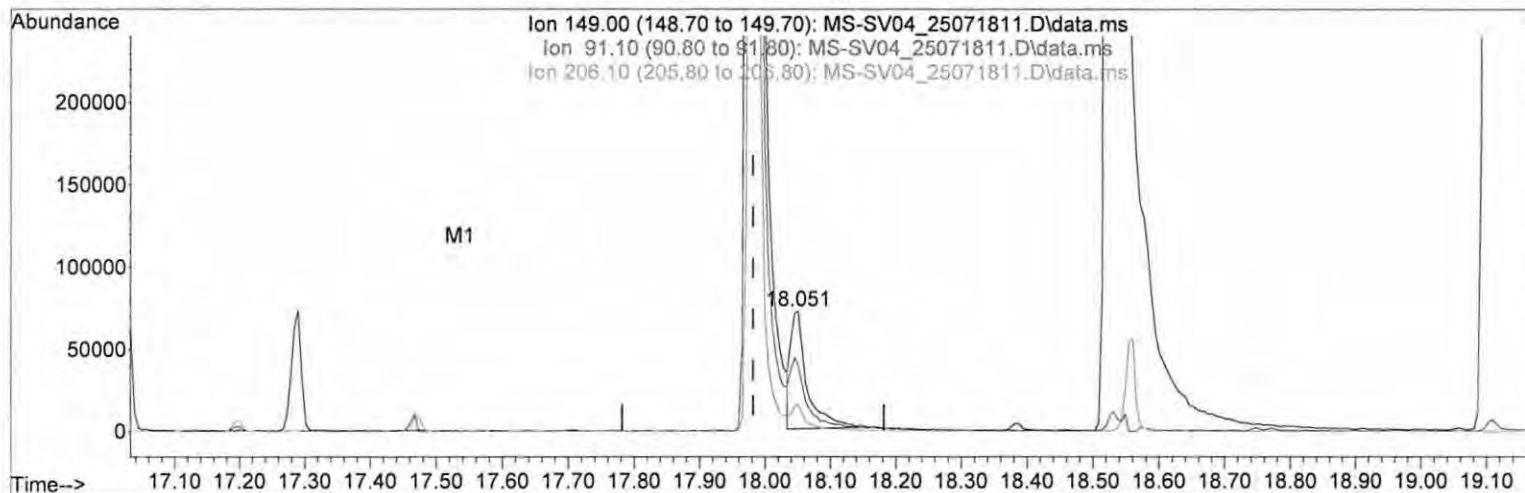
7.826min (-0.000) 32.02 ug/ml m

response 1129870

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	72.15
77.00	60.90	65.90
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(76) Butyl benzyl phthalate (T)

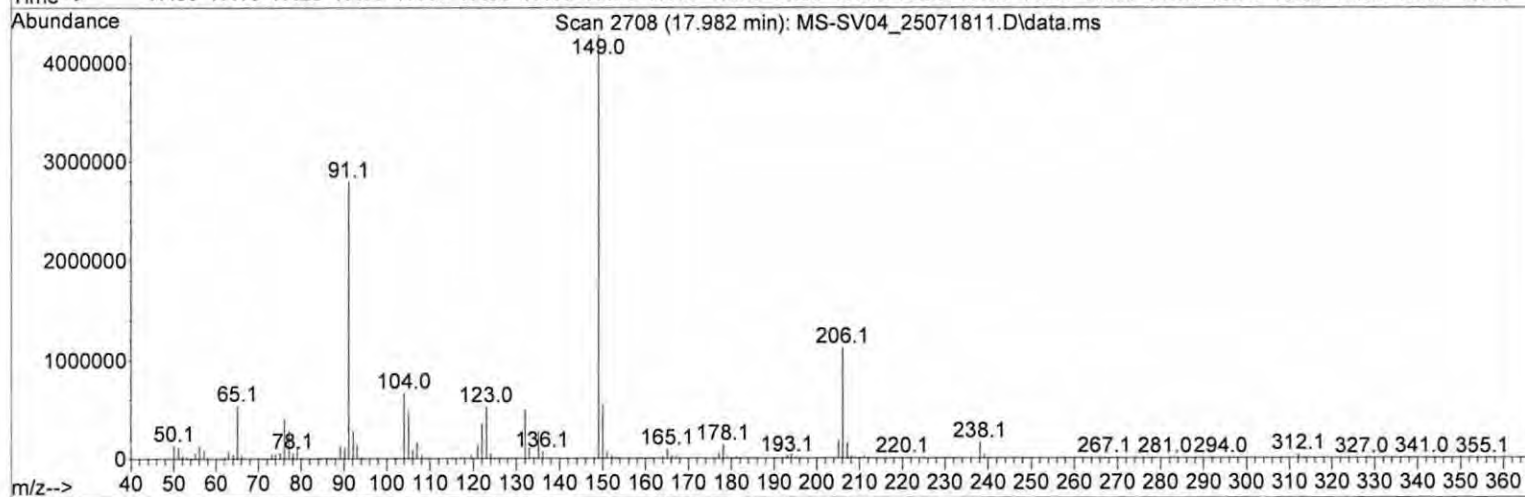
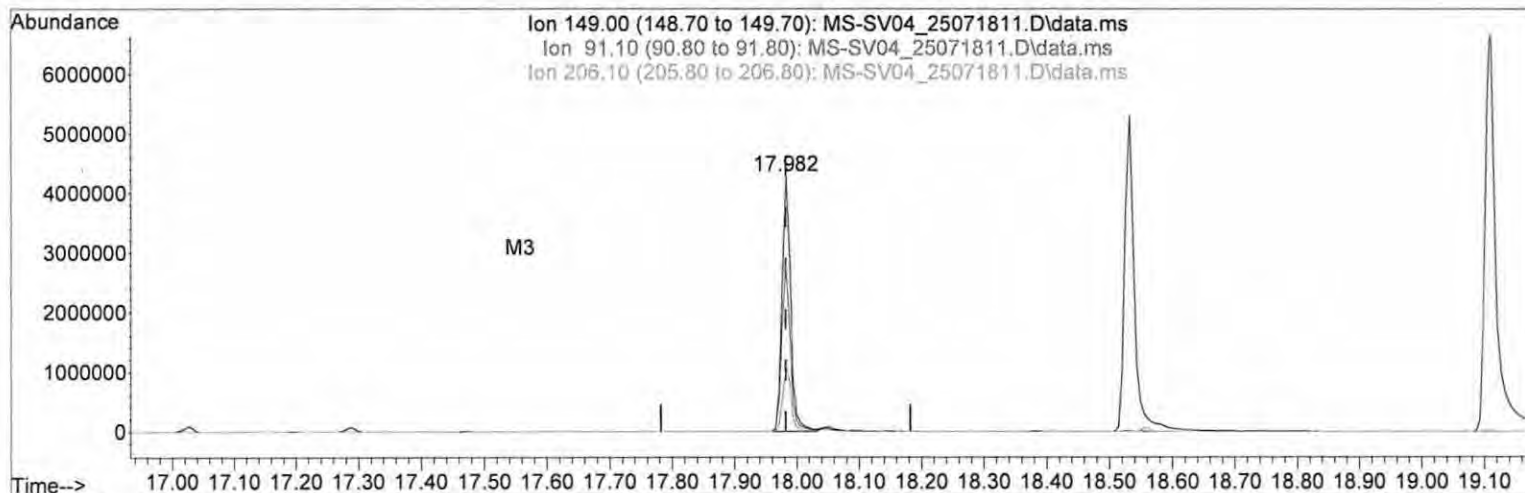
18.051min (+ 0.069) 3.03 ug/ml

response 126552

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	59.14
206.10	20.30	23.11
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071811.D
Acq On : 18 Jul 2025 07:08 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : SVOC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 09:19:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071811.D\data.ms

(76) Butyl benzyl phthalate (T)

17.982min (+ 0.000) 41.21 ug/ml m

response 4120627

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	1.82#
206.10	20.30	0.71#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071812.D
 Acq On : 18 Jul 2025 07:37 pm
 Operator : BMS
 Sample : SEQ-CAL6
 Misc : SVOC
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	2870472	40.00	ug/ml	0.00
21) Naphthalene-d8	8.267	136	9654589	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.992	164	5780543	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.316	188	8863436	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.560	240	6297752	40.00	ug/ml	0.00
81) Perylene-d12	19.939	264	6181800	40.00	ug/ml	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	5789512	62.32	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	62.32%#		
5) Phenol-d5	5.760	99	5821823	58.13	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	58.13%#		
19) Nitrobenzene-d5	7.031	82	5133156	62.20	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	124.40%#		
39) 2-Fluorobiphenyl	10.504	172	11420291	55.24	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	110.48%#		
64) 2,4,6-Tribromophenol	13.845	330	2151107	60.71	ug/ml	0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	60.71%		
75) p-Terphenyl-d14	17.473	244	10393828	56.64	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	113.28%		

Target Compounds				Qvalue		
2) Pyridine	3.214	79	5415993m	62.43	ug/ml	
3) N-Nitrosodimethylamine	3.220	74	3027842m	61.66	ug/ml	
6) Aniline	5.829	93	7165047	59.95	ug/ml	93
7) Phenol	5.777	94	6187600	62.43	ug/ml#	91
8) Bis (2-chloroethyl) ether	5.892	93	4700288	55.42	ug/ml#	75
9) 2-Chlorophenol	5.955	128	5474587	60.11	ug/ml#	91
10) 1,3-Dichlorobenzene	6.144	146	6335060	58.72	ug/ml	97
11) 1,4-Dichlorobenzene	6.241	146	6256581	59.39	ug/ml	98
12) Benzyl alcohol	6.401	108	3307160	62.57	ug/ml	89
13) 1,2-Dichlorobenzene	6.447	146	6041040	58.87	ug/ml	96
14) o-Cresol	6.544	108	4522139	58.12	ug/ml	92
15) Bis (2-chloroisopropyl)...	6.596	121	1955641	58.11	ug/ml#	80
16) p-Cresol	6.790	107	4720567	57.32	ug/ml	94
17) N-nitrosodi-n-propyl a...	6.807	70	3071083	58.81	ug/ml#	93
18) Hexachloroethane	6.950	117	2432582	61.70	ug/ml	91
20) Nitrobenzene	7.065	77	4614774	58.02	ug/ml#	69
22) Isophorone	7.460	82	8862883	54.72	ug/ml#	95
23) 2-Nitrophenol	7.580	139	2688456	61.32	ug/ml#	89
24) 2,4-Dimethylphenol	7.654	122	4365540	56.15	ug/ml	90
25) Bis (2-chloroethoxy) m...	7.832	93	5162272	52.95	ug/ml#	96
26) 2,4-Dichlorophenol	8.003	162	4375143	60.23	ug/ml	98
27) 1,2,4-Trichlorobenzene	8.164	180	5239271	57.23	ug/ml	96
28) Benzoic acid	7.860	105	1956831m	52.60	ug/ml	
29) Naphthalene	8.307	128	12605674	49.97	ug/ml	98
30) 4-Chloroaniline	8.410	127	5667664	57.80	ug/ml#	95
31) Hexachlorobutadiene	8.547	225	3493367	59.58	ug/ml	100
32) p-Chloro-m-cresol	9.388	107	4256236	61.74	ug/ml	91

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071812.D
 Acq On : 18 Jul 2025 07:37 pm
 Operator : BMS
 Sample : SEQ-CAL6
 Misc : SVOC
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

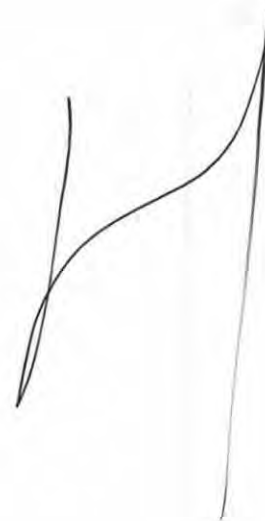
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.691	142	8725125	54.90	ug/ml	97
34) 1-Methylnaphthalene	9.897	142	9026319	54.74	ug/ml	94
35) Hexachlorocyclopentadiene	10.029	237	2406601	61.98	ug/ml	99
37) 2,4,6-Trichlorophenol	10.298	196	3242611	66.34	ug/ml	98
38) 2,4,5-Trichlorophenol	10.372	198	3271377	67.51	ug/ml	98
40) 2-Chloronaphthalene	10.738	162	9060300	56.08	ug/ml#	97
41) 2-Nitroaniline	10.990	65	2230513	63.03	ug/ml#	79
42) 1,4-Dinitrobenzene	11.328	75	1573356	61.06	ug/ml#	43
43) 1,2-Dinitrobenzene	11.688	168	1231296	65.30	ug/ml	97
44) Dimethyl phthalate	11.471	163	10685303	57.29	ug/ml#	97
45) Acenaphthylene	11.665	152	13701863	54.83	ug/ml	98
46) 2,6-Dinitrotoluene	11.580	165	2688588	65.06	ug/ml#	88
47) 1,3-Dinitrobenzene	11.499	168	1843373	60.75	ug/ml#	67
48) 3-Nitroaniline	11.946	138	2394062	65.31	ug/ml	87
49) Acenaphthene	12.072	154	8471109	55.58	ug/ml	99
50) 2,4-Dinitrophenol	12.180	184	818848	61.33	ug/ml#	86
51) Dibenzofuran	12.472	168	12045763	55.79	ug/ml	96
52) 4-Nitrophenol	12.392	109	1239844	57.90	ug/ml#	79
53) 2,4-Dinitrotoluene	12.501	165	3265595	61.15	ug/ml	90
54) 2,3,5,6-Tetrachlorophenol	12.672	232	2728057	61.19	ug/ml	98
55) 2,3,4,6-Tetrachlorophenol	12.775	232	2813728	60.48	ug/ml	97
56) Diethyl phthalate	13.125	149	10739176	59.30	ug/ml	93
57) Fluorene	13.279	166	10206169	56.45	ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.319	204	5497274	57.88	ug/ml	98
59) 4-Nitroaniline	13.365	138	1551290	56.78	ug/ml#	87
60) 4,6-Dinitro-2-methylph...	13.451	198	1416100	62.06	ug/ml#	71
61) N-Nitrosodiphenylamine	13.617	169	8758662	58.16	ug/ml	95
62) Azobenzene	13.697	77	8148710	53.73	ug/ml#	90
65) 4-Bromophenyl phenyl e...	14.475	248	3563826	62.00	ug/ml	98
66) Hexachlorobenzene	14.566	284	4270755	60.55	ug/ml	92
67) Pentachlorophenol	14.984	266	1955873	58.42	ug/ml	99
68) Phenanthrene	15.362	178	12258481	51.23	ug/ml	98
69) Anthracene	15.453	178	12228205	52.43	ug/ml	98
70) Carbazole	15.734	167	10984735	56.28	ug/ml	99
71) Di-n-butyl phthalate	16.289	149	12621851	50.98	ug/ml	99
72) Fluoranthene	17.027	202	11408682	45.88	ug/ml	96
74) Pyrene	17.290	202	11537654	49.43	ug/ml	93
76) Butyl benzyl phthalate	17.983	149	6173763m	65.23	ug/ml	
77) Bis (2-ethylhexyl) adi...	18.051	129	5148583	65.59	ug/ml#	80
78) Benzo (a) anthracene	18.549	228	10757866	56.88	ug/ml	97
79) Chrysene	18.583	228	9525695	51.20	ug/ml	96
80) Bis (2-ethylhexyl) pht...	18.532	149	8138554	63.07	ug/ml#	89
82) Di-n-octyl phthalate	19.110	149	12110075	60.97	ug/ml#	81
83) Benzo (b) fluoranthene	19.550	252	10438245	64.28	ug/ml	97
84) Benzo (k) fluoranthene	19.579	252	9646847	54.34	ug/ml#	94
85) Benzo (a) pyrene	19.882	252	9530820	62.21	ug/ml	94
86) Indeno (1,2,3-cd) pyrene	21.244	276	11145940	63.00	ug/ml#	83
87) Dibenz (a,h) anthracene	21.244	278	8700490	63.52	ug/ml#	93
88) Benzo (g,h,i) perylene	21.627	276	8884946	61.95	ug/ml#	89

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

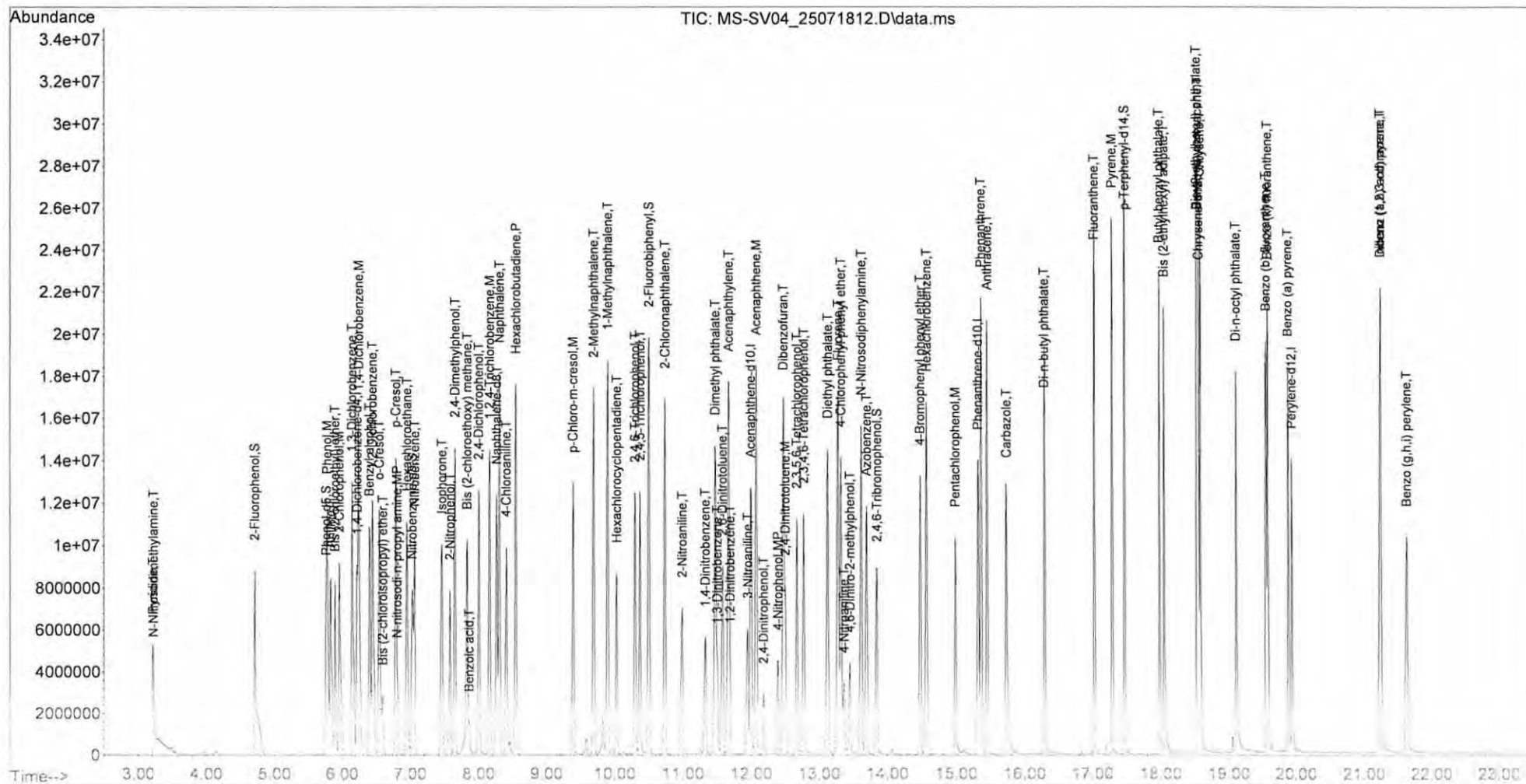
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



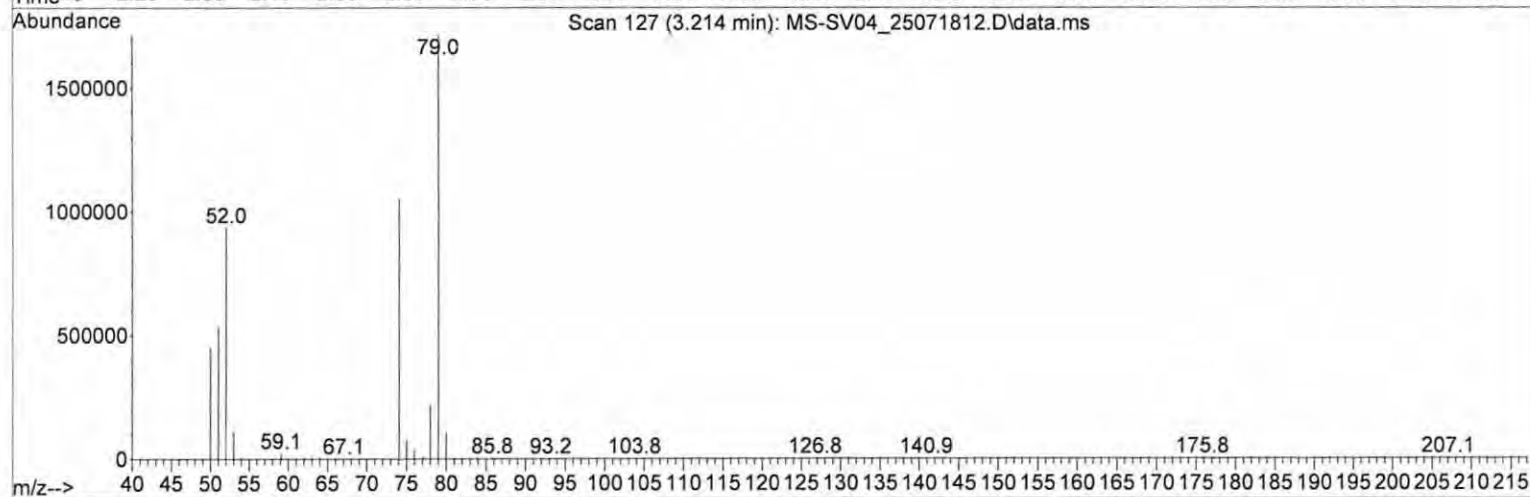
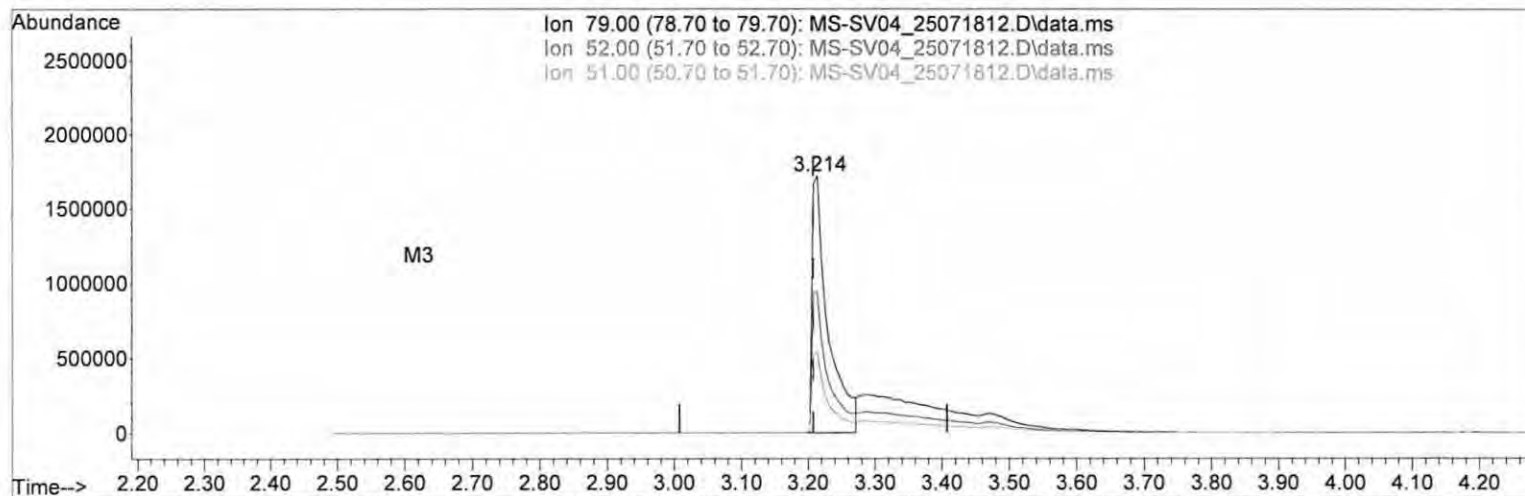
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(2) Pyridine (T)

3.214min (+ 0.006) 32.93 ug/ml

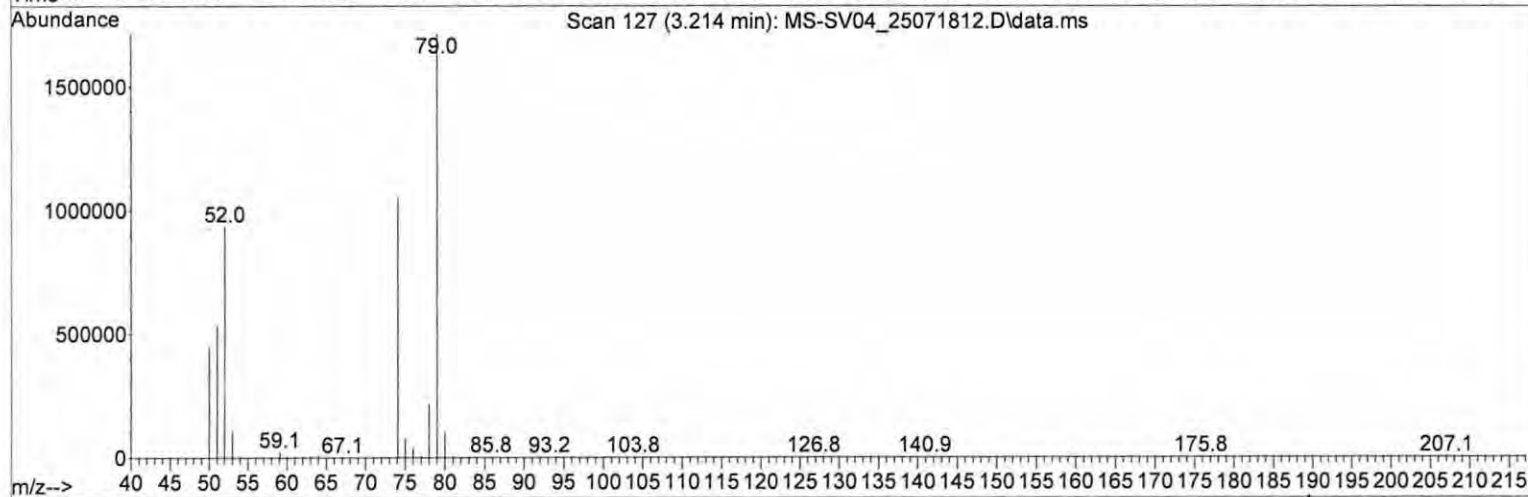
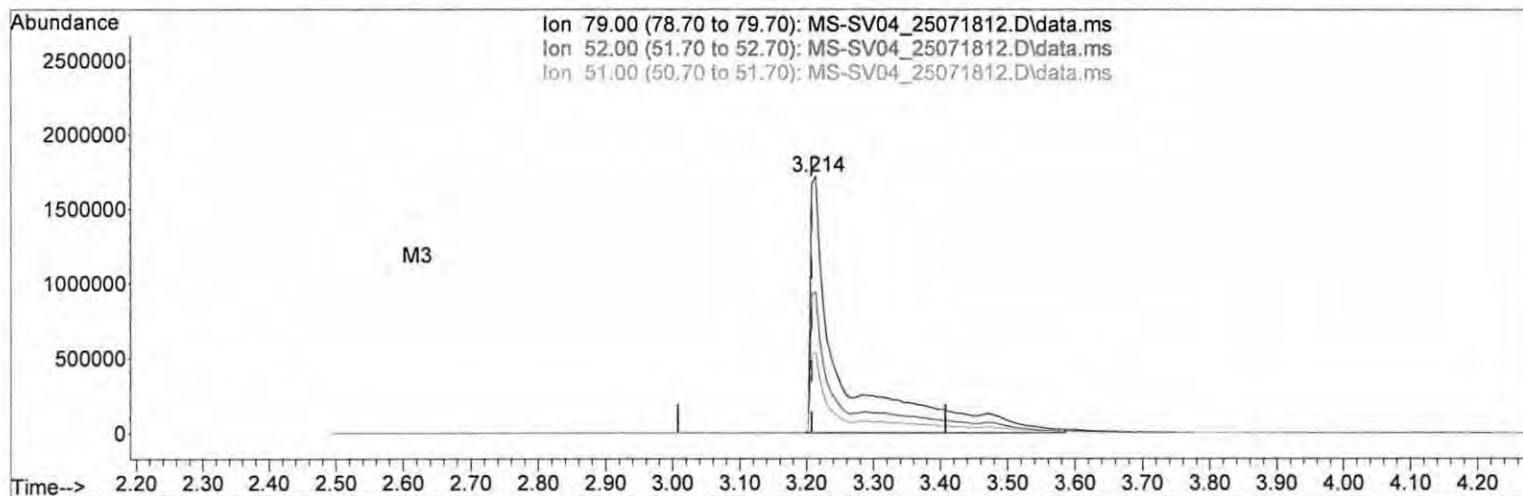
response 2856237

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	52.89#
51.00	62.40	29.68#
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(2) Pyridine (T)

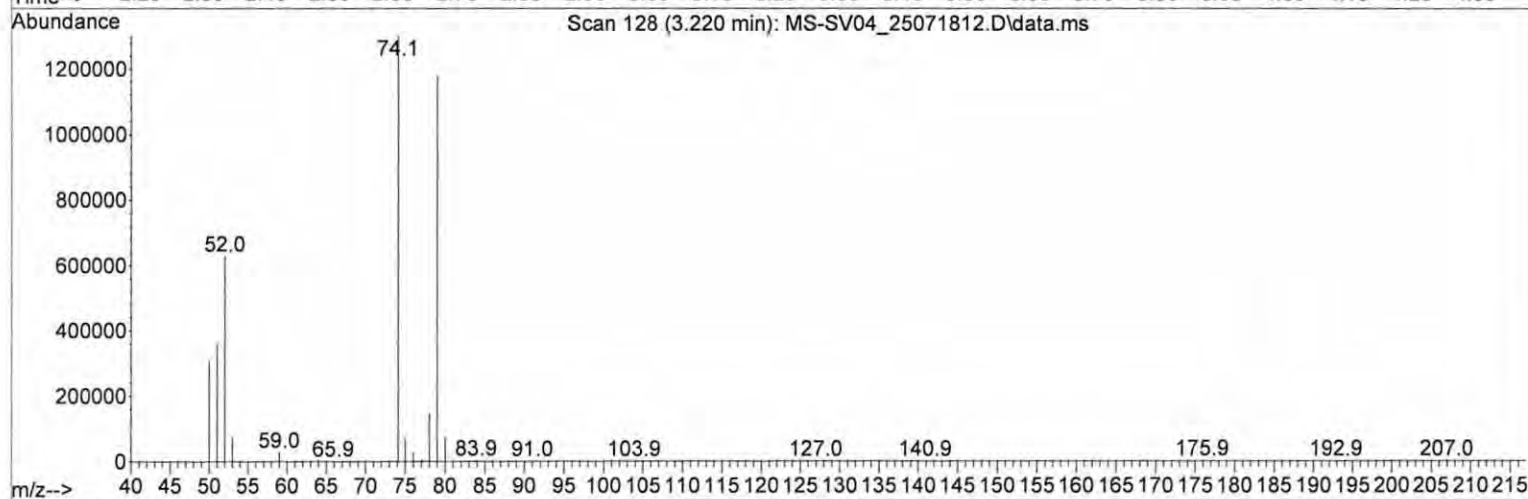
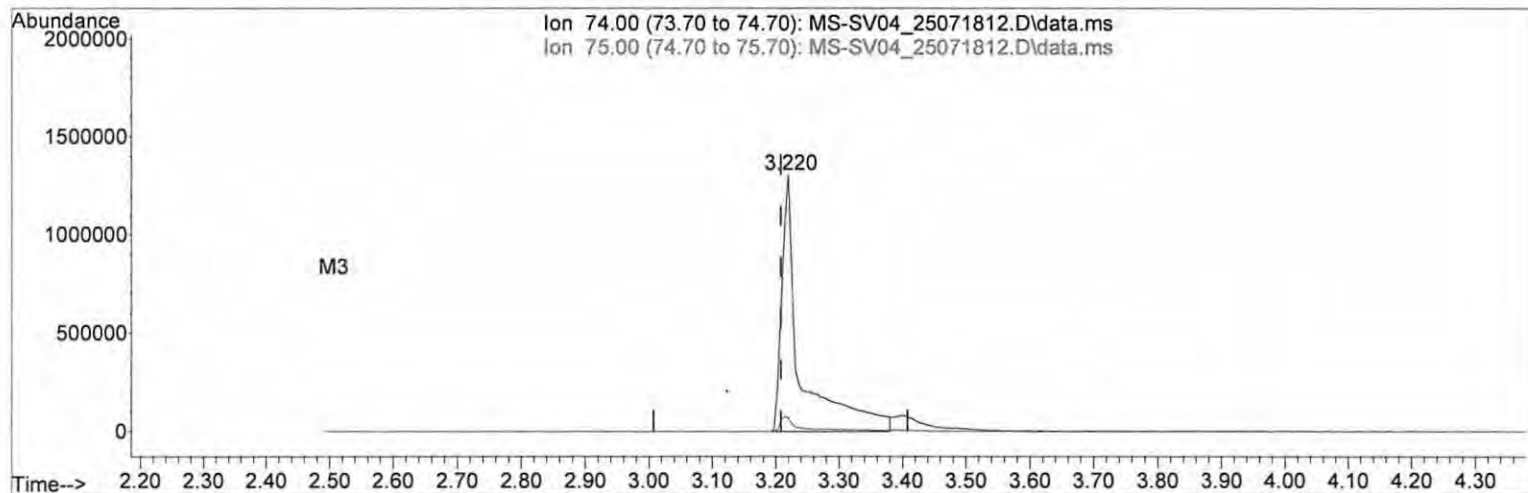
3.214min (+ 0.006) 62.43 ug/ml m

response 5415993

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	27.89#
51.00	62.40	15.65#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(3) N-Nitrosodimethylamine (T)

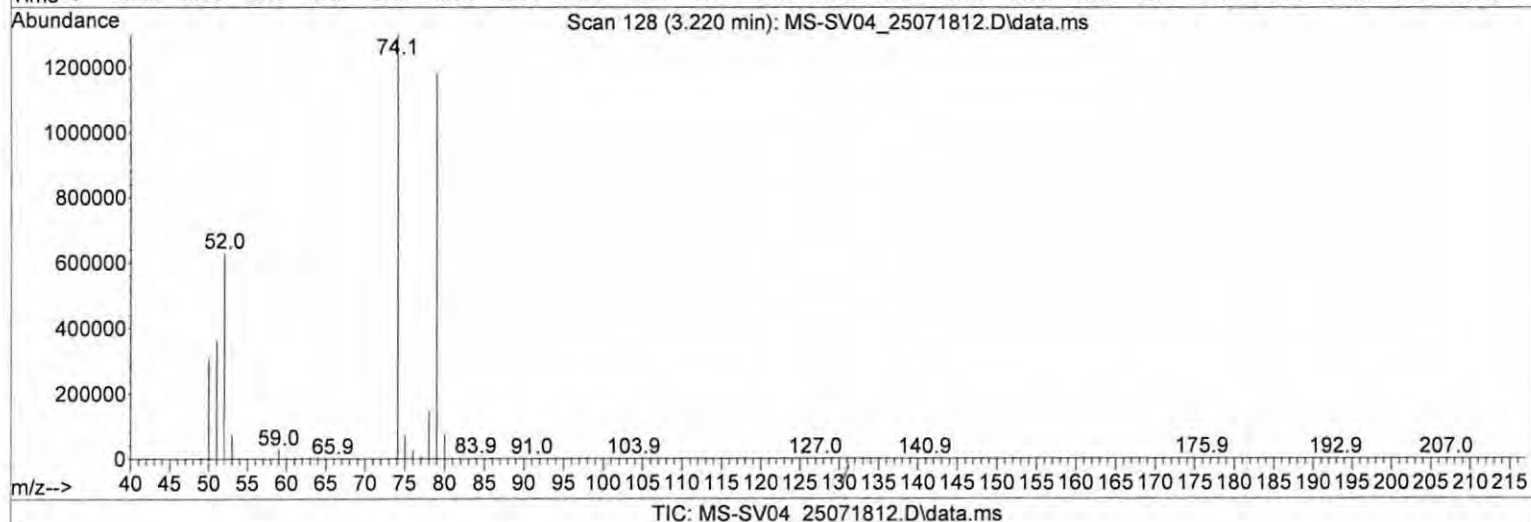
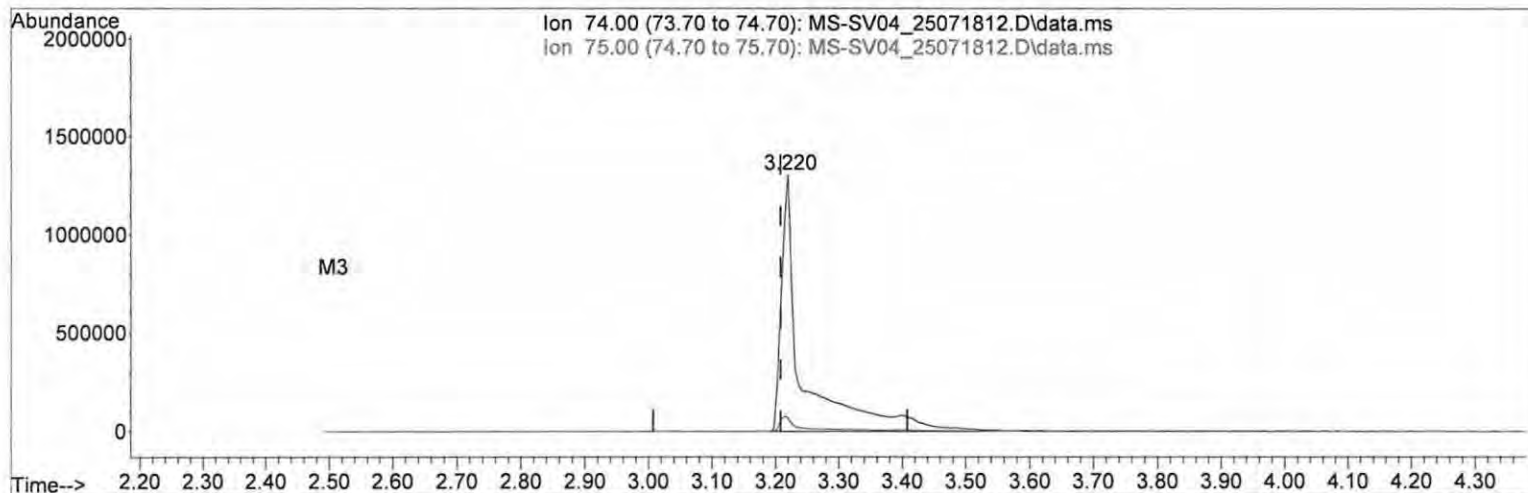
3.220min (+ 0.012) 55.34 ug/ml

response 2717674

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.62
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(3) N-Nitrosodimethylamine (T)

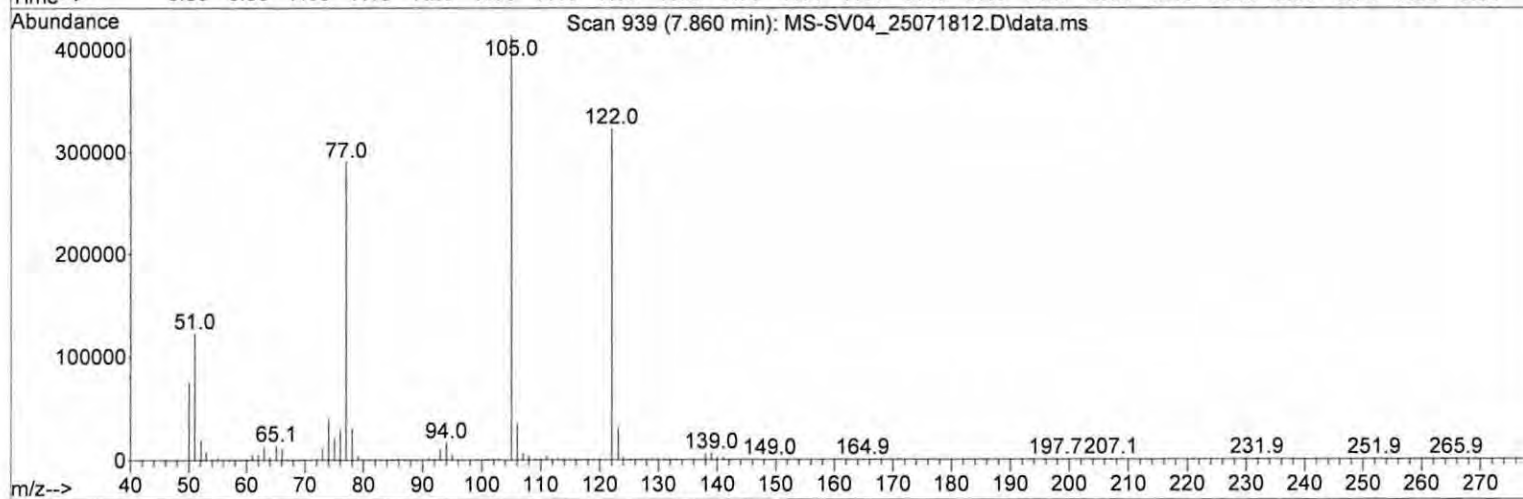
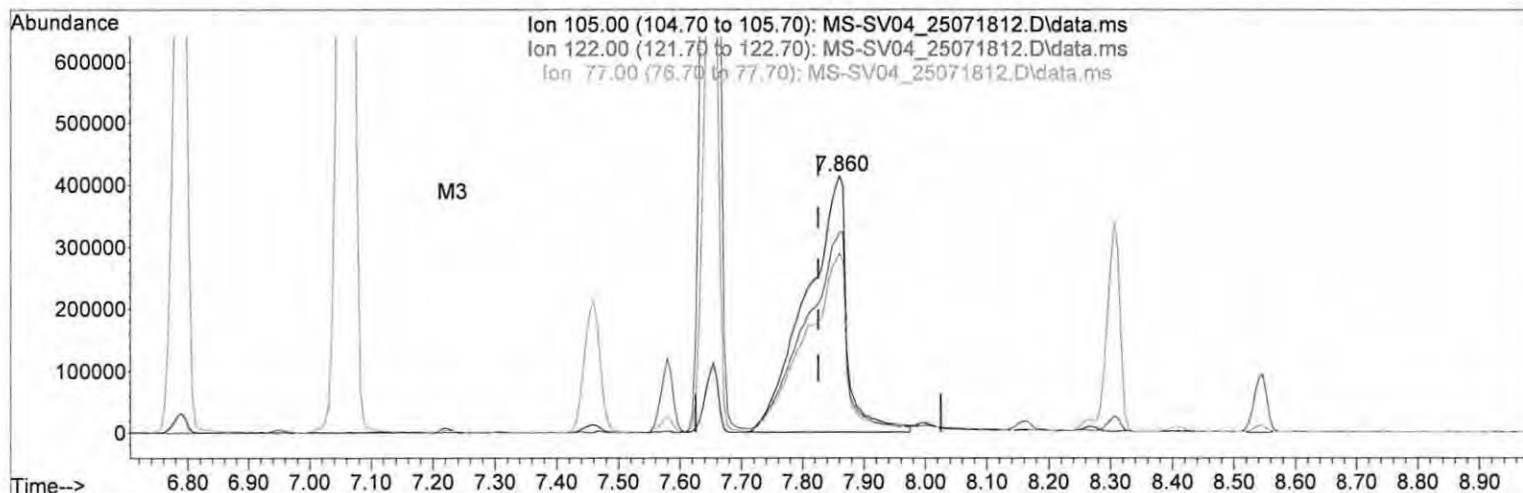
3.220min (+ 0.012) 61.66 ug/ml m

response 3027842

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.05
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(28) Benzoic acid (T)

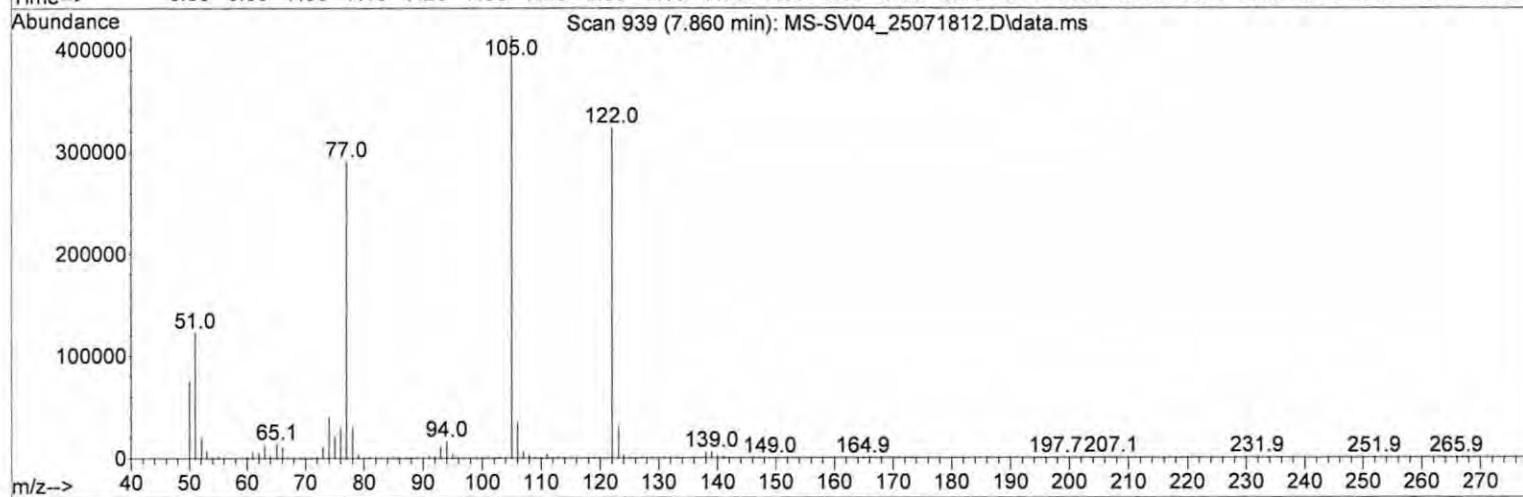
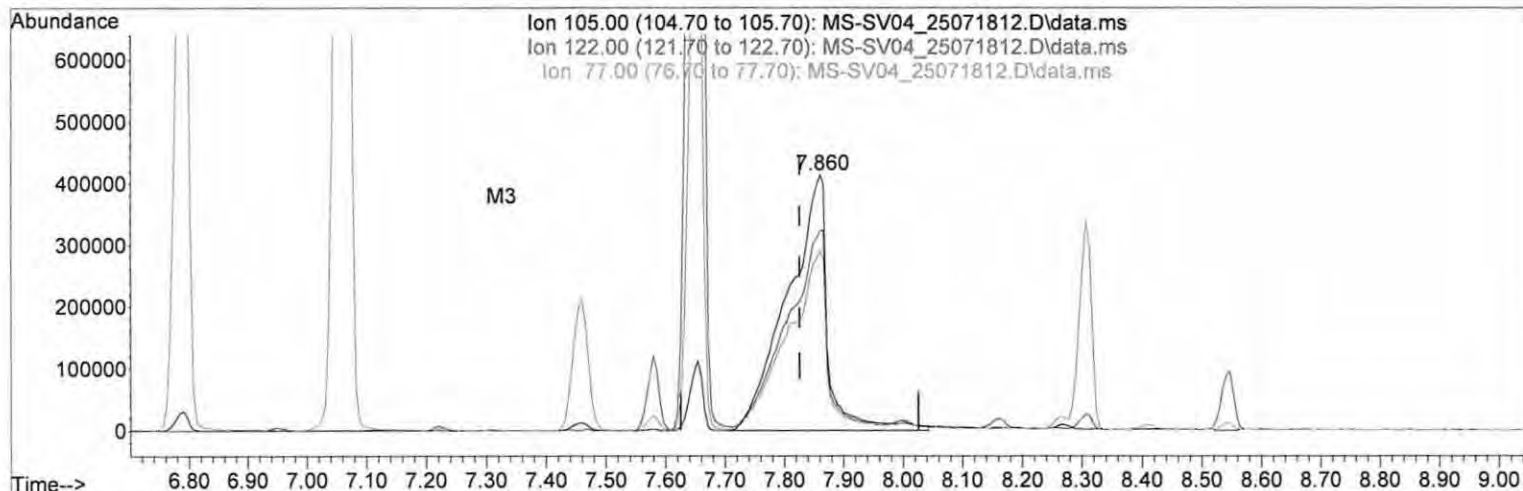
7.860min (+ 0.034) 51.35 ug/ml

response 1905850

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	76.86
77.00	60.90	69.04
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(28) Benzoic acid (T)

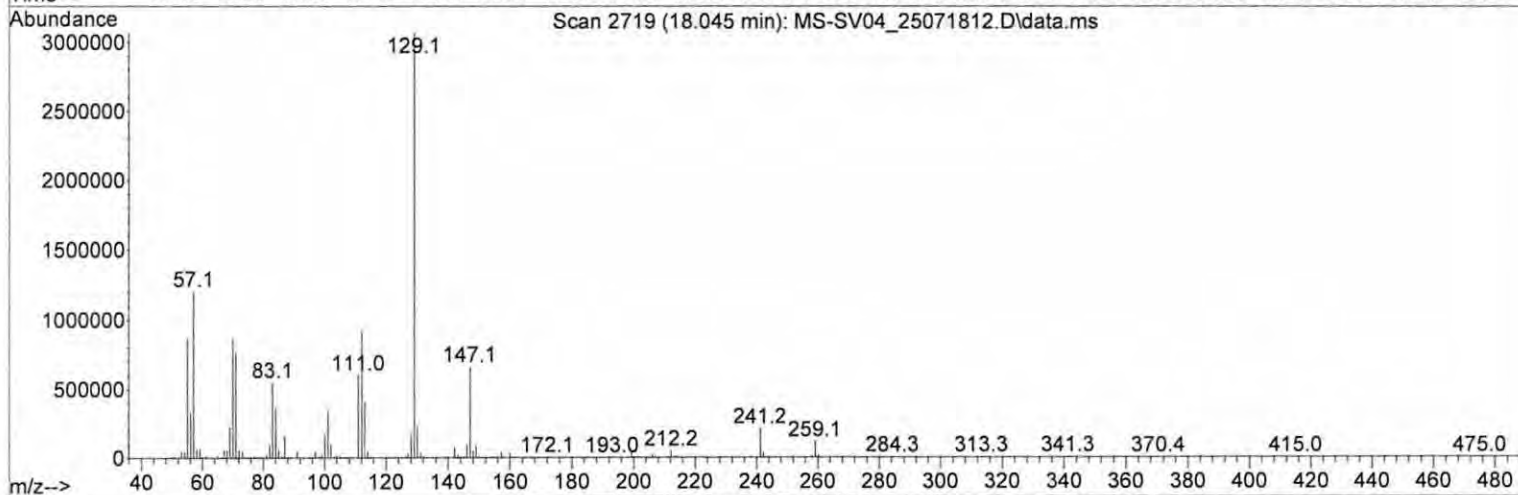
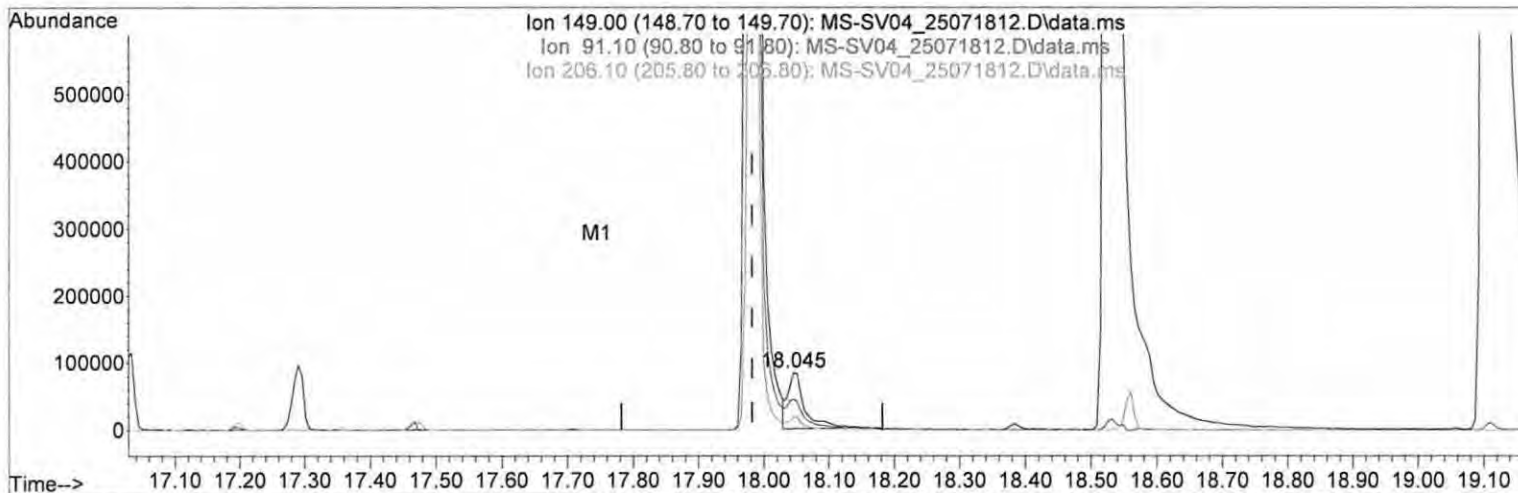
7.860min (+ 0.034) 52.60 ug/ml m

response 1956831

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	74.86
77.00	60.90	67.24
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071812.D\data.ms

(76) Butyl benzyl phthalate (T)

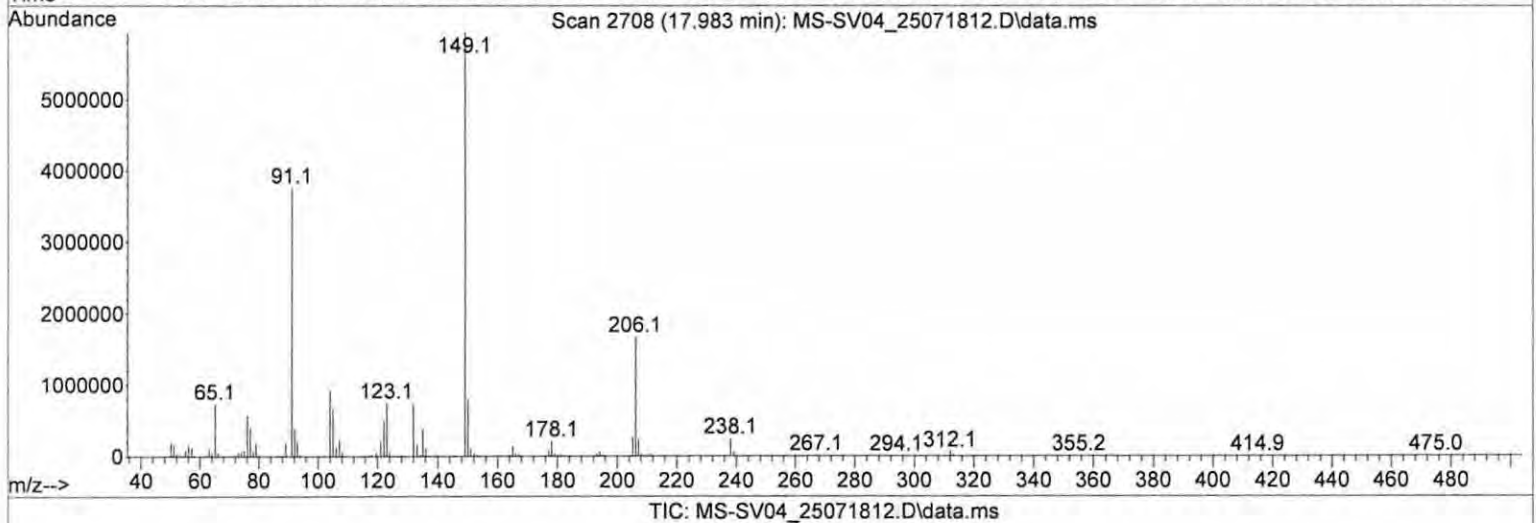
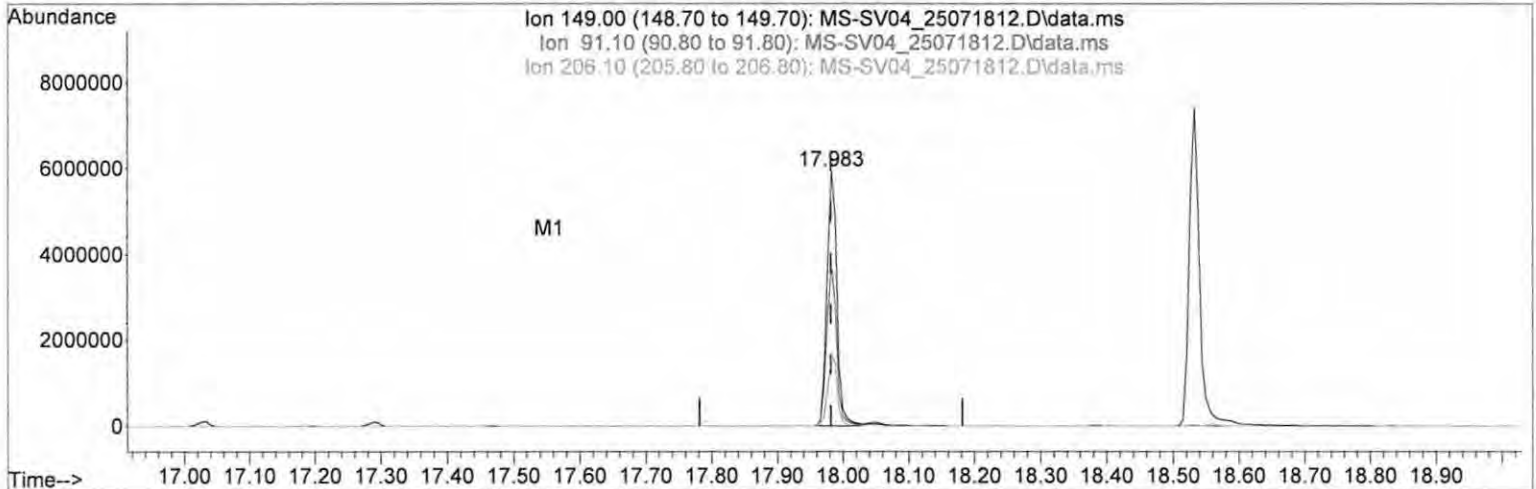
18.045min (+ 0.063) 3.38 ug/ml

response 151831

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	51.54
206.10	20.30	20.62
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071812.D
Acq On : 18 Jul 2025 07:37 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : SVOC
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 09:19:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(76) Butyl benzyl phthalate (T)

17.983min (+ 0.001) 65.23 ug/ml m

response 6173763

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	1.27#
206.10	20.30	0.51#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071813.D
 Acq On : 18 Jul 2025 08:06 pm
 Operator : BMS
 Sample : SEQ-CAL7
 Misc : SVOC
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	3211959	40.00	ug/ml	0.00
21) Naphthalene-d8	8.266	136	10892230	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.003	164	6617069	40.00	ug/ml	0.01
63) Phenanthrene-d10	15.322	188	10629740	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.566	240	7056649	40.00	ug/ml	0.00
81) Perylene-d12	19.945	264	7187903	40.00	ug/ml	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.719	112	7696948	74.04	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	74.04%#
5) Phenol-d5	5.772	99	7940292	70.85	ug/ml	0.02
Spiked Amount	100.000	Range	5 - 33	Recovery	=	70.85%#
19) Nitrobenzene-d5	7.036	82	7203275	78.01	ug/ml	0.01
Spiked Amount	50.000	Range	10 - 99	Recovery	=	156.02%#
39) 2-Fluorobiphenyl	10.509	172	15803955	66.77	ug/ml	0.01
Spiked Amount	50.000	Range	23 - 87	Recovery	=	133.54%#
64) 2,4,6-Tribromophenol	13.857	330	3601831	83.90	ug/ml	0.02
Spiked Amount	100.000	Range	20 - 86	Recovery	=	83.90%
75) p-Terphenyl-d14	17.473	244	12917155	62.82	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	125.64%

Target Compounds

					Qvalue
2) Pyridine	3.208	79	7165743m	73.82	ug/ml
3) N-Nitrosodimethylamine	3.220	74	4048469m	73.68	ug/ml
6) Aniline	5.834	93	10045291	75.12	ug/ml
7) Phenol	5.789	94	8222391	74.14	ug/ml#
8) Bis (2-chloroethyl) ether	5.897	93	6073719	63.99	ug/ml#
9) 2-Chlorophenol	5.960	128	7535545	73.95	ug/ml#
10) 1,3-Dichlorobenzene	6.149	146	8532030	70.68	ug/ml
11) 1,4-Dichlorobenzene	6.241	146	8335387	70.70	ug/ml
12) Benzyl alcohol	6.412	108	4721969	79.83	ug/ml
13) 1,2-Dichlorobenzene	6.452	146	8143962	70.93	ug/ml
14) o-Cresol	6.555	108	6190126	71.10	ug/ml
15) Bis (2-chloroisopropyl)...	6.601	121	2700047	71.70	ug/ml#
16) p-Cresol	6.802	107	6787991	73.67	ug/ml
17) N-nitrosodi-n-propyl a...	6.836	70	4266689	73.02	ug/ml#
18) Hexachloroethane	6.950	117	3369580	76.39	ug/ml
20) Nitrobenzene	7.070	77	6329554	71.11	ug/ml#
22) Isophorone	7.471	82	12759443	69.82	ug/ml#
23) 2-Nitrophenol	7.585	139	4040903	81.13	ug/ml#
24) 2,4-Dimethylphenol	7.666	122	6263383	71.41	ug/ml
25) Bis (2-chloroethoxy) m...	7.837	93	7191430	65.38	ug/ml#
26) 2,4-Dichlorophenol	8.015	162	6459465	78.81	ug/ml
27) 1,2,4-Trichlorobenzene	8.163	180	7383191	71.48	ug/ml
28) Benzoic acid	7.929	105	3433765m	79.27	ug/ml
29) Naphthalene	8.306	128	15681598	55.10	ug/ml#
30) 4-Chloroaniline	8.421	127	8204687	74.17	ug/ml#
31) Hexachlorobutadiene	8.547	225	4913610	74.28	ug/ml
32) p-Chloro-m-cresol	9.399	107	6174705	79.39	ug/ml

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071813.D
 Acq On : 18 Jul 2025 08:06 pm
 Operator : BMS
 Sample : SEQ-CAL7
 Misc : SVOC
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

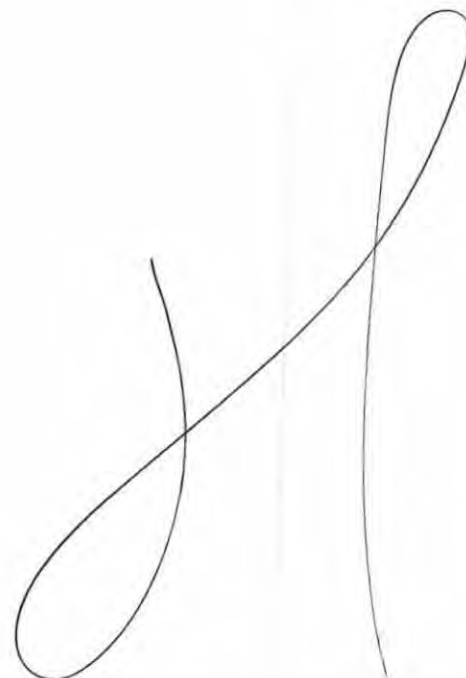
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.697	142	12240827	68.26	ug/ml	97
34) 1-Methylnaphthalene	9.903	142	12480354	67.09	ug/ml#	94
35) Hexachlorocyclopentadiene	10.029	237	4478528	99.22	ug/ml#	99
37) 2,4,6-Trichlorophenol	10.309	196	4962364	88.69	ug/ml	98
38) 2,4,5-Trichlorophenol	10.378	198	4987968	89.92	ug/ml	99
40) 2-Chloronaphthalene	10.744	162	12861294	69.54	ug/ml#	96
41) 2-Nitroaniline	11.001	65	3271489	80.34	ug/ml#	75
42) 1,4-Dinitrobenzene	11.339	75	2428531	81.65	ug/ml#	41
43) 1,2-Dinitrobenzene	11.711	168	1883357	87.25	ug/ml	97
44) Dimethyl phthalate	11.494	163	15201267	71.19	ug/ml#	96
45) Acenaphthylene	11.677	152	18941737	66.22	ug/ml	95
46) 2,6-Dinitrotoluene	11.597	165	3988692	84.32	ug/ml#	87
47) 1,3-Dinitrobenzene	11.522	168	2845731	81.38	ug/ml#	59
48) 3-Nitroaniline	11.969	138	3753065	89.43	ug/ml	86
49) Acenaphthene	12.089	154	12046107	69.04	ug/ml	99
50) 2,4-Dinitrophenol	12.197	184	1791242	110.44	ug/ml#	84
51) Dibenzofuran	12.483	168	17057411	69.02	ug/ml	95
52) 4-Nitrophenol	12.415	109	2126419	85.32	ug/ml#	76
53) 2,4-Dinitrotoluene	12.524	165	4960470	80.73	ug/ml#	76
54) 2,3,5,6-Tetrachlorophenol	12.684	232	4325315	83.89	ug/ml	97
55) 2,3,4,6-Tetrachlorophenol	12.787	232	4447776	82.80	ug/ml	96
56) Diethyl phthalate	13.142	149	15236388	73.50	ug/ml#	90
57) Fluorene	13.290	166	14569029	70.39	ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.330	204	7988323	73.48	ug/ml	99
59) 4-Nitroaniline	13.399	138	2796283m	88.79	ug/ml	
60) 4,6-Dinitro-2-methylph...	13.473	198	2619630	97.14	ug/ml#	69
61) N-Nitrosodiphenylamine	13.634	169	12721220	73.80	ug/ml	93
62) Azobenzene	13.708	77	11220766	64.63	ug/ml#	86
65) 4-Bromophenyl phenyl e...	14.486	248	5380248	78.05	ug/ml	97
66) Hexachlorobenzene	14.578	284	6510634	76.97	ug/ml#	90
67) Pentachlorophenol	14.995	266	3520175	85.08	ug/ml	99
68) Phenanthrene	15.367	178	15827174	55.15	ug/ml#	91
69) Anthracene	15.453	178	15624746	55.86	ug/ml#	91
70) Carbazole	15.739	167	16171702	69.08	ug/ml	98
71) Di-n-butyl phthalate	16.289	149	15089987	50.82	ug/ml#	93
72) Fluoranthene	17.033	202	14646580	49.12	ug/ml#	90
74) Pyrene	17.290	202	14193336	54.27	ug/ml#	84
76) Butyl benzyl phthalate	17.988	149	8517515	79.90	ug/ml#	87
77) Bis (2-ethylhexyl) adi...	18.057	129	7038678	79.65	ug/ml#	78
78) Benzo (a) anthracene	18.549	228	13271237	62.62	ug/ml#	90
79) Chrysene	18.589	228	11140076	53.43	ug/ml#	84
80) Bis (2-ethylhexyl) pht...	18.537	149	10514499	72.55	ug/ml#	85
82) Di-n-octyl phthalate	19.110	149	14466313	62.58	ug/ml#	71
83) Benzo (b) fluoranthene	19.550	252	14616136	77.40	ug/ml	92
84) Benzo (k) fluoranthene	19.579	252	12076753	58.50	ug/ml#	89
85) Benzo (a) pyrene	19.894	252	13645944	76.61	ug/ml	92
86) Indeno (1,2,3-cd) pyrene	21.250	276	17020500	82.74	ug/ml#	83
87) Dibenz (a,h) anthracene	21.261	278	13023970	81.77	ug/ml#	92
88) Benzo (g,h,i) perylene	21.644	276	13678666	82.03	ug/ml#	88

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

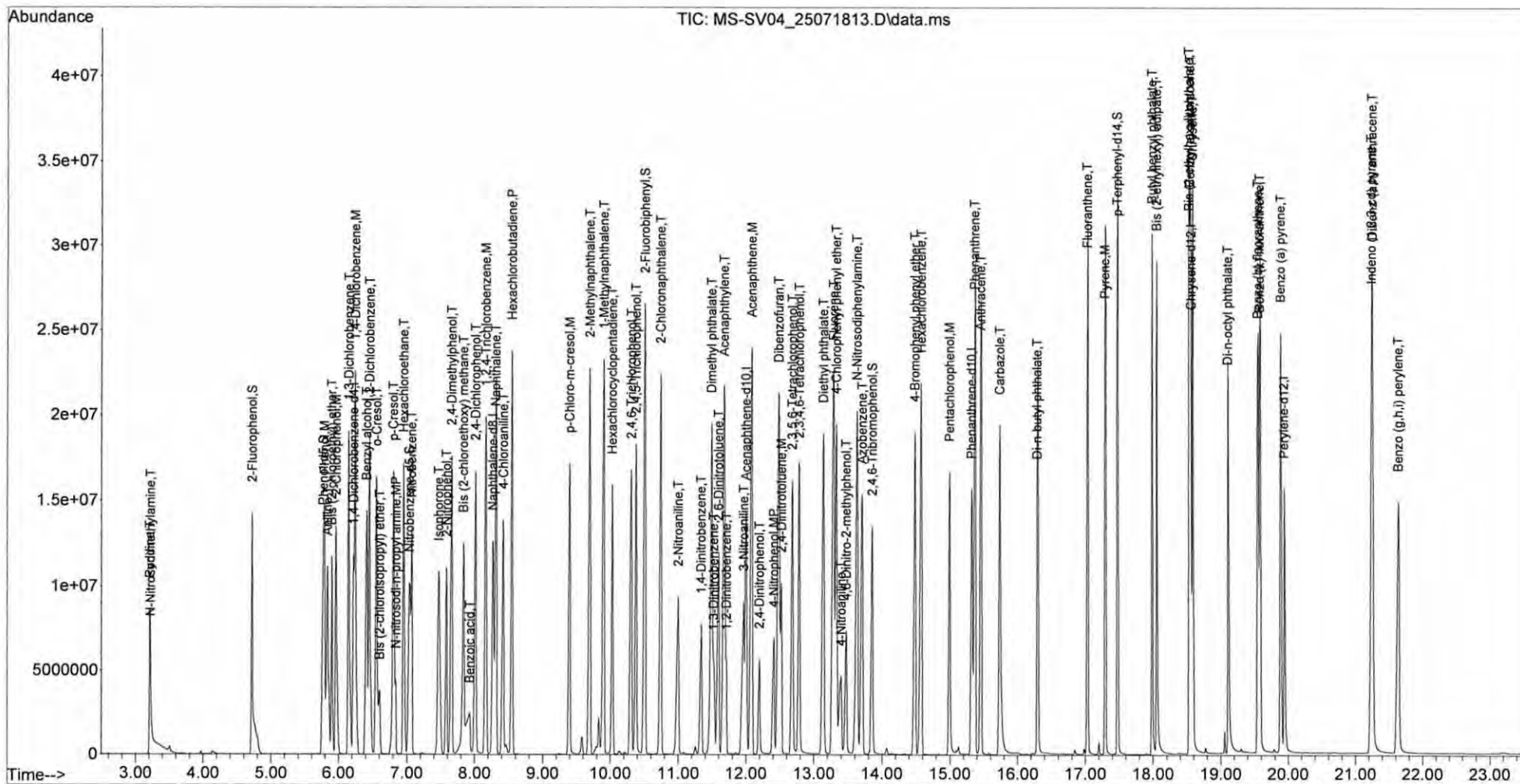
Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

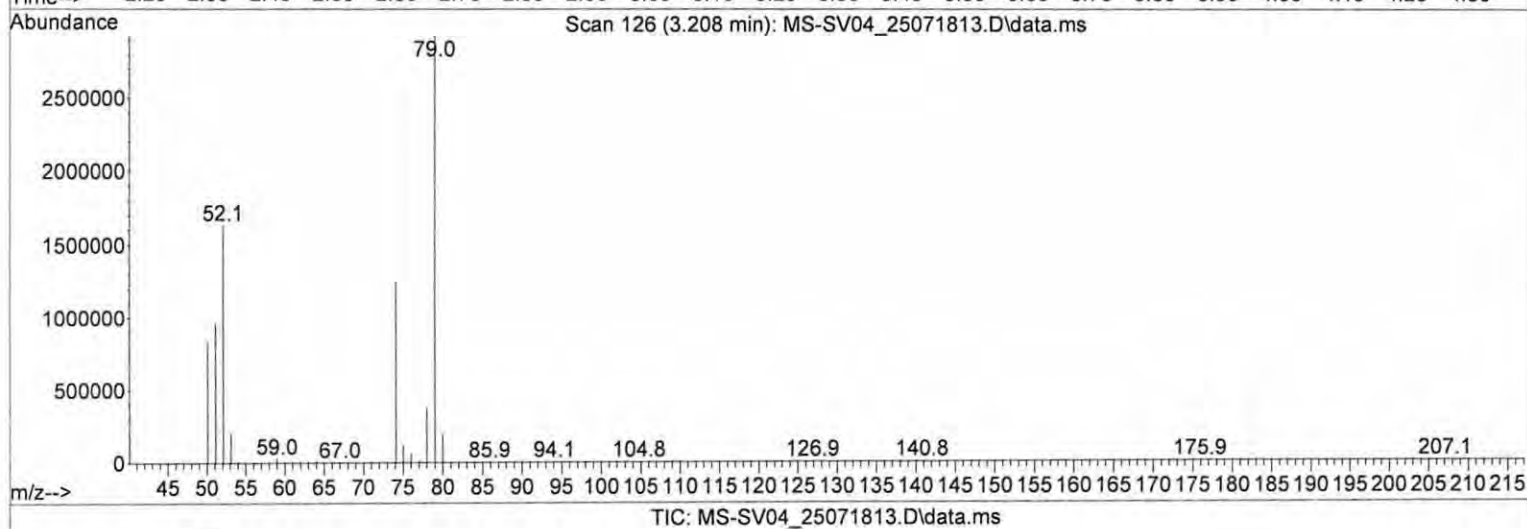
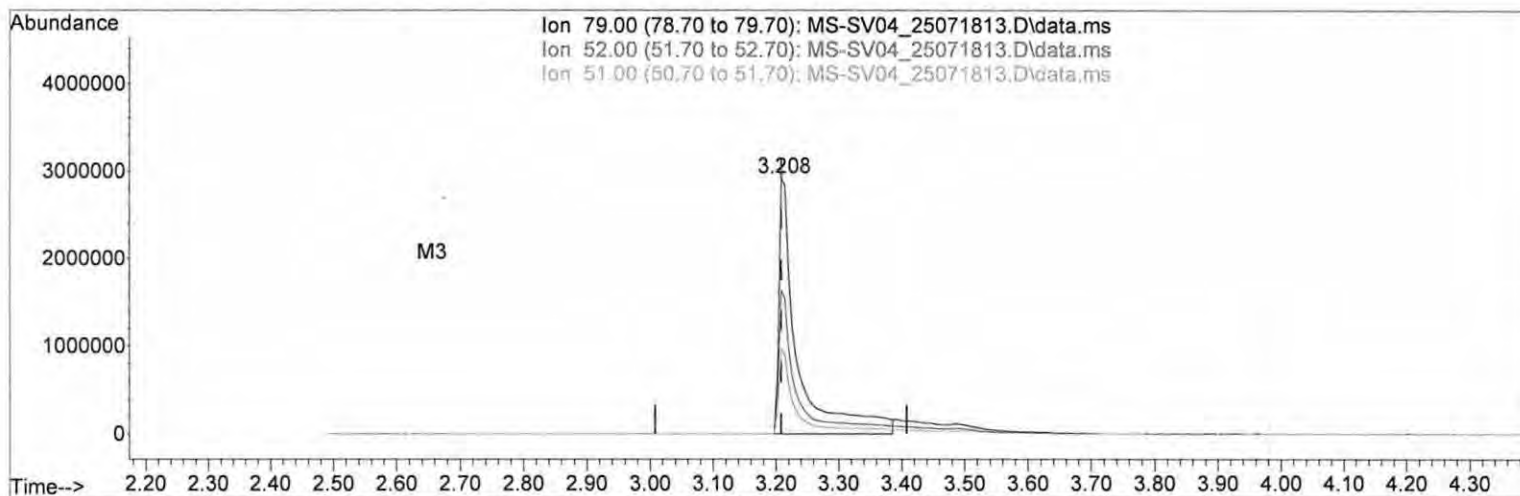


Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071813.D\data.ms

(2) Pyridine (T)

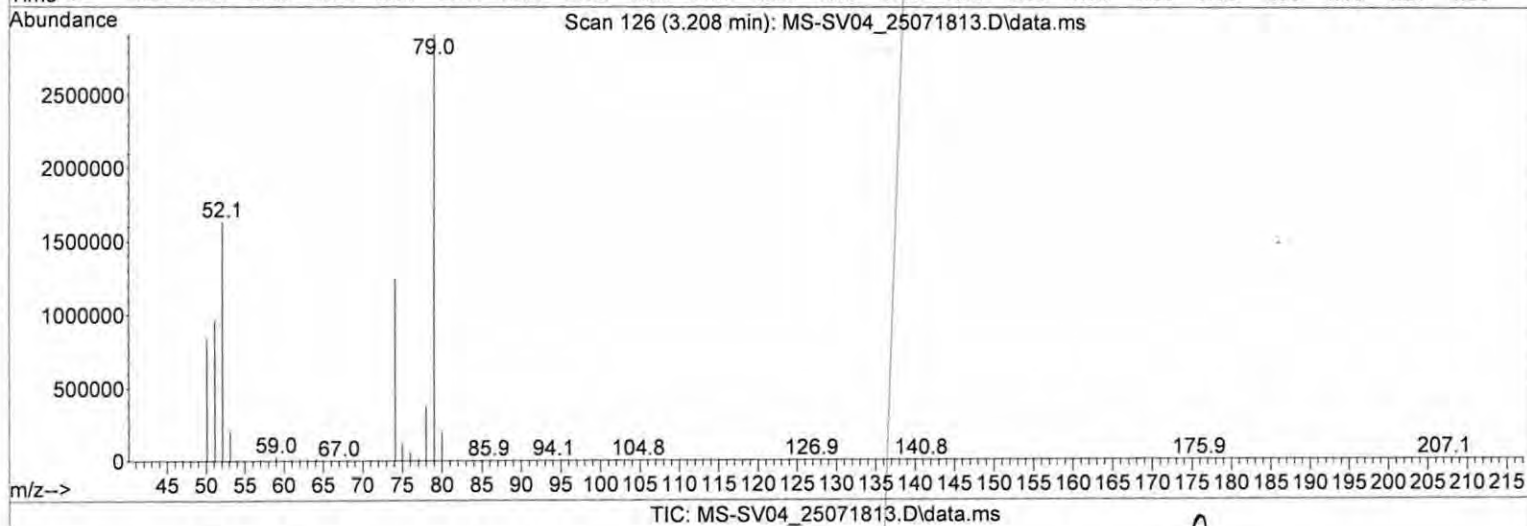
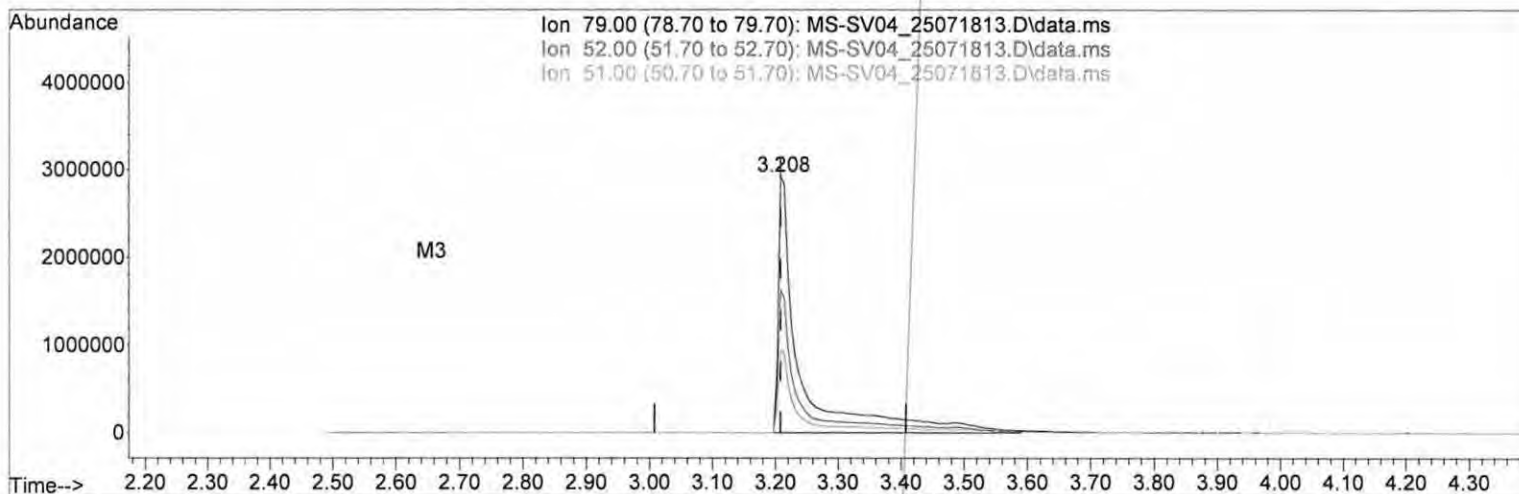
3.208min (+ 0.000) 62.03 ug/ml

response 6021035

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.84#
51.00	62.40	31.21#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071813.D\data.ms

(2) Pyridine (T)

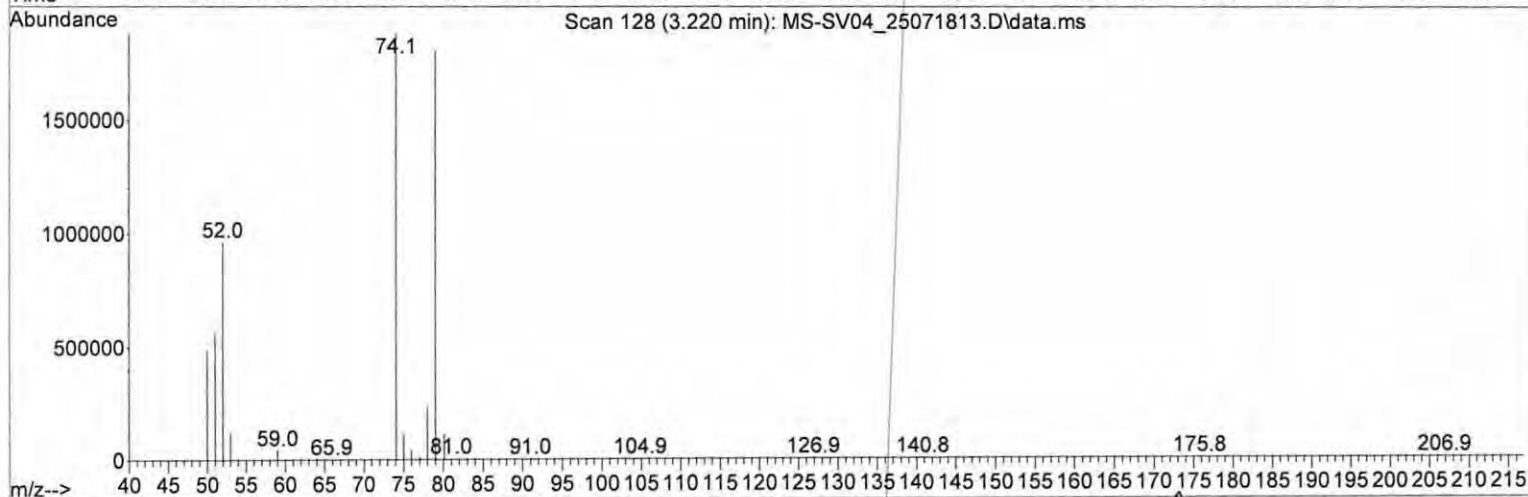
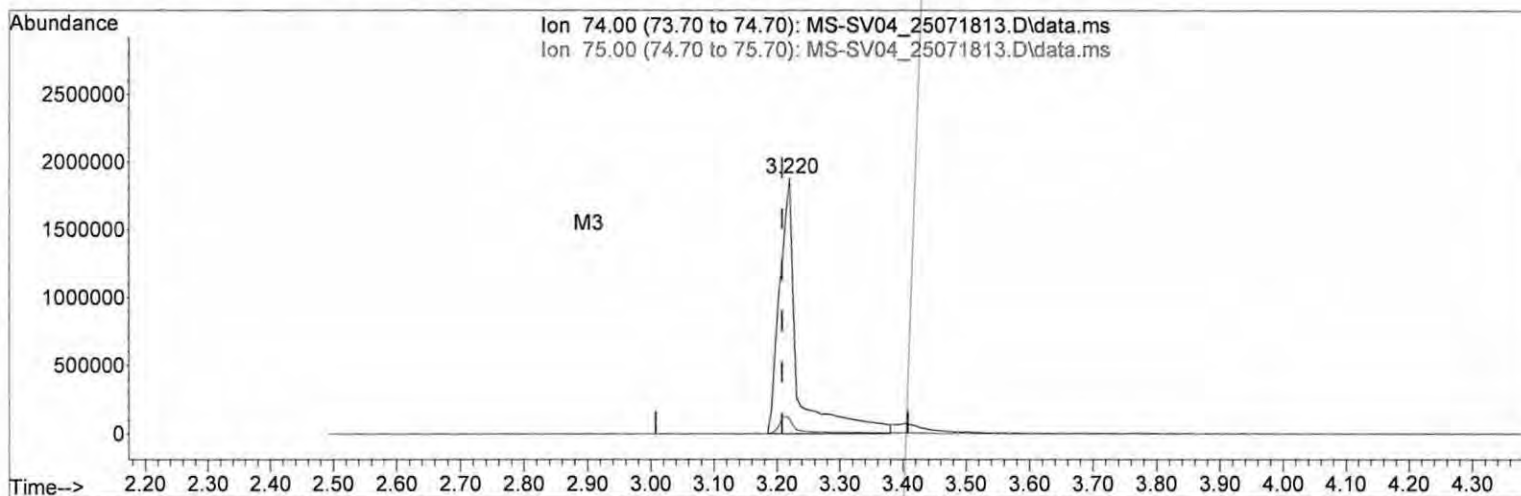
3.208min (+ 0.000) 73.82 ug/ml m

response 7165743

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	46.08#
51.00	62.40	26.22#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071813.D\data.ms

(3) N-Nitrosodimethylamine (T)

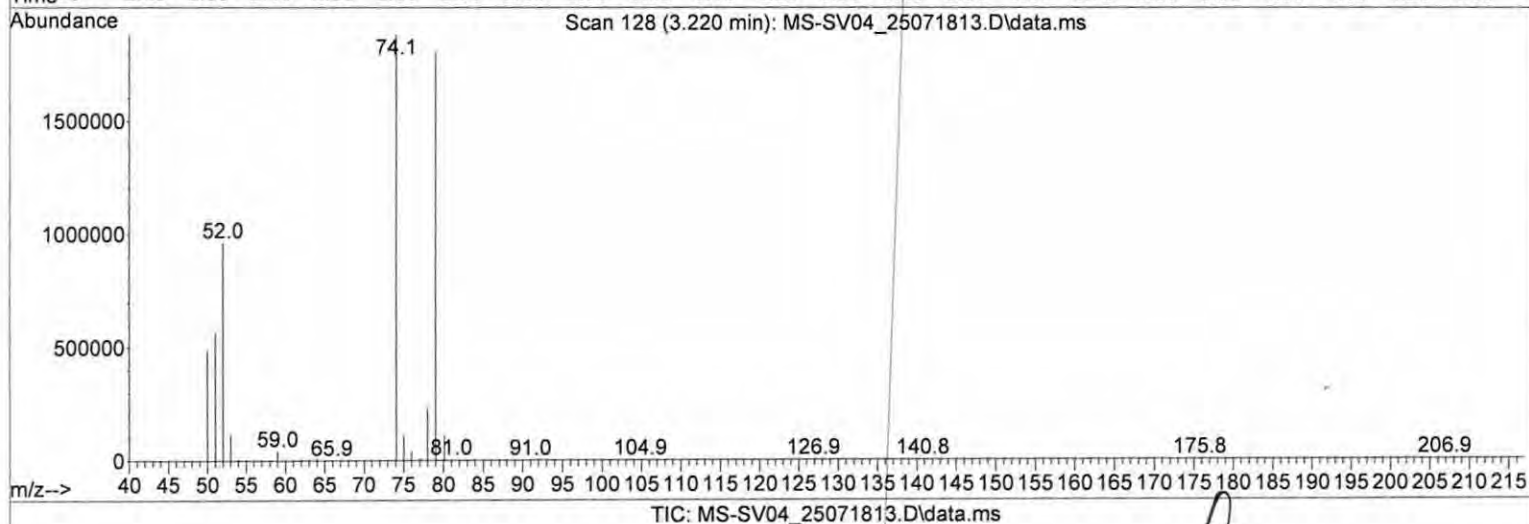
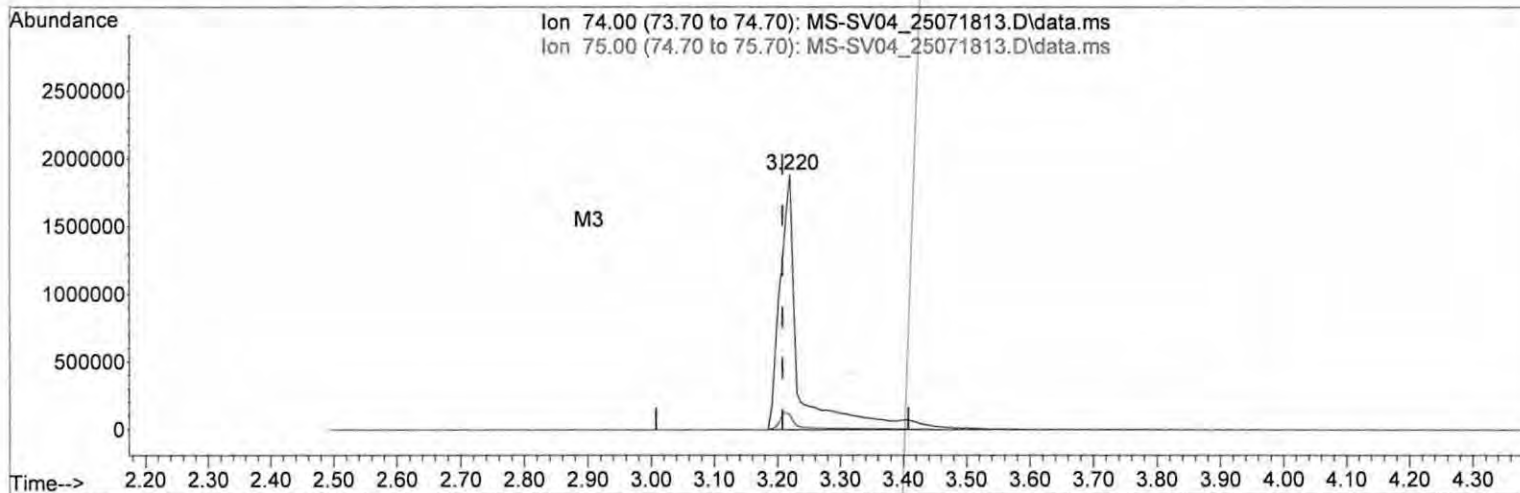
3.220min (+ 0.012) 68.29 ug/ml

response 3752470

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	6.04
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071813.D\data.ms

(3) N-Nitrosodimethylamine (T)

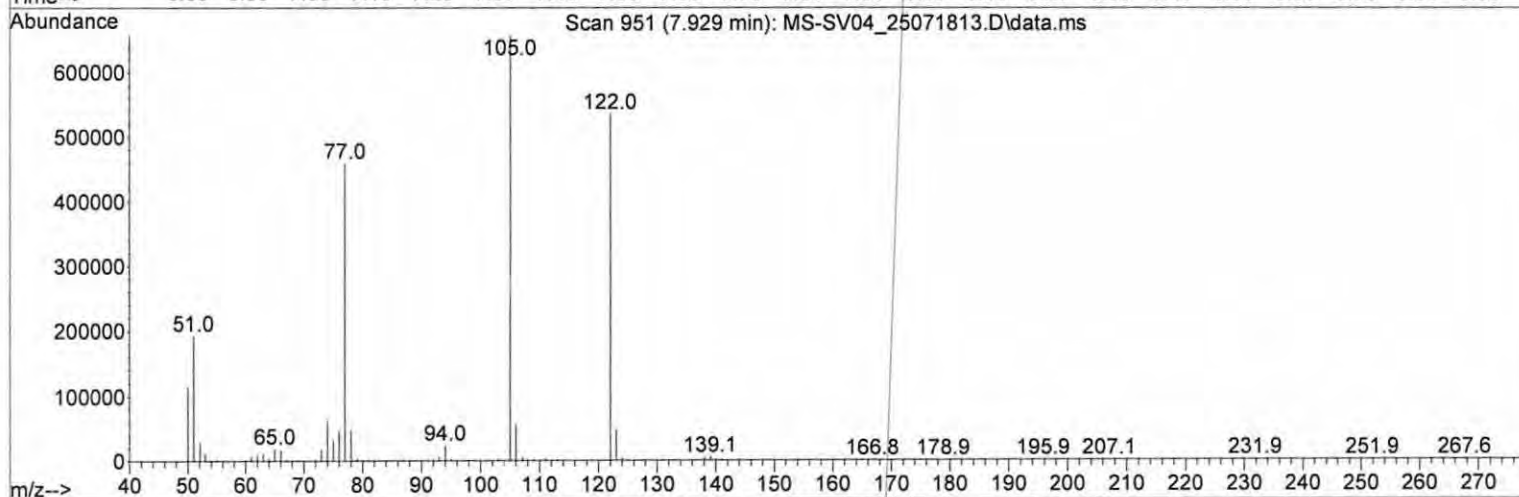
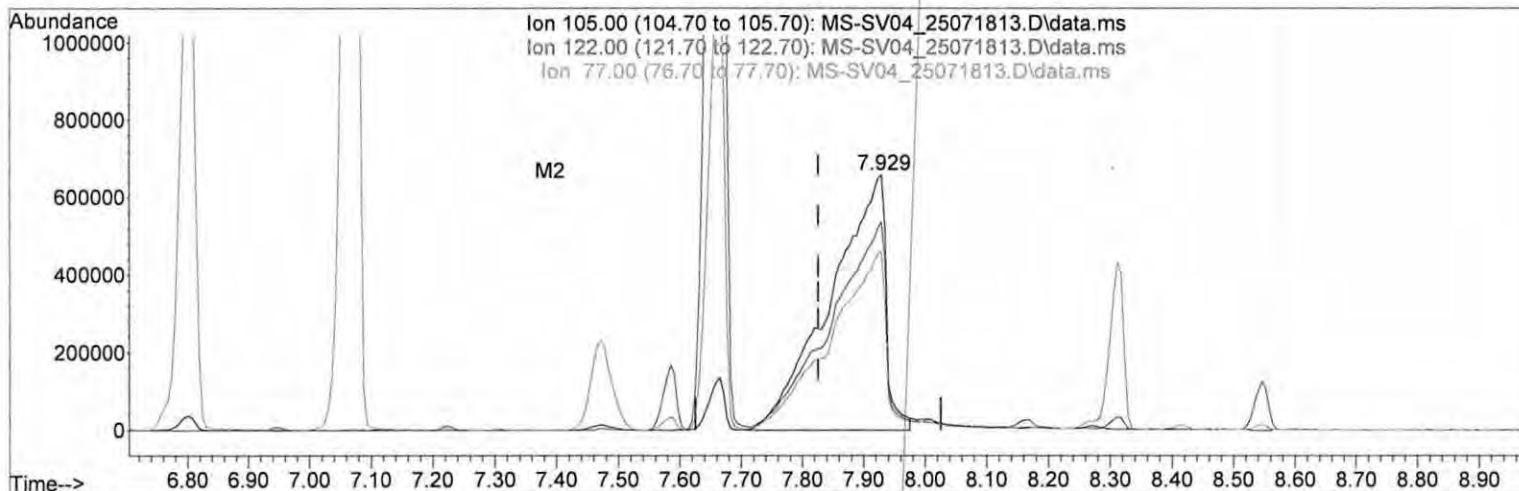
3.220min (+ 0.012) 73.68 ug/ml m

response 4048469

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.59
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071813.D\data.ms

(28) Benzoic acid (T)

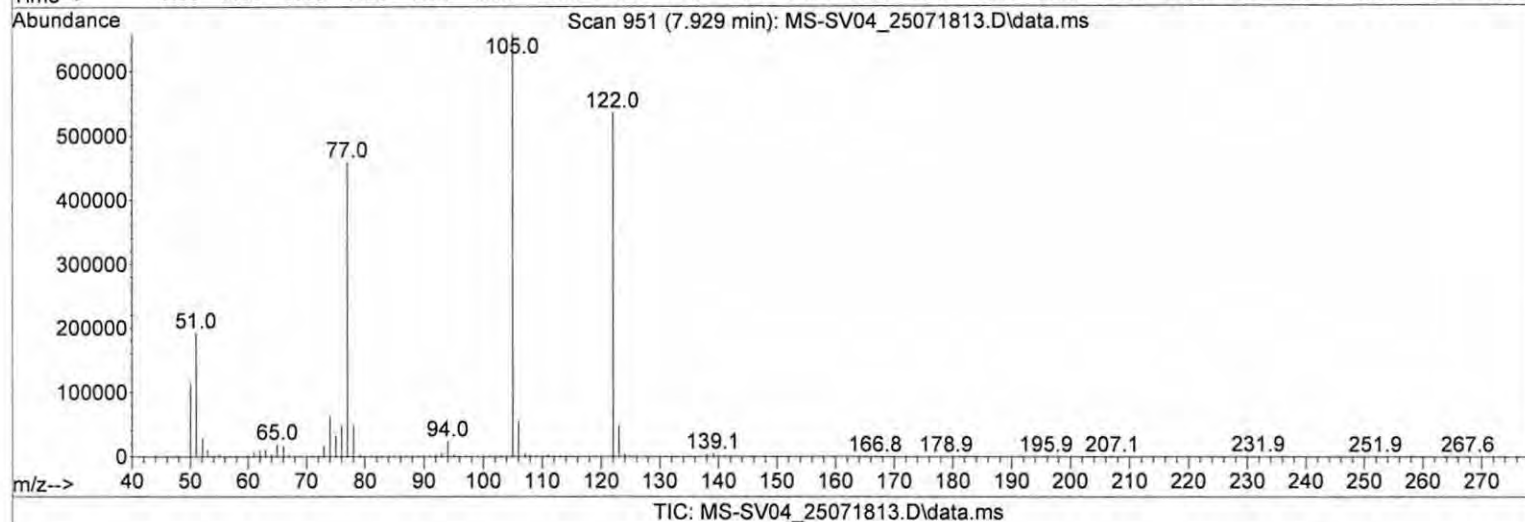
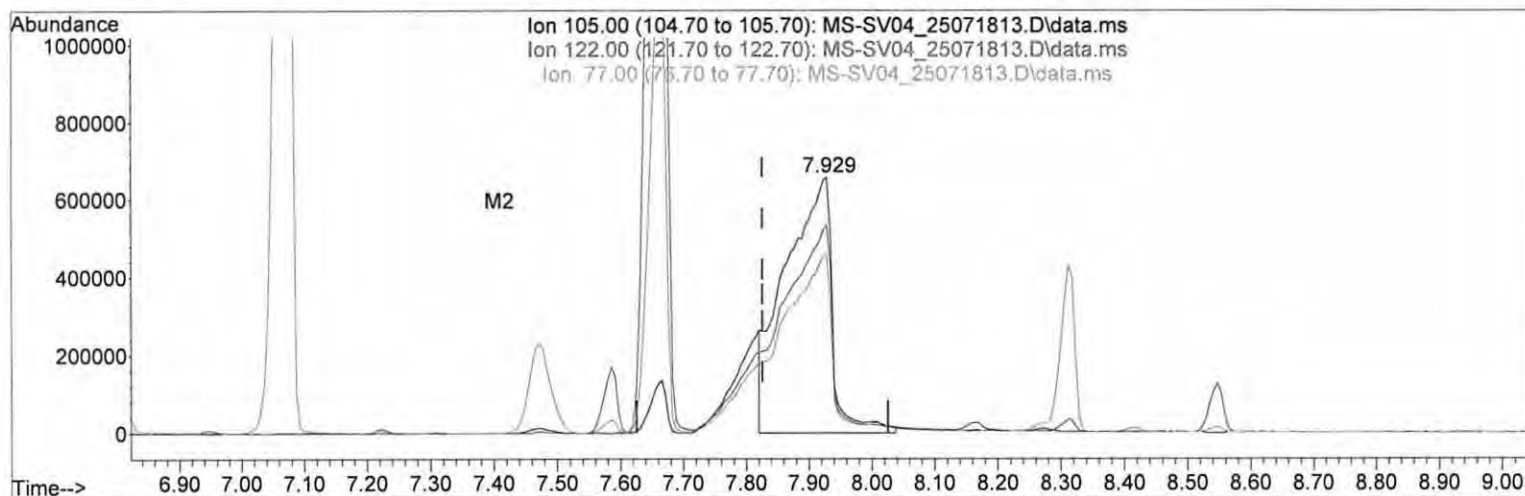
7.929min (+ 0.103) 93.46 ug/ml m

response 4086517

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	78.50
77.00	60.90	68.52
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(28) Benzoic acid (T)

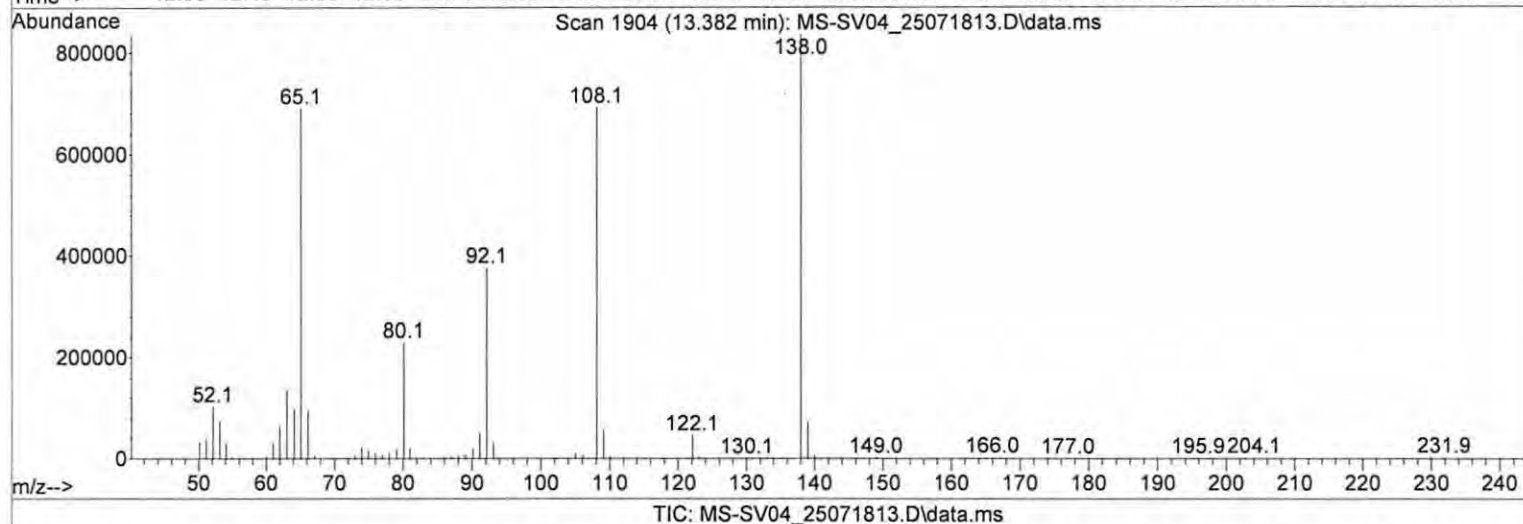
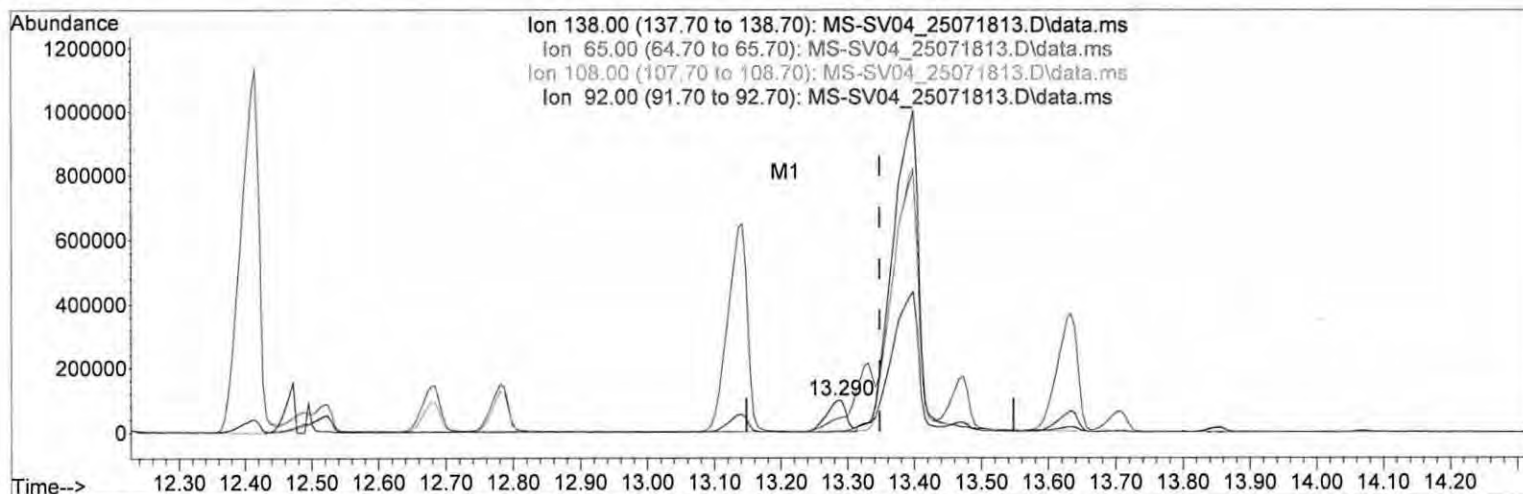
7.929min (+ 0.103) 79.27 ug/ml m

response 3433765

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	93.42#
77.00	60.90	81.55#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



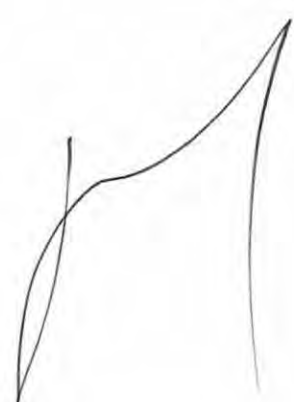
TIC: MS-SV04_25071813.D\data.ms

(59) 4-Nitroaniline (T)

13.290min (-0.058) 7.38 ug/ml

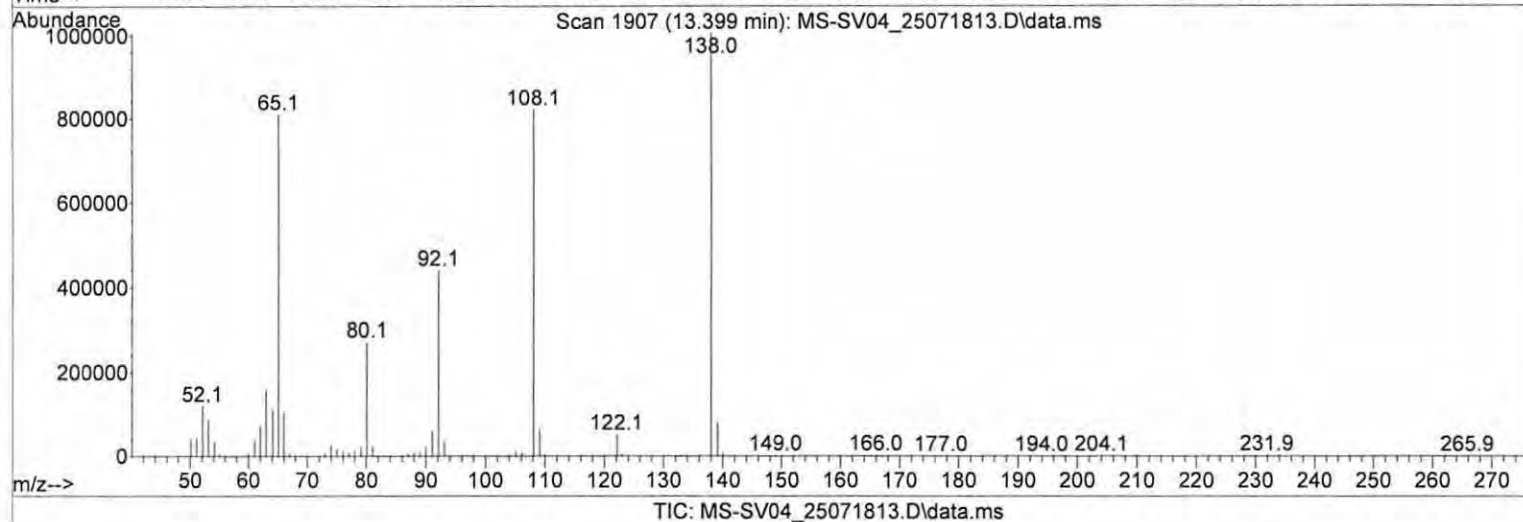
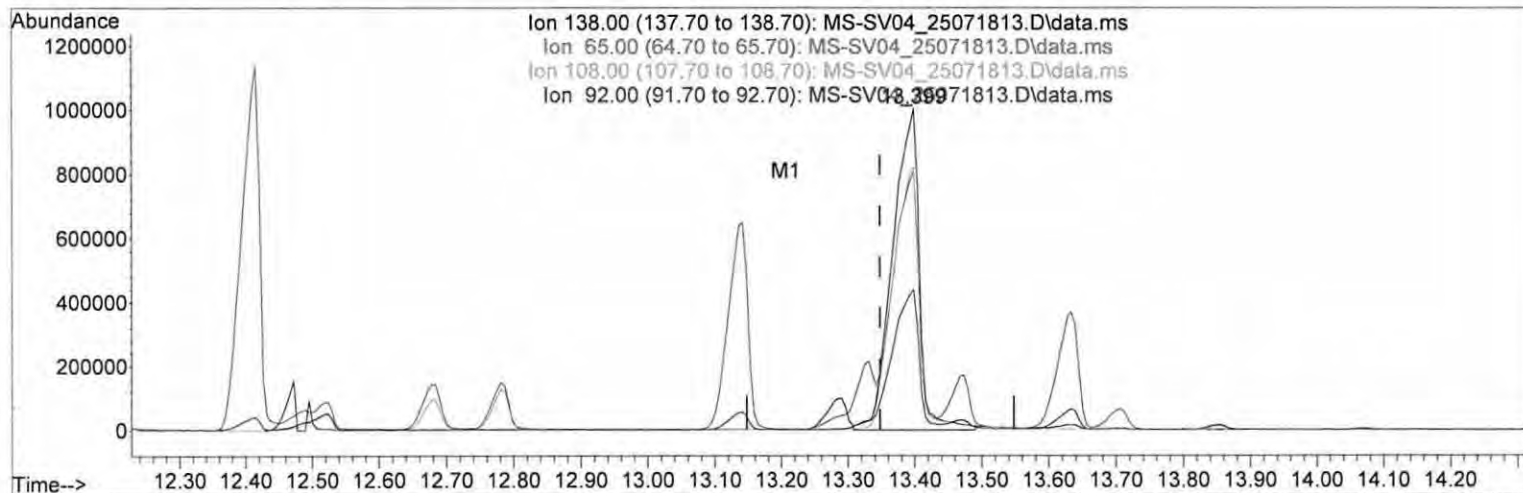
response 201118

Ion	Exp%	Act%
138.00	100.00	100.00
65.00	107.90	237.54#
108.00	68.00	2.66#
92.00	37.40	0.00#



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071813.D
Acq On : 18 Jul 2025 08:06 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : SVOC
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 09:19:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(59) 4-Nitroaniline (T)

13.399min (+ 0.051) 88.79 ug/ml m

response 2796283

Ion	Exp%	Act%
138.00	100.00	100.00
65.00	107.90	17.08#
108.00	68.00	0.19#
92.00	37.40	0.00#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071814.D
 Acq On : 18 Jul 2025 08:35 pm
 Operator : BMS
 Sample : SEQ-CAL8
 Misc : SVOC
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	3004468	40.00	ug/ml	0.00
21) Naphthalene-d8	8.272	136	10209173	40.00	ug/ml	0.01
36) Acenaphthene-d10	12.003	164	6297157	40.00	ug/ml	0.01
63) Phenanthrene-d10	15.327	188	10216996	40.00	ug/ml	# 0.01
73) Chrysene-d12	18.566	240	6889587	40.00	ug/ml	0.00
81) Perylene-d12	19.945	264	6838606	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.719	112	8786190	90.36	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	90.36%#		
5) Phenol-d5	5.772	99	8735325	83.33	ug/ml	0.02
Spiked Amount 100.000	Range 5 - 33		Recovery =	83.33%#		
19) Nitrobenzene-d5	7.042	82	7935908	91.87	ug/ml	0.02
Spiked Amount 50.000	Range 10 - 99		Recovery =	183.74%#		
39) 2-Fluorobiphenyl	10.509	172	16932173	75.18	ug/ml	0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	150.36%#		
64) 2,4,6-Tribromophenol	13.857	330	4173841	100.70	ug/ml	0.02
Spiked Amount 100.000	Range 20 - 86		Recovery =	100.70%#		
75) p-Terphenyl-d14	17.473	244	13310694	66.30	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	132.60%		
Target Compounds						
					Qvalue	
2) Pyridine	3.214	79	8340987m	91.86	ug/ml	
3) N-Nitrosodimethylamine	3.225	74	4608136m	89.66	ug/ml	
6) Aniline	5.835	93	11107498	88.80	ug/ml	91
7) Phenol	5.794	94	9026974	87.01	ug/ml#	92
8) Bis (2-chloroethyl) ether	5.903	93	6597824	74.32	ug/ml#	75
9) 2-Chlorophenol	5.960	128	8457326	88.72	ug/ml#	90
10) 1,3-Dichlorobenzene	6.149	146	9576892	84.82	ug/ml	97
11) 1,4-Dichlorobenzene	6.247	146	9390553	85.16	ug/ml	98
12) Benzyl alcohol	6.418	108	5201439	94.01	ug/ml	91
13) 1,2-Dichlorobenzene	6.452	146	9099881	84.72	ug/ml	96
14) o-Cresol	6.556	108	6784461	83.31	ug/ml	92
15) Bis (2-chloroisopropyl)...	6.601	121	2999533	85.15	ug/ml#	77
16) p-Cresol	6.807	107	7528124	87.34	ug/ml	94
17) N-nitrosodi-n-propyl a...	6.842	70	4642382	84.94	ug/ml#	91
18) Hexachloroethane	6.950	117	3733331	90.48	ug/ml	86
20) Nitrobenzene	7.076	77	6841612	82.17	ug/ml#	69
22) Isophorone	7.477	82	14059226	82.08	ug/ml#	94
23) 2-Nitrophenol	7.591	139	4502669	96.14	ug/ml#	87
24) 2,4-Dimethylphenol	7.671	122	6889286	83.80	ug/ml	90
25) Bis (2-chloroethoxy) m...	7.843	93	7793425	75.59	ug/ml#	96
26) 2,4-Dichlorophenol	8.020	162	7104556	92.49	ug/ml	98
27) 1,2,4-Trichlorobenzene	8.169	180	8247105	85.18	ug/ml	96
28) Benzoic acid	7.946	105	3850085m	93.92	ug/ml	
29) Naphthalene	8.312	128	16488129	61.81	ug/ml#	91
30) 4-Chloroaniline	8.421	127	8972884	86.54	ug/ml#	94
31) Hexachlorobutadiene	8.552	225	5504945	88.78	ug/ml	100
32) p-Chloro-m-cresol	9.399	107	6856531	94.05	ug/ml	93

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071814.D
 Acq On : 18 Jul 2025 08:35 pm
 Operator : BMS
 Sample : SEQ-CAL8
 Misc : SVOC
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatiles Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 09:19:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.703	142	13386743	79.65	ug/ml	96
34) 1-Methylnaphthalene	9.909	142	13654150	78.31	ug/ml#	94
35) Hexachlorocyclopentadiene	10.035	237	4921418	115.52	ug/ml#	99
37) 2,4,6-Trichlorophenol	10.309	196	5553686	104.30	ug/ml	99
38) 2,4,5-Trichlorophenol	10.384	198	5520662	104.58	ug/ml	99
40) 2-Chloronaphthalene	10.750	162	14179947	80.57	ug/ml#	96
41) 2-Nitroaniline	11.007	65	3572826	91.98	ug/ml#	74
42) 1,4-Dinitrobenzene	11.345	75	2707399	95.32	ug/ml#	40
43) 1,2-Dinitrobenzene	11.717	168	2135470	103.95	ug/ml#	77
44) Dimethyl phthalate	11.505	163	17015109	83.74	ug/ml#	96
45) Acenaphthylene	11.677	152	20498112	75.30	ug/ml	94
46) 2,6-Dinitrotoluene	11.602	165	4476246	99.44	ug/ml#	87
47) 1,3-Dinitrobenzene	11.528	168	3211062	96.21	ug/ml#	62
48) 3-Nitroaniline	11.974	138	4215954	105.57	ug/ml	86
49) Acenaphthene	12.089	154	13189012	79.43	ug/ml	99
50) 2,4-Dinitrophenol	12.203	184	2075393	132.85	ug/ml#	84
51) Dibenzofuran	12.489	168	18624583	79.19	ug/ml	94
52) 4-Nitrophenol	12.421	109	2396531	100.51	ug/ml#	75
53) 2,4-Dinitrotoluene	12.529	165	5635514	96.14	ug/ml#	77
54) 2,3,5,6-Tetrachlorophenol	12.684	232	5120691m	103.83	ug/ml	
55) 2,3,4,6-Tetrachlorophenol	12.787	232	5047743	98.38	ug/ml	95
56) Diethyl phthalate	13.147	149	16632104	84.30	ug/ml#	89
57) Fluorene	13.296	166	16089826	81.69	ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.330	204	8924961	86.26	ug/ml	99
59) 4-Nitroaniline	13.411	138	3146282m	104.79	ug/ml	
60) 4,6-Dinitro-2-methylph...	13.485	198	3047082m	117.60	ug/ml	
61) N-Nitrosodiphenylamine	13.639	169	14115316	86.04	ug/ml	93
62) Azobenzene	13.708	77	12370081	74.87	ug/ml#	86
65) 4-Bromophenyl phenyl e...	14.492	248	6063887	91.52	ug/ml	96
66) Hexachlorobenzene	14.584	284	7466107	91.83	ug/ml#	89
67) Pentachlorophenol	14.996	266	4121424	102.50	ug/ml	99
68) Phenanthrene	15.367	178	17004837	61.65	ug/ml#	89
69) Anthracene	15.453	178	16790492	62.45	ug/ml#	89
70) Carbazole	15.739	167	17274027	76.77	ug/ml	98
71) Di-n-butyl phthalate	16.294	149	15678750	54.94	ug/ml#	90
72) Fluoranthene	17.027	202	15243262	53.18	ug/ml#	85
74) Pyrene	17.290	202	15238759	59.68	ug/ml#	82
76) Butyl benzyl phthalate	17.988	149	9629774	92.23	ug/ml#	87
77) Bis (2-ethylhexyl) adi...	18.057	129	7994436	92.38	ug/ml#	78
78) Benzo (a) anthracene	18.549	228	14069241	68.00	ug/ml#	86
79) Chrysene	18.589	228	12243825	60.15	ug/ml#	82
80) Bis (2-ethylhexyl) pht...	18.532	149	11608373	81.89	ug/ml#	83
82) Di-n-octyl phthalate	19.110	149	14928831	67.70	ug/ml#	68
83) Benzo (b) fluoranthene	19.550	252	17015185	94.71	ug/ml#	89
84) Benzo (k) fluoranthene	19.585	252	11924533	60.72	ug/ml#	86
85) Benzo (a) pyrene	19.894	252	15158802	89.45	ug/ml	92
86) Indeno (1,2,3-cd) pyrene	21.255	276	19622593	100.26	ug/ml#	83
87) Dibenz (a,h) anthracene	21.267	278	14779305	97.54	ug/ml#	92
88) Benzo (g,h,i) perylene	21.650	276	15861483	99.98	ug/ml#	87

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Abundance

TIC: MS-SV04_25071814.D\data.ms

Time-->

3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00

4.5e+07

4e+07

3.5e+07

3e+07

2.5e+07

2e+07

1.5e+07

1e+07

5000000

0

N-Nitrosodiphenylamine, T

2-Fluorophenol, S

Anthracene, T

Bis (2-chlorophenyl) ether, T

1,4-Dichlorobenzene, T

1,3-Dichlorobenzene, T

Benzyl alcohol, T

Dichlorobenzene, T

Bis (2-chloropropyl) ether, T

Nitrosodipropylamine, MP

Hexachloroethane, T

Nitrobenzene, T

Isophthalic acid, T

2-Nitrophenol, T

Bis (2-chloroethoxy) methane, T

Benzoic acid, T

Naphthalene, T

4-Chloroaniline, T

Hexachlorobutadiene, P

p-Chloro-m-cresol, M

2-Methylnaphthalene, T

1-Methylnaphthalene, T

Hexachlorocyclopentadiene, T

2,4,5-Trichlorophenol, T

2-Fluorobiphenyl, S

2-Chloronaphthalene, T

2-Nitroaniline, T

1,4-Dinitrobenzene, T

1,3-Dinitrobenzene, T

2,6-Dinitrotoluene, T

Acenaphthylene, T

3-Nitroaniline, T

Acenaphthene, M

2,4-Dinitrophenol, T

4-Nitrophenol, T

2,3,5,6-Tetrachlorophenol, T

Diethyl phthalate, T

4-Chlorophenyl ether, T

Azobenzene, T

N-Nitrosodiphenylamine, T

2,4,6-Tribromophenol, S

4-Bromophenyl ether, T

Hexachlorobenzene, T

Pentachlorophenol, M

Phenanthrene-d10, T

Phenanthrene, T

Carbazole, T

Di-n-butyl phthalate, T

Fluoranthene, T

Pyrene, M

p-Terphenyl-d14, S

Bis (2-ethylhexyl) sebacate, T

Chrysene, T

Di-n-octyl phthalate, T

Benzo (b) fluoranthene, T

Benzo (a) pyrene, T

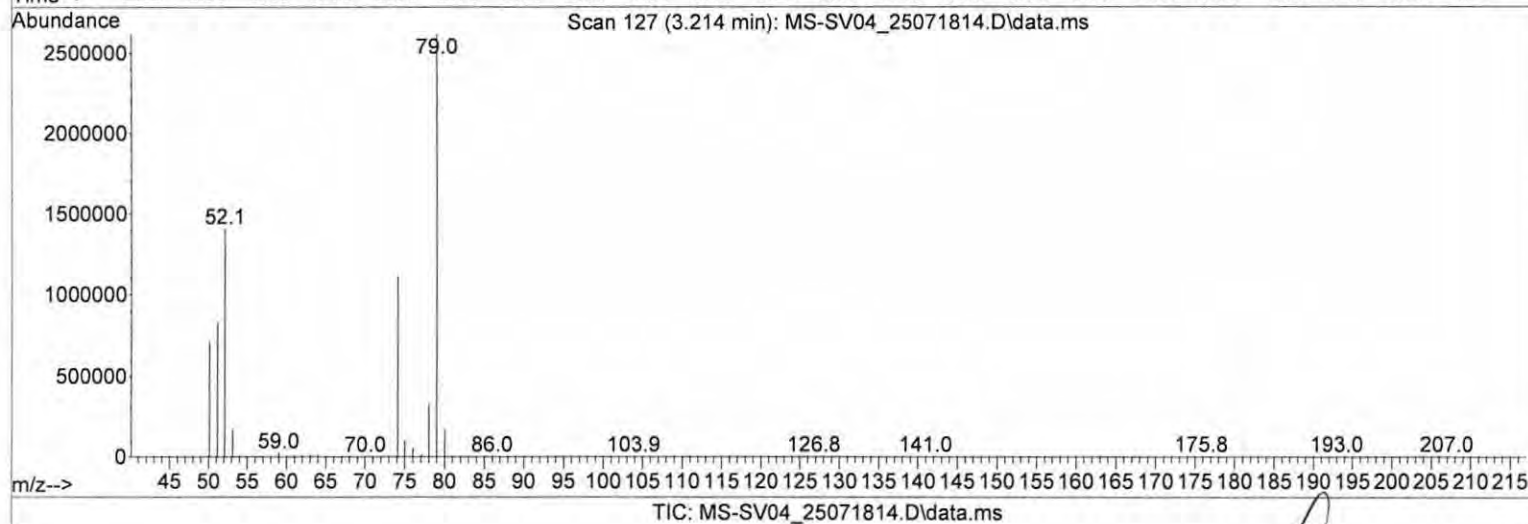
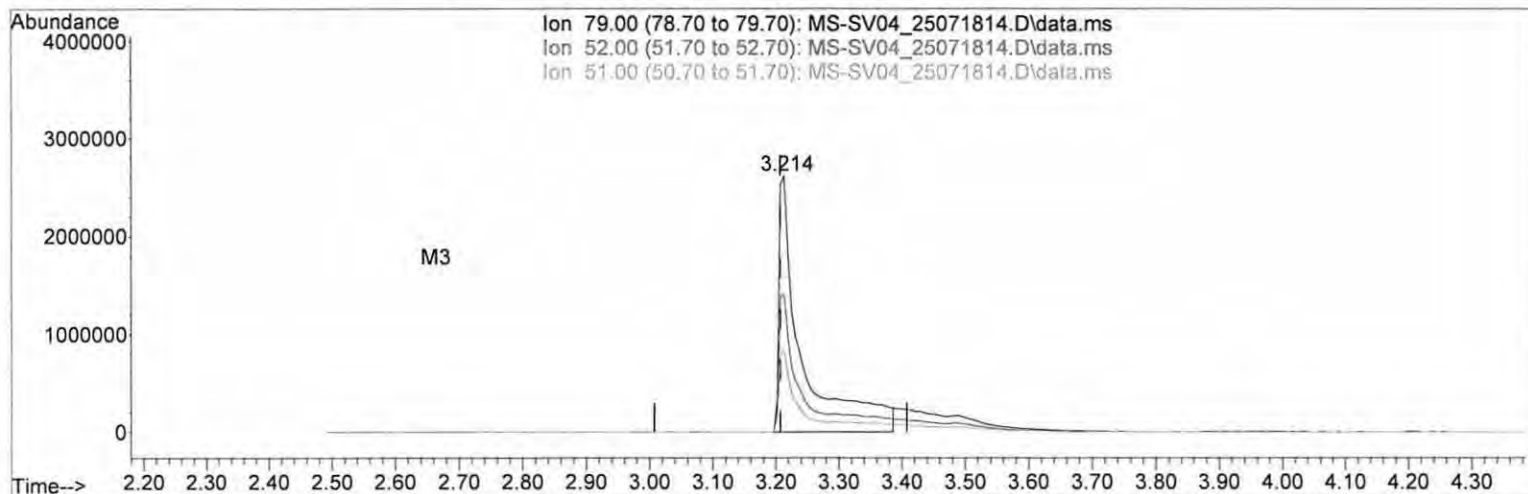
Pyrene-d12, T

Indeno (1,2,3-cd)pyrene, Anthracene, T

Benzo (g,h,i) perylene, T

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(2) Pyridine (T)

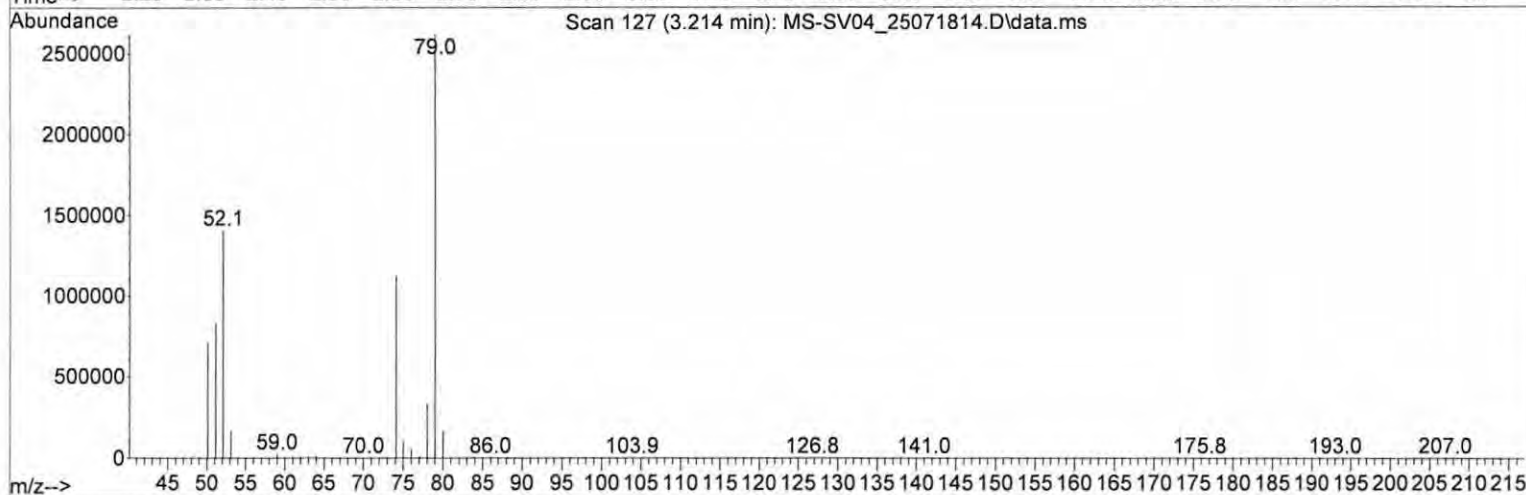
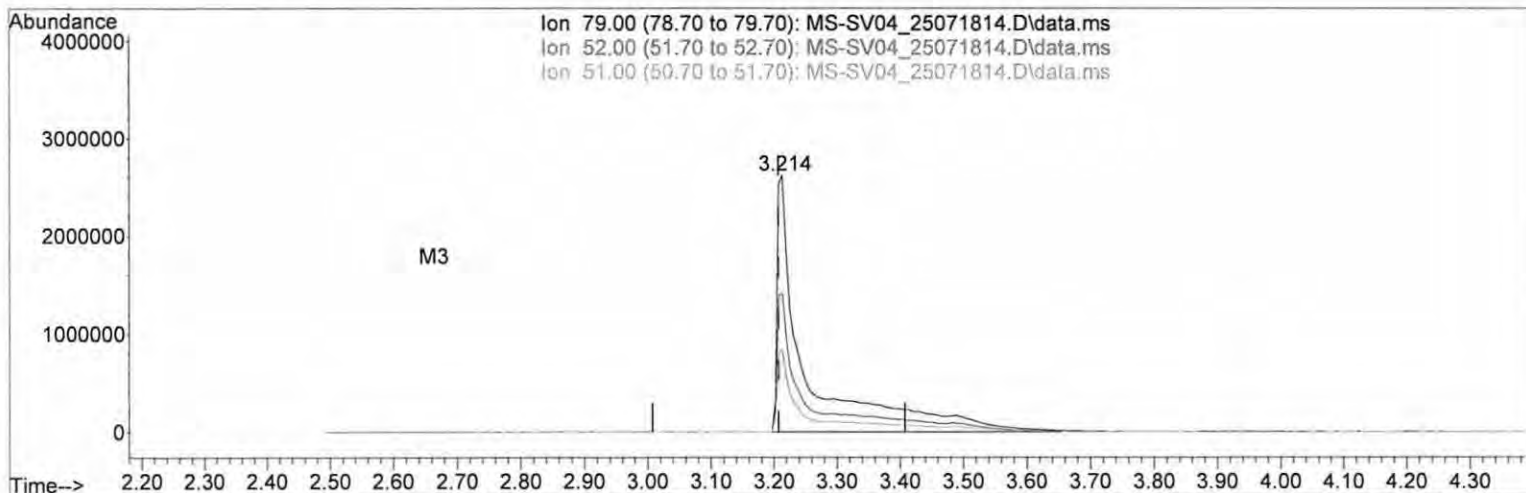
3.214min (+ 0.006) 72.40 ug/ml

response 6574002

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.29#
51.00	62.40	22.47#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(2) Pyridine (T)

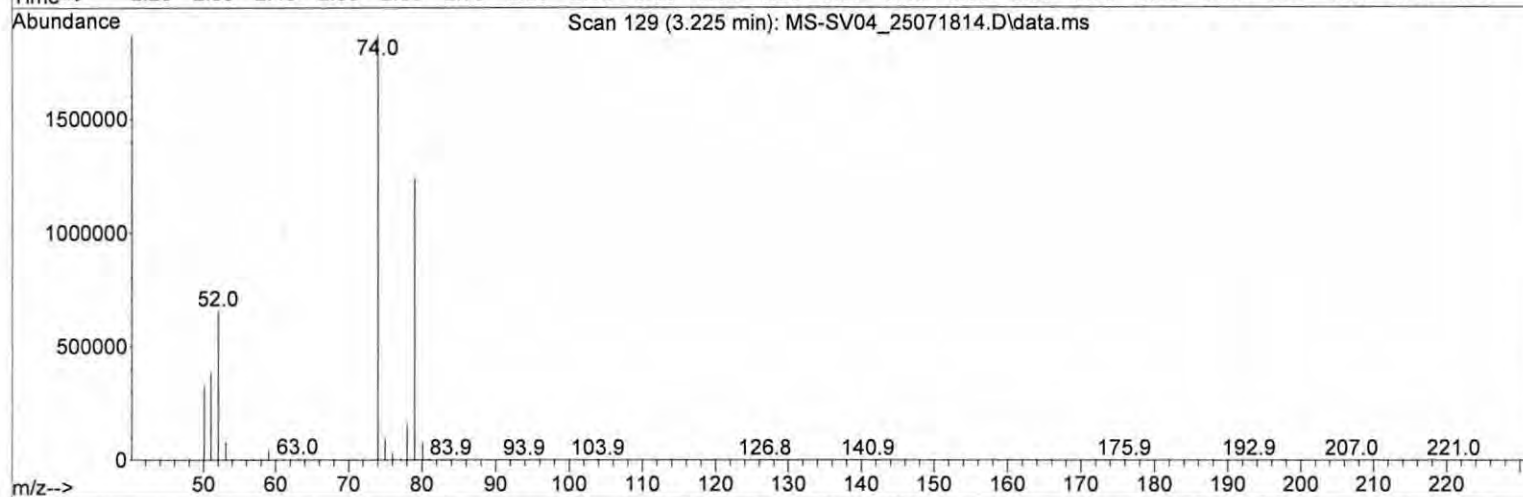
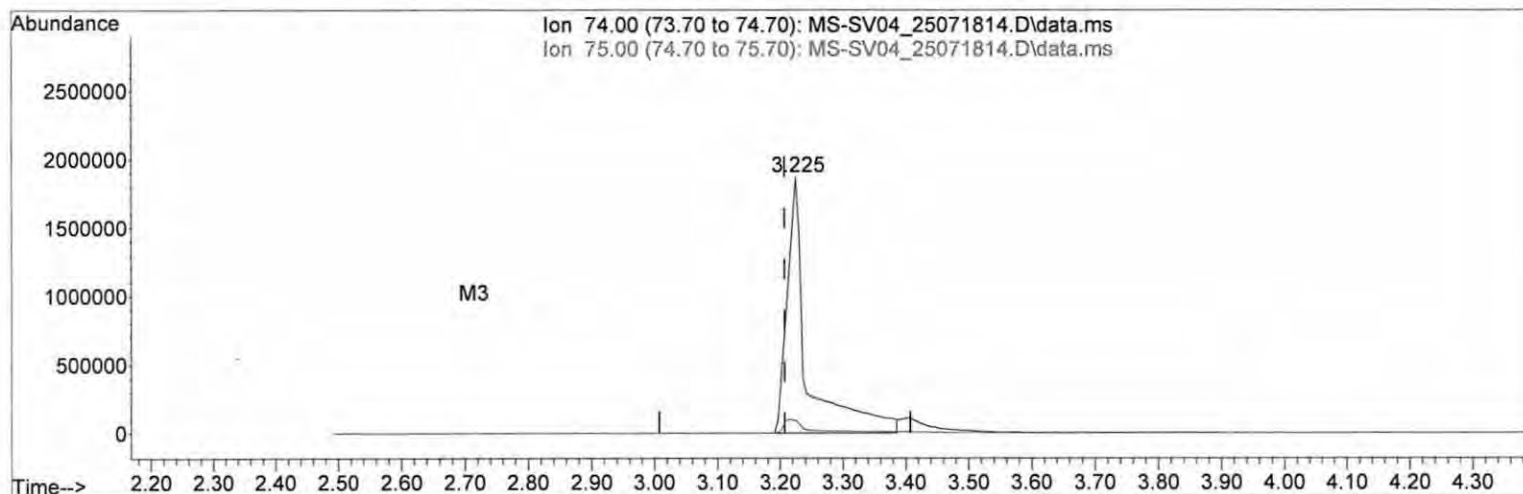
3.214min (+ 0.006) 91.86 ug/ml m

response 8340987

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	42.79#
51.00	62.40	17.71#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(3) N-Nitrosodimethylamine (T)

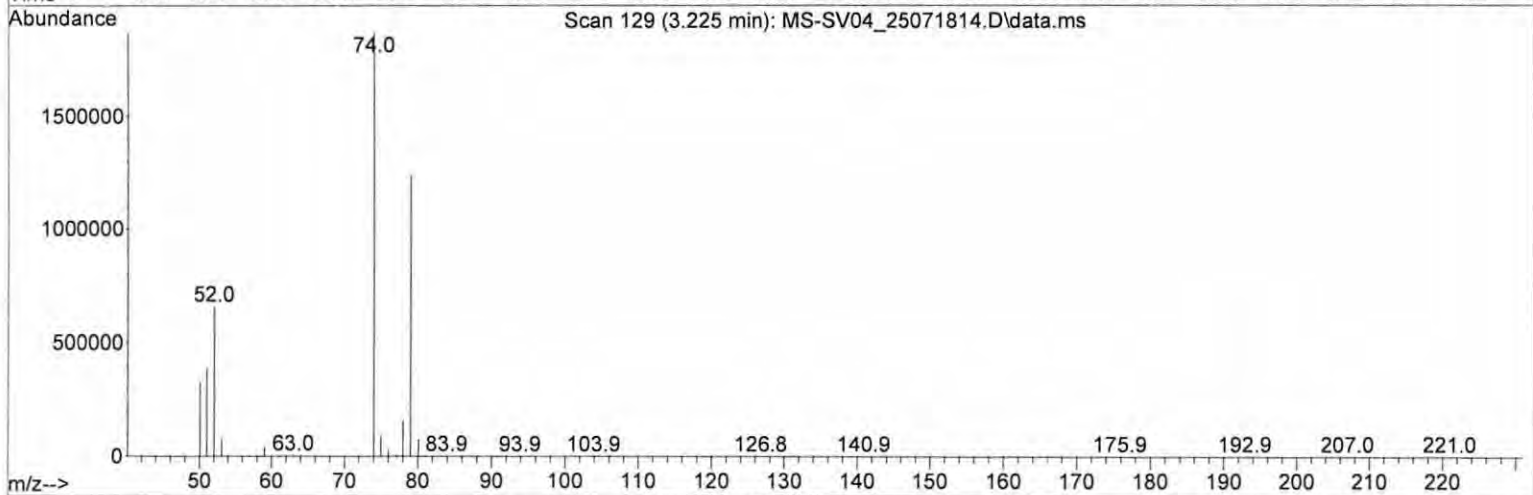
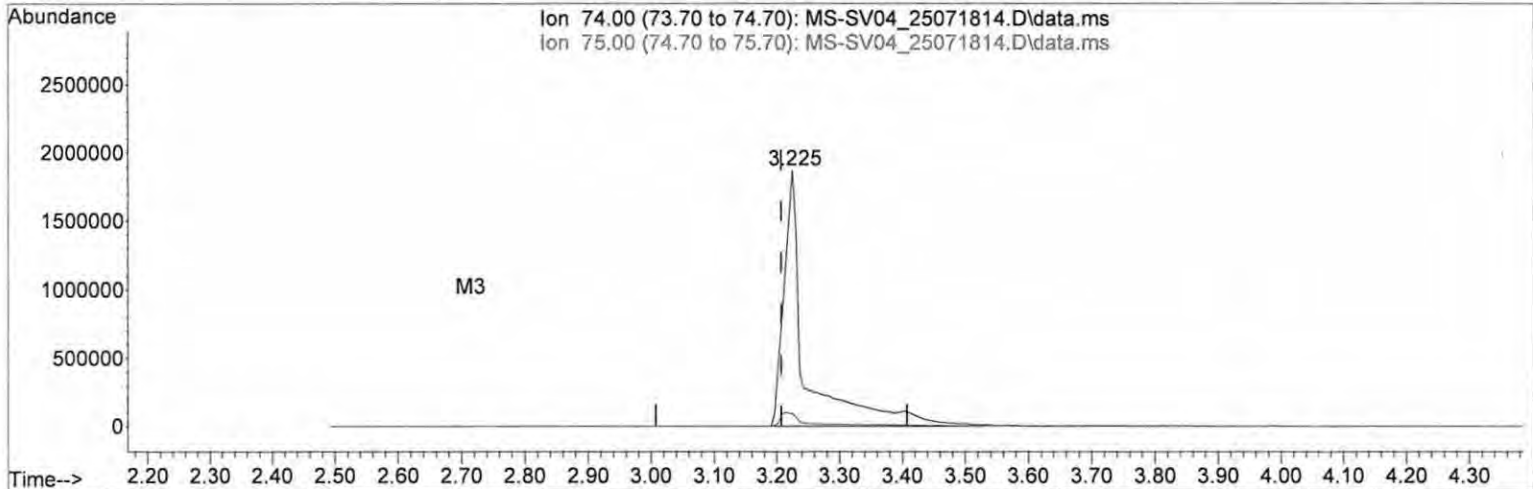
3.225min (+ 0.017) 82.00 ug/ml

response 4214588

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	6.91
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(3) N-Nitrosodimethylamine (T)

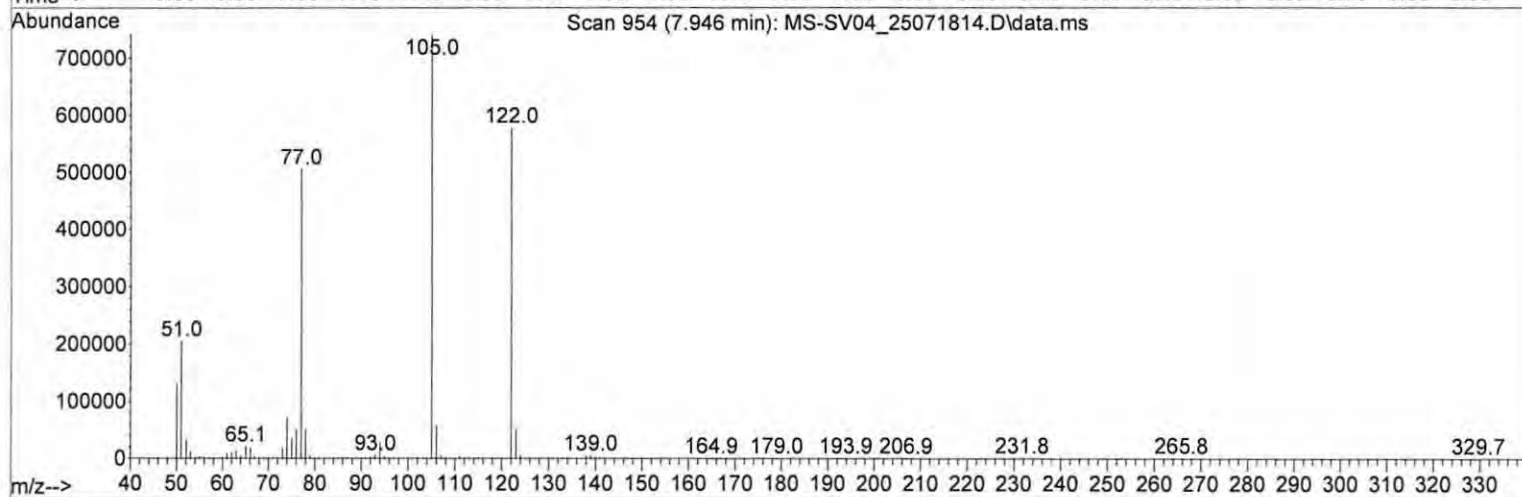
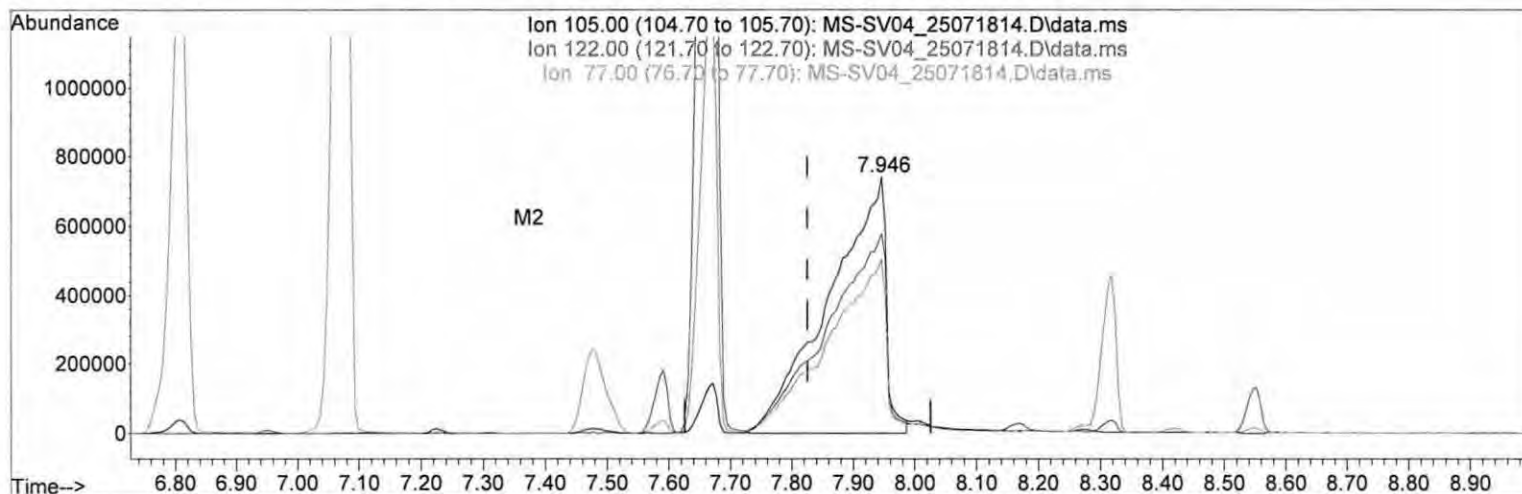
3.225min (+ 0.017) 89.66 ug/ml m

response 4608136

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	6.32
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(28) Benzoic acid (T)

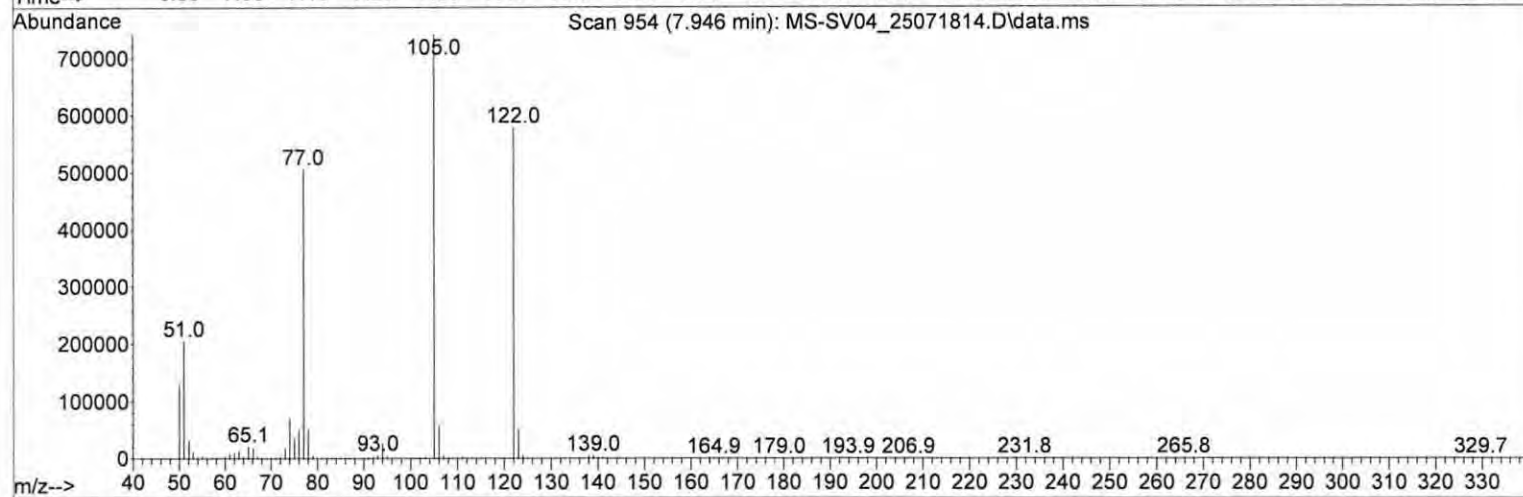
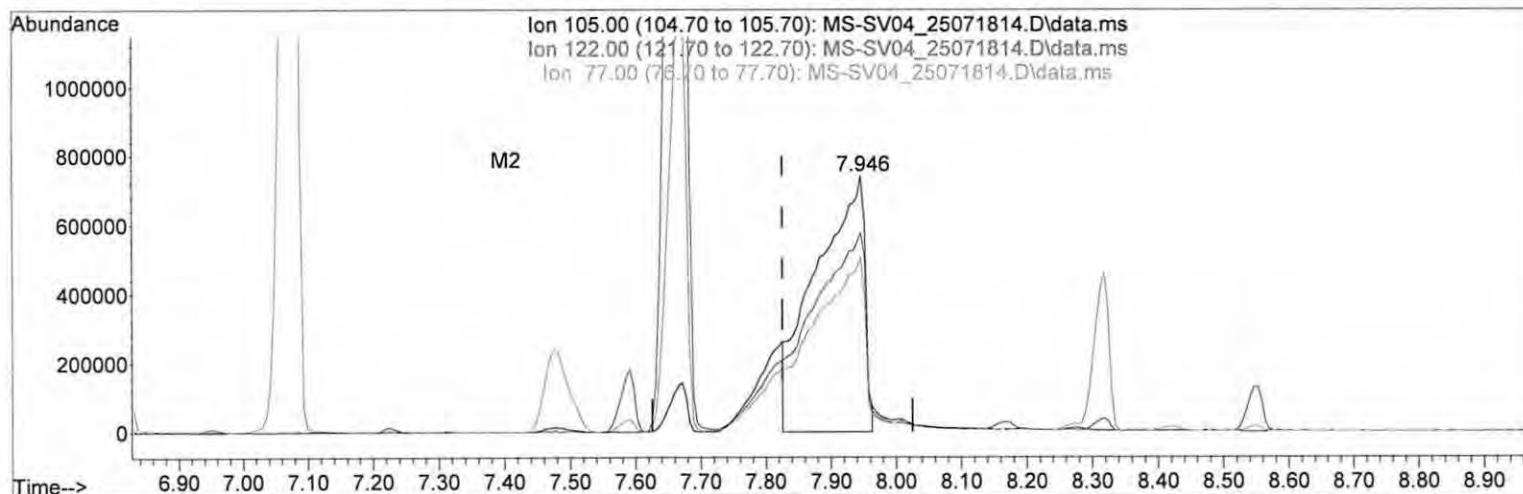
7.946min (+ 0.120) 112.74 ug/ml m

response 4661296

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	79.11
77.00	60.90	68.39
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(28) Benzoic acid (T)

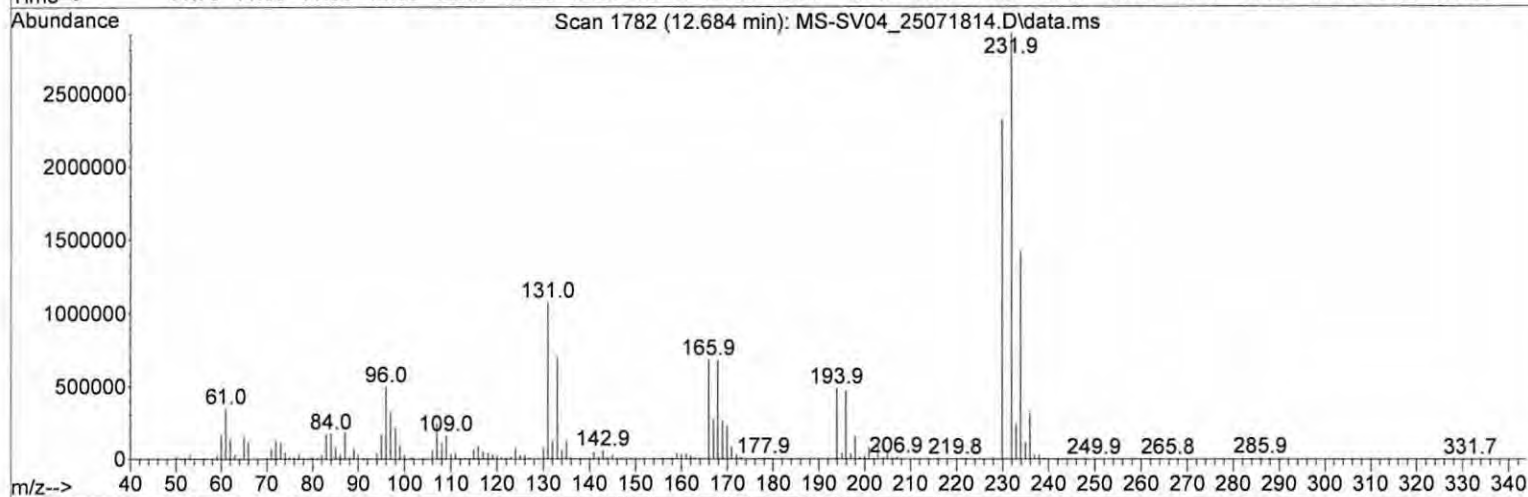
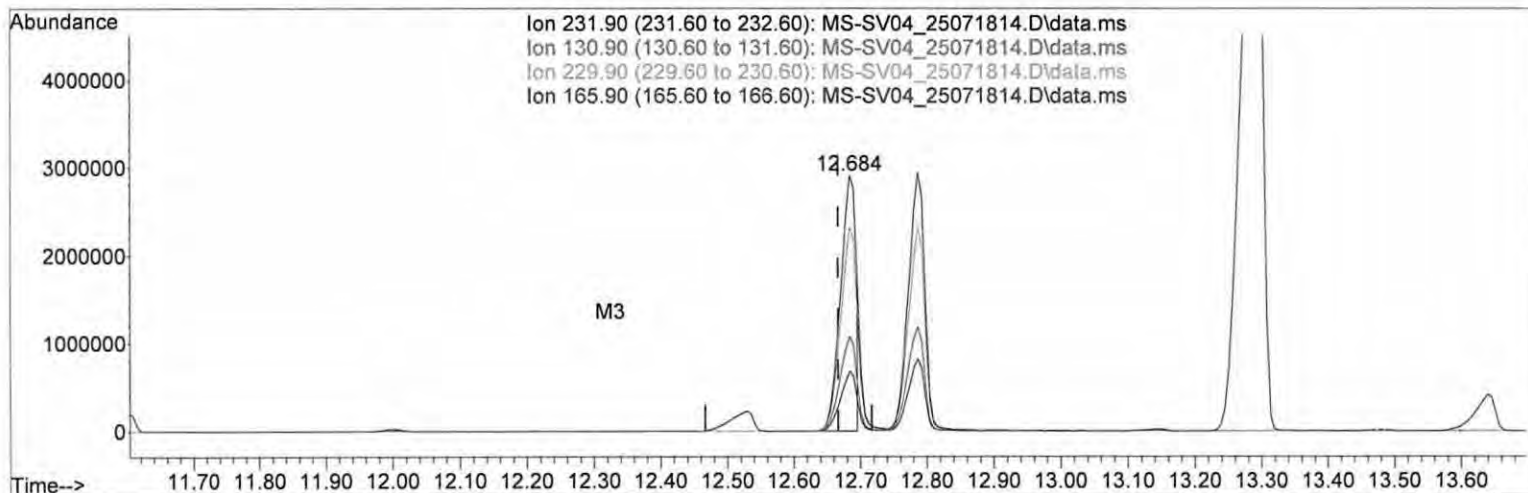
7.946min (+ 0.120) 93.92 ug/ml m

response 3850085

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	66.70	95.77#
77.00	60.90	82.81#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(54) 2,3,5,6-Tetrachlorophenol (T)

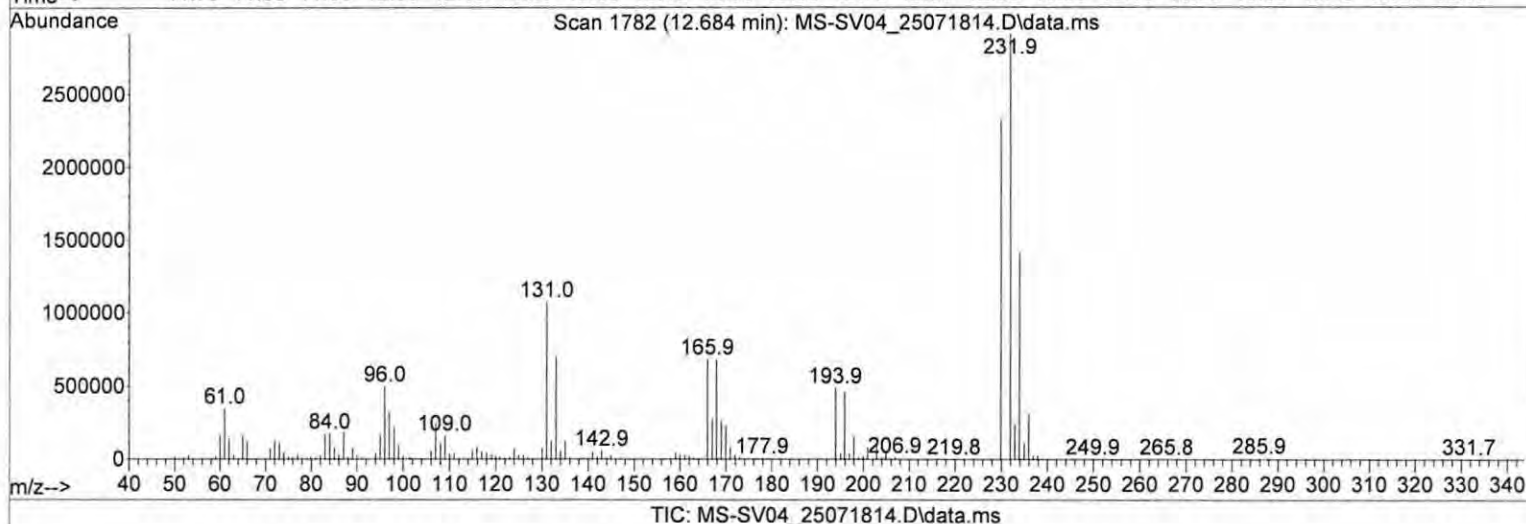
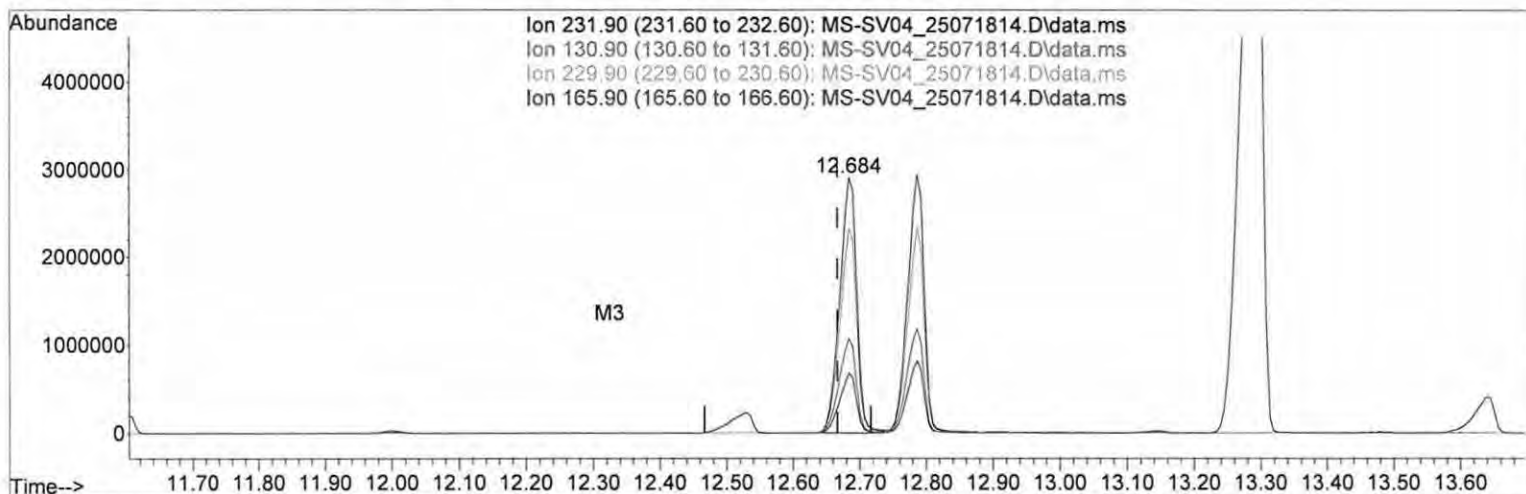
12.684min (+ 0.017) 96.43 ug/ml

response 4747980

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	37.78
229.90	79.50	79.56
165.90	23.50	23.32

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(54) 2,3,5,6-Tetrachlorophenol (T)

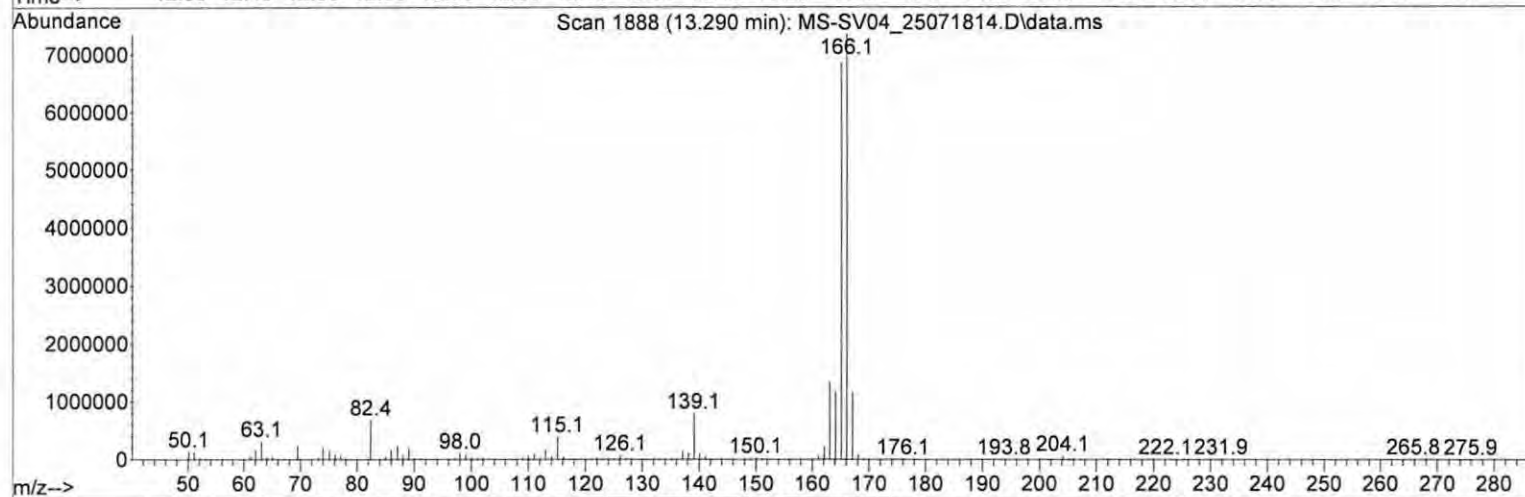
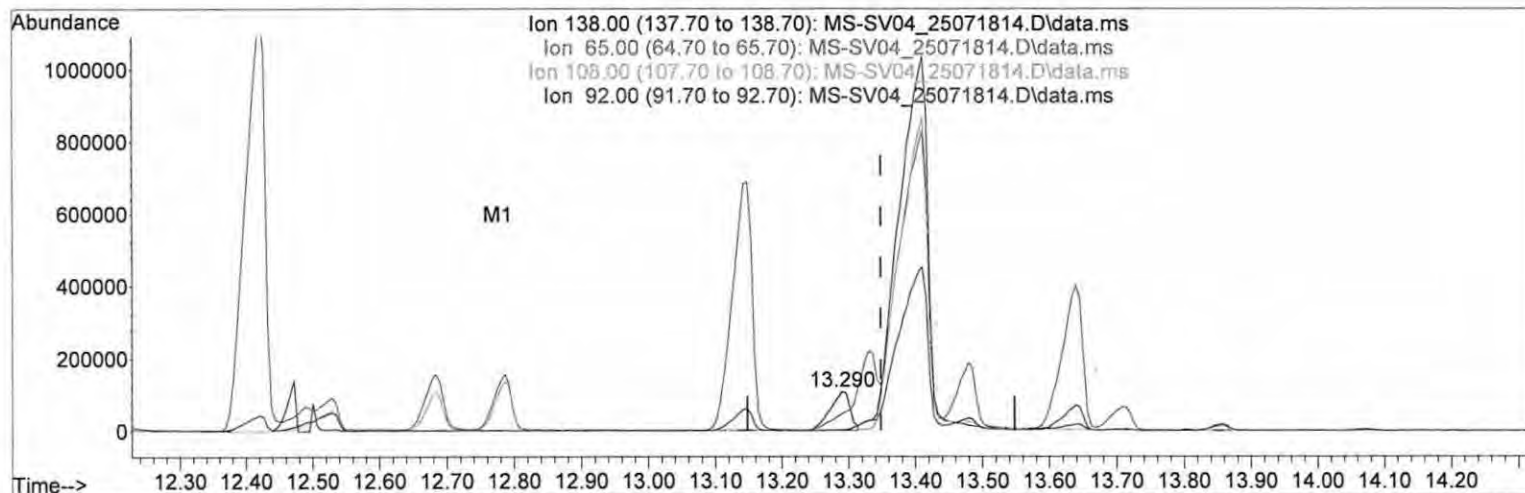
12.684min (+ 0.017) 103.83 ug/ml m

response 5120691

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	35.03
229.90	79.50	73.77
165.90	23.50	21.63

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(59) 4-Nitroaniline (T)

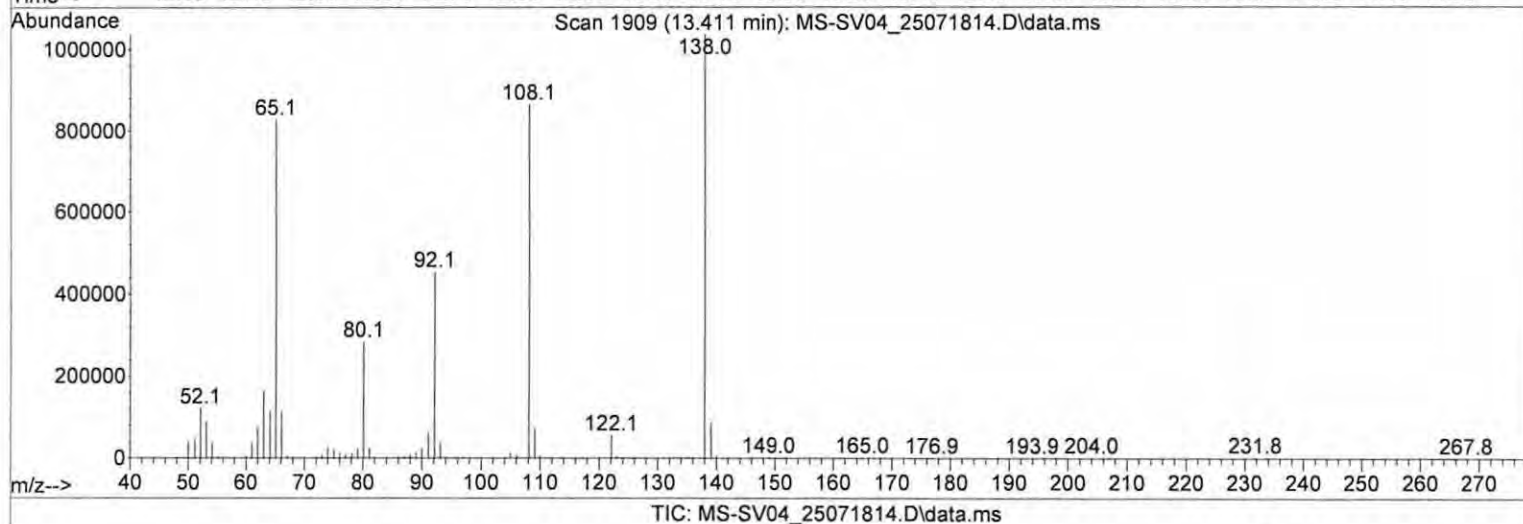
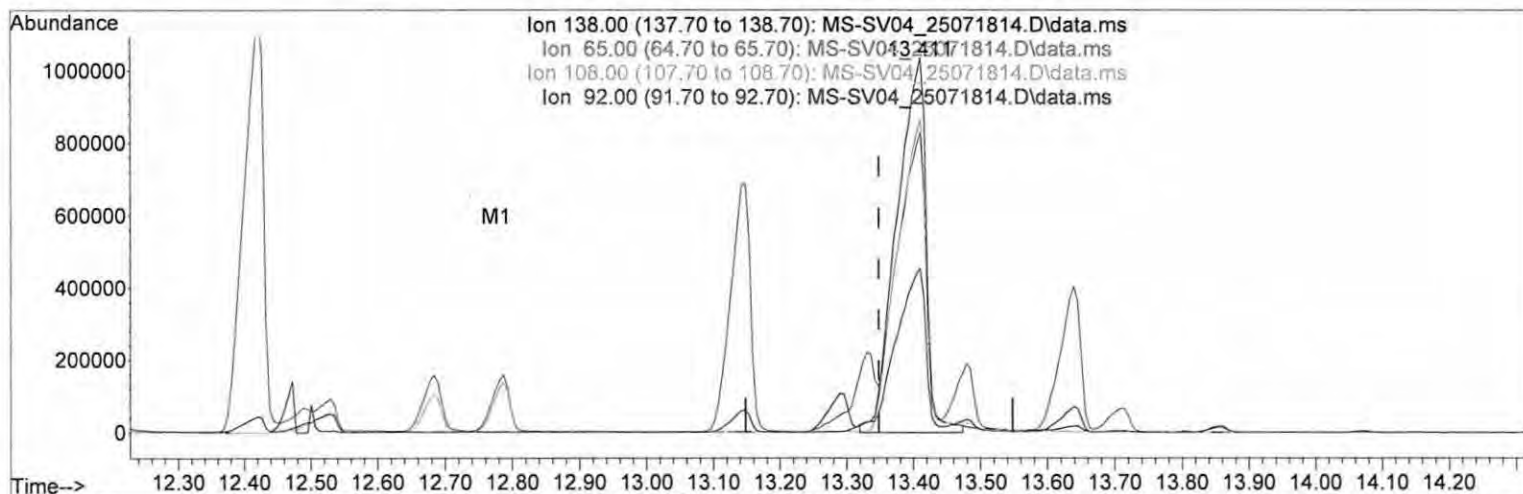
13.290min (-0.058) 8.36 ug/ml

response 220945

Ion	Exp%	Act%
138.00	100.00	100.00
65.00	107.90	236.13#
108.00	68.00	3.45#
92.00	37.40	0.00#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



(59) 4-Nitroaniline (T)

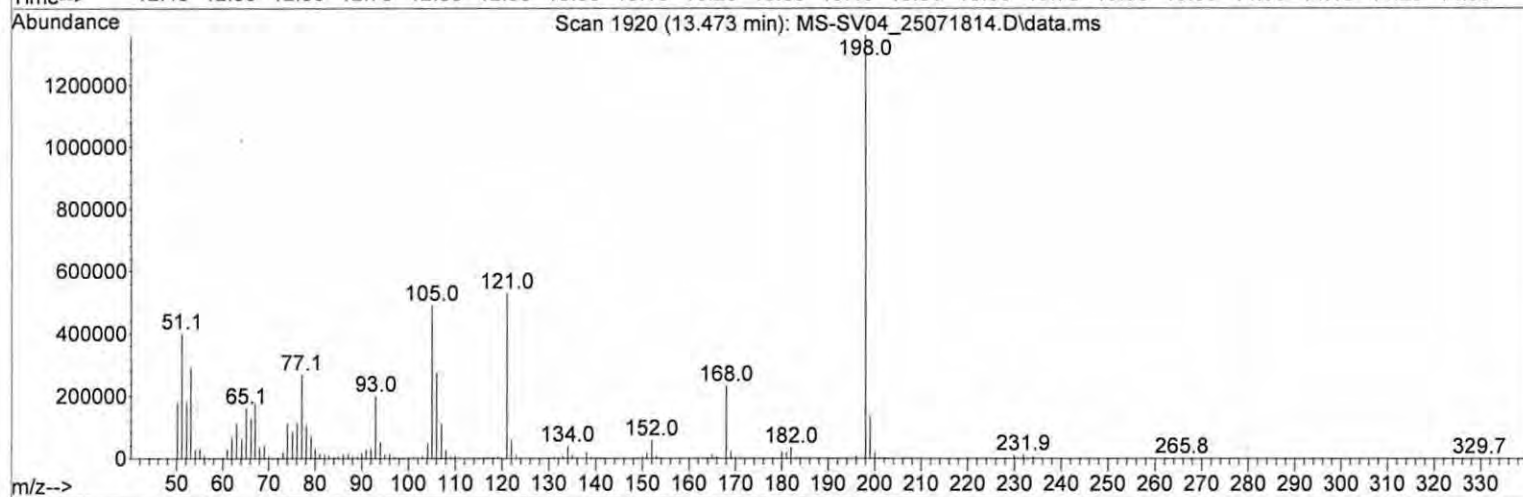
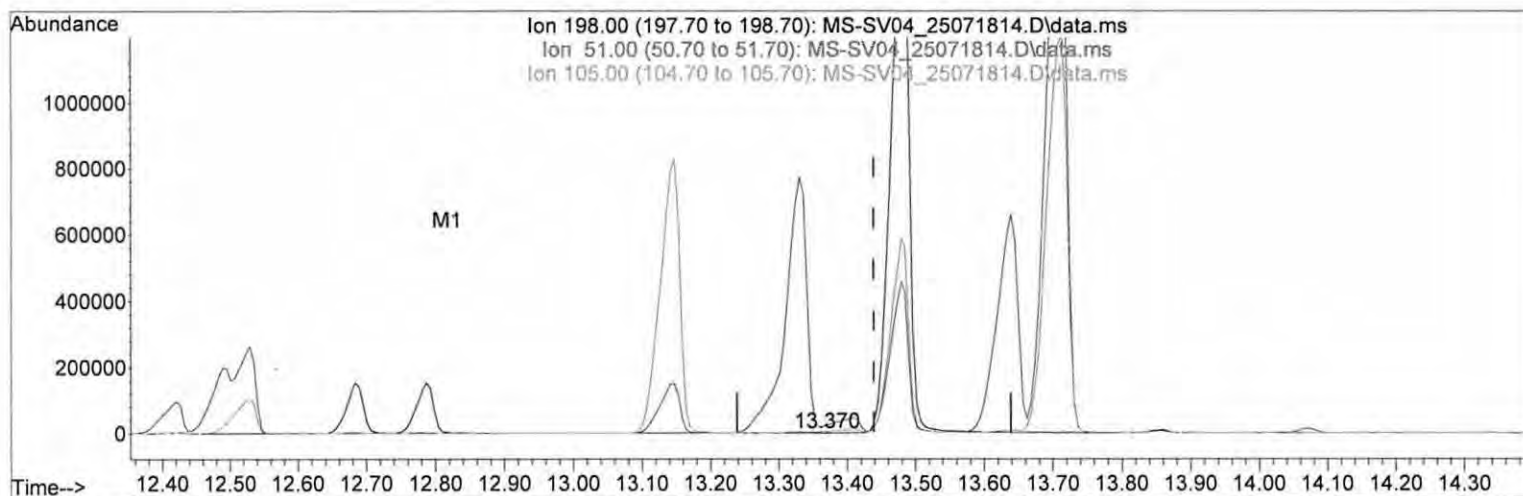
13.411min (+ 0.063) 104.79 ug/ml m

response 3146282

Ion	Exp%	Act%
138.00	100.00	100.00
65.00	107.90	16.58#
108.00	68.00	0.24#
92.00	37.40	0.00#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(60) 4,6-Dinitro-2-methylphenol (T)

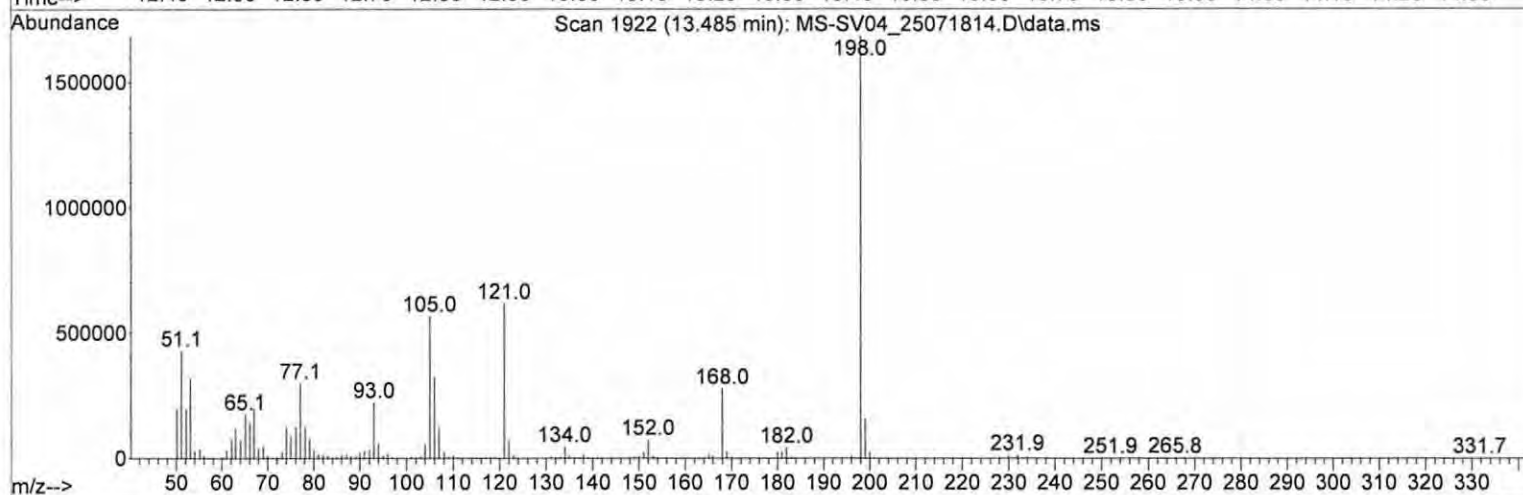
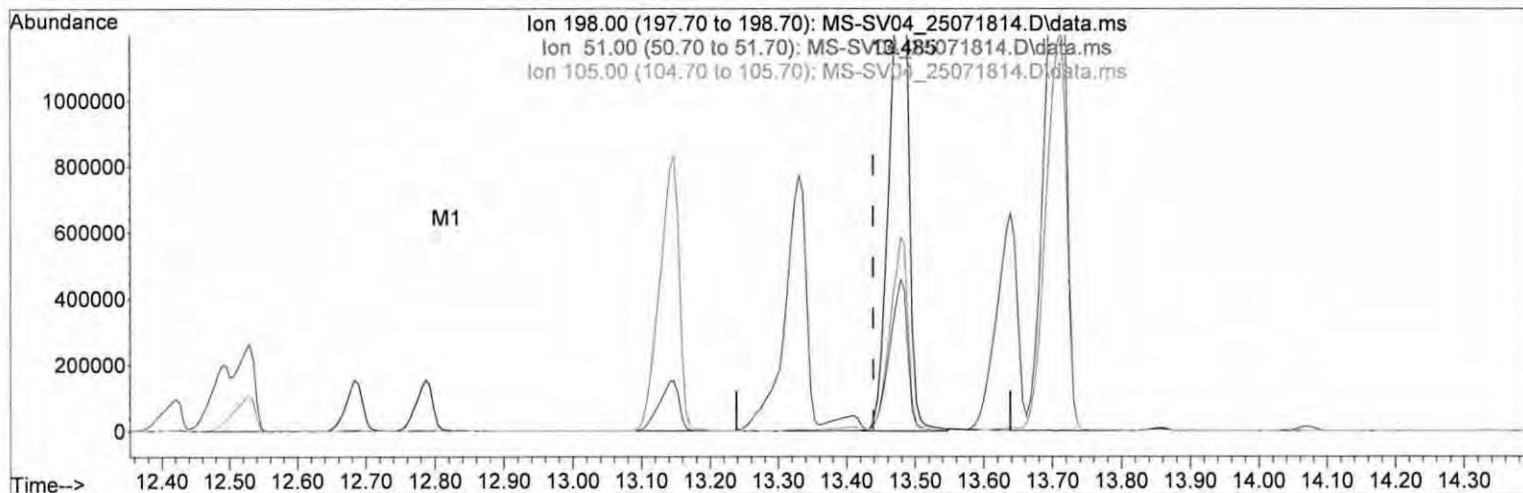
13.370min (-0.069) 5.11 ug/ml

response 261

Ion	Exp%	Act%
198.00	100.00	100.00
51.00	65.20	38507.66#
105.00	38.30	10786.21#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071814.D
Acq On : 18 Jul 2025 08:35 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : SVOC
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 09:19:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 09:19:25 2025
Response via : Initial Calibration



TIC: MS-SV04_25071814.D\data.ms

(60) 4,6-Dinitro-2-methylphenol (T)

13.485min (+ 0.046) 117.60 ug/ml m

response 3047082

Ion	Exp%	Act%
198.00	100.00	100.00
51.00	65.20	3.30#
105.00	38.30	0.92#
0.00	0.00	0.00

Method Path : C:\GCMS\1\methods\
 Method File : MS-SV04_250718AP.M
 Title : Semivolatile Appendix IX Compounds Calibration
 Last Update : Wed Jul 23 14:07:47 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =MS-SV04_25071816.D 5 =MS-SV04_25071817.D 10 =MS-SV04_25071818.D 20 =MS-SV04_25071819.D 40 =MS-SV04_25071820.D
 60 =MS-SV04_25071821.D
 80 =MS-SV04_25071822.D 100 =MS-SV04_25071823.D

Compound	2.5	5	10	20	40	60	80	100	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) T 1,4-Dioxane	0.365	0.368	0.352	0.314	0.300	0.298	0.283	0.388	0.333	11.79
3) T Ethyl methacry...	0.594	0.601	0.612	0.591	0.564	0.541	0.548	0.684	0.592	7.64
4) T 2-Picoline	0.866	0.897	0.808	0.783	0.804	0.729	0.738	0.858	0.810	7.48
5) T N-Nitrosomethy...	0.331	0.349	0.357	0.353	0.341	0.349	0.333	0.416	0.354	7.54
6) T Methyl methane...	0.440	0.440	0.441	0.421	0.411	0.376	0.344	0.405	0.410	8.46
7) T N-Nitrosodieth...	0.371	0.375	0.390	0.377	0.364	0.353	0.335	0.435	0.375	7.88
8) T Ethyl methanes...	0.541	0.537	0.537	0.515	0.481	0.471	0.444	0.589	0.514	9.10
9) T Benzaldehyde	0.649	0.659	0.658	0.622	0.581	0.522	0.477	0.560	0.591	11.49
10) T Pentachloroethane	0.350	0.360	0.359	0.354	0.326	0.335	0.319	0.397	0.350	6.95
11) T Acetophenone	1.102	1.098	1.087	1.025	0.936	0.908	0.846	1.123	1.016	10.37
12) T N-Nitrosomorph...	0.357	0.361	0.359	0.340	0.319	0.303	0.277	0.368	0.336	9.82
13) T N-Nitrosopyrro...	0.315	0.329	0.350	0.350	0.354	0.338	0.315	0.419	0.346	9.56
14) T o-Toluidine	1.183	1.187	1.167	1.089	0.991	0.906	0.824	1.058	1.051	12.82
15) T N-Nitrosopiper...	0.372	0.375	0.387	0.377	0.365	0.359	0.339	0.445	0.377	8.22
16) T Phentermine	0.086	0.305	0.791	1.024	1.300	1.206	1.126		0.834	56.22
17) I Naphthalene-d8	-----ISTD-----									
18) T alpha Terpineol	0.189	0.193	0.196	0.191	0.166	0.170	0.160	0.197	0.183	8.11
19) T 2,6-Dichloroph...	0.262	0.266	0.279	0.279	0.275	0.271	0.263	0.329	0.278	7.84
20) T Hexachloropropene	0.131	0.131	0.162	0.172	0.194	0.206	0.207		0.172	18.93
21) T Caprolactam	0.062	0.071	0.089	0.097	0.126	0.120	0.114		0.097	25.53
22) T N-Nitrosodibut...	0.232	0.238	0.242	0.231	0.266	0.257	0.247	0.302	0.252	9.35
23) T 1,4-Phenylened...	0.036	0.126	0.208	0.244	0.244	0.233	0.218	0.229	0.192	38.49
24) T Isosafrole	0.317	0.319	0.323	0.315	0.294	0.292	0.279	0.342	0.310	6.55
25) T 1,2,4,5-Tetrac...	0.421	0.420	0.418	0.403	0.379	0.379	0.359	0.438	0.402	6.77
26) I Acenaphthene-d10	-----ISTD-----									
27) T Safrole	0.485	0.504	0.516	0.502	0.477	0.475	0.457	0.570	0.498	6.94
28) T Biphenyl	1.629	1.631	1.555	1.451	1.290	1.212	1.124	1.428	1.415	13.49
29) T 1-Chloronaphth...	1.240	1.238	1.198	1.152	1.048	1.013	0.950	1.196	1.129	9.81
30) T Diphenyl ether	0.902	0.911	0.884	0.840	0.761	0.746	0.701	0.882	0.828	9.76
31) T 1,4-Naphthoqui...	0.291	0.334	0.399	0.421	0.372	0.301	0.264	0.320	0.338	16.29
32) T Pentachloroben...	0.610	0.610	0.604	0.591	0.563	0.560	0.541	0.681	0.595	7.28
33) T 1-Naphthylamine	0.779	0.889	0.972	0.903	0.903	0.821	0.779	0.953	0.875	8.49

Method Path : C:\GCMS\1\methods\

Method File : MS-SV04_250718AP.M

Title : Semivolatile Appendix IX Compounds Calibration

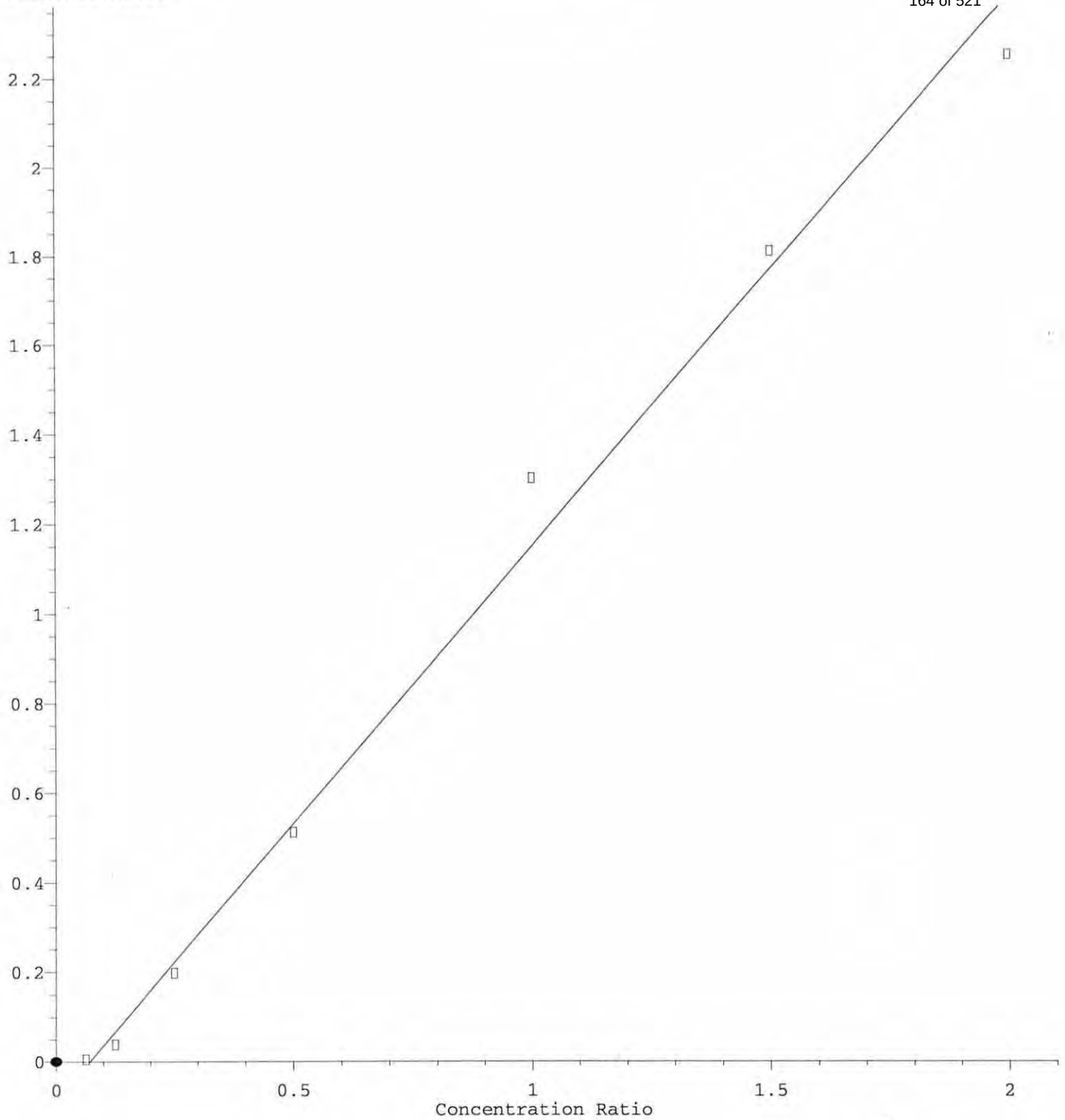
34)	T	2-Naphthylamine	0.390	0.398	0.398	0.379	0.402	0.357	0.338	0.422	0.386	6.95
35)	T	5-Nitro-o-tolu...	0.165	0.205	0.270	0.296	0.310	0.305	0.299		0.264	21.53
36)	I	Phenanthrene-d10	-----ISTD-----									
37)	T	Diallate	0.263	0.274	0.305	0.271	0.249	0.232	0.214	0.269	0.260	10.73
38)	T	1,3,5-Trinitro...	0.046	0.053	0.097	0.118	0.140	0.137	0.134		0.104	38.41
39)	T	Phenacetin	0.180	0.216	0.304	0.301	0.321	0.335	0.336		0.285	21.63
40)	T	Atrazine	0.248	0.261	0.295	0.273	0.254	0.251	0.237	0.296	0.264	8.17
41)	T	4-Aminobiphenyl	0.739	0.754	0.821	0.676	0.653	0.551	0.513	0.628	0.667	15.56
42)	T	Pentachloronit...	0.105	0.112	0.133	0.122	0.118	0.116	0.110	0.137	0.119	9.32
43)	T	Pronamide	0.338	0.371	0.435	0.398	0.381	0.367	0.352	0.442	0.386	9.68
44)	T	4-Nitroquinoli...				0.030	0.054	0.071	0.075	0.088	0.063	35.66
45)	T	Methapyrilene		0.292	0.406	0.382	0.357	0.282			0.344	15.93
46)	T	Isodrin	0.178	0.185	0.195	0.169	0.154	0.144	0.134	0.167	0.166	12.41
47)	T	3,3'-Dimethylb...	0.355	0.429	0.588	0.501	0.475	0.369	0.368	0.363	0.431	19.56
48)	I	Chrysene-d12	-----ISTD-----									
49)	T	Aramite A	0.024	0.032	0.045	0.057	0.059	0.067	0.065		0.050	33.44
50)	T	Aramite B	0.070	0.088	0.112	0.132	0.130	0.139	0.129		0.114	22.64
51)	T	p-Dimethylamin...	0.309	0.355	0.389	0.389	0.354	0.342	0.312	0.400	0.356	9.73
52)	T	Chlorobenzilate	0.353	0.416	0.474	0.494	0.448	0.459	0.412	0.546	0.450	12.95
53)	T	Kepone	0.101	0.118	0.124	0.125	0.105	0.090	0.072	0.098	0.104	17.42
54)	T	2-Acetylaminof...	0.148	0.182	0.303	0.392	0.452	0.468	0.446	0.492	0.360	37.18
55)	I	Perylene-d12	-----ISTD-----									
56)	T	7,12-Dimethylb...	0.442	0.495	0.568	0.585	0.579	0.573	0.542	0.749	0.566	15.64
57)	T	3-Methylcholan...	0.459	0.487	0.534	0.562	0.564	0.573	0.562	0.731	0.559	14.46
58)	T	Dibenz (a,j) a...	0.579	0.635	0.705	0.770	0.760	0.828	0.790		0.724	12.33

(#) = Out of Range

Phentermine

Response Ratio

164 of 521

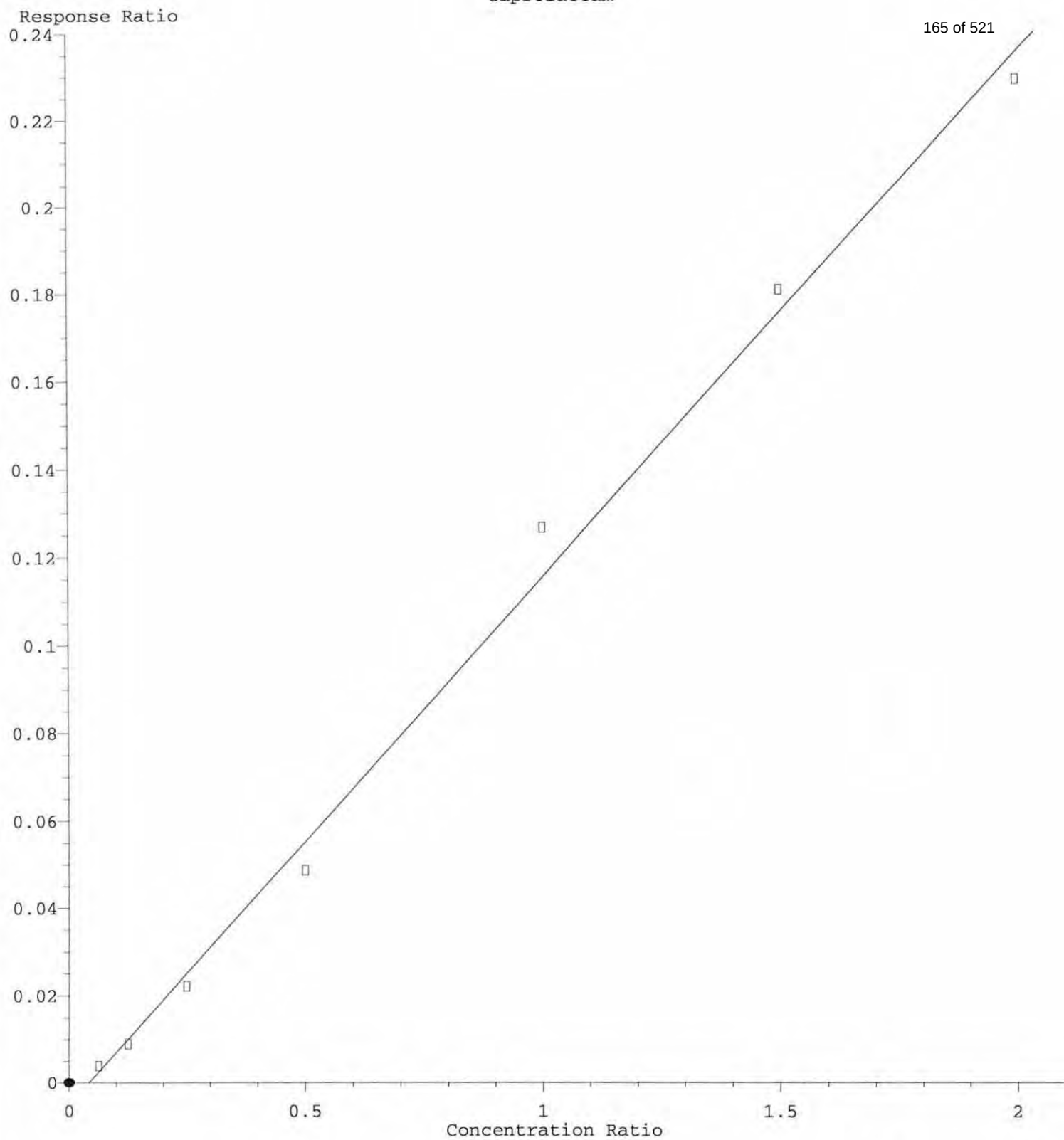


[Handwritten signature]

Response = 1.238e+000 * Amt - 8.781e-002
 Coef of Det (r^2) = 0.992278 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
 Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

Caprolactam

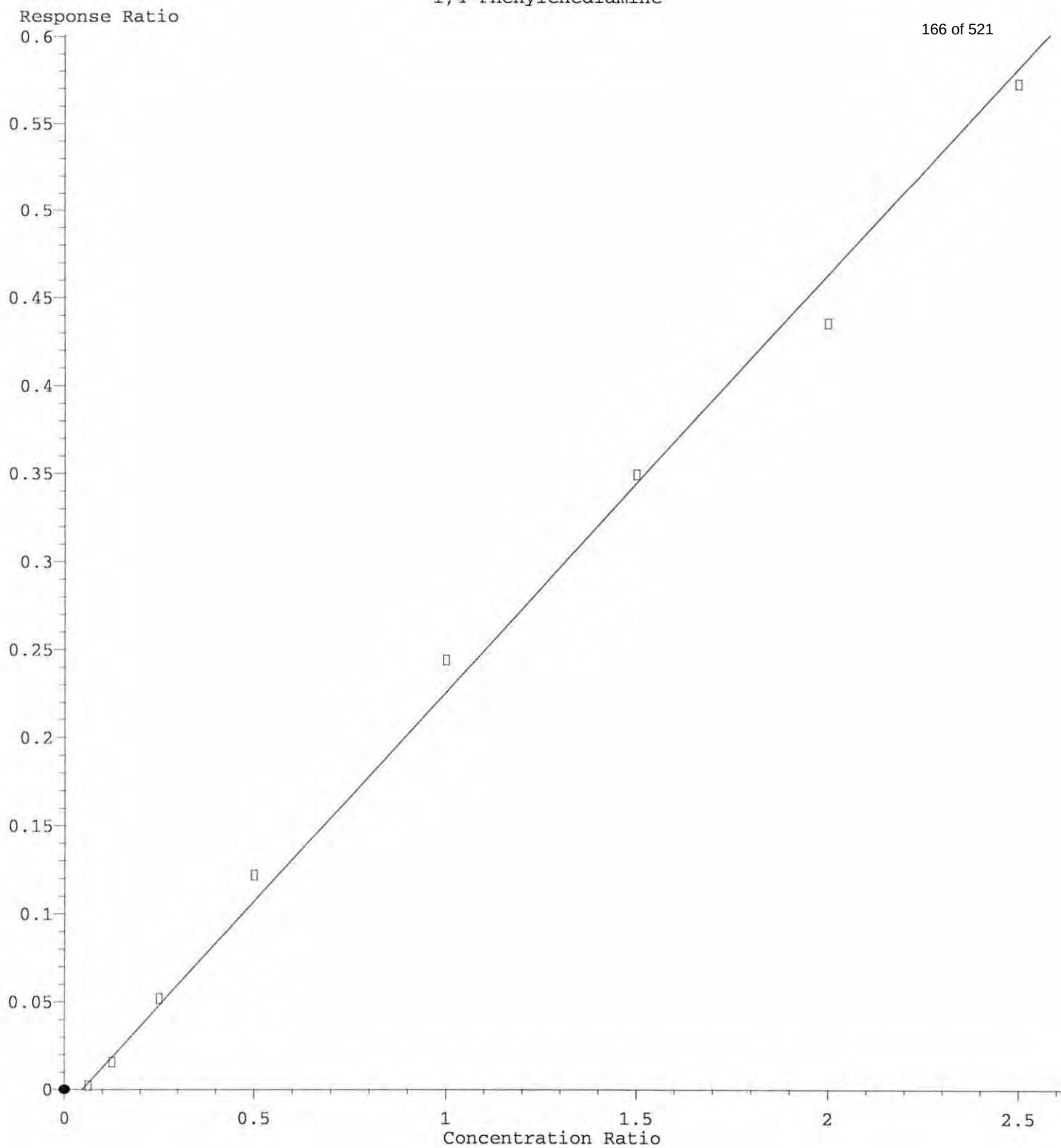
165 of 521



Response = $1.204e-001 \times \text{Amt} - 5.071e-003$
 Coef of Det (r^2) = 0.994336 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
 Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

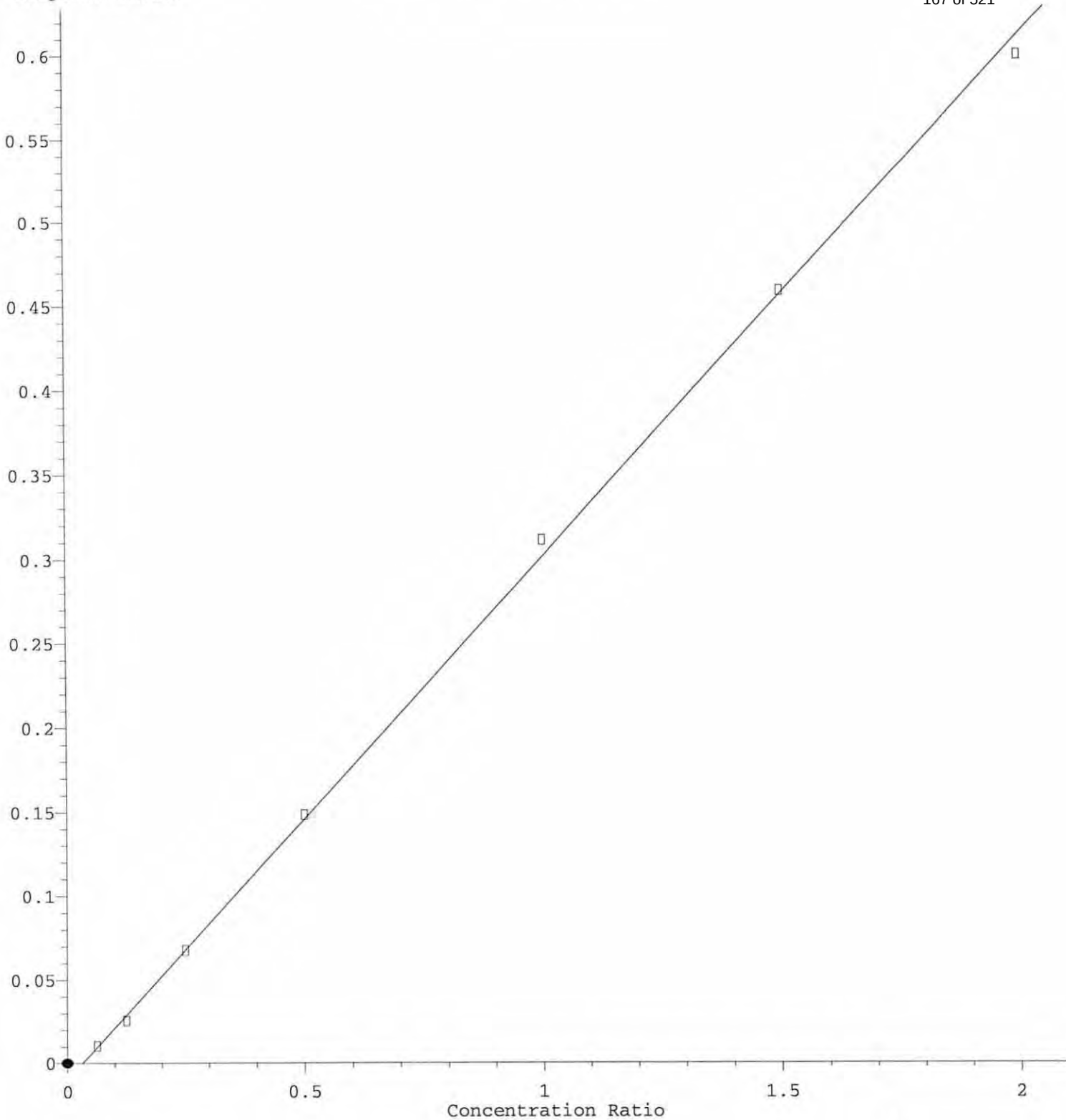
1,4-Phenylenediamine

166 of 521



Response = $2.370 \times 10^{-1} \times \text{Amt} - 1.104 \times 10^{-2}$
 Coef of Det (r^2) = 0.996006 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
 Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

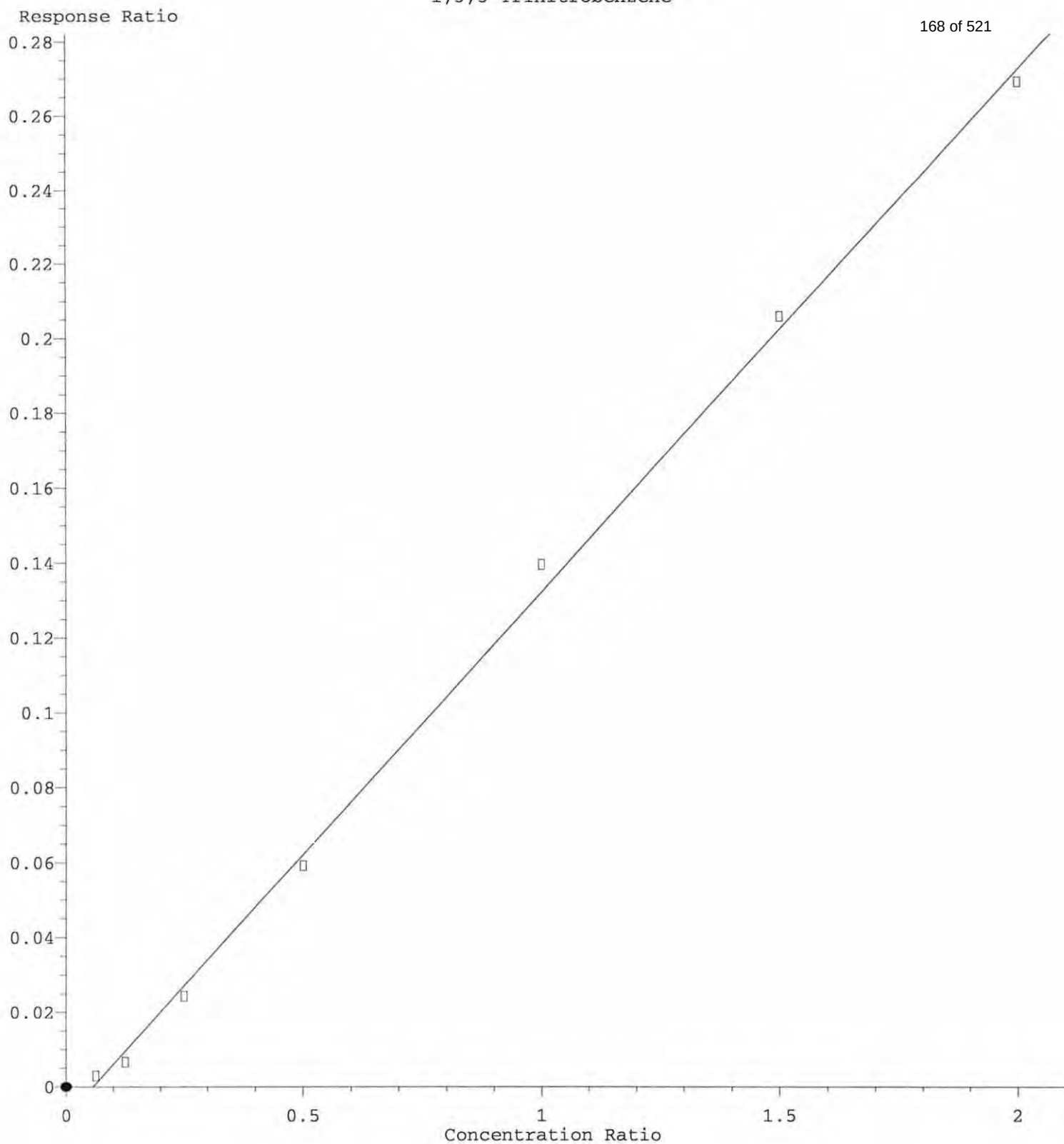
Response Ratio



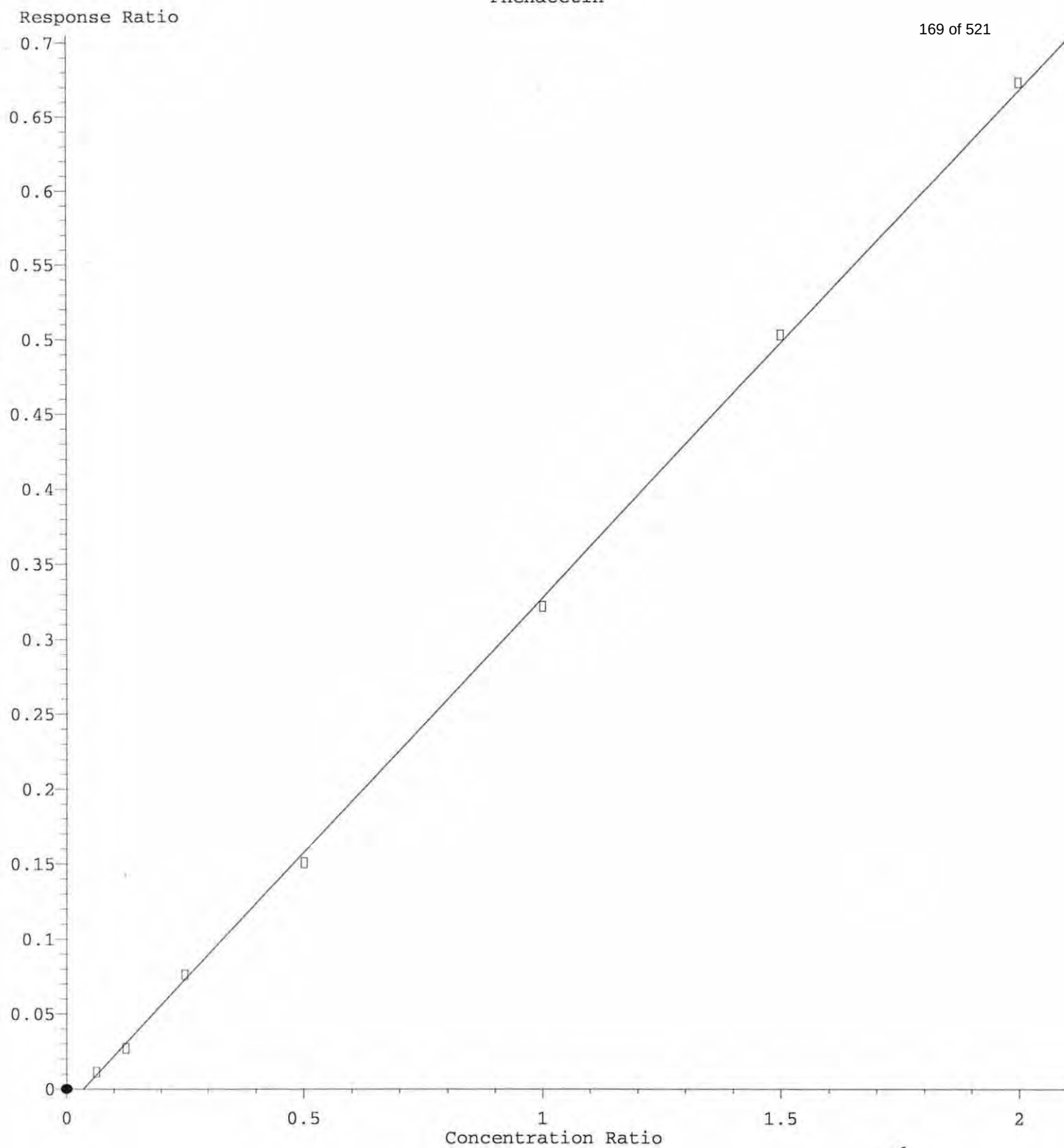
Response = $3.105 \times 10^{-1} \times \text{Amt} - 1.003 \times 10^{-2}$
Coef of Det (r^2) = 0.999242 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

1,3,5-Trinitrobenzene

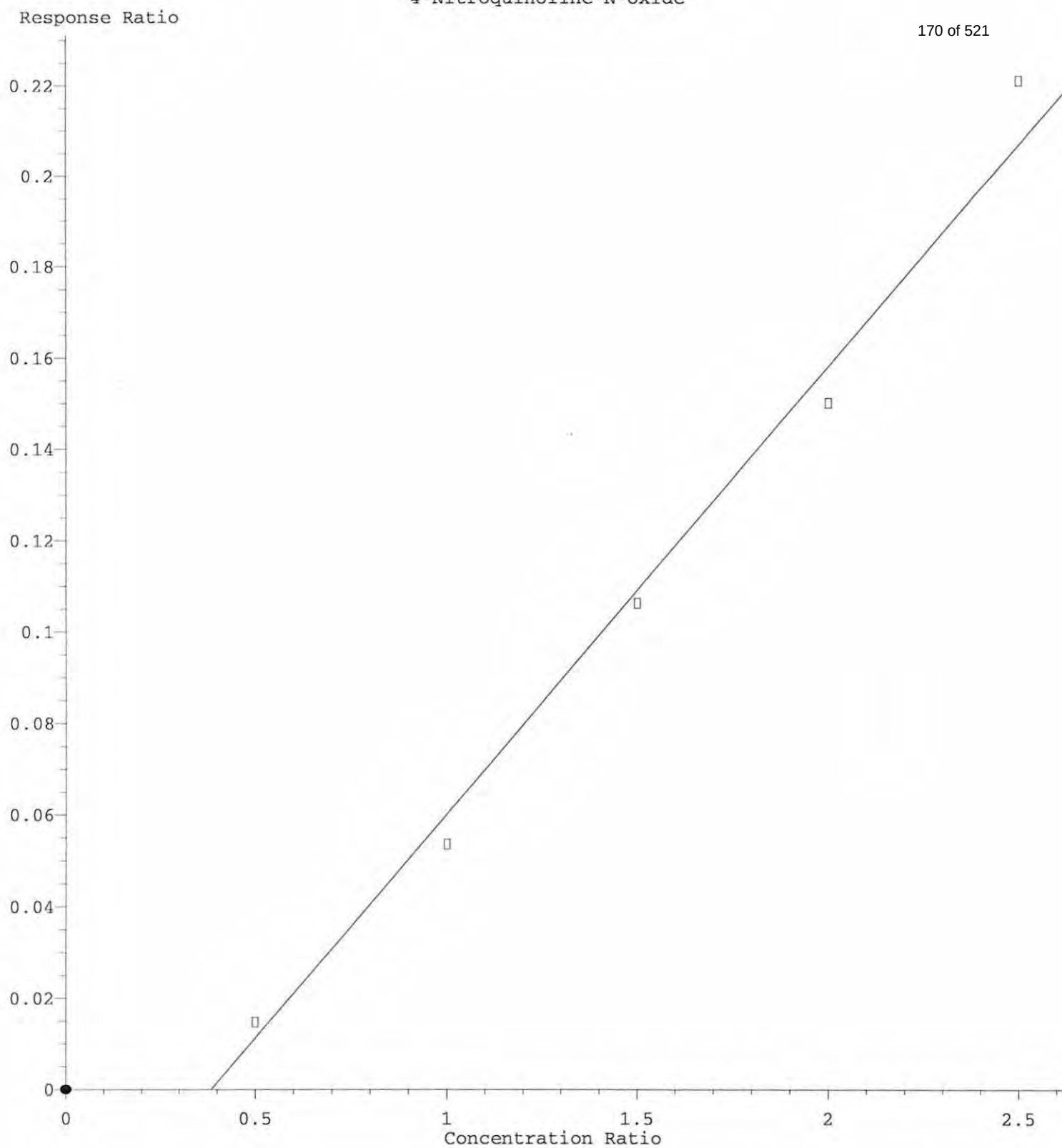
168 of 521



Response = $1.403e-001 * \text{Amt} - 7.979e-003$
 Coef of Det (r^2) = 0.996694 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
 Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

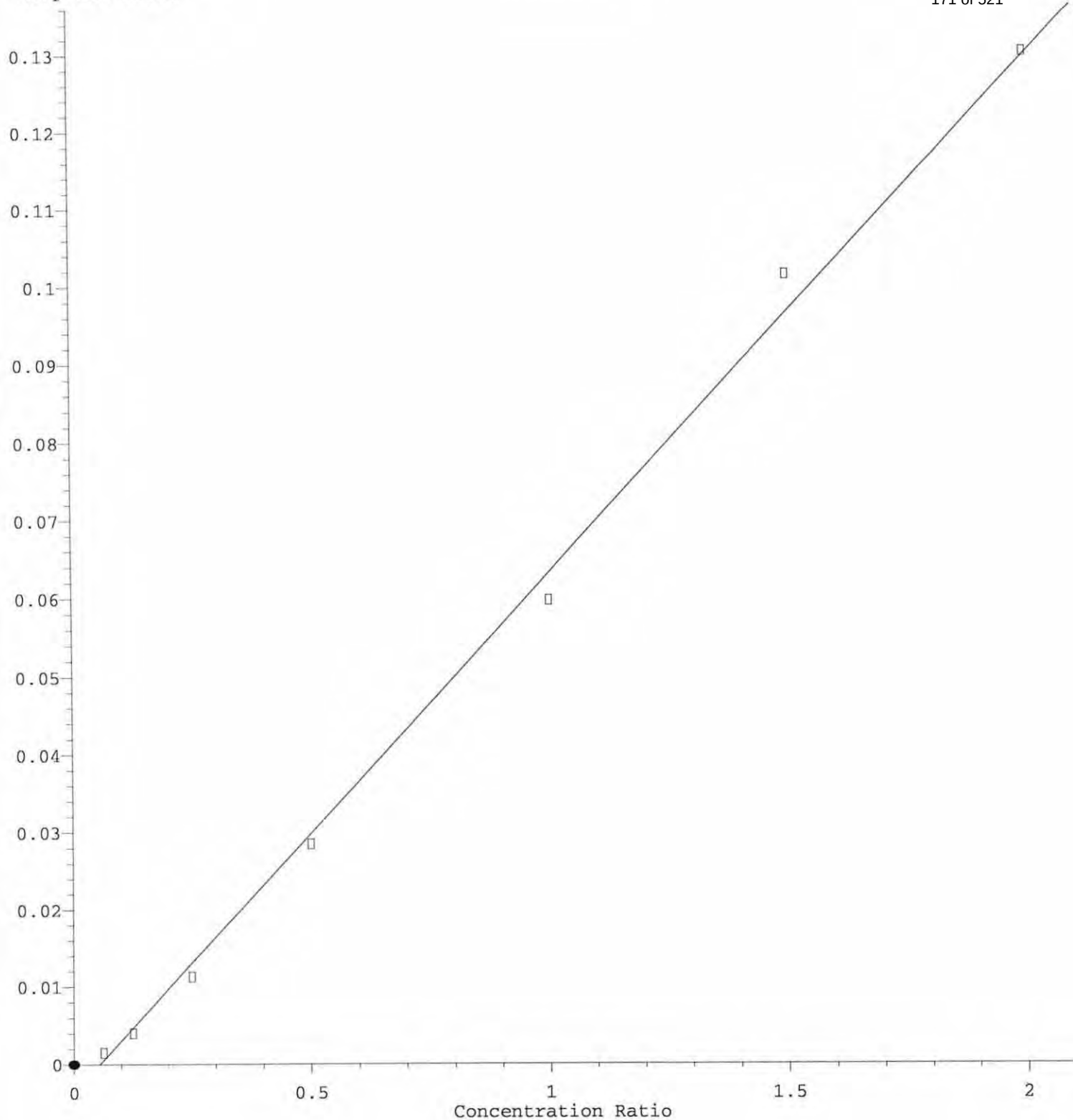


Response = $3.389 \times 10^{-1} \times \text{Amt} - 1.177 \times 10^{-2}$
Coef of Det (r^2) = 0.999189 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

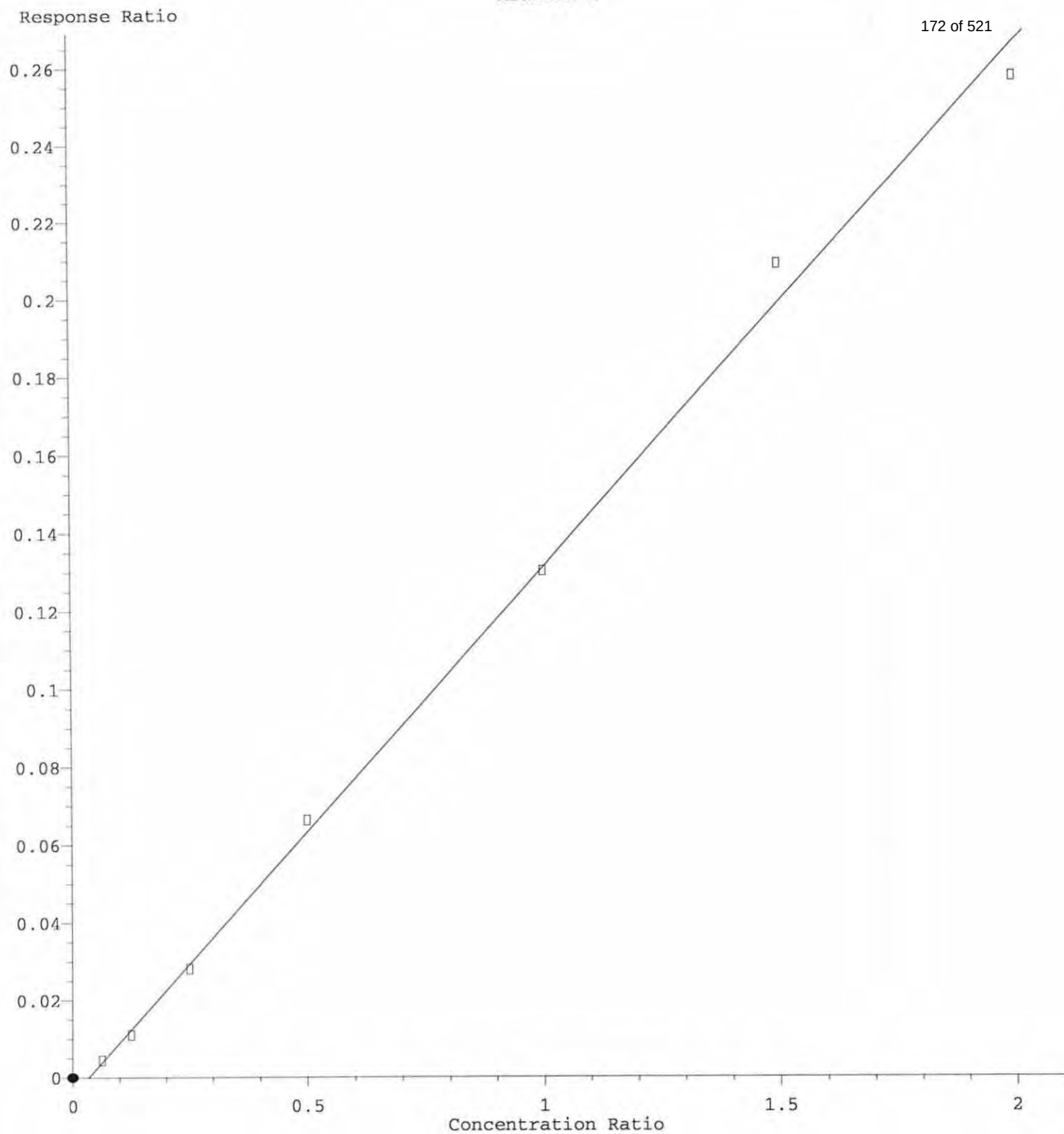


Response = $9.773 \times 10^{-2} \times \text{Amt} - 3.753 \times 10^{-2}$
Coef of Det (r^2) = 0.990458 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

Response Ratio

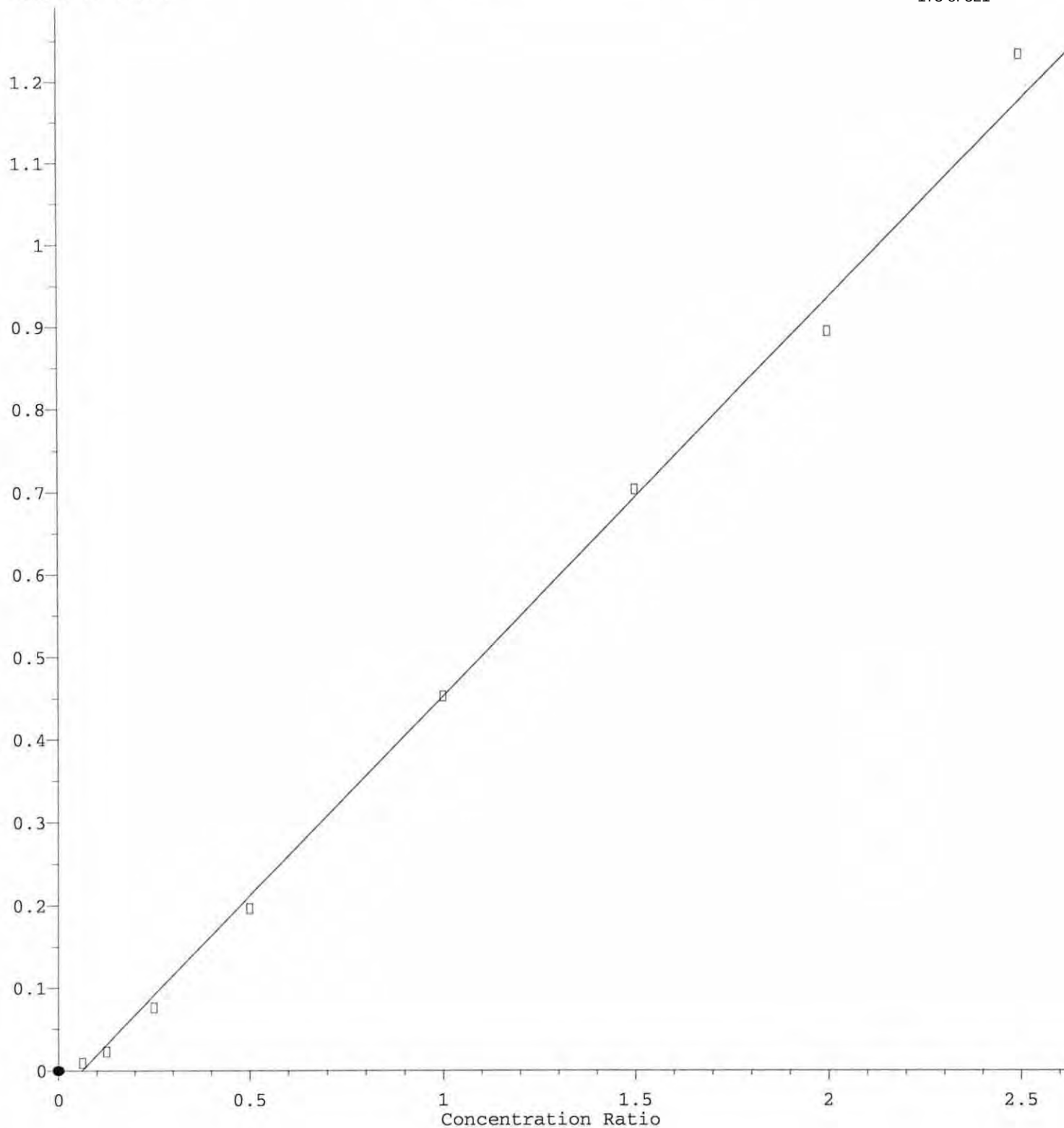


Response = $6.629 \times 10^{-2} \times \text{Amt} - 3.554 \times 10^{-3}$
Coef of Det (r^2) = 0.996337 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025



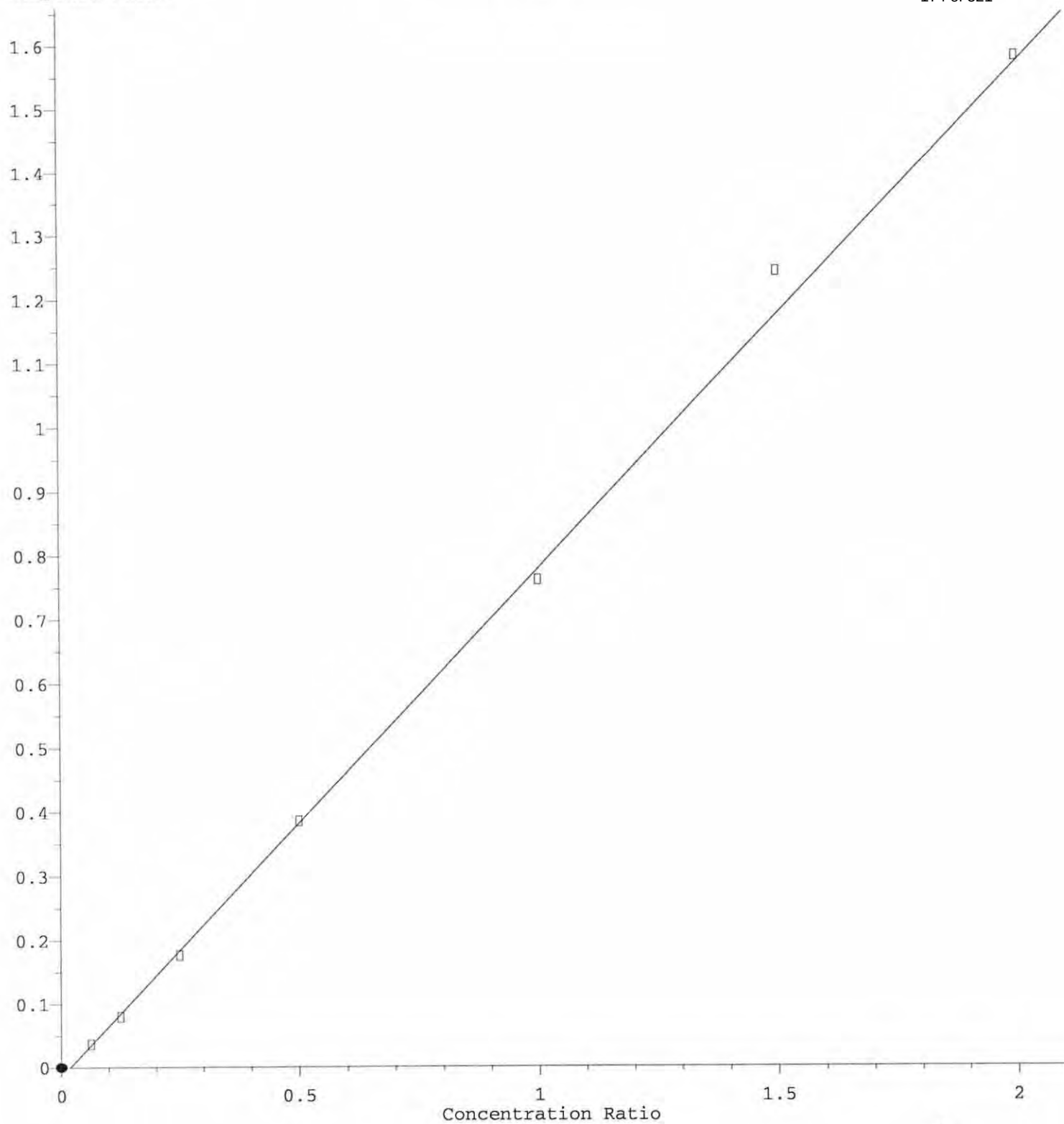
Response = $1.356e-001 * \text{Amt} - 4.649e-003$
Coef of Det (r^2) = 0.997881 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

Response Ratio



Response = $4.808e-001 * \text{Amt} - 2.957e-002$
Coef of Det (r^2) = 0.996233 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

Response Ratio



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Response = 7.922e-001 * Amt - 1.481e-002
 Coef of Det (r^2) = 0.997870 Curve Fit: wlr(1/a^2)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718AP.M
 Calibration Table Last Updated: Wed Jul 23 14:07:47 2025

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071816.D
 Acq On : 18 Jul 2025 09:31 pm
 Operator : BMS
 Sample : SEQ-CAL9
 Misc : APIX
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	5308946	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	10667420	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	6444982	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.316	188	9103813m	40.00	ug/ml	0.00
48) Chrysene-d12	18.555	240	7443830	40.00	ug/ml	0.00
55) Perylene-d12	19.940	264	8284956	40.00	ug/ml	# 0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.802	88	120988m	3.77	ug/ml	
3) Ethyl methacrylate	3.723	69	197110	2.64	ug/ml#	94
4) 2-Picoline	4.095	93	287434m	2.85	ug/ml	
5) N-Nitrosomethylethylamine	4.227	88	109917	2.34	ug/ml#	73
6) Methyl methanesulfonate	4.553	80	146057	2.69	ug/ml#	92
7) N-Nitrosodiethylamine	4.988	102	123028	2.47	ug/ml#	58
8) Ethyl methanesulfonate	5.314	79	179456	2.63	ug/ml	98
9) Benzaldehyde	5.697	106	215362	2.75	ug/ml#	85
10) Pentachloroethane	5.869	167	116026	2.50	ug/ml	97
11) Acetophenone	6.779	105	365627	2.71	ug/ml#	87
12) N-Nitrosomorpholine	6.802	56	118576	2.66	ug/ml#	50
13) N-Nitrosopyrrolidine	6.739	100	104612	2.28	ug/ml#	93
14) o-Toluidine	6.830	106	392385	2.81	ug/ml	98
15) N-Nitrosopiperidine	7.282	114	123548	2.47	ug/ml#	58
16) Phentermine	8.061	58	28370	3.01	ug/ml#	60
18) alpha Terpineol	8.318	59	126233	2.59	ug/ml#	33
19) 2,6-Dichlorophenol	8.410	162	174708	2.36	ug/ml	93
20) Hexachloropropene	8.467	213	87206	1.90	ug/ml	98
21) Caprolactam	9.005	55	41229m	2.94	ug/ml	
22) N-Nitrosodibutylamine	9.079	84	154870	2.31	ug/ml#	68
23) 1,4-Phenylenediamine	9.102	108	23688	2.24	ug/ml#	57
24) Isosafrole	9.514	162	211354	2.55	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.035	216	280898	2.62	ug/ml	99
27) Safrole	10.641	162	195184	2.43	ug/ml	93
28) Biphenyl	10.698	154	656046	2.88	ug/ml	99
29) 1-Chloronaphthalene	10.767	162	499338	2.74	ug/ml#	98
30) Diphenyl ether	10.944	170	363425	2.72	ug/ml	95
31) 1,4-Naphthoquinone	11.128	158	117062	2.15	ug/ml#	88
32) Pentachlorobenzene	12.364	250	245550	2.56	ug/ml	98
33) 1-Naphthylamine	12.638	143	313747	2.23	ug/ml	96
34) 2-Naphthylamine	12.827	115	157028	2.53	ug/ml	92
35) 5-Nitro-o-toluidine	13.308	152	66496	2.62	ug/ml	86
37) Diallylate	14.315	86	149746	2.61	ug/ml	95
38) 1,3,5-Trinitrobenzene	14.280	75	26246	3.24	ug/ml#	87
39) Phenacetin	14.372	108	102506	2.92	ug/ml	97
40) Atrazine	14.881	200	140844	2.41	ug/ml#	75
41) 4-Aminobiphenyl	15.007	169	420412	2.86	ug/ml	99
42) Pentachloronitrobenzene	15.001	237	60024	2.27	ug/ml	92
43) Pronamide	15.173	173	192338	2.26	ug/ml#	93
44) 4-Nitroquinoline-N-oxide	16.512	190	4005m	4.66	ug/ml	
45) Methapyrilene	16.638	58	134216	1.87	ug/ml#	59

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

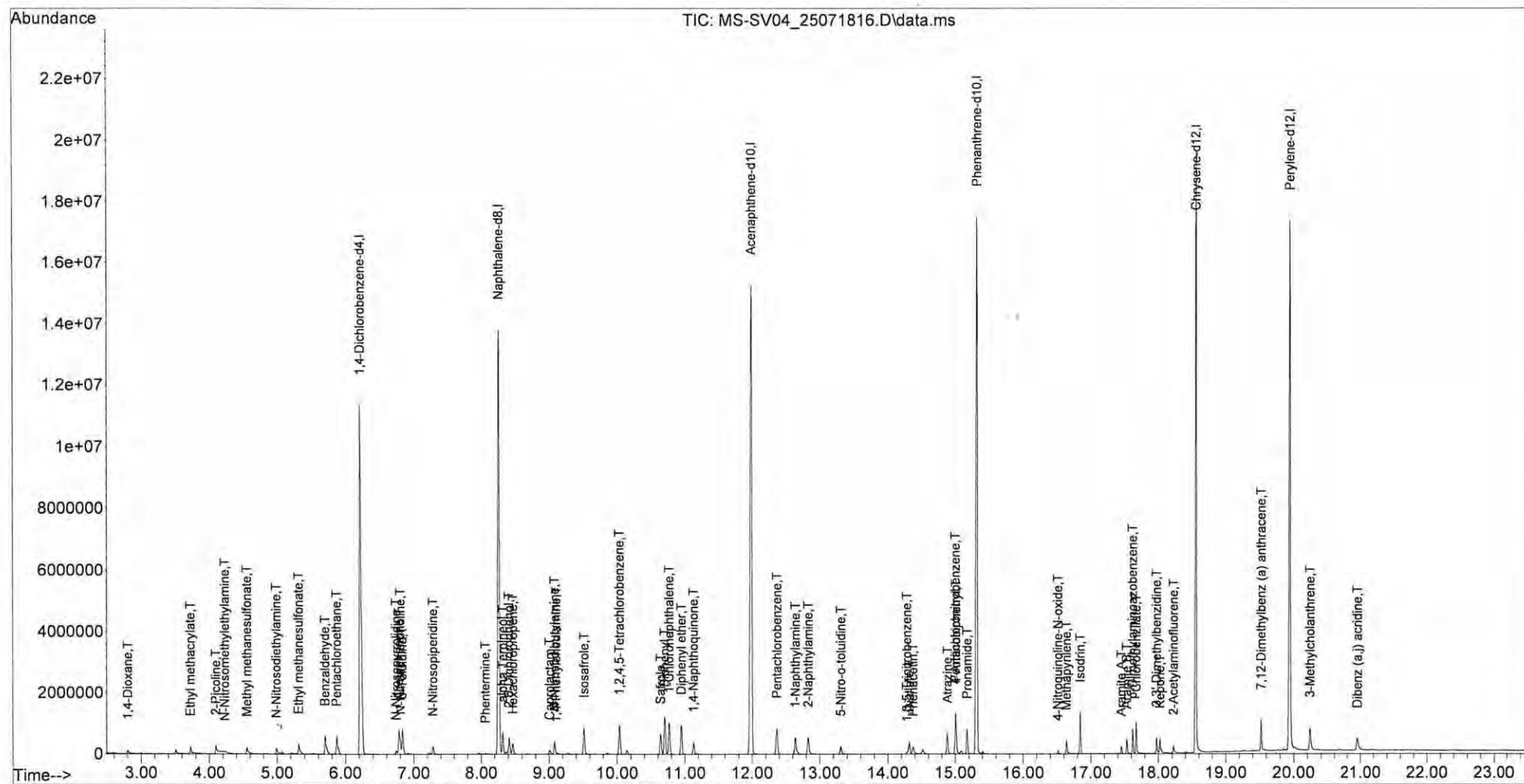
Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.838	193	101246	2.77	ug/ml	97
47) 3,3'-Dimethylbenzidine	17.971	212	201938	2.13	ug/ml	98
49) Aramite A	17.450	185	11263	3.06	ug/ml#	85
50) Aramite B	17.531	185	32743	2.67	ug/ml#	65
51) p-Dimethylaminoazobenzene	17.616	120	143808	2.17	ug/ml	98
52) Chlorobenzilate	17.668	251	164093	1.96	ug/ml	95
53) Kepone	18.023	272	47132	2.44	ug/ml#	84
54) 2-Acetylaminofluorene	18.223	181	68902	3.23	ug/ml	99
56) 7,12-Dimethylbenz (a) ...	19.522	256	228765	1.95	ug/ml	96
57) 3-Methylcholanthrene	20.237	268	237745	2.05	ug/ml	96
58) Dibenz (a,j) acridine	20.958	279	300022	2.58	ug/ml#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

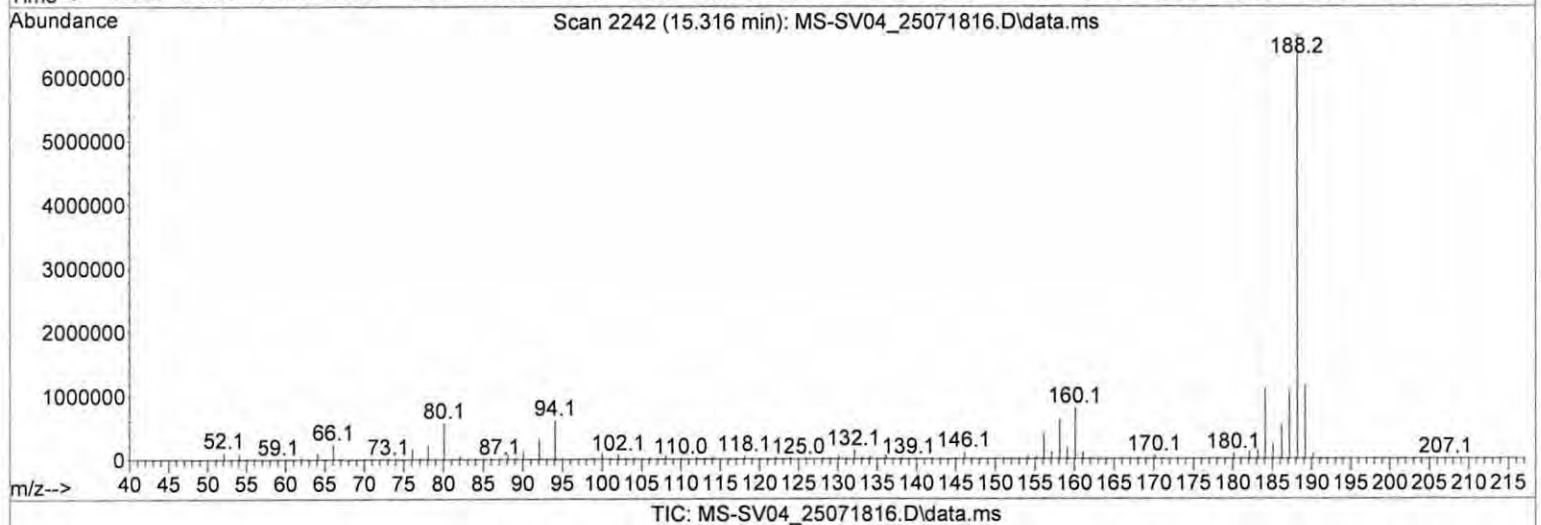
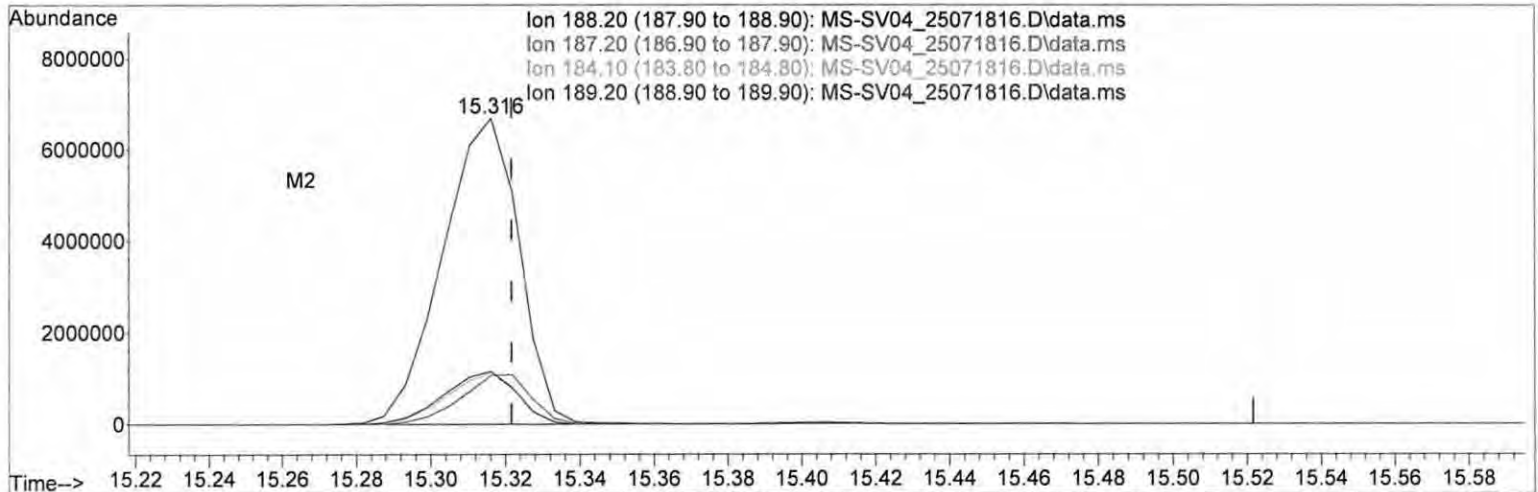
Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

178 of 521

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(36) Phenanthrene-d10 (I)

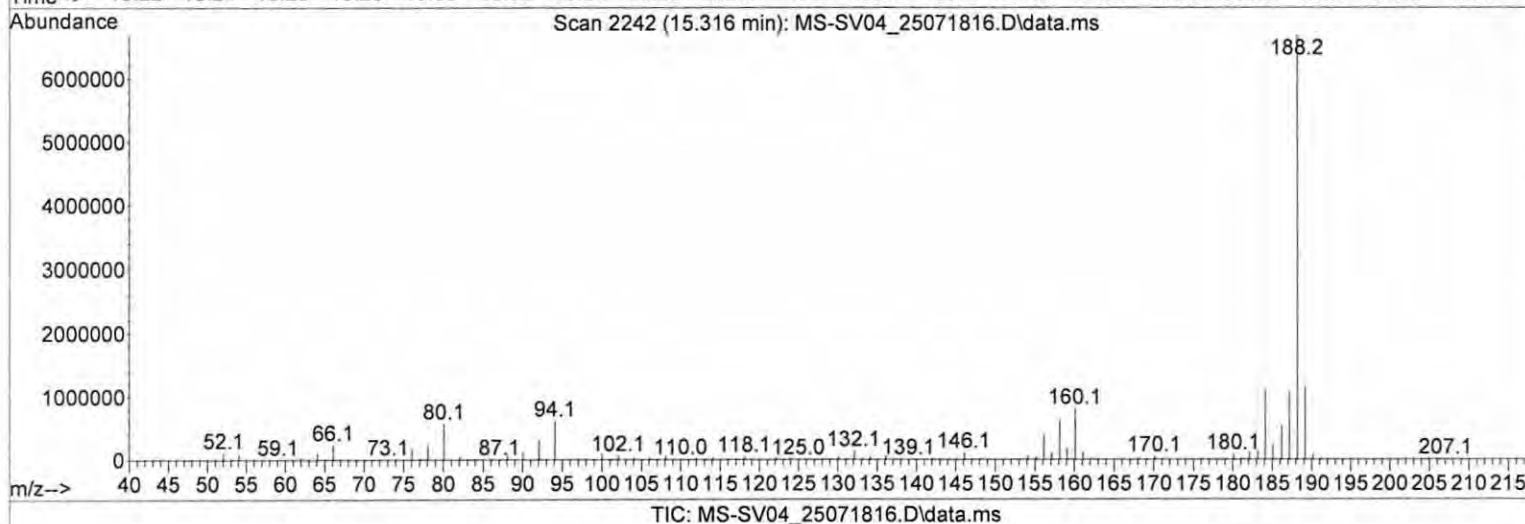
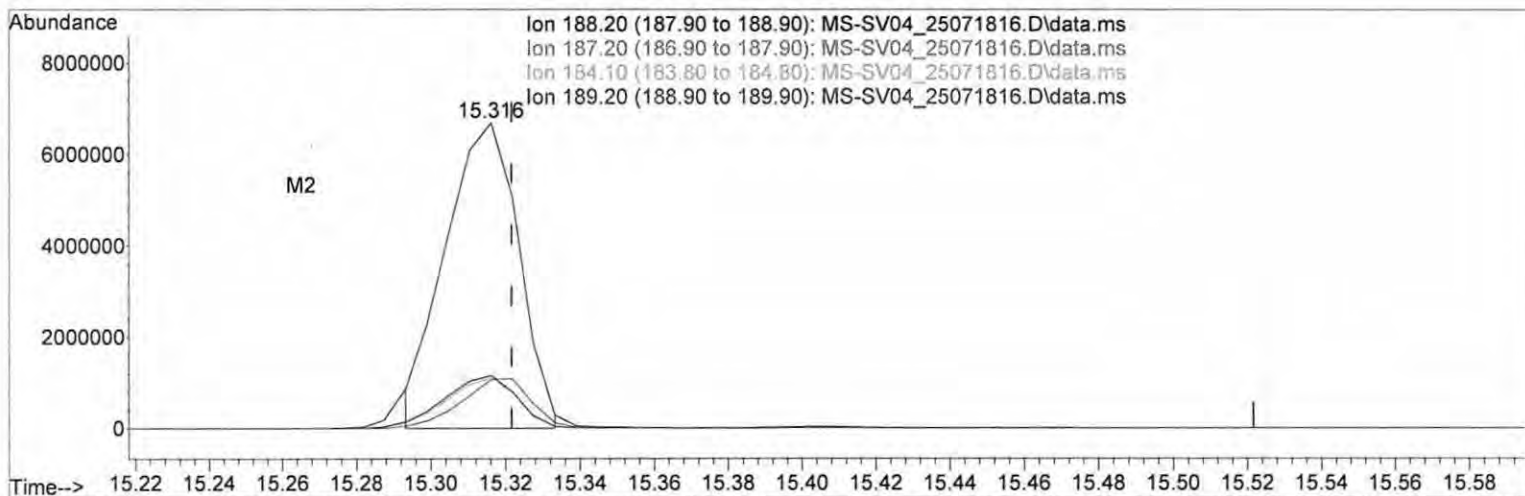
15.316min (-0.006) 40.00 ug/ml

response 9515120

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.92#
184.10	14.80	15.55
189.20	16.40	16.51

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(36) Phenanthrene-d10 (I)

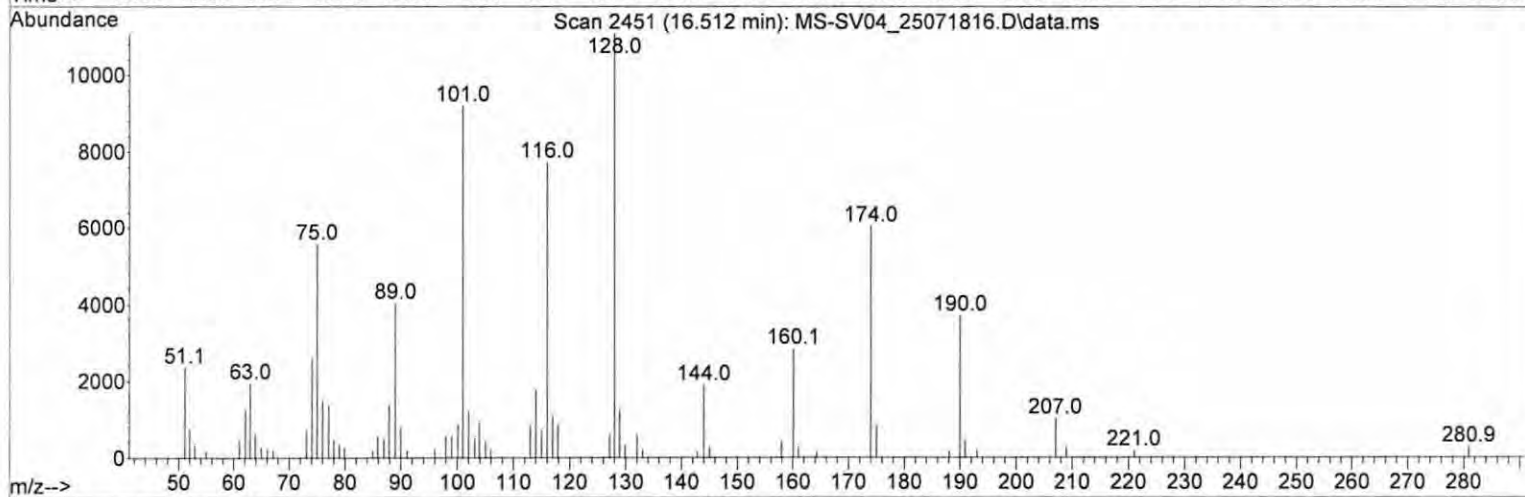
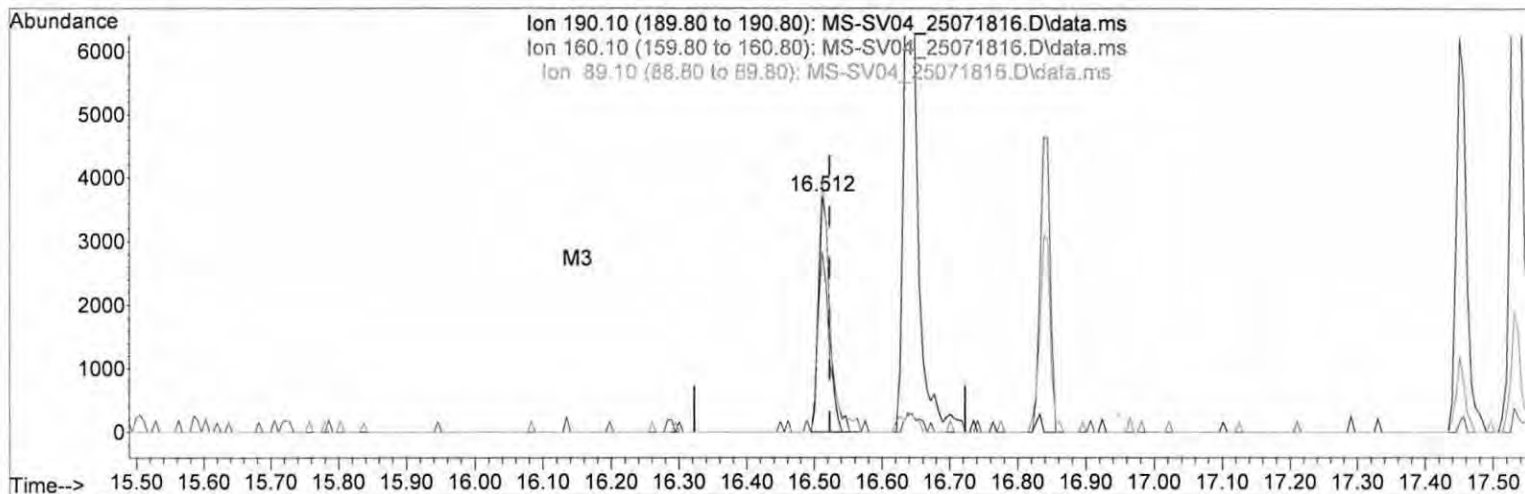
15.316min (-0.006) 40.00 ug/ml m

response 9103813

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	15.60#
184.10	14.80	16.25
189.20	16.40	17.26

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

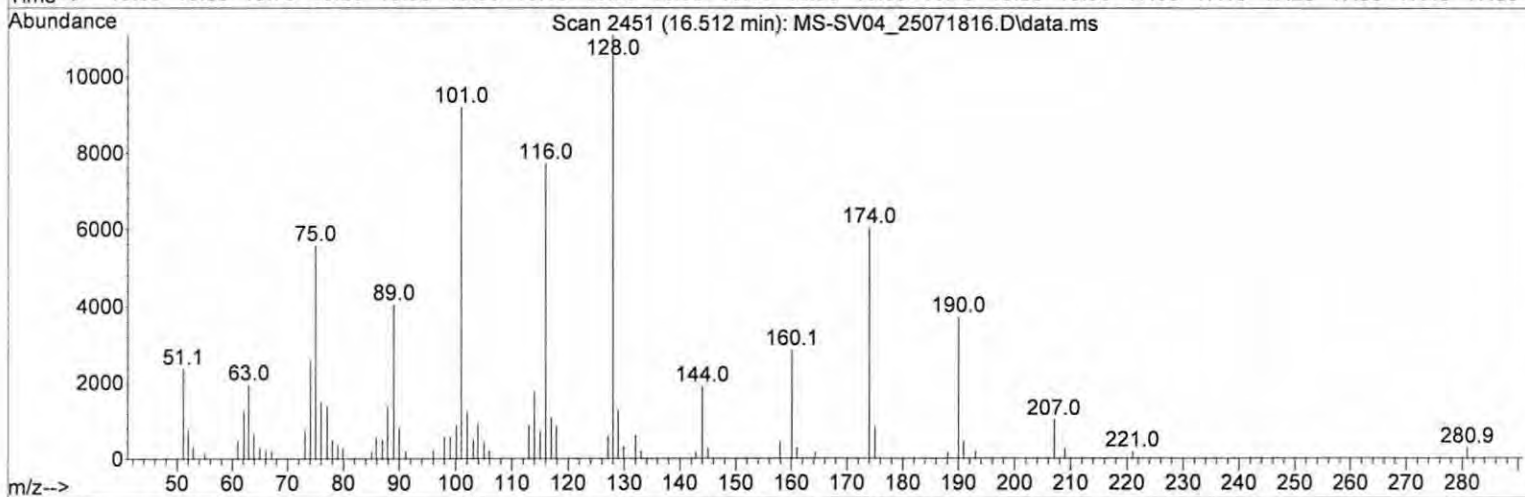
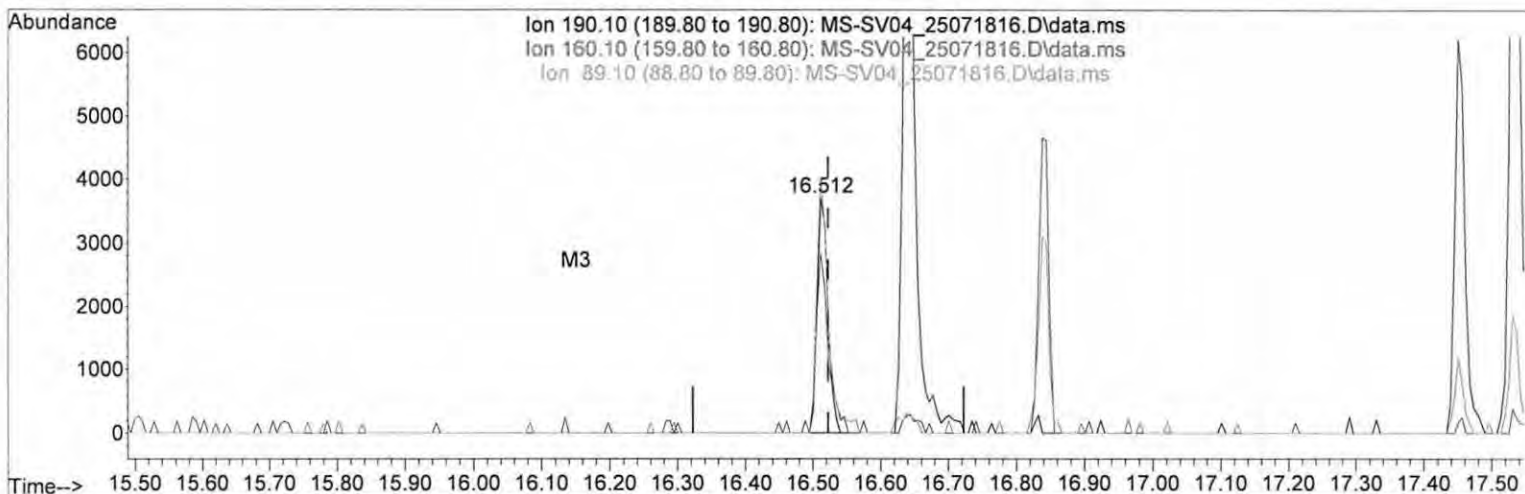
16.512min (-0.011) 4.66 ug/ml

response 4004

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	89.04#
89.10	52.80	118.46#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

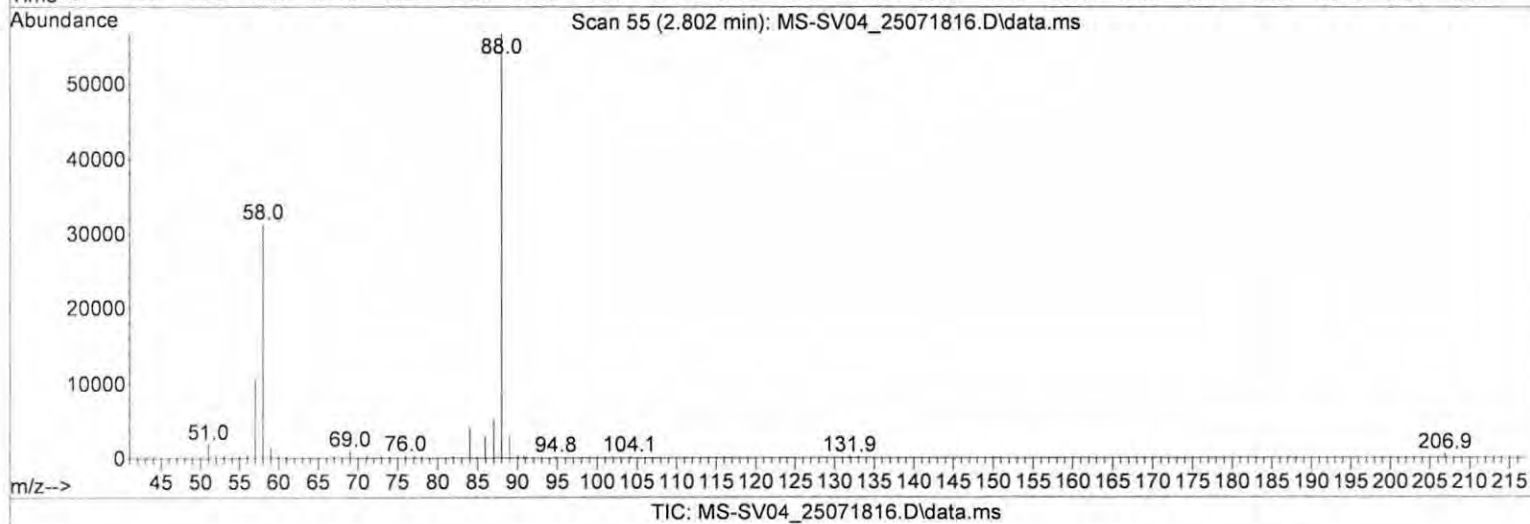
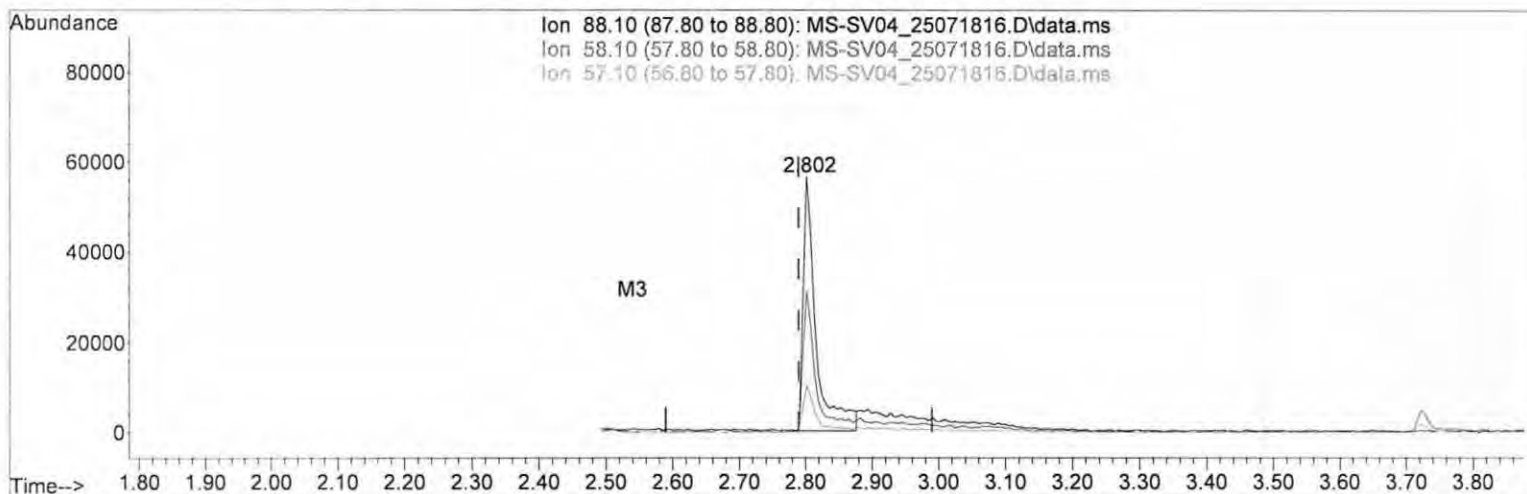
16.512min (-0.011) 4.66 ug/ml m

response 4004

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	89.04#
89.10	52.80	118.46#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(2) 1,4-Dioxane (T)

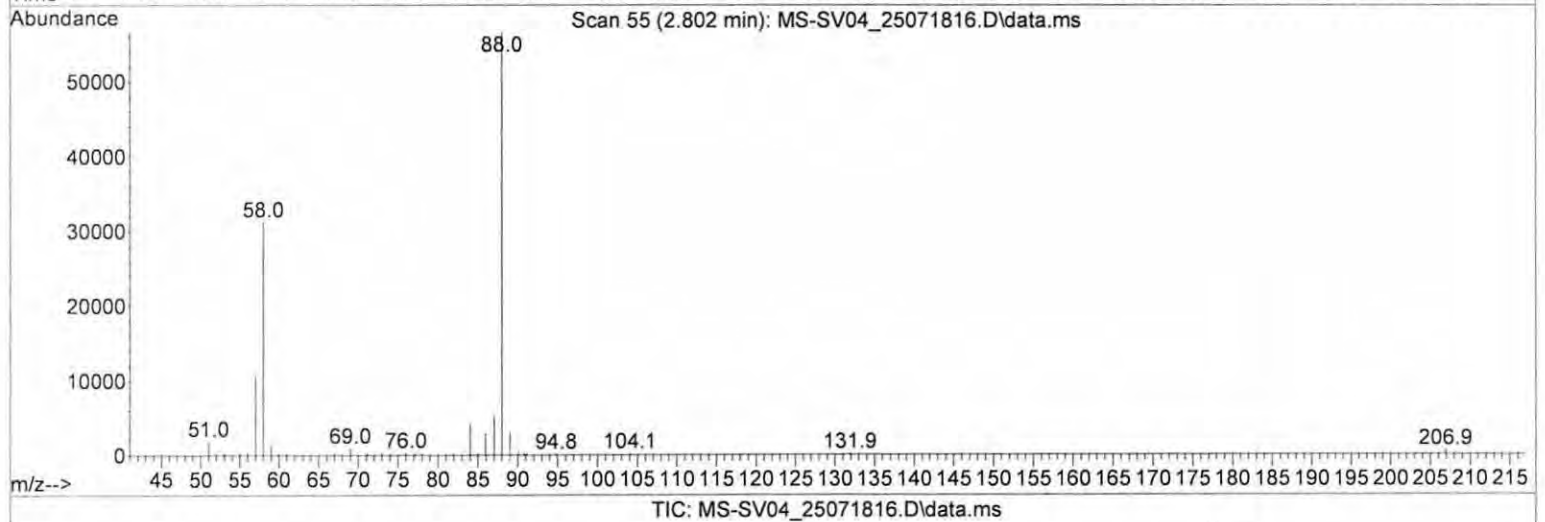
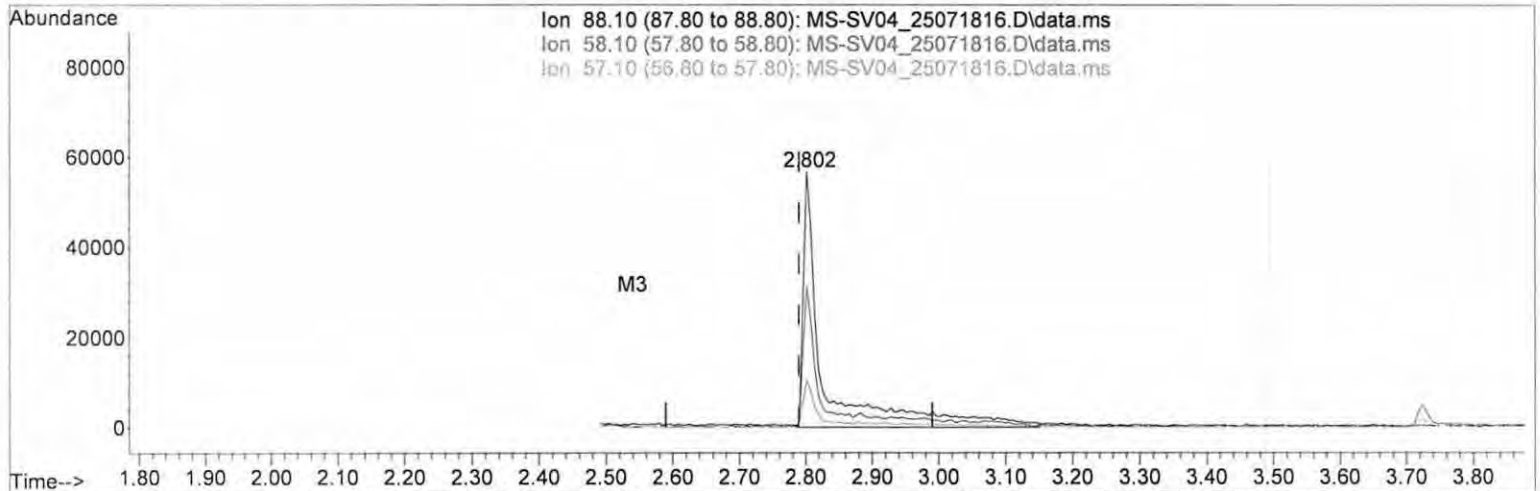
2.802min (+ 0.012) 2.34 ug/ml

response 75144

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	56.17#
57.10	37.00	19.11#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(2) 1,4-Dioxane (T)

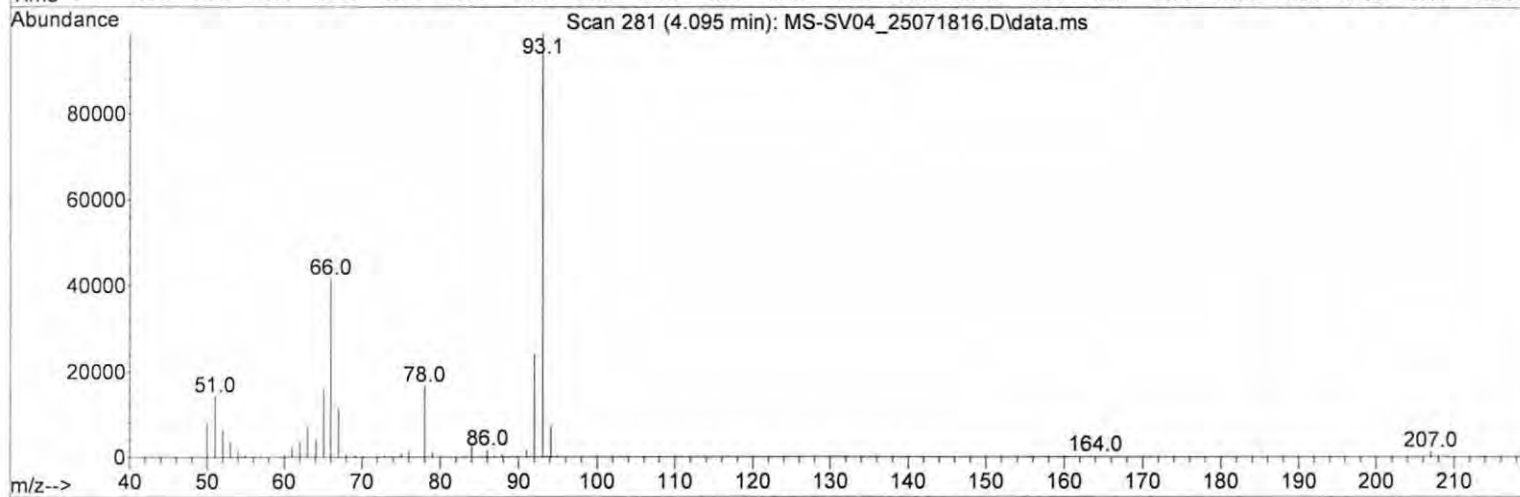
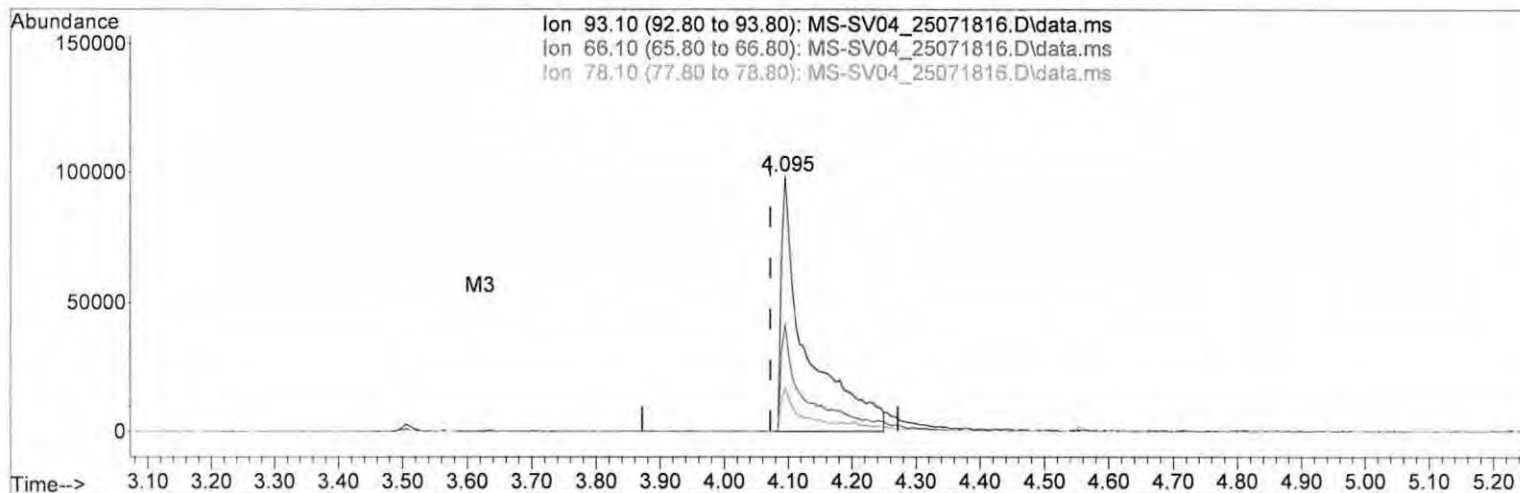
2.802min (+ 0.012) 3.77 ug/ml m

response 120988

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	34.88#
57.10	37.00	11.87#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(4) 2-Picoline (T)

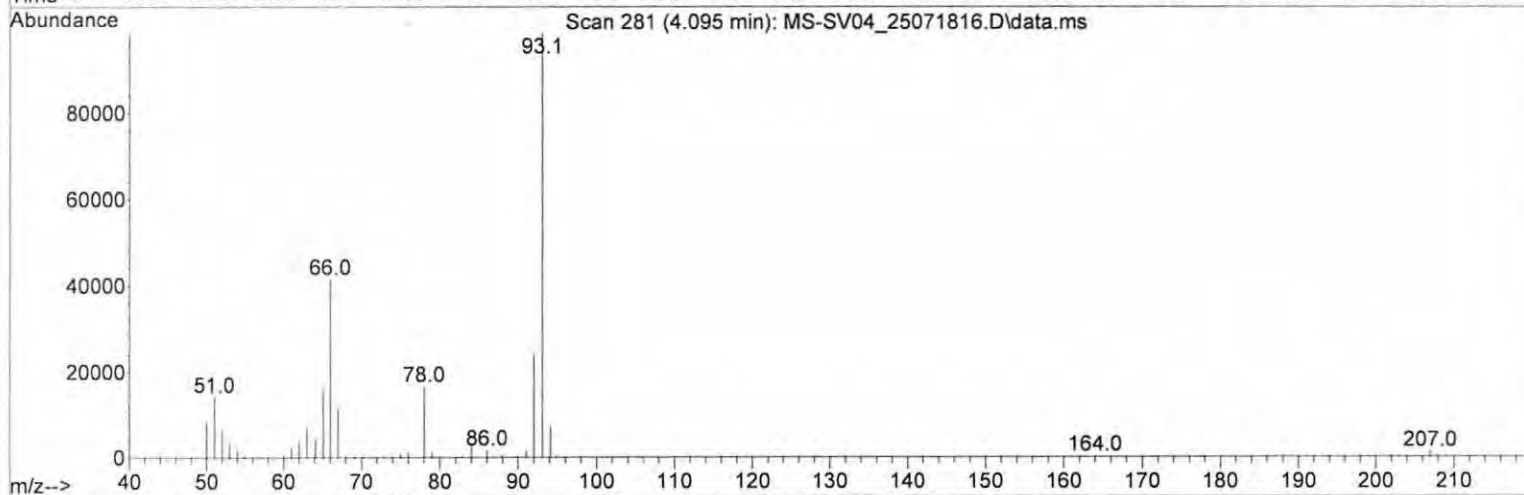
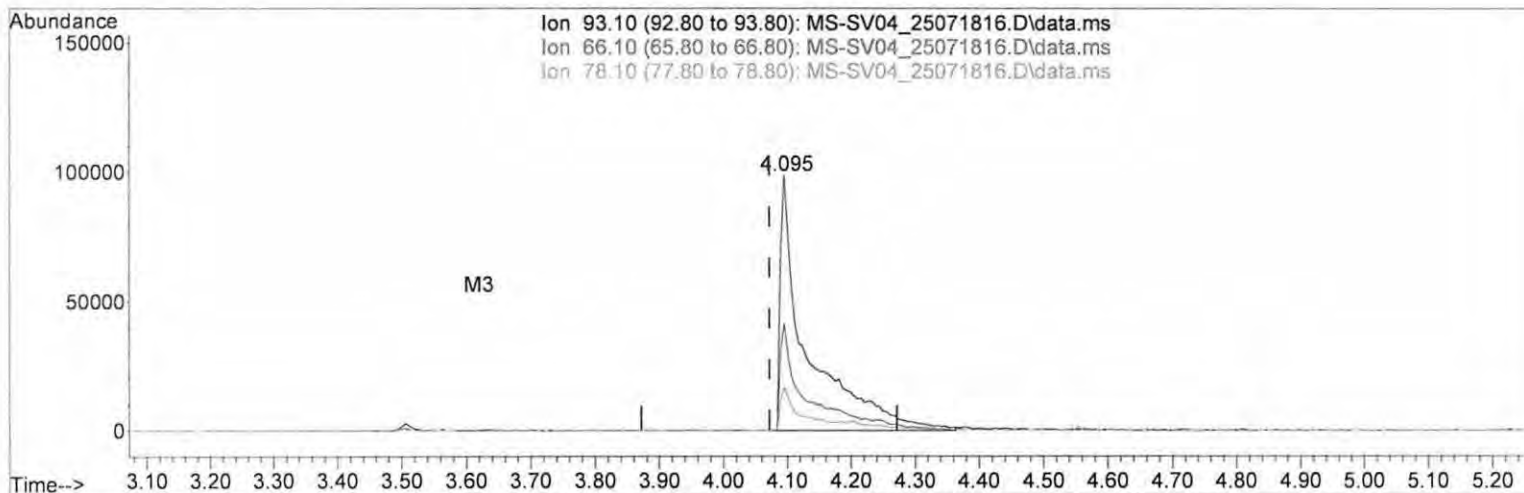
4.095min (+ 0.023) 2.64 ug/ml

response 266498

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	39.54
78.10	16.40	13.19
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(4) 2-Picoline (T)

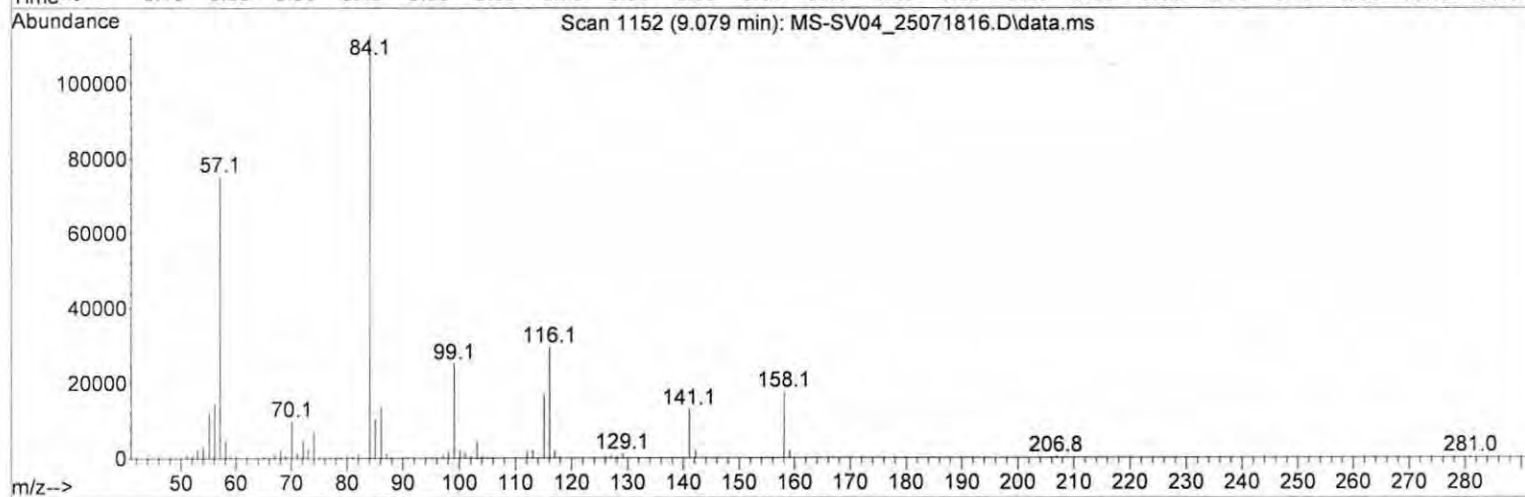
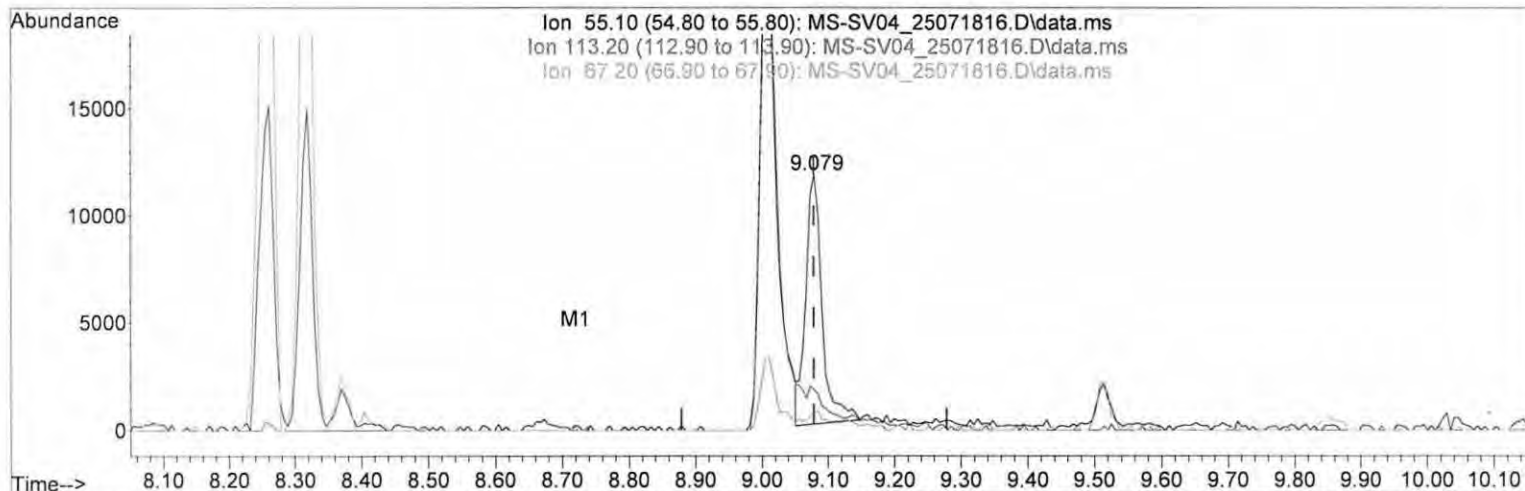
4.095min (+ 0.023) 2.85 ug/ml m

response 287434

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	36.66
78.10	16.40	12.23#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(21) Caprolactam (T)

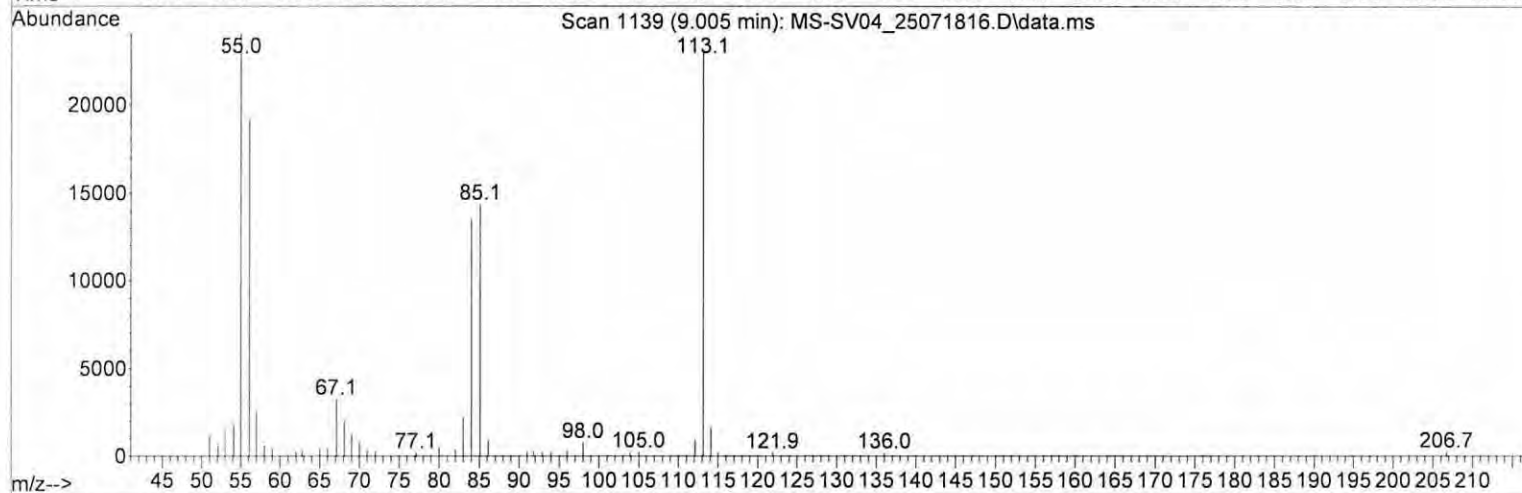
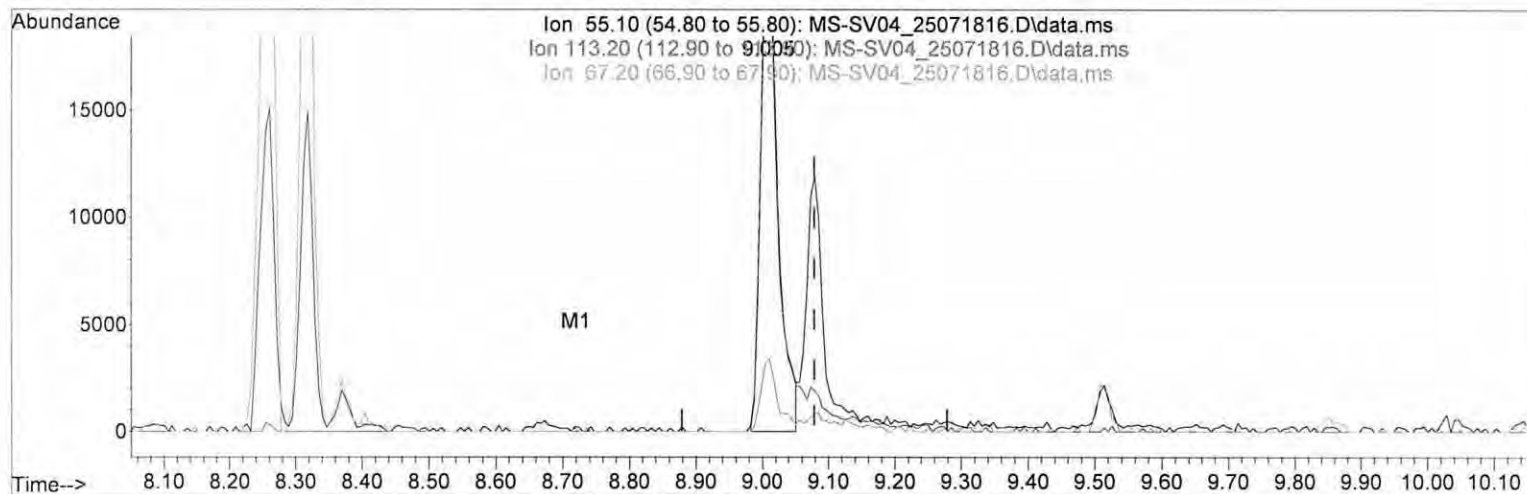
9.079min (+ 0.000) 2.27 ug/ml

response 19711

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	6.83
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071816.D
Acq On : 18 Jul 2025 09:31 pm
Operator : BMS
Sample : SEQ-CAL9
Misc : APIX
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 23 11:22:40 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071816.D\data.ms

(21) Caprolactam (T)

9.005min (-0.074) 2.94 ug/ml m

response 41229

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	3.26#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071817.D
 Acq On : 18 Jul 2025 10:00 pm
 Operator : BMS
 Sample : SEQ-CALA
 Misc : APIX
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatiles Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4786574	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.255	136	9607082	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.980	164	5657008	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.316	188	8098057m	40.00	ug/ml	0.00
48) Chrysene-d12	18.555	240	6393361	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	6978963	40.00	ug/ml	# 0.00
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.785	88	220136m	7.62	ug/ml	
3) Ethyl methacrylate	3.717	69	359817	5.34	ug/ml#	94
4) 2-Picoline	4.084	93	536740m	5.91	ug/ml	
5) N-Nitrosomethylethylamine	4.221	88	208877	4.93	ug/ml#	75
6) Methyl methanesulfonate	4.547	80	263397	5.37	ug/ml#	93
7) N-Nitrosodiethylamine	4.988	102	224593	5.01	ug/ml#	58
8) Ethyl methanesulfonate	5.314	79	321215	5.22	ug/ml	97
9) Benzaldehyde	5.697	106	394081	5.57	ug/ml#	85
10) Pentachloroethane	5.869	167	215547	5.15	ug/ml	96
11) Acetophenone	6.779	105	657163	5.41	ug/ml#	88
12) N-Nitrosomorpholine	6.802	56	215937	5.38	ug/ml#	50
13) N-Nitrosopyrrolidine	6.739	100	196673	4.75	ug/ml#	93
14) o-Toluidine	6.830	106	709961	5.65	ug/ml	100
15) N-Nitrosopiperidine	7.282	114	224629	4.97	ug/ml#	58
16) Phentermine	7.975	58	182647	4.07	ug/ml#	68
18) alpha Terpineol	8.318	59	231685	5.28	ug/ml#	33
19) 2,6-Dichlorophenol	8.409	162	318997	4.78	ug/ml	93
20) Hexachloropropene	8.467	213	157379	3.81	ug/ml	98
21) Caprolactam	9.010	55	85504m	4.61	ug/ml	
22) N-Nitrosodibutylamine	9.079	84	285929	4.73	ug/ml#	59
23) 1,4-Phenylenediamine	9.090	108	150897	4.52	ug/ml#	48
24) Isosafrole	9.514	162	383426	5.15	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.035	216	504506	5.22	ug/ml	99
27) Safrole	10.641	162	356562	5.06	ug/ml	94
28) Biphenyl	10.698	154	1153460	5.76	ug/ml	99
29) 1-Chloronaphthalene	10.767	162	875132	5.48	ug/ml#	98
30) Diphenyl ether	10.944	170	643878	5.50	ug/ml	96
31) 1,4-Naphthoquinone	11.127	158	236472	4.95	ug/ml	90
32) Pentachlorobenzene	12.363	250	431444	5.13	ug/ml	99
33) 1-Naphthylamine	12.638	143	628516	5.08	ug/ml	96
34) 2-Naphthylamine	12.827	115	281692	5.16	ug/ml	95
35) 5-Nitro-o-toluidine	13.308	152	144794	4.59	ug/ml	87
37) Diallate	14.315	86	277070	5.44	ug/ml	97
38) 1,3,5-Trinitrobenzene	14.280	75	53457	4.31	ug/ml#	89
39) Phenacetin	14.378	108	218663	4.78	ug/ml	97
40) Atrazine	14.881	200	264344	5.08	ug/ml#	75
41) 4-Aminobiphenyl	15.007	169	763421	5.84	ug/ml	98
42) Pentachloronitrobenzene	15.001	237	113475	4.83	ug/ml	92
43) Pronamide	15.173	173	375499	4.95	ug/ml#	93
44) 4-Nitroquinoline-N-oxide	16.512	190	7926	4.93	ug/ml#	58
45) Methapyrilene	16.638	58	295871	4.63	ug/ml#	58



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

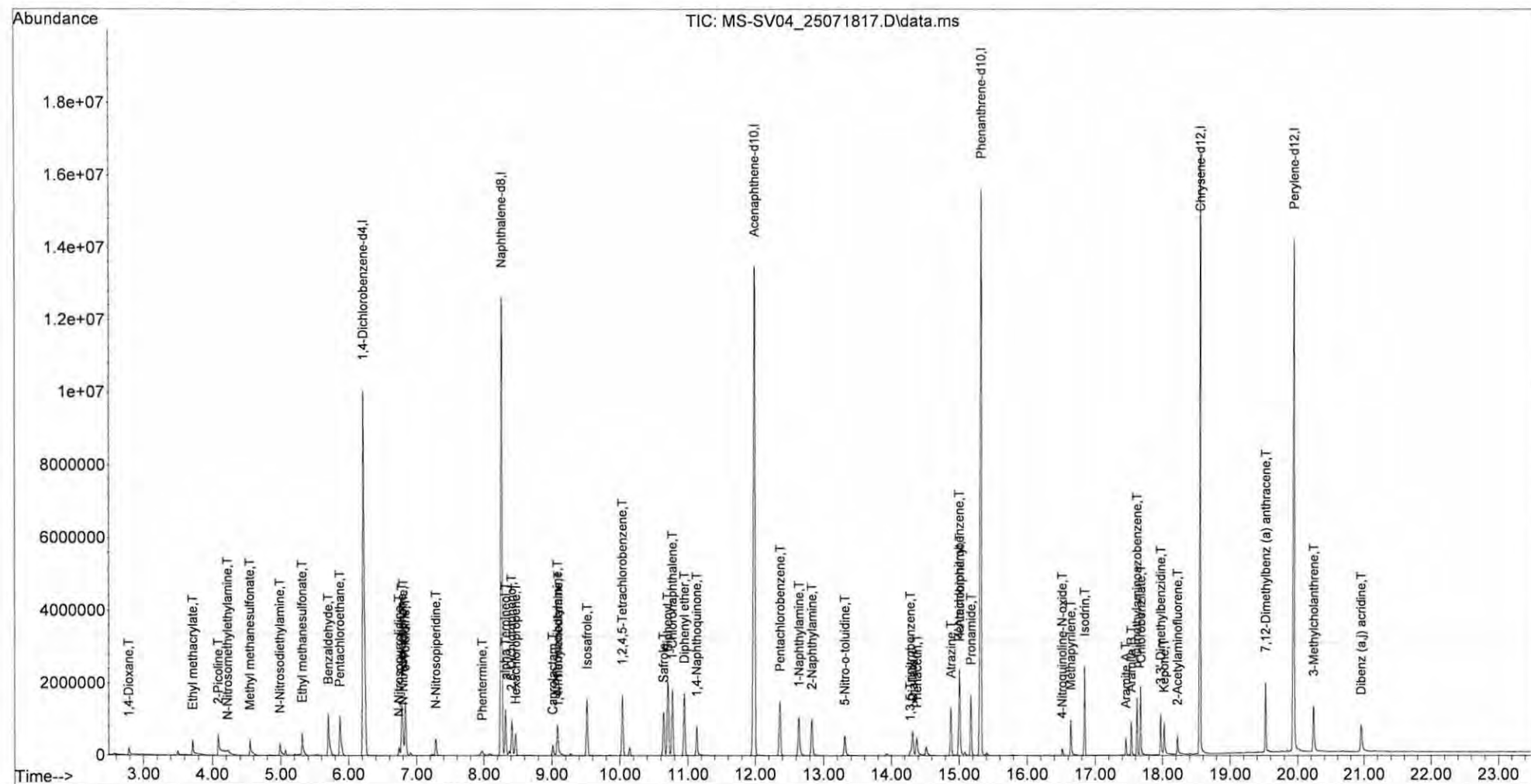
Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.838	193	187305	5.76	ug/ml	96
47) 3,3'-Dimethylbenzidine	17.971	212	434442	5.14	ug/ml	98
49) Aramite A	17.450	185	25579	4.56	ug/ml#	83
50) Aramite B	17.530	185	70061	4.60	ug/ml#	68
51) p-Dimethylaminoazobenzene	17.616	120	283720	4.98	ug/ml	98
52) Chlorobenzilate	17.673	251	332738	4.62	ug/ml	96
53) Kepone	18.023	272	94085	5.66	ug/ml#	83
54) 2-Acetylaminofluorene	18.223	181	145702	4.36	ug/ml	97
56) 7,12-Dimethylbenz (a) ...	19.522	256	432116	4.37	ug/ml	97
57) 3-Methylcholanthrene	20.237	268	424737	4.35	ug/ml	95
58) Dibenz (a,j) acridine	20.952	279	553994	4.76	ug/ml#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

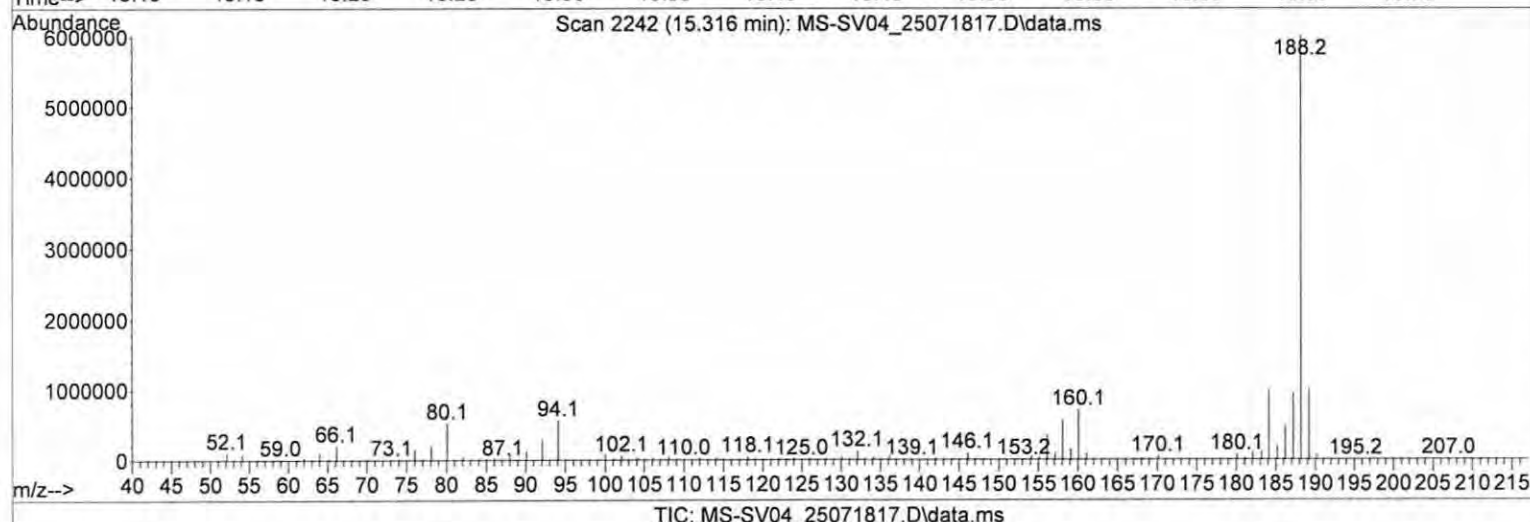
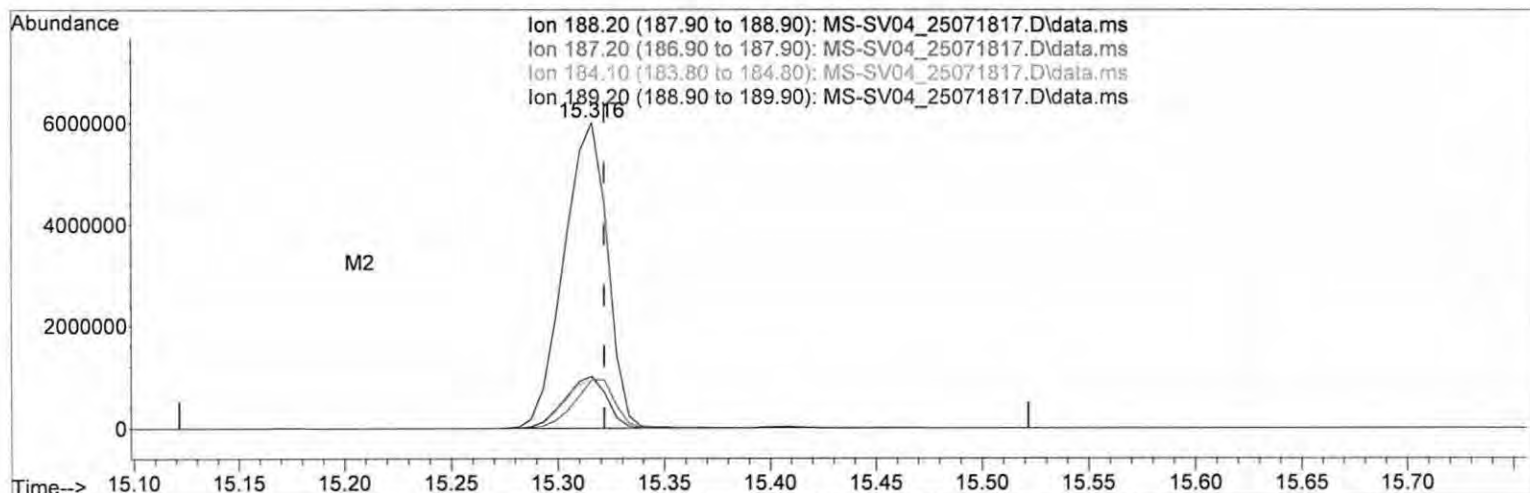
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(36) Phenanthrene-d10 (I)

15.316min (-0.006) 40.00 ug/ml

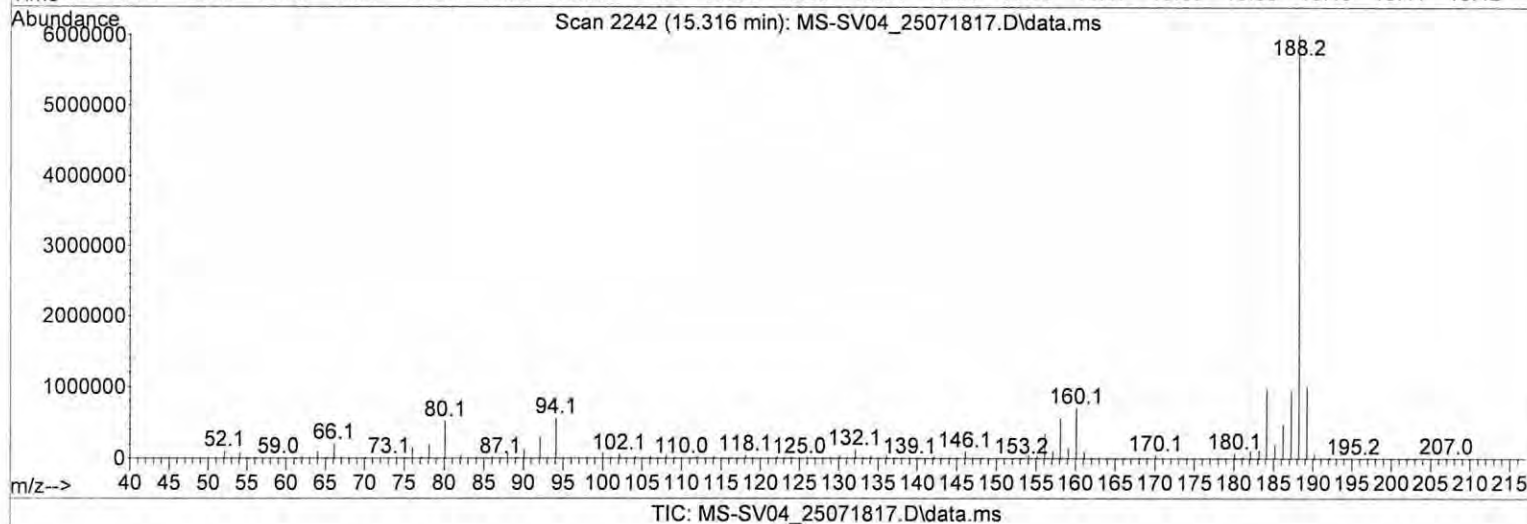
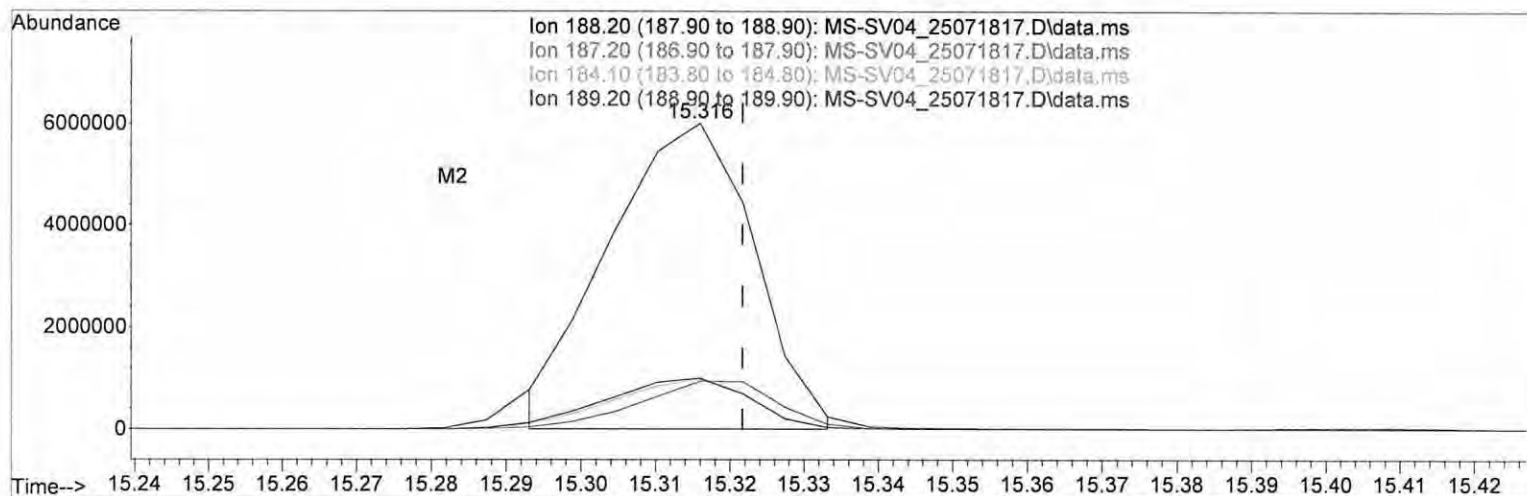
response 8471005

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.75#
184.10	14.80	15.45
189.20	16.40	16.34

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

192 of 521

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

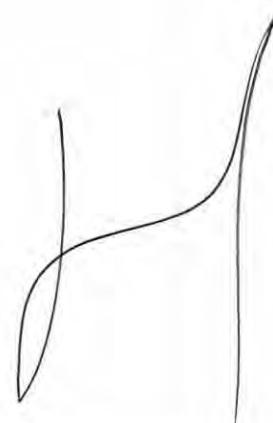


(36) Phenanthrene-d10 (I)

15.316min (-0.006) 40.00 ug/ml m

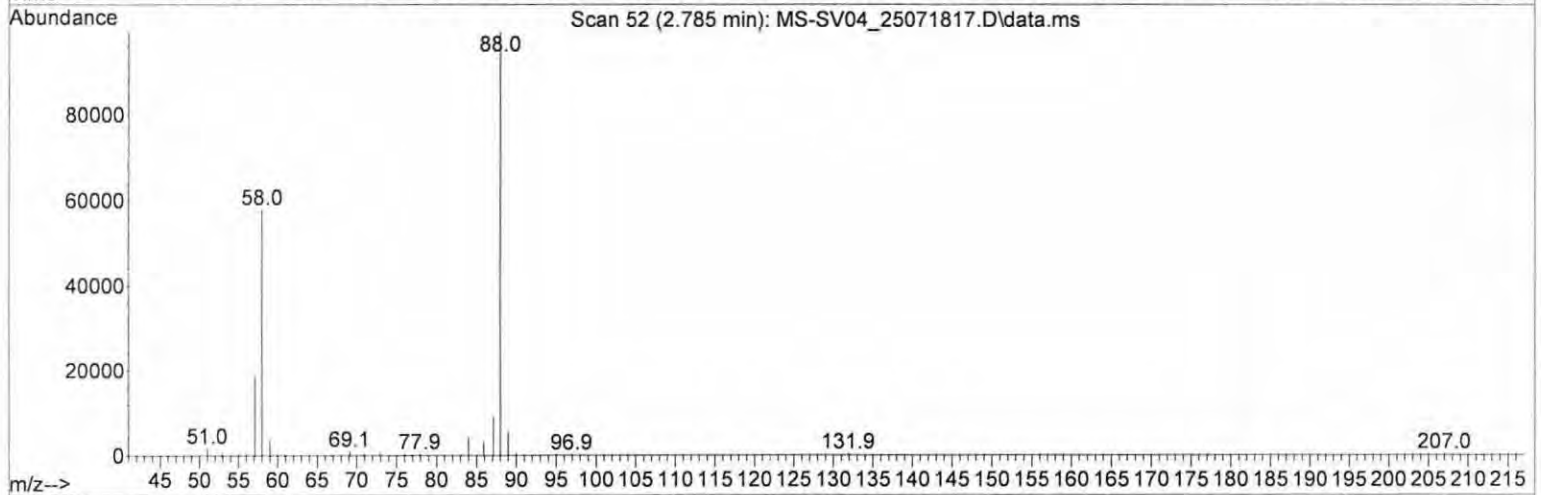
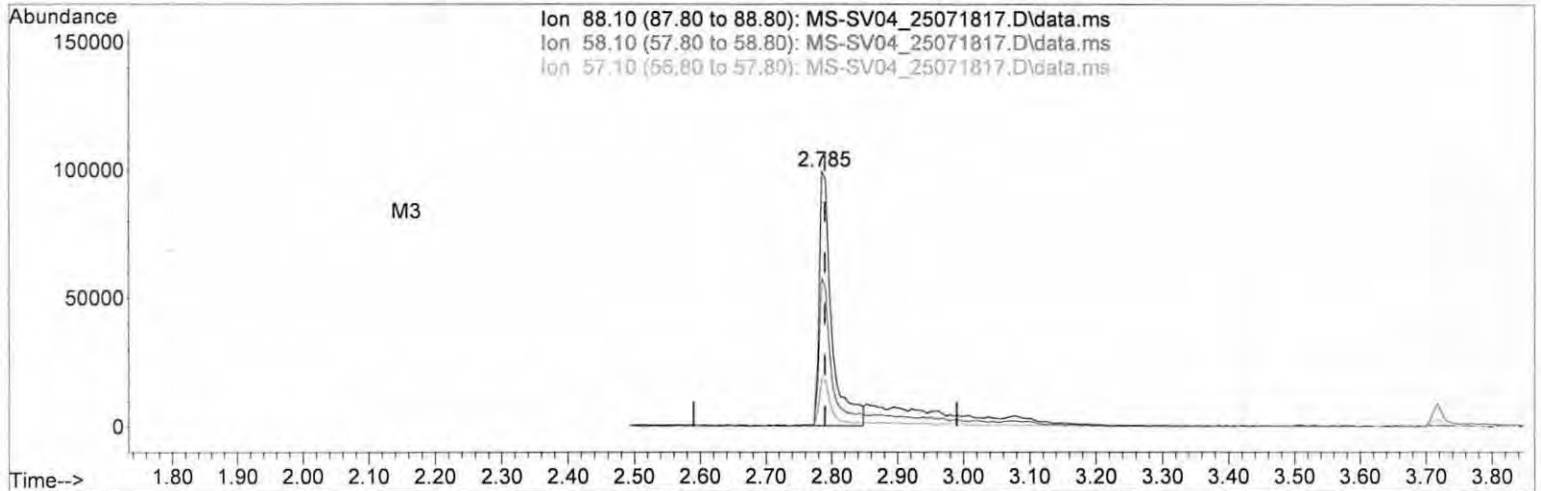
response 8098057

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	15.43#
184.10	14.80	16.17
189.20	16.40	17.09



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071817.D\data.ms

(2) 1,4-Dioxane (T)

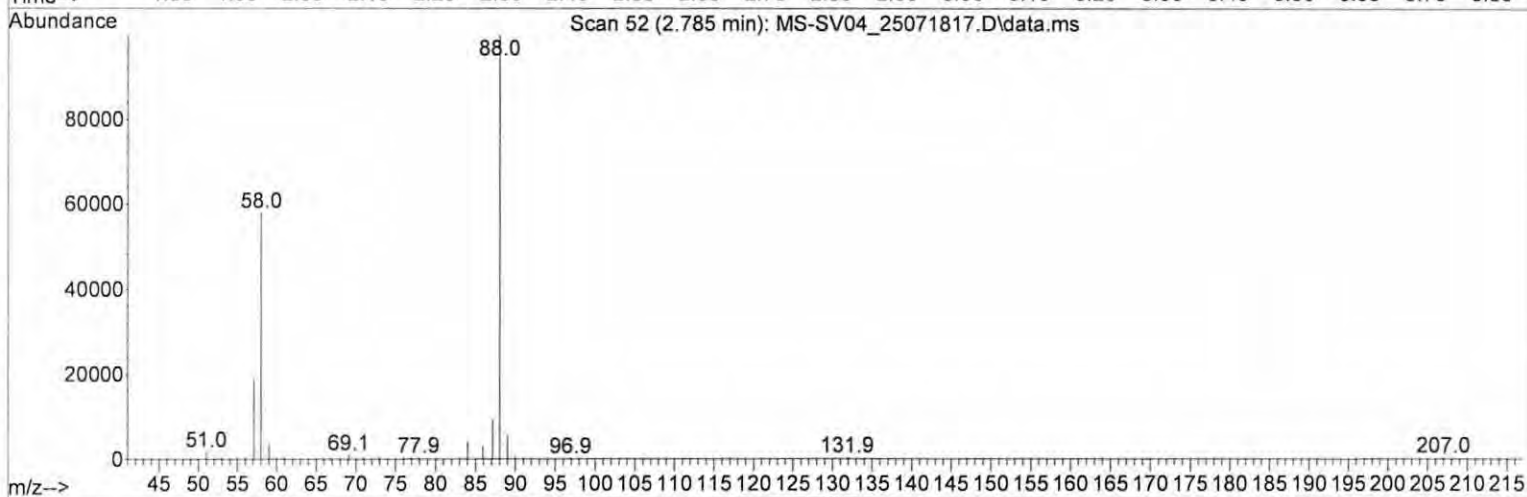
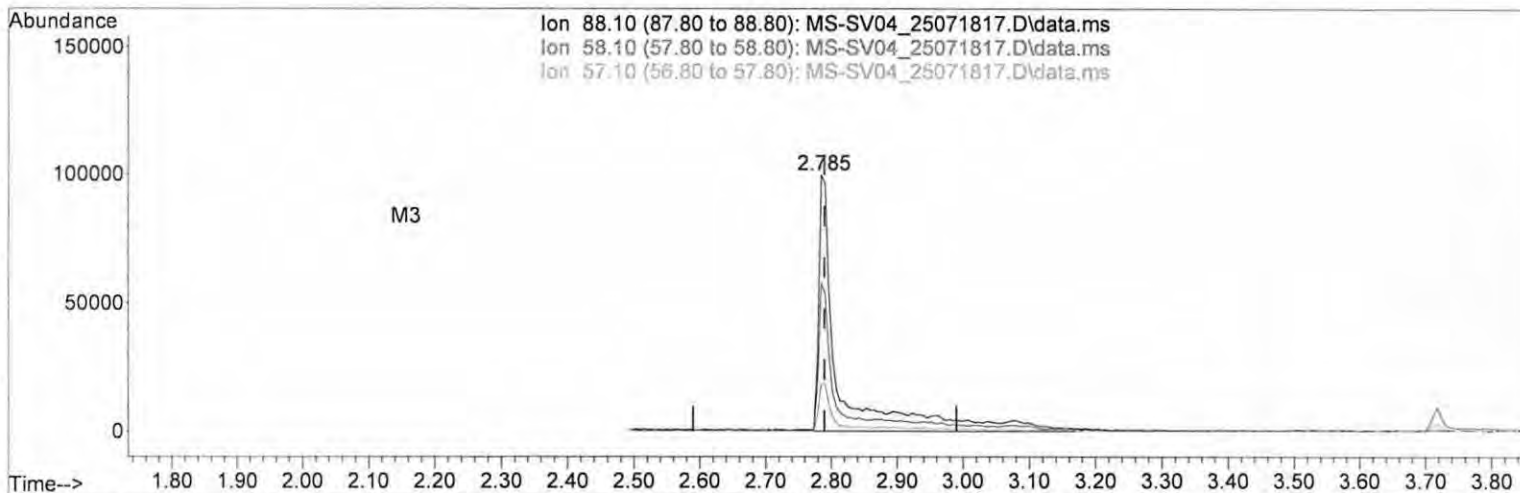
2.785min (-0.005) 4.59 ug/ml

response 132610

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	59.10#
57.10	37.00	18.53#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071817.D\data.ms

(2) 1,4-Dioxane (T)

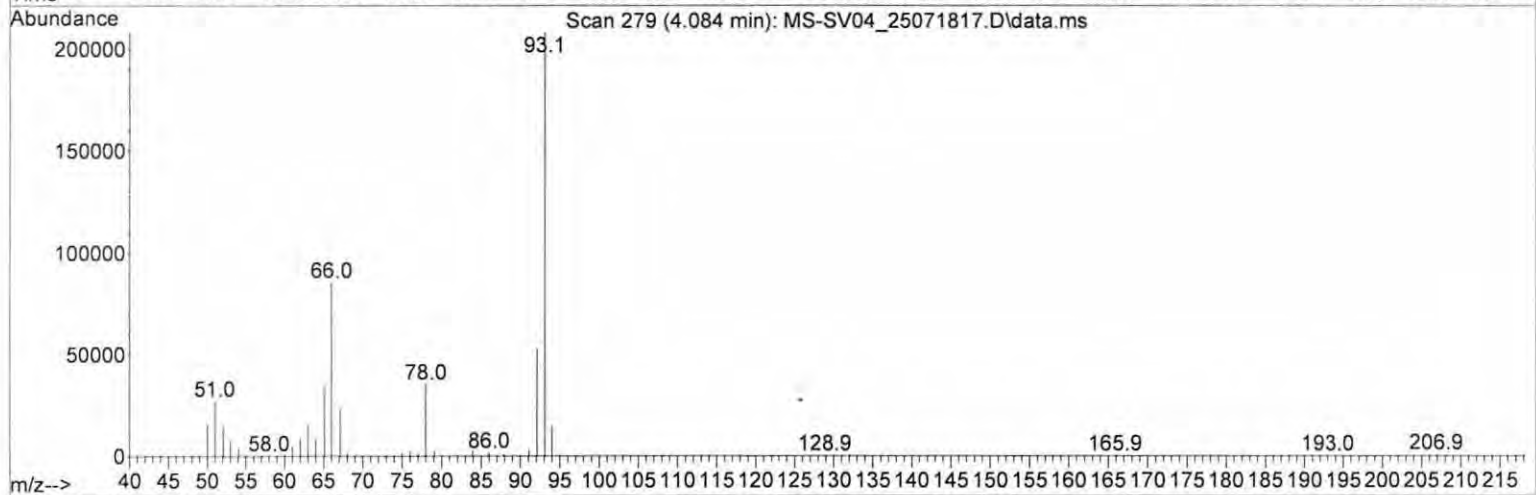
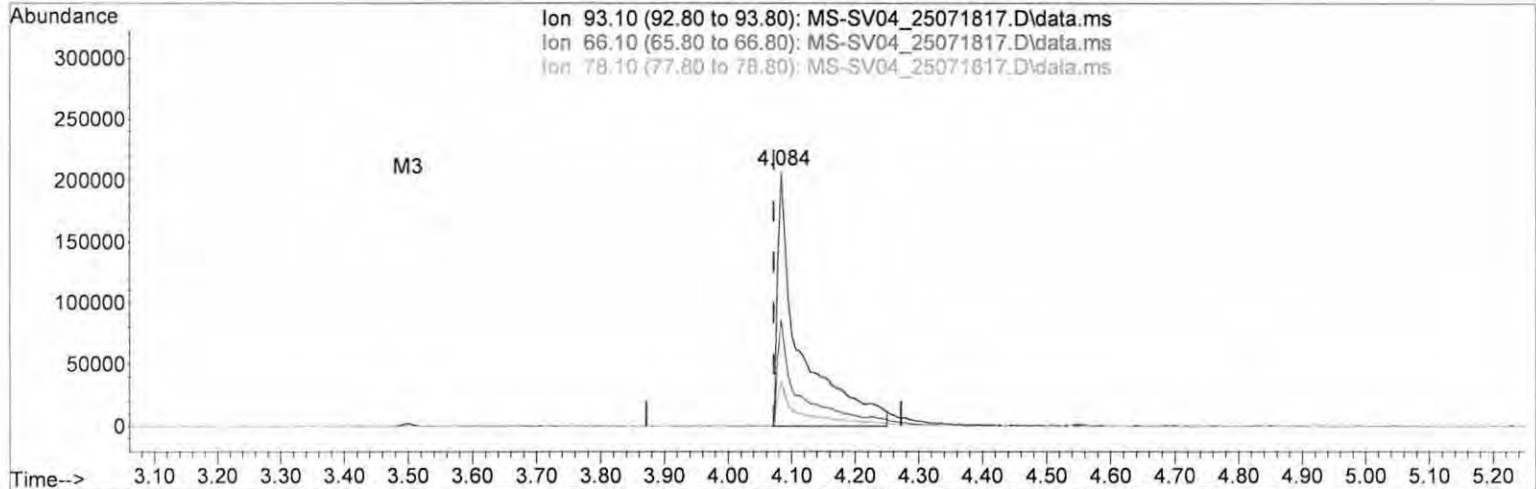
2.785min (-0.005) 7.62 ug/ml m

response 220136

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	35.60#
57.10	37.00	11.16#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071817.D\data.ms

(4) 2-Picoline (T)

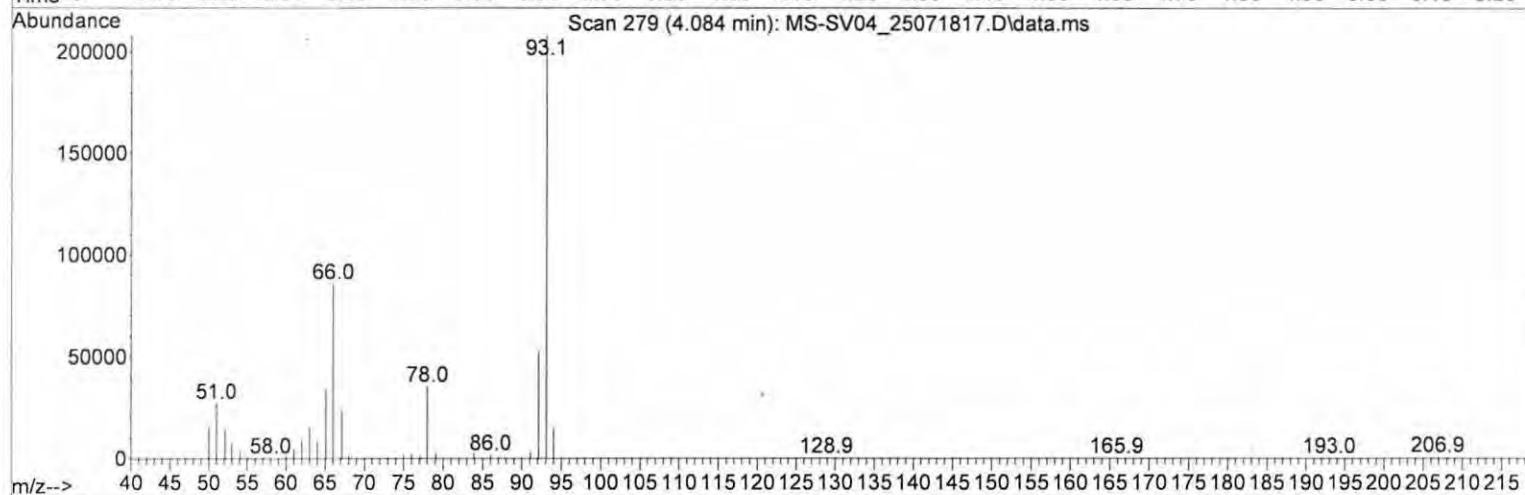
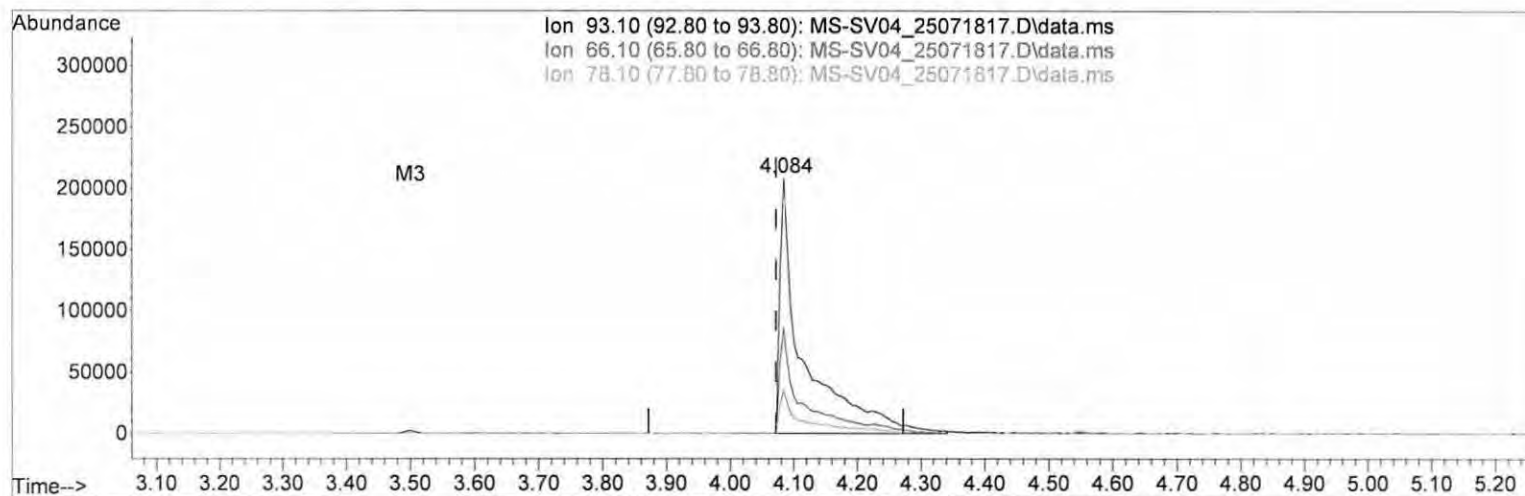
4.084min (+ 0.012) 5.62 ug/ml

response 510899

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	37.78
78.10	16.40	16.18
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071817.D\data.ms

(4) 2-Picoline (T)

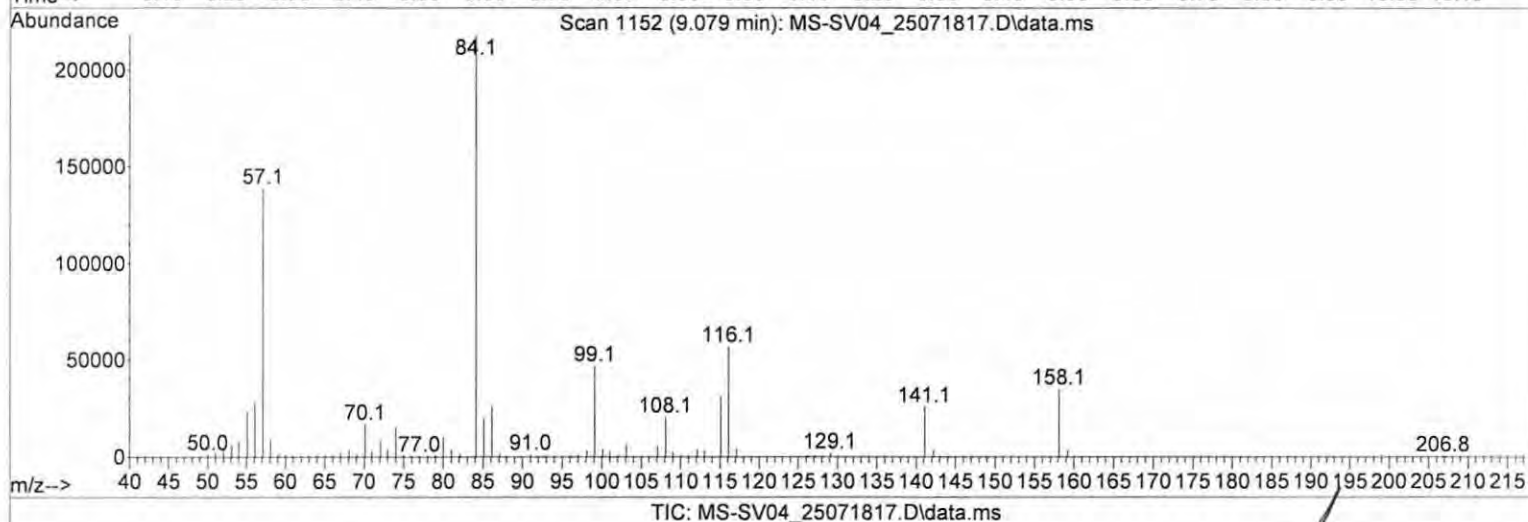
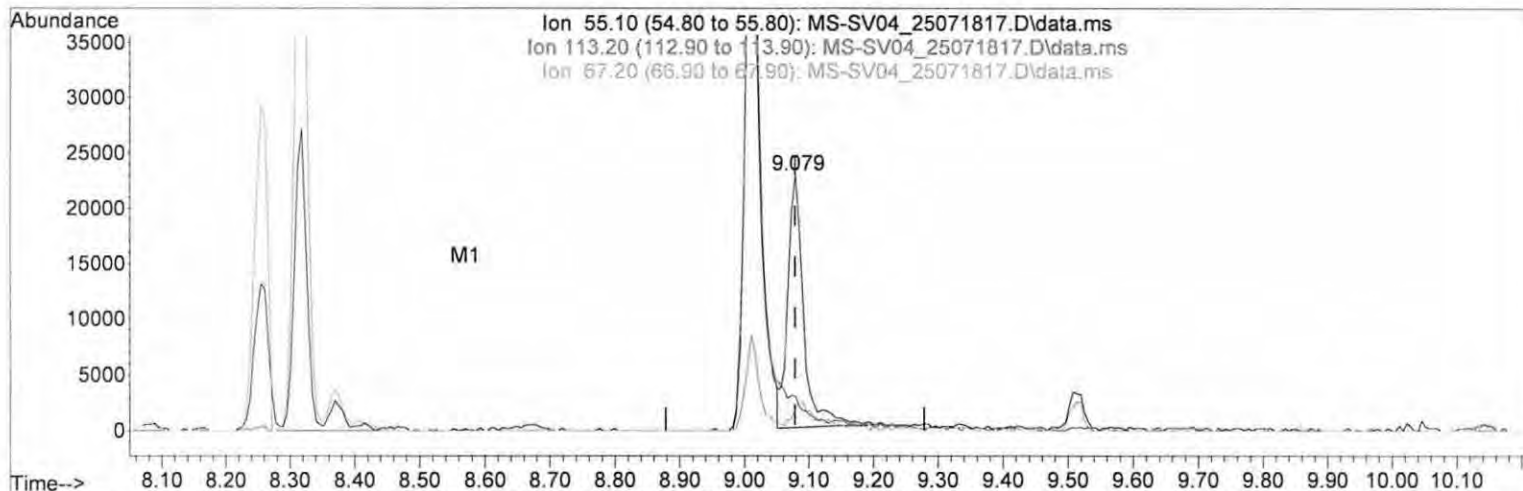
4.084min (+ 0.012) 5.91 ug/ml m

response 536740

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	35.96#
78.10	16.40	15.40
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(21) Caprolactam (T)

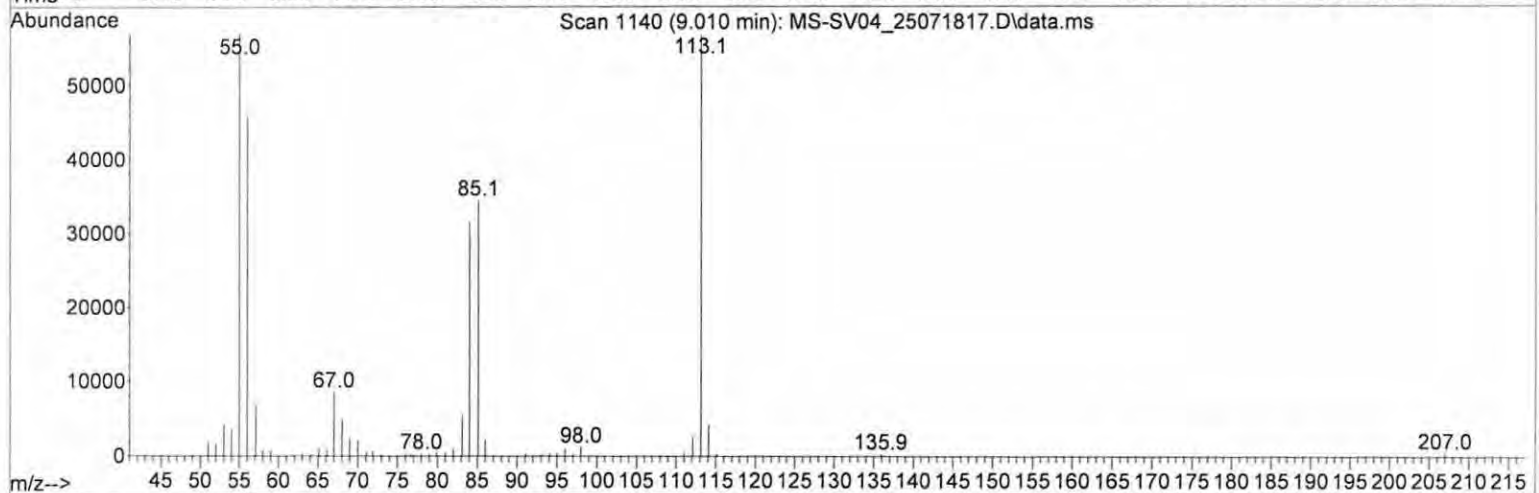
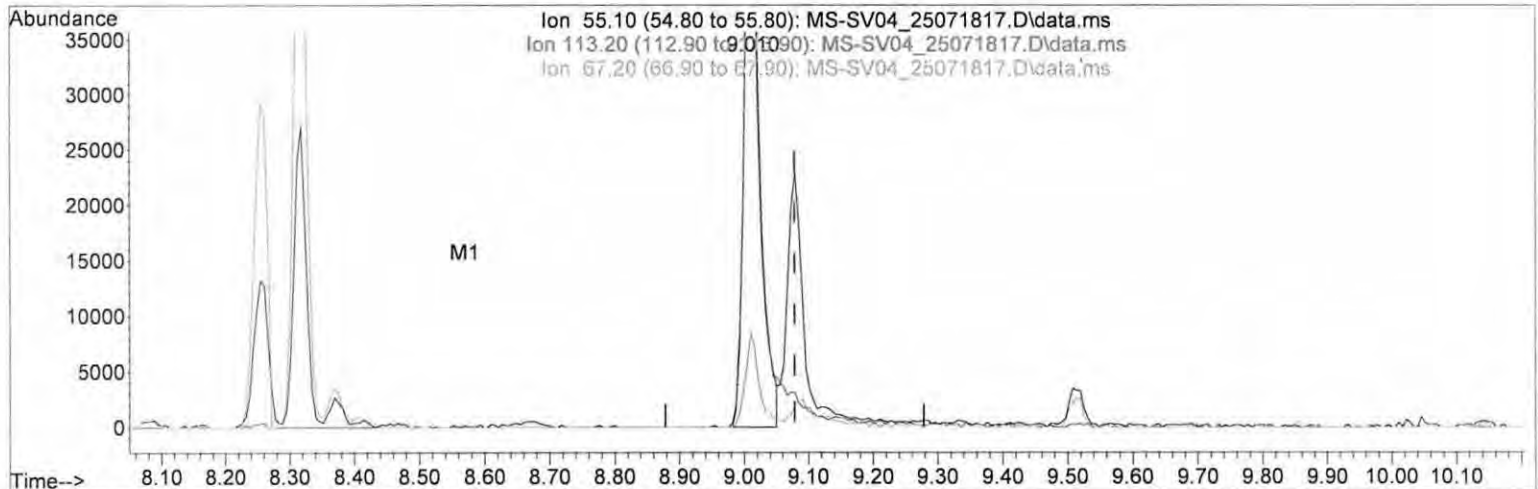
9.079min (-0.000) 3.01 ug/ml

response 39138

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	9.29#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071817.D
Acq On : 18 Jul 2025 10:00 pm
Operator : BMS
Sample : SEQ-CALA
Misc : APIX
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 11:22:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071817.D\data.ms

(21) Caprolactam (T)

9.010min (-0.069) 4.61 ug/ml m

response 85504

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	4.25#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071818.D
 Acq On : 18 Jul 2025 10:28 pm
 Operator : BMS
 Sample : SEQ-CALB
 Misc : APIX
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatiles Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	5186245	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.260	136	10351125	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	6230280	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.316	188	8259227m	40.00	ug/ml	0.00
48) Chrysene-d12	18.549	240	7184890	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	7745907	40.00	ug/ml	# 0.00
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.790	88	456622m	14.58	ug/ml	
3) Ethyl methacrylate	3.717	69	792894	10.85	ug/ml#	94
4) 2-Picoline	4.078	93	1047944	10.64	ug/ml	94
5) N-Nitrosomethylethylamine	4.221	88	463102	10.10	ug/ml#	74
6) Methyl methanesulfonate	4.547	80	571858	10.76	ug/ml#	92
7) N-Nitrosodiethylamine	4.987	102	505673	10.40	ug/ml#	57
8) Ethyl methanesulfonate	5.314	79	696223	10.44	ug/ml	97
9) Benzaldehyde	5.697	106	853616	11.14	ug/ml#	85
10) Pentachloroethane	5.869	167	464943	10.25	ug/ml	97
11) Acetophenone	6.778	105	1409607	10.70	ug/ml#	88
12) N-Nitrosomorpholine	6.801	56	465831	10.71	ug/ml#	49
13) N-Nitrosopyrrolidine	6.744	100	454376	10.12	ug/ml#	95
14) o-Toluidine	6.830	106	1513584	11.11	ug/ml	99
15) N-Nitrosopiperidine	7.282	114	502372	10.26	ug/ml#	56
16) Phentermine	7.974	58	1025609	9.23	ug/ml#	72
18) alpha Terpineol	8.318	59	508052	10.74	ug/ml#	35
19) 2,6-Dichlorophenol	8.409	162	722634	10.04	ug/ml	93
20) Hexachloropropene	8.466	213	419545	9.43	ug/ml	98
21) Caprolactam	9.021	55	229048m	9.00	ug/ml	
22) N-Nitrosodibutylamine	9.079	84	626409	9.61	ug/ml#	53
23) 1,4-Phenylenediamine	9.090	108	537107	10.62	ug/ml#	47
24) Isosafrole	9.514	162	835967	10.41	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.034	216	1082094	10.40	ug/ml	99
27) Safrole	10.641	162	804242	10.36	ug/ml	94
28) Biphenyl	10.704	154	2421549	10.99	ug/ml	99
29) 1-Chloronaphthalene	10.767	162	1866406	10.61	ug/ml#	98
30) Diphenyl ether	10.944	170	1376918	10.67	ug/ml	95
31) 1,4-Naphthoquinone	11.127	158	621261	11.81	ug/ml	89
32) Pentachlorobenzene	12.363	250	941549	10.16	ug/ml	100
33) 1-Naphthylamine	12.638	143	1513840	11.11	ug/ml	96
34) 2-Naphthylamine	12.827	115	619303	10.31	ug/ml	94
35) 5-Nitro-o-toluidine	13.307	152	421111	10.00	ug/ml	91
37) Diallate	14.314	86	629639	12.11	ug/ml	98
38) 1,3,5-Trinitrobenzene	14.286	75	200334	9.37	ug/ml	98
39) Phenacetin	14.383	108	627630	10.59	ug/ml	96
40) Atrazine	14.887	200	608483	11.47	ug/ml#	74
41) 4-Aminobiphenyl	15.007	169	1694407	12.71	ug/ml	97
42) Pentachloronitrobenzene	15.001	237	274590	11.47	ug/ml	94
43) Pronamide	15.173	173	898853	11.62	ug/ml#	92
44) 4-Nitroquinoline-N-oxide	16.517	190	34509m	6.52	ug/ml	
45) Methapyrilene	16.638	58	838703	12.85	ug/ml#	56

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

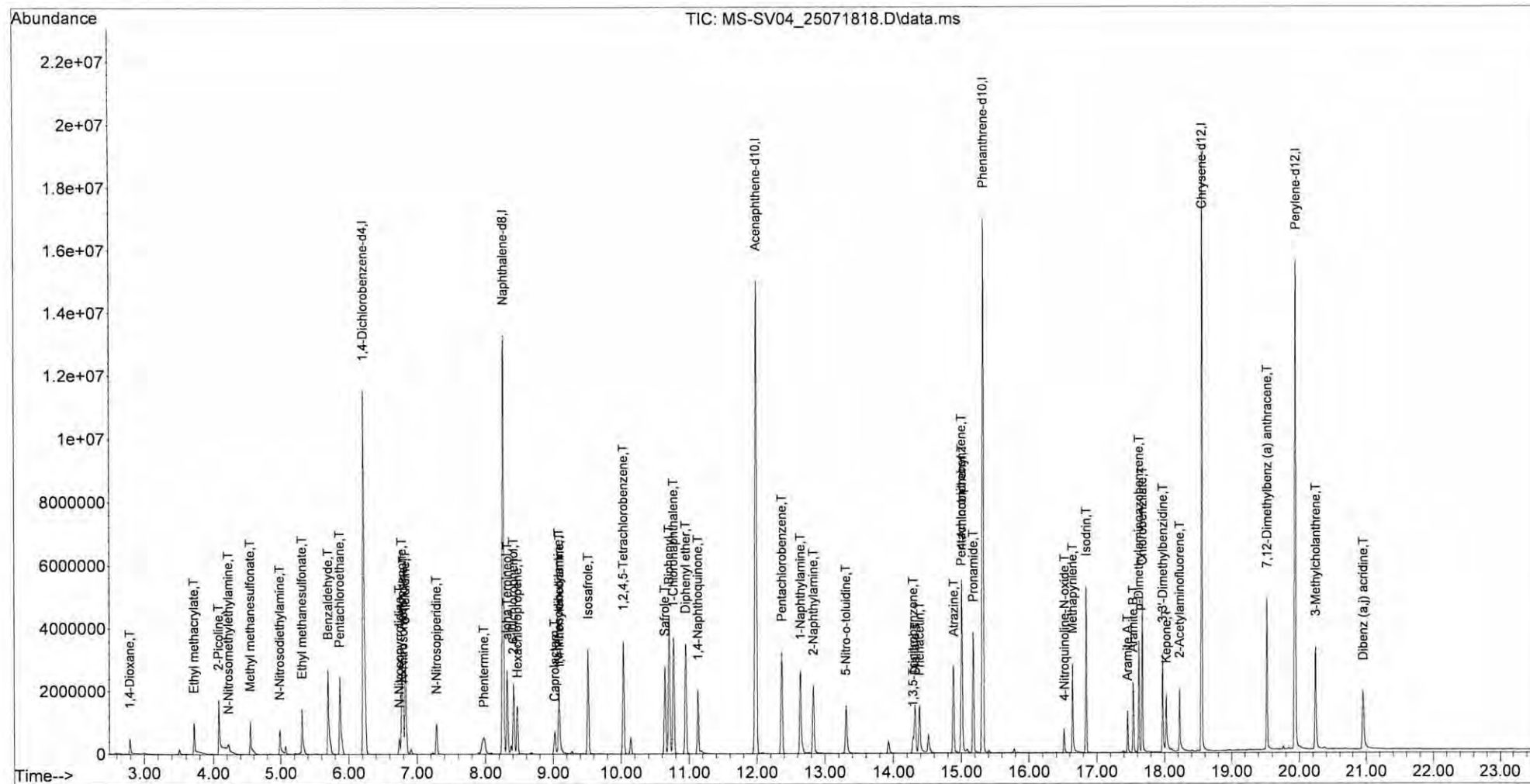
Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.838	193	401734	12.11	ug/ml	95
47) 3,3'-Dimethylbenzidine	17.971	212	1213676	14.09	ug/ml	98
49) Aramite A	17.450	185	80818m	8.93	ug/ml	
50) Aramite B	17.530	185	201503	9.64	ug/ml#	71
51) p-Dimethylaminoazobenzene	17.616	120	699082	10.92	ug/ml	96
52) Chlorobenzilate	17.668	251	851230	10.52	ug/ml	99
53) Kepone	18.022	272	222642	11.93	ug/ml#	85
54) 2-Acetylaminofluorene	18.223	181	544223	8.76	ug/ml	99
56) 7,12-Dimethylbenz (a) ...	19.521	256	1099794	10.03	ug/ml	97
57) 3-Methylcholanthrene	20.237	268	1034700	9.56	ug/ml	95
58) Dibenz (a,j) acridine	20.952	279	1365556	9.65	ug/ml#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

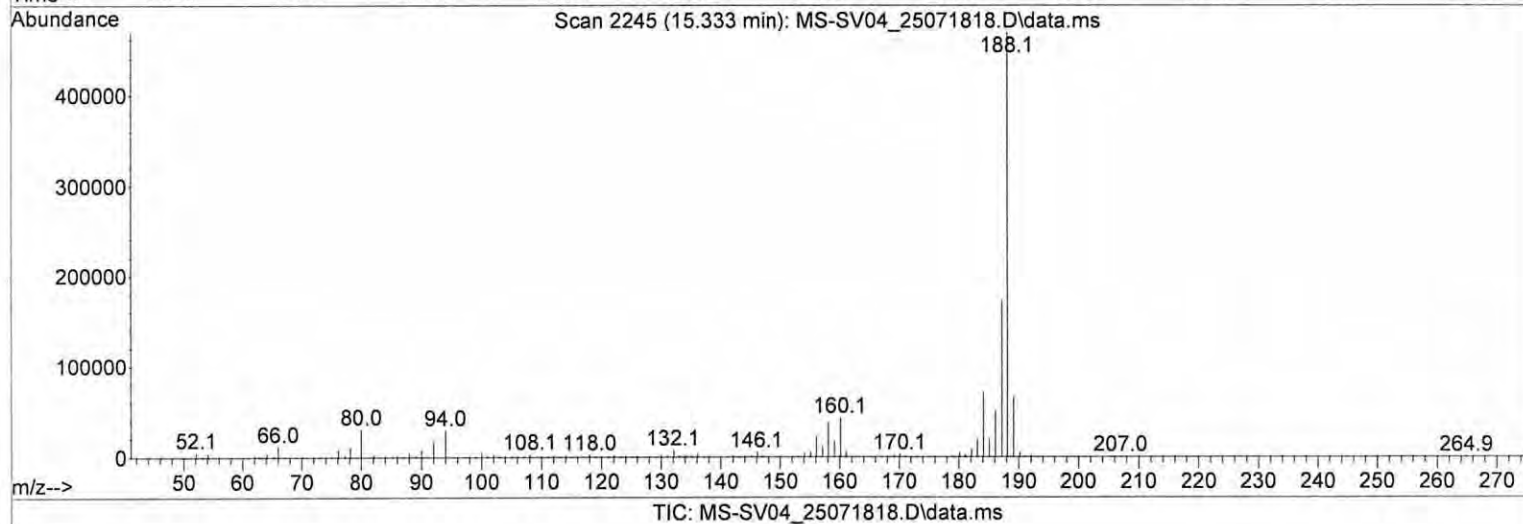
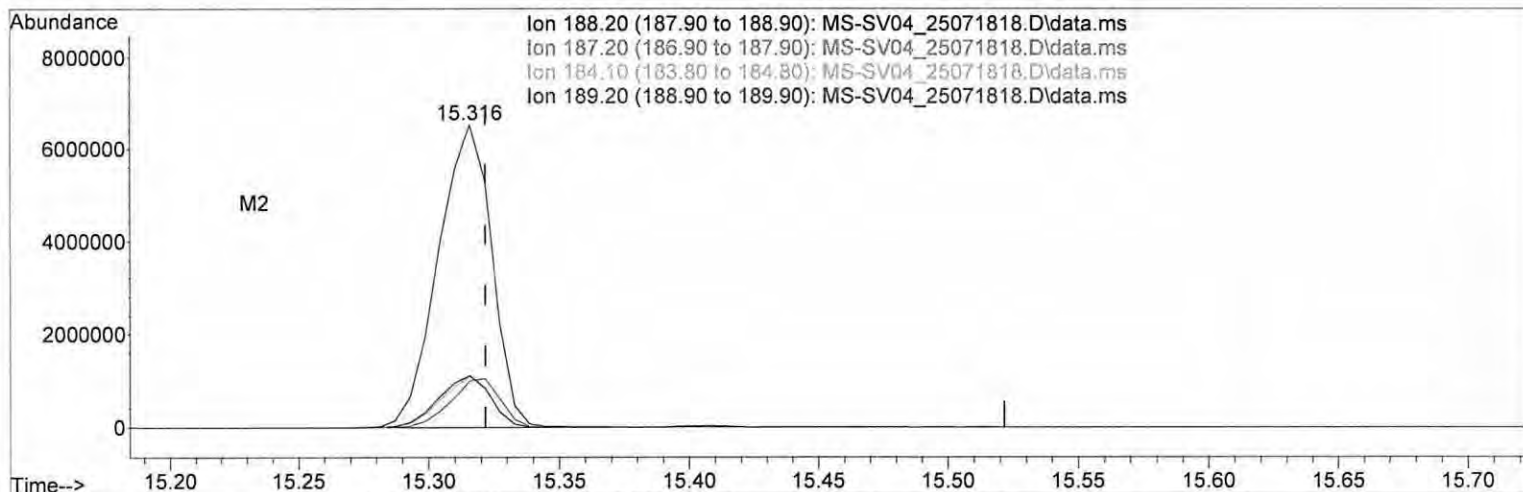
Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

202 of 521

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(36) Phenanthrene-d10 (I)

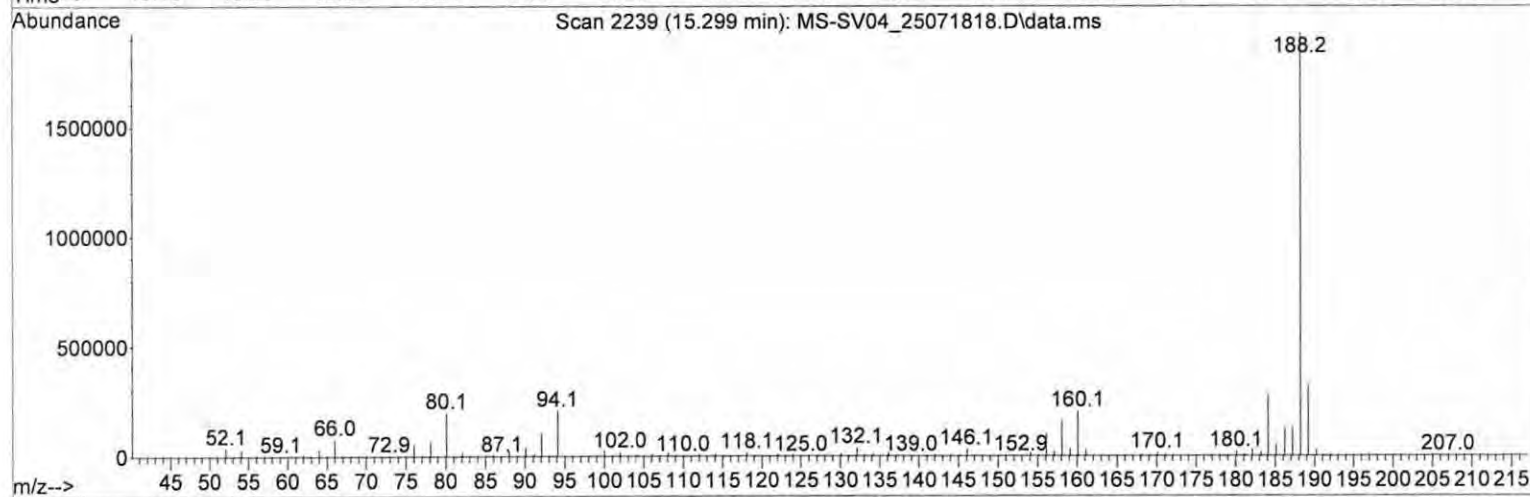
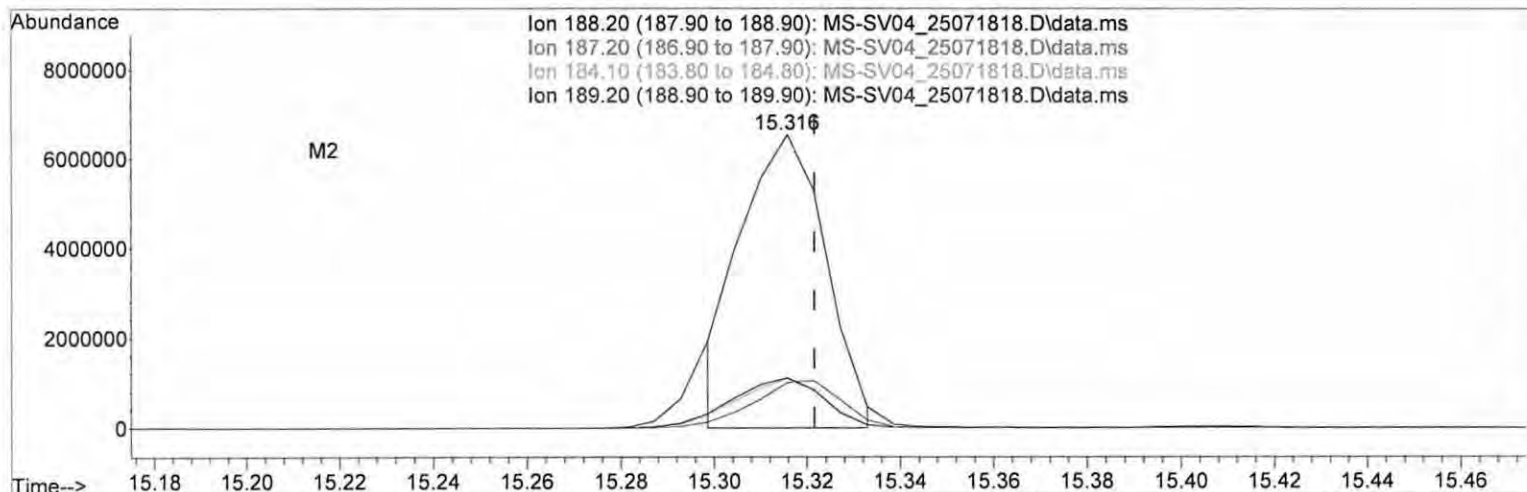
15.316min (-0.006) 40.00 ug/ml

response 9258048

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.98#
184.10	14.80	15.64
189.20	16.40	16.48

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(36) Phenanthrene-d10 (I)

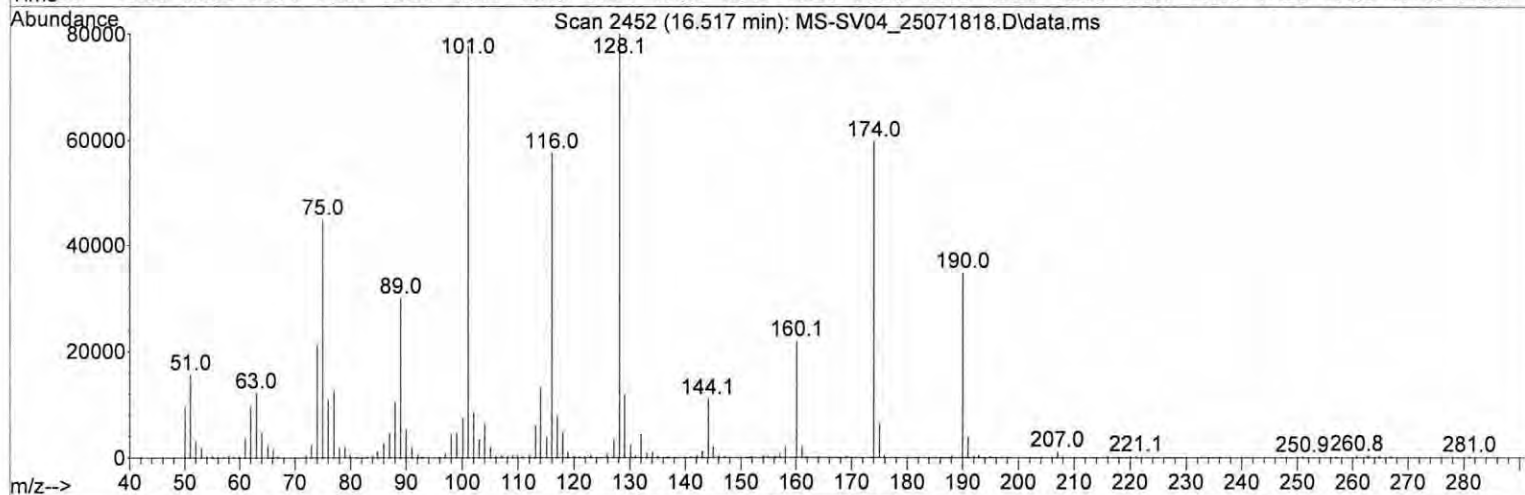
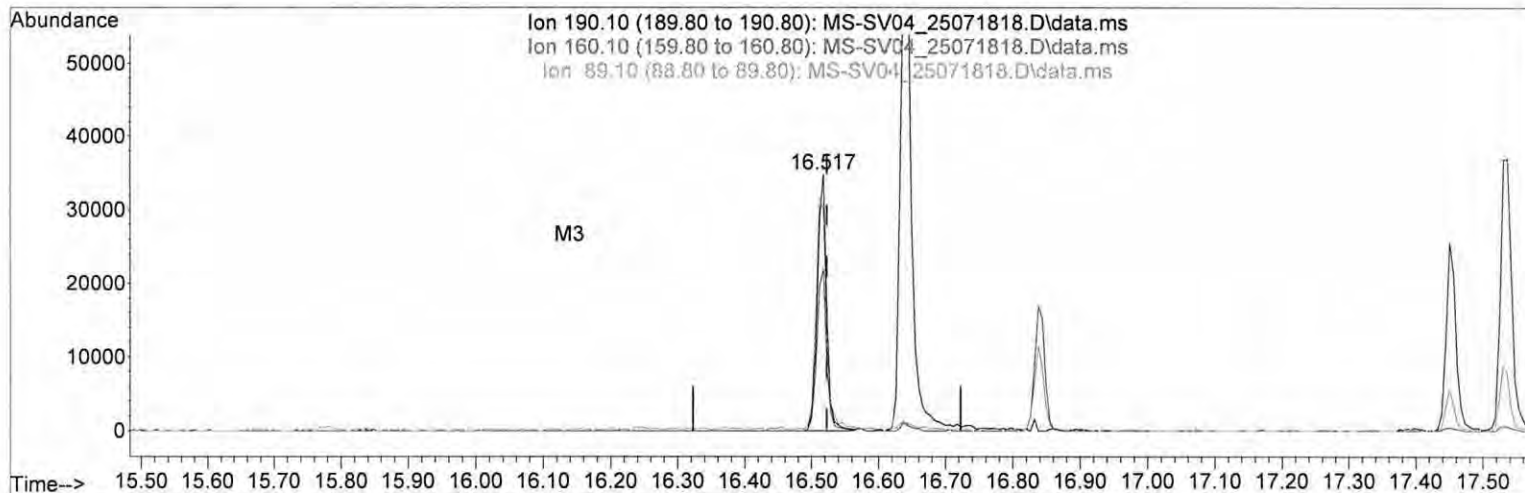
15.316min (-0.006) 40.00 ug/ml m

response 8259227

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	16.79#
184.10	14.80	17.53
189.20	16.40	18.47

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

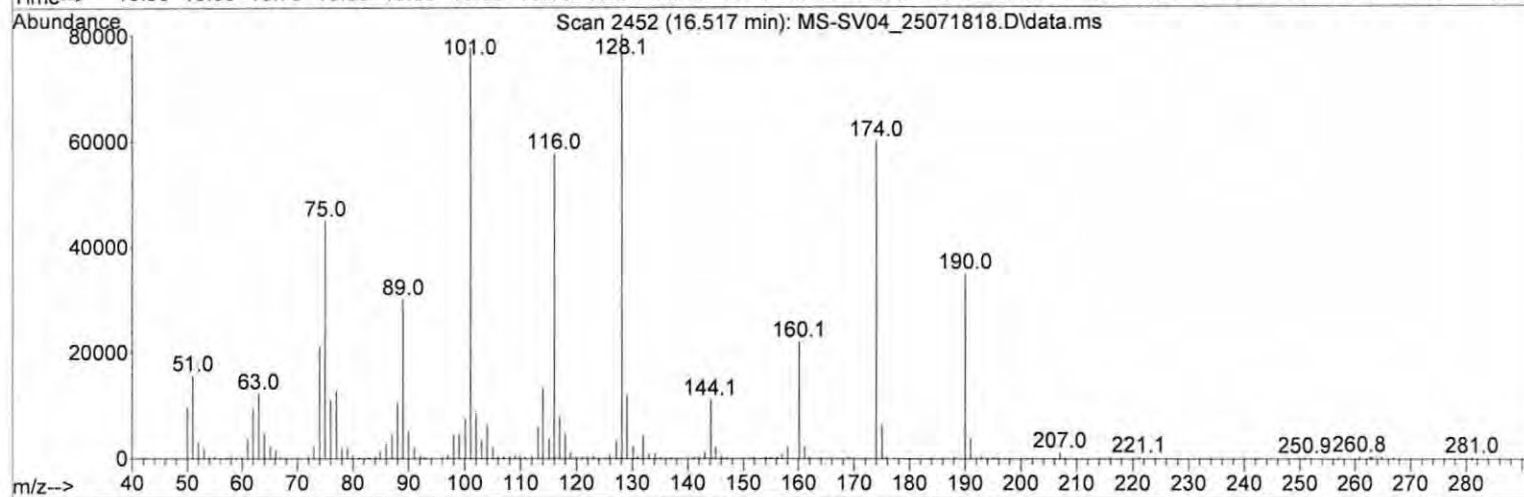
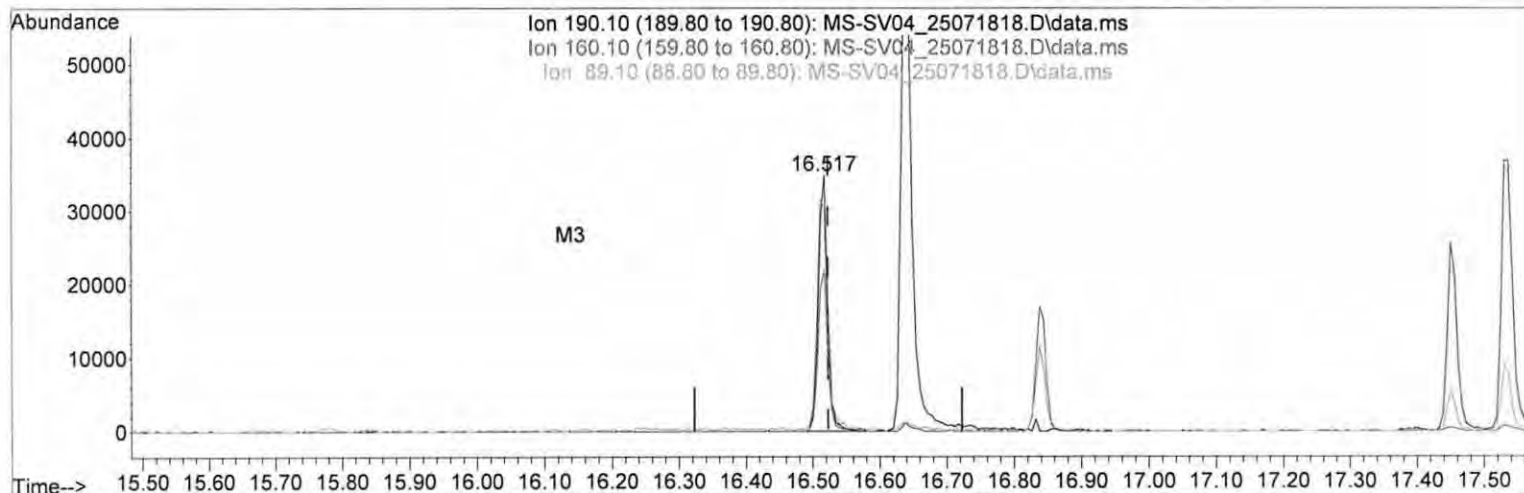
16.517min (-0.006) 6.31 ug/ml

response 34262

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	64.90
89.10	52.80	101.91#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

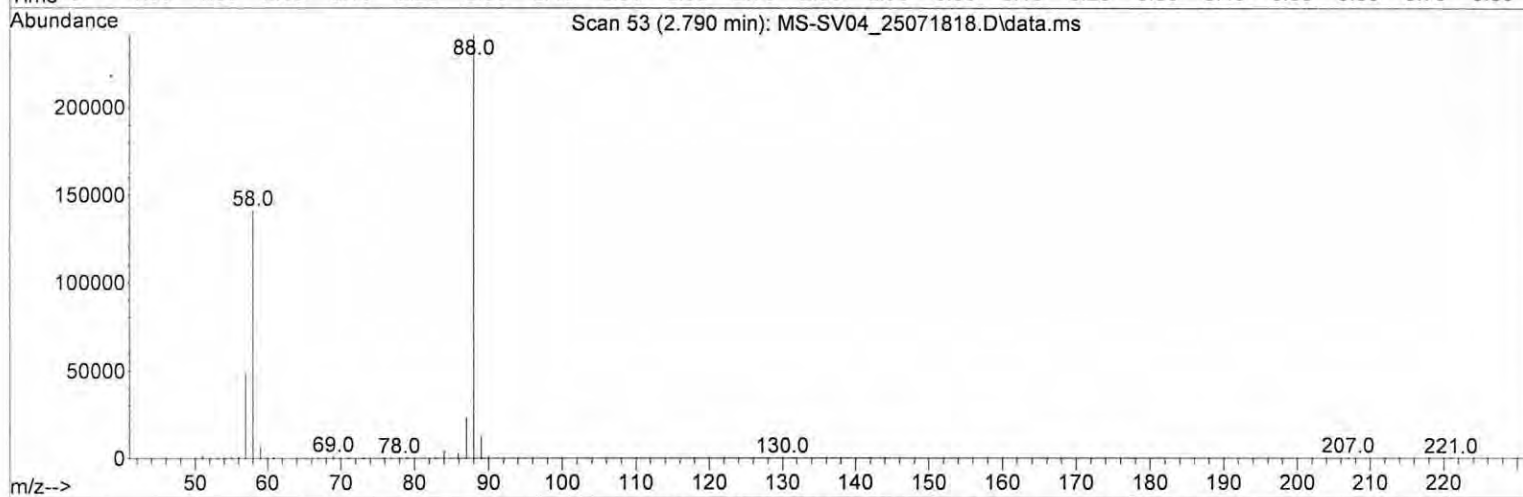
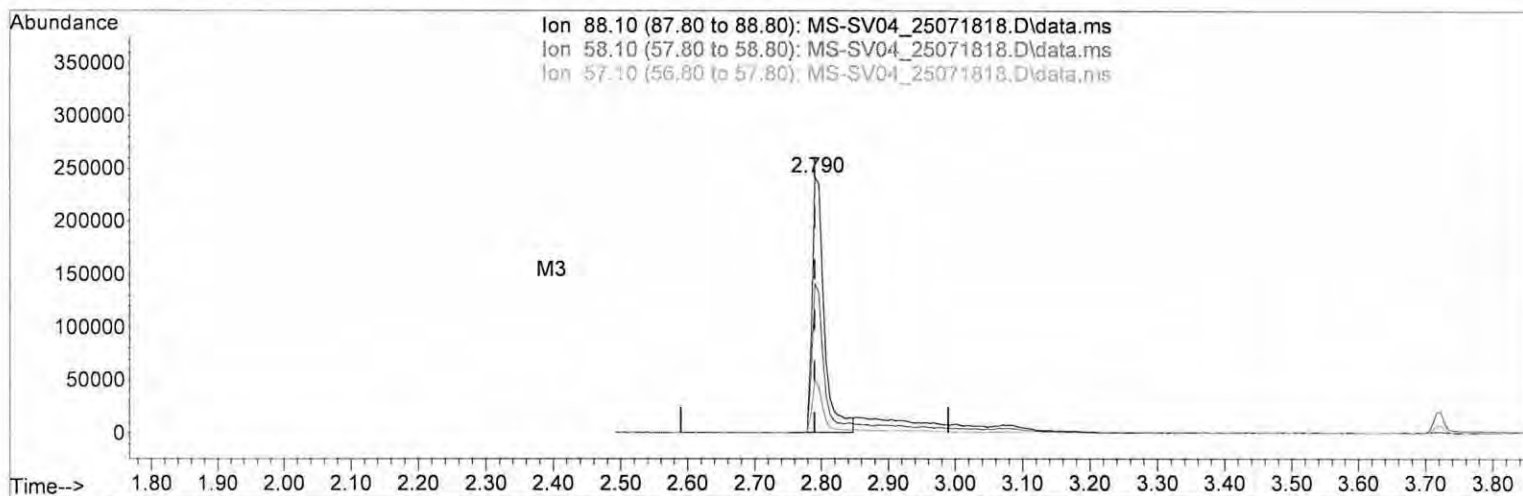
16.517min (-0.006) 6.32 ug/ml m

response 34509

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	64.44
89.10	52.80	101.19#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(2) 1,4-Dioxane (T)

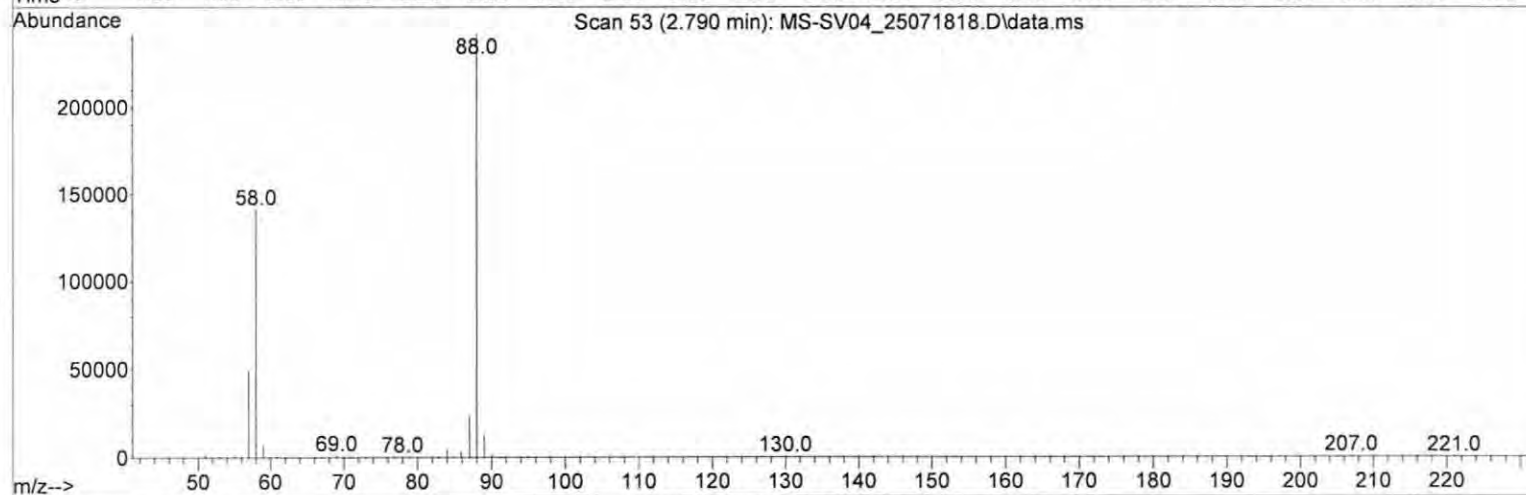
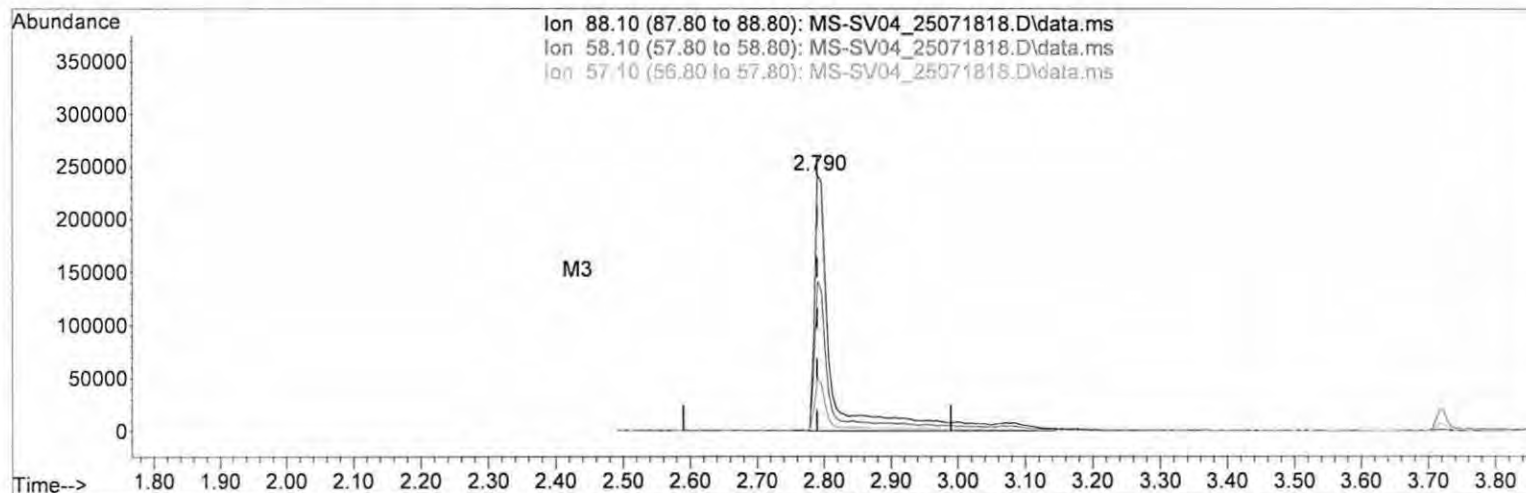
2.790min (+ 0.000) 9.76 ug/ml

response 305503

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.29#
57.10	37.00	19.17#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(2) 1,4-Dioxane (T)

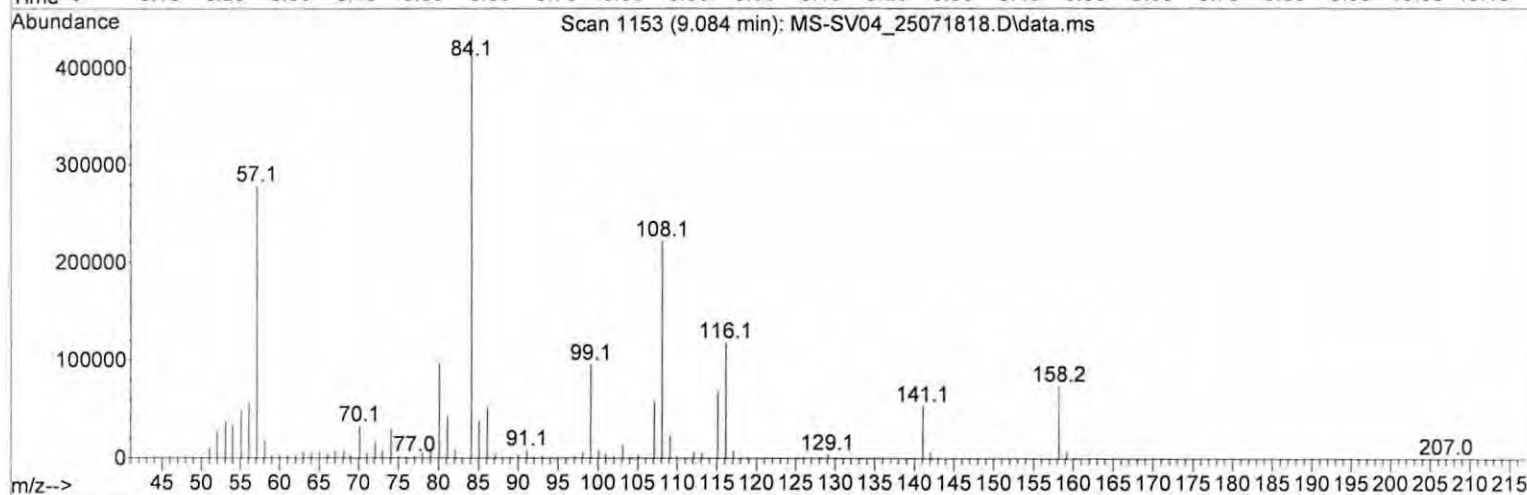
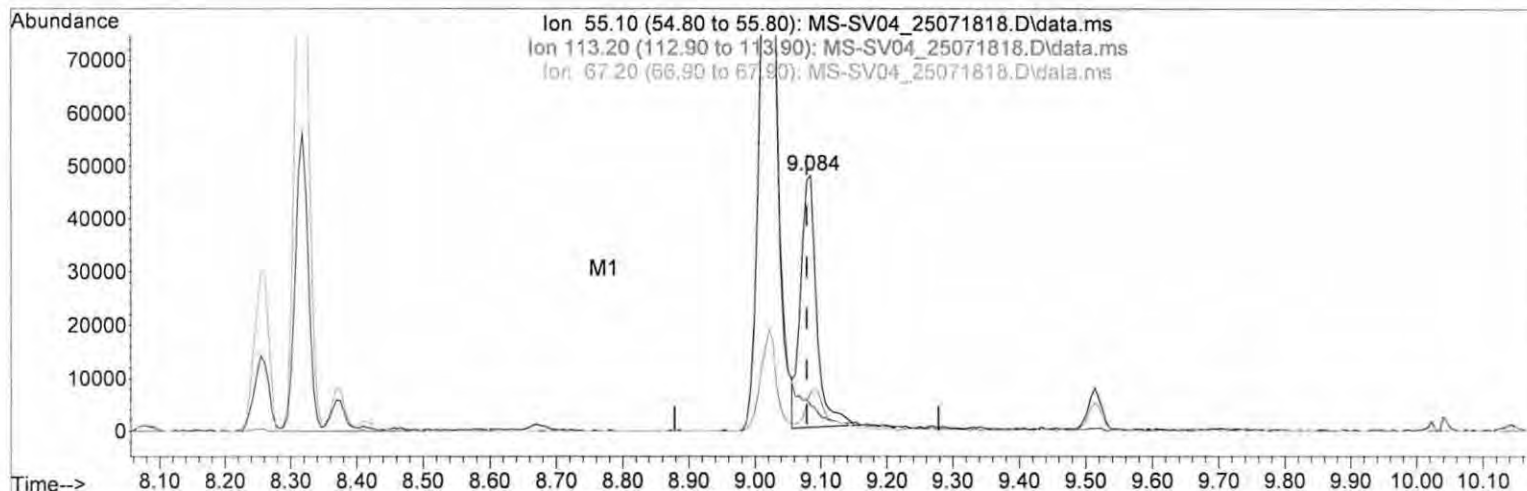
2.790min (+ 0.000) 14.58 ug/ml m

response 456622

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	36.99#
57.10	37.00	12.82#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(21) Caprolactam (T)

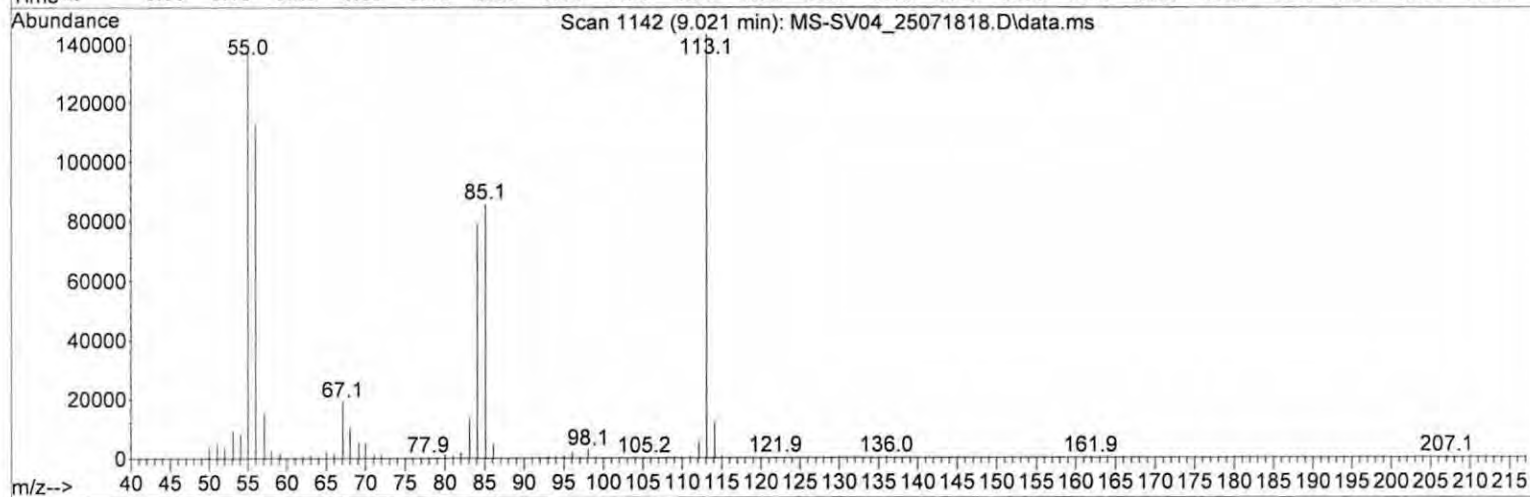
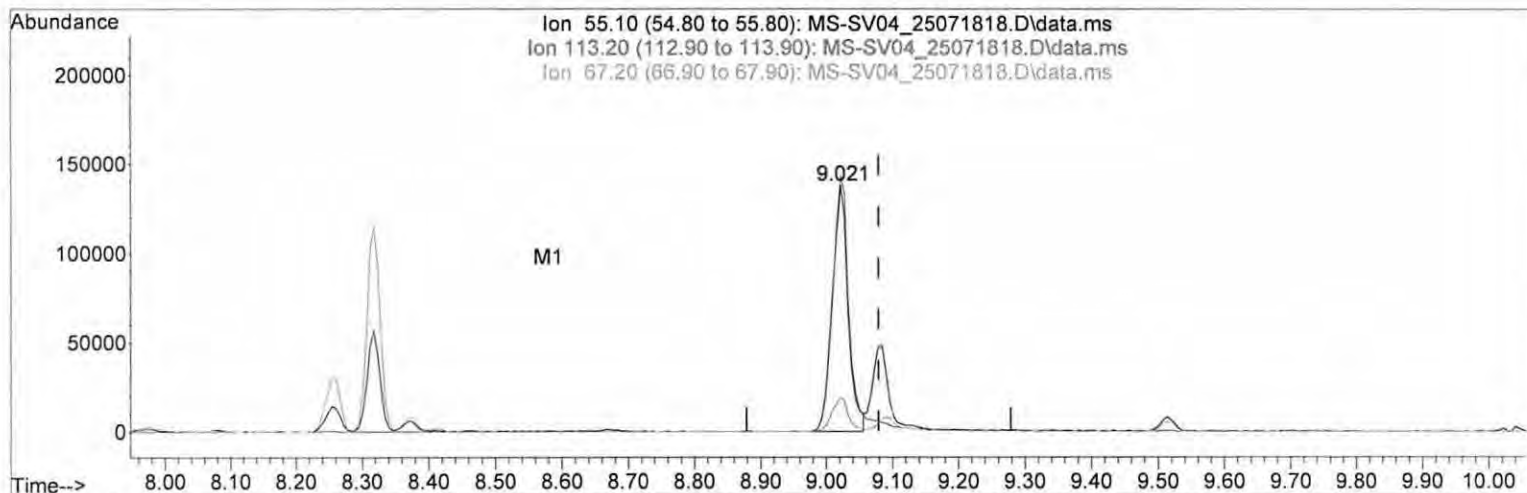
9.084min (+ 0.005) 4.24 ug/ml

response 80547

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	19.34#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(21) Caprolactam (T)

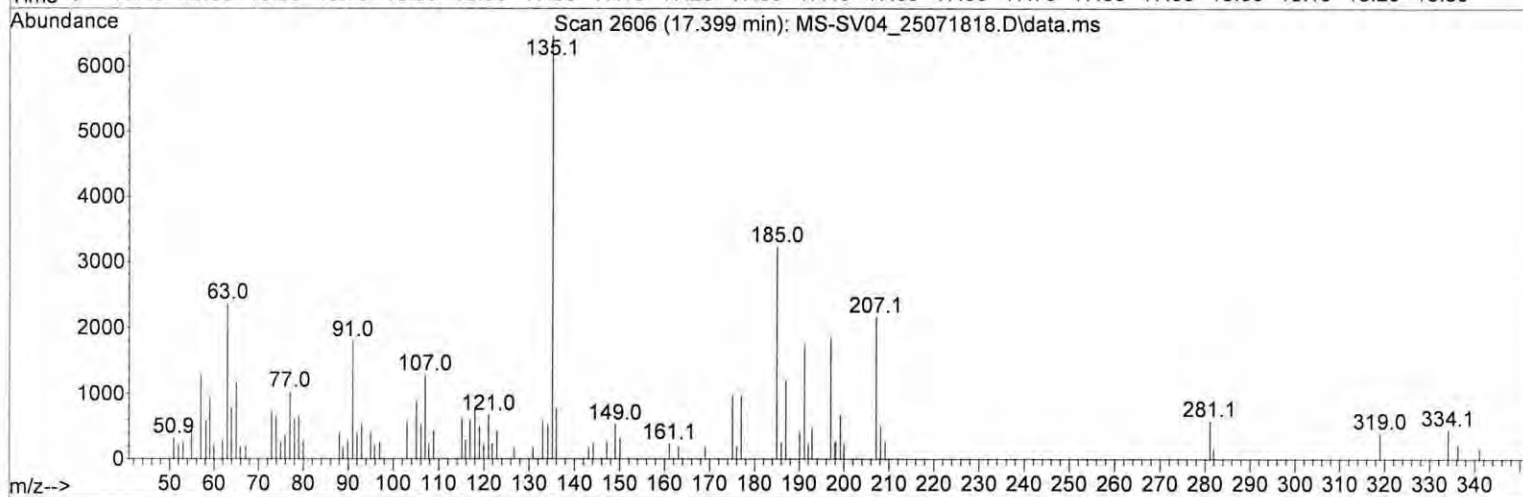
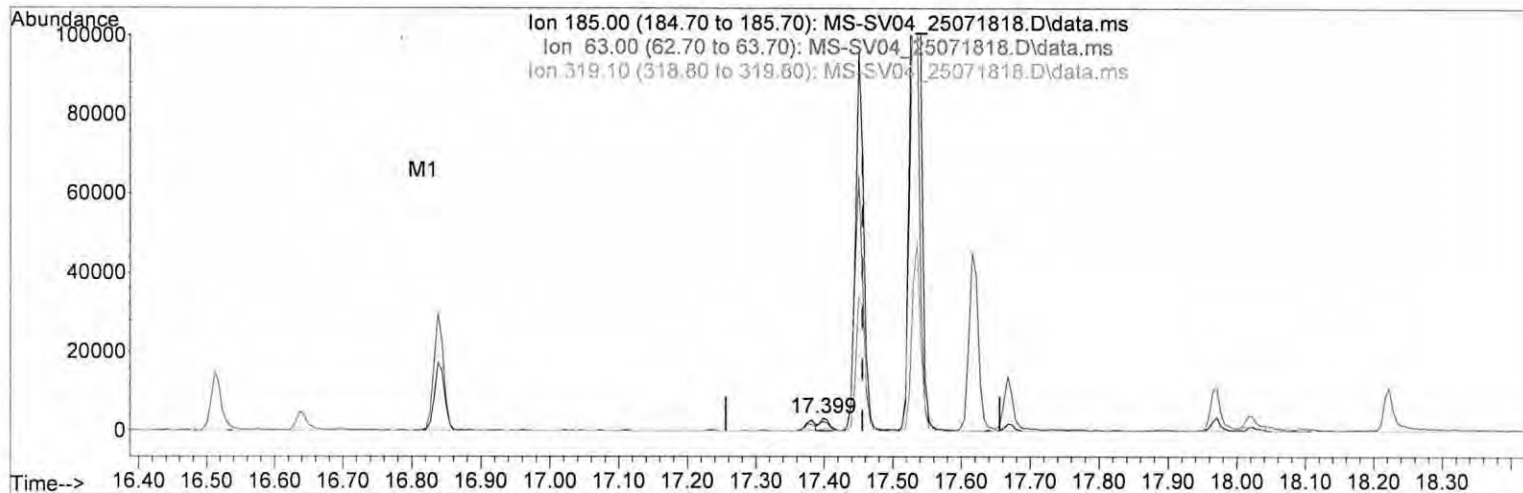
9.021min (-0.058) 9.00 ug/ml m

response 229048

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	6.80
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(49) Aramite A (T)

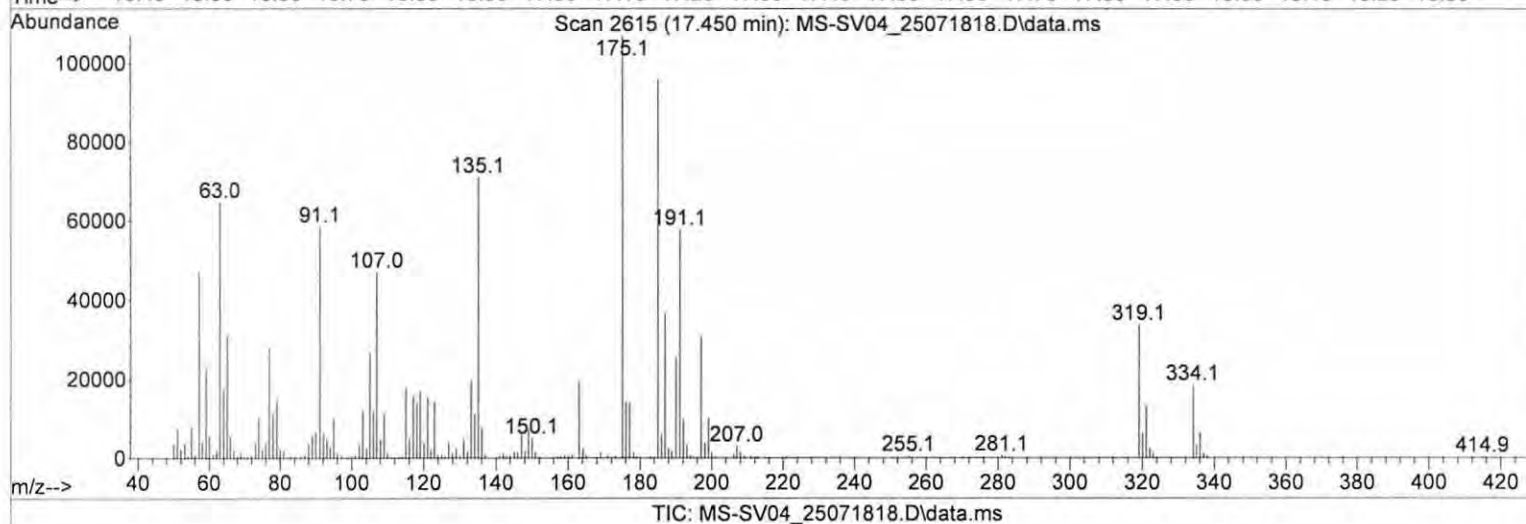
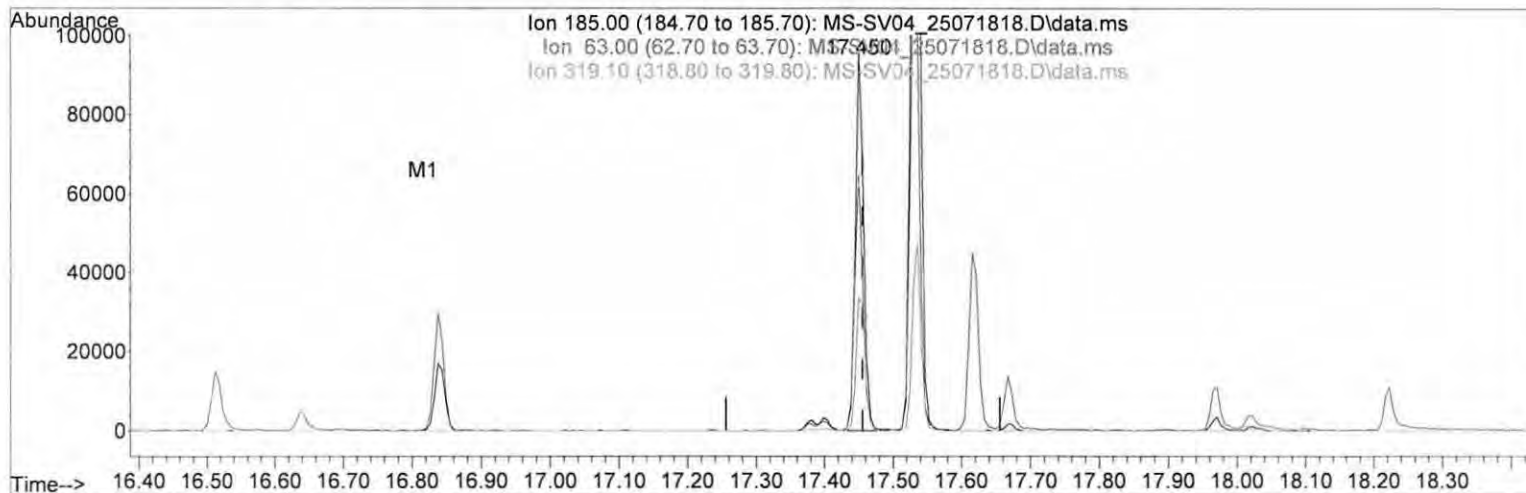
17.399min (-0.057) 2.40 ug/ml

response 3100

Ion	Exp%	Act%
185.00	100.00	100.00
63.00	90.80	76.29
319.10	26.40	22.19
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071818.D
Acq On : 18 Jul 2025 10:28 pm
Operator : BMS
Sample : SEQ-CALB
Misc : APIX
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 11:22:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071818.D\data.ms

(49) Aramite A (T)

17.450min (-0.006) 8.93 ug/ml m

response 80818

Ion	Exp%	Act%
185.00	100.00	100.00
63.00	90.80	2.93#
319.10	26.40	0.85#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071819.D
 Acq On : 18 Jul 2025 10:57 pm
 Operator : BMS
 Sample : SEQ-CALC
 Misc : APIX
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatiles Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4960355	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	9801219	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	5964974	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.316	188	8752117m	40.00	ug/ml	0.00
48) Chrysene-d12	18.549	240	6801105	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	7401168	40.00	ug/ml	# 0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.785	88	778269m	25.99 ug/ml	
3) Ethyl methacrylate	3.717	69	1465954	20.98 ug/ml	99
4) 2-Picoline	4.072	93	1941010	20.61 ug/ml	95
5) N-Nitrosomethylethylamine	4.221	88	876266	19.98 ug/ml#	76
6) Methyl methanesulfonate	4.553	80	1043175	20.53 ug/ml#	92
7) N-Nitrosodiethylamine	4.988	102	936078	20.13 ug/ml#	56
8) Ethyl methanesulfonate	5.320	79	1276976	20.02 ug/ml	97
9) Benzaldehyde	5.697	106	1543738	21.06 ug/ml#	85
10) Pentachloroethane	5.869	167	876916	20.21 ug/ml	96
11) Acetophenone	6.785	105	2542187	20.18 ug/ml#	88
12) N-Nitrosomorpholine	6.807	56	843173	20.27 ug/ml#	49
13) N-Nitrosopyrrolidine	6.744	100	869105	20.24 ug/ml#	97
14) o-Toluidine	6.836	106	2700811	20.73 ug/ml	99
15) N-Nitrosopiperidine	7.288	114	934805	19.97 ug/ml#	56
16) Phentermine	7.986	58	2539831	19.39 ug/ml#	70
18) alpha Terpineol	8.318	59	934360	20.86 ug/ml#	34
19) 2,6-Dichlorophenol	8.415	162	1368361	20.09 ug/ml	92
20) Hexachloropropene	8.467	213	843644	20.03 ug/ml	98
21) Caprolactam	9.039	55	475764m	17.77 ug/ml	
22) N-Nitrosodibutylamine	9.085	84	1129915	18.31 ug/ml#	48
23) 1,4-Phenylenediamine	9.096	108	1195758	22.46 ug/ml#	46
24) Isosafrole	9.520	162	1543203	20.30 ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.040	216	1976845	20.06 ug/ml	100
27) Safrole	10.647	162	1497848	20.16 ug/ml	94
28) Biphenyl	10.704	154	4328786	20.51 ug/ml	100
29) 1-Chloronaphthalene	10.773	162	3436522	20.41 ug/ml#	98
30) Diphenyl ether	10.950	170	2504549	20.28 ug/ml	95
31) 1,4-Naphthoquinone	11.133	158	1256369	24.94 ug/ml	89
32) Pentachlorobenzene	12.364	250	1762160	19.86 ug/ml	99
33) 1-Naphthylamine	12.638	143	2693429	20.64 ug/ml	95
34) 2-Naphthylamine	12.827	115	1131126	19.67 ug/ml	93
35) 5-Nitro-o-toluidine	13.313	152	882579	20.35 ug/ml	91
37) Diallate	14.315	86	1183856	21.49 ug/ml	99
38) 1,3,5-Trinitrobenzene	14.286	75	517921	19.37 ug/ml	95
39) Phenacetin	14.395	108	1317829	19.44 ug/ml	96
40) Atrazine	14.893	200	1195419	21.27 ug/ml#	73
41) 4-Aminobiphenyl	15.013	169	2959189	20.95 ug/ml	97
42) Pentachloronitrobenzene	15.001	237	534931	21.08 ug/ml	94
43) Pronamide	15.179	173	1739536	21.22 ug/ml#	90
44) 4-Nitroquinoline-N-oxide	16.518	190	129649m	11.80 ug/ml	
45) Methapyrilene	16.638	58	1670522	24.16 ug/ml#	53

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

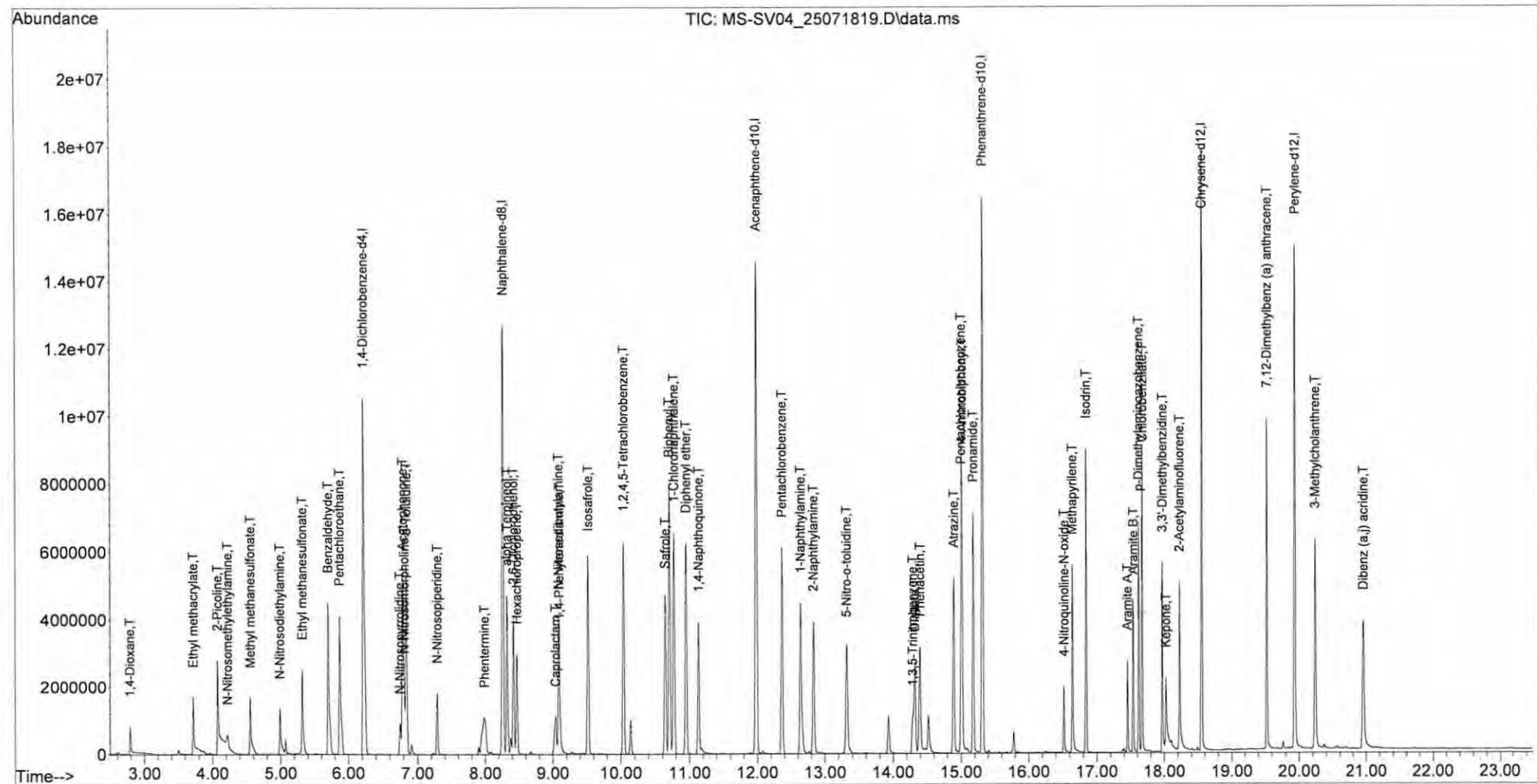
Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.838	193	741621	21.09	ug/ml	94
47) 3,3'-Dimethylbenzidine	17.971	212	2193633	24.03	ug/ml	99
49) Aramite A	17.450	185	192784	19.25	ug/ml#	72
50) Aramite B	17.536	185	449407	20.86	ug/ml#	72
51) p-Dimethylaminoazobenzene	17.616	120	1322370	21.82	ug/ml	96
52) Chlorobenzilate	17.674	251	1680919	21.96	ug/ml	97
53) Kepone	18.023	272	424626	24.03	ug/ml#	84
54) 2-Acetylaminofluorene	18.223	181	1334450	18.78	ug/ml	98
56) 7,12-Dimethylbenz (a) ...	19.522	256	2164480	20.65	ug/ml	98
57) 3-Methylcholanthrene	20.237	268	2079966	20.11	ug/ml#	95
58) Dibenx (a,j) acridine	20.958	279	2850199	20.19	ug/ml#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

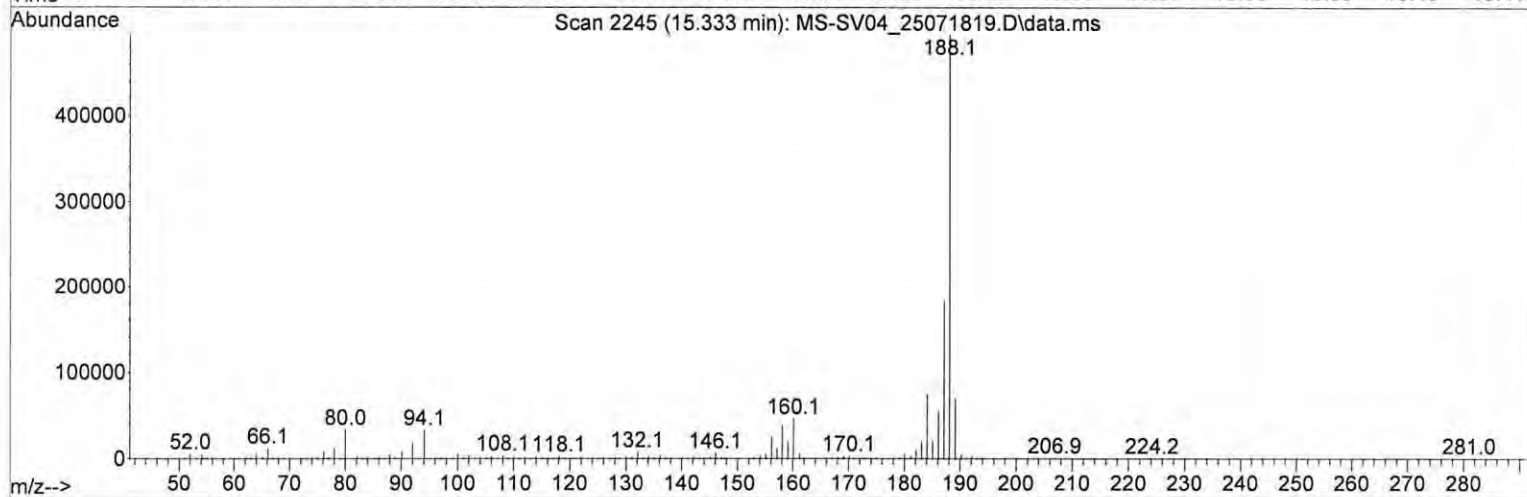
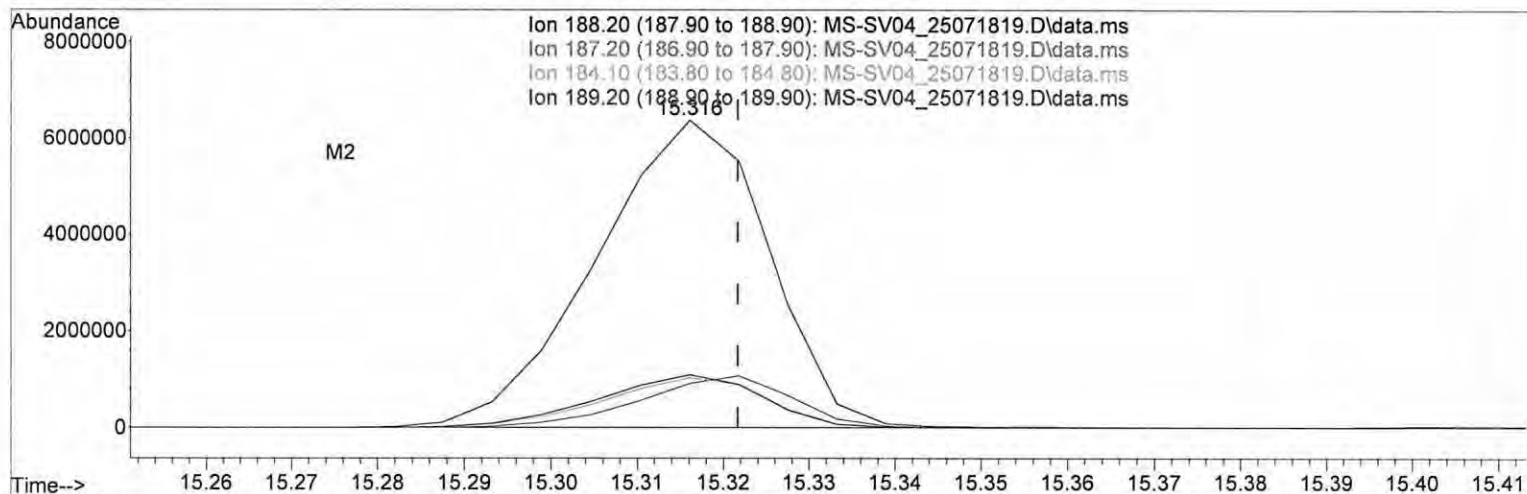
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(36) Phenanthrene-d10 (I)

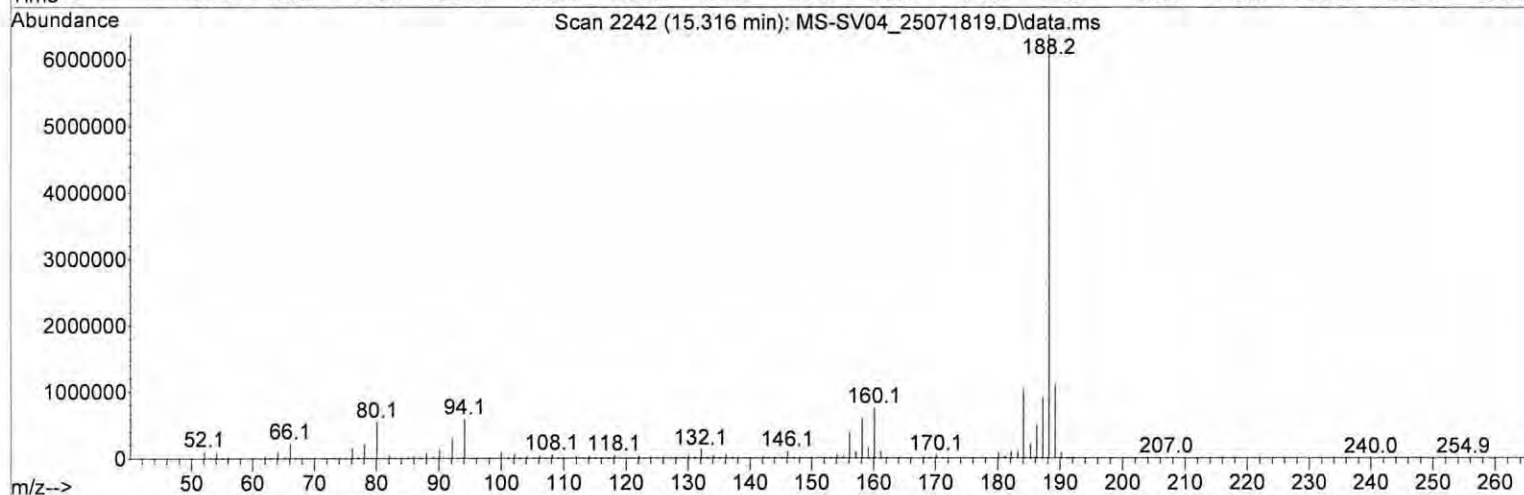
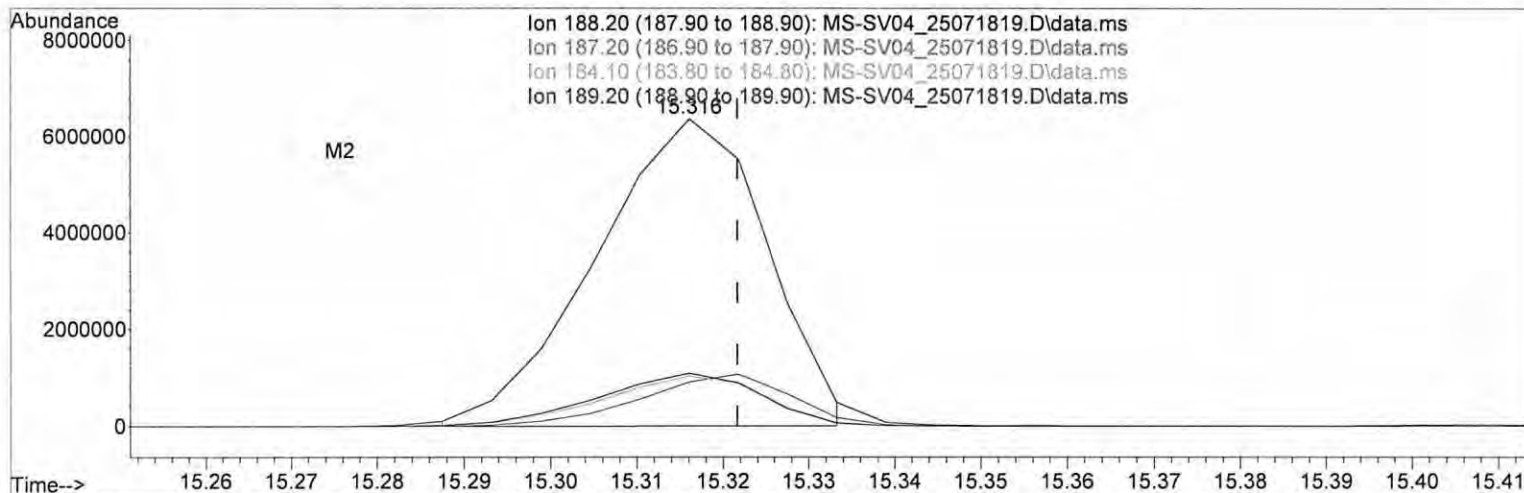
15.316min (-0.006) 40.00 ug/ml

response 8860356

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.90#
184.10	14.80	15.56
189.20	16.40	16.46

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071819.D\data.ms

(36) Phenanthrene-d10 (I)

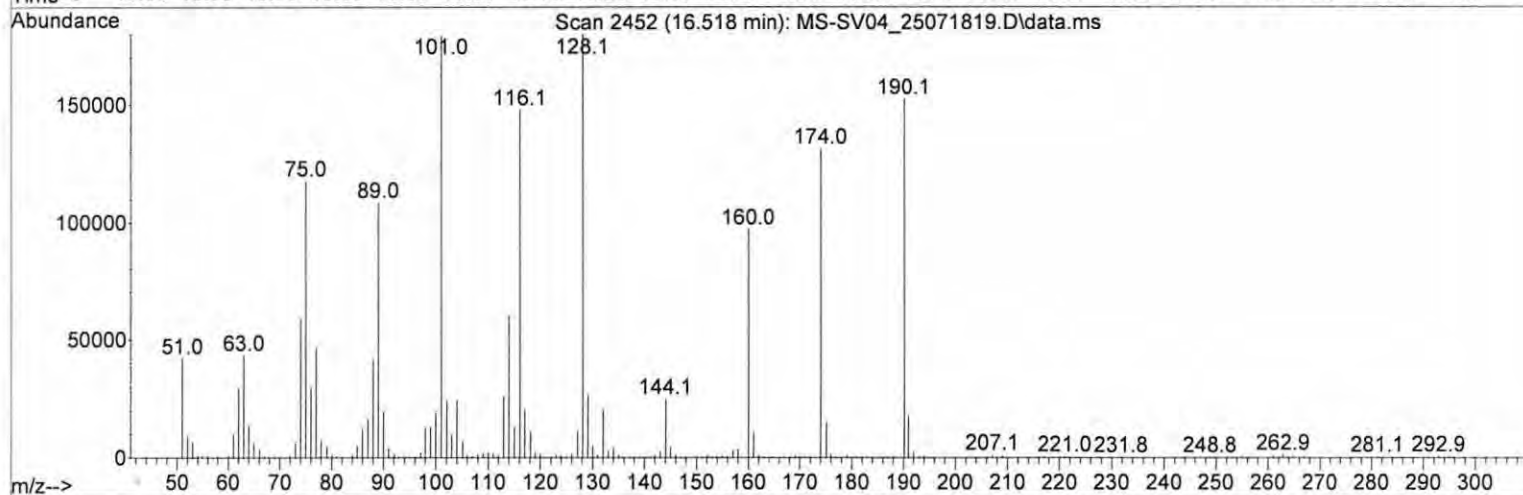
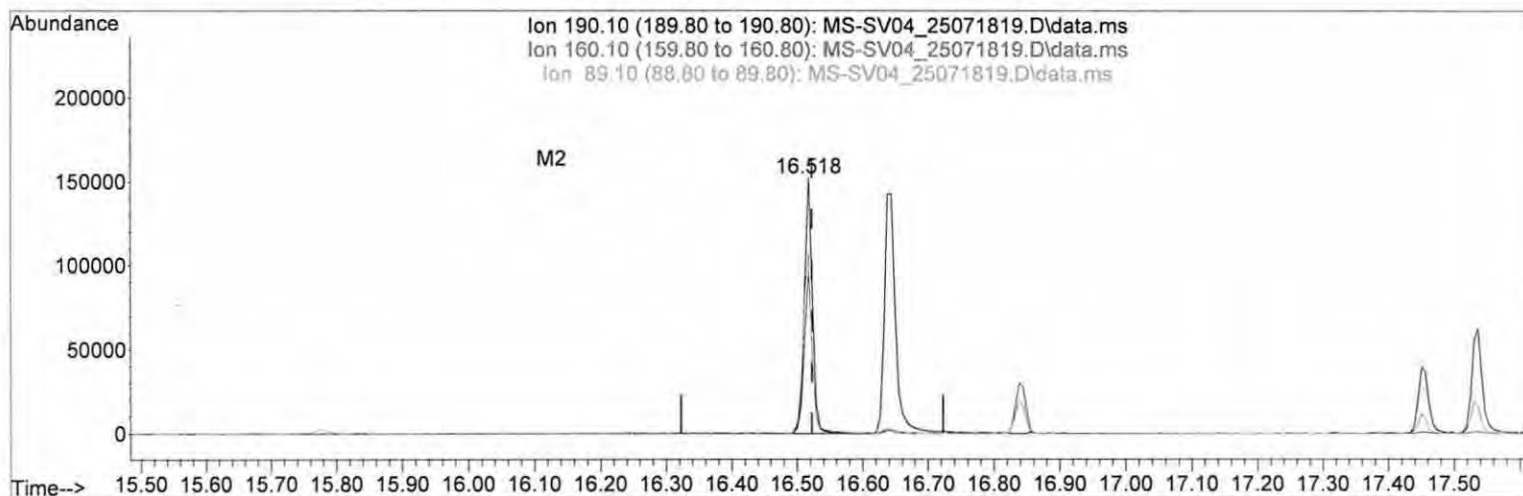
15.316min (-0.006) 40.00 ug/ml m

response 8752117

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	15.08#
184.10	14.80	15.75
189.20	16.40	16.66

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

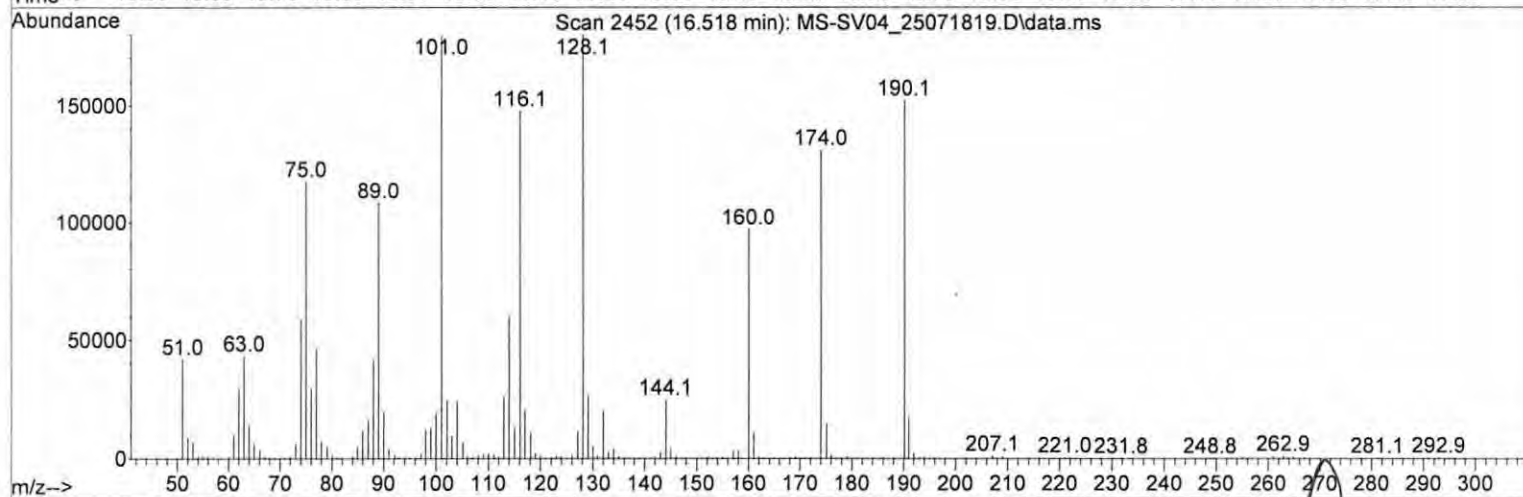
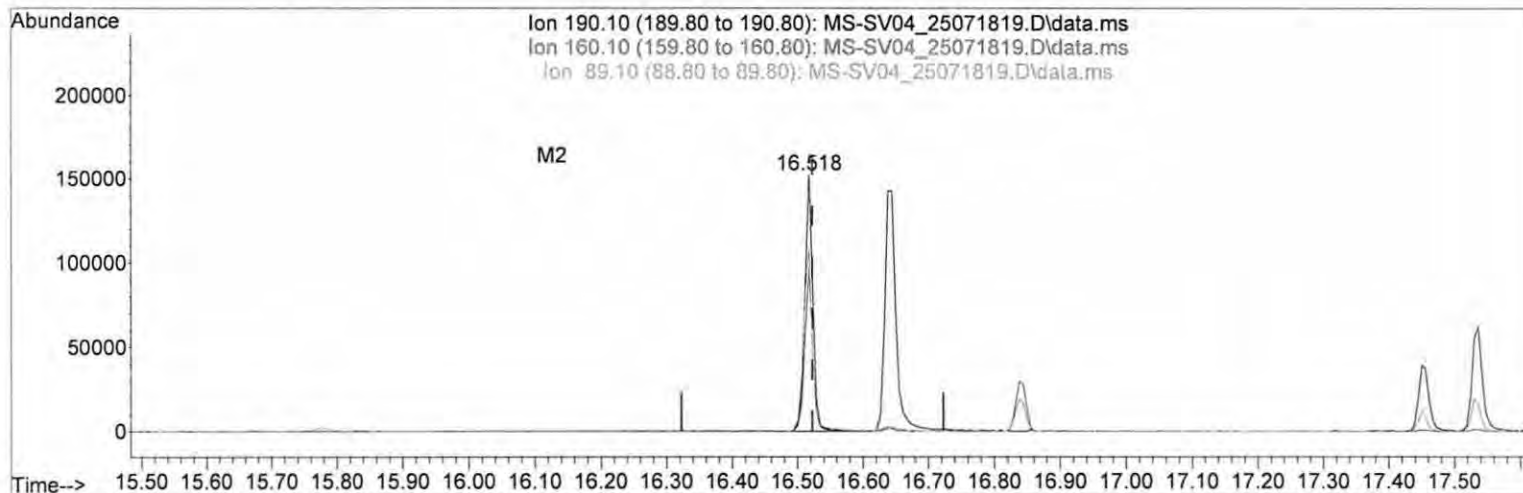
16.518min (-0.005) 11.80 ug/ml

response 129643

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	63.02
89.10	52.80	78.15#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

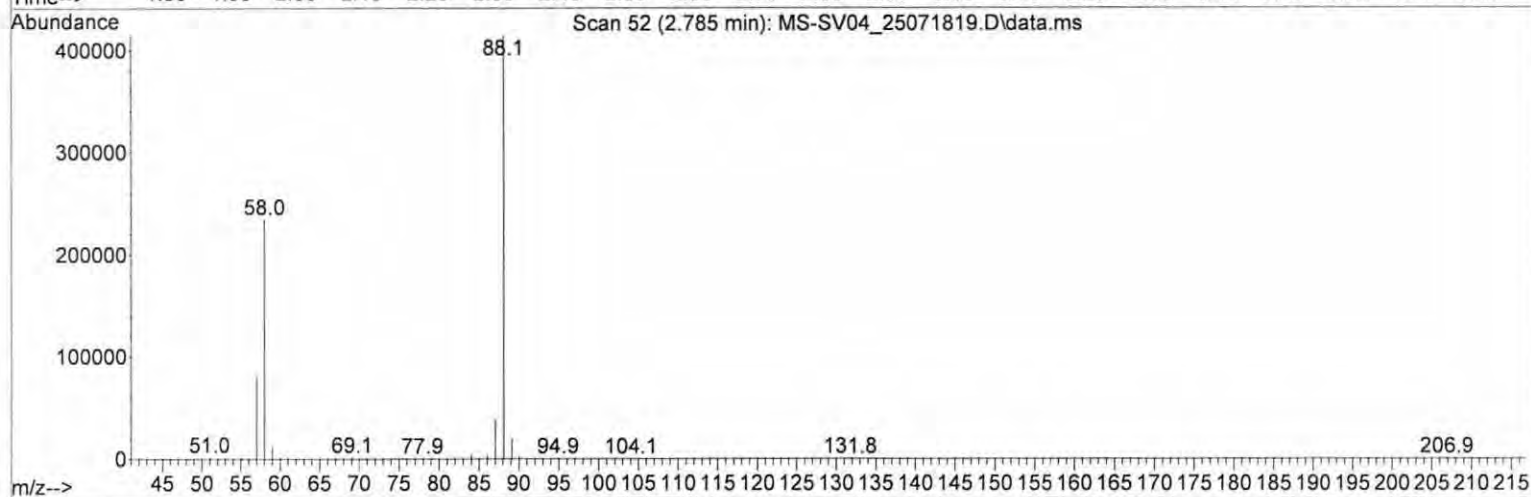
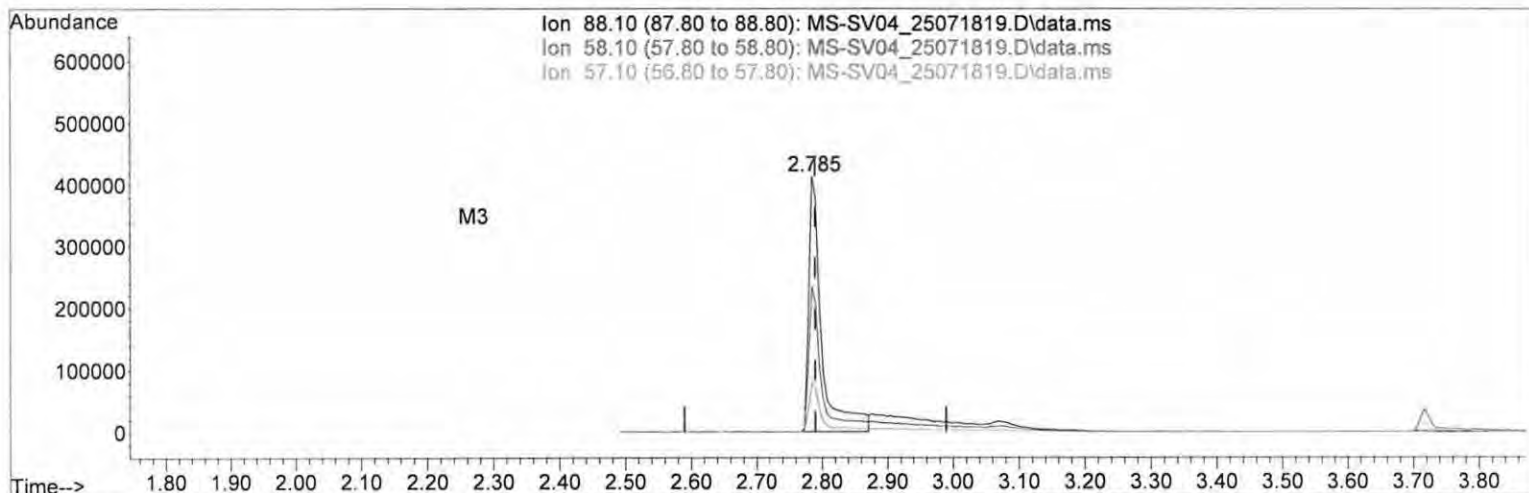
16.518min (-0.005) 11.80 ug/ml m

response 129649

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	63.02
89.10	52.80	78.15#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071819.D\data.ms

(2) 1,4-Dioxane (T)

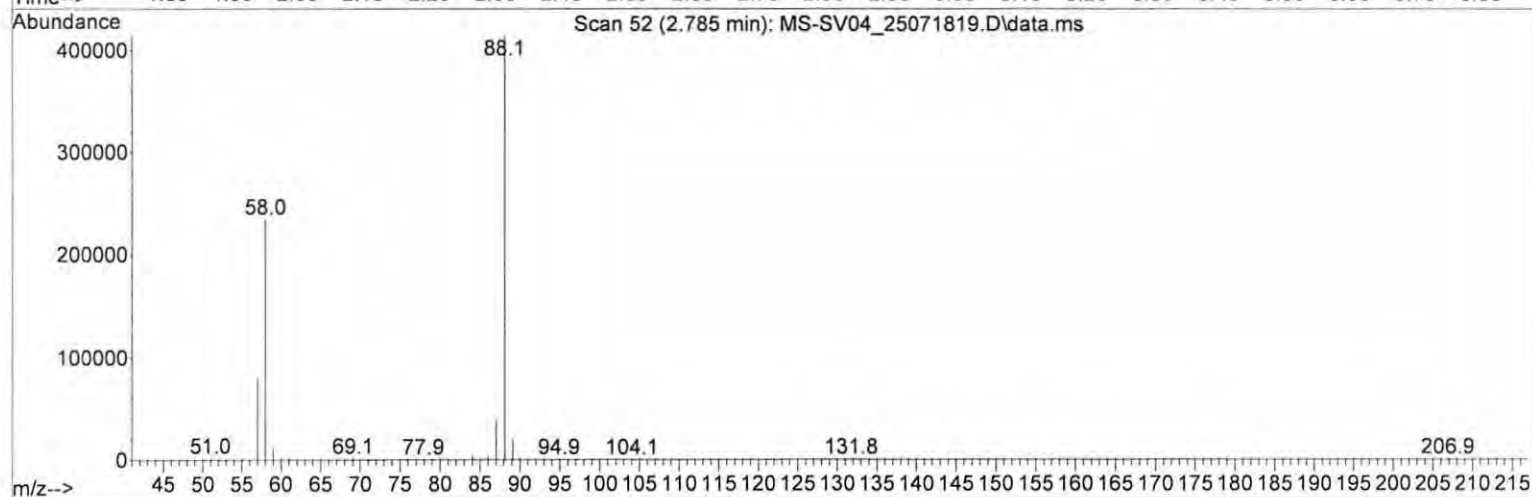
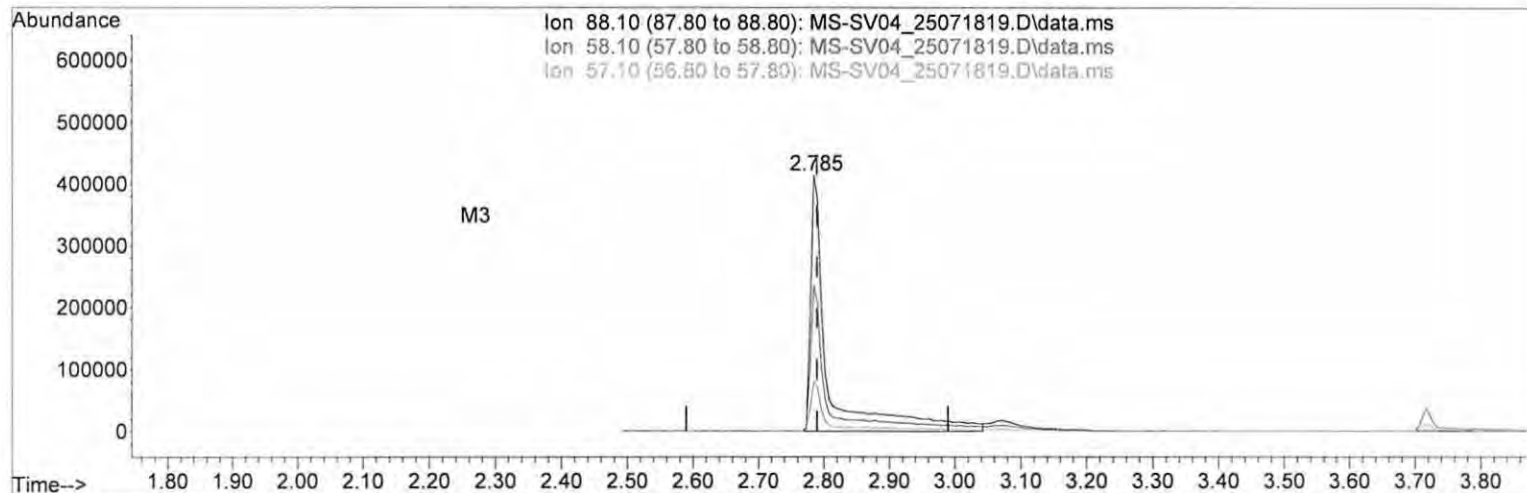
2.785min (-0.005) 19.20 ug/ml

response 574886

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	56.12#
57.10	37.00	15.82#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071819.D\data.ms

(2) 1,4-Dioxane (T)

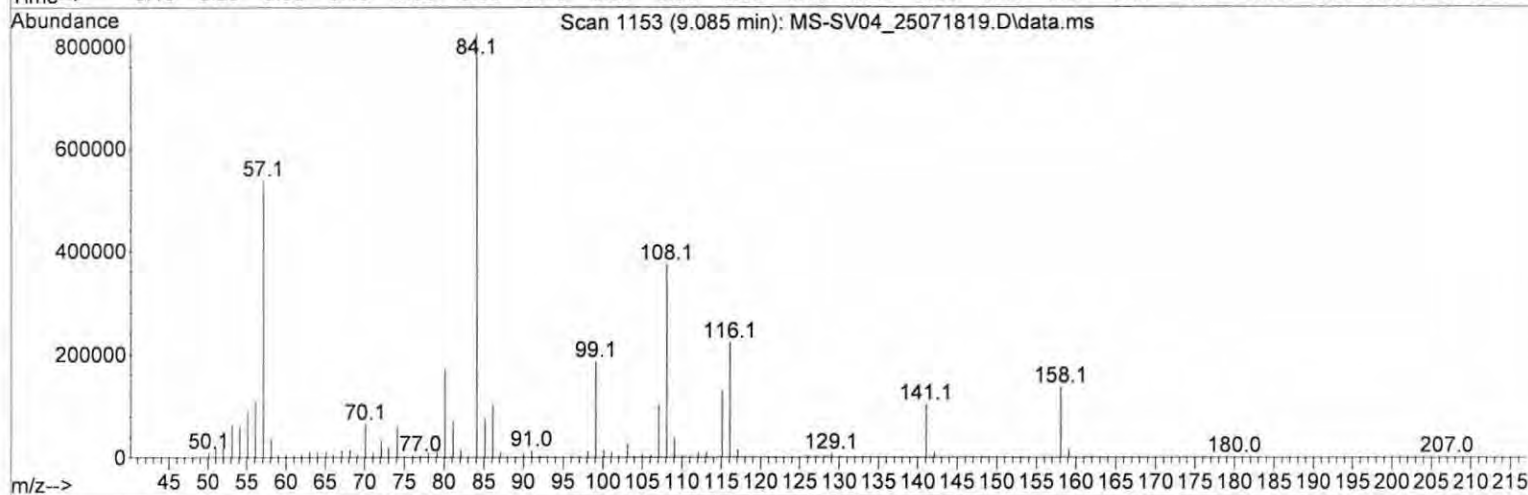
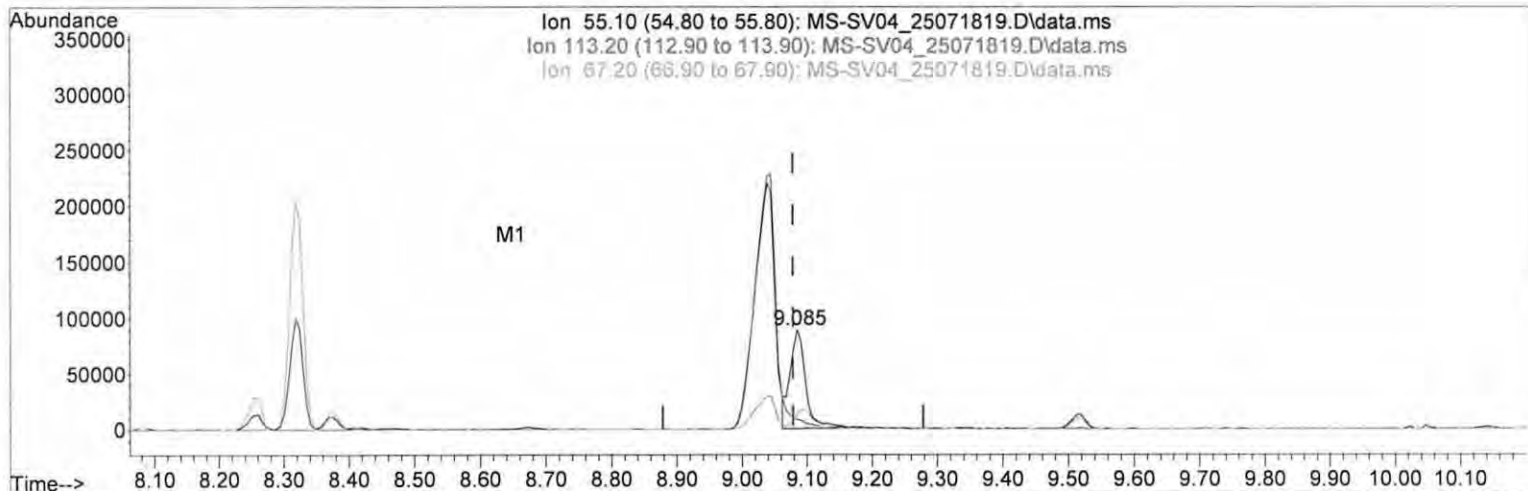
2.785min (-0.005) 25.99 ug/ml m

response 778269

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	41.46#
57.10	37.00	11.69#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071819.D\data.ms

(21) Caprolactam (T)

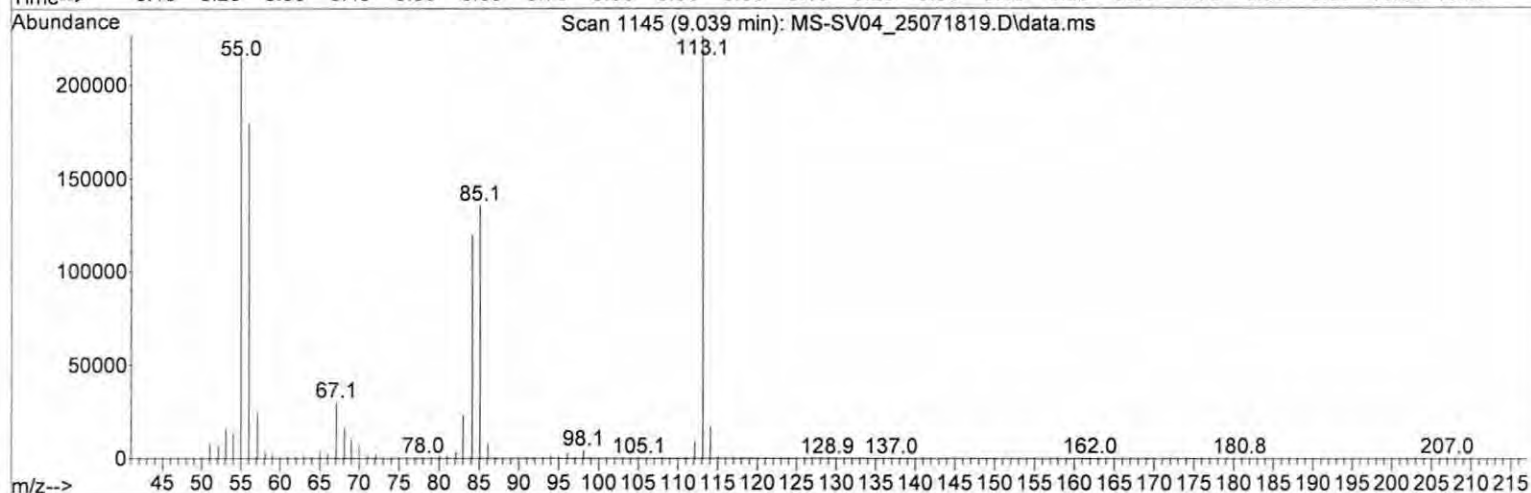
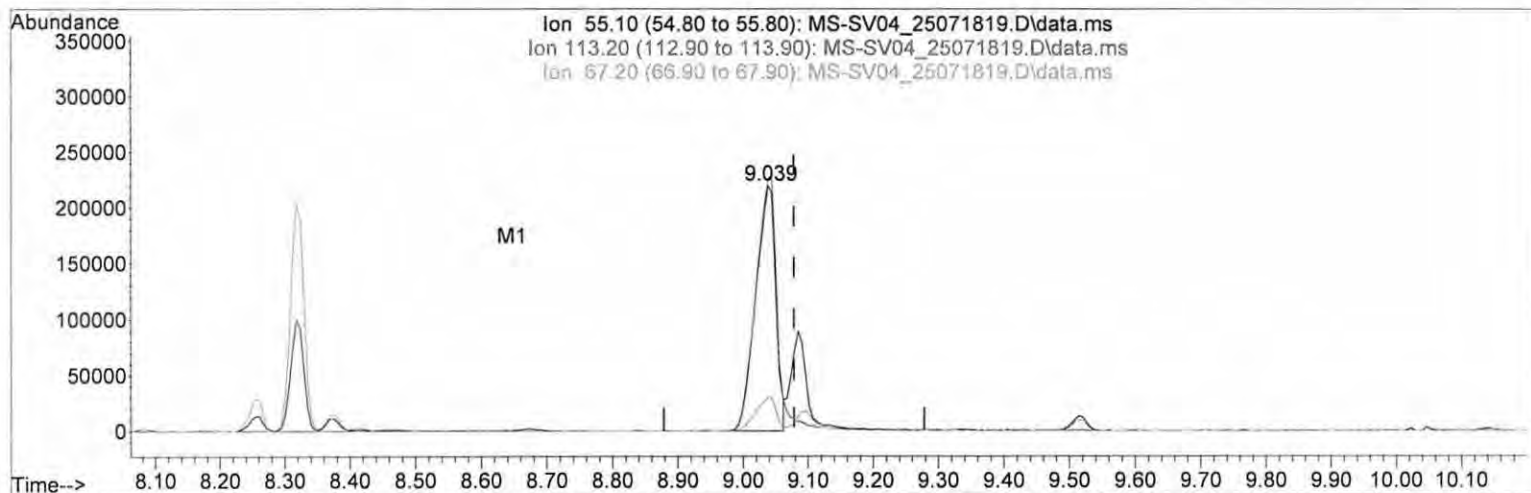
9.085min (+ 0.006) 6.67 ug/ml

response 148122

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	24.67#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071819.D
Acq On : 18 Jul 2025 10:57 pm
Operator : BMS
Sample : SEQ-CALC
Misc : APIX
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 11:22:47 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071819.D\data.ms

(21) Caprolactam (T)

9.039min (-0.040) 17.77 ug/ml m

response 475764

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	7.68
0.00	0.00	0.00

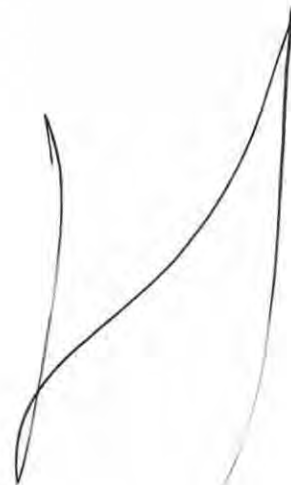
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071820.D
 Acq On : 18 Jul 2025 11:25 pm
 Operator : BMS
 Sample : SEQ-CALD
 Misc : APIX
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4948793	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	9862903	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	6088253	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.322	188	8908020m	40.00	ug/ml	0.00
48) Chrysene-d12	18.555	240	7325103	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	7606922	40.00	ug/ml	# 0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.790	88	1482913m	49.63	ug/ml
3) Ethyl methacrylate	3.717	69	2790398	40.03	ug/ml
4) 2-Picoline	4.072	93	3977008	42.32	ug/ml
5) N-Nitrosomethylethylamine	4.221	88	1689324	38.60	ug/ml#
6) Methyl methanesulfonate	4.559	80	2032902	40.10	ug/ml#
7) N-Nitrosodiethylamine	4.993	102	1798963	38.78	ug/ml#
8) Ethyl methanesulfonate	5.325	79	2379821	37.40	ug/ml
9) Benzaldehyde	5.703	106	2874751	39.31	ug/ml#
10) Pentachloroethane	5.869	167	1613376	37.27	ug/ml
11) Acetophenone	6.790	105	4634474	36.88	ug/ml#
12) N-Nitrosomorpholine	6.819	56	1577032	37.99	ug/ml#
13) N-Nitrosopyrrolidine	6.762	100	1752964	40.91	ug/ml
14) o-Toluidine	6.842	106	4903521	37.73	ug/ml
15) N-Nitrosopiperidine	7.294	114	1803994	38.63	ug/ml#
16) Phentemine	8.026	58	6435617	44.87	ug/ml#
18) alpha Terpineol	8.324	59	1641231	36.41	ug/ml#
19) 2,6-Dichlorophenol	8.421	162	2708322	39.51	ug/ml
20) Hexachloropropene	8.467	213	1911977	45.11	ug/ml
21) Caprolactam	9.079	55	1246664	43.61	ug/ml#
22) N-Nitrosodibutylamine	9.096	84	2624394	42.25	ug/ml#
23) 1,4-Phenylenediamine	9.108	108	2408417	43.08	ug/ml#
24) Isosafrole	9.520	162	2899920	37.91	ug/ml
25) 1,2,4,5-Tetrachloroben...	10.040	216	3734081	37.65	ug/ml
27) Safrole	10.653	162	2903622	38.29	ug/ml
28) Biphenyl	10.715	154	7851002	36.45	ug/ml
29) 1-Chloronaphthalene	10.778	162	6380470	37.12	ug/ml#
30) Diphenyl ether	10.956	170	4633367	36.75	ug/ml
31) 1,4-Naphthoquinone	11.139	158	2264673	44.04	ug/ml
32) Pentachlorobenzene	12.369	250	3425675	37.83	ug/ml
33) 1-Naphthylamine	12.644	143	5499249	41.30	ug/ml
34) 2-Naphthylamine	12.833	115	2448492	41.71	ug/ml
35) 5-Nitro-o-toluidine	13.325	152	1889557	41.27	ug/ml
37) Diallate	14.320	86	2217581	39.55	ug/ml
38) 1,3,5-Trinitrobenzene	14.286	75	1242776	42.39	ug/ml
39) Phenacetin	14.412	108	2863418	39.69	ug/ml
40) Atrazine	14.904	200	2266928	39.62	ug/ml#
41) 4-Aminobiphenyl	15.018	169	5815628	40.45	ug/ml
42) Pentachloronitrobenzene	15.007	237	1054730	40.83	ug/ml#
43) Pronamide	15.184	173	3393910	40.67	ug/ml#
44) 4-Nitroquinoline-N-oxide	16.523	190	477218m	31.03	ug/ml
45) Methapyrilene	16.643	58	3179742m	45.19	ug/ml



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

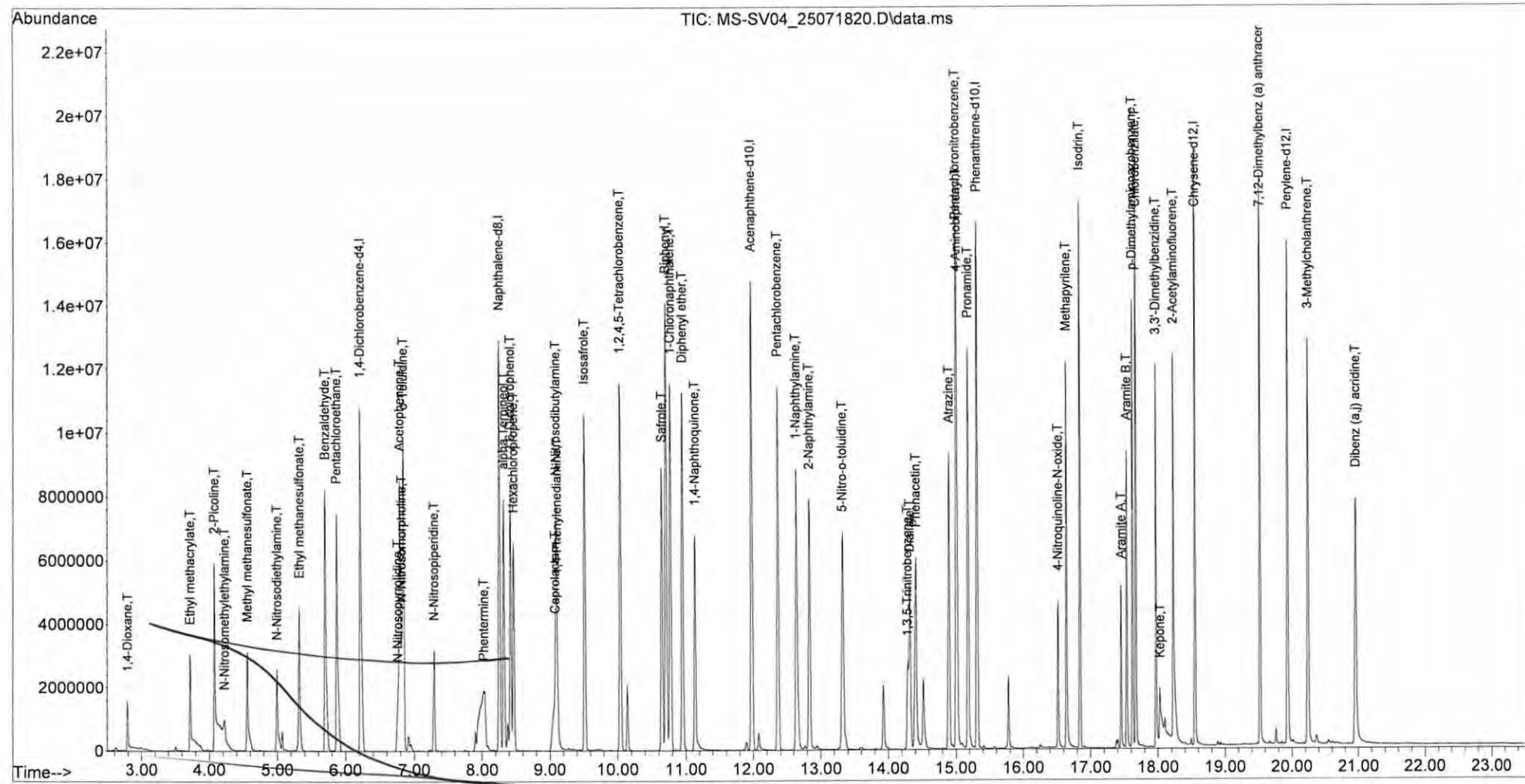
Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.844	193	1375074	38.42	ug/ml	92
47) 3,3'-Dimethylbenzidine	17.971	212	4230798	45.54	ug/ml	98
49) Aramite A	17.456	185	435338	38.01	ug/ml#	68
50) Aramite B	17.536	185	950944	39.66	ug/ml#	71
51) p-Dimethylaminoazobenzene	17.622	120	2595086	39.76	ug/ml	93
52) Chlorobenzilate	17.673	251	3279118	39.77	ug/ml	94
53) Kepone	18.028	272	765591m	40.22	ug/ml	
54) 2-Acetylaminofluorene	18.228	181	3310605	40.06	ug/ml	98
56) 7,12-Dimethylbenz (a) ...	19.527	256	4402014	40.86	ug/ml	99
57) 3-Methylcholanthrene	20.243	268	4289194	40.34	ug/ml#	95
58) Dibenz (a,j) acridine	20.964	279	5784293	39.14	ug/ml#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

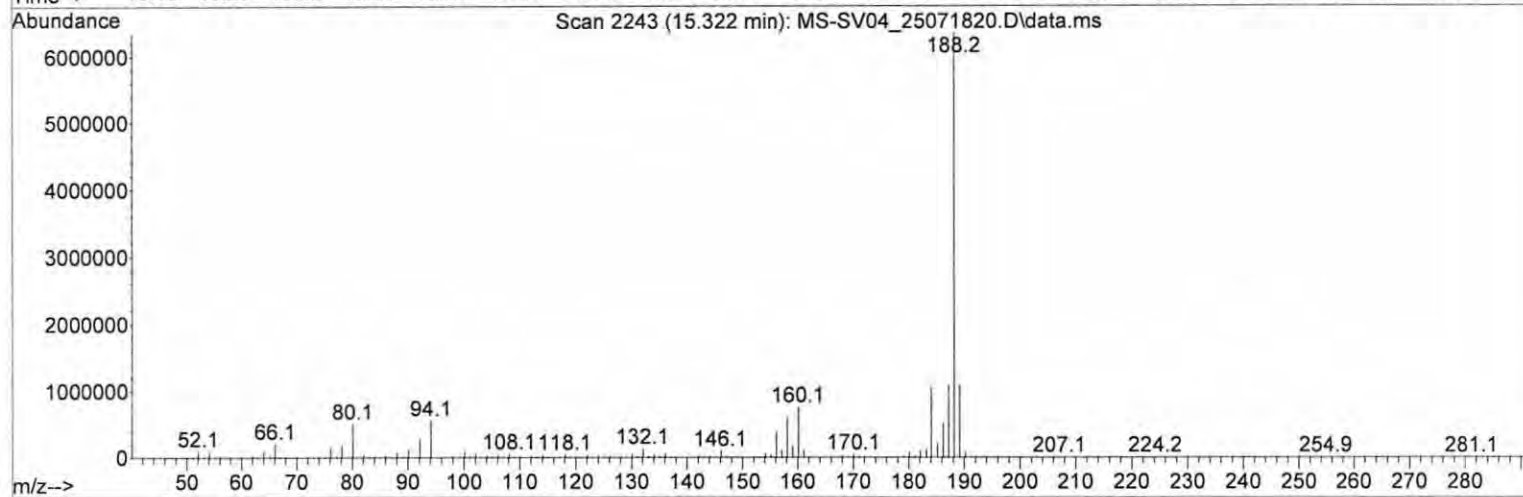
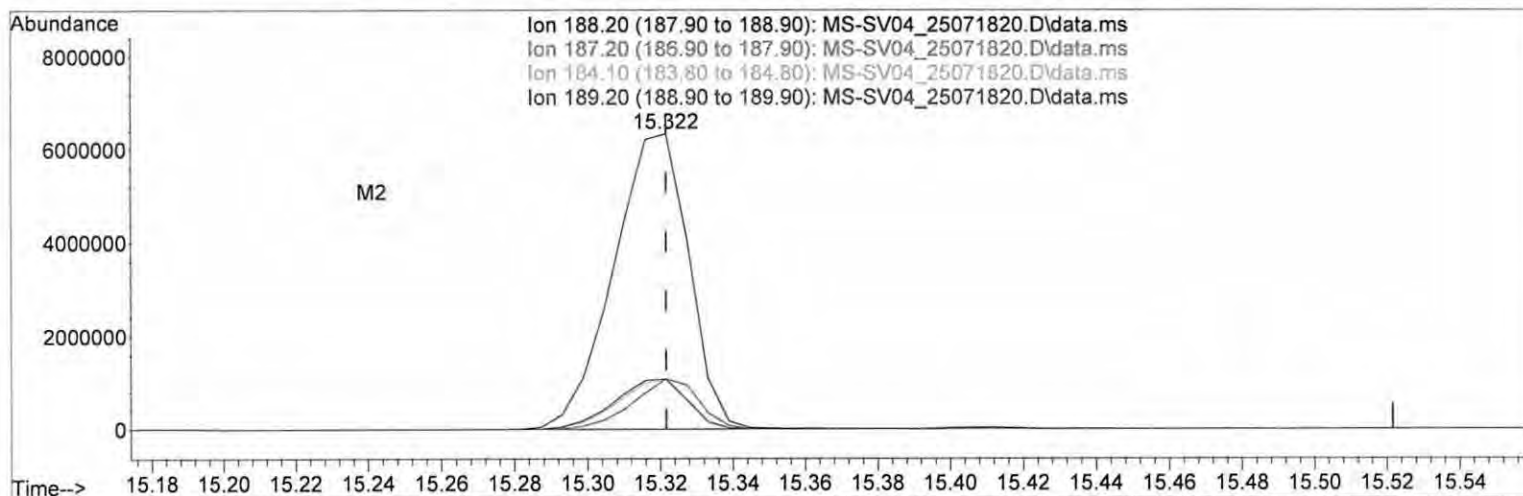
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(36) Phenanthrene-d10 (I)

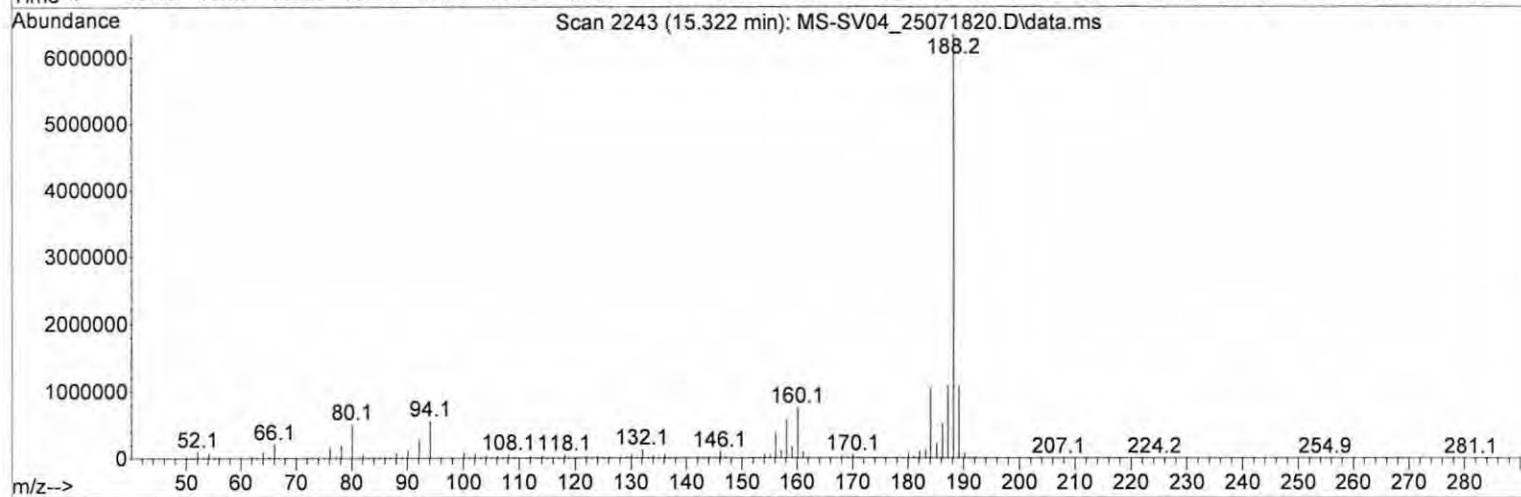
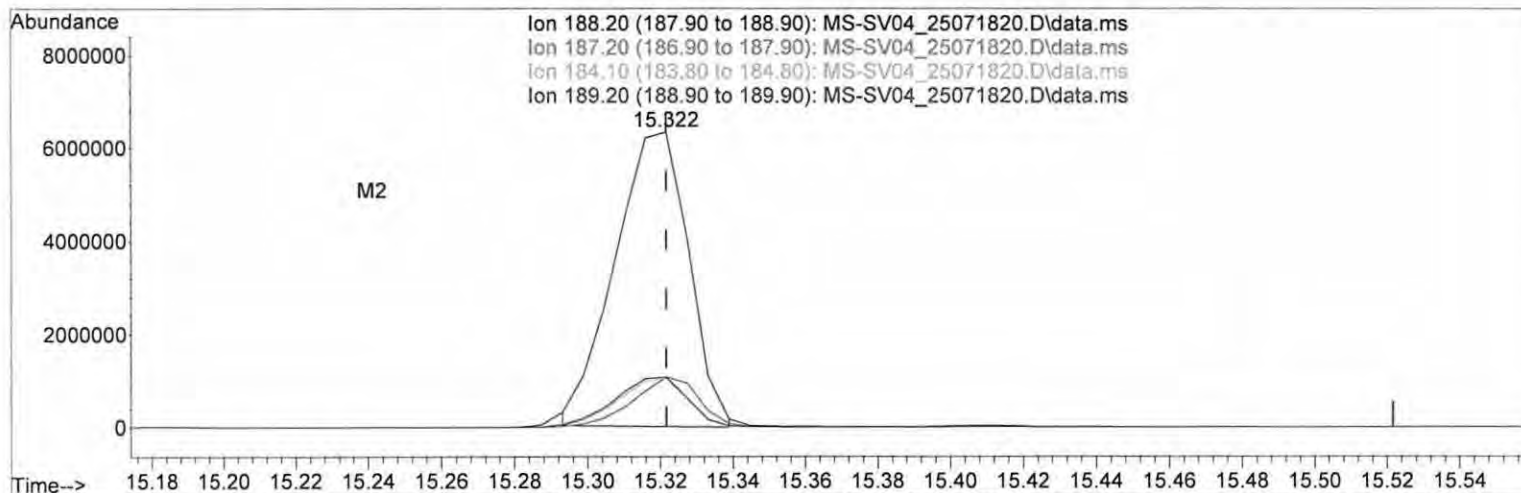
15.322min (0.000) 40.00 ug/ml

response 9119236

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.96#
184.10	14.80	15.60
189.20	16.40	16.46

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(36) Phenanthrene-d10 (I)

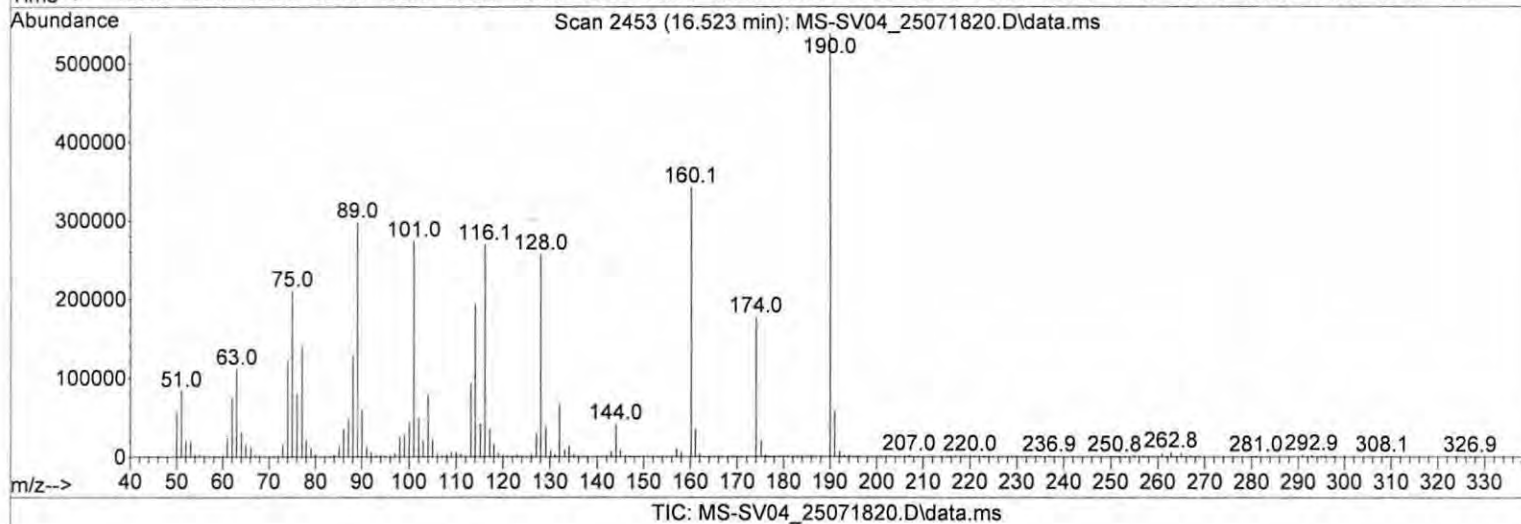
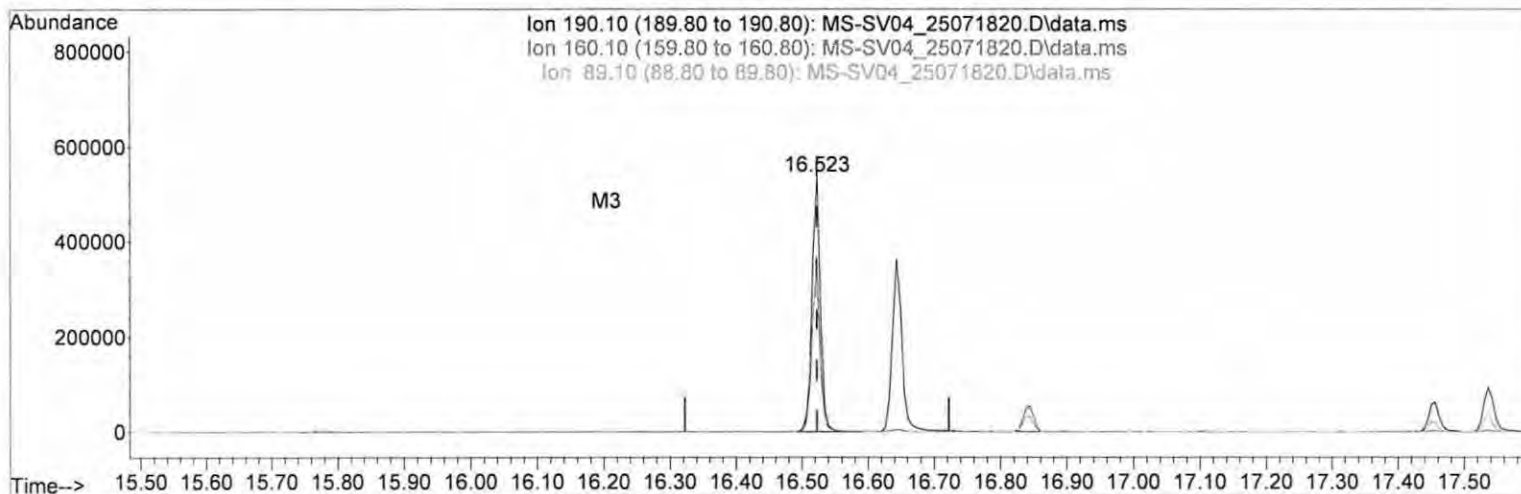
15.322min (0.000) 40.00 ug/ml m

response 8908020

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	15.32#
184.10	14.80	15.97
189.20	16.40	16.85

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

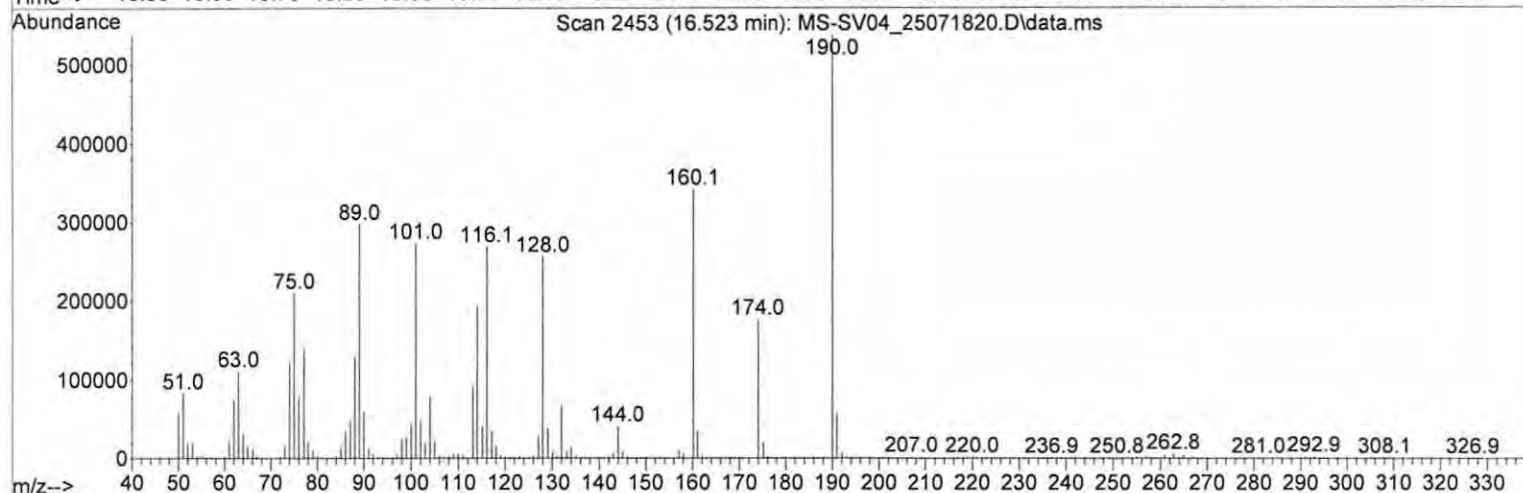
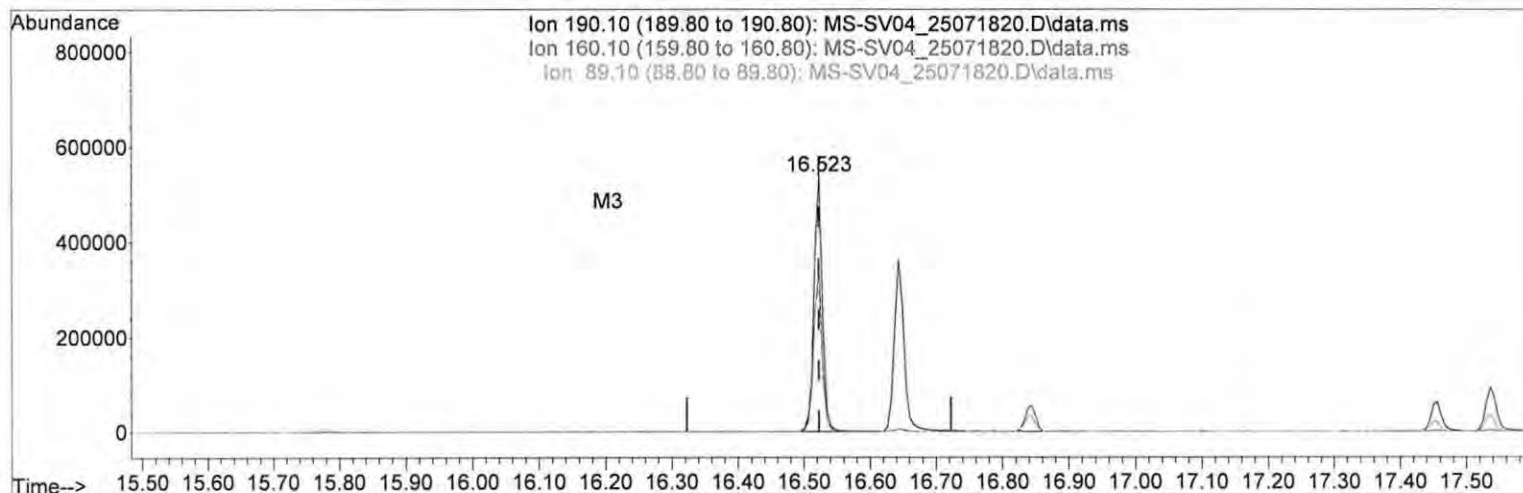
16.523min (+ 0.000) 30.96 ug/ml

response 475928

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	64.42
89.10	52.80	64.29#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

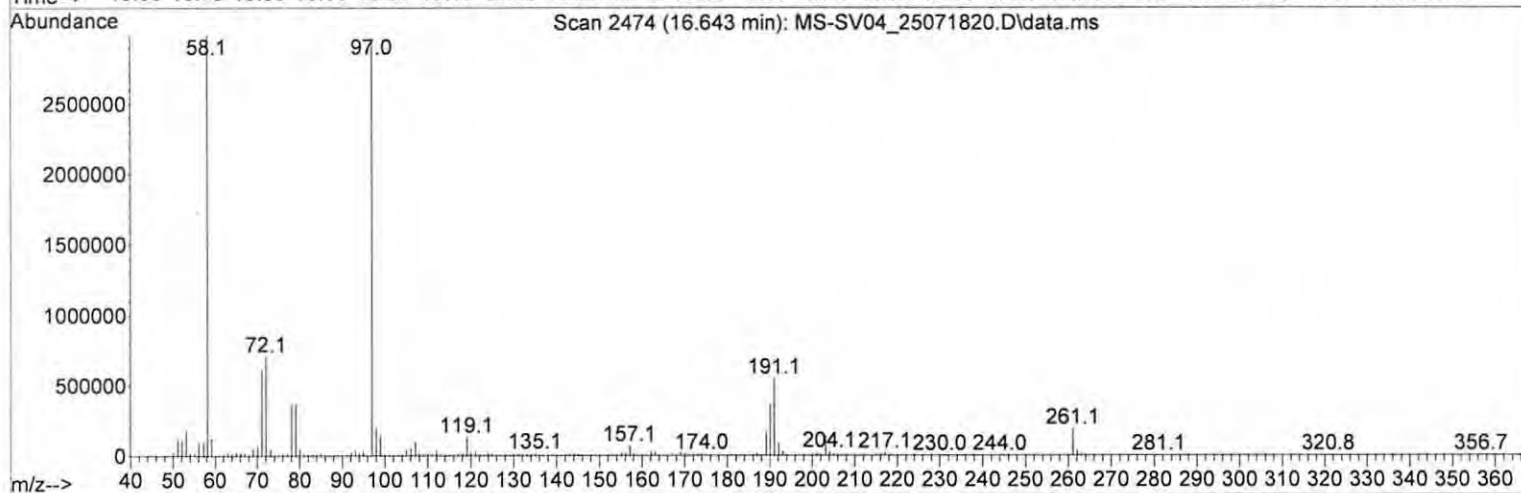
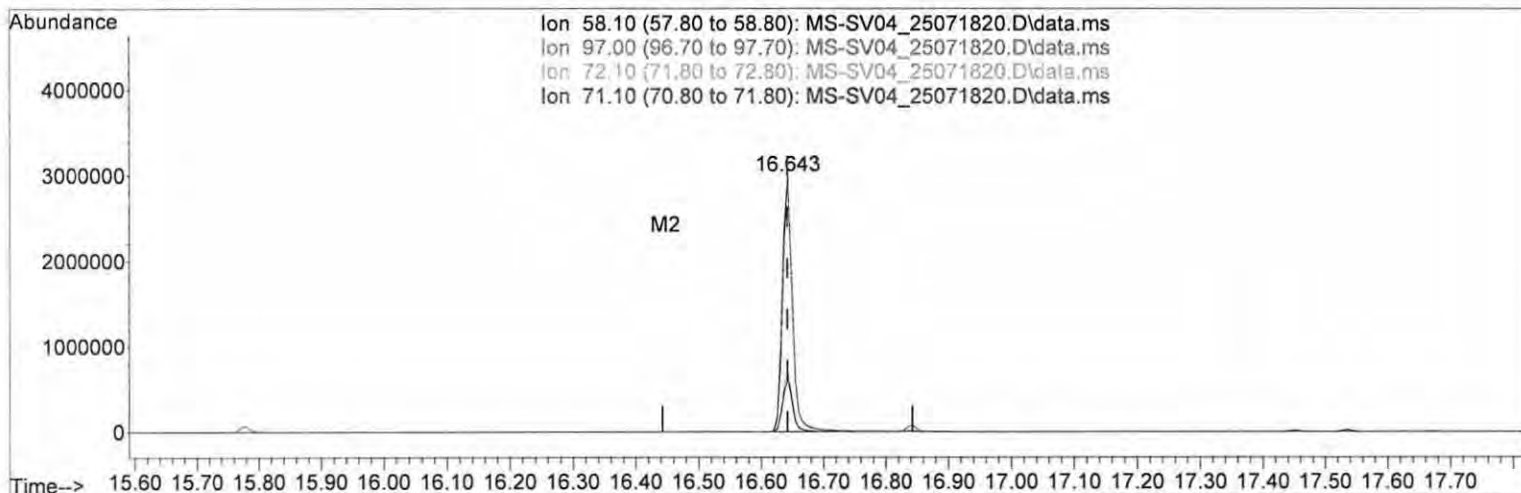
16.523min (+ 0.000) 31.03 ug/ml m

response 477218

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	64.24
89.10	52.80	64.11#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(45) Methapyrilene (T)

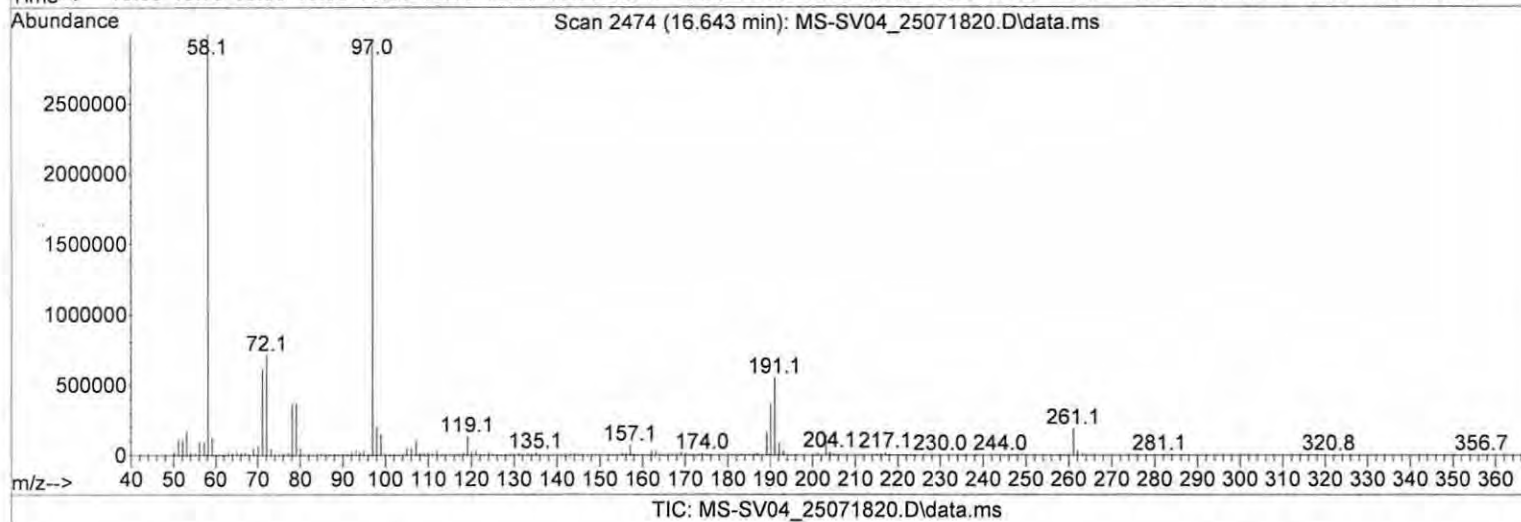
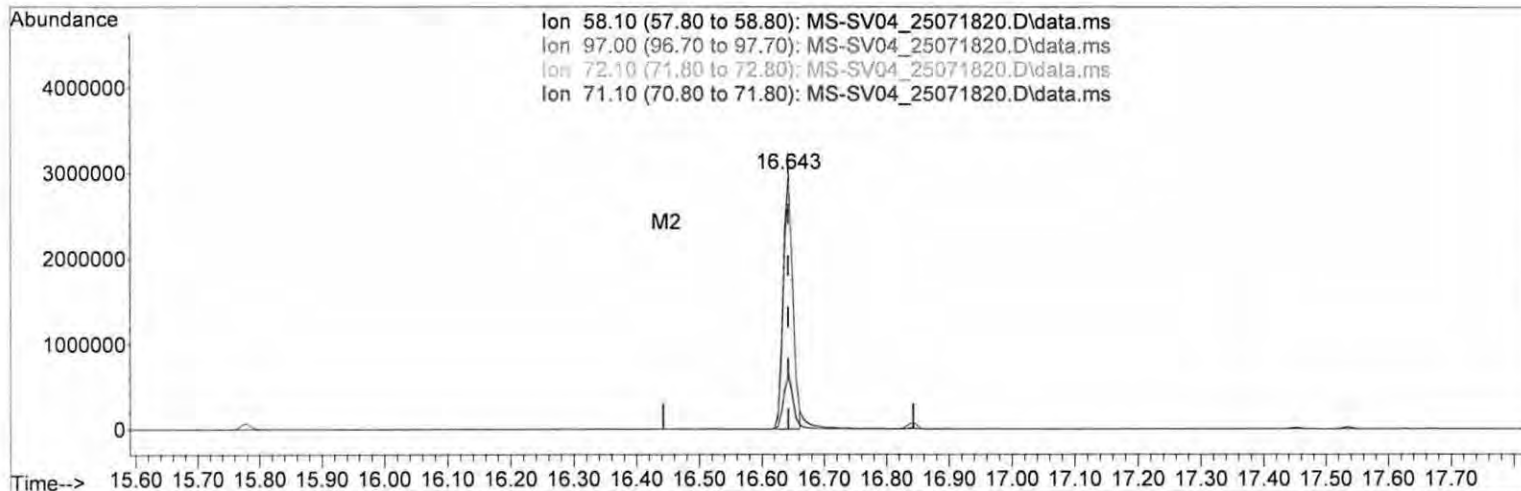
16.643min (+ 0.000) 47.89 ug/ml

response 3369905

Ion	Exp%	Act%
58.10	100.00	100.00
97.00	52.10	95.16#
72.10	13.10	23.37#
71.10	11.40	20.13#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(45) Methapyrilene (T)

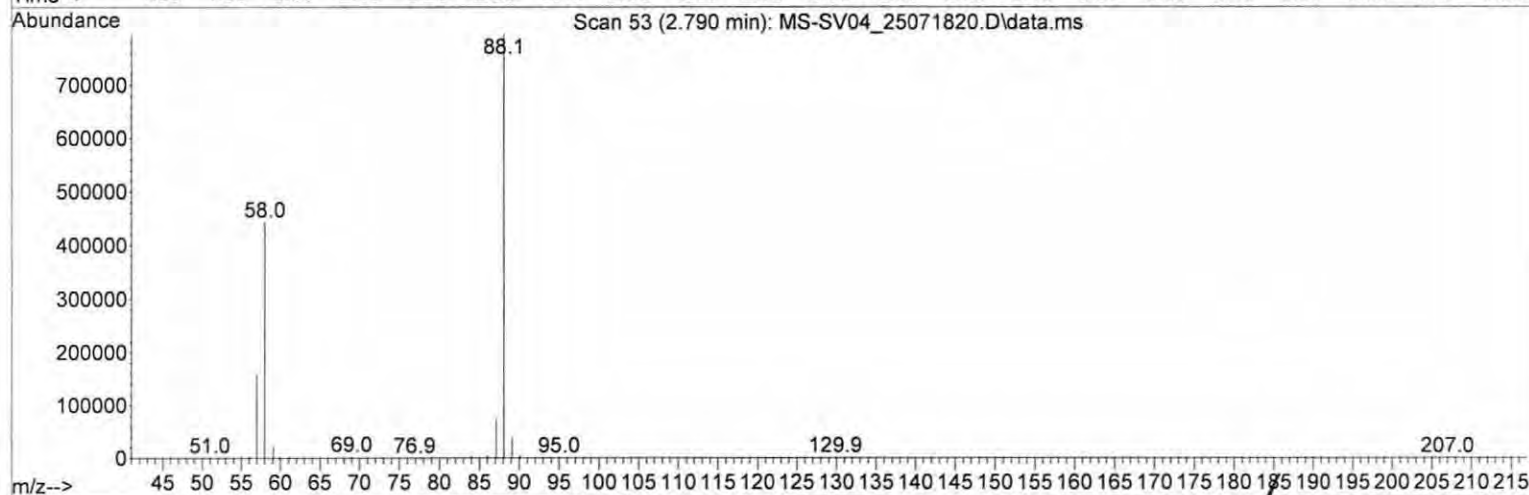
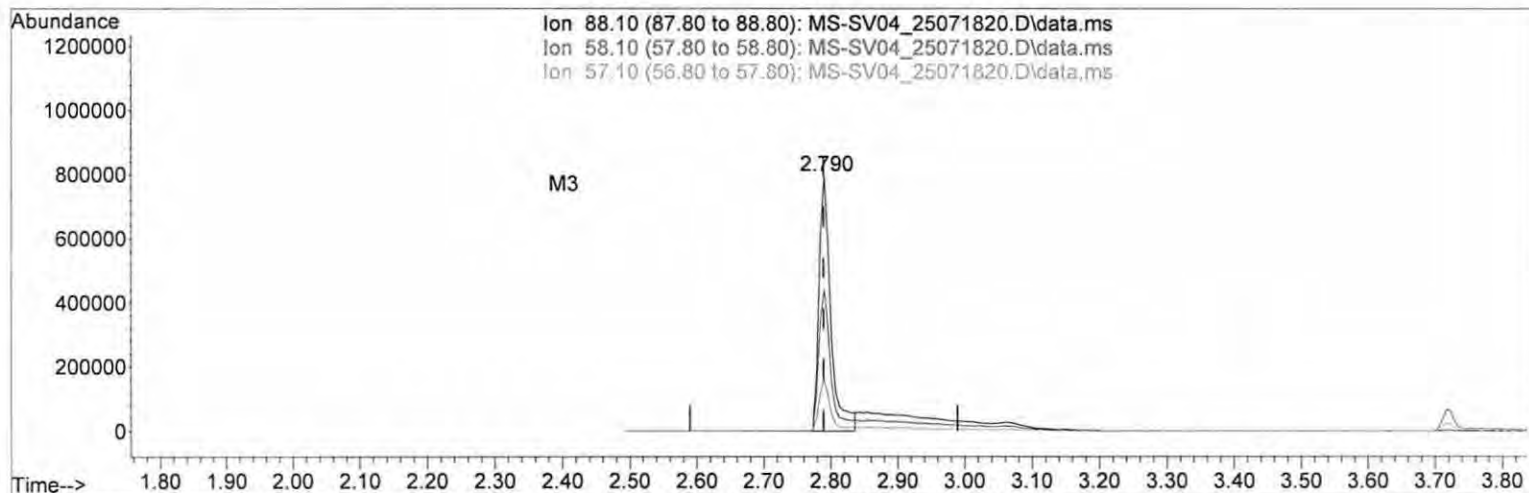
16.643min (+ 0.000) 45.19 ug/ml m

response 3179742

Ion	Exp%	Act%
58.10	100.00	100.00
97.00	52.10	100.85#
72.10	13.10	24.77#
71.10	11.40	21.33#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(2) 1,4-Dioxane (T)

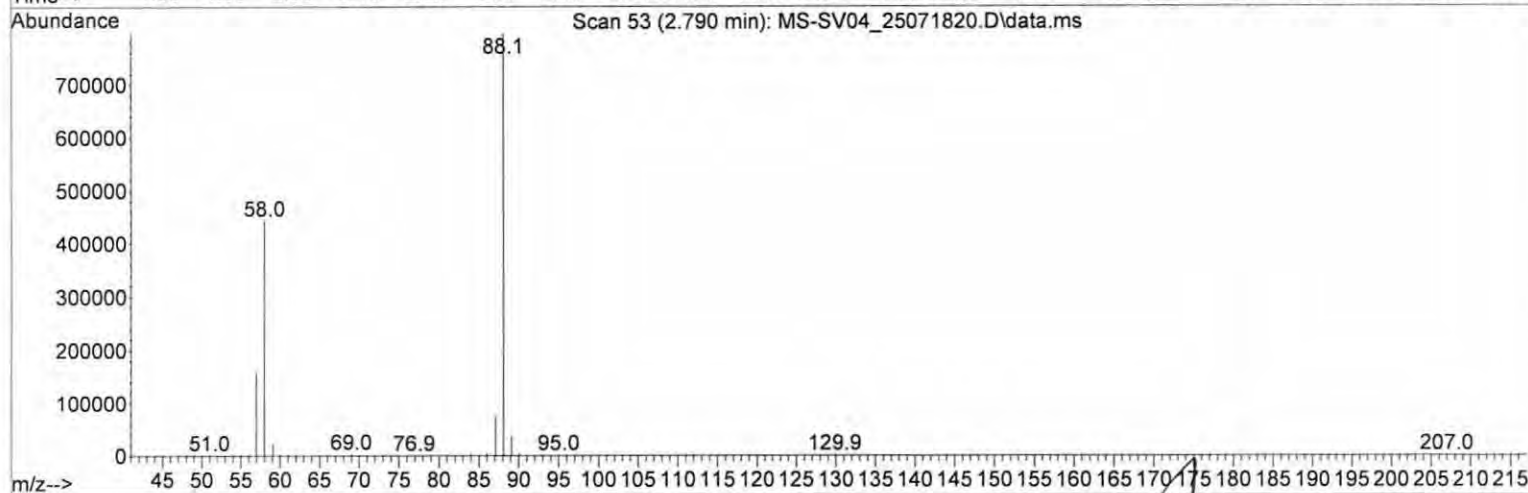
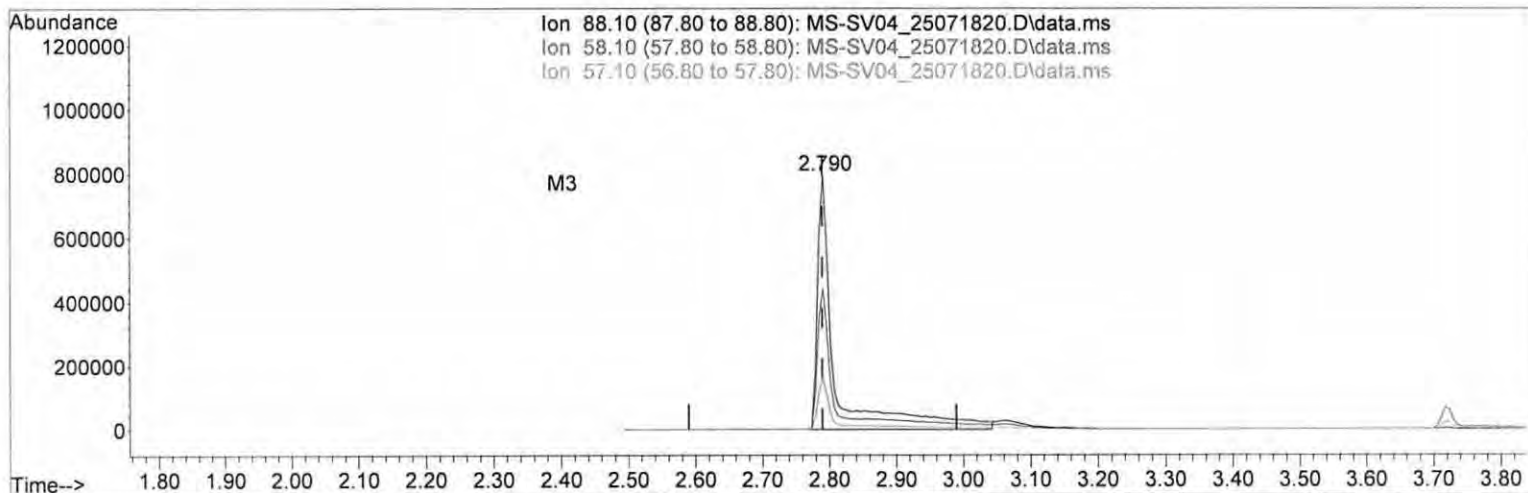
2.790min (+ 0.000) 33.08 ug/ml

response 988490

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	58.46#
57.10	37.00	18.74#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(2) 1,4-Dioxane (T)

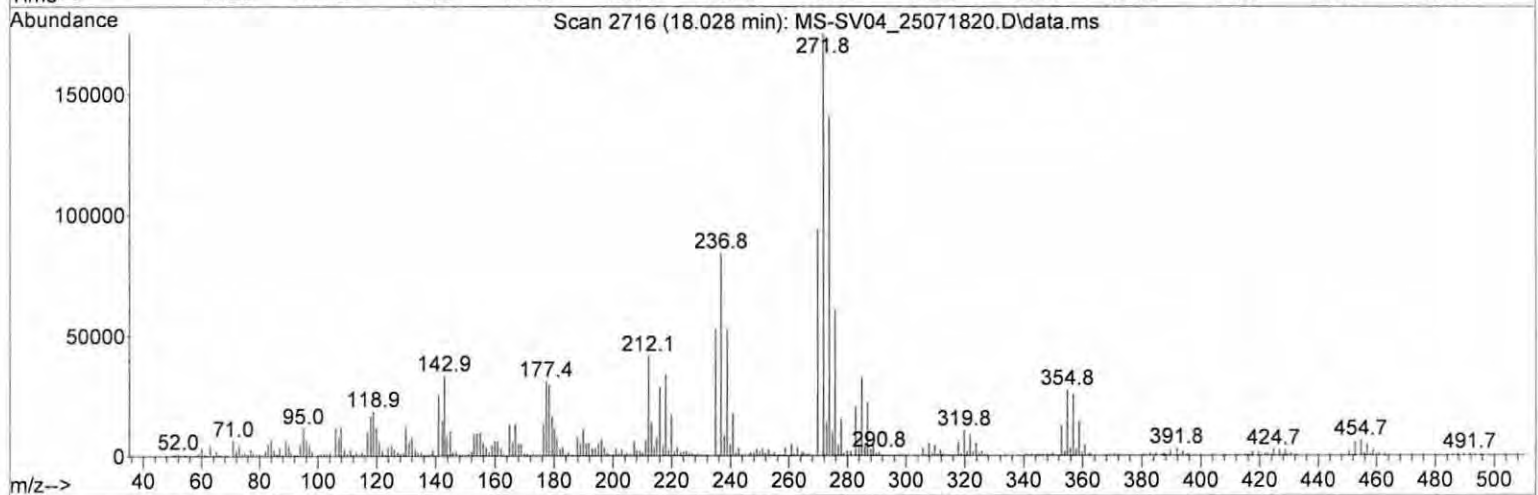
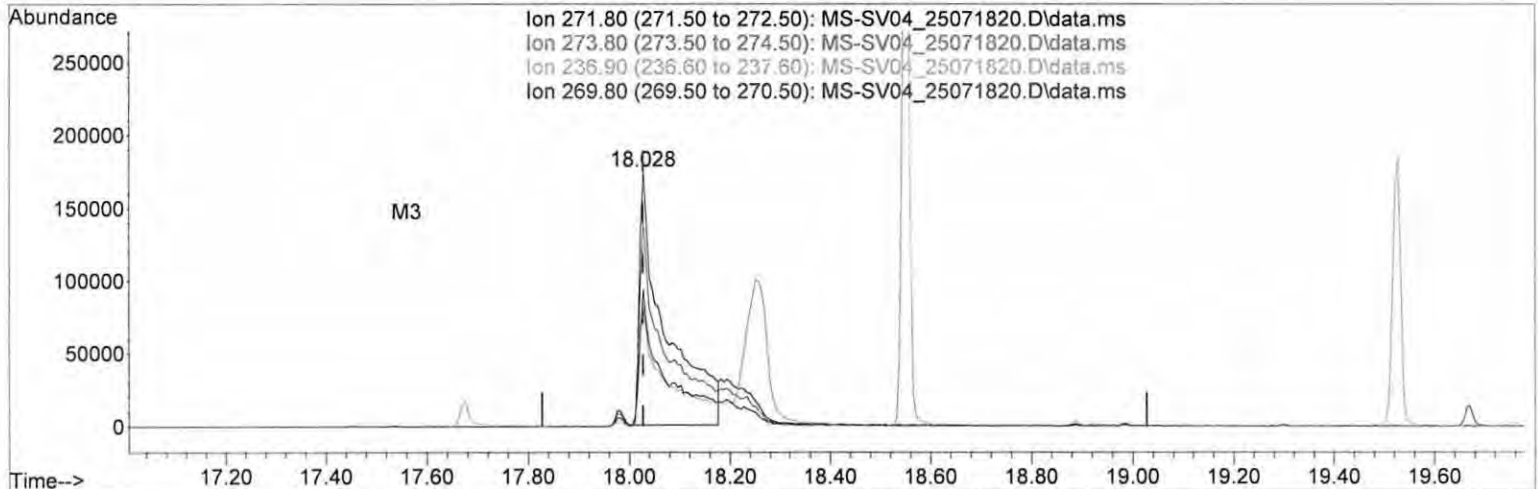
2.790min (+ 0.000) 49.63 ug/ml m

response 1482913

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	38.97#
57.10	37.00	12.49#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(53) Kepone (T)

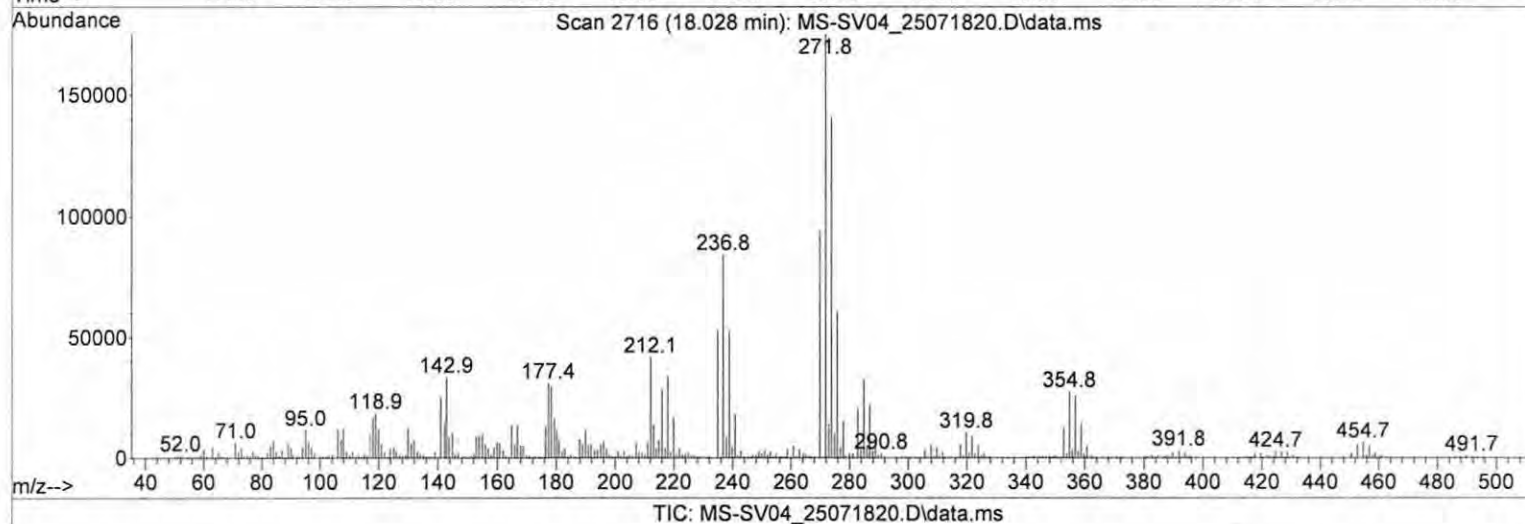
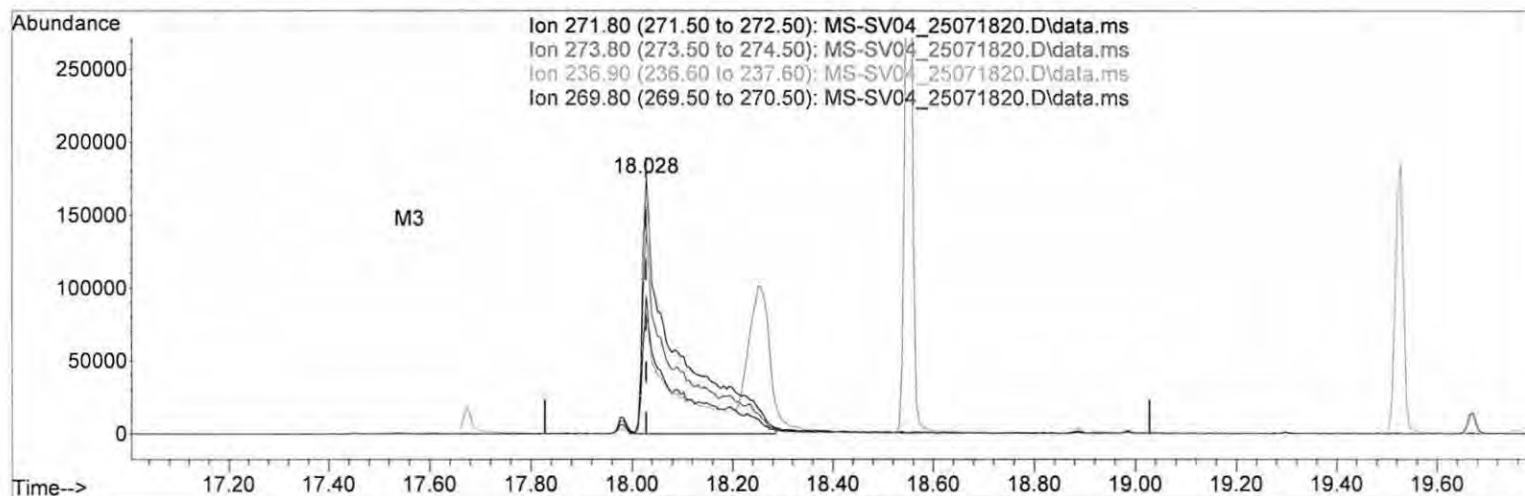
18.028min (+ 0.000) 32.52 ug/ml

response 618965

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	77.56
236.90	53.80	48.02
269.80	10.10	31.81#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071820.D
Acq On : 18 Jul 2025 11:25 pm
Operator : BMS
Sample : SEQ-CALD
Misc : APIX
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 11:22:49 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071820.D\data.ms

(53) Kepone (T)

18.028min (+ 0.000) 40.22 ug/ml m

response 765591

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	62.71#
236.90	53.80	38.82#
269.80	10.10	25.72#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071821.D
 Acq On : 18 Jul 2025 11:54 pm
 Operator : BMS
 Sample : SEQ-CALE
 Misc : APIX
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	5178020	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	10216274	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	6388236	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.322	188	9618492	40.00	ug/ml	# 0.00
48) Chrysene-d12	18.555	240	7723367	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	7980744	40.00	ug/ml	# 0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.796	88	2316868m	74.11	ug/ml	
3) Ethyl methacrylate	3.723	69	4198154	57.56	ug/ml	98
4) 2-Picoline	4.078	93	5659694	57.56	ug/ml	95
5) N-Nitrosomethylethylamine	4.227	88	2711099	59.21	ug/ml#	75
6) Methyl methanesulfonate	4.564	80	2920839	55.06	ug/ml#	91
7) N-Nitrosodiethylamine	4.999	102	2741641	56.48	ug/ml#	55
8) Ethyl methanesulfonate	5.331	79	3657068	54.94	ug/ml	95
9) Benzaldehyde	5.703	106	4056932	53.02	ug/ml#	85
10) Pentachloroethane	5.875	167	2599696	57.40	ug/ml	95
11) Acetophenone	6.796	105	7048634	53.61	ug/ml#	88
12) N-Nitrosomorpholine	6.830	56	2354098	54.20	ug/ml#	46
13) N-Nitrosopyrrolidine	6.773	100	2624677	58.54	ug/ml	98
14) o-Toluidine	6.853	106	7038716	51.76	ug/ml	98
15) N-Nitrosopiperidine	7.305	114	2789309	57.08	ug/ml#	55
16) Phentermine	8.043	58	9368749	61.32	ug/ml#	69
18) alpha Terpineol	8.329	59	2604341	55.78	ug/ml#	30
19) 2,6-Dichlorophenol	8.427	162	4151593	58.47	ug/ml	92
20) Hexachloropropene	8.467	213	3162521	72.03	ug/ml	97
21) Caprolactam	9.113	55	1843902	61.56	ug/ml#	20
22) N-Nitrosodibutylamine	9.107	84	3941782	61.27	ug/ml#	45
23) 1,4-Phenylenediamine	9.136	108	3566760	60.79	ug/ml#	48
24) Isosafrole	9.525	162	4476122	56.49	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.046	216	5801984	56.47	ug/ml	99
27) Safrole	10.658	162	4555723	57.25	ug/ml	93
28) Biphenyl	10.721	154	11612565	51.39	ug/ml	96
29) 1-Chloronaphthalene	10.784	162	9709856	53.84	ug/ml#	97
30) Diphenyl ether	10.961	170	7150446	54.05	ug/ml	94
31) 1,4-Naphthoquinone	11.139	158	2882542	53.43	ug/ml	89
32) Pentachlorobenzene	12.375	250	5362558	56.45	ug/ml	99
33) 1-Naphthylamine	12.649	143	7863827	56.28	ug/ml#	93
34) 2-Naphthylamine	12.844	115	3424025	55.60	ug/ml	91
35) 5-Nitro-o-toluidine	13.342	152	2924016	60.25	ug/ml	92
37) Diallate	14.326	86	3351819	55.37	ug/ml	91
38) 1,3,5-Trinitrobenzene	14.297	75	1977984	61.34	ug/ml	91
39) Phenacetin	14.435	108	4828568	61.10	ug/ml	95
40) Atrazine	14.915	200	3620968	58.62	ug/ml#	70
41) 4-Aminobiphenyl	15.024	169	7953516	51.23	ug/ml	96
42) Pentachloronitrobenzene	15.013	237	1667925	59.80	ug/ml#	95
43) Pronamide	15.196	173	5291565	58.73	ug/ml#	86
44) 4-Nitroquinoline-N-oxide	16.529	190	1021090	57.12	ug/ml	96
45) Methapyrilene	16.649	58	4066152	53.51	ug/ml#	49

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

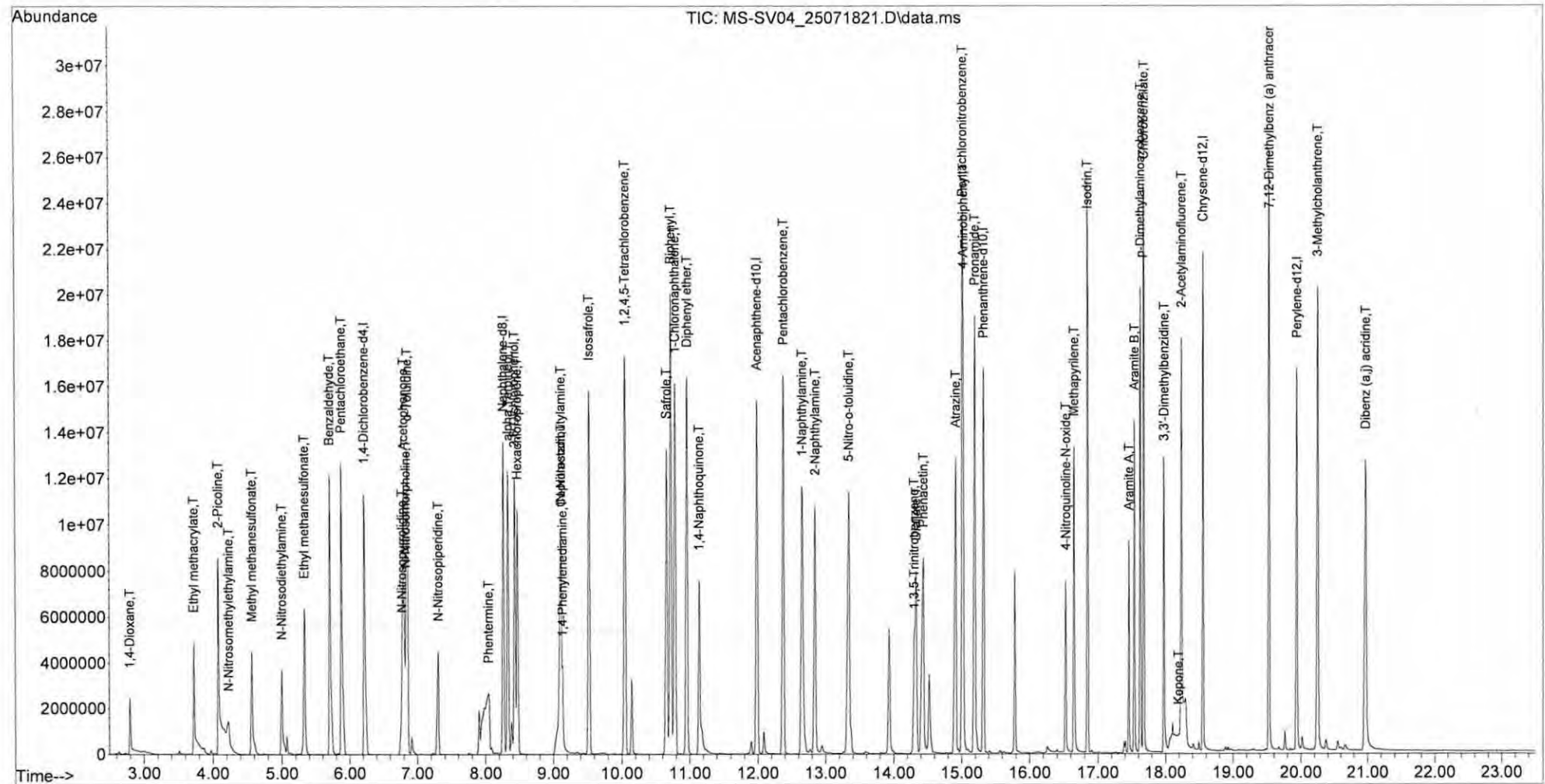
Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.844	193	2083163	53.90	ug/ml	91
47) 3,3'-Dimethylbenzidine	17.977	212	5320331	53.04	ug/ml	98
49) Aramite A	17.456	185	781064	63.17	ug/ml#	62
50) Aramite B	17.536	185	1610401	62.87	ug/ml#	70
51) p-Dimethylaminoazobenzene	17.628	120	3964880	57.62	ug/ml	90
52) Chlorobenzilate	17.679	251	5322162	61.21	ug/ml	88
53) Kepone	18.188	272	1037003m	51.67	ug/ml	
54) 2-Acetylaminofluorene	18.234	181	5421202	60.85	ug/ml	96
56) 7,12-Dimethylbenz (a) ...	19.533	256	6856798	60.67	ug/ml	99
57) 3-Methylcholanthrene	20.248	268	6856039	61.46	ug/ml#	95
58) Dibenz (a,j) acridine	20.969	279	9912548	63.47	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

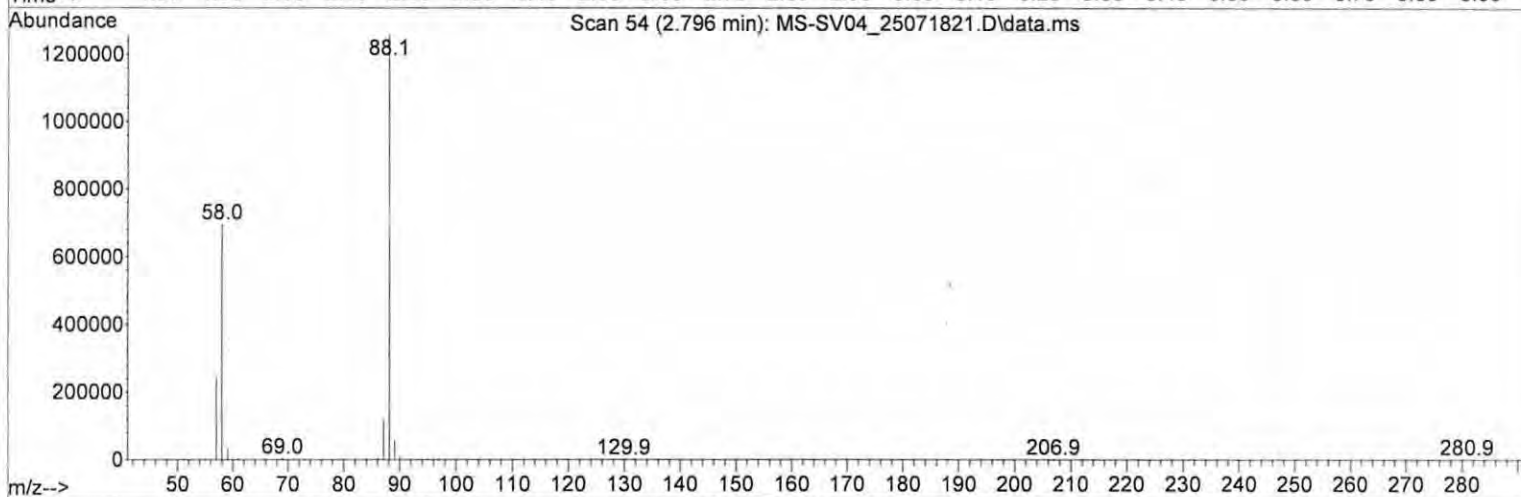
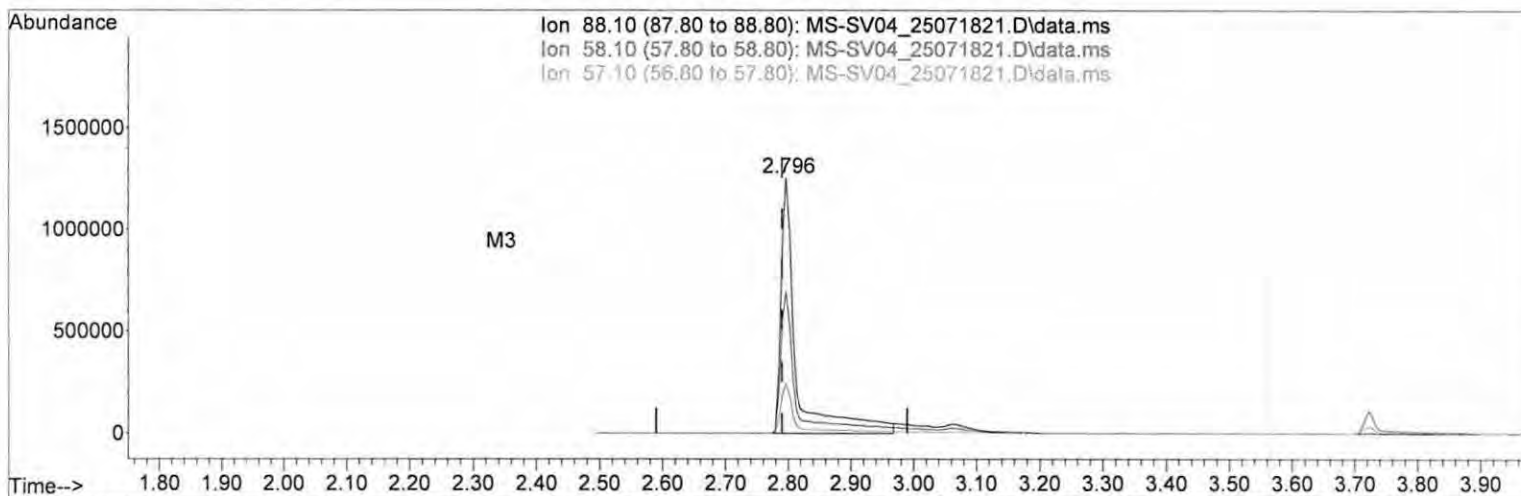
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071821.D\data.ms

(2) 1,4-Dioxane (T)

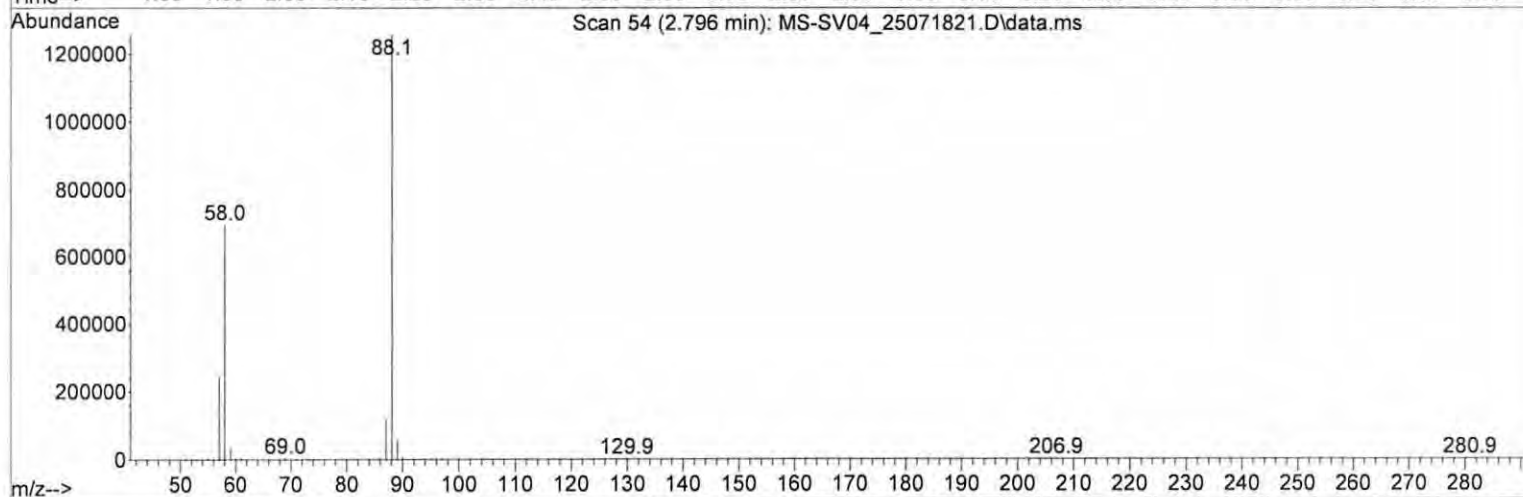
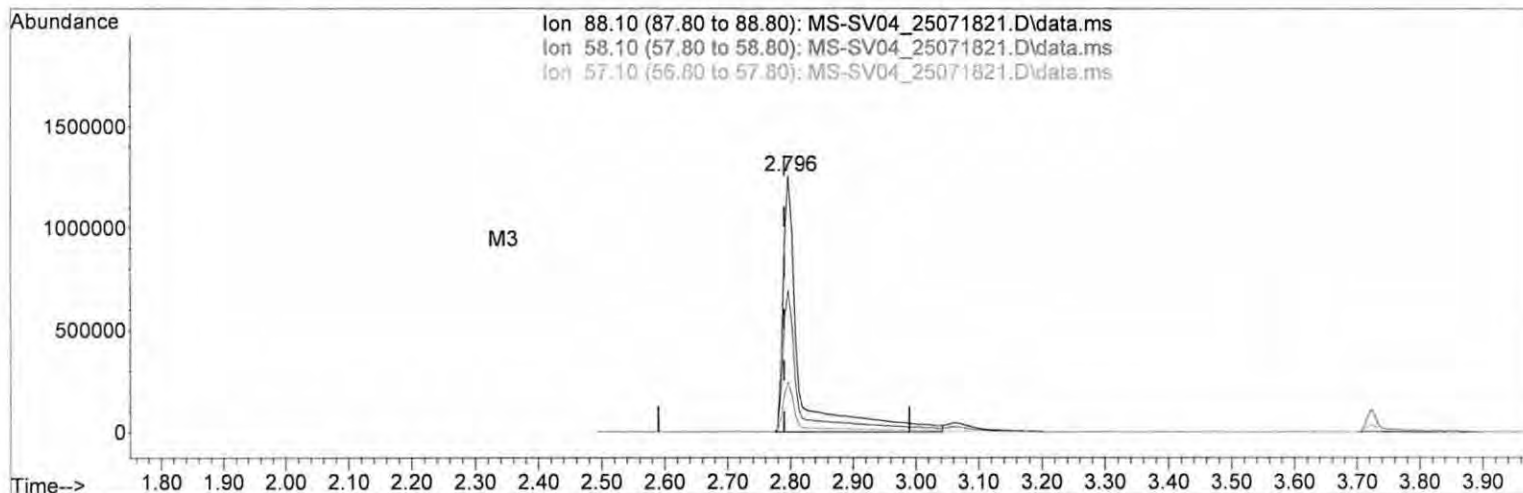
2.796min (+ 0.006) 68.56 ug/ml

response 2143327

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.94#
57.10	37.00	18.65#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071821.D\data.ms

(2) 1,4-Dioxane (T)

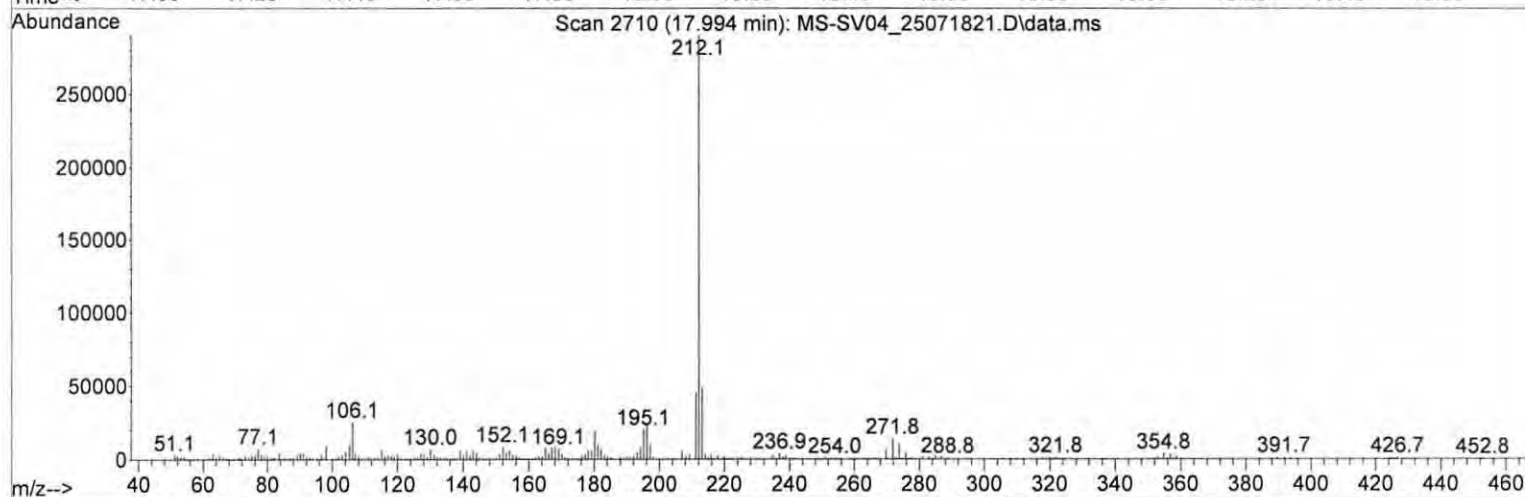
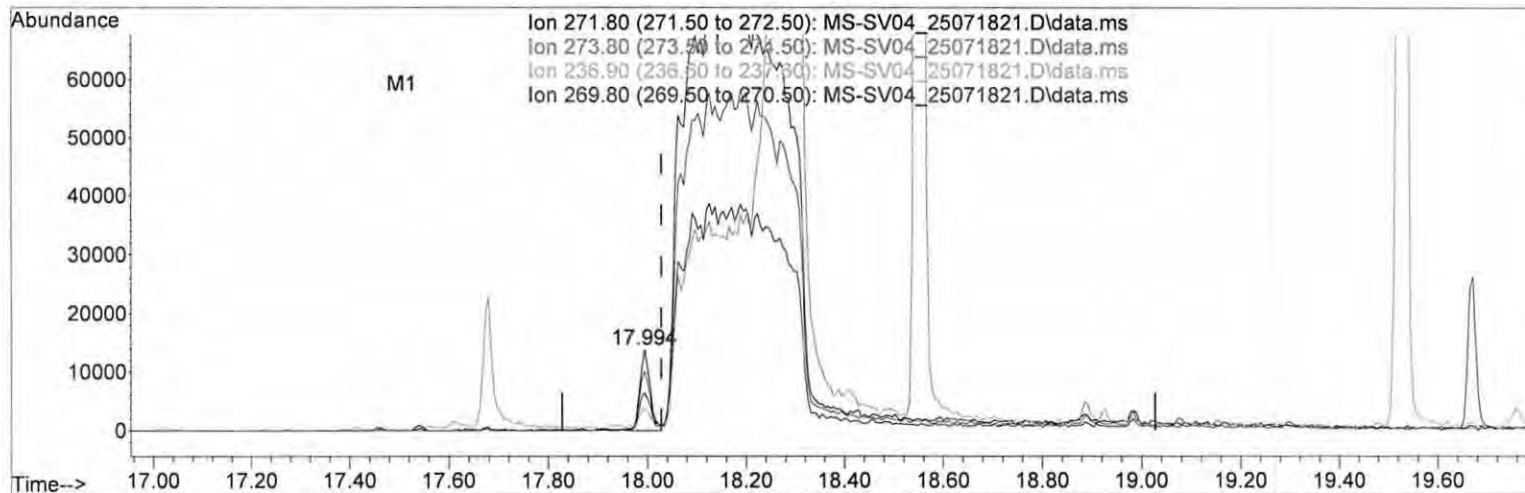
2.796min (+ 0.006) 74.11 ug/ml m

response 2316868

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	51.75#
57.10	37.00	17.26#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071821.D\data.ms

(53) Kepone (T)

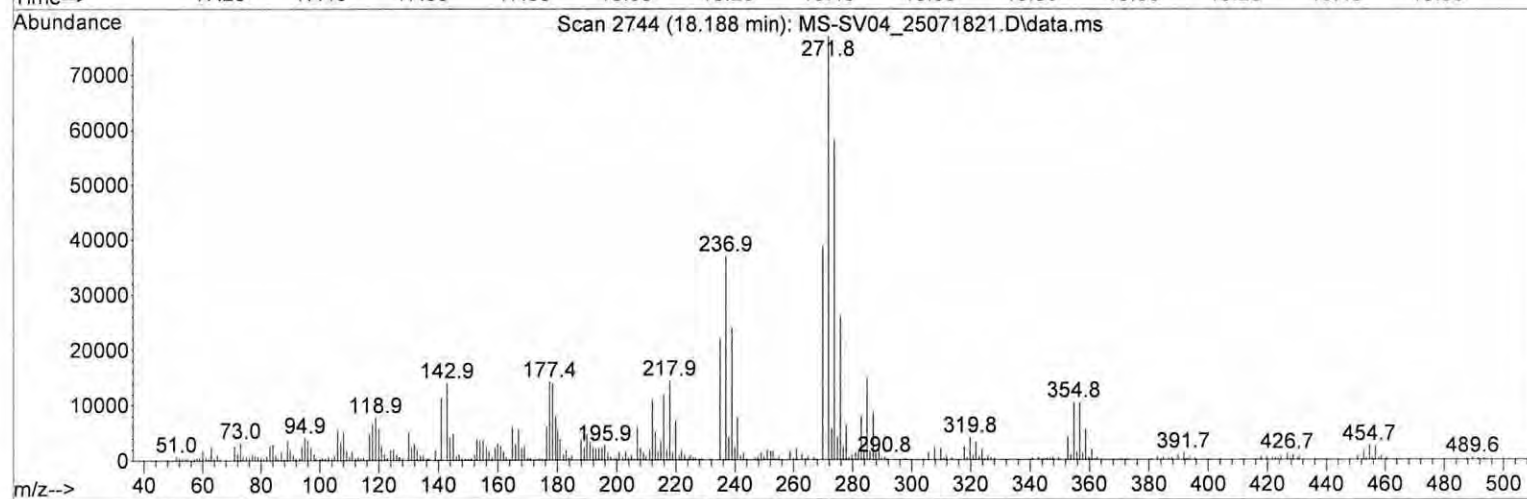
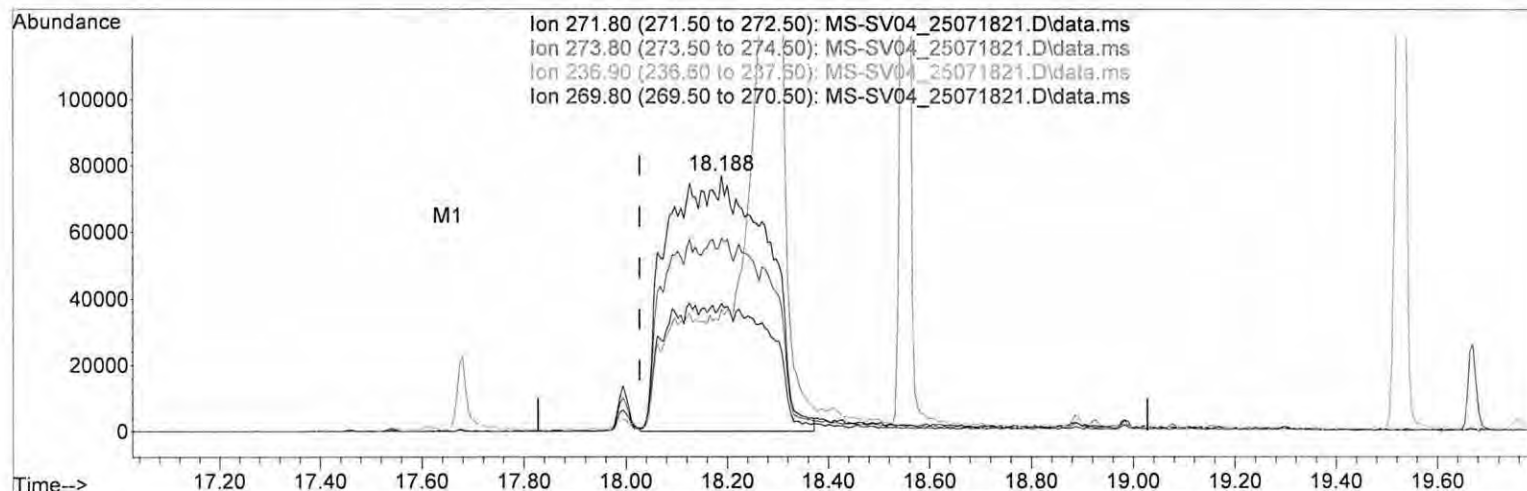
17.994min (-0.034) 0.99 ug/ml

response 19895

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	77.75
236.90	53.80	27.64#
269.80	10.10	53.53#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071821.D
Acq On : 18 Jul 2025 11:54 pm
Operator : BMS
Sample : SEQ-CALE
Misc : APIX
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 11:22:51 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071821.D\data.ms

(53) Kepone (T)

18.188min (+ 0.160) 51.67 ug/ml m

response 1037003

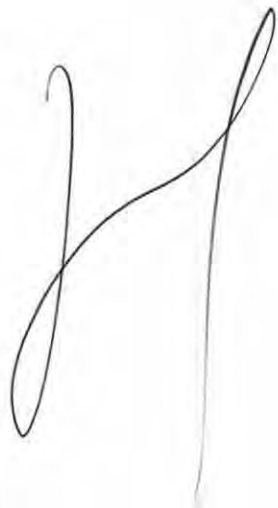
Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	1.49#
236.90	53.80	0.53#
269.80	10.10	1.03#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071822.D
 Acq On : 19 Jul 2025 12:22 am
 Operator : BMS
 Sample : SEQ-CALF
 Misc : APIX
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	5135500	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	10026614	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	6306560	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.327	188	9510053	40.00	ug/ml	# 0.00
48) Chrysene-d12	18.555	240	8054472	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	8171157	40.00	ug/ml	# 0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.796	88	2902043m	93.60	ug/ml	
3) Ethyl methacrylate	3.723	69	5628656	77.81	ug/ml	99
4) 2-Picoline	4.078	93	7574880	77.68	ug/ml	95
5) N-Nitrosomethylethylamine	4.232	88	3417802	75.26	ug/ml#	75
6) Methyl methanesulfonate	4.570	80	3535744	67.21	ug/ml#	91
7) N-Nitrosodiethylamine	5.005	102	3435779	71.37	ug/ml#	55
8) Ethyl methanesulfonate	5.337	79	4556067	69.01	ug/ml	95
9) Benzaldehyde	5.709	106	4897717	64.54	ug/ml#	86
10) Pentachloroethane	5.875	167	3280515	73.03	ug/ml	95
11) Acetophenone	6.802	105	8690244	66.64	ug/ml#	88
12) N-Nitrosomorpholine	6.836	56	2840486	65.94	ug/ml#	45
13) N-Nitrosopyrrolidine	6.784	100	3235041	72.75	ug/ml	98
14) o-Toluidine	6.859	106	8461381	62.73	ug/ml	99
15) N-Nitrosopiperidine	7.311	114	3478574	71.78	ug/ml#	54
16) Phentermine	8.066	58	11561670	75.61	ug/ml#	89
18) alpha Terpineol	8.329	59	3209345	70.04	ug/ml#	31
19) 2,6-Dichlorophenol	8.432	162	5275630	75.71	ug/ml#	92
20) Hexachloropropene	8.472	213	4149576	96.30	ug/ml	98
21) Caprolactam	9.130	55	2295898	77.65	ug/ml#	16
22) N-Nitrosodibutylamine	9.113	84	4950812	78.41	ug/ml#	46
23) 1,4-Phenylenediamine	9.148	108	4364134	75.33	ug/ml#	48
24) Isosafrole	9.531	162	5601489	72.03	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.052	216	7207650	71.48	ug/ml	99
27) Safrole	10.664	162	5759265	73.31	ug/ml	93
28) Biphenyl	10.727	154	14177723	63.55	ug/ml	95
29) 1-Chloronaphthalene	10.790	162	11977897	67.27	ug/ml#	96
30) Diphenyl ether	10.962	170	8843885	67.72	ug/ml	94
31) 1,4-Naphthoquinone	11.145	158	3331339	62.55	ug/ml	89
32) Pentachlorobenzene	12.381	250	6822286	72.74	ug/ml	98
33) 1-Naphthylamine	12.655	143	9829937	71.26	ug/ml#	93
34) 2-Naphthylamine	12.844	115	4266593	70.17	ug/ml	91
35) 5-Nitro-o-toluidine	13.348	152	3775679	78.41	ug/ml	93
37) Diallate	14.326	86	4066714	67.94	ug/ml	87
38) 1,3,5-Trinitrobenzene	14.303	75	2557392	79.47	ug/ml	90
39) Phenacetin	14.446	108	6389911	81.25	ug/ml	94
40) Atrazine	14.921	200	4516548	73.95	ug/ml#	70
41) 4-Aminobiphenyl	15.030	169	9752140	63.54	ug/ml	95
42) Pentachloronitrobenzene	15.013	237	2095001	75.97	ug/ml#	94
43) Pronamide	15.202	173	6703566	75.25	ug/ml#	84
44) 4-Nitroquinoline-N-oxide	16.529	190	1425053m	78.80	ug/ml	
45) Methapyrilene	16.649	58	4603463	61.28	ug/ml#	47



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

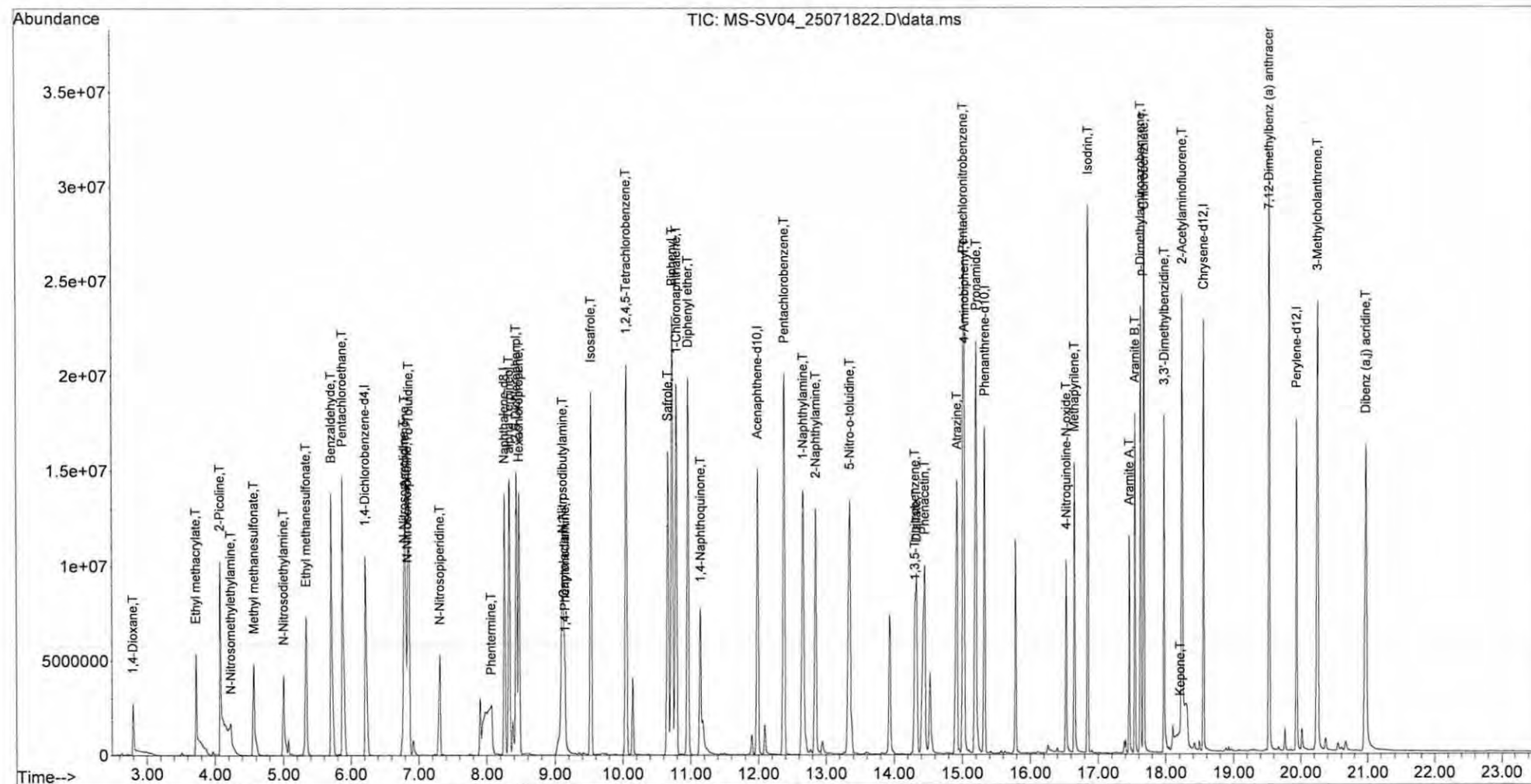
Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.850	193	2547645	66.67	ug/ml#	90
47) 3,3'-Dimethylbenzidine	17.977	212	6995254	70.54	ug/ml	97
49) Aramite A	17.456	185	1046156	80.52	ug/ml#	59
50) Aramite B	17.542	185	2070157	77.18	ug/ml#	69
51) p-Dimethylaminoazobenzene	17.628	120	5031027	70.11	ug/ml	88
52) Chlorobenzilate	17.679	251	6640850	73.24	ug/ml	87
53) Kepone	18.211	272	1161451m	55.49	ug/ml	
54) 2-Acetylaminofluorene	18.240	181	7186128	76.68	ug/ml	95
56) 7,12-Dimethylbenz (a) ...	19.533	256	8850515	76.49	ug/ml	98
57) 3-Methylcholanthrene	20.254	268	9190911	80.47	ug/ml#	94
58) Dibenz (a,j) acridine	20.975	279	12916103	80.57	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

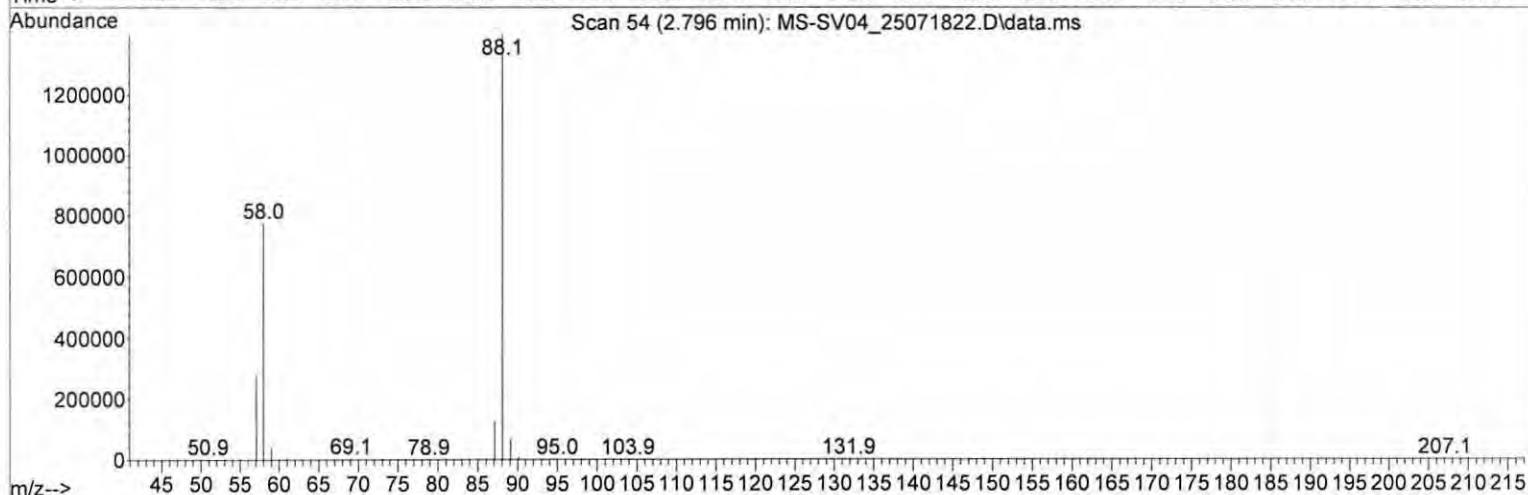
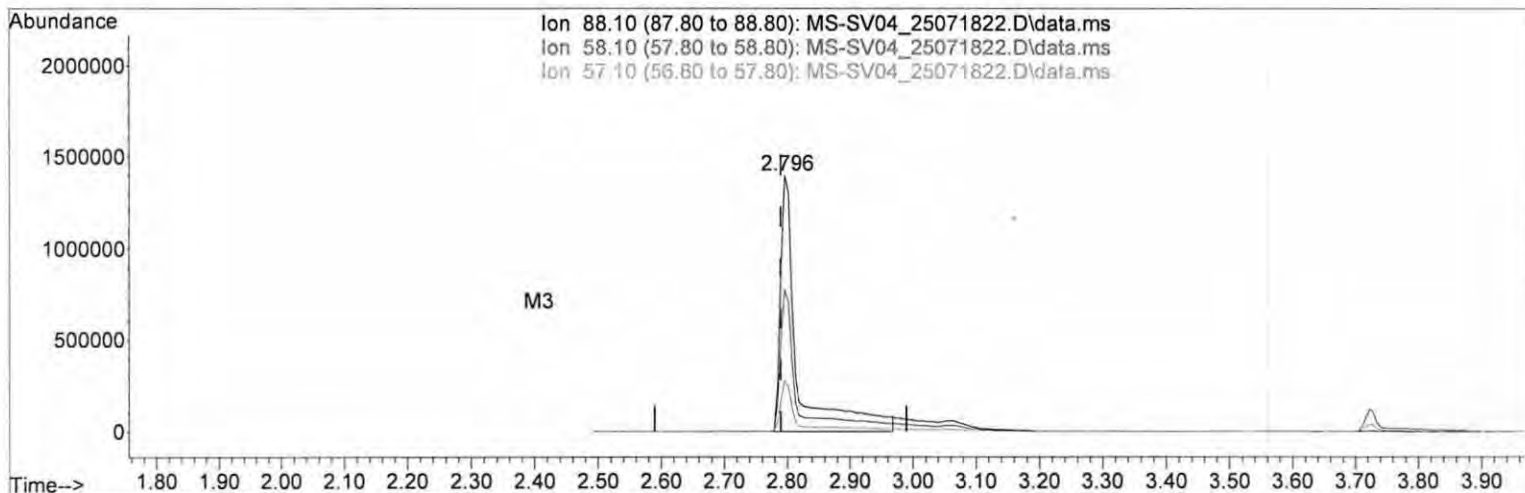
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071822.D\data.ms

(2) 1,4-Dioxane (T)

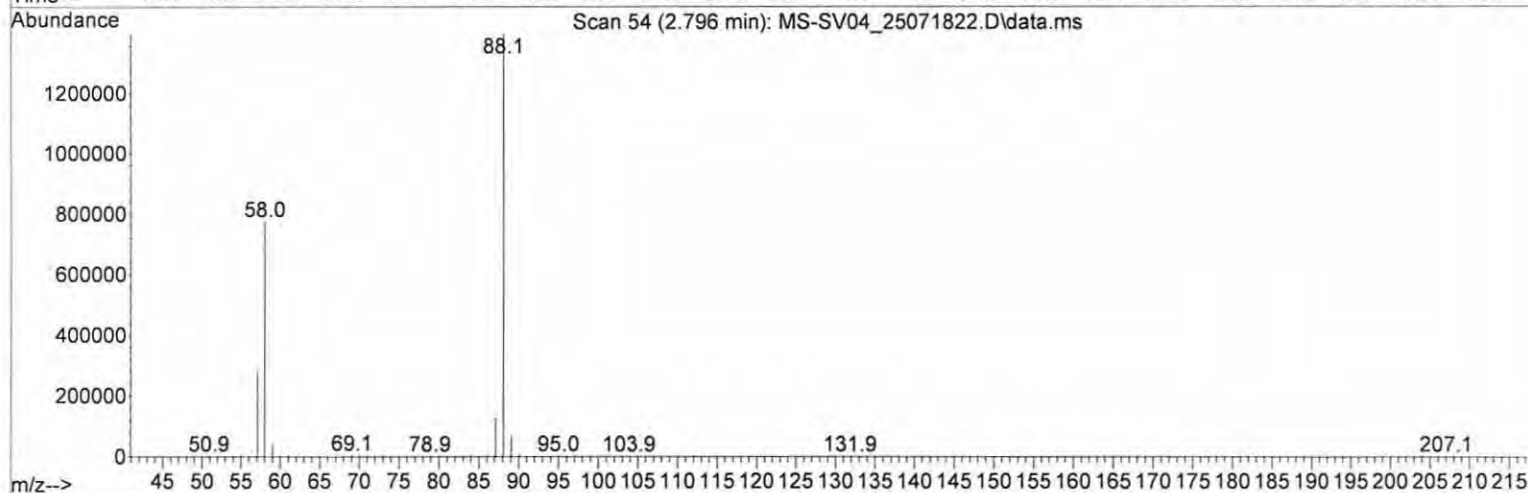
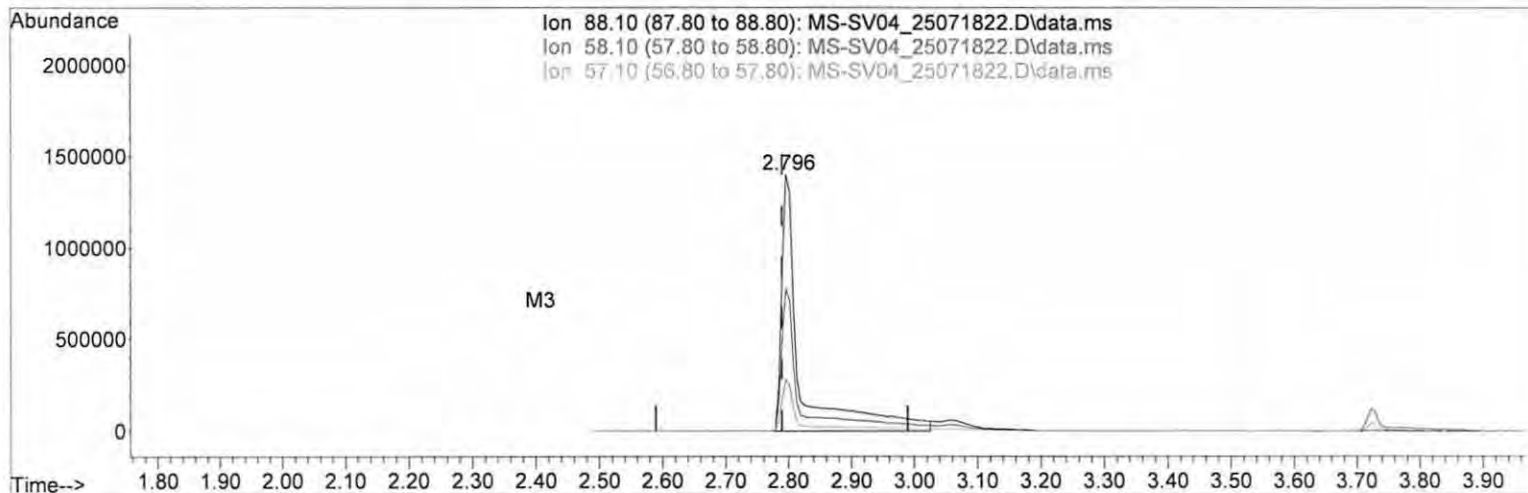
2.796min (+ 0.006) 86.53 ug/ml

response 2682925

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.57#
57.10	37.00	14.02#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071822.D\data.ms

(2) 1,4-Dioxane (T)

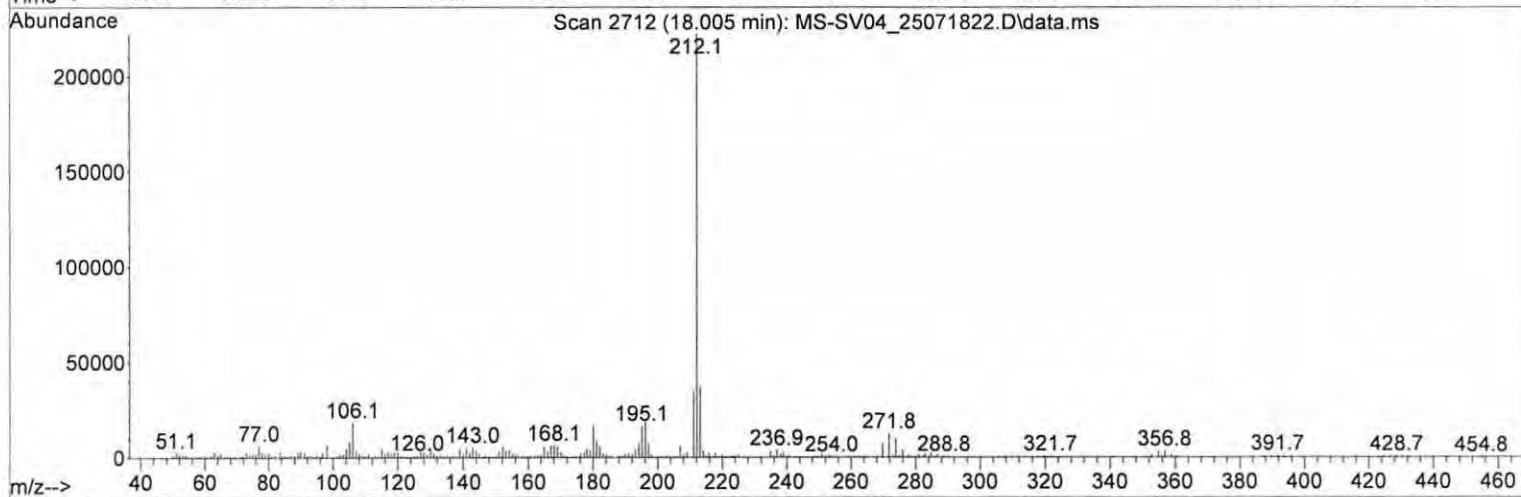
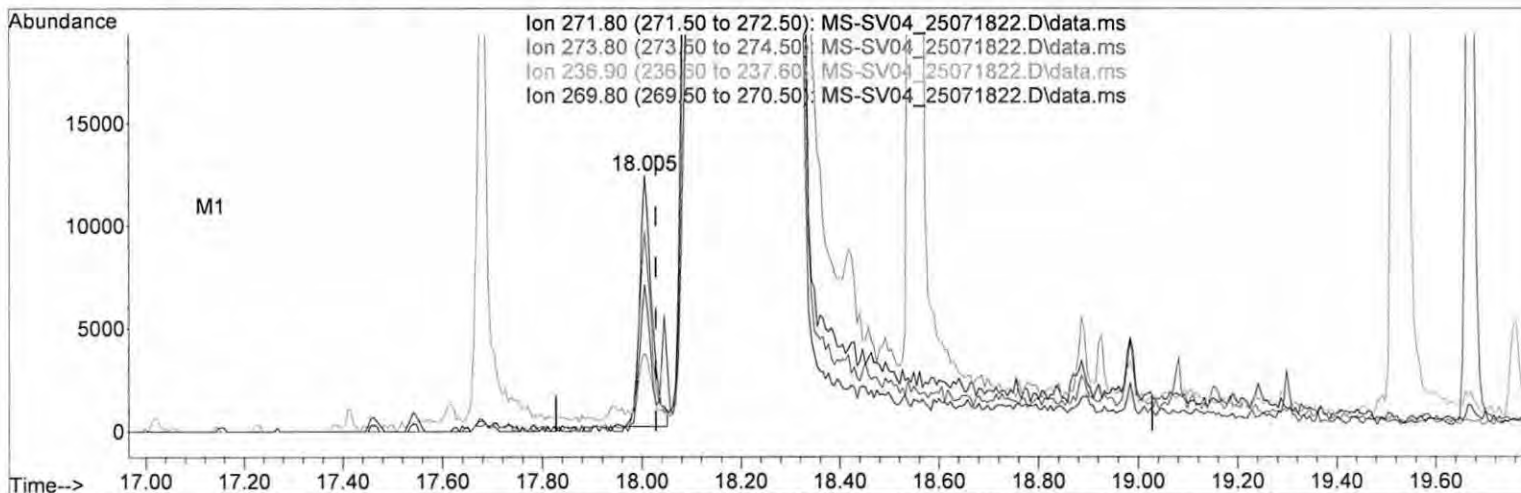
2.796min (+ 0.006) 93.60 ug/ml m

response 2902043

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	51.37#
57.10	37.00	12.97#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071822.D\data.ms

(53) Kepone (T)

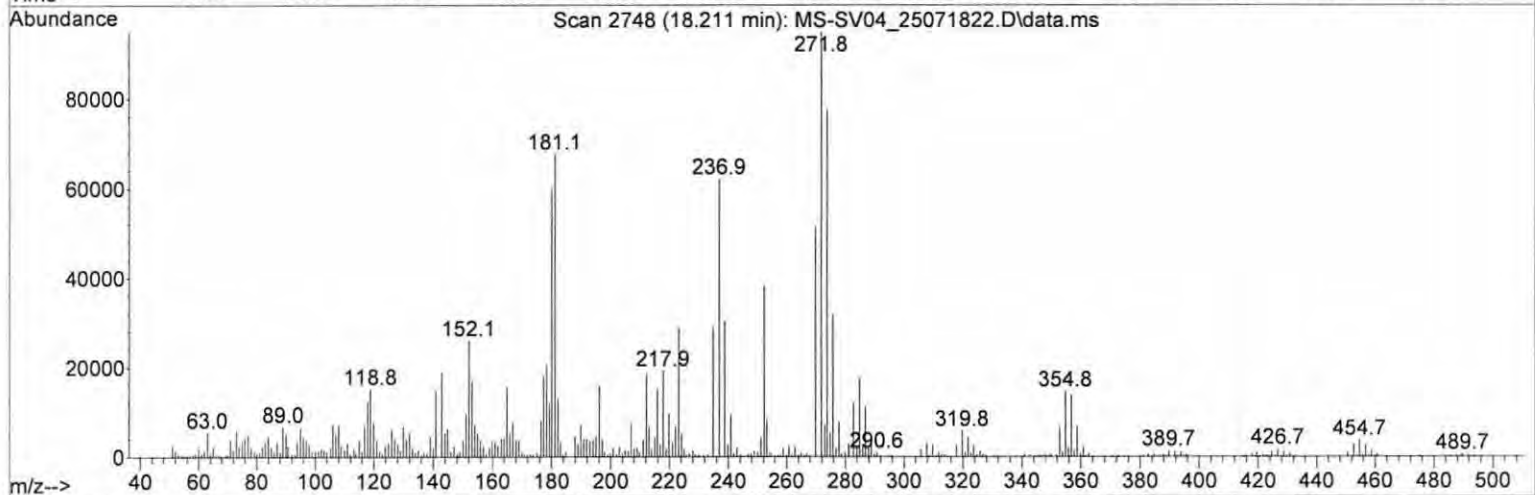
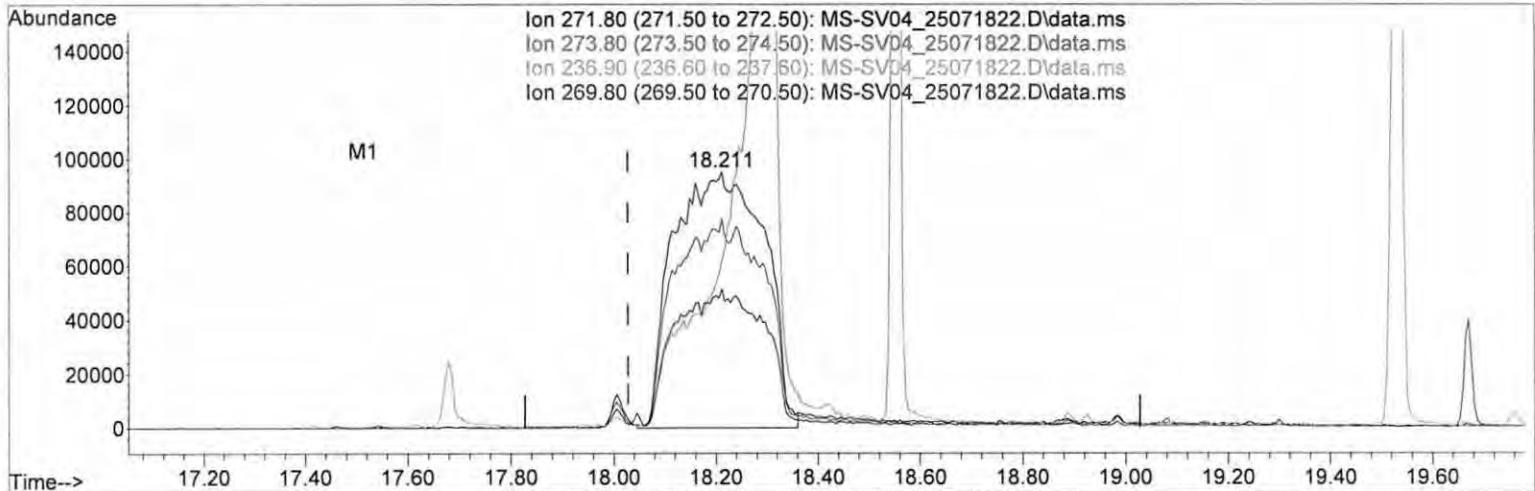
18.005min (-0.023) 0.99 ug/ml

response 20643

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	81.73
236.90	53.80	23.37#
269.80	10.10	53.37#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071822.D\data.ms

(53) Kepone (T)

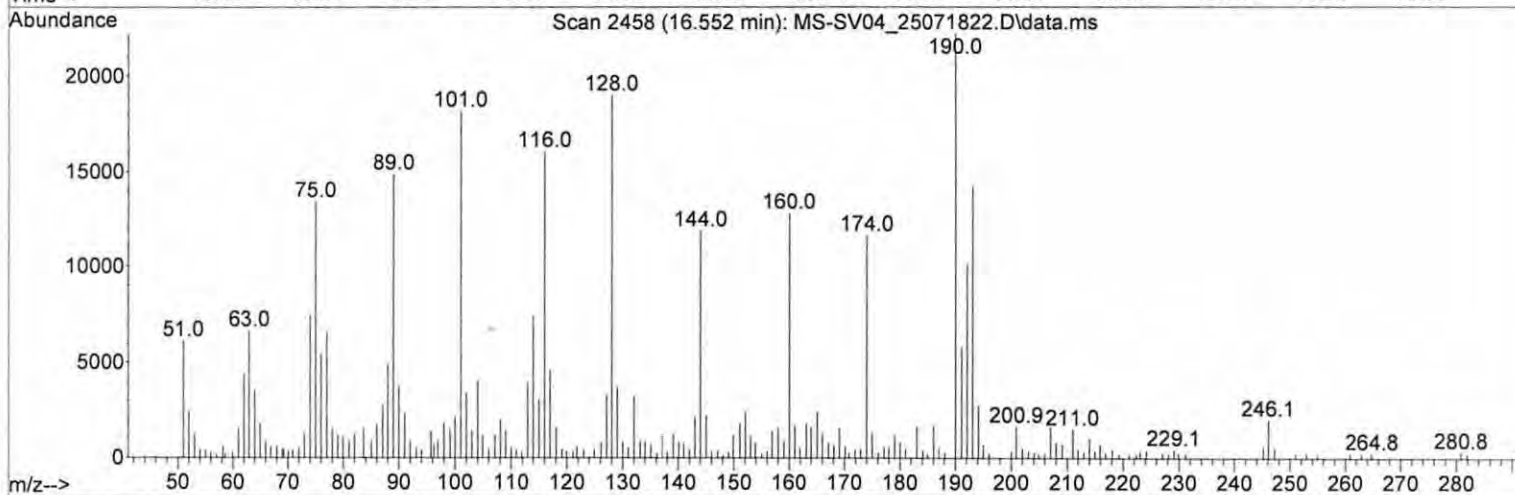
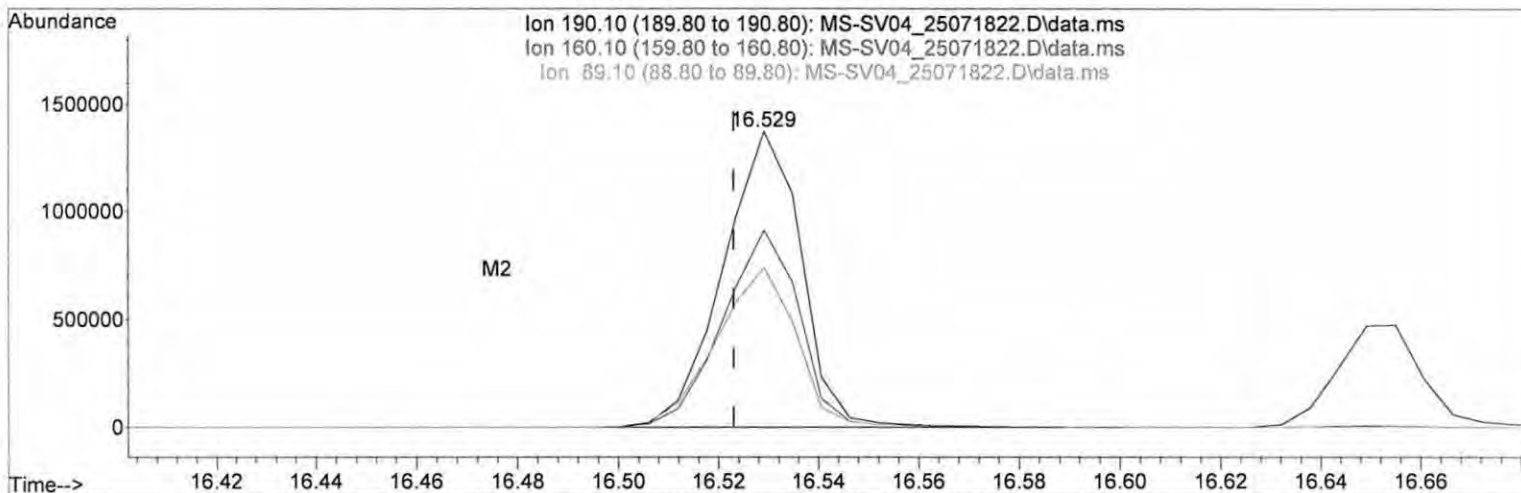
18.211min (+ 0.183) 55.49 ug/ml m

response 1161451

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	1.45#
236.90	53.80	0.42#
269.80	10.10	0.95#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071822.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

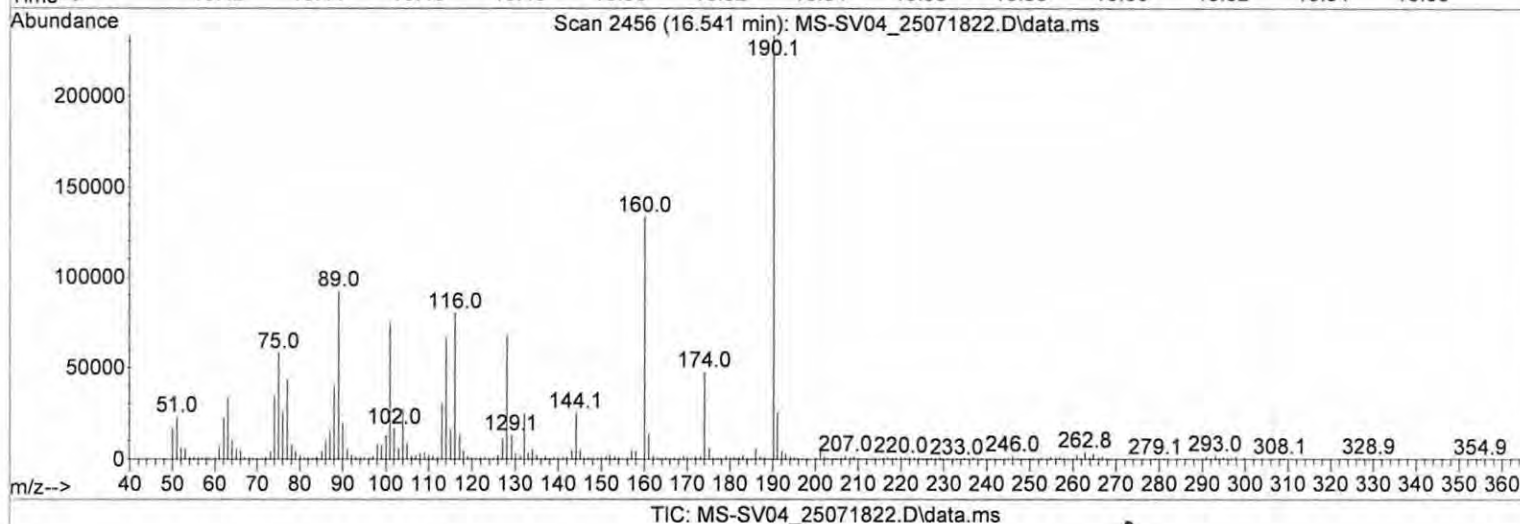
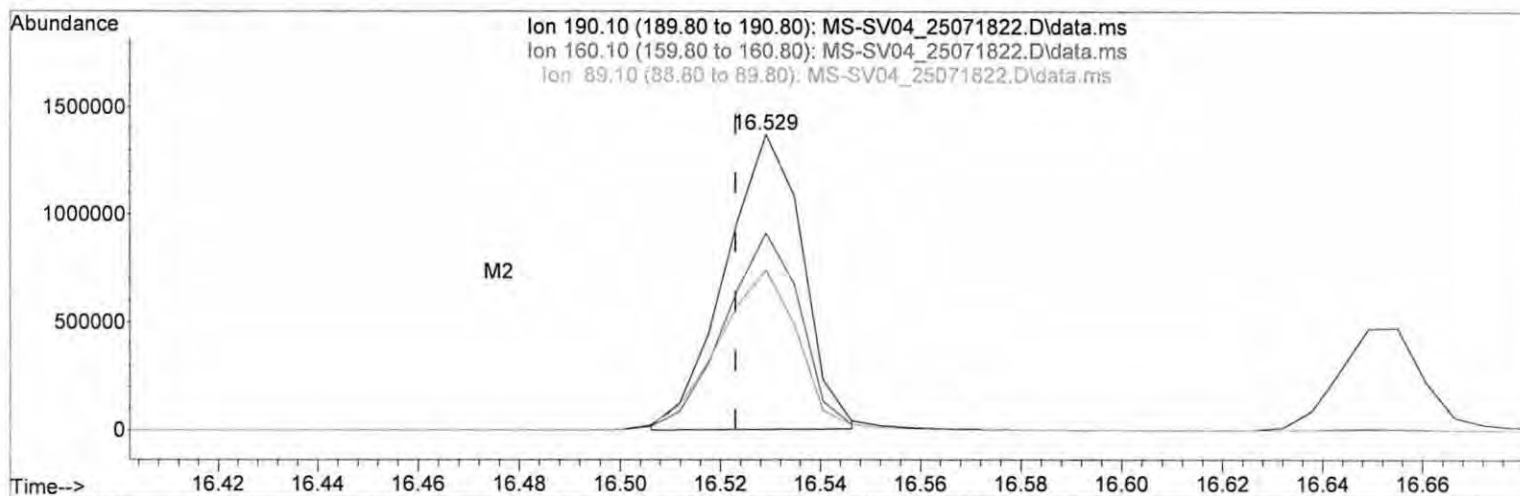
16.529min (+ 0.006) 82.71 ug/ml

response 1499950

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	65.21
89.10	52.80	55.31
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071822.D
Acq On : 19 Jul 2025 12:22 am
Operator : BMS
Sample : SEQ-CALF
Misc : APIX
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 11:22:53 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

16.529min (+ 0.006) 80.63 ug/ml m

response 1459972

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	67.00
89.10	52.80	56.83
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071823.D
 Acq On : 19 Jul 2025 12:51 am
 Operator : BMS
 Sample : SEQ-CALG
 Misc : APIX
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 QLast Update : Wed Jul 23 11:22:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	2999540	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	6366816	40.00	ug/ml	0.00
26) Acenaphthene-d10	11.980	164	3899169	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.322	188	5978659m	40.00	ug/ml	0.00
48) Chrysene-d12	18.549	240	4833094	40.00	ug/ml	0.00
55) Perylene-d12	19.934	264	4104824	40.00	ug/ml	# 0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.779	88	2907096m	160.53	ug/ml	
3) Ethyl methacrylate	3.717	69	5128553m	121.38	ug/ml	
4) 2-Picoline	4.066	93	6432114m	112.93	ug/ml	
5) N-Nitrosomethylethylamine	4.221	88	3116604	117.50	ug/ml#	74
6) Methyl methanesulfonate	4.559	80	3036806	98.83	ug/ml#	91
7) N-Nitrosodiethylamine	4.999	102	3262217	116.02	ug/ml#	55
8) Ethyl methanesulfonate	5.337	79	4418092	114.57	ug/ml	95
9) Benzaldehyde	5.703	106	4197729	94.71	ug/ml#	86
10) Pentachloroethane	5.875	167	2976478	113.44	ug/ml	95
11) Acetophenone	6.796	105	8420336	110.56	ug/ml#	88
12) N-Nitrosomorpholine	6.836	56	2761773	109.77	ug/ml#	45
13) N-Nitrosopyrrolidine	6.779	100	3140738	120.93	ug/ml	98
14) o-Toluidine	6.859	106	7933352	100.70	ug/ml	99
15) N-Nitrosopiperidine	7.311	114	3338755	117.95	ug/ml#	55
16) Phentermine	8.060	58	11681237	128.71	ug/ml	98
18) alpha Terpineol	8.329	59	3132152	107.65	ug/ml#	31
19) 2,6-Dichlorophenol	8.432	162	5241556	118.45	ug/ml#	92
20) Hexachloropropene	8.472	213	3943561	144.13	ug/ml	98
21) Caprolactam	9.130	55	2238493	118.35	ug/ml#	17
22) N-Nitrosodibutylamine	9.113	84	4805586	119.86	ug/ml#	49
23) 1,4-Phenylenediamine	9.142	108	3644446	98.48	ug/ml#	48
24) Isosafrole	9.531	162	5448851	110.34	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.052	216	6977213	108.98	ug/ml	98
27) Safrole	10.664	162	5552977	114.33	ug/ml#	93
28) Biphenyl	10.727	154	13924551	100.95	ug/ml	95
29) 1-Chloronaphthalene	10.790	162	11657724	105.90	ug/ml#	97
30) Diphenyl ether	10.961	170	8593198	106.43	ug/ml	94
31) 1,4-Naphthoquinone	11.139	158	3123854	94.86	ug/ml	89
32) Pentachlorobenzene	12.381	250	6635791	114.43	ug/ml	98
33) 1-Naphthylamine	12.655	143	9293869	108.97	ug/ml#	92
34) 2-Naphthylamine	12.844	115	4116314	109.50	ug/ml	90
35) 5-Nitro-o-toluidine	13.348	152	3610623	120.58	ug/ml	92
37) Diallate	14.326	86	4020482	106.84	ug/ml	88
38) 1,3,5-Trinitrobenzene	14.297	75	2613571	127.68	ug/ml	89
39) Phenacetin	14.446	108	6254323	125.61	ug/ml	94
40) Atrazine	14.921	200	4417623	115.05	ug/ml#	70
41) 4-Aminobiphenyl	15.024	169	9384887	97.26	ug/ml	96
42) Pentachloronitrobenzene	15.013	237	2053784	118.47	ug/ml#	94
43) Pronamide	15.202	173	6607159	117.98	ug/ml#	84
44) 4-Nitroquinoline-N-oxide	16.529	190	1320871m	114.08	ug/ml	
45) Methapyrilene	16.649	58	3404460	72.08	ug/ml#	49

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

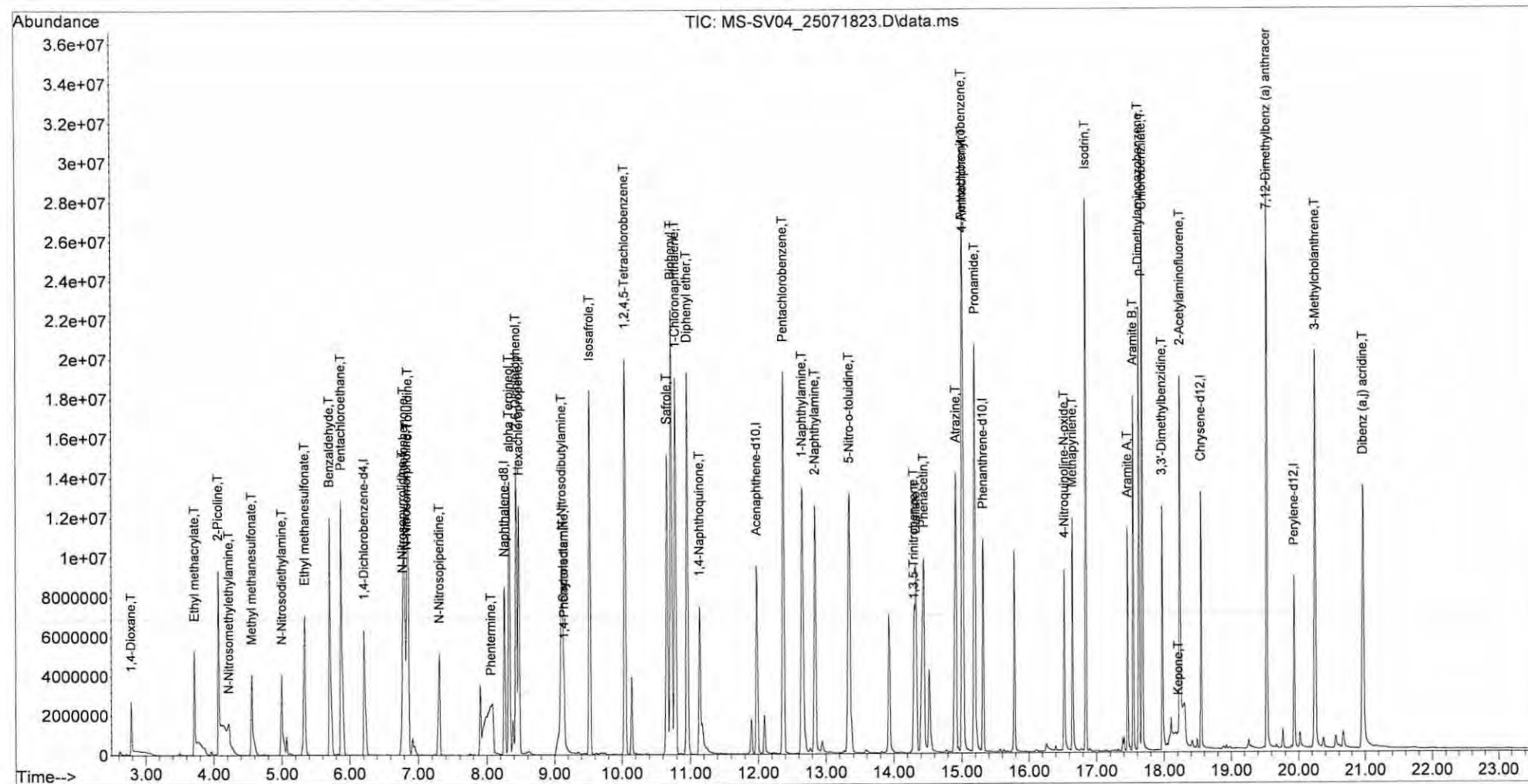
Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.849	193	2491502	103.71	ug/ml#	90
47) 3,3'-Dimethylbenzidine	17.971	212	5426676	87.04	ug/ml	98
49) Aramite A	17.456	185	1067978	135.49	ug/ml#	60
50) Aramite B	17.542	185	2085730	128.66	ug/ml#	70
51) p-Dimethylaminoazobenzene	17.628	120	4833907	112.26	ug/ml	89
52) Chlorobenzilate	17.679	251	6594025	121.20	ug/ml	86
53) Kepone	18.211	272	1181667m	94.09	ug/ml	
54) 2-Acetylaminofluorene	18.240	181	5945349	104.79	ug/ml	96
56) 7,12-Dimethylbenz (a) ...	19.533	256	7681945	132.15	ug/ml	98
57) 3-Methylcholanthrene	20.254	268	7505959	130.82	ug/ml#	95
58) Dibenz (a,j) acridine	20.969	279	10513042	130.07	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

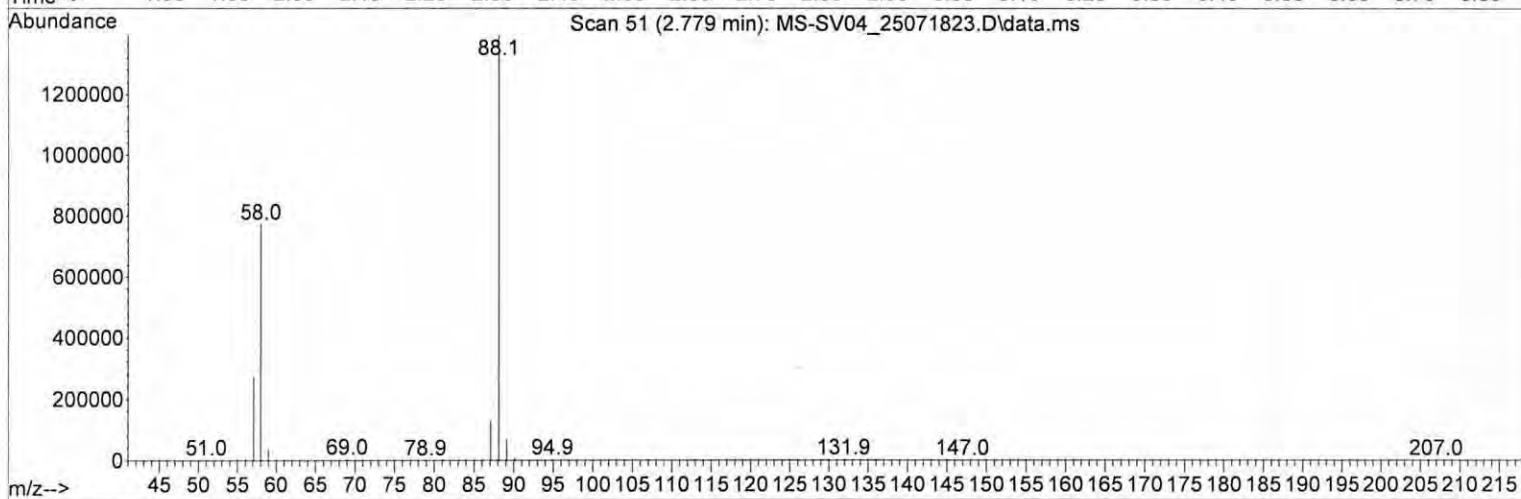
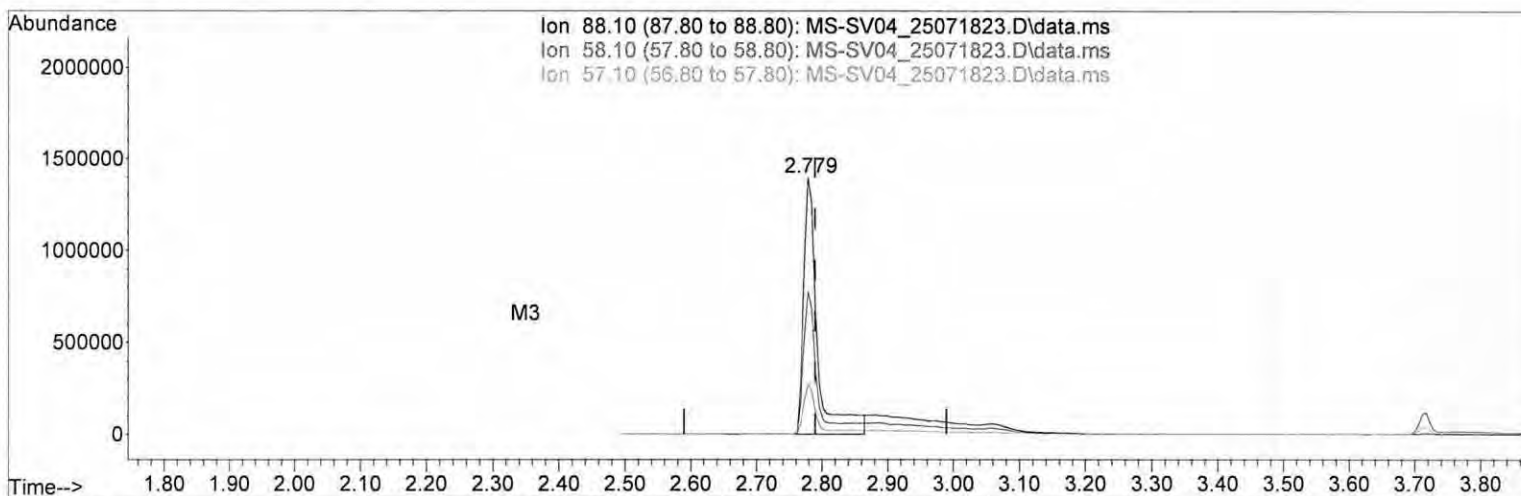
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(2) 1,4-Dioxane (T)

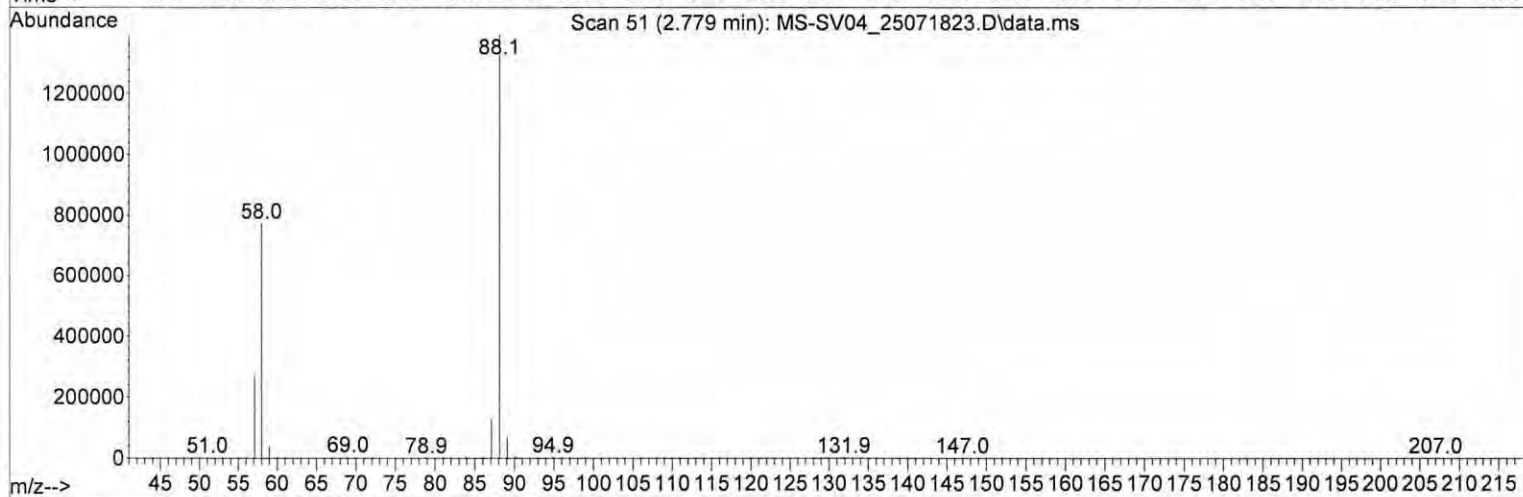
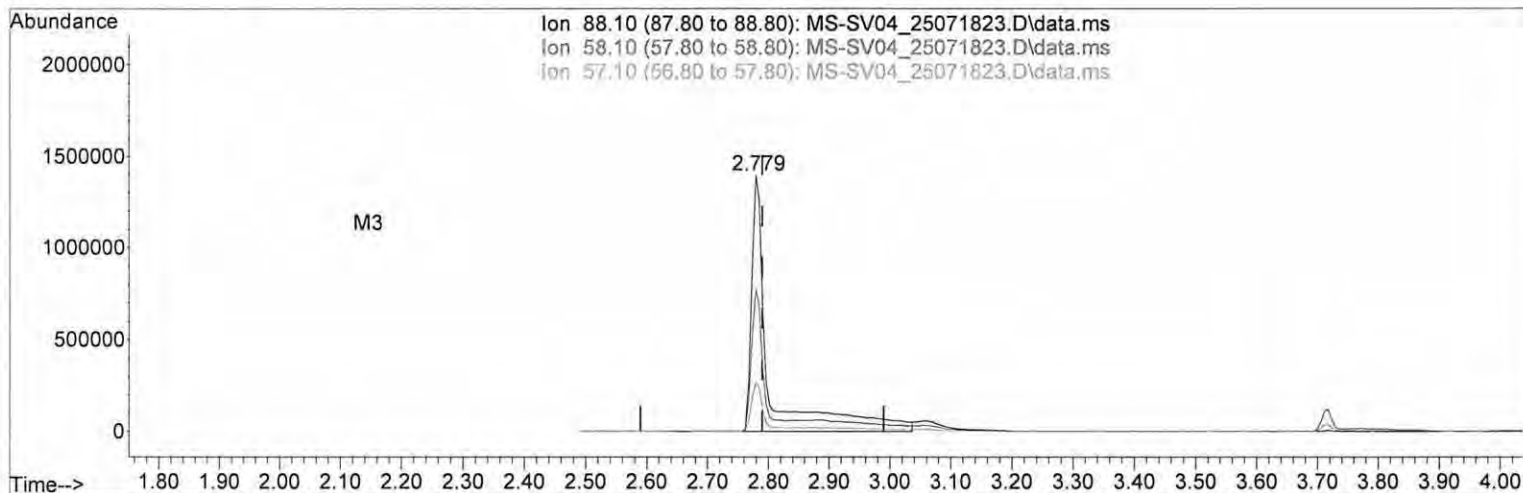
2.779min (-0.011) 115.74 ug/ml

response 2095986

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	49.50#
57.10	37.00	17.89#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(2) 1,4-Dioxane (T)

2.779min (-0.011) 160.53 ug/ml m

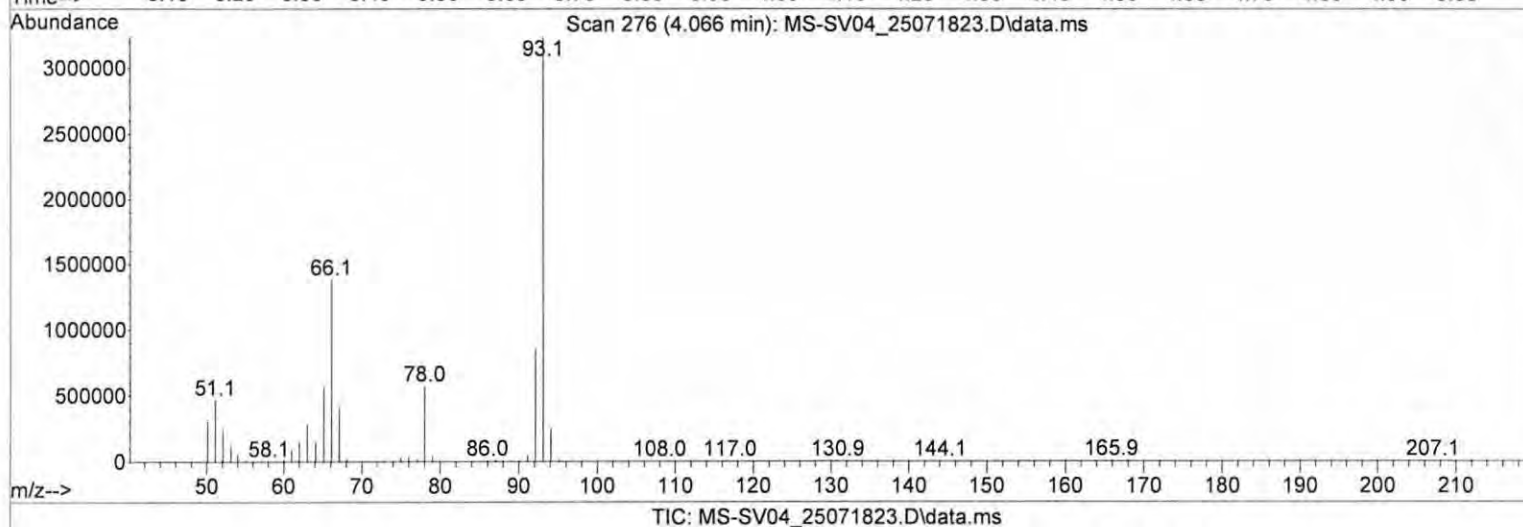
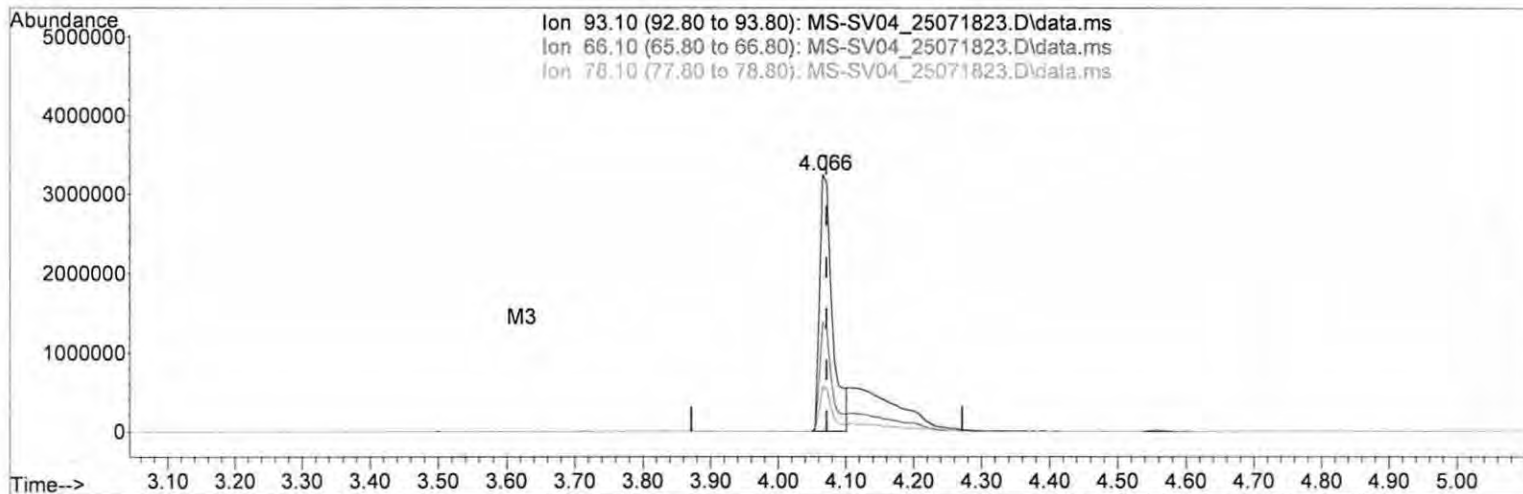
response 2907096

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	35.69#
57.10	37.00	12.90#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

257 of 521

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



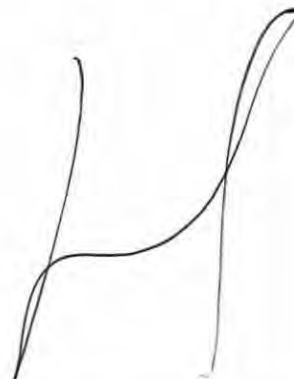
TIC: MS-SV04_25071823.D\data.ms

(4) 2-Picoline (T)

4.066min (-0.006) 73.52 ug/ml

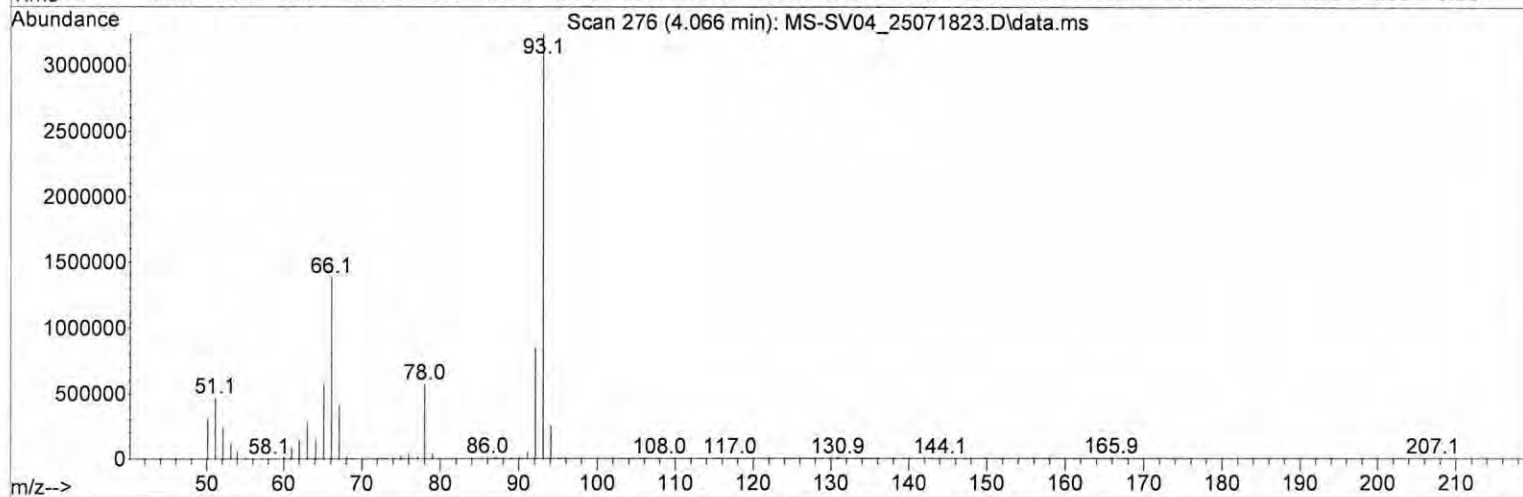
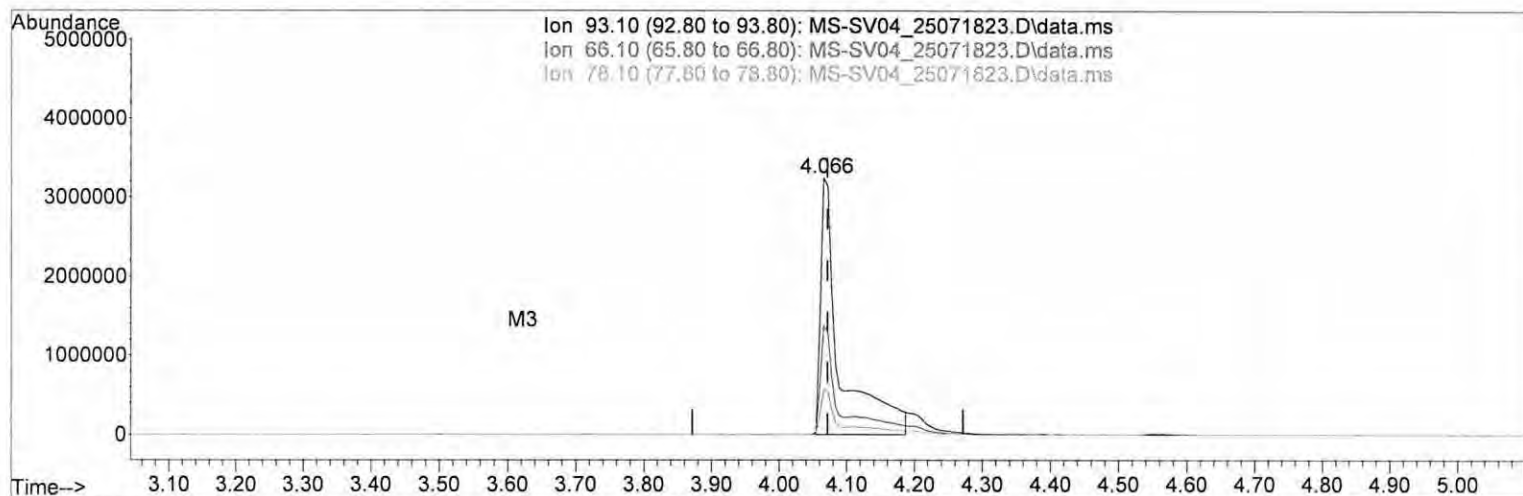
response 4187238

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	41.23
78.10	16.40	17.24
0.00	0.00	0.00



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(4) 2-Picoline (T)

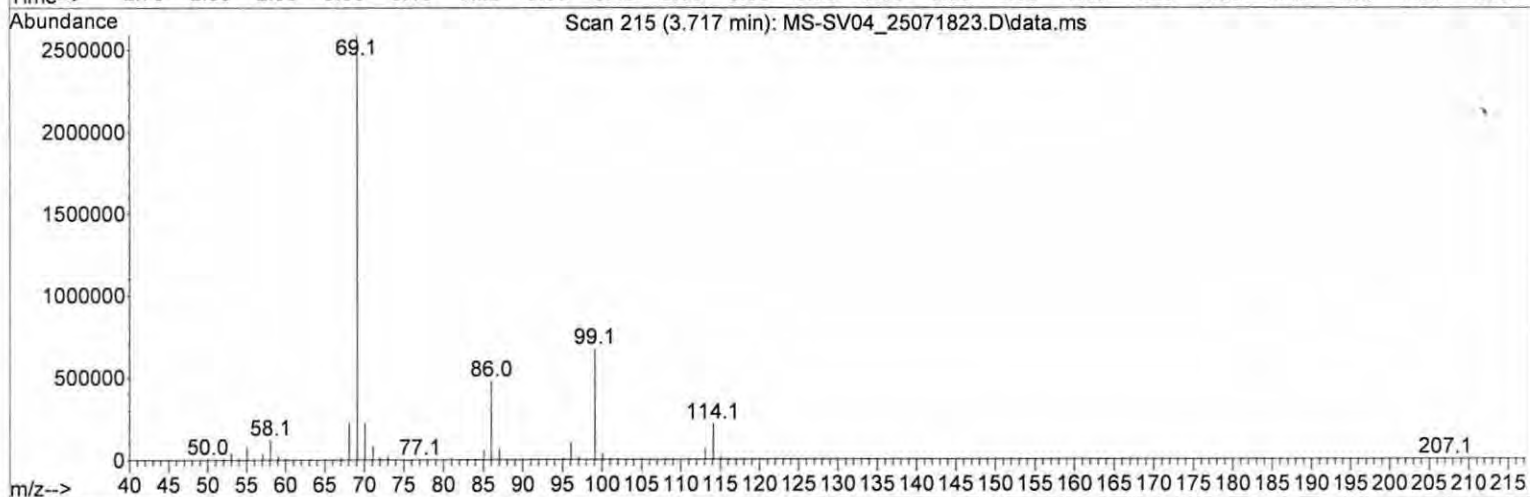
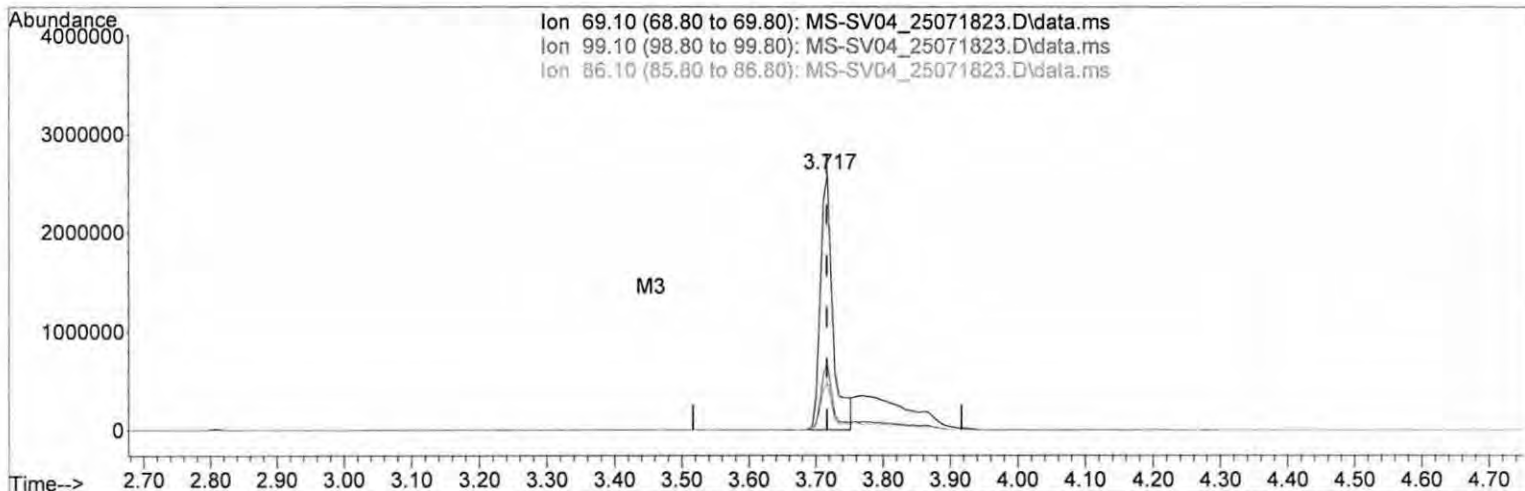
4.066min (-0.006) 112.93 ug/ml m

response 6432114

Ion	Exp%	Act%
93.10	100.00	100.00
66.10	45.10	26.84#
78.10	16.40	11.22#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(3) Ethyl methacrylate (T)

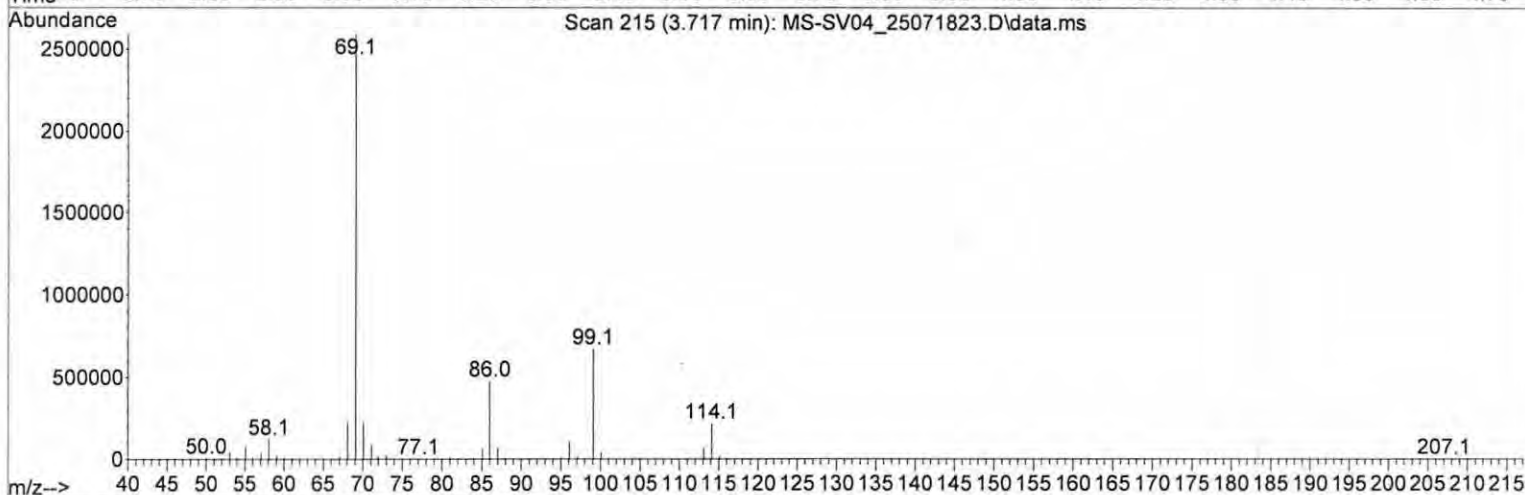
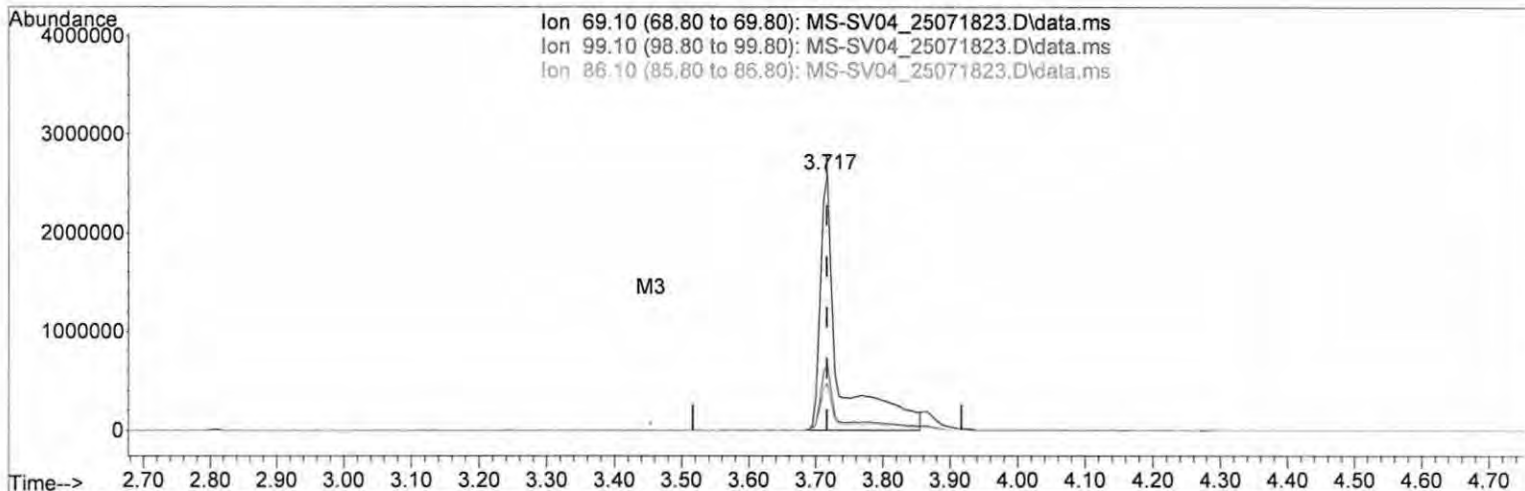
3.717min (+ 0.000) 81.15 ug/ml

response 3428707

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	24.09
86.10	17.40	17.32
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(3) Ethyl methacrylate (T)

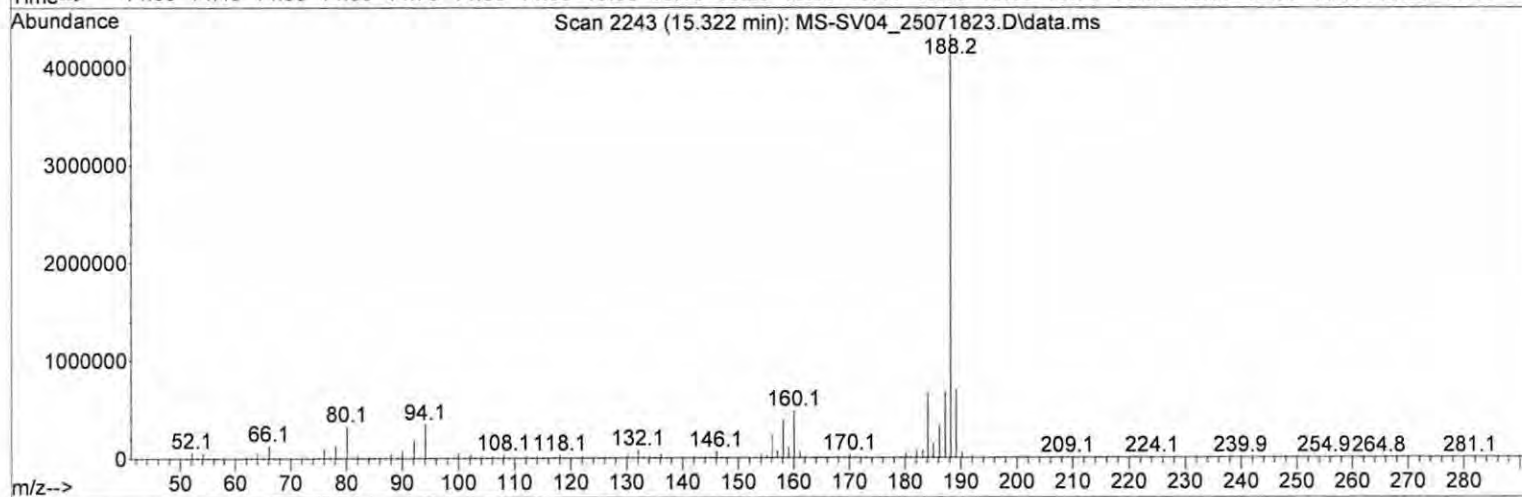
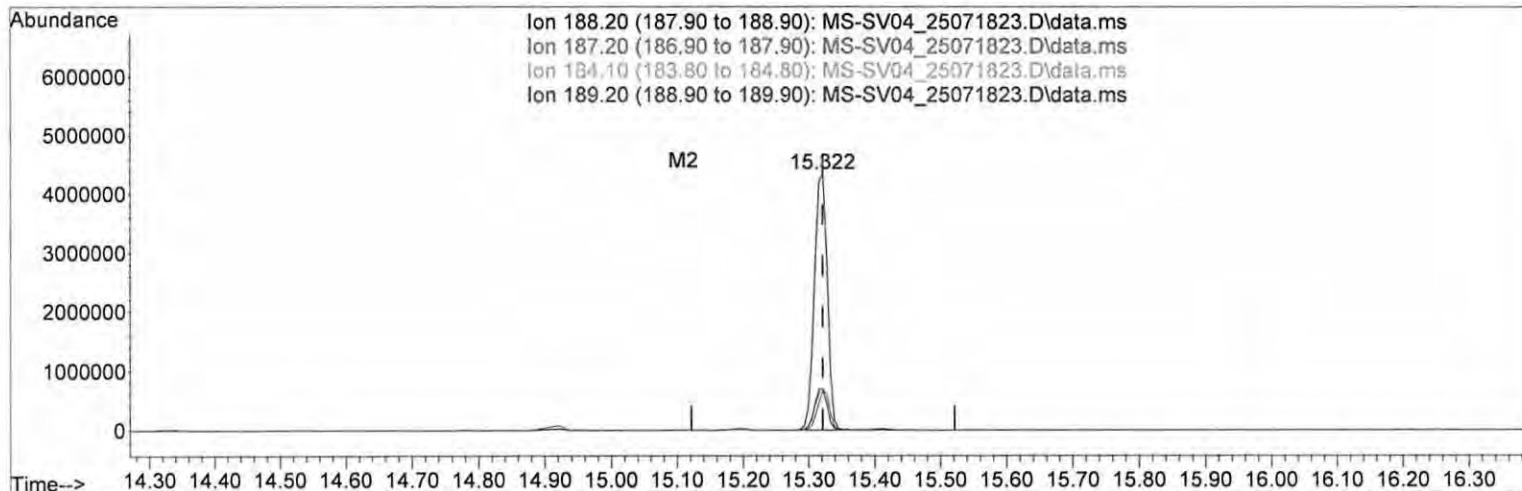
3.717min (+ 0.000) 121.38 ug/ml m

response 5128553

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	16.11#
86.10	17.40	11.58#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(36) Phenanthrene-d10 (I)

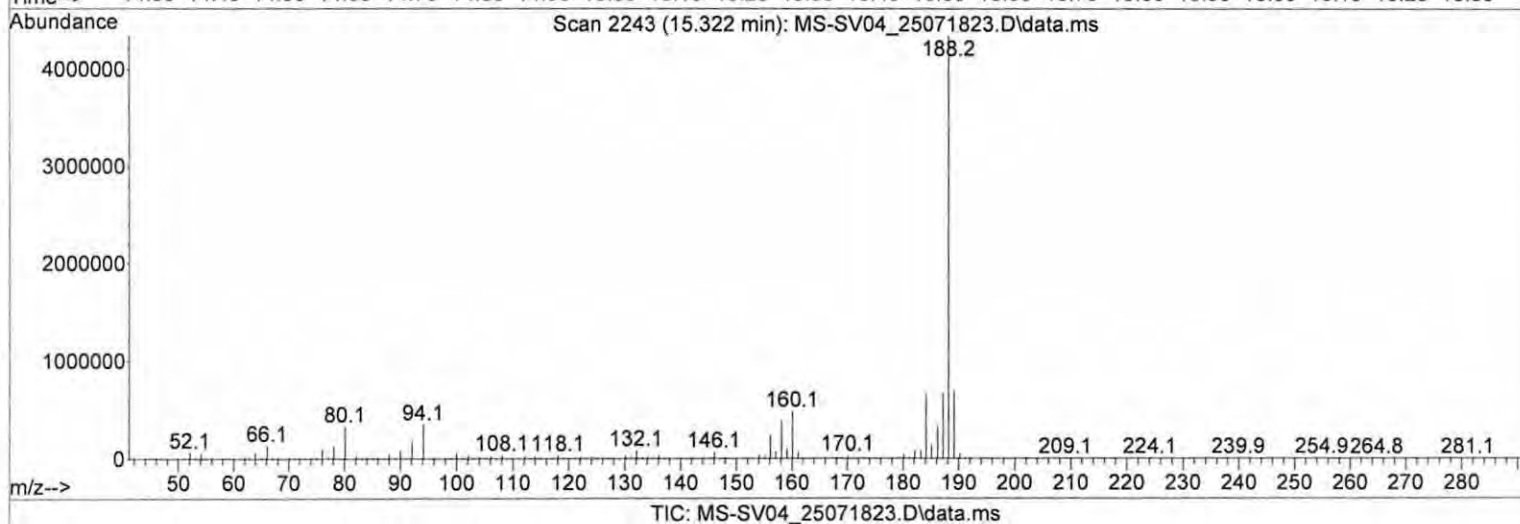
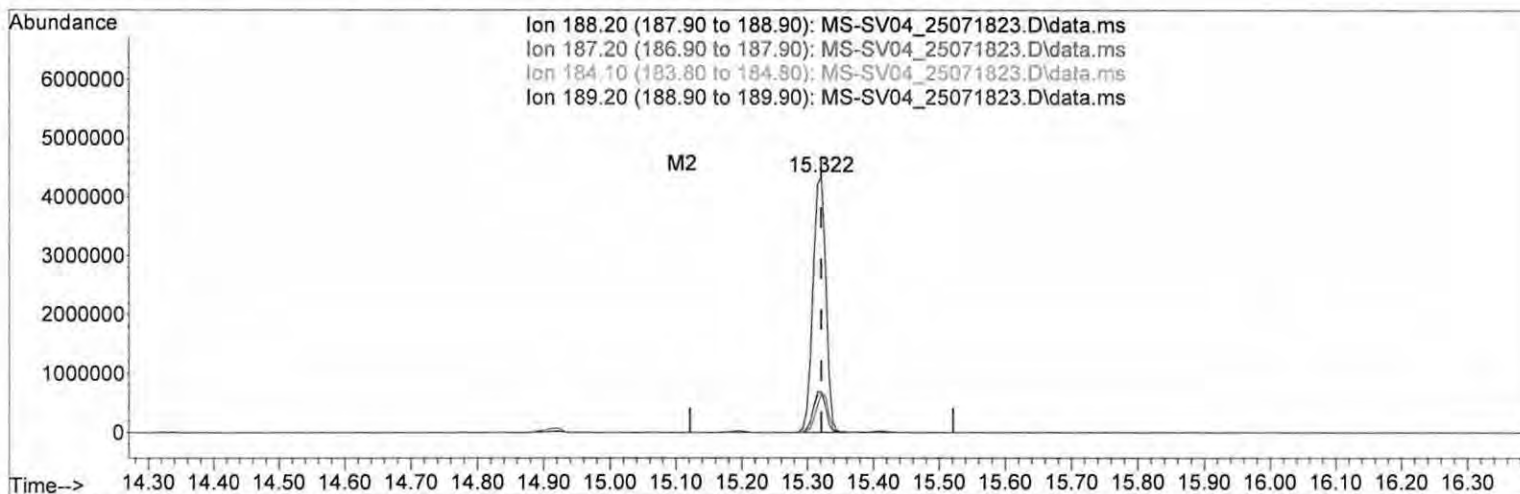
15.322min (0.000) 40.00 ug/ml

response 5911401

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.34#
184.10	14.80	14.90
189.20	16.40	15.92

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(36) Phenanthrene-d10 (I)

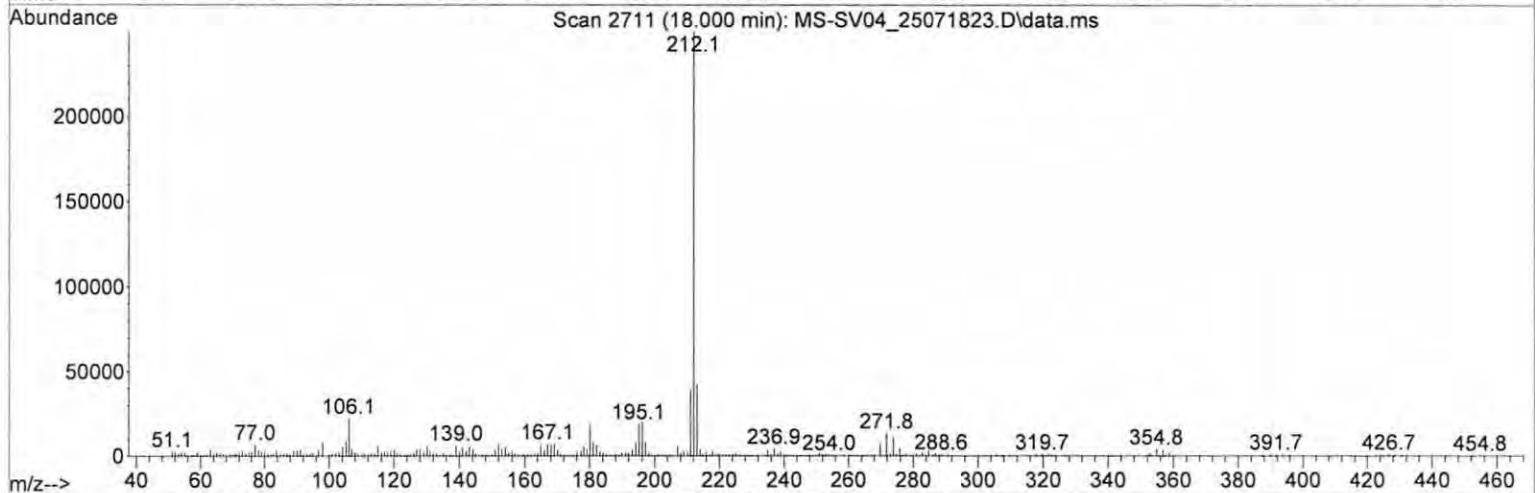
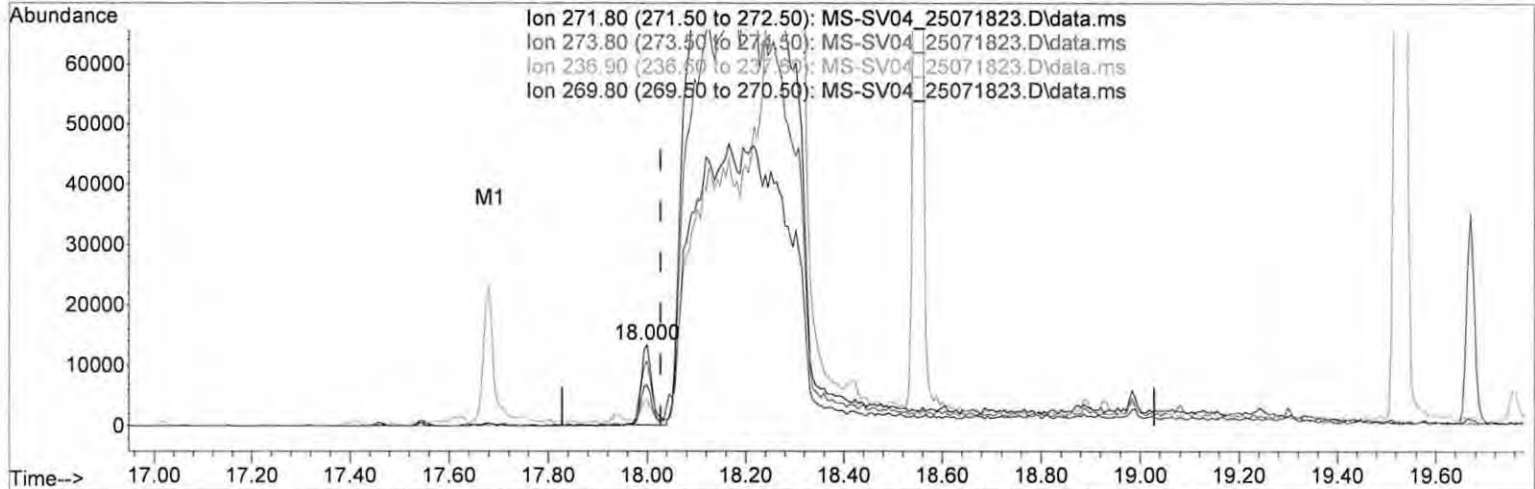
15.322min (0.000) 40.00 ug/ml m

response 5978659

Ion	Exp%	Act%
188.20	100.00	100.00
187.20	11.50	14.18#
184.10	14.80	14.74
189.20	16.40	15.74

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(53) Kepone (T)

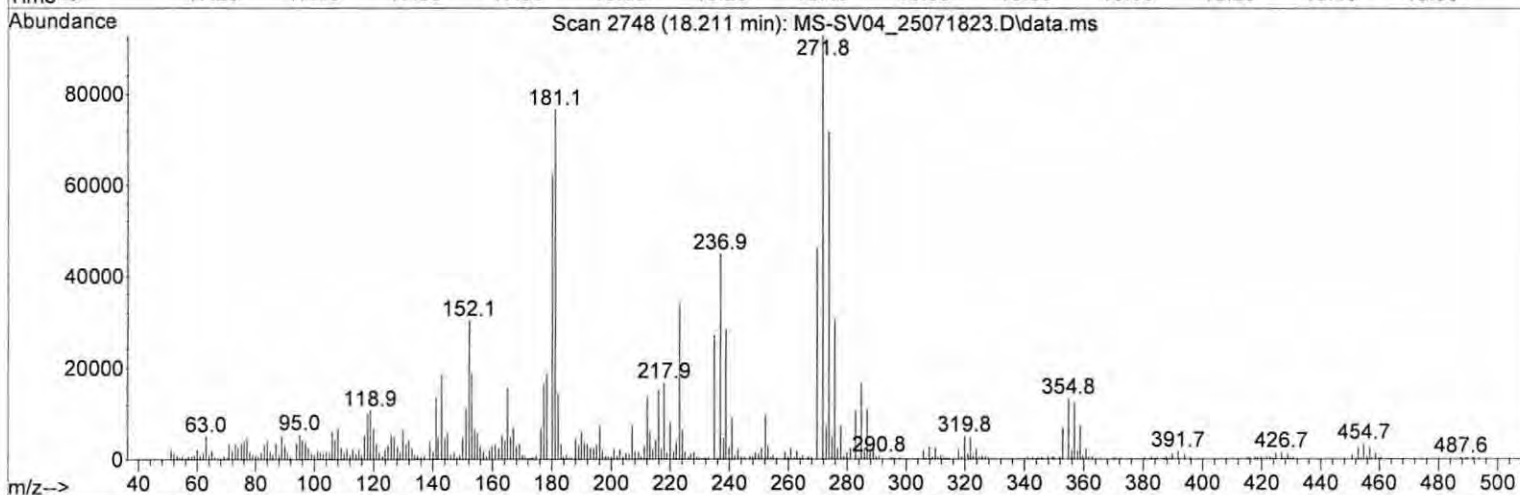
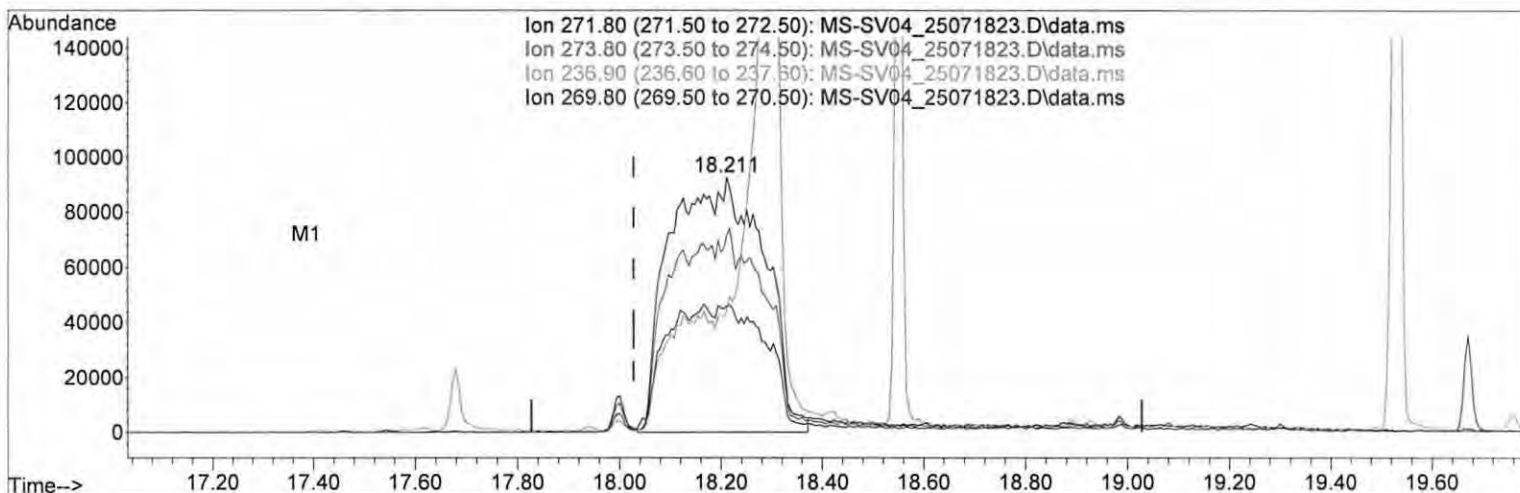
18.000min (-0.028) 1.66 ug/ml

response 20878

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	78.31
236.90	53.80	25.37#
269.80	10.10	53.33#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(53) Kepone (T)

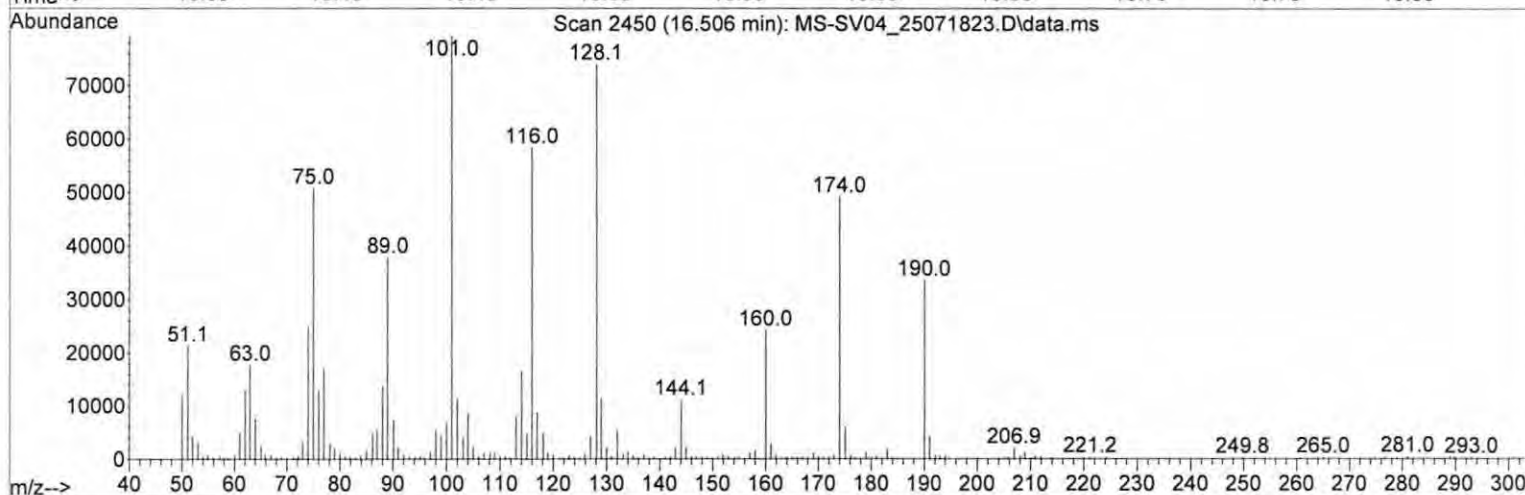
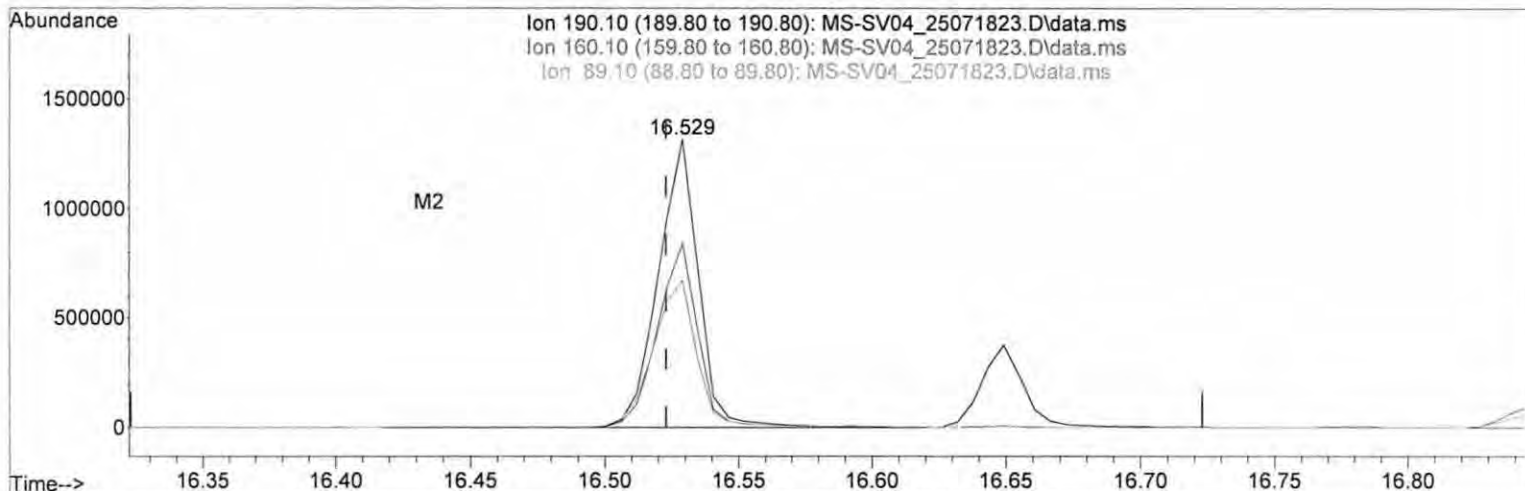
18.211min (+ 0.183) 94.09 ug/ml m

response 1181667

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	1.38#
236.90	53.80	0.45#
269.80	10.10	0.94#

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



TIC: MS-SV04_25071823.D\data.ms

(44) 4-Nitroquinoline-N-oxide (T)

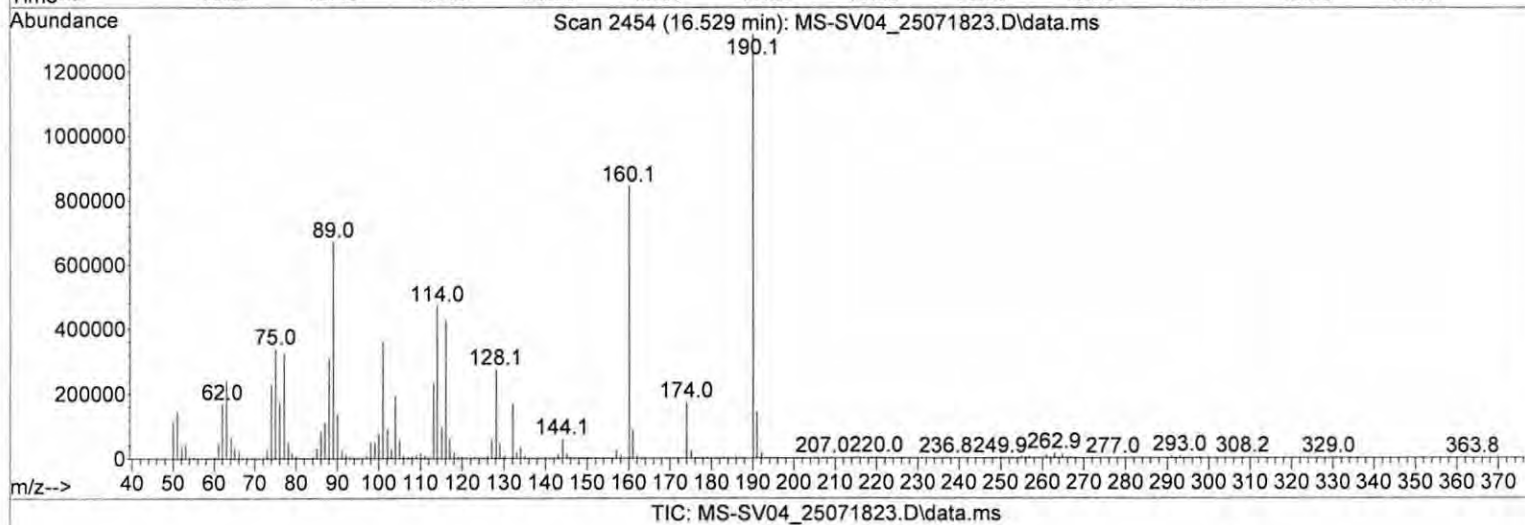
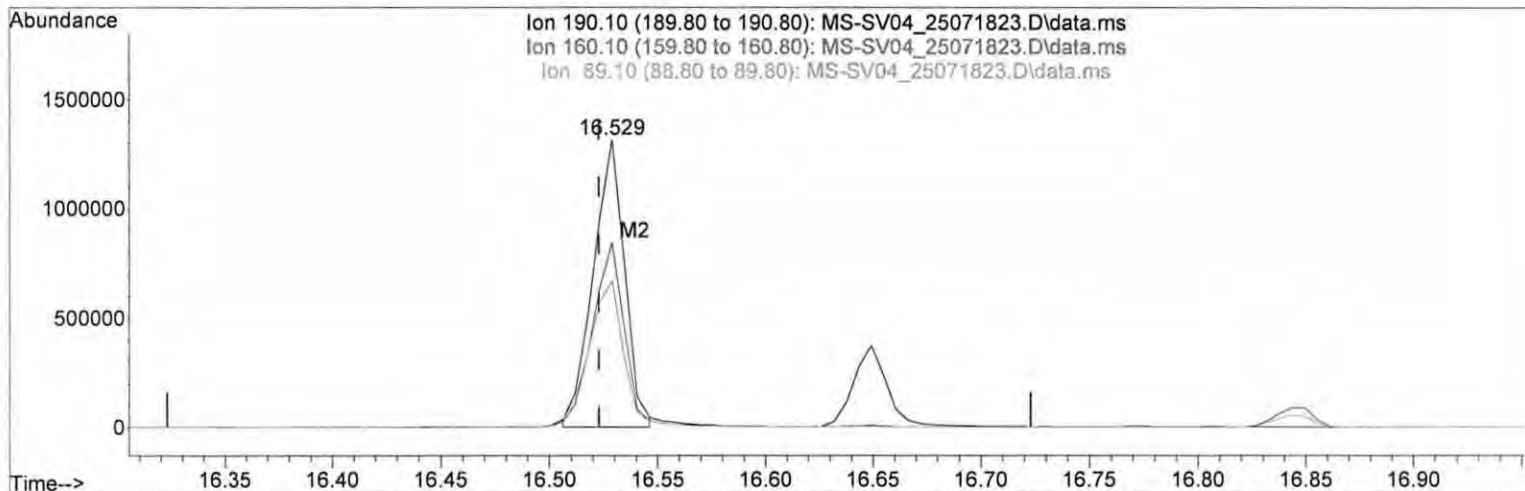
16.529min (+ 0.006) 119.77 ug/ml

response 1373790

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	64.17
89.10	52.80	55.35
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071823.D
Acq On : 19 Jul 2025 12:51 am
Operator : BMS
Sample : SEQ-CALG
Misc : APIX
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 11:22:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 11:22:02 2025
Response via : Initial Calibration



(44) 4-Nitroquinoline-N-oxide (T)

16.529min (+ 0.006) 114.08 ug/ml m

response 1320871

Ion	Exp%	Act%
190.10	100.00	100.00
160.10	63.70	66.74
89.10	52.80	57.57
0.00	0.00	0.00

Method Path : C:\GCMS\1\methods\
Method File : MS-SV04_250718BZ.M
Title : Semivolatile Primary Quant method (8270 and 625)
Last Update : Tue Aug 19 16:23:36 2025
Response Via : Initial Calibration

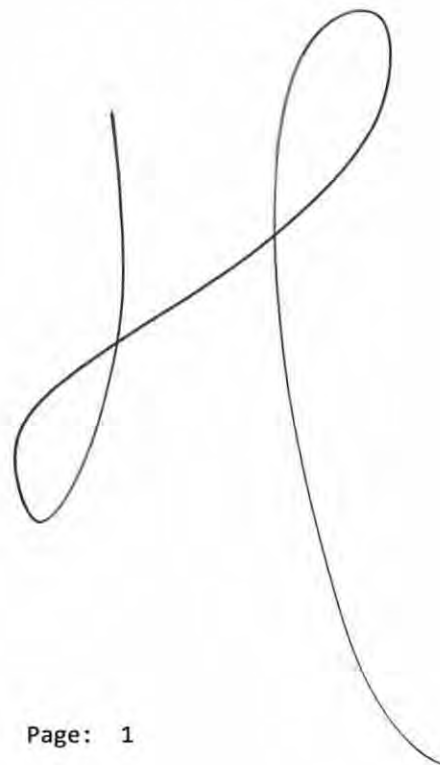
Calibration Files

2.5 =MS-SV04_25071915.D 5 =MS-SV04_25071828.D 10 =MS-SV04_25071829.D 20 =MS-SV04_25071830.D 40 =MS-SV04_25081909.D
60 =MS-SV04_25071832.D
80 =MS-SV04_25071833.D 100 =MS-SV04_25071834.D

	Compound	2.5	5	10	20	40	60	80	100	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2) I	Naphthalene-d8	-----ISTD-----									
3) I	Acenaphthene-d10	-----ISTD-----									
4) I	Phenanthrene-d10	-----ISTD-----									
5) I	Chrysene-d12	-----ISTD-----									
6)	Benzidine	0.033	0.183	0.408	0.559	0.626	0.645	0.616	0.591	0.458	50.54
7)	3,3'-Dichlorob...	0.097	0.258	0.379	0.420	0.406	0.411	0.386	0.371	0.341	32.59
8) I	Perylene-d12	-----ISTD-----									

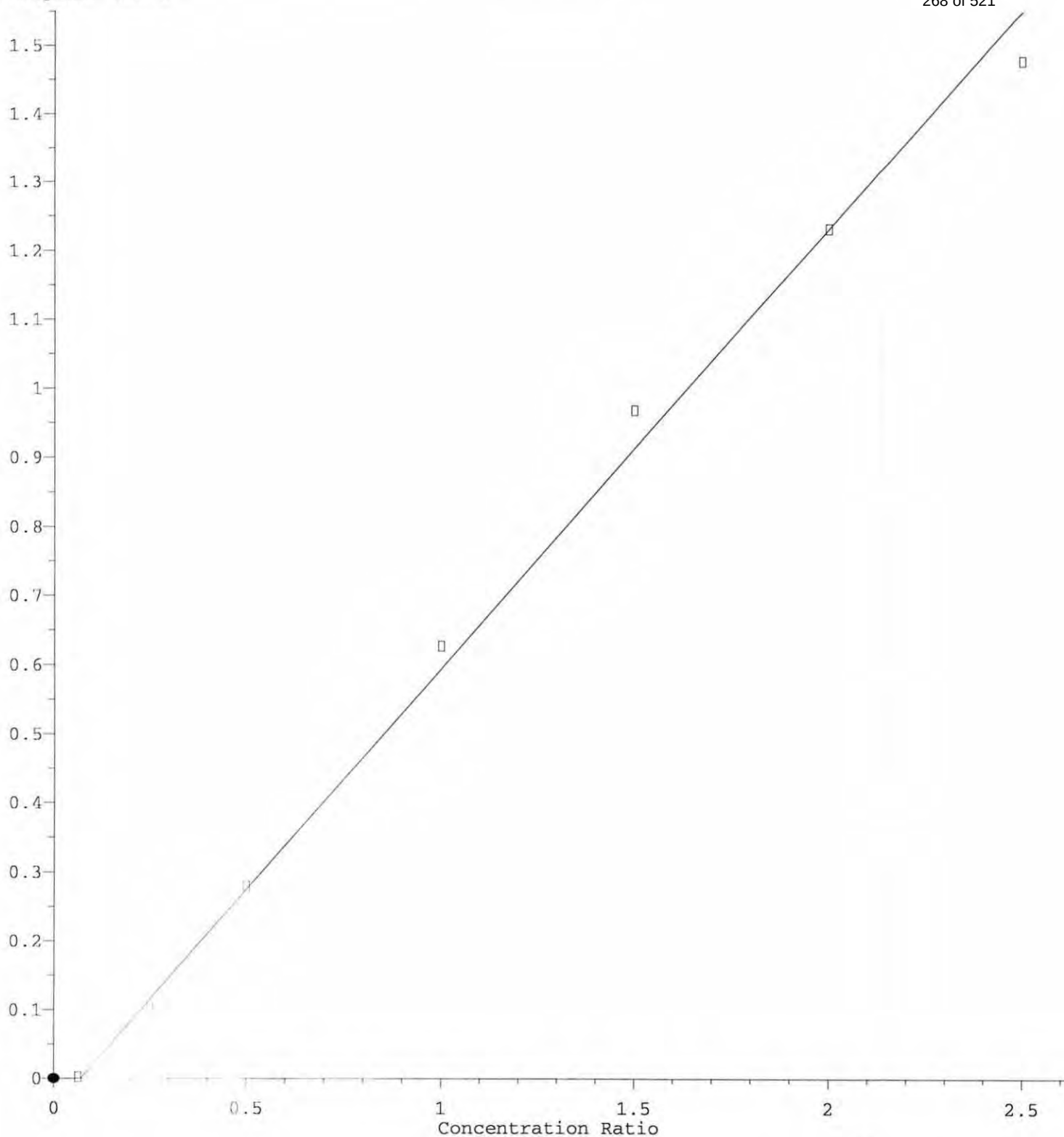
(#)= Out of Range											



Benzidine

268 of 521

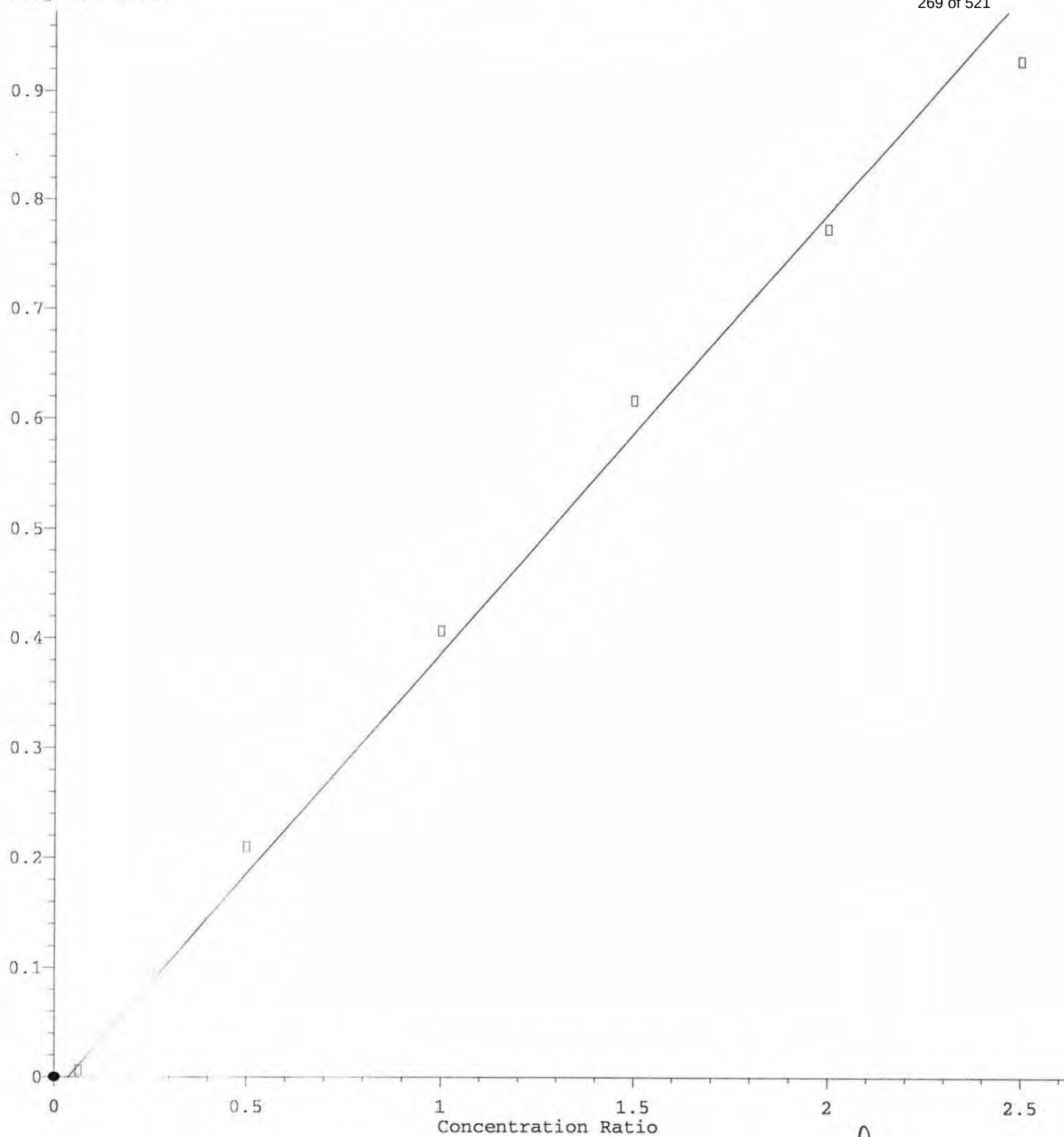
Response Ratio



Response = $6.379e-001 * \text{Amt} - 4.426e-002$
Coef of Det. (r^2) = 0.996758 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718BZ.M
Calibration Table Last Updated: Wed Jul 23 15:22:24 2025

Response Ratio

269 of 521



Response = $4.011e-001 * \text{Amt} - 1.477e-002$
Coef of Det (R^2) = 0.995419 Curve Fit: wlr(1/a)
Method Name: C:\GCMS\1\methods\MS-SV04_250718BZ.M
Calibration File Last Updated: Wed Jul 23 15:22:24 2025

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071828.D
Acq On : 19 Jul 2025 03:12 am
Operator : BMS
Sample : SEQ-CALI
Misc : BENZ
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 23 15:22:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

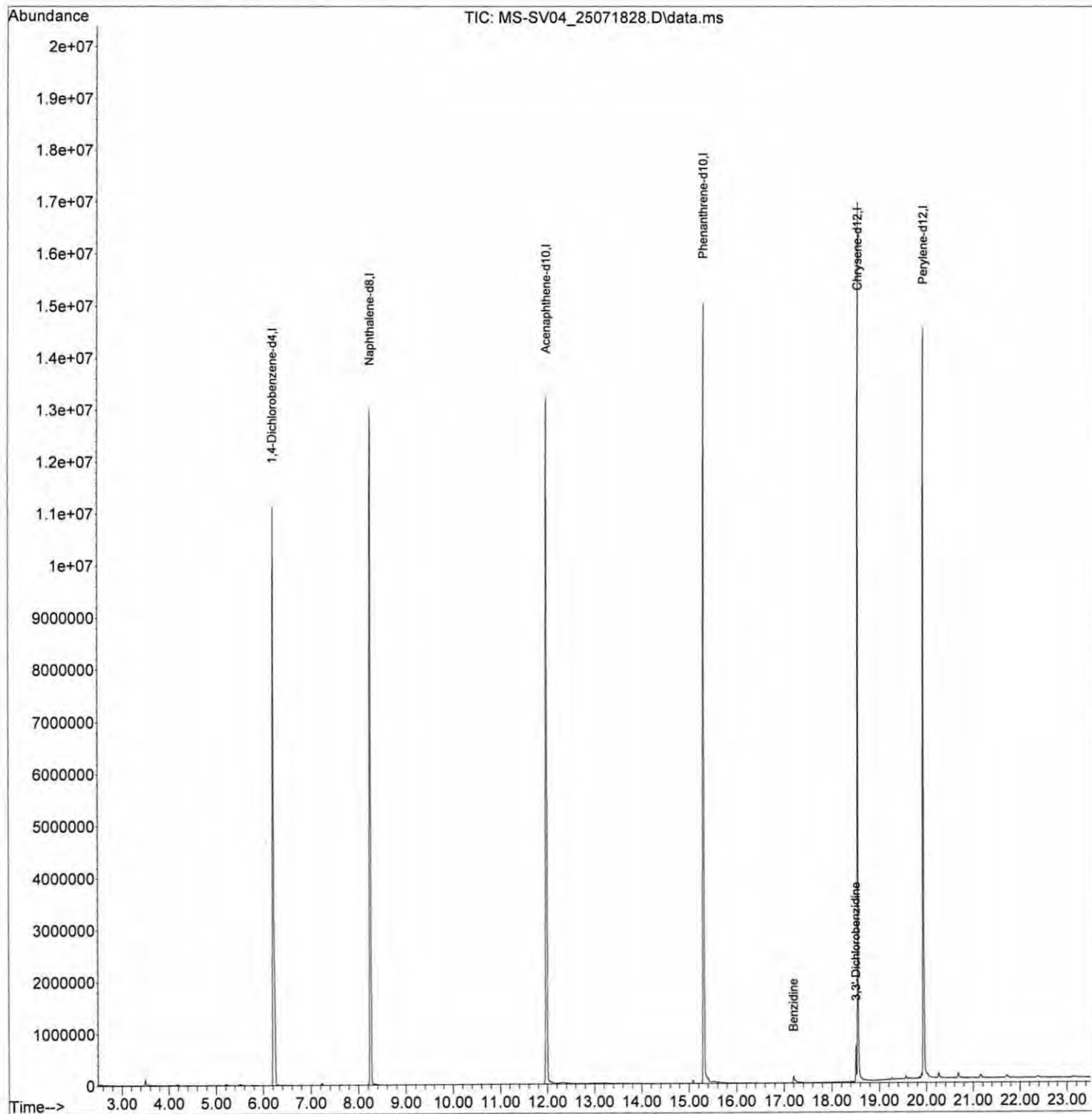
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3276591	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10030672	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	11.986	164	5591329	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	8512677	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.549	240	6518319	40.00	ug/ml	# 0.00
8) Perylene-d12	19.939	264	7180788	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.199	184	149432	4.21	ug/ml	96
7) 3,3'-Dichlorobenzidine	18.509	252	209854	4.68	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071828.D
Acq On : 19 Jul 2025 03:12 am
Operator : BMS
Sample : SEQ-CALI
Misc : BENZ
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 23 15:22:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



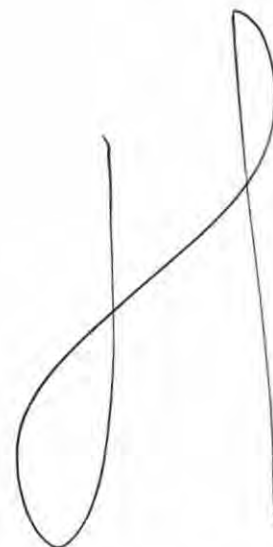
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071829.D
Acq On : 19 Jul 2025 03:40 am
Operator : BMS
Sample : SEQ-CALJ
Misc : BENZ
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 23 15:23:00 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

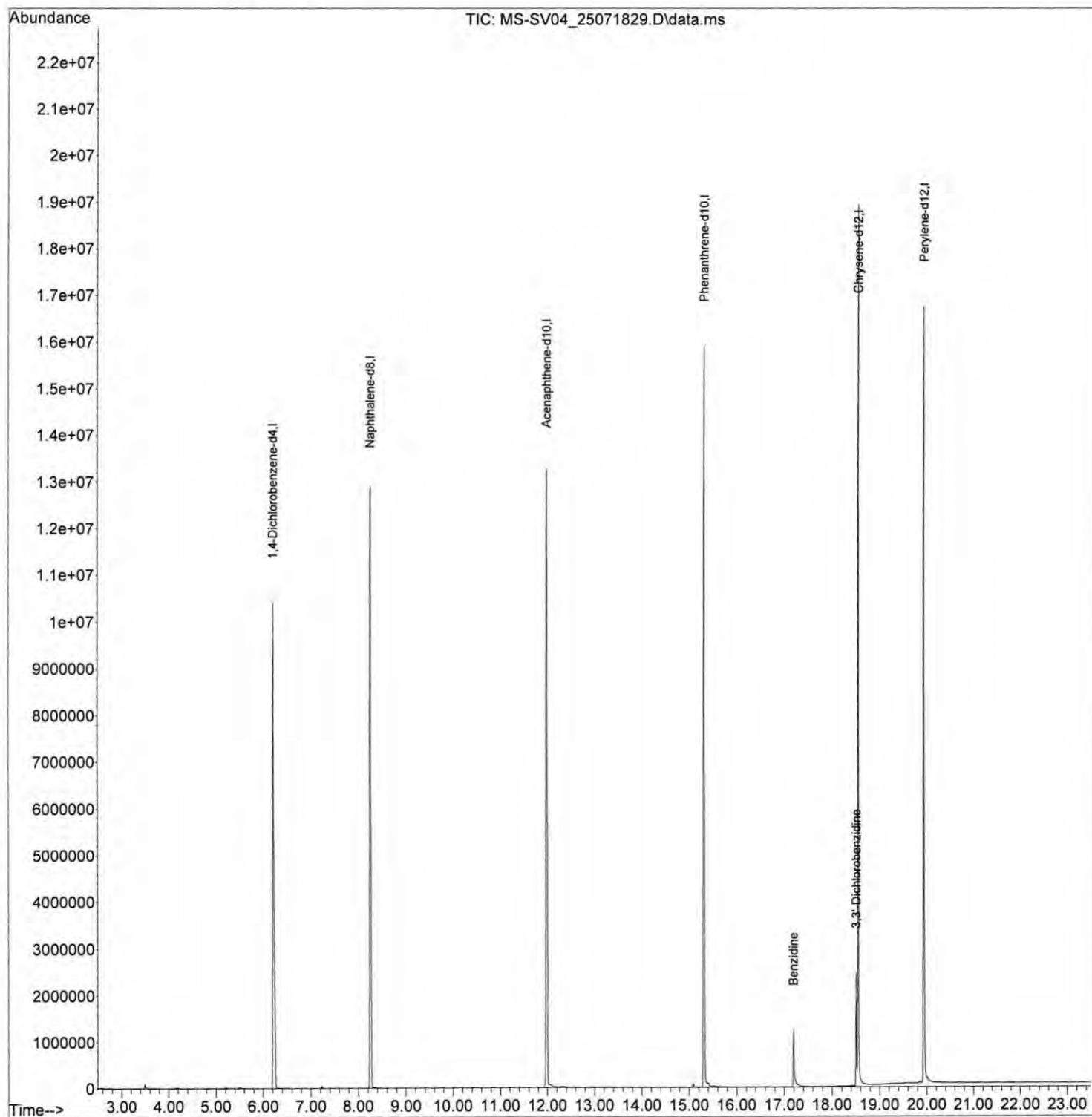
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3317229	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10133177	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	11.980	164	5793182	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	8971721	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.549	240	7426404	40.00	ug/ml	# 0.00
8) Perylene-d12	19.939	264	8393734	40.00	ug/ml	0.00
Target Compounds				Qvalue		
6) Benzidine	17.193	184	757765	9.17	ug/ml	98
7) 3,3'-Dichlorobenzidine	18.509	252	703513	10.92	ug/ml#	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071829.D
Acq On : 19 Jul 2025 03:40 am
Operator : BMS
Sample : SEQ-CALJ
Misc : BENZ
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 23 15:23:00 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



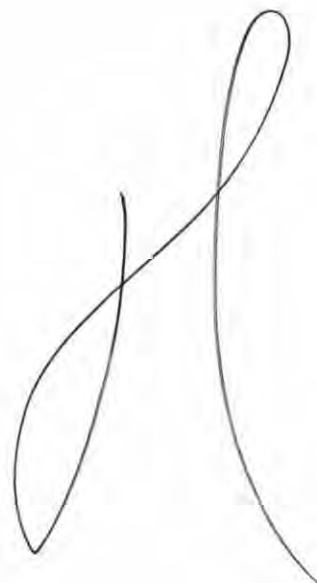
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071830.D
Acq On : 19 Jul 2025 04:09 am
Operator : BMS
Sample : SEQ-CALK
Misc : BENZ
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 23 15:23:02 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

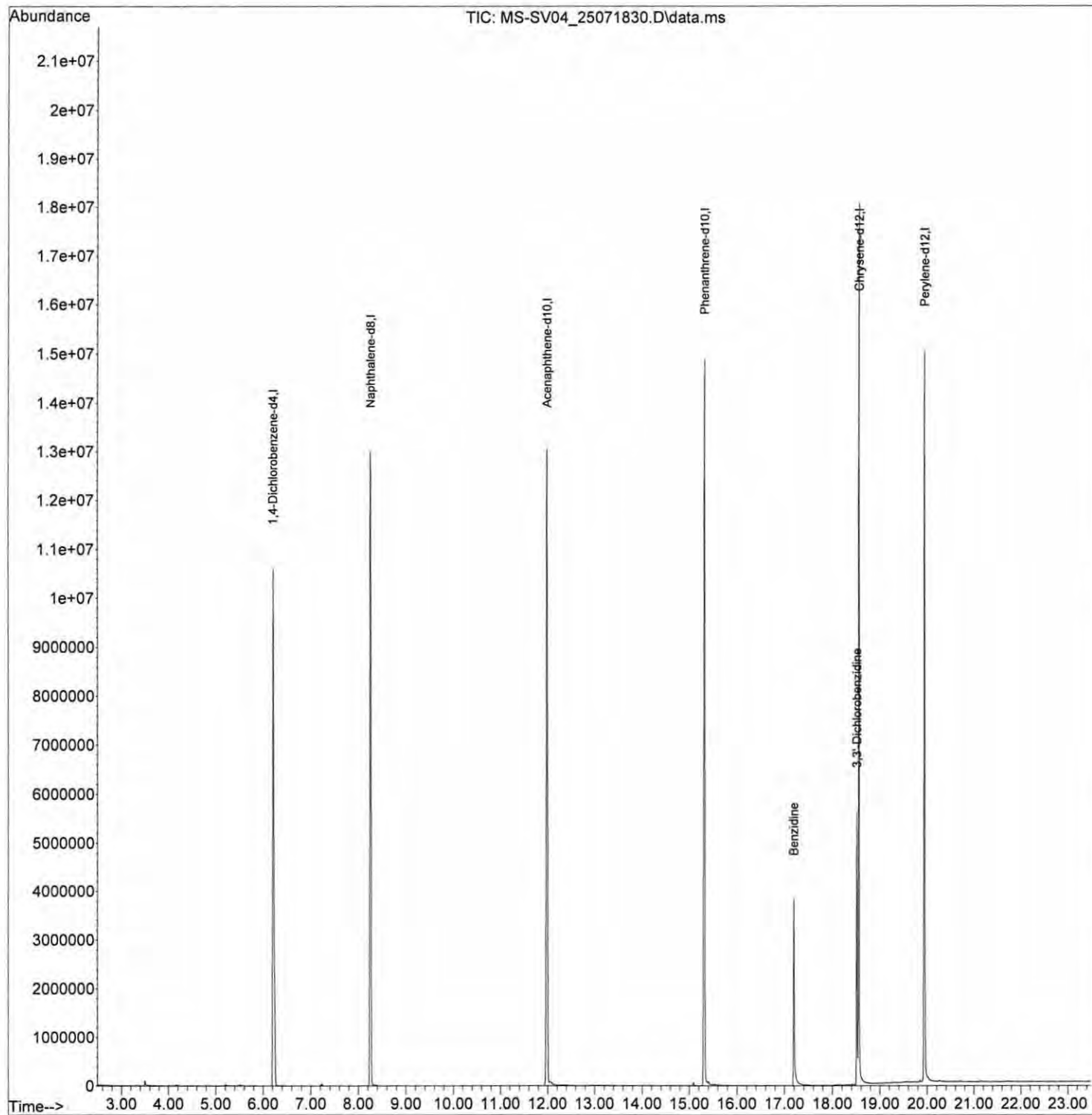
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3337373	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10157299	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	11.980	164	5642536	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	8664814	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.555	240	6809965	40.00	ug/ml	# 0.00
8) Perylene-d12	19.939	264	7564750	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benidine	17.193	184	1903627	20.30	ug/ml	98
7) 3,3'-Dichlorobenzidine	18.509	252	1430967	22.43	ug/ml#	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071830.D
Acq On : 19 Jul 2025 04:09 am
Operator : BMS
Sample : SEQ-CALK
Misc : BENZ
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 23 15:23:02 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071831.D
Acq On : 19 Jul 2025 04:37 am
Operator : BMS
Sample : SEQ-CALL
Misc : BENZ
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 23 15:23:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

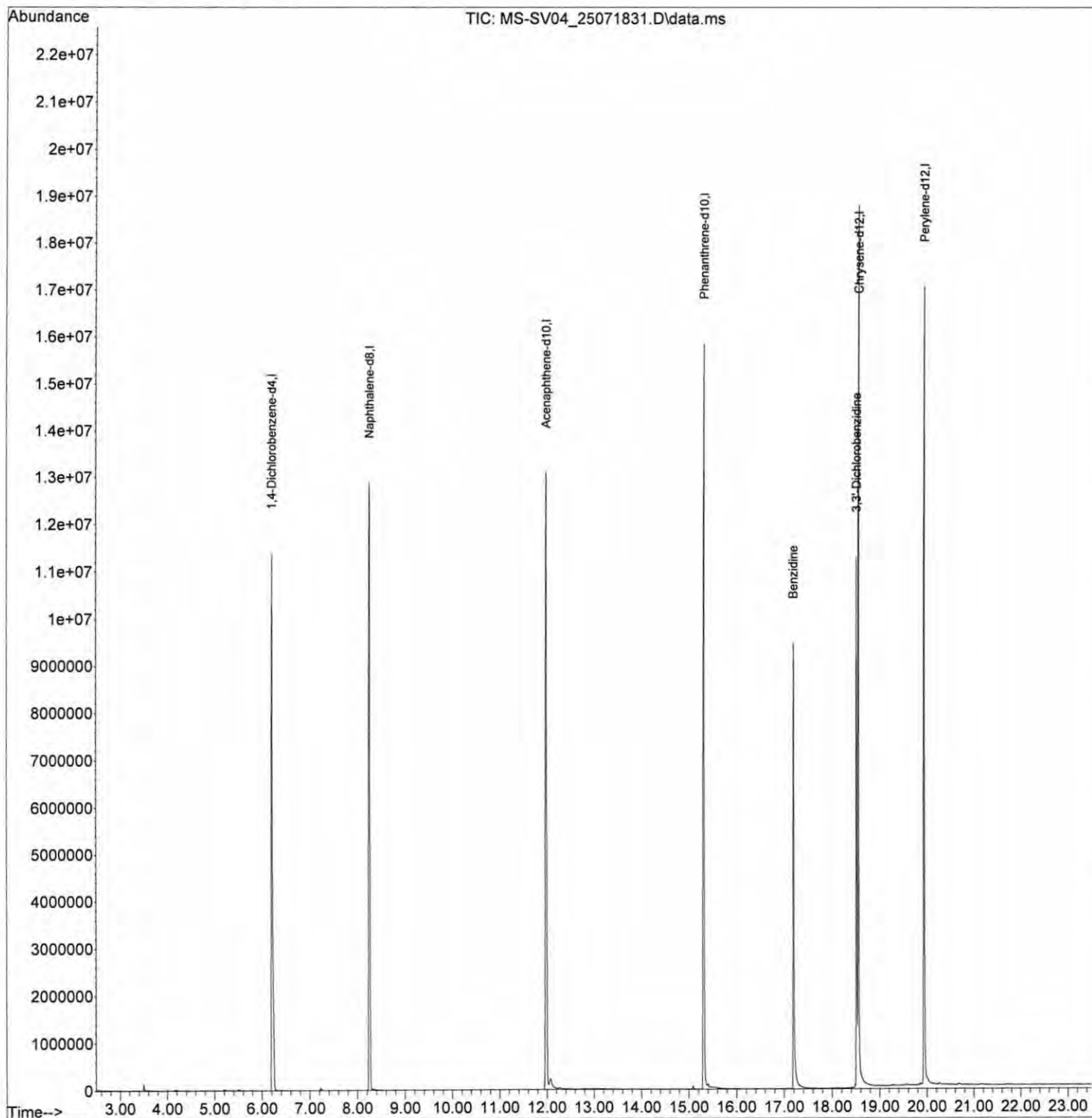
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3340359	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10315113	40.00	ug/ml #	0.00
3) Acenaphthene-d10	11.980	164	5627529	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	9044817	40.00	ug/ml #	0.00
5) Chrysene-d12	18.555	240	7677949	40.00	ug/ml #	0.00
8) Perylene-d12	19.939	264	8194627	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.193	184	4809126	42.05	ug/ml	97
7) 3,3'-Dichlorobenzidine	18.509	252	3119145	41.99	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071831.D
Acq On : 19 Jul 2025 04:37 am
Operator : BMS
Sample : SEQ-CALL
Misc : BENZ
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 23 15:23:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071832.D
Acq On : 19 Jul 2025 05:06 am
Operator : BMS
Sample : SEQ-CALM
Misc : BENZ
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:23:06 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

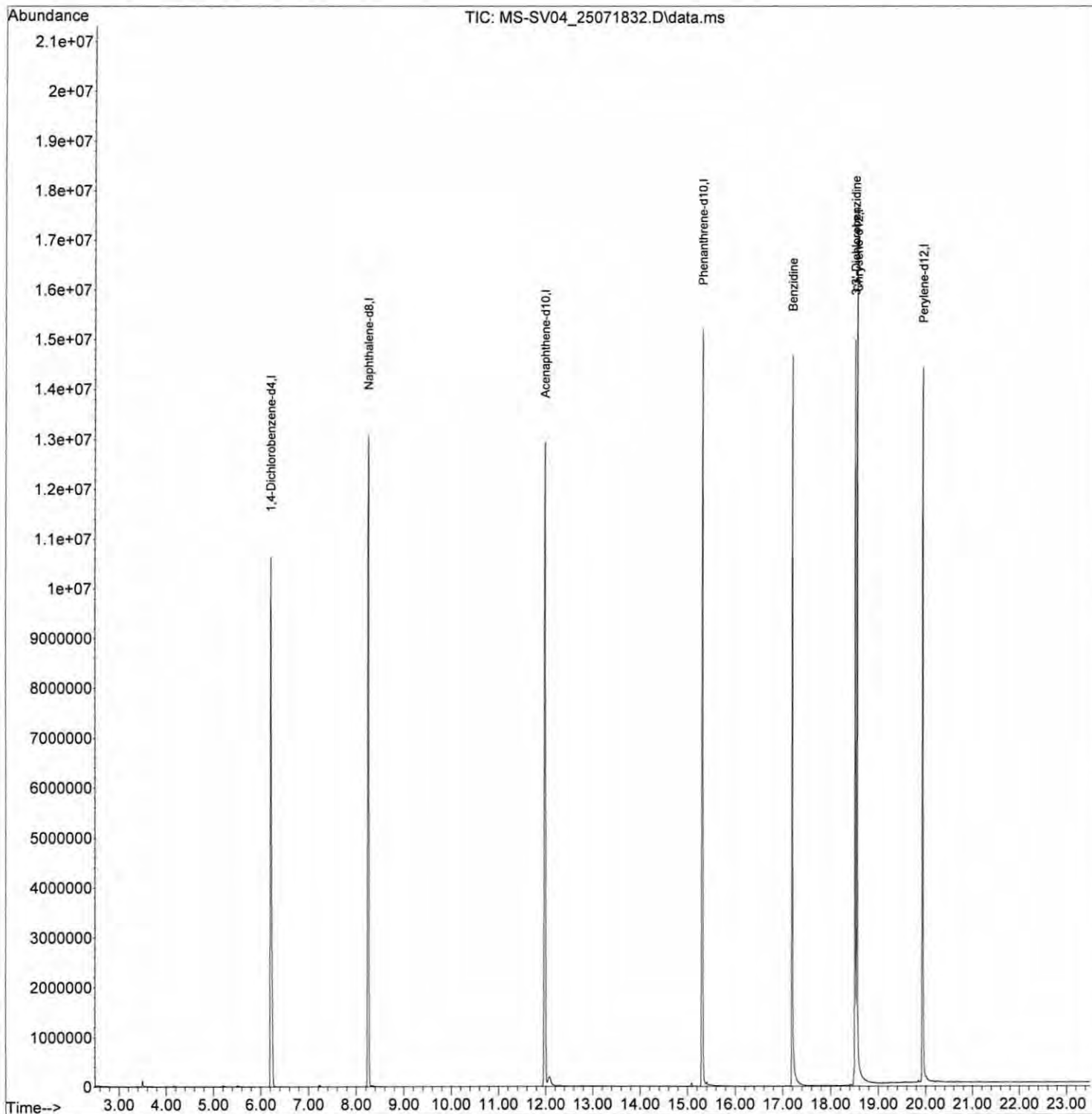
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3337884	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10131595	40.00	ug/ml #	0.00
3) Acenaphthene-d10	11.980	164	5625105	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.310	188	8902412	40.00	ug/ml #	0.00
5) Chrysene-d12	18.555	240	6918641	40.00	ug/ml #	0.00
8) Perylene-d12	19.940	264	7266911	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.199	184	6694018	63.45	ug/ml	96
7) 3,3'-Dichlorobenzidine	18.509	252	4260710	62.89	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071832.D
Acq On : 19 Jul 2025 05:06 am
Operator : BMS
Sample : SEQ-CALM
Misc : BENZ
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:23:06 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



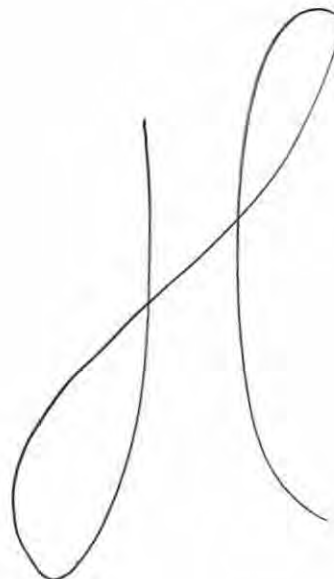
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071833.D
Acq On : 19 Jul 2025 05:34 am
Operator : BMS
Sample : SEQ-CALN
Misc : BENZ
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:23:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

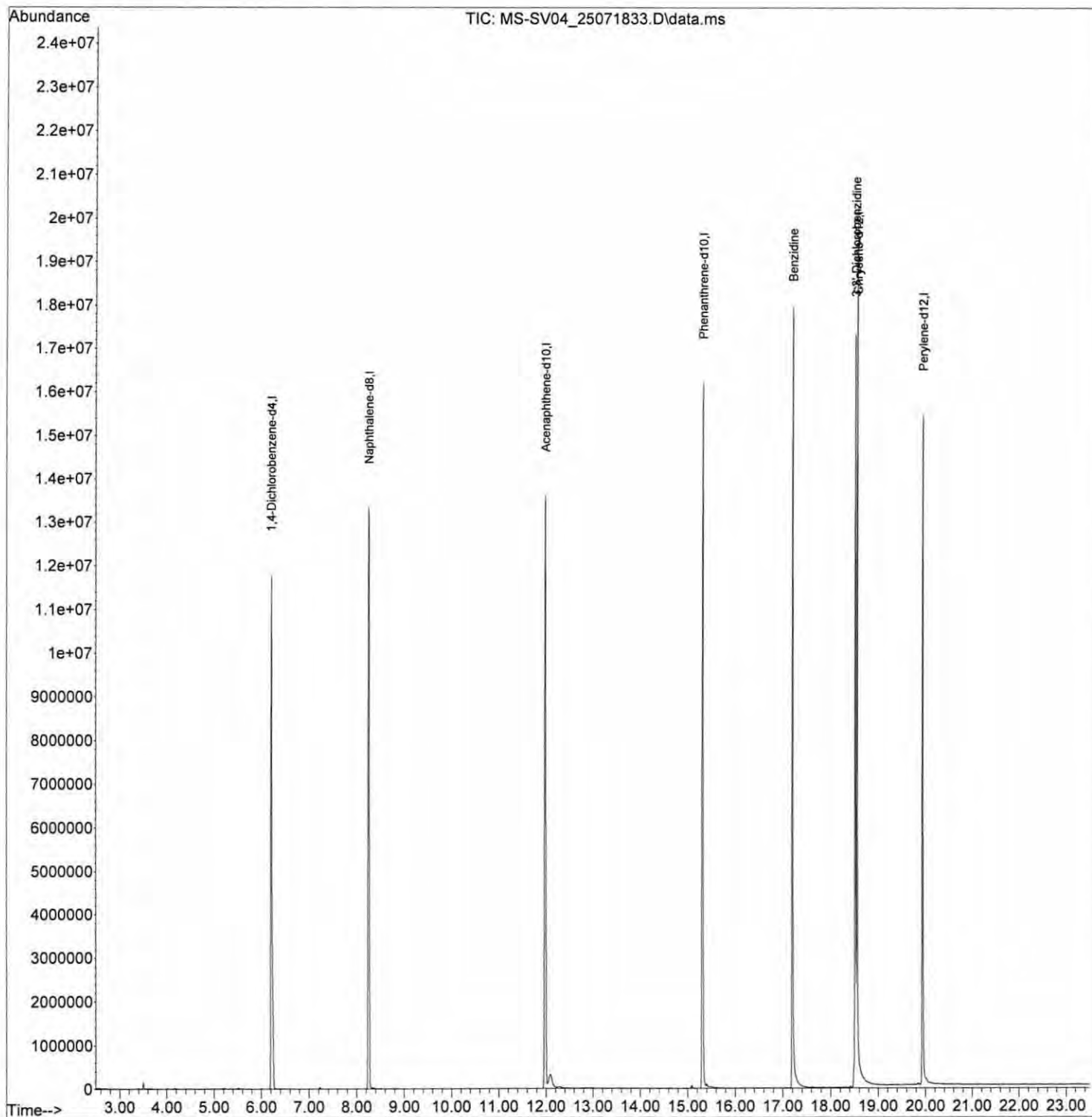
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3481624	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10681870	40.00	ug/ml #	0.00
3) Acenaphthene-d10	11.986	164	5824071	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	9578823	40.00	ug/ml #	0.00
5) Chrysene-d12	18.555	240	7538435	40.00	ug/ml #	0.00
8) Perylene-d12	19.939	264	7842755	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.204	184	9282973	80.00	ug/ml	95
7) 3,3'-Dichlorobenzidine	18.515	252	5823876	78.52	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071833.D
Acq On : 19 Jul 2025 05:34 am
Operator : BMS
Sample : SEQ-CALN
Misc : BENZ
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:23:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071834.D
Acq On : 19 Jul 2025 06:02 am
Operator : BMS
Sample : SEQ-CALO
Misc : BENZ
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 23 15:23:10 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

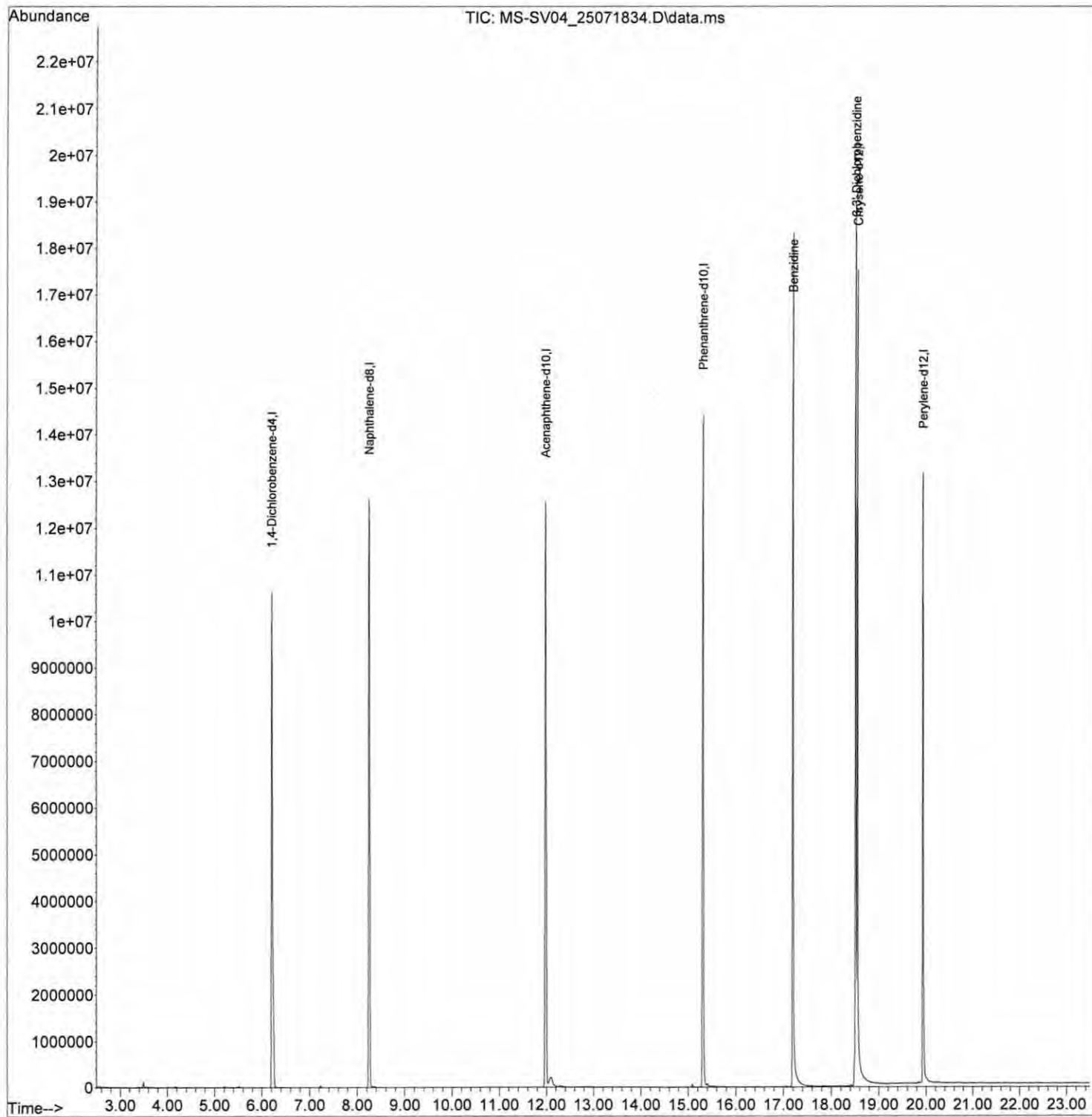
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3162262	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9803094	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	11.980	164	5350477	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	8620959	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.555	240	6406137	40.00	ug/ml	# 0.00
8) Perylene-d12	19.939	264	6651818	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.204	184	9462798	95.41	ug/ml#	95
7) 3,3'-Dichlorobenzidine	18.515	252	5942271	93.98	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071834.D
Acq On : 19 Jul 2025 06:02 am
Operator : BMS
Sample : SEQ-CALO
Misc : BENZ
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 23 15:23:10 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



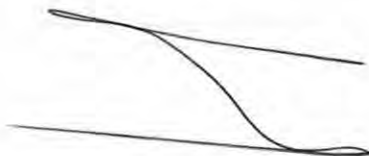
Method Path : C:\GCMS\1\methods\
 Method File : MS-SV04_250718PE.M
 Title : 8270 Appendix IX Pesticide compounds
 Last Update : Wed Jul 23 12:40:45 2025
 Response Via : Initial Calibration

Calibration Files

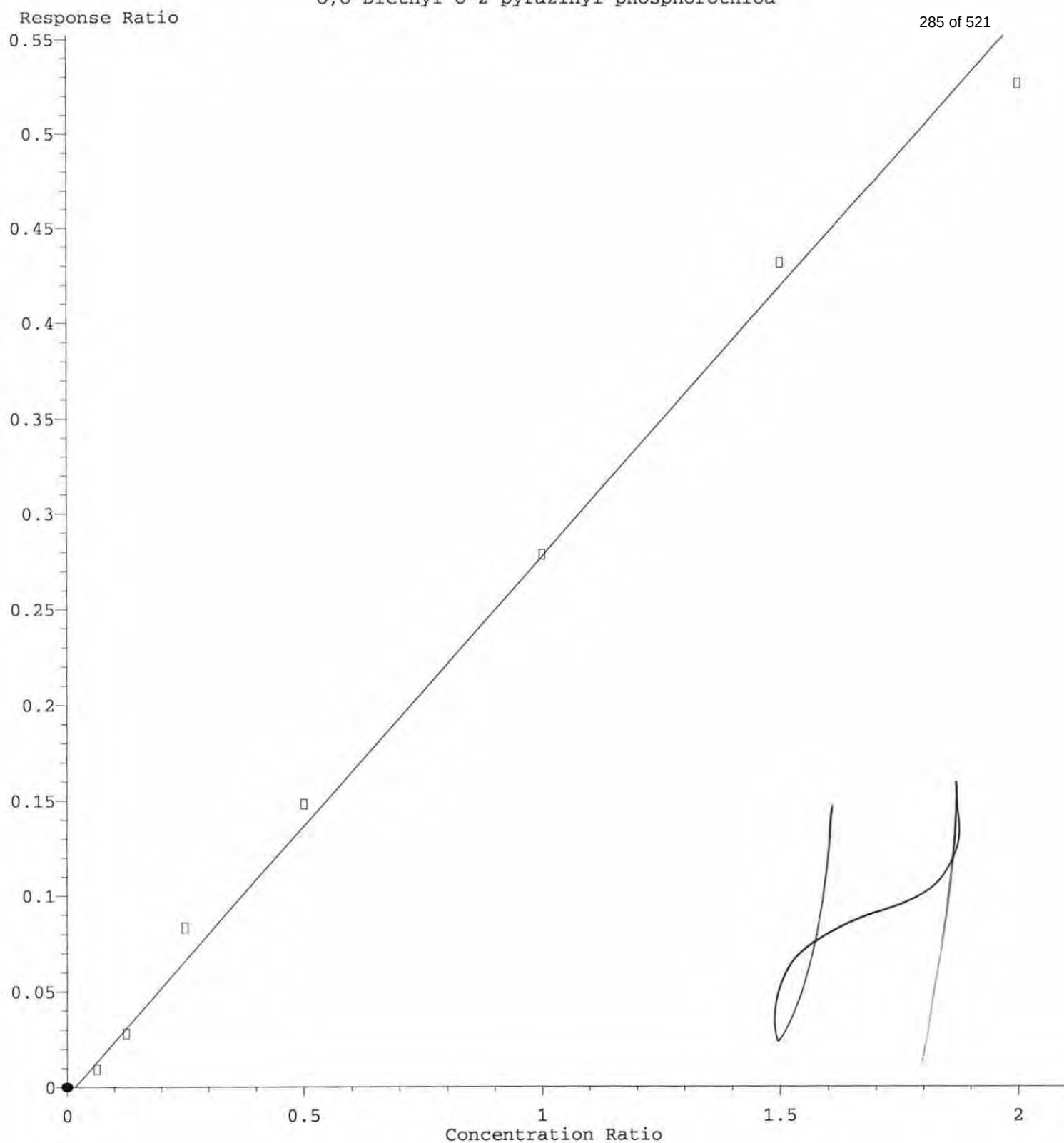
2.5 =MS-SV04_25071836.D 5 =MS-SV04_25071837.D 10 =MS-SV04_25071838.D 20 =MS-SV04_25071839.D 40 =MS-SV04_25071840.D
 60 =MS-SV04_25071841.D
 80 =MS-SV04_25071842.D 100 =MS-SV04_25071843.D

Compound	2.5	5	10	20	40	60	80	100	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) T o,o,o-Triethyl...	0.336	0.382	0.503	0.373	0.328	0.322	0.307	0.289	0.355	18.97
3) I Naphthalene-d8	-----ISTD-----									
4) I Acenaphthene-d10	-----ISTD-----									
5) T o,o-Diethyl o-...	0.148	0.223	0.333	0.296	0.279	0.288	0.263		0.261	23.03
6) I Phenanthrene-d10	-----ISTD-----									
7) T Sulfotep	0.094	0.128	0.153	0.145	0.128	0.130	0.124	0.114	0.127	14.10
8) T Phorate	0.304	0.413	0.490	0.451	0.391	0.383	0.363	0.330	0.391	15.56
9) T Hexachlorobenzene	0.288	0.310	0.371	0.334	0.317	0.337	0.328	0.313	0.325	7.49
10) T Dimethoate	0.062	0.121	0.182	0.229	0.232	0.247	0.234	0.218	0.191	34.59
11) T Disulfoton	0.270	0.358	0.424	0.367	0.313	0.301	0.284	0.262	0.322	17.37
12) T Methyl parathion	0.050	0.112	0.172	0.223	0.224	0.230	0.218	0.202	0.179	36.52
13) Malathion	0.082	0.145	0.194	0.201	0.196	0.193	0.181	0.165	0.170	23.68
14) T Parathion	0.043	0.092	0.136	0.154	0.146	0.147	0.136	0.125	0.122	30.51
15) I Chrysene-d12	-----ISTD-----									
16) T Kepone	0.059	0.102	0.126	0.141	0.137	0.150	0.145	0.135	0.124	24.35
17) T Famphur	0.200	0.371	0.543	0.561	0.542	0.548	0.515	0.489	0.471	26.57
18) T Benzo (a) pyrene	0.443	0.451	0.847	0.703	0.820	0.933	0.894	0.882	0.747	26.39
19) I Perylene-d12	-----ISTD-----									

(#) = Out of Range



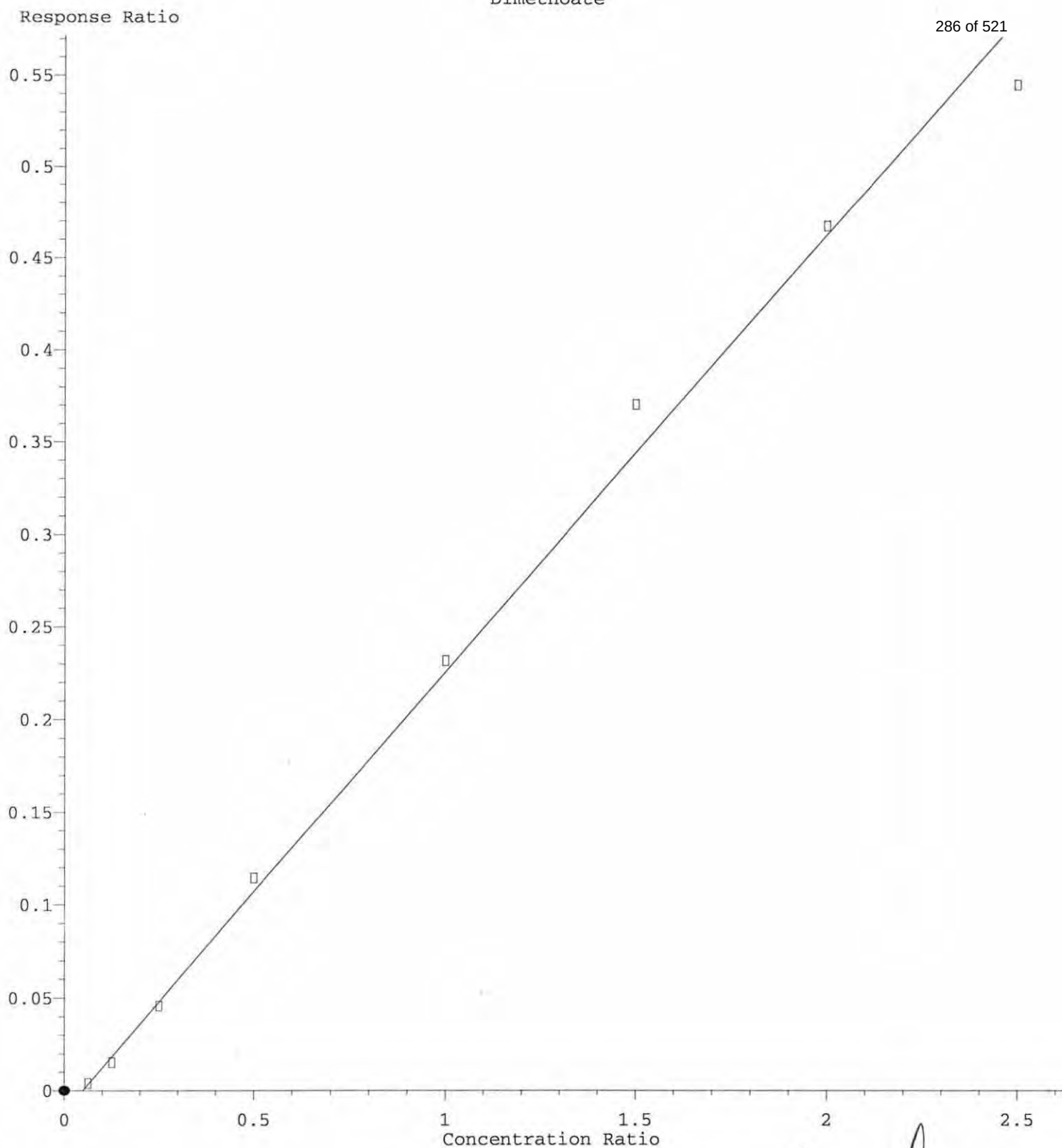
o,o-Diethyl o-2 pyrazinyl phosphorothioa



Response = 2.828e-001 * Amt - 4.676e-003
 Coef of Det (r^2) = 0.992303 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M
 Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Dimethoate

286 of 521



H

$$\text{Response} = 2.378\text{e-}001 * \text{Amt} - 1.158\text{e-}002$$

Coef of Det (r^2) = 0.996383 Curve Fit: wlr(1/a)

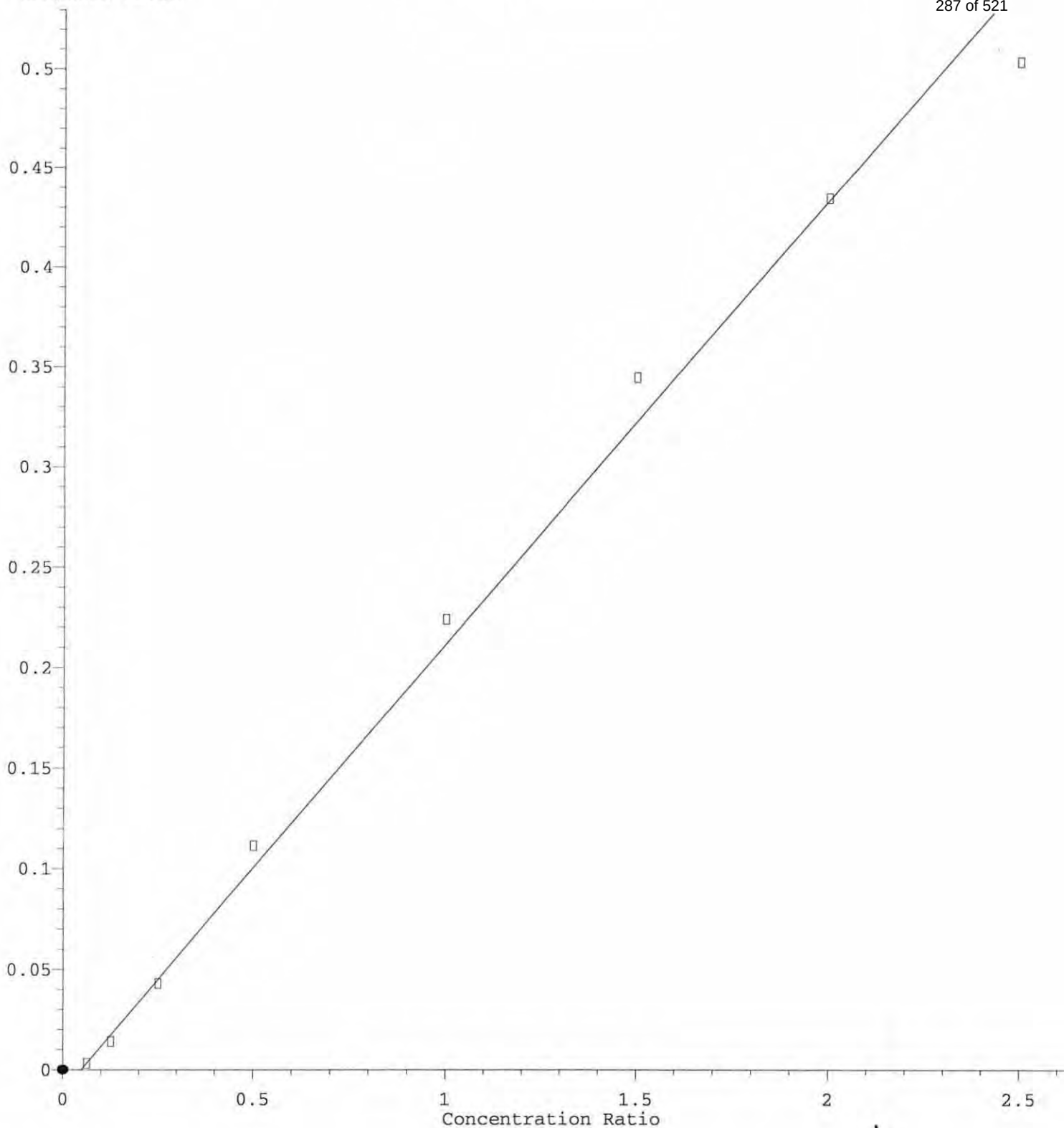
Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Methyl parathion

Response Ratio

287 of 521



[Handwritten signature]

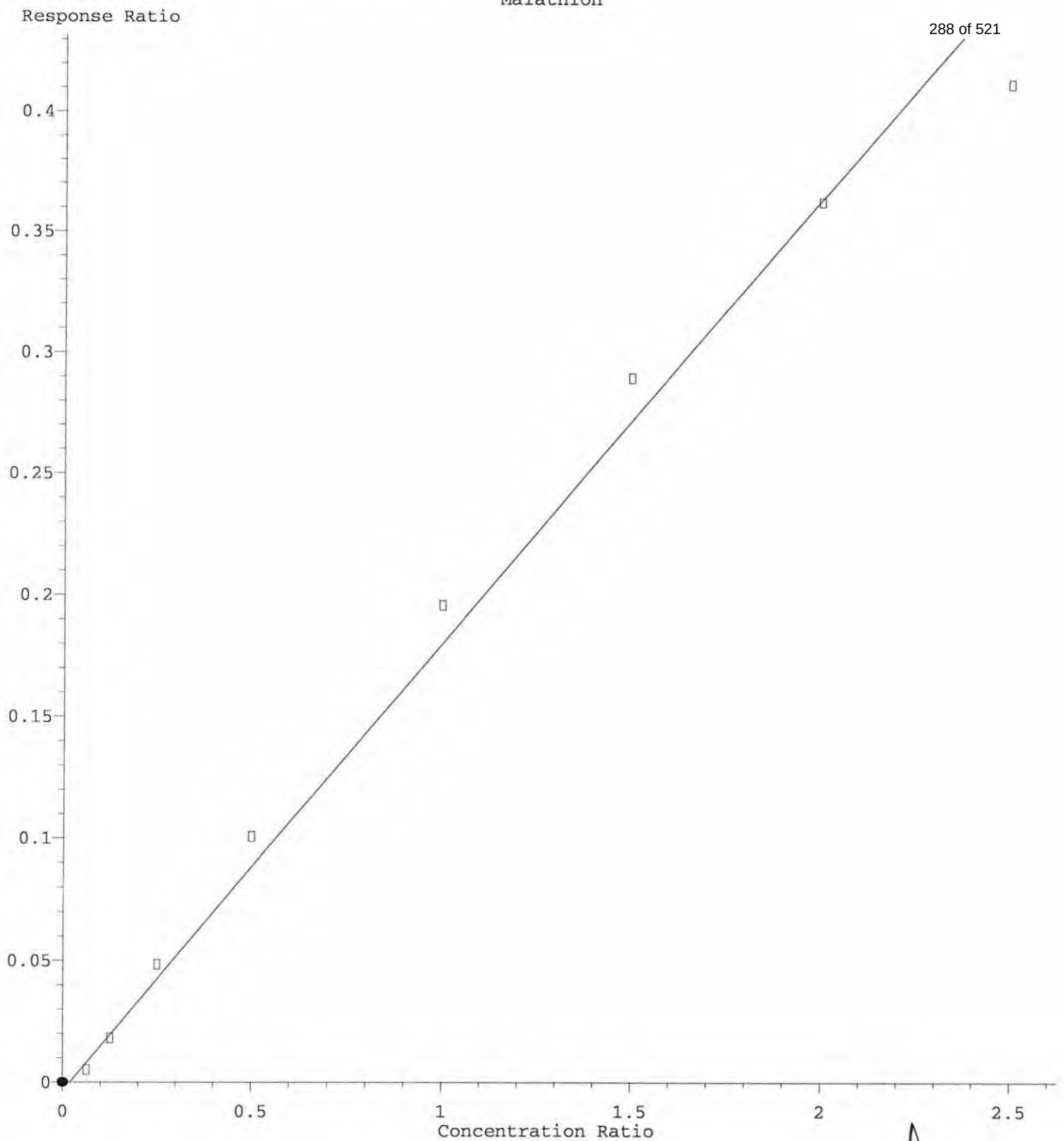
$$\text{Response} = 2.228\text{e-}001 * \text{Amt} - 1.077\text{e-}002$$

Coef of Det (r^2) = 0.995014 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Malathion



Response = 1.841e-001 * Amt - 3.549e-003

Coef of Det (r^2) = 0.991147 Curve Fit: wlr(1/a)

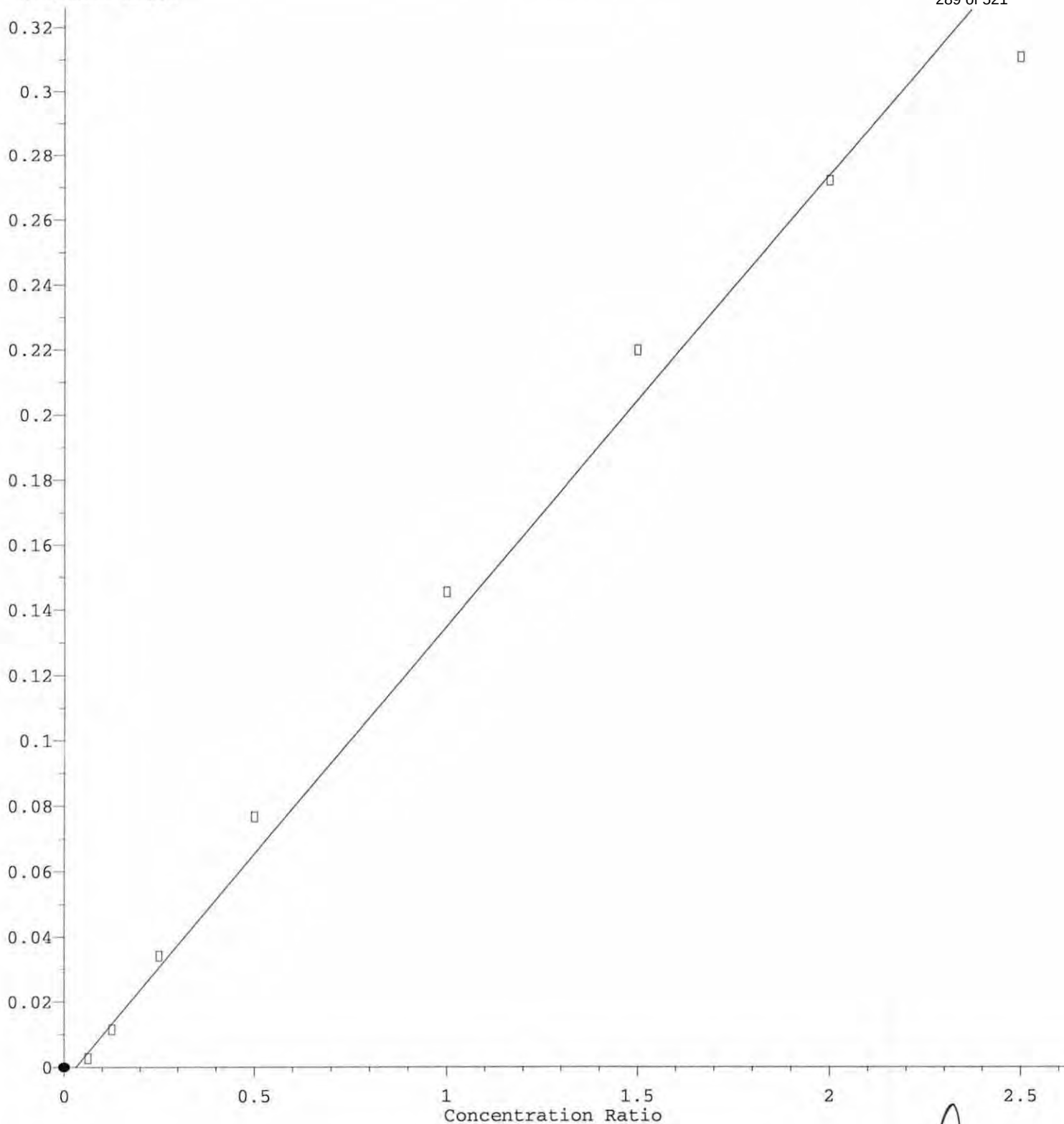
Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Parathion

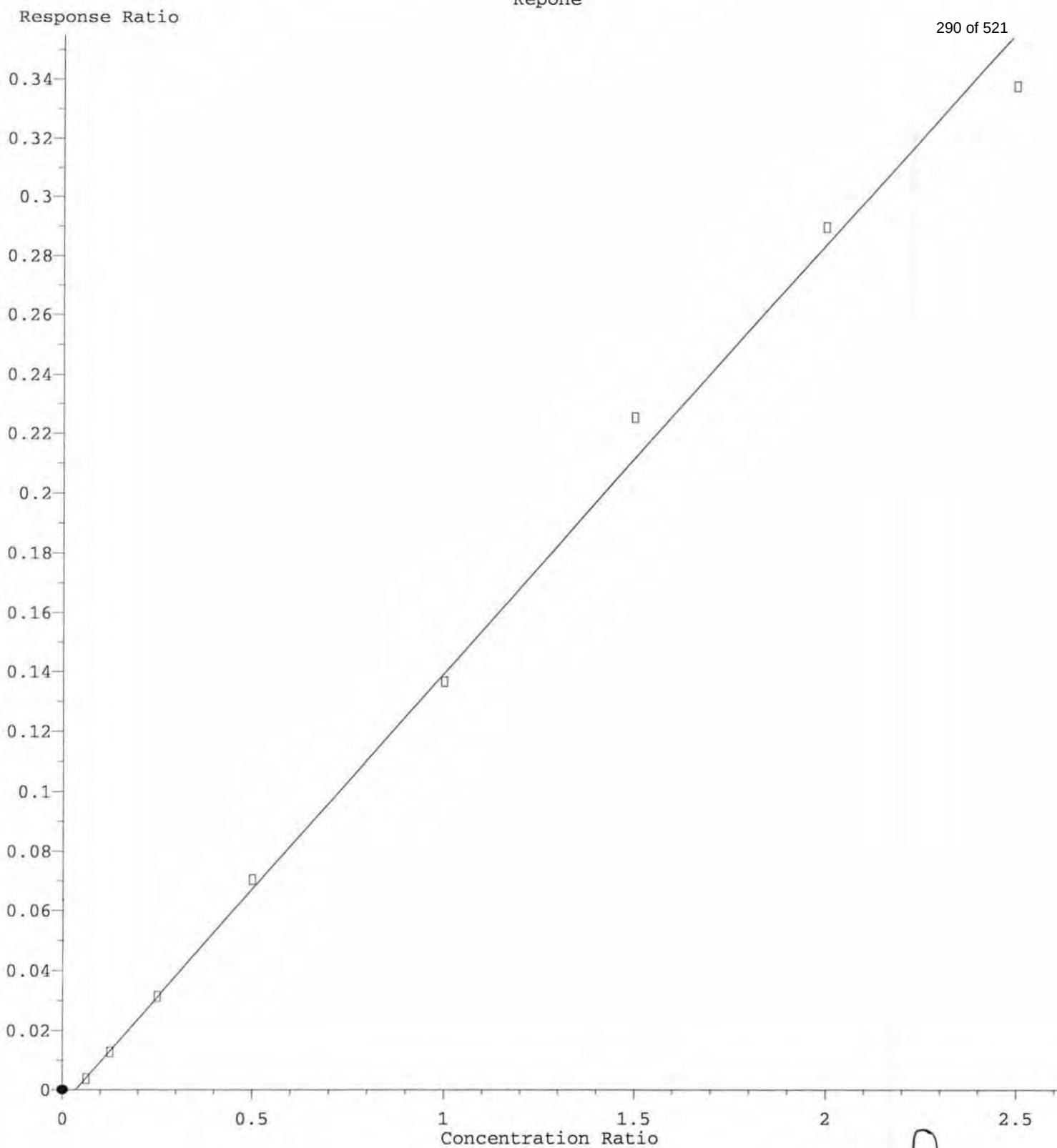
Response Ratio

289 of 521



[Handwritten signature]

Response = 1.397e-001 * Amt - 4.300e-003
 Coef of Det (r^2) = 0.990830 Curve Fit: wlr(1/a)
 Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M
 Calibration Table Last Updated: Wed Jul 23 12:40:45 2025



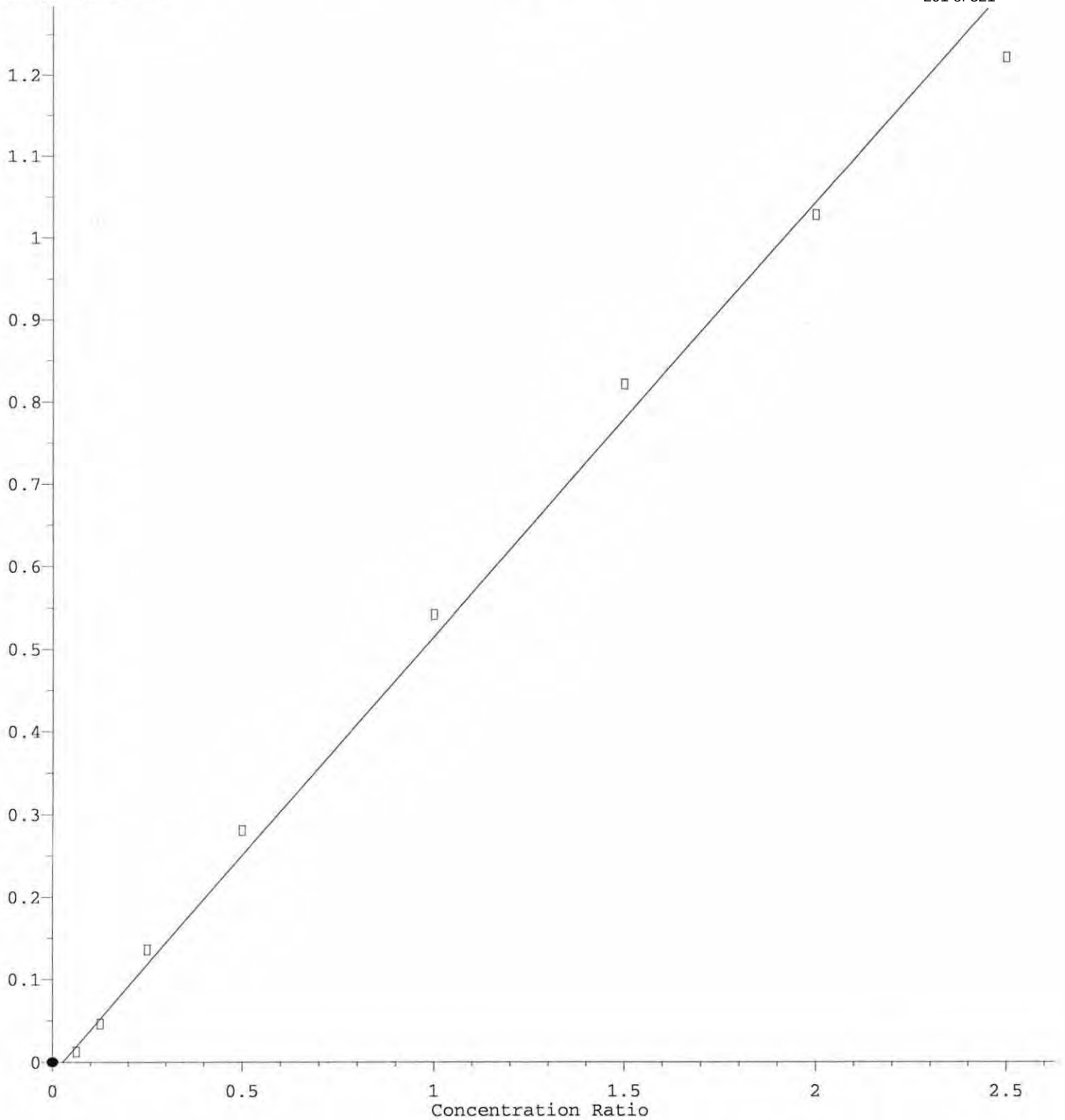
$$\text{Response} = 1.448\text{e-}001 * \text{Amt} - 5.016\text{e-}003$$

Coef of Det (r^2) = 0.997549 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Response Ratio



$$\text{Response} = 5.302\text{e-}001 * \text{Amt} - 1.447\text{e-}002$$

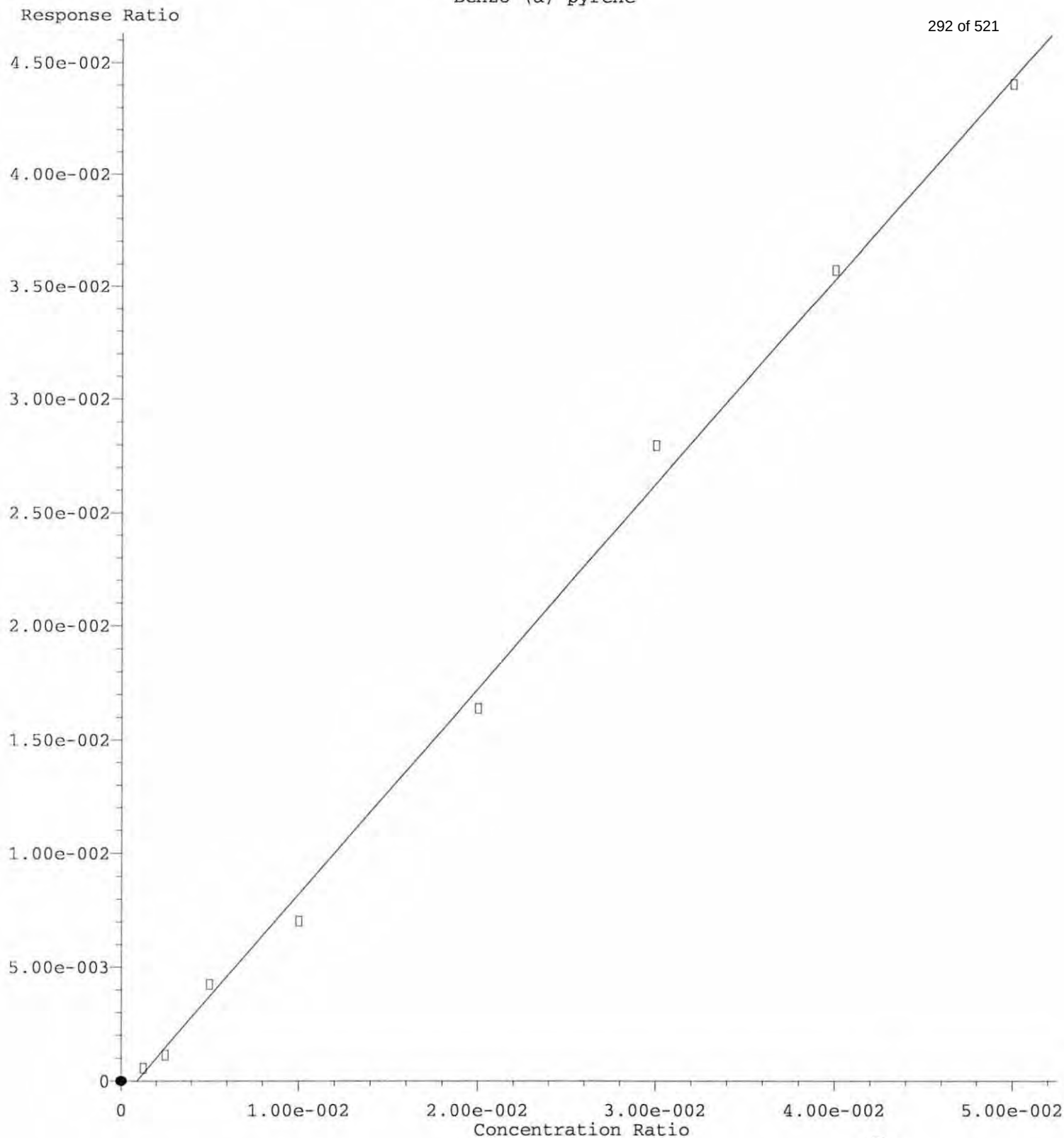
Coef of Det (r^2) = 0.994727 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

Benzo (a) pyrene

292 of 521



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$$\text{Response} = 9.031\text{e-}001 * \text{Amt} - 7.683\text{e-}004$$

Coef of Det (r^2) = 0.995720 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718PE.M

Calibration Table Last Updated: Wed Jul 23 12:40:45 2025

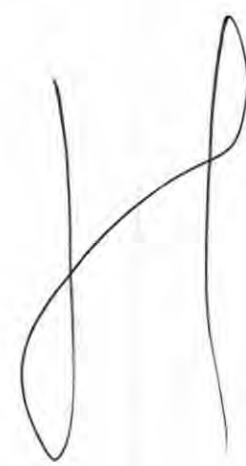
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071836.D
 Acq On : 19 Jul 2025 06:59 am
 Operator : BMS
 Sample : SEQ-CALP
 Misc : PEST
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 23 12:24:48 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

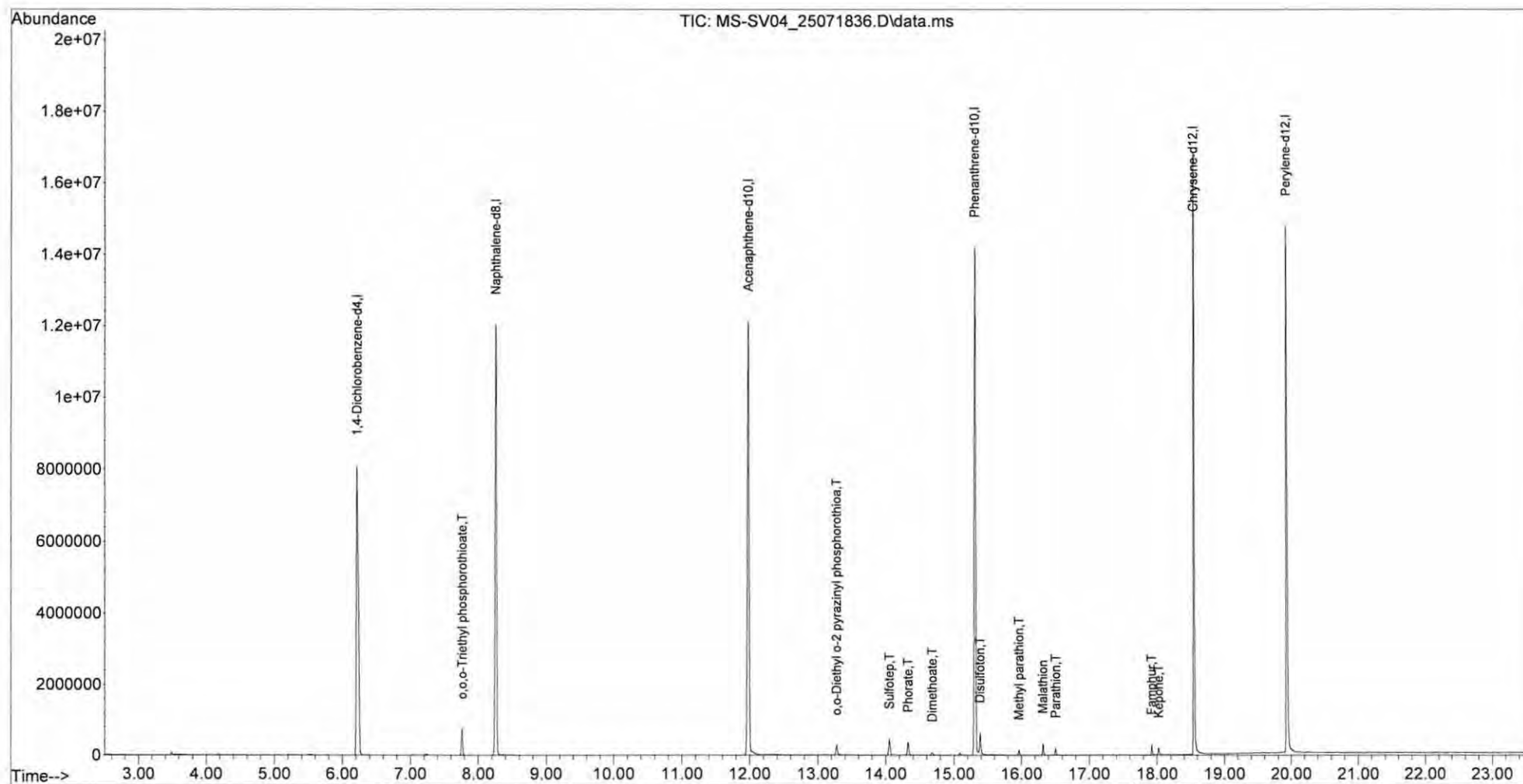
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4757925	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	9299795	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5059527	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.310	188	7824191	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	6270865	40.00	ug/ml	# 0.00
19) Perylene-d12	19.940	264	7234146	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	100044	2.37	ug/ml#	73
5) o,o-Diethyl o-2 pyrazi...	13.273	97	46743	1.97	ug/ml#	82
7) Sulfotep	14.052	97	46127	1.86	ug/ml#	78
8) Phorate	14.326	75	148789	1.95	ug/ml#	85
10) Dimethoate	14.681	87	30191	2.60	ug/ml#	81
11) Disulfoton	15.385	88	132080	2.10	ug/ml#	97
12) Methyl parathion	15.963	109	24405	2.49	ug/ml#	84
13) Malathion	16.317	125	40097	1.88	ug/ml	96
14) Parathion	16.506	109	21085	2.00	ug/ml	87
16) Kepone	18.023	272	23168	2.41	ug/ml#	93
17) Famphur	17.920	218	78565	2.04	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071836.D
Acq On : 19 Jul 2025 06:59 am
Operator : BMS
Sample : SEQ-CALP
Misc : PEST
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 23 12:24:48 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071837.D
 Acq On : 19 Jul 2025 07:27 am
 Operator : BMS
 Sample : SEQ-CALQ
 Misc : PEST
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 23 12:24:50 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

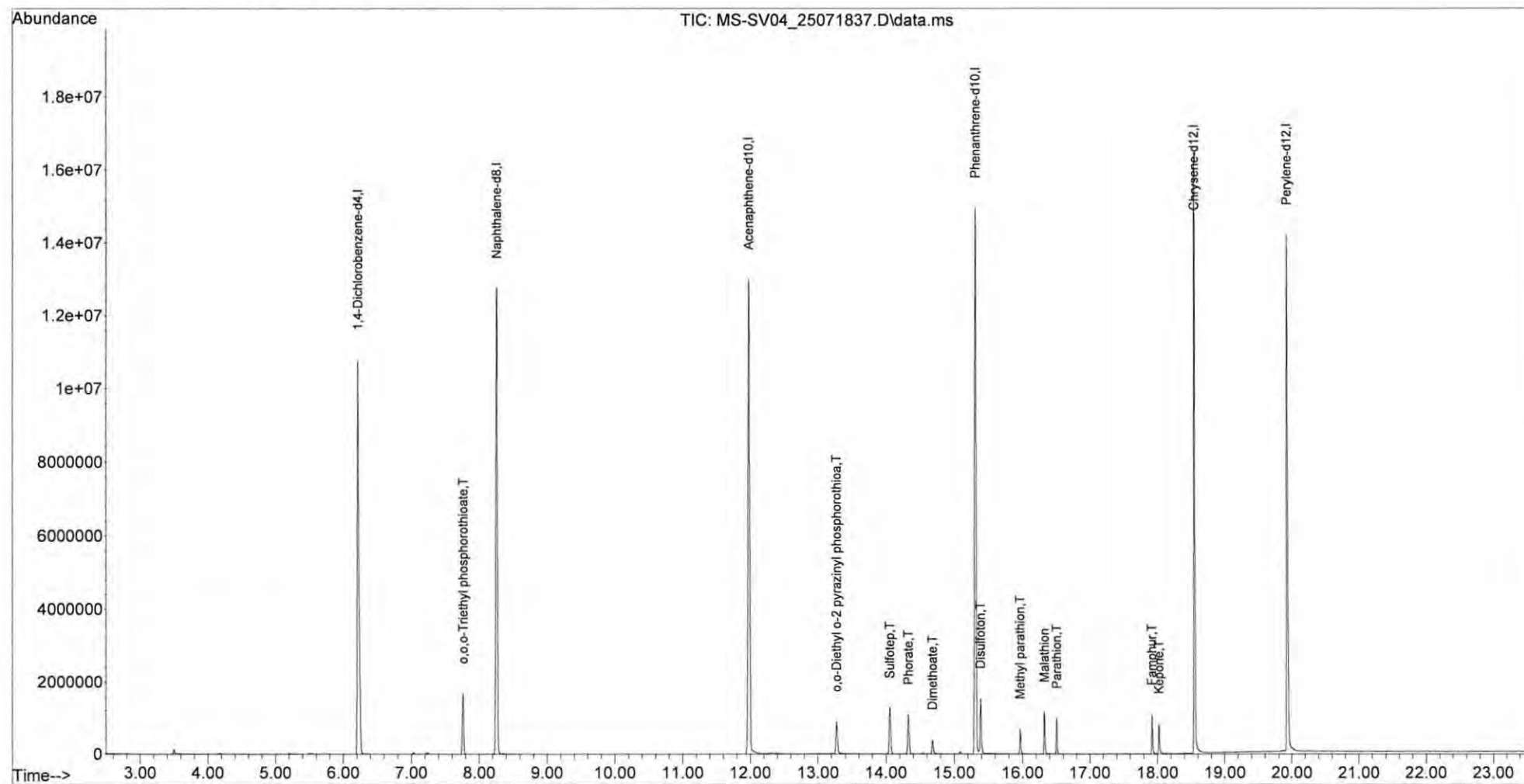
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	5007102	40.00	ug/ml	0.00
3) Naphthalene-d8	8.261	136	9932902	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5477878	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.316	188	8462930	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.555	240	6455151	40.00	ug/ml	# 0.00
19) Perylene-d12	19.939	264	7061239	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	239265	5.38	ug/ml#	72
5) o,o-Diethyl o-2 pyrazi...	13.273	97	152470	4.60	ug/ml#	82
7) Sulfotep	14.051	97	135538	5.04	ug/ml#	75
8) Phorate	14.326	75	436422	5.28	ug/ml#	85
10) Dimethoate	14.681	87	128436	4.50	ug/ml#	84
11) Disulfoton	15.385	88	378693	5.56	ug/ml#	97
12) Methyl parathion	15.963	109	118333	4.44	ug/ml#	87
13) Malathion	16.323	125	153208	4.70	ug/ml	94
14) Parathion	16.506	109	96815	4.51	ug/ml#	86
16) Kepone	18.023	272	82214	4.90	ug/ml#	95
17) Famphur	17.920	218	299443	4.59	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071837.D
Acq On : 19 Jul 2025 07:27 am
Operator : BMS
Sample : SEQ-CALQ
Misc : PEST
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 23 12:24:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071838.D
 Acq On : 19 Jul 2025 07:56 am
 Operator : BMS
 Sample : SEQ-CALR
 Misc : PEST
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 23 12:24:52 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

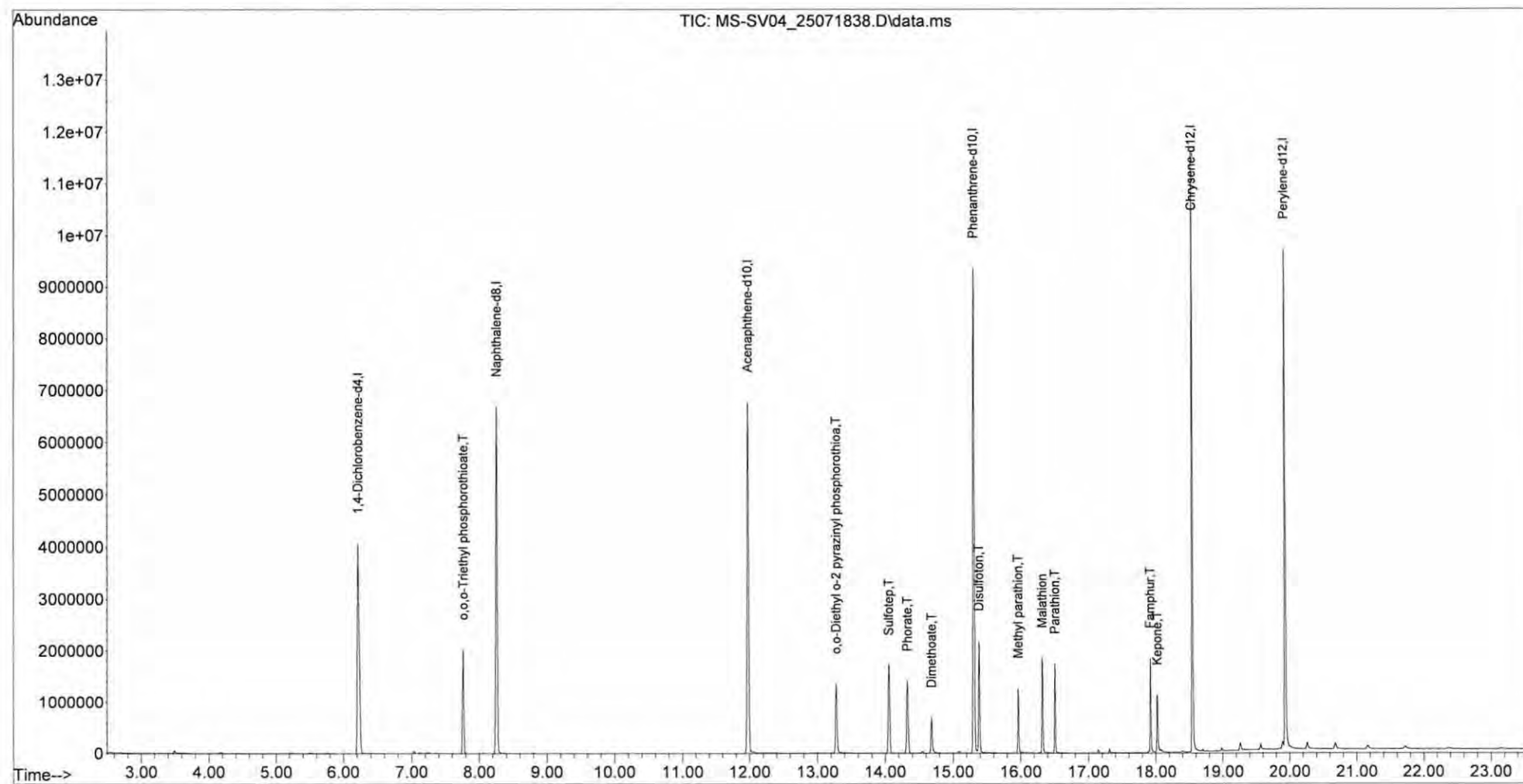
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	2241364	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	5037769	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.974	164	2719033	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.310	188	4924904	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	3964275	40.00	ug/ml	# 0.00
19) Perylene-d12	19.934	264	4354005	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	281637	14.16	ug/ml#	73
5) o,o-Diethyl o-2 pyrazi...	13.273	97	226328	12.43	ug/ml#	83
7) Sulfotep	14.051	97	188193	12.03	ug/ml#	74
8) Phorate	14.326	75	602889	12.54	ug/ml#	85
10) Dimethoate	14.681	87	224616	9.62	ug/ml#	85
11) Disulfoton	15.385	88	521626	13.15	ug/ml#	98
12) Methyl parathion	15.963	109	211820	9.66	ug/ml#	85
13) Malathion	16.317	125	238615	11.30	ug/ml	93
14) Parathion	16.506	109	168049	11.00	ug/ml#	85
16) Kepone	18.023	272	124427	10.06	ug/ml	96
17) Famphur	17.920	218	538285	11.34	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071838.D
Acq On : 19 Jul 2025 07:56 am
Operator : BMS
Sample : SEQ-CALR
Misc : PEST
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 23 12:24:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071839.D
 Acq On : 19 Jul 2025 08:24 am
 Operator : BMS
 Sample : SEQ-CALS
 Misc : PEST
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 23 12:24:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

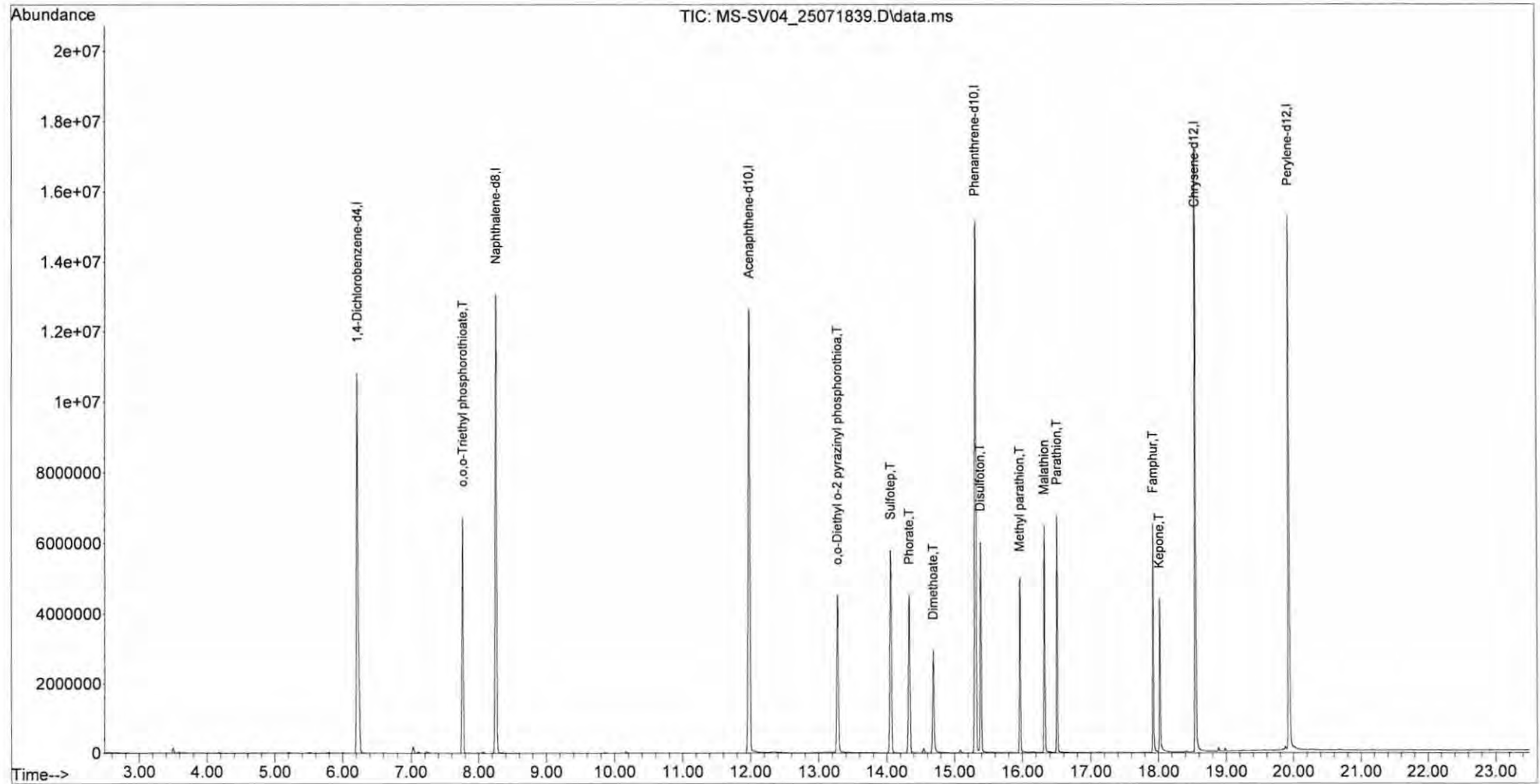
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4966802	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	9945920	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5346123	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.310	188	8603933	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.555	240	6842673	40.00	ug/ml	# 0.00
19) Perylene-d12	19.939	264	7506546	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	926097	21.01	ug/ml#	73
5) o,o-Diethyl o-2 pyrazi...	13.273	97	792010	21.61	ug/ml#	81
7) Sulfotep	14.057	97	622641	22.79	ug/ml#	66
8) Phorate	14.332	75	1939979	23.10	ug/ml#	83
10) Dimethoate	14.687	87	983846	21.18	ug/ml#	85
11) Disulfoton	15.385	88	1576997	22.75	ug/ml#	97
12) Methyl parathion	15.963	109	959815	21.97	ug/ml#	83
13) Malathion	16.323	125	866630	22.65	ug/ml	92
14) Parathion	16.506	109	660500	23.20	ug/ml#	81
16) Kepone	18.017	272	481932	20.84	ug/ml	96
17) Famphur	17.925	218	1919932	22.26	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071839.D
Acq On : 19 Jul 2025 08:24 am
Operator : BMS
Sample : SEQ-CALS
Misc : PEST
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 23 12:24:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
Qlast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071840.D
Acq On : 19 Jul 2025 08:53 am
Operator : BMS
Sample : SEQ-CALT
Misc : PEST
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 23 12:24:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
Qlast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

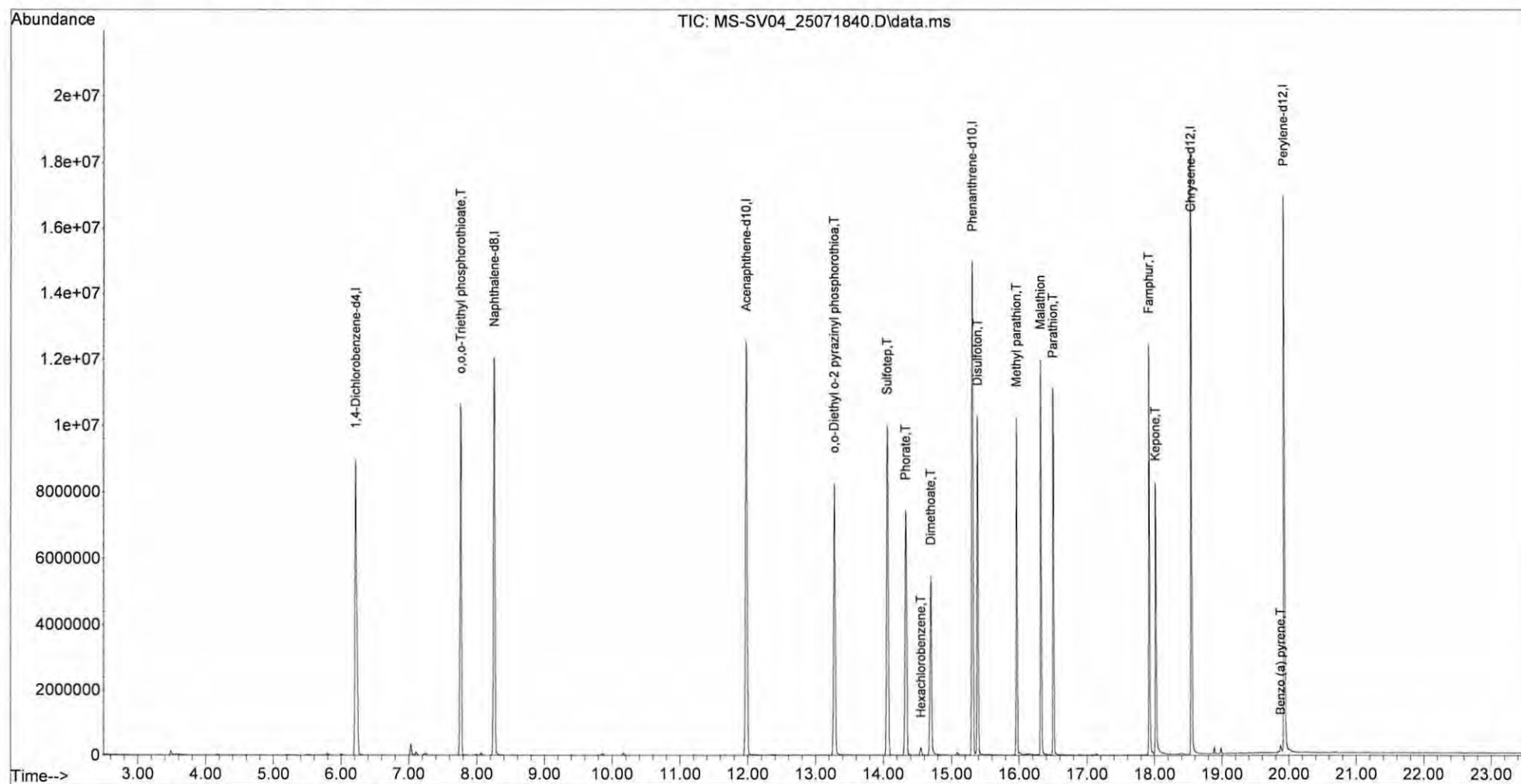
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4807208	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	9498087	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5234072	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.316	188	8510389	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.555	240	7109033	40.00	ug/ml	# 0.00
19) Perylene-d12	19.939	264	8011125	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	1577834	36.99	ug/ml#	74
5) o,o-Diethyl o-2 pyrazi...	13.279	97	1459067	40.09	ug/ml#	81
7) Sulfotep	14.063	97	1090894	40.37	ug/ml#	58
8) Phorate	14.332	75	3325084	40.02	ug/ml#	80
9) Hexachlorobenzene	14.549	284	53986	0.78	ug/ml	95
10) Dimethoate	14.698	87	1972375	40.93	ug/ml#	83
11) Disulfoton	15.390	88	2659580	38.80	ug/ml#	95
12) Methyl parathion	15.968	109	1909178	42.22	ug/ml#	81
13) Malathion	16.323	125	1667307	43.33	ug/ml	91
14) Parathion	16.506	109	1239116	42.91	ug/ml#	78
16) Kepone	18.023	272	972525	39.17	ug/ml	97
17) Famphur	17.925	218	3852710	41.98	ug/ml#	92
18) Benzo (a) pyrene	19.877	252	116593	0.76	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071840.D
Acq On : 19 Jul 2025 08:53 am
Operator : BMS
Sample : SEQ-CALT
Misc : PEST
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 23 12:24:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071841.D
 Acq On : 19 Jul 2025 09:21 am
 Operator : BMS
 Sample : SEQ-CALU
 Misc : PEST
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 23 12:24:58 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

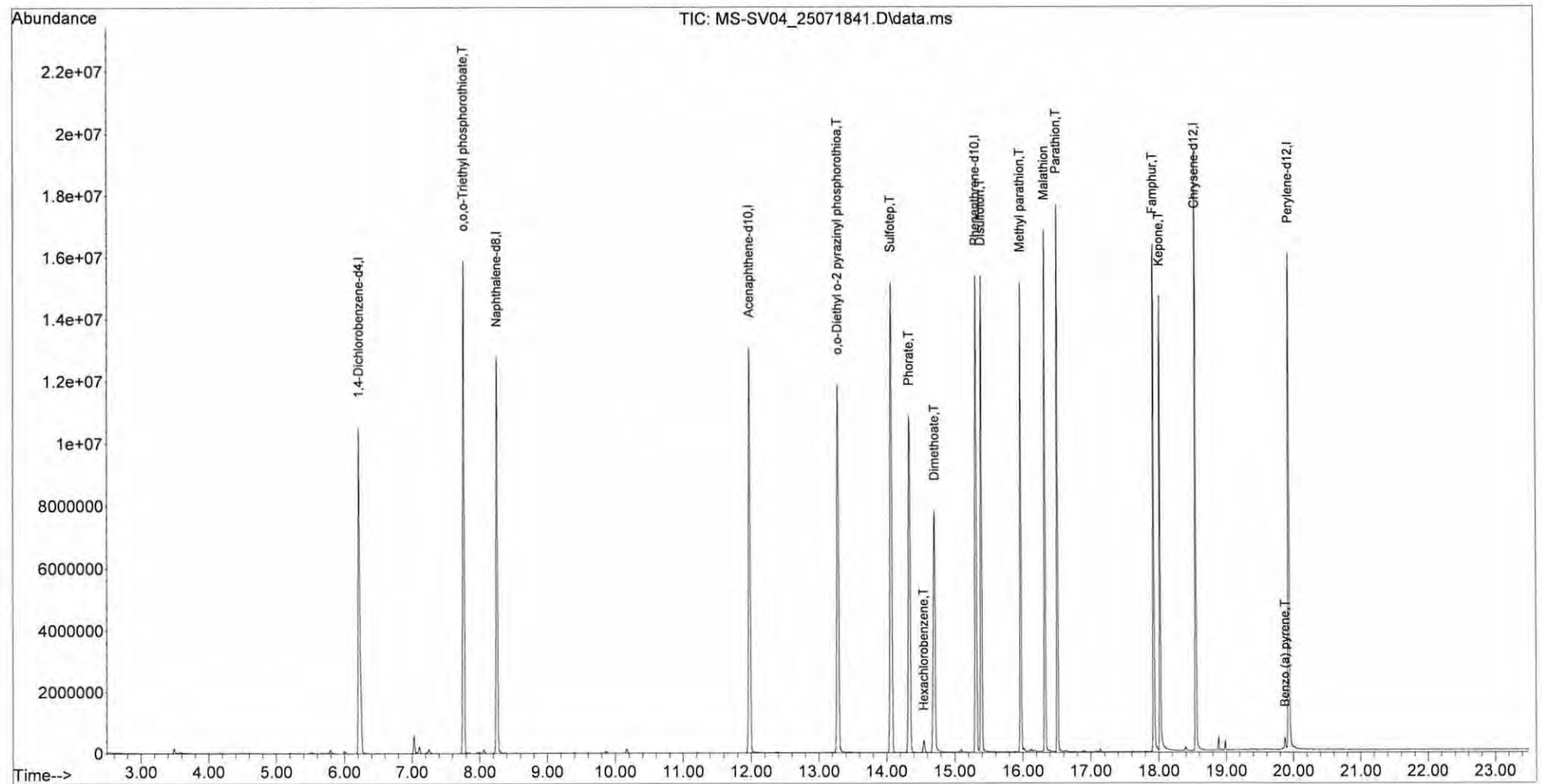
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4944275	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	9850209	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5378070	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.316	188	8813410	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	7297572	40.00	ug/ml	# 0.00
19) Perylene-d12	19.940	264	8017896	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.769	121	2387833	54.42	ug/ml#	75
5) o,o-Diethyl o-2 pyrazi...	13.285	97	2320606	61.69	ug/ml#	79
7) Sulfotep	14.069	97	1718799	61.42	ug/ml#	47
8) Phorate	14.338	75	5057325	58.78	ug/ml#	78
9) Hexachlorobenzene	14.544	284	89110	1.24	ug/ml	95
10) Dimethoate	14.710	87	3266863	64.29	ug/ml#	81
11) Disulfoton	15.396	88	3979088	56.05	ug/ml#	93
12) Methyl parathion	15.974	109	3044054	63.95	ug/ml#	76
13) Malathion	16.329	125	2554073	63.72	ug/ml	88
14) Parathion	16.512	109	1940508	64.25	ug/ml#	73
16) Kepone	18.023	272	1647291	63.74	ug/ml	96
17) Famphur	17.931	218	5999444	63.12	ug/ml#	92
18) Benzo (a) pyrene	19.877	252	204232	1.27	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071841.D
Acq On : 19 Jul 2025 09:21 am
Operator : BMS
Sample : SEQ-CALU
Misc : PEST
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 23 12:24:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071842.D
 Acq On : 19 Jul 2025 09:50 am
 Operator : BMS
 Sample : SEQ-CALV
 Misc : PEST
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 23 12:25:00 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:24:28 2025
 Response via : Initial Calibration

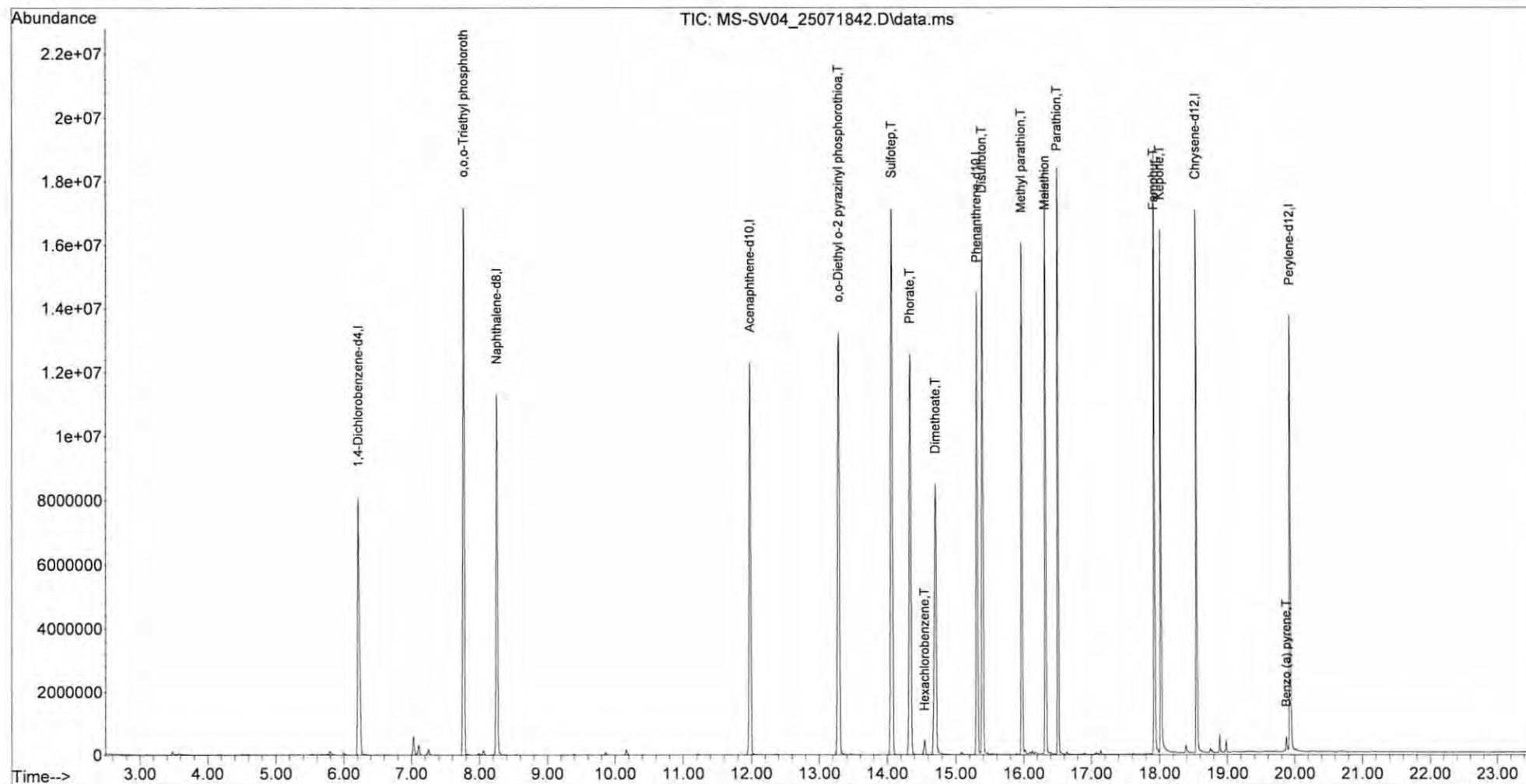
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4373851	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	8838413	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	5005199	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.316	188	7818850	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	6290899	40.00	ug/ml	# 0.00
19) Perylene-d12	19.939	264	6723765	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.769	121	2683770	69.14	ug/ml#	75
5) o,o-Diethyl o-2 pyrazi...	13.290	97	2634796	75.11	ug/ml#	79
7) Sulfotep	14.074	97	1938337	78.08	ug/ml#	44
8) Phorate	14.343	75	5681426	74.43	ug/ml#	77
9) Hexachlorobenzene	14.549	284	102680	1.62	ug/ml	95
10) Dimethoate	14.709	87	3659226	80.66	ug/ml#	81
11) Disulfoton	15.396	88	4444575	70.57	ug/ml#	93
12) Methyl parathion	15.974	109	3406255	80.16	ug/ml#	76
13) Malathion	16.329	125	2836507	79.58	ug/ml	89
14) Parathion	16.512	109	2131861	79.28	ug/ml#	72
16) Kepone	18.023	272	1825605	81.54	ug/ml	97
17) Famphur	17.931	218	6476590	78.77	ug/ml#	92
18) Benzo (a) pyrene	19.876	252	225052	1.62	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071842.D
Acq On : 19 Jul 2025 09:50 am
Operator : BMS
Sample : SEQ-CALV
Misc : PEST
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jul 23 12:25:00 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071843.D
Acq On : 19 Jul 2025 10:18 am
Operator : BMS
Sample : SEQ-CALW
Misc : PEST
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jul 23 12:25:02 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

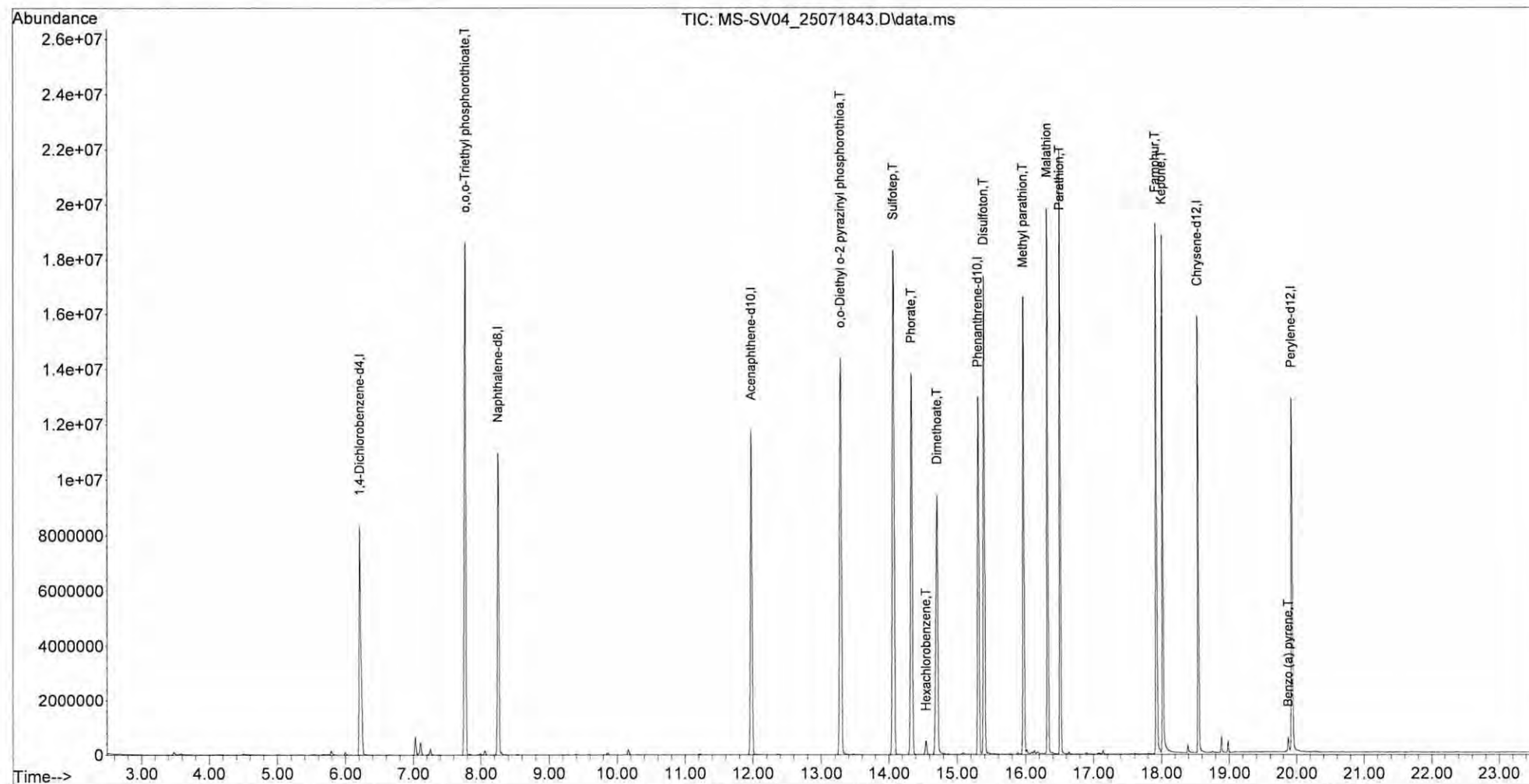
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4216509	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	8479848	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	4820019	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.310	188	7613134	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	6079169	40.00	ug/ml	# 0.00
19) Perylene-d12	19.933	264	6427409	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.774	121	3041610	81.29	ug/ml#	76
5) o,o-Diethyl o-2 pyrazi...	13.290	97	2942653	87.01	ug/ml#	78
7) Sulfotep	14.074	97	2167404	89.66	ug/ml#	42
8) Phorate	14.343	75	6283371	84.54	ug/ml#	76
9) Hexachlorobenzene	14.549	284	119171	1.93	ug/ml	96
10) Dimethoate	14.715	87	4153704	93.72	ug/ml#	80
11) Disulfoton	15.396	88	4977810	81.17	ug/ml#	93
12) Methyl parathion	15.974	109	3844230	92.61	ug/ml#	75
13) Malathion	16.328	125	3138787	90.33	ug/ml	87
14) Parathion	16.517	109	2370423	90.35	ug/ml#	70
16) Kepone	18.022	272	2056785	94.84	ug/ml	96
17) Famphur	17.931	218	7438685	93.41	ug/ml#	92
18) Benzo (a) pyrene	19.876	252	268196	1.99	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071843.D
Acq On : 19 Jul 2025 10:18 am
Operator : BMS
Sample : SEQ-CALW
Misc : PEST
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jul 23 12:25:02 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:24:28 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071914.D
 Acq On : 23 Jul 2025 01:50 pm
 Operator : BMS
 Sample : SEQ-ICV1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

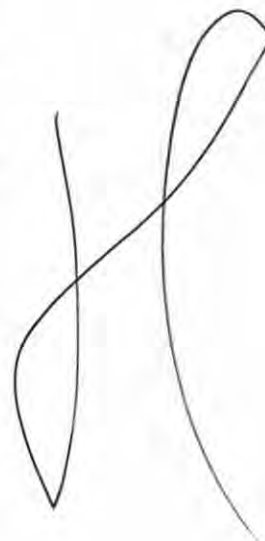
Quant Time: Jul 23 15:13:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 10:30:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	3315958	40.00	ug/ml	0.00
21) Naphthalene-d8	8.266	136	10376875	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.997	164	6287541	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.322	188	9729707	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.566	240	7198314	40.00	ug/ml	0.00
81) Perylene-d12	19.951	264	7134051	40.00	ug/ml	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	4423592	41.23	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	41.23%		
5) Phenol-d5	5.760	99	4420439	38.21	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	38.21%#		
19) Nitrobenzene-d5	7.025	82	3760666	39.45	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	78.90%		
39) 2-Fluorobiphenyl	10.504	172	8659288	38.50	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	77.00%		
64) 2,4,6-Tribromophenol	13.845	330	1655818	43.23	ug/ml	0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	43.23%		
75) p-Terphenyl-d14	17.479	244	8699458	41.47	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	82.94%		

Target Compounds					Qvalue
2) Pyridine	3.208	79	4235052m	42.31	ug/ml
3) N-Nitrosodimethylamine	3.214	74	2180353	38.51	ug/ml#
6) Aniline	5.823	93	5463523	39.57	ug/ml#
7) Phenol	5.777	94	4810259	38.18	ug/ml#
8) Bis (2-chloroethyl) ether	5.892	93	3730790	38.08	ug/ml#
9) 2-Chlorophenol	5.955	128	4287237	40.75	ug/ml#
10) 1,3-Dichlorobenzene	6.144	146	5033232	40.39	ug/ml
11) 1,4-Dichlorobenzene	6.241	146	4856990	39.91	ug/ml
12) Benzyl alcohol	6.401	108	2507940	41.07	ug/ml
13) 1,2-Dichlorobenzene	6.447	146	4729884	39.90	ug/ml
14) o-Cresol	6.544	108	3472122	38.63	ug/ml
15) Bis (2-chloroisopropyl)...	6.596	121	1526520	39.26	ug/ml#
16) p-Cresol	6.784	107	3534929	37.16	ug/ml
17) N-nitrosodi-n-propyl a...	6.802	70	2212053	36.67	ug/ml#
18) Hexachloroethane	6.950	117	1850968	40.64	ug/ml
20) Nitrobenzene	7.059	77	3522405	38.33	ug/ml#
22) Isophorone	7.454	82	6464505	37.13	ug/ml
23) 2-Nitrophenol	7.580	139	2111438	45.26	ug/ml#
24) 2,4-Dimethylphenol	7.654	122	3301702	39.51	ug/ml
25) Bis (2-chloroethoxy) m...	7.832	93	3886627	37.09	ug/ml#
26) 2,4-Dichlorophenol	8.003	162	3368599	43.14	ug/ml
27) 1,2,4-Trichlorobenzene	8.163	180	4023234	40.88	ug/ml
28) Benzoic acid	7.849	105	1574354	45.77	ug/ml#
29) Naphthalene	8.306	128	9979953	36.81	ug/ml
30) 4-Chloroaniline	8.409	127	4251741	40.34	ug/ml
31) Hexachlorobutadiene	8.547	225	2679241	42.51	ug/ml
32) p-Chloro-m-cresol	9.388	107	3064765	41.36	ug/ml



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071914.D
 Acq On : 23 Jul 2025 01:50 pm
 Operator : BMS
 Sample : SEQ-ICV1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 10:30:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.691	142	6724431	39.36	ug/ml	98
34) 1-Methylnaphthalene	9.897	142	6917622	39.03	ug/ml	96
35) Hexachlorocyclopentadiene	10.029	237	1786959	44.25	ug/ml#	98
37) 2,4,6-Trichlorophenol	10.304	196	2491986	46.87	ug/ml	99
38) 2,4,5-Trichlorophenol	10.372	198	2502838	47.49	ug/ml	99
40) 2-Chloronaphthalene	10.738	162	7041882	40.07	ug/ml#	98
41) 2-Nitroaniline	10.984	65	1557563	41.00	ug/ml#	71
42) 1,4-Dinitrobenzene	11.322	75	1167514	42.28	ug/ml#	38
43) 1,2-Dinitrobenzene	11.677	168	948046	46.22	ug/ml	95
44) Dimethyl phthalate	11.465	163	8144686	40.14	ug/ml#	97
45) Acenaphthylene	11.665	152	10563501	38.86	ug/ml	99
46) 2,6-Dinitrotoluene	11.574	165	2077753	46.23	ug/ml#	85
47) 1,3-Dinitrobenzene	11.494	168	1484307	45.38	ug/ml#	61
48) 3-Nitroaniline	11.940	138	1813264	45.47	ug/ml#	85
49) Acenaphthene	12.072	154	6428880	38.78	ug/ml	99
50) 2,4-Dinitrophenol	12.180	184	801410	55.93	ug/ml#	81
51) Dibenzofuran	12.472	168	9343699	39.79	ug/ml	99
52) 4-Nitrophenol	12.386	109	831788	36.82	ug/ml#	85
53) 2,4-Dinitrotoluene	12.495	165	2530356	43.92	ug/ml#	89
54) 2,3,5,6-Tetrachlorophenol	12.672	232	2181326m	44.51	ug/ml	
55) 2,3,4,6-Tetrachlorophenol	12.775	232	2203293	44.07	ug/ml	93
56) Diethyl phthalate	13.124	149	7958072	40.40	ug/ml	92
57) Fluorene	13.279	166	7870309	40.02	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.319	204	4263451	41.27	ug/ml	98
59) 4-Nitroaniline	13.359	138	1226597	39.86	ug/ml	87
60) 4,6-Dinitro-2-methylph...	13.445	198	1338721	54.60	ug/ml#	66
61) N-Nitrosodiphenylamine	13.617	169	6704243	40.93	ug/ml	96
62) Azobenzene	13.697	77	5997625	36.35	ug/ml#	87
65) 4-Bromophenyl phenyl e...	14.475	248	2743718	43.48	ug/ml	96
66) Hexachlorobenzene	14.566	284	3365174	43.46	ug/ml#	89
67) Pentachlorophenol	14.990	266	1610663	45.12	ug/ml	99
68) Phenanthrene	15.368	178	9730467	37.05	ug/ml	100
69) Anthracene	15.453	178	9808320	38.31	ug/ml	99
70) Carbazole	15.734	167	9410610	43.92	ug/ml	99
71) Di-n-butyl phthalate	16.294	149	10412458	38.31	ug/ml	97
72) Fluoranthene	17.033	202	9921198	36.35	ug/ml	99
74) Pyrene	17.296	202	10150017	38.04	ug/ml	99
76) Butyl benzyl phthalate	17.988	149	4646527m	43.57	ug/ml	
77) Bis (2-ethylhexyl) adi...	18.057	129	3711375	41.99	ug/ml#	78
78) Benzo (a) anthracene	18.555	228	8656991	40.04	ug/ml	99
79) Chrysene	18.589	228	8302793	39.04	ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.538	149	5833943	39.98	ug/ml#	91
82) Di-n-octyl phthalate	19.121	149	8727100	38.89	ug/ml#	86
83) Benzo (b) fluoranthene	19.556	252	7937641	42.35	ug/ml	98
84) Benzo (k) fluoranthene	19.585	252	8458965	41.29	ug/ml#	96
85) Benzo (a) pyrene	19.894	252	7789072	44.06	ug/ml#	95
86) Indeno (1,2,3-cd) pyrene	21.250	276	8420180	41.24	ug/ml#	82
87) Dibenz (a,h) anthracene	21.255	278	6641207	42.01	ug/ml#	93
88) Benzo (g,h,i) perylene	21.639	276	6900361	41.69	ug/ml#	89

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

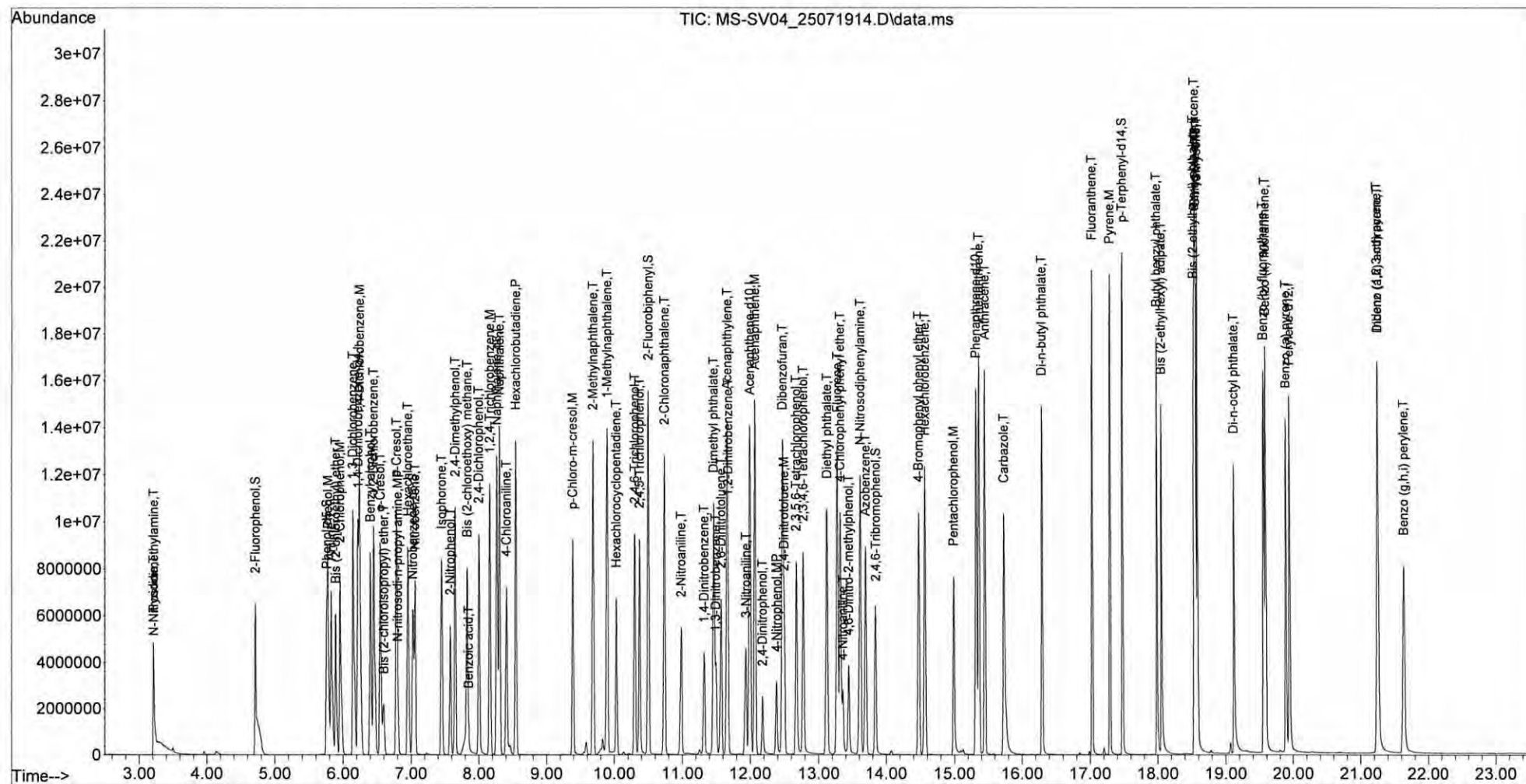
Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

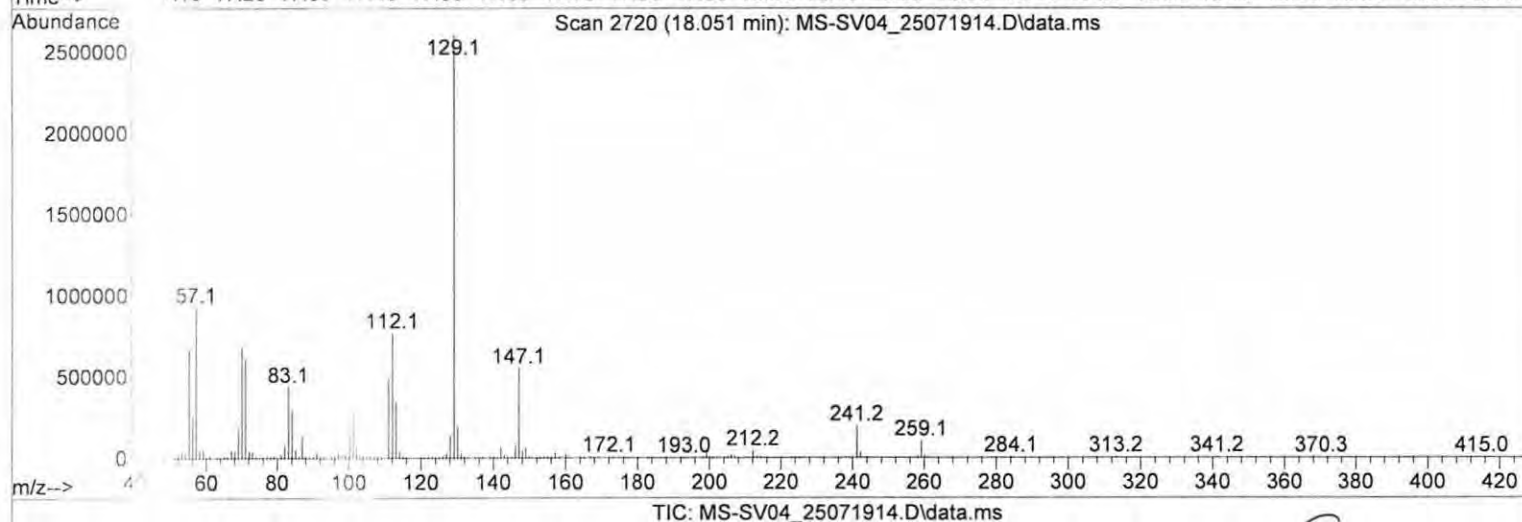
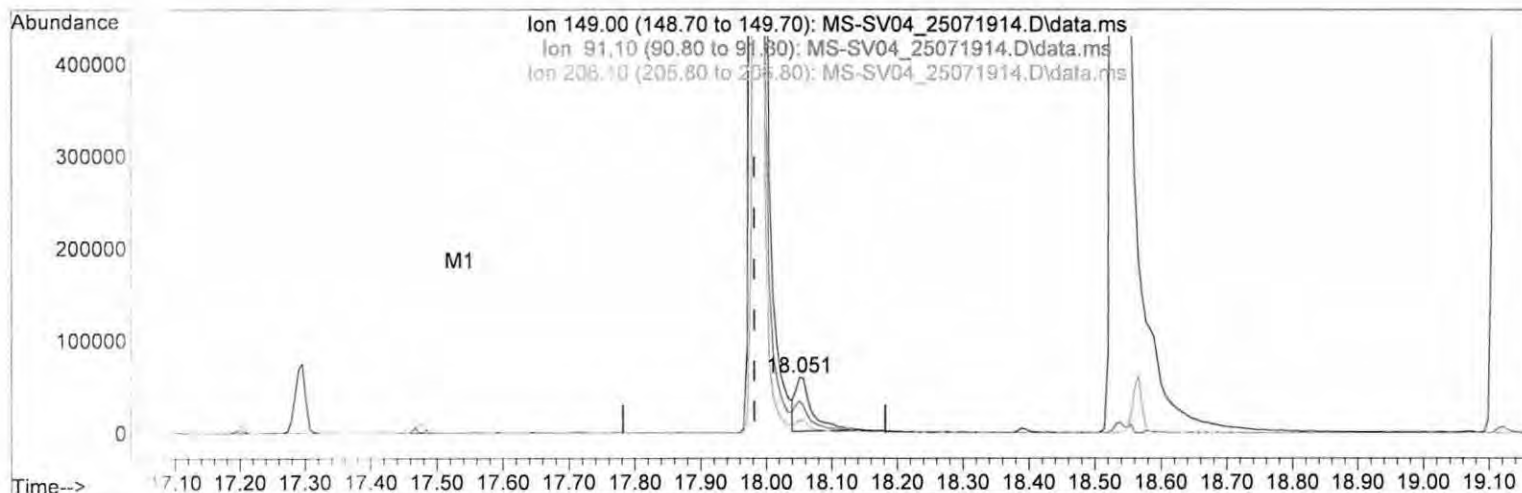
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(76) Butyl benzyl phthalate (T)

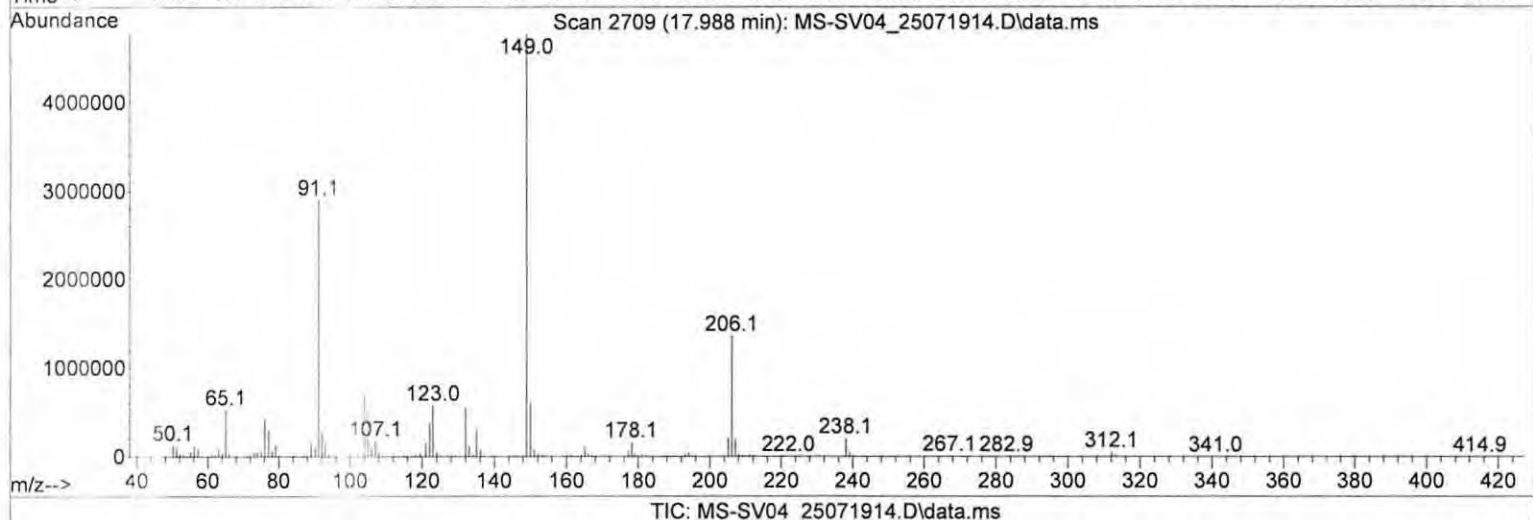
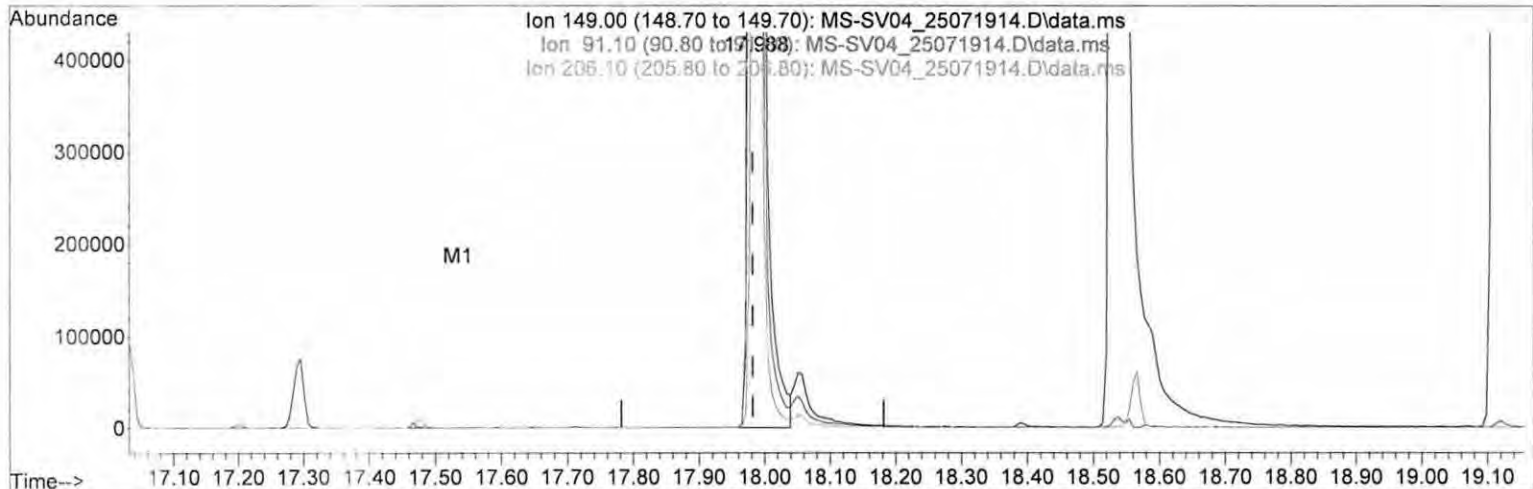
18.051min (+ 0.069) 2.74 ug/ml

Response 101747

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	56.86
206.10	20.30	23.36
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(76) Butyl benzyl phthalate (T)

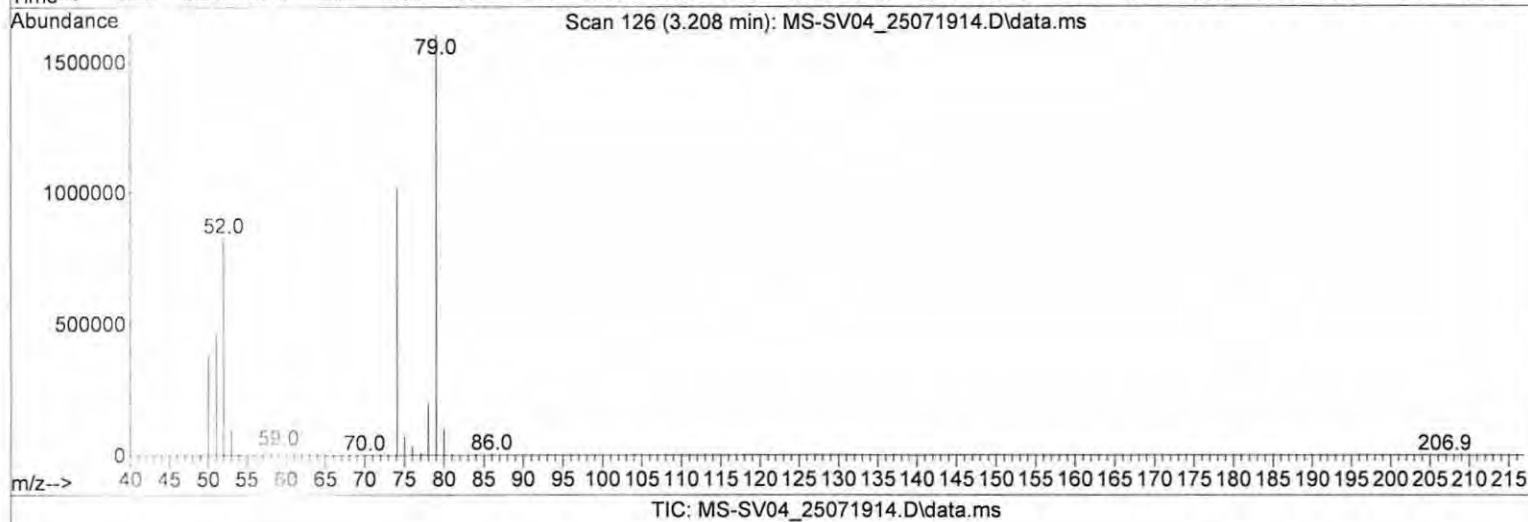
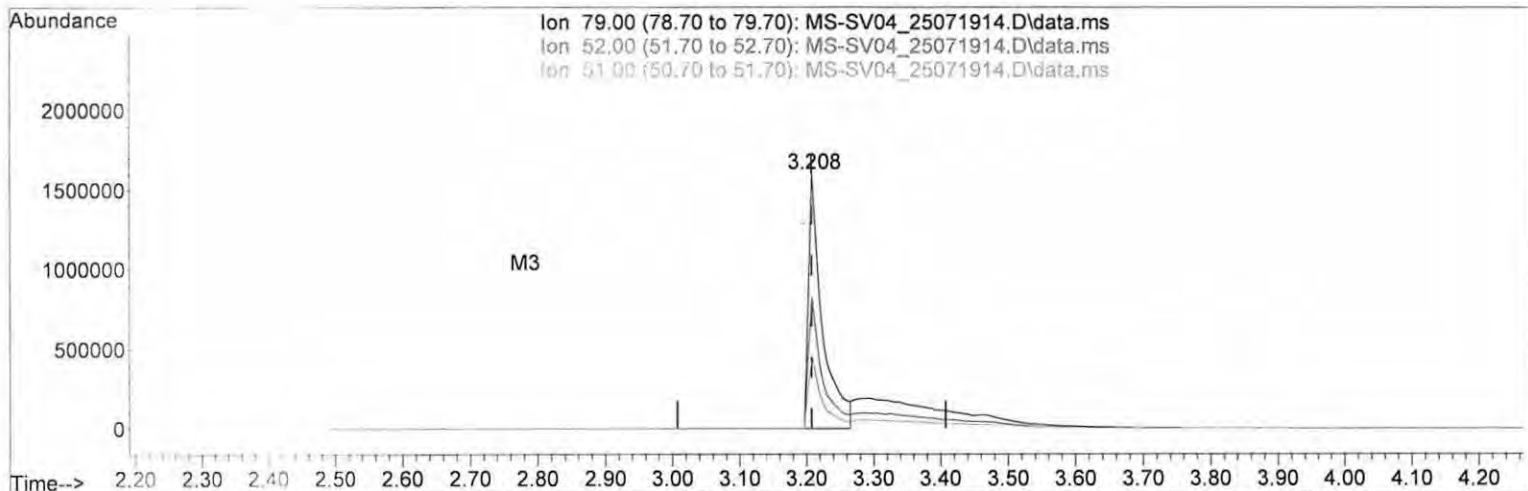
17.988min (+ 0.006) 43.57 ug/ml m

response 4646527

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	1.24#
206.10	20.30	0.51#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(2) Pyridine (T)

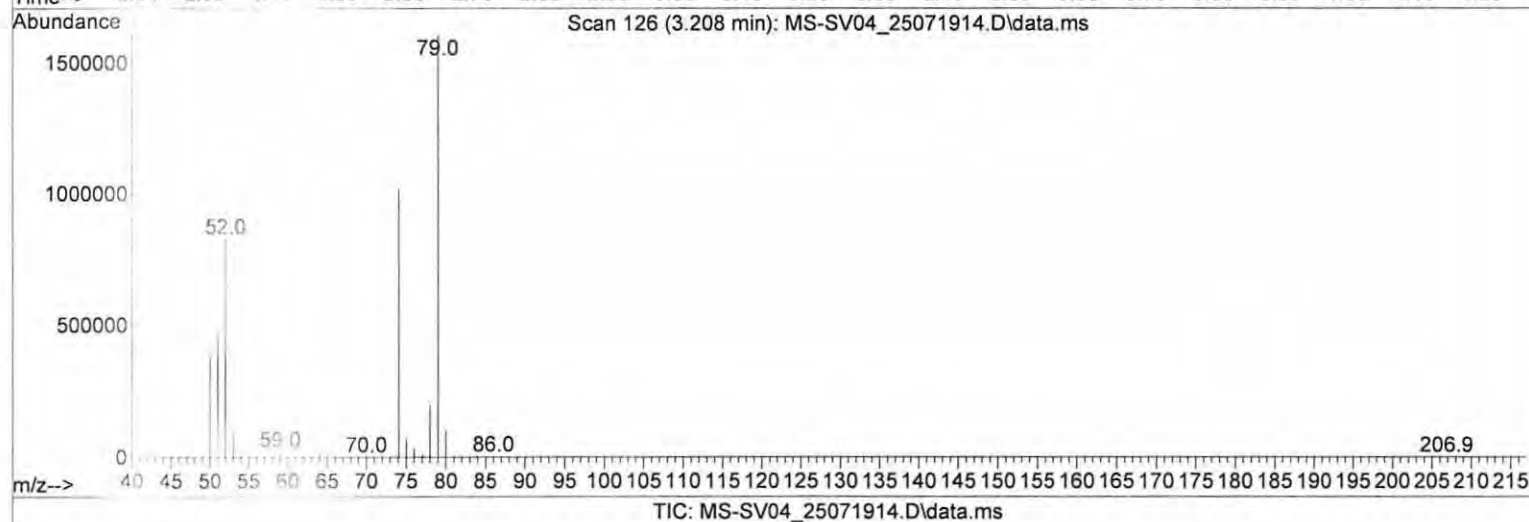
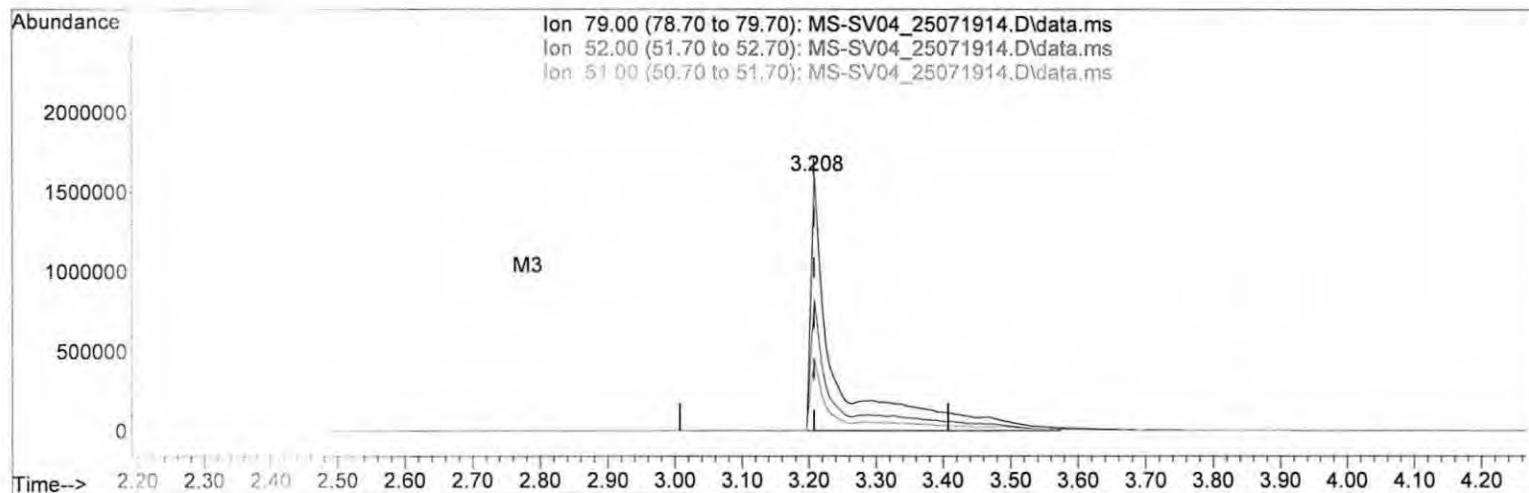
3.208min (+ 0.000) 23.05 ug/ml

response 2307709

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	52.20#
51.00	62.40	28.22#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(2) Pyridine (T)

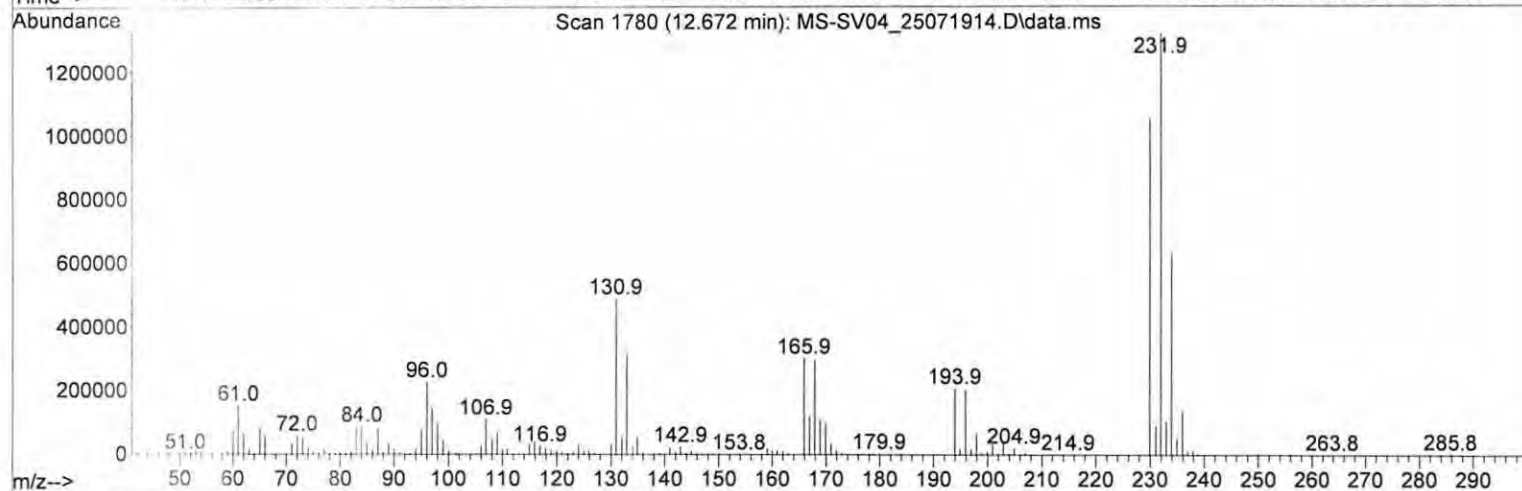
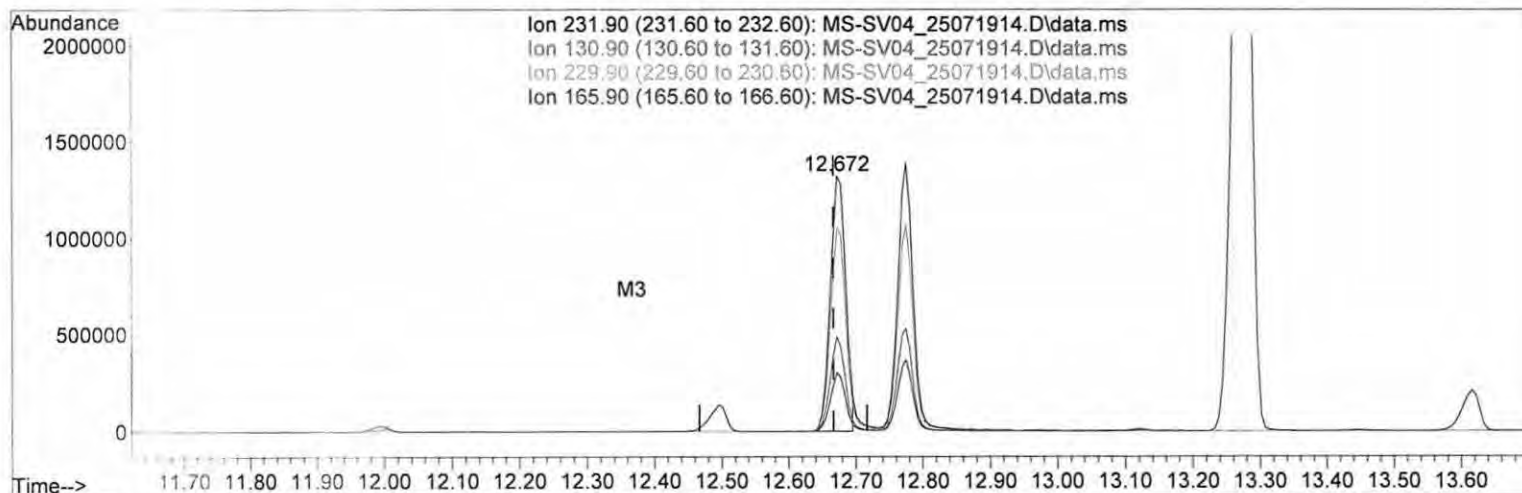
3.208min (+ 0.000) 42.31 ug/ml m

response 4235052

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	28.44#
51.00	62.40	15.38#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



TIC: MS-SV04_25071914.D\data.ms

(54) 2,3,5,6-Tetrachlorophenol (T)

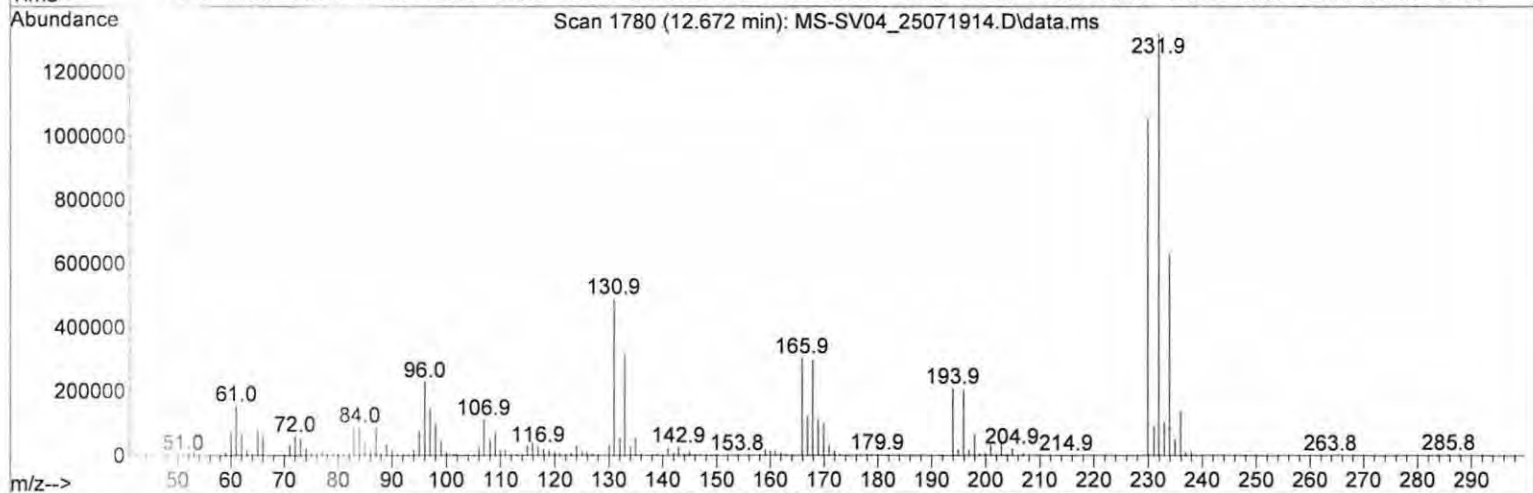
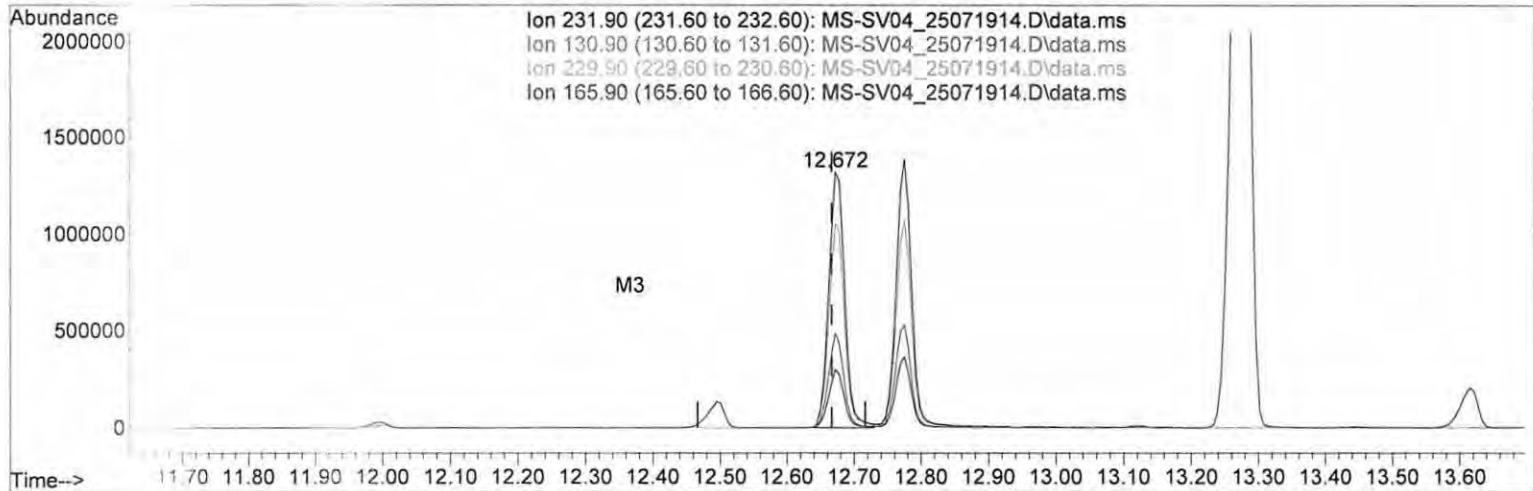
12.672min (+ 0.005) 43.03 ug/ml

response 2104909

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	35.86
229.90	79.50	78.90
165.90	23.50	22.28

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



TIC: MS-SV04_25071914.D\data.ms

(54) 2,3,5,6-Tetrachlorophenol (T)

12.672min (+ 0.005) 44.51 ug/ml m

response 2181326

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	34.60
229.90	79.50	76.13
165.90	23.50	21.50

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071915.D
Acq On : 23 Jul 2025 02:40 pm
Operator : BMS
Sample : SEQ-CALH
Misc : BENZ
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 15:23:12 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

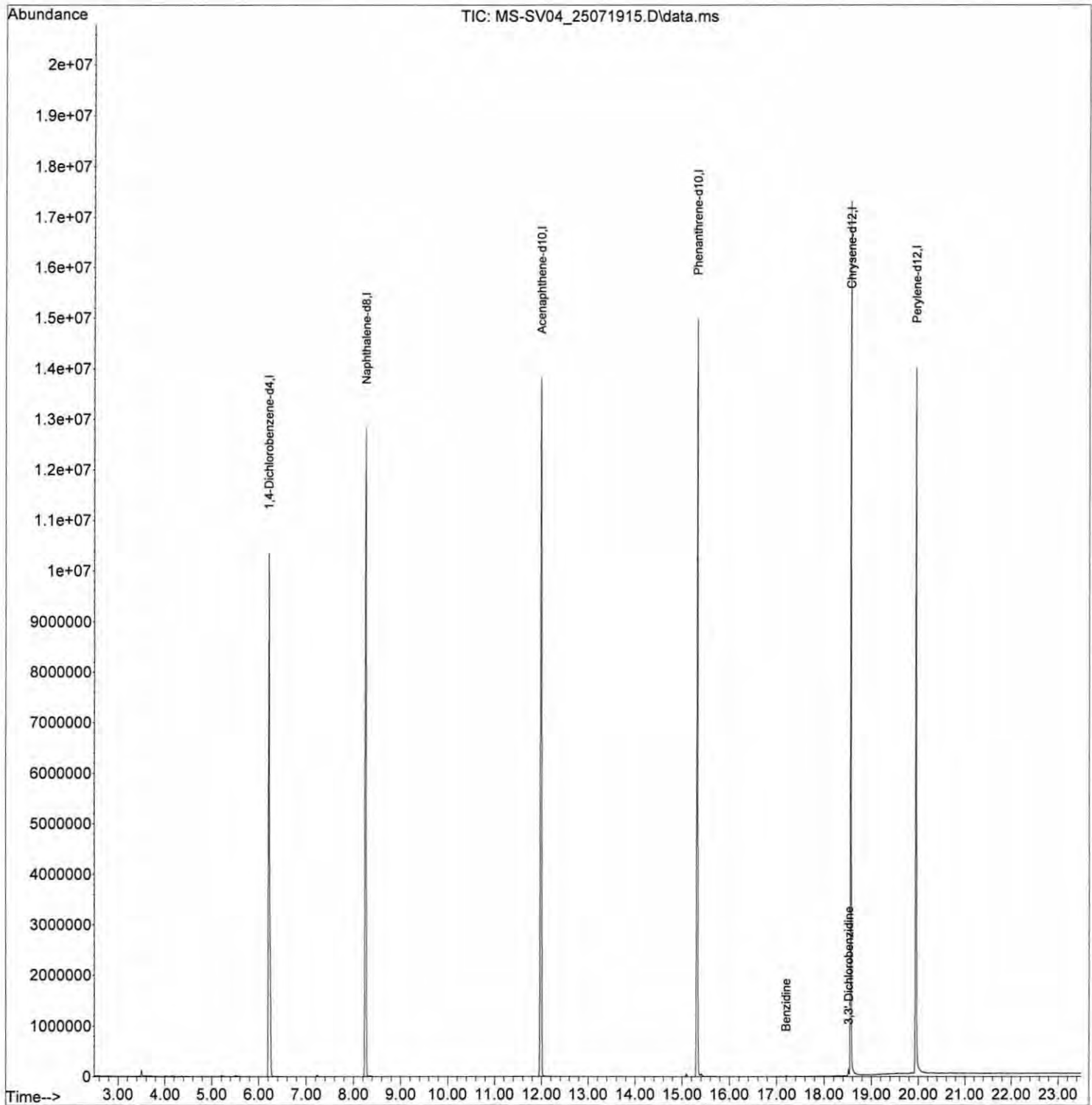
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3370726	40.00	ug/ml	0.00
2) Naphthalene-d8	8.261	136	10057361	40.00	ug/ml #	0.00
3) Acenaphthene-d10	11.986	164	5918892	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	8748283	40.00	ug/ml #	0.00
5) Chrysene-d12	18.555	240	6742064	40.00	ug/ml #	0.00
8) Perylene-d12	19.945	264	6654752	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.198	184	13888	2.90	ug/ml#	97
7) 3,3'-Dichlorobenzidine	18.515	252	40726	2.08	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071915.D
Acq On : 23 Jul 2025 02:40 pm
Operator : BMS
Sample : SEQ-CALH
Misc : BENZ
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 15:23:12 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



Analysis Sequence

SIG1016

321 of 521
Printed: 07/24/2025 2:56 pm



Department: SV-MS
Instrument: MS-SV04
Calibration ID: AG50329

Sequence Date: 07/18/2025

Lab Number	Cont	Sample Name	Order	Source	STD ID	ISTD ID	Client	Comments Log Extraction
SIG1016-TUN1		MS Tune	1	-	5F04329			
SIG1016-CAL1		Cal Standard	2	-	5B04459	5B04321		
SIG1016-CAL2		Cal Standard	3	-	5B04460	5B04321		
SIG1016-CAL3		Cal Standard	4	-	5B04461	5B04321		
SIG1016-CAL4		Cal Standard	5	-	5B04462	5B04321		
SIG1016-CAL5		Cal Standard	6	-	5B04463	5B04321		
SIG1016-CAL6		Cal Standard	7	-	5B04464	5B04321		
SIG1016-CAL7		Cal Standard	8	-	5B04465	5B04321		
SIG1016-CAL8		Cal Standard	9	-	5B04466	5B04321		
SIG1016-ICV1		Initial Cal Check	10	-	5B04450	5B04321		

Method Path : C:\GCMS\1\methods\
 Method File : MS-SV04_250718LP.M
 Title : Semivolatile Primary Quant method (8270 and 625)
 Last Update : Tue Aug 19 16:25:46 2025
 Response Via : Initial Calibration

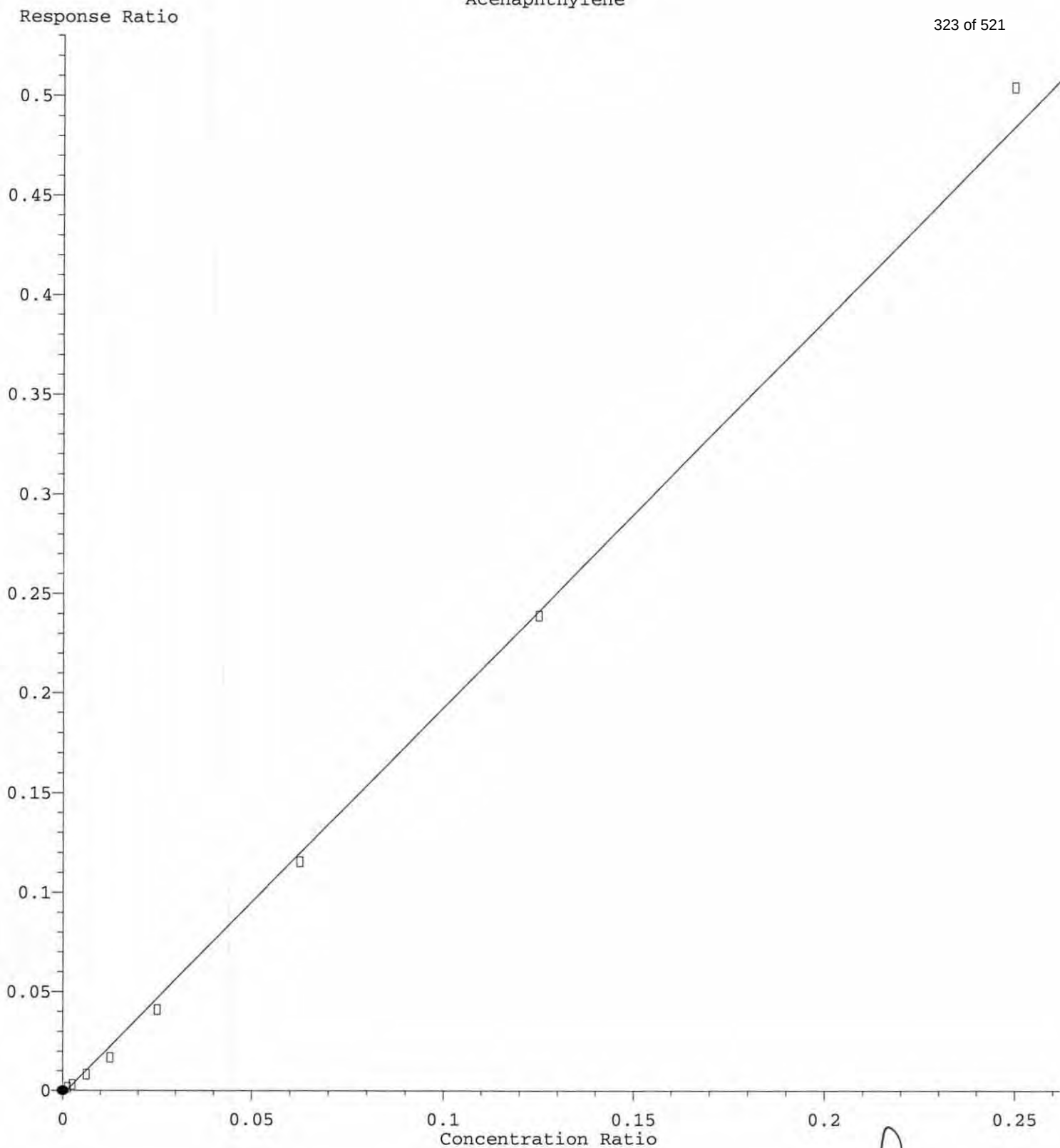
Calibration Files

0.05=MS-SV04_25071847.D 0.1 =MS-SV04_25071848.D 0.25=MS-SV04_25071849.D 0.5 =MS-SV04_25071850.D 1.0 =MS-SV04_25071851.D
 2.5 =MS-SV04_25071852.D
 5.0 =MS-SV04_25081911.D 10 =MS-SV04_25071854.D

Compound	0.05	0.1	0.25	0.5	1.0	2.5	5.0	10	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) I Naphthalene-d8	-----ISTD-----									
3) T Naphthalene	1.450	1.392	1.361	1.292	1.316	1.308	1.236	1.232	1.323	5.67
4) T 2-Methylnaphth...	0.664	0.697	0.764	0.760	0.812	0.835	0.811	0.840	0.773	8.34
5) T 1-Methylnaphth...	0.652	0.674	0.693	0.682	0.731	0.735	0.712	0.722	0.700	4.27
6) I Acenaphthene-d10	-----ISTD-----									
7) T Acenaphthylene	1.170	1.202	1.316	1.346	1.642	1.850	1.916	2.021	1.558	21.92
8) M Acenaphthene	1.203	1.210	1.269	1.248	1.310	1.297	1.258	1.278	1.259	3.04
9) T Fluorene	0.901	0.944	1.029	1.057	1.225	1.303	1.319	1.422	1.150	16.73
10) I Phenanthrene-d10	-----ISTD-----									
11) T Phenanthrene	1.351	1.325	1.333	1.301	1.357	1.324	1.300	1.283	1.322	1.96
12) T Anthracene	0.896	0.918	0.987	1.013	1.143	1.203	1.250	1.265	1.084	13.74
13) T Fluoranthene	0.745	0.738	0.863	0.947	1.163	1.277	1.372	1.378	1.060	25.47
14) I Chrysene-d12	-----ISTD-----									
15) M Pyrene	0.930	1.016	1.212	1.283	1.521	1.668	1.720	1.773	1.390	23.47
16) T Benzo (a) anth...	3.303	1.974	1.368	1.167	1.200	1.202	1.258	1.326	1.600	46.01
17) T Chrysene	1.183	1.526	1.474	1.408	1.487	1.476	1.470	1.492	1.440	7.55
18) I Perylene-d12	-----ISTD-----									
19) T Benzo (b) fluo...	0.537	0.470	0.610	0.579	0.832	0.971	1.095	1.111	0.776	33.49
20) T Benzo (k) fluo...	0.810	0.665	0.733	0.970	1.237	1.296	1.321	1.374	1.051	27.55
21) T Benzo (e) pyrene	0.764	0.616	0.680	0.690	0.919	0.998	1.057	1.110	0.854	22.29
22) T Benzo (a) pyrene		0.341	0.400	0.518	0.736	0.901	0.999	1.086	0.712	41.78
23) T Indeno (1,2,3-...	0.487	0.458	0.550	0.631	0.946	1.011	1.198	1.218	0.812	39.03
24) T Dibenz (a,h) a...	0.367	0.345	0.413	0.487	0.744	0.809	0.948	0.960	0.634	40.98
25) T Benzo (g,h,i) ...		0.455	0.501	0.564	0.760	0.864	1.014	1.094	0.750	33.76

(#) = Out of Range

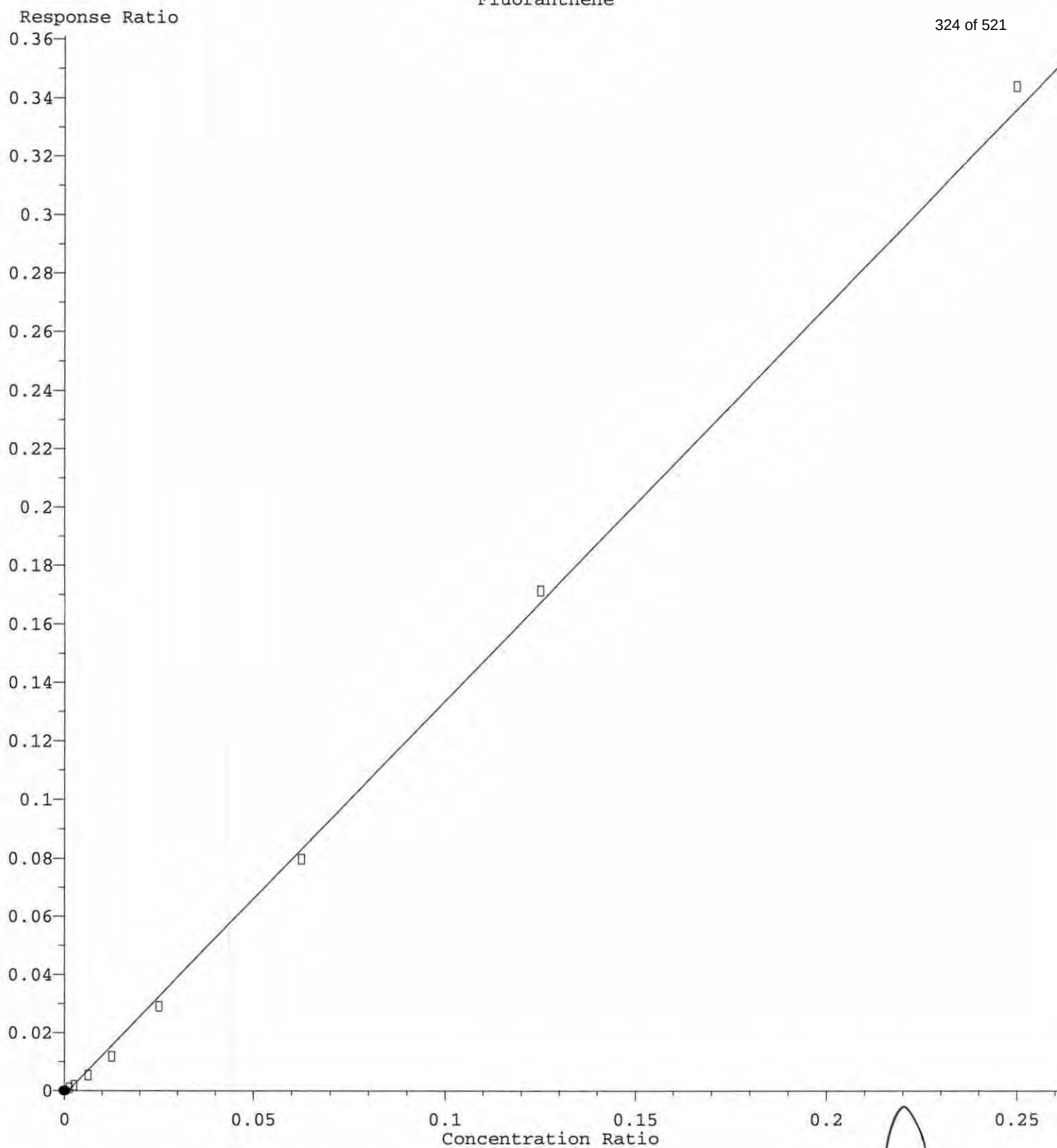


$$\text{Response} = 1.954e+000 * \text{Amt} - 2.103e-003$$

Coef of Det (r^2) = 0.995817 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

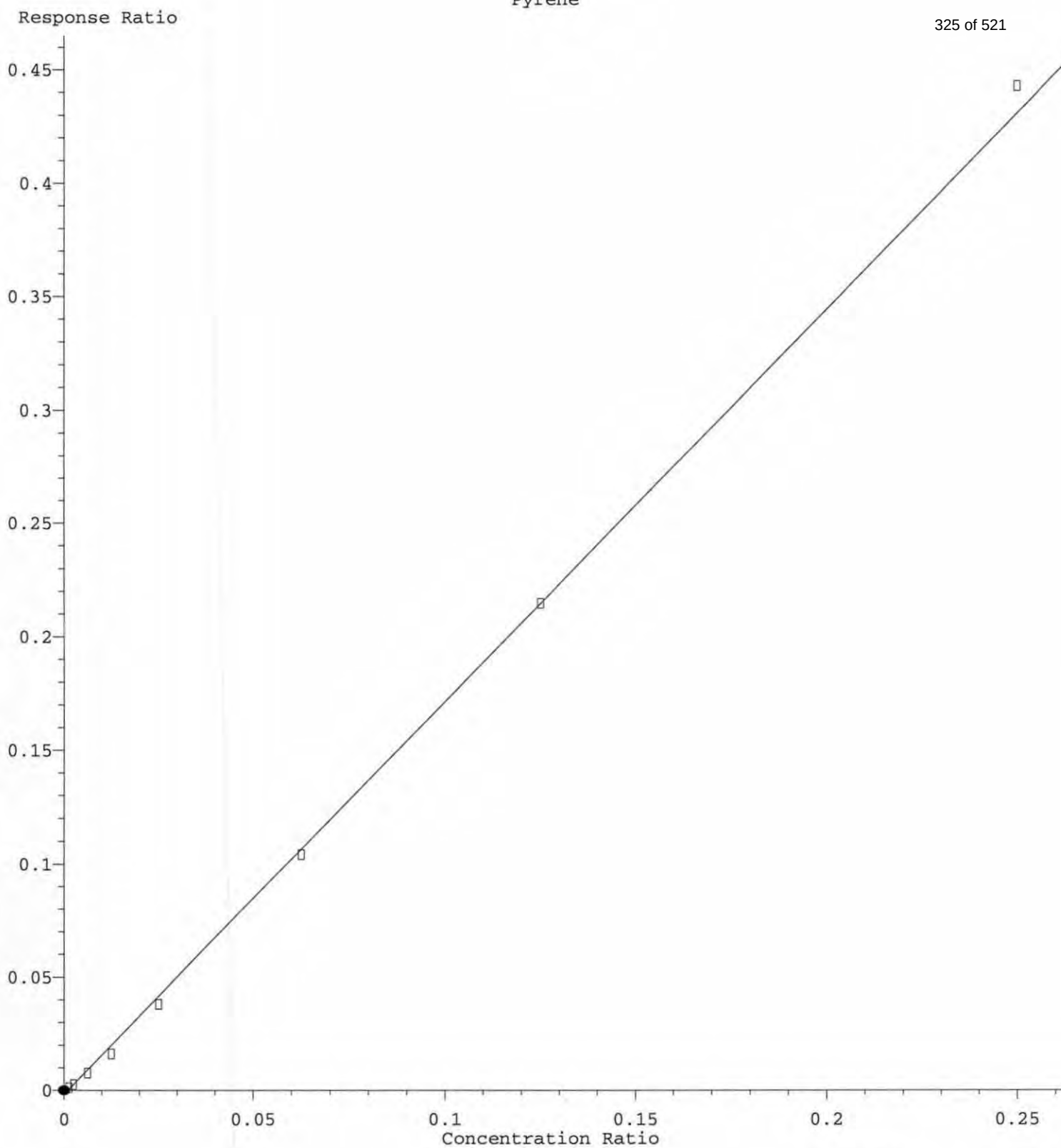


$$\text{Response} = 1.355\text{e}+000 * \text{Amt} - 1.565\text{e}-003$$

Coef of Det (r^2) = 0.996574 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025



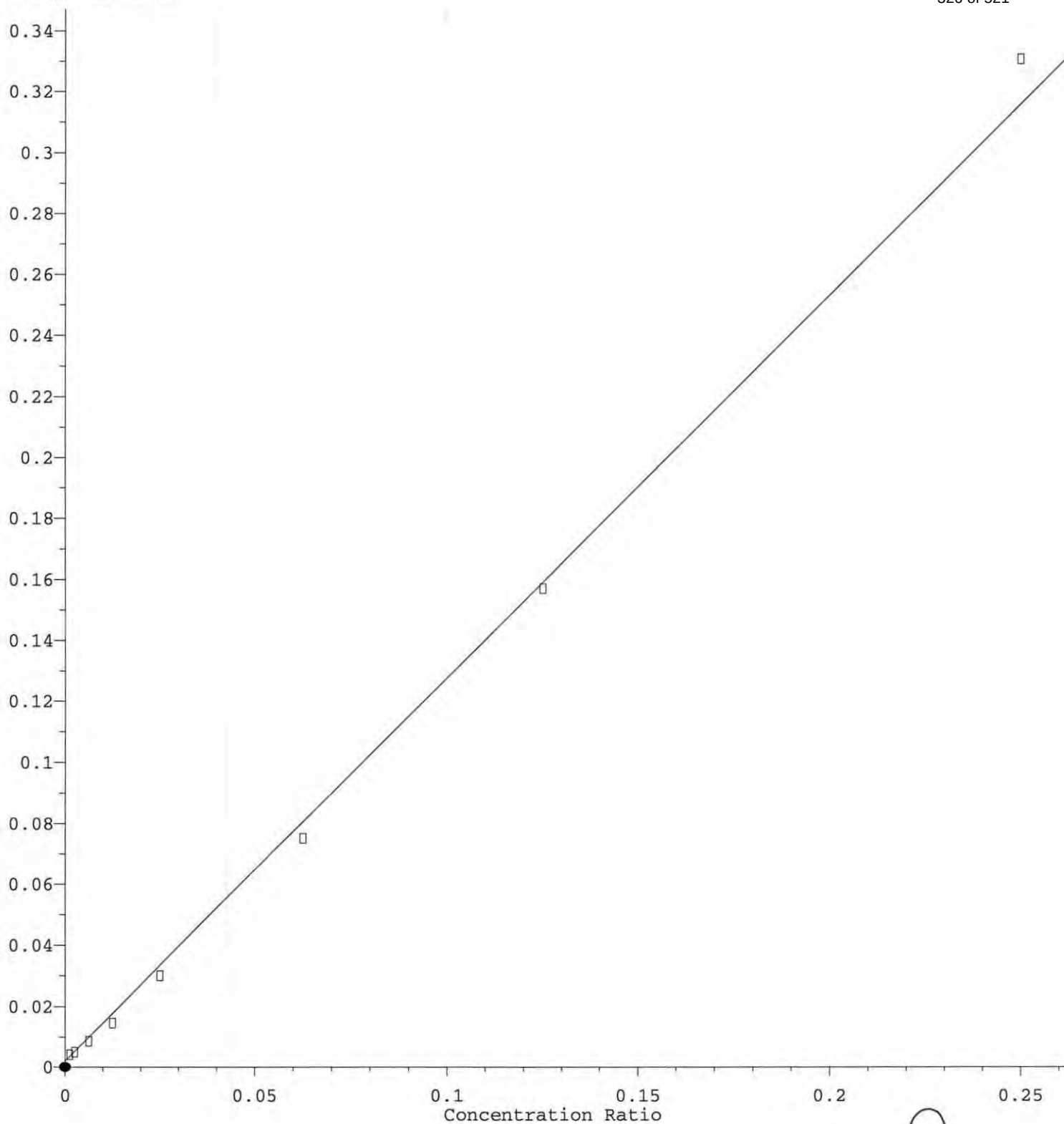
$$\text{Response} = 1.737\text{e}+000 * \text{Amt} - 1.841\text{e}-003$$

Coef of Det (r^2) = 0.997650 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

Response Ratio

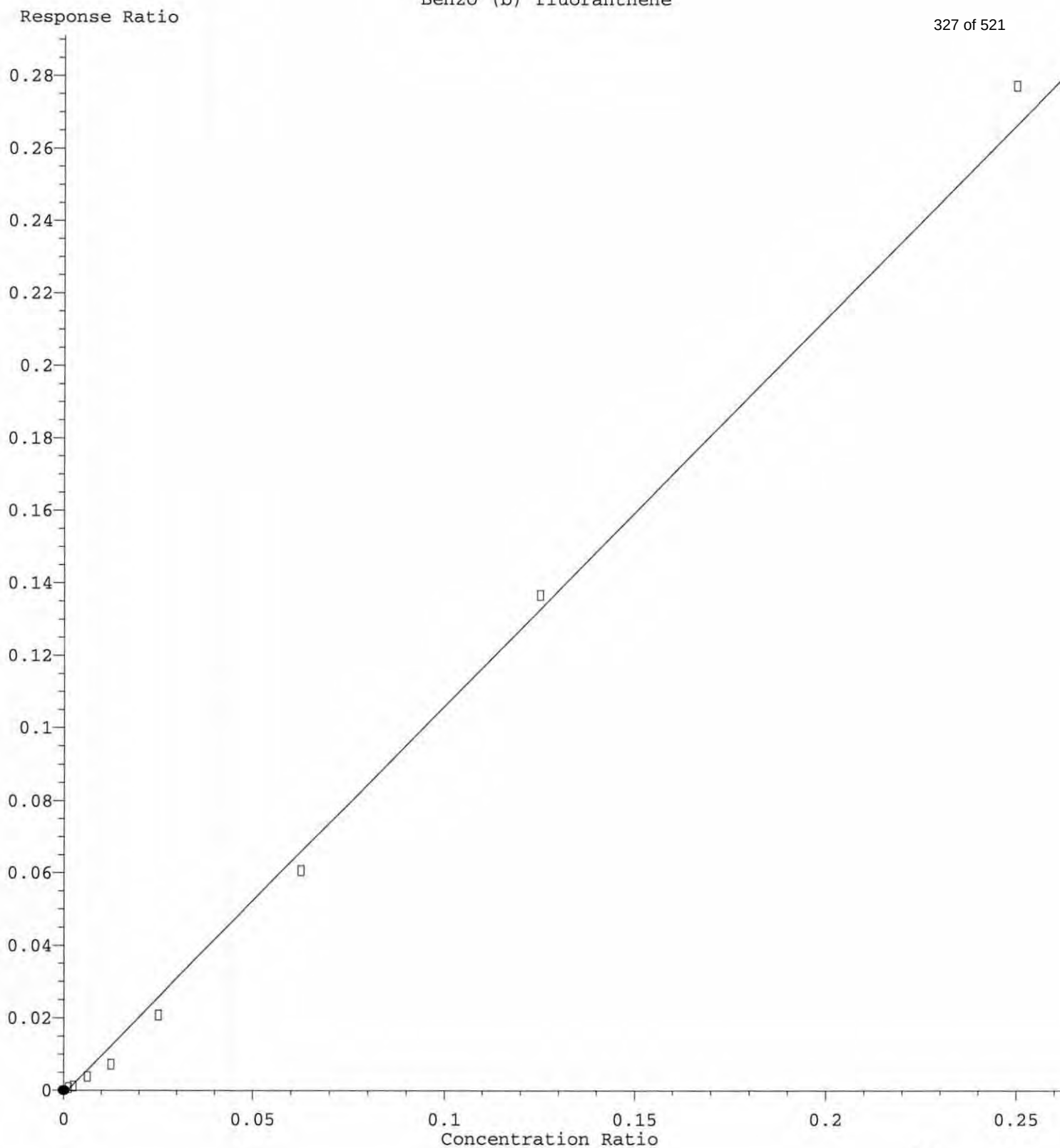


$$\text{Response} = 1.261\text{e}+000 * \text{Amt} + 1.797\text{e}-003$$

Coef of Det (r^2) = 0.995549 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

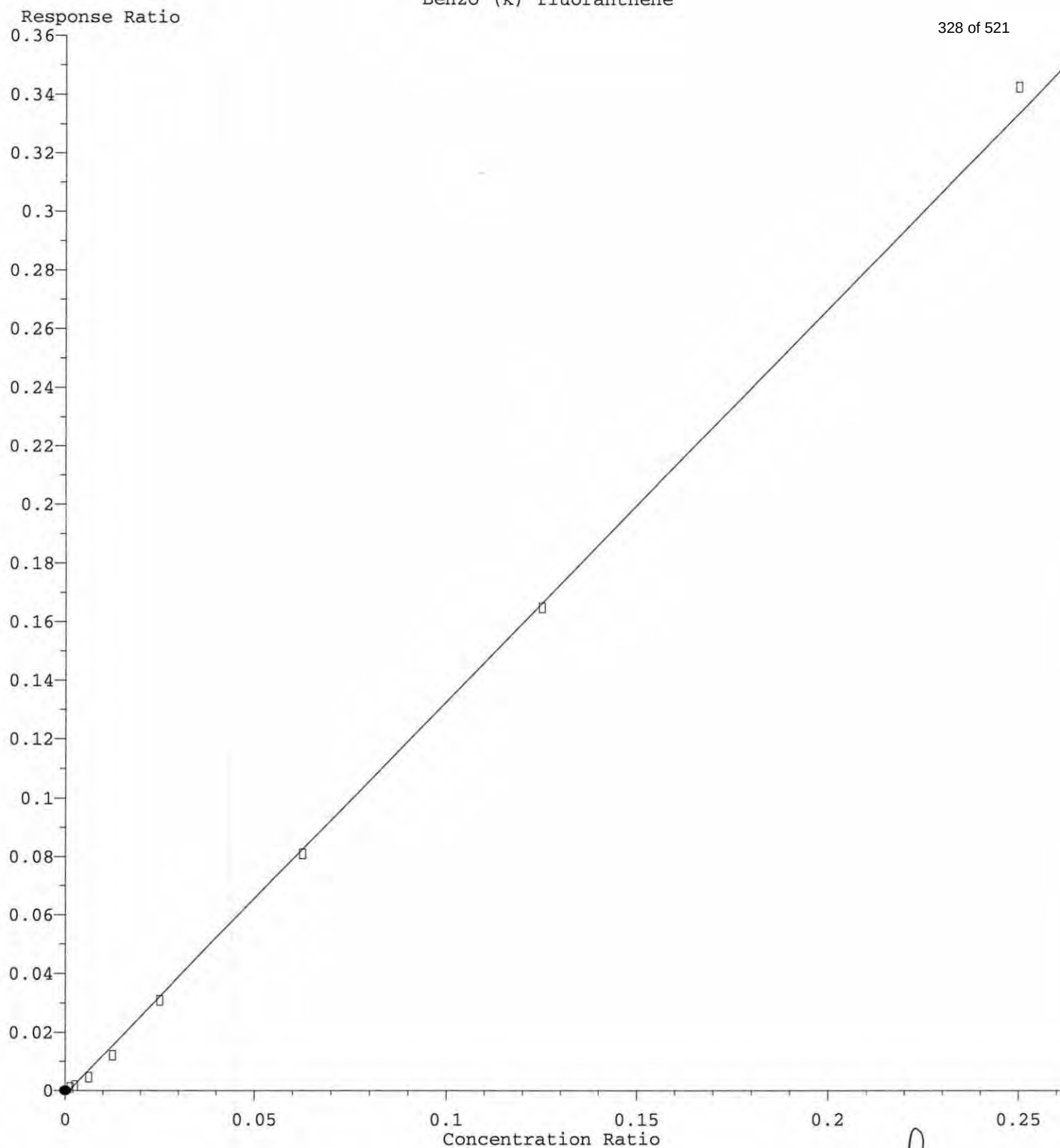


$$\text{Response} = 1.076\text{e}+000 * \text{Amt} - 1.593\text{e}-003$$

Coef of Det (r^2) = 0.991431 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

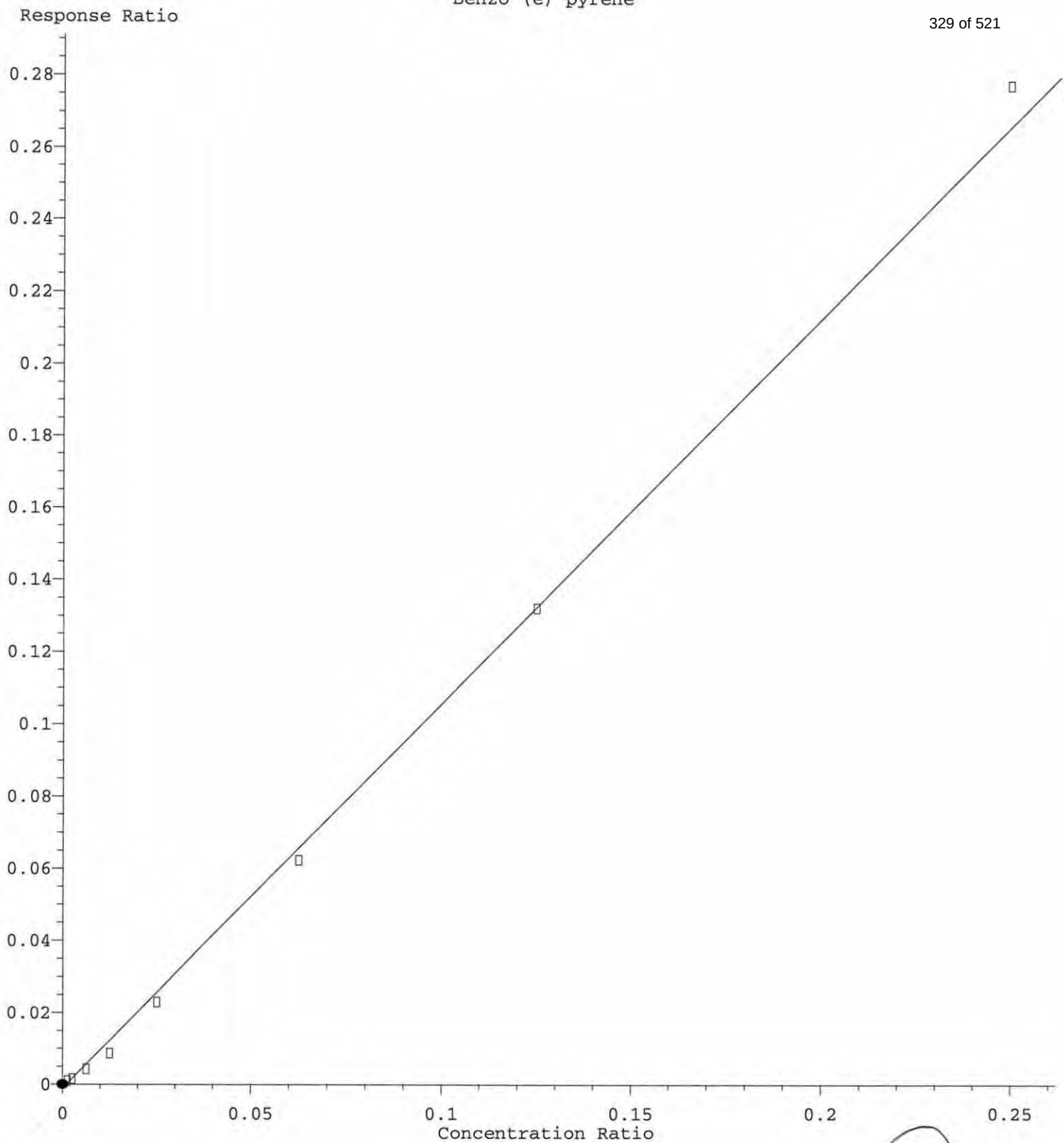


$$\text{Response} = 1.345\text{e}+000 * \text{Amt} - 1.561\text{e}-003$$

Coef of Det (r^2) = 0.996691 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025



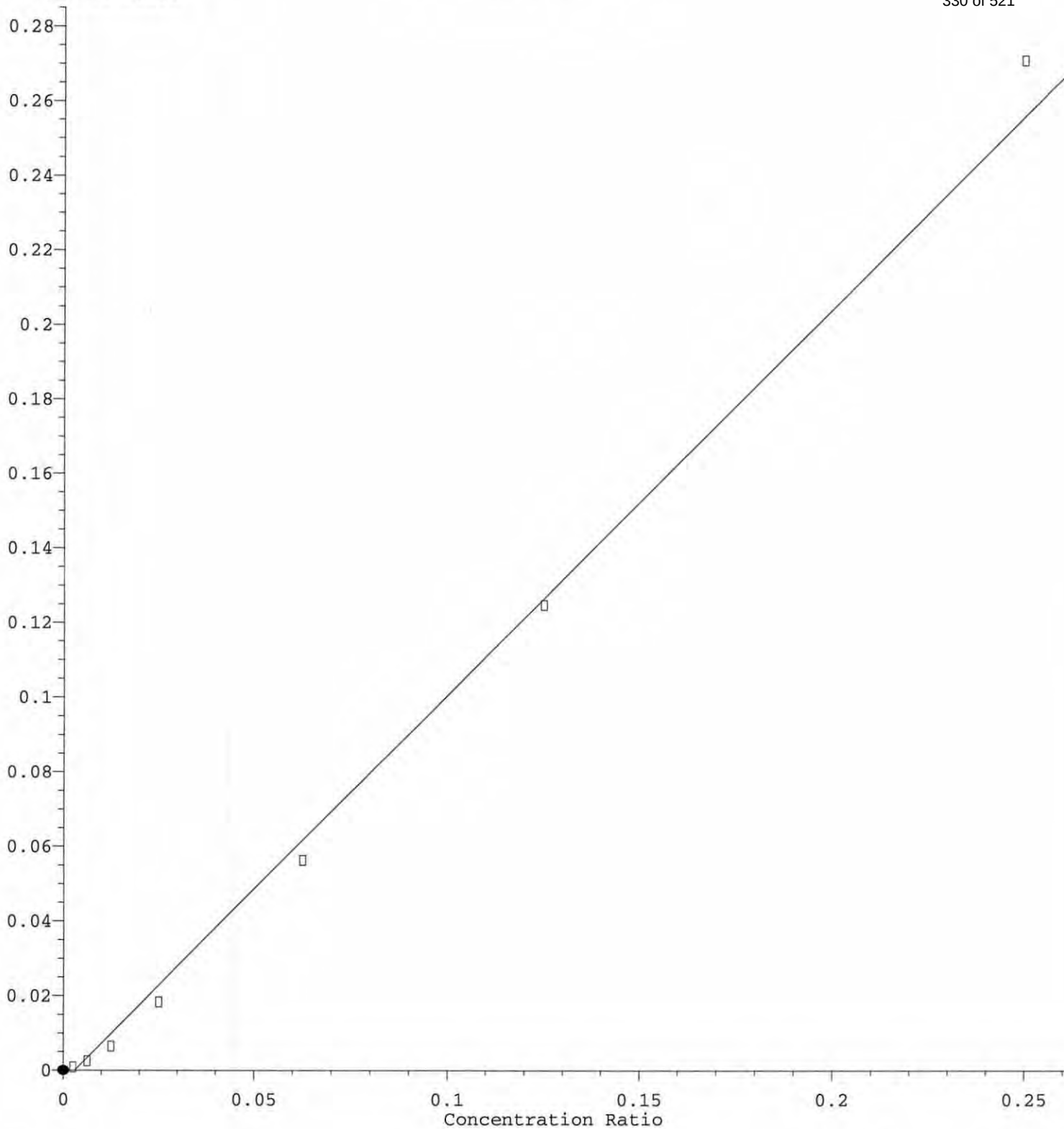
$$\text{Response} = 1.071\text{e}+000 * \text{Amt} - 1.152\text{e}-003$$

Coef of Det (r^2) = 0.994638 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

Response Ratio

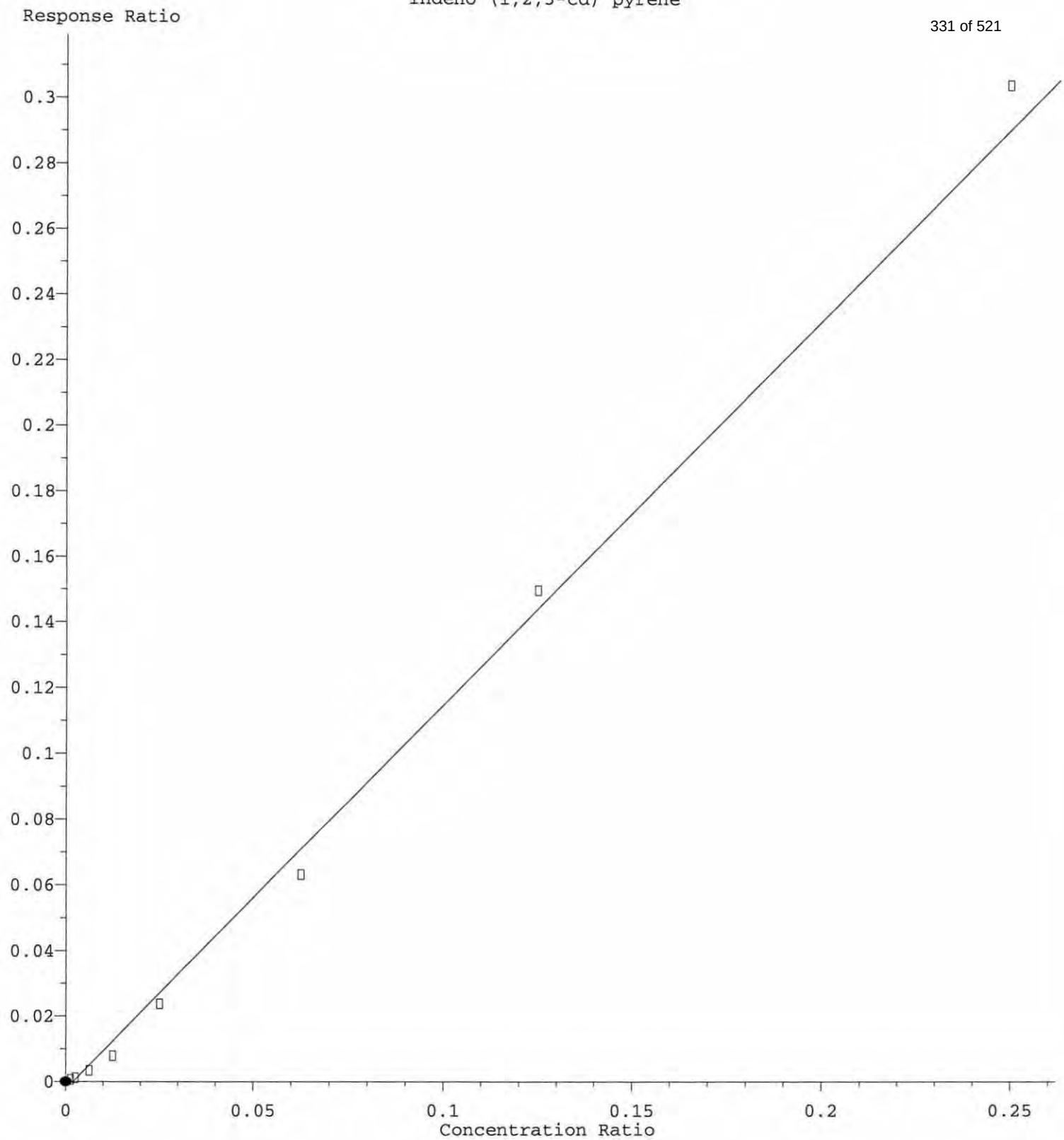


$$\text{Response} = 1.041\text{e}+000 * \text{Amt} - 3.259\text{e}-003$$

Coef of Det (r²) = 0.991222 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

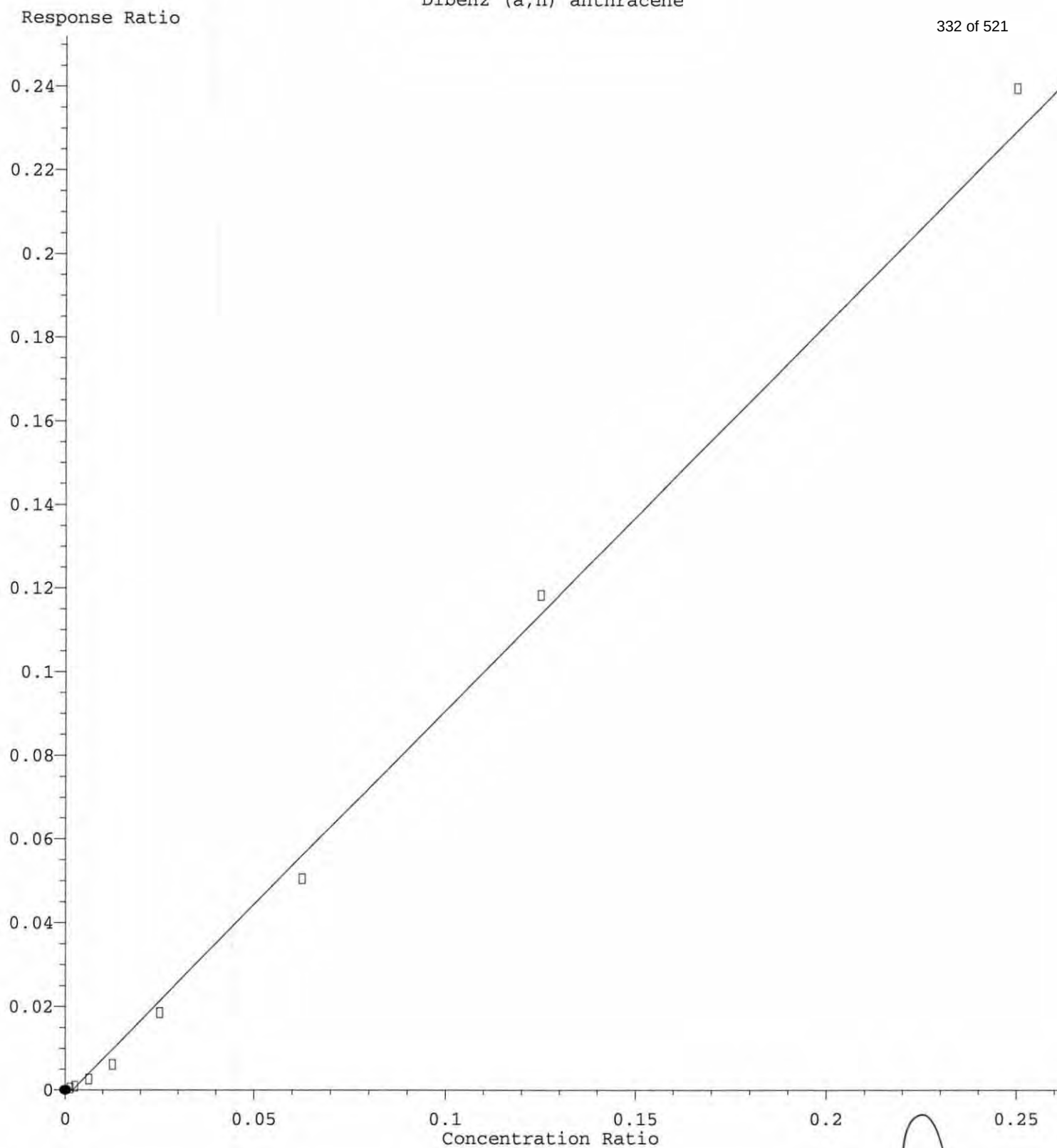


$$\text{Response} = 1.174\text{e}+000 * \text{Amt} - 1.919\text{e}-003$$

Coef of Det (r^2) = 0.990346 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

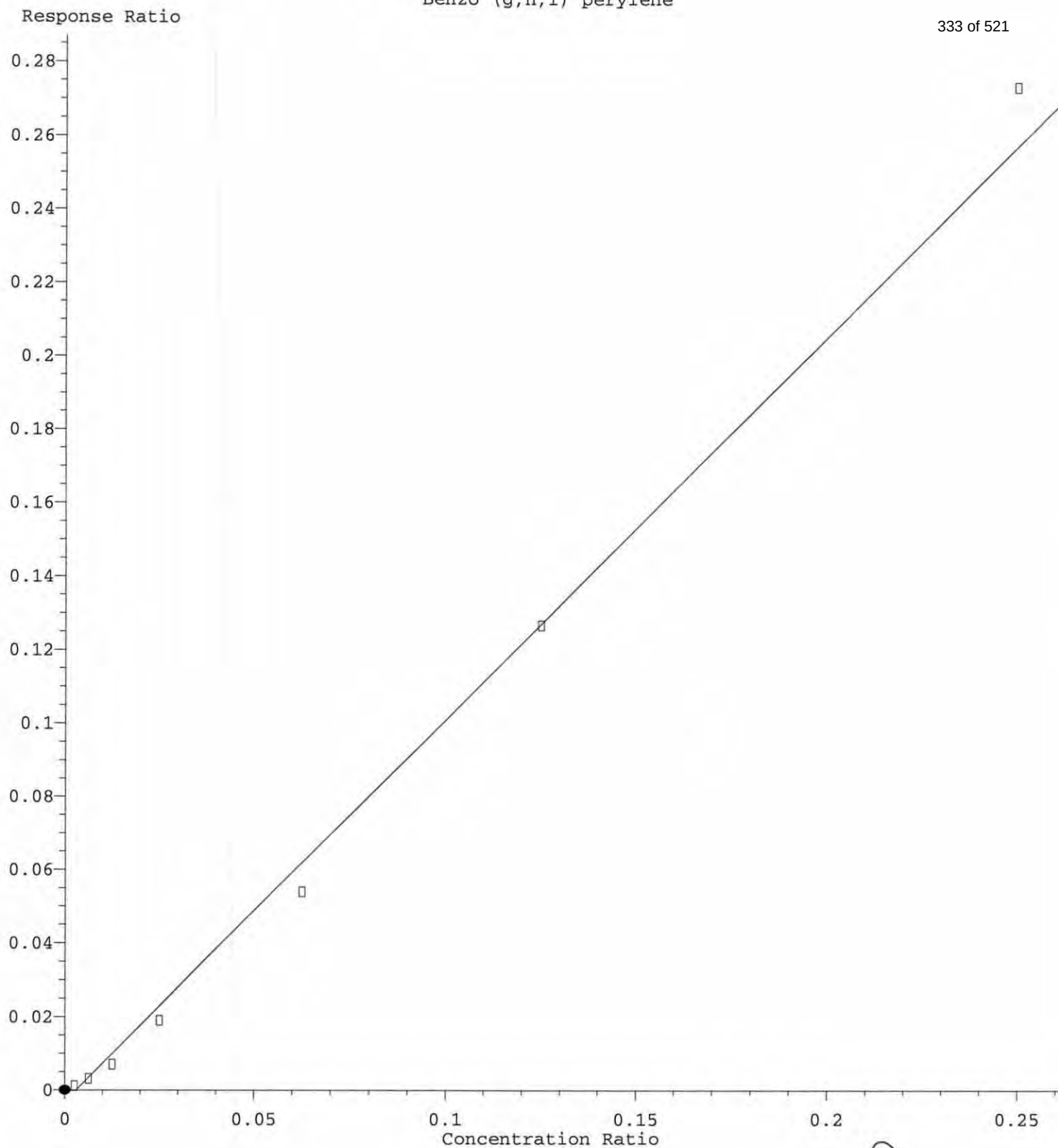


$$\text{Response} = 9.283\text{e-}001 * \text{Amt} - 1.560\text{e-}003$$

Coef of Det (r^2) = 0.990352 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025



$$\text{Response} = 1.044\text{e}+000 * \text{Amt} - 2.901\text{e}-003$$

Coef of Det (r^2) = 0.990370 Curve Fit: wlr(1/a)

Method Name: C:\GCMS\1\methods\MS-SV04_250718LP.M

Calibration Table Last Updated: Tue Aug 19 16:25:46 2025

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071847.D
 Acq On : 19 Jul 2025 12:11 pm
 Operator : BMS
 Sample : SEQ-CAL1
 Misc : LLPAH
 ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 23 15:37:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

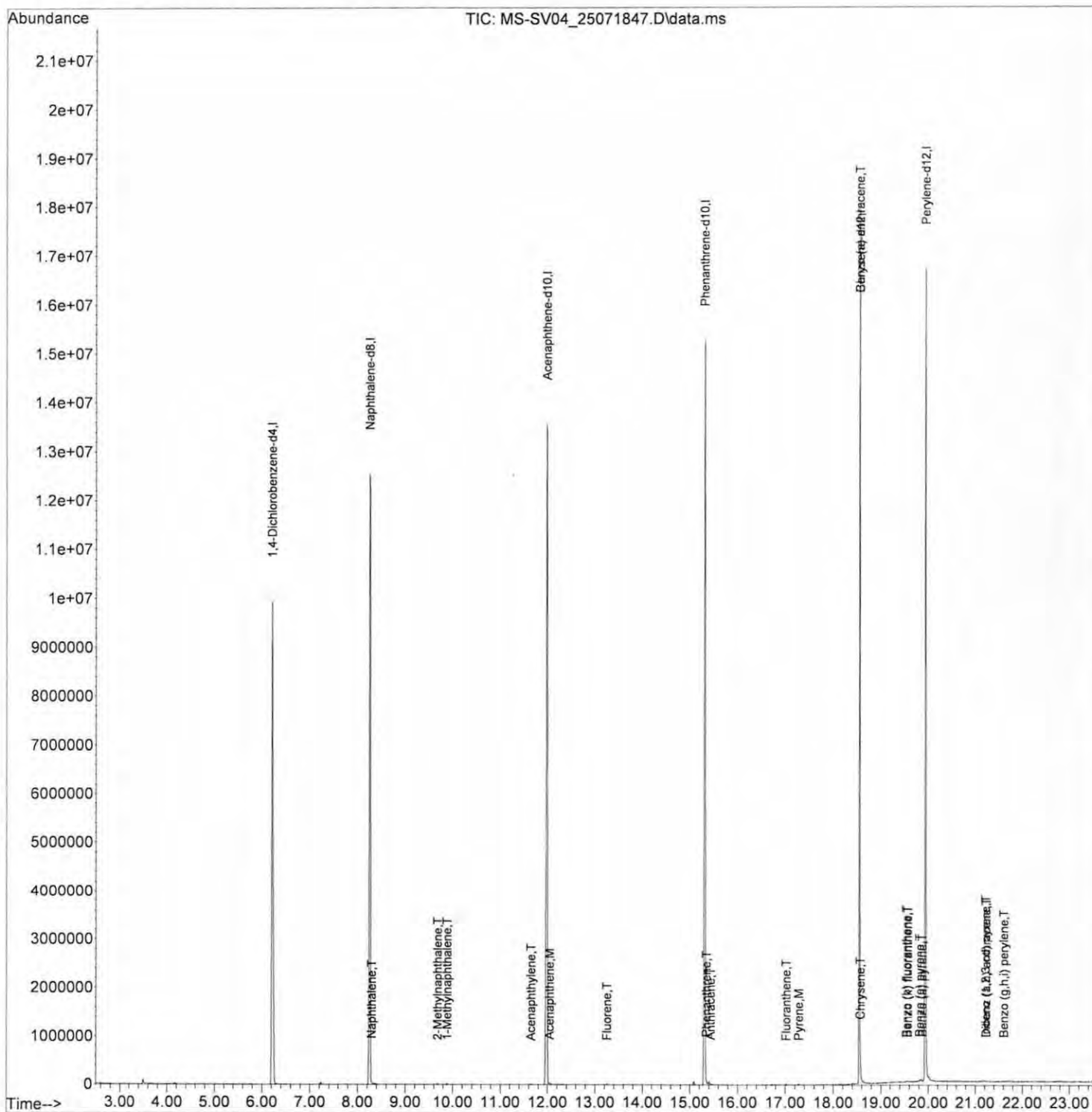
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3251980	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9842265	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.980	164	5830805	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	8788499	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.555	240	7192466	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	8271010	40.00	ug/ml	0.00

Target Compounds						Qvalue
3) Naphthalene	8.295	128	17840	0.05	ug/ml	98
4) 2-Methylnaphthalene	9.680	142	8175	0.04	ug/ml	87
5) 1-Methylnaphthalene	9.880	142	8018	0.05	ug/ml	96
7) Acenaphthylene	11.648	152	8530	0.07	ug/ml	95
8) Acenaphthene	12.049	154	8765	0.05	ug/ml	95
9) Fluorene	13.256	166	6569	0.04	ug/ml	95
11) Phenanthrene	15.350	178	14839	0.05	ug/ml	98
12) Anthracene	15.436	178	9846	0.04	ug/ml	99
13) Fluoranthene	17.021	202	8186	0.07	ug/ml	96
15) Pyrene	17.284	202	8359	0.07	ug/ml	99
16) Benzo (a) anthracene	18.549	228	29696	0.07	ug/ml#	79
17) Chrysene	18.572	228	10637	0.04	ug/ml#	81
19) Benzo (b) fluoranthene	19.539	252	5548	0.09	ug/ml#	88
20) Benzo (k) fluoranthene	19.567	252	8378	0.07	ug/ml#	95
21) Benzo (e) pyrene	19.819	252	7903	0.04	ug/ml#	84
22) Benzo (a) pyrene	19.876	252	4949	0.09	ug/ml#	79
23) Indeno (1,2,3-cd) pyrene	21.227	276	5035	0.09	ug/ml#	67
24) Dibenz (a,h) anthracene	21.232	278	3798	0.09	ug/ml#	84
25) Benzo (g,h,i) perylene	21.610	276	4622	0.09	ug/ml#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071847.D
Acq On : 19 Jul 2025 12:11 pm
Operator : BMS
Sample : SEQ-CAL1
Misc : LLPAH
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 23 15:37:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071848.D
 Acq On : 19 Jul 2025 12:40 pm
 Operator : BMS
 Sample : SEQ-CAL2
 Misc : LLPAH
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jul 23 15:37:56 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3308758	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9930076	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.986	164	6018913	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	9006876	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.555	240	7190694	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	8185423	40.00	ug/ml	0.00

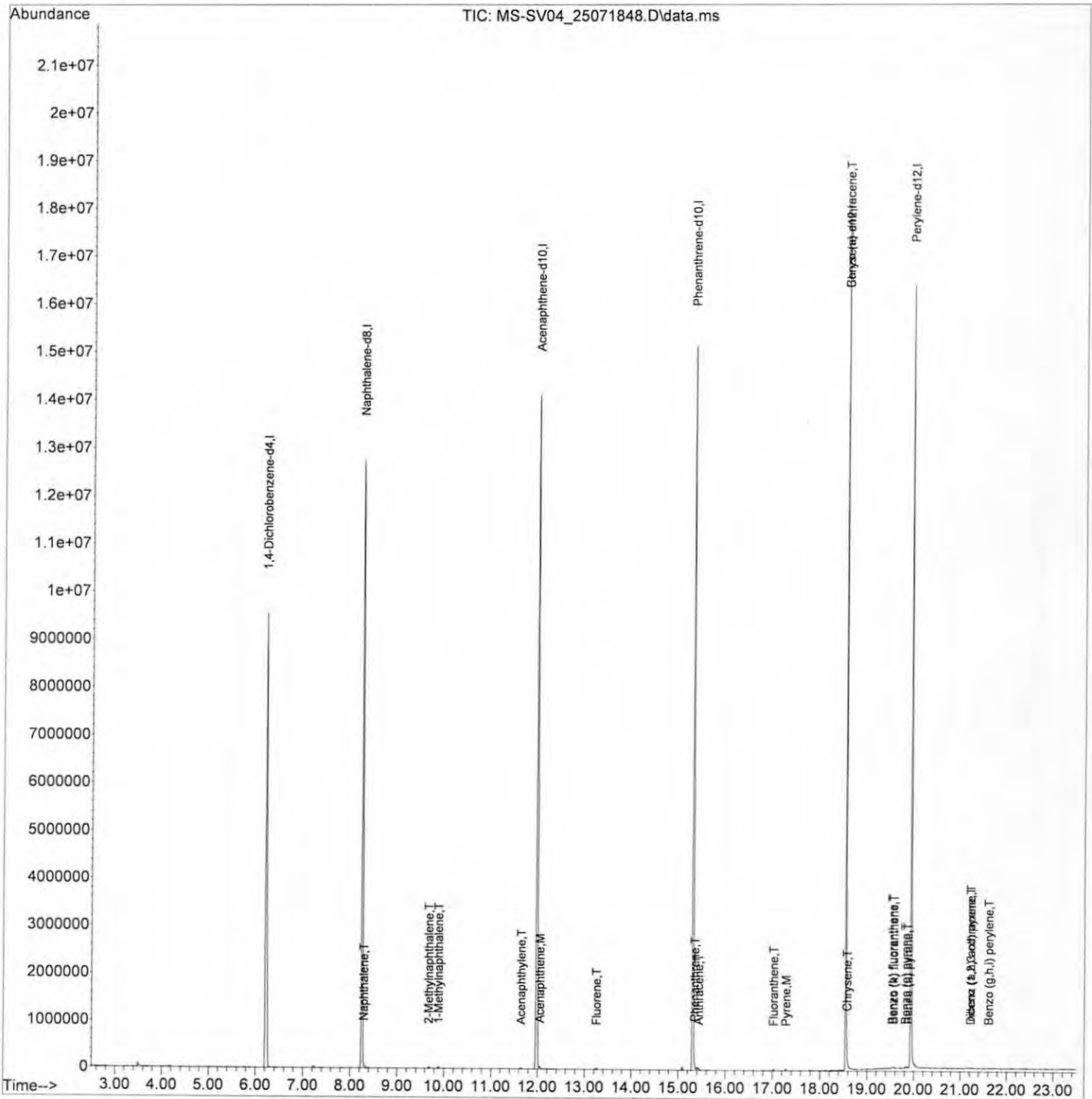
Target Compounds						Qvalue
3) Naphthalene	8.289	128	34554	0.11	ug/ml	98
4) 2-Methylnaphthalene	9.674	142	17293	0.09	ug/ml	93
5) 1-Methylnaphthalene	9.880	142	16726	0.10	ug/ml	95
7) Acenaphthylene	11.642	152	18084	0.10	ug/ml	96
8) Acenaphthene	12.049	154	18201	0.10	ug/ml	98
9) Fluorene	13.256	166	14207	0.08	ug/ml	98
11) Phenanthrene	15.350	178	29843	0.10	ug/ml	99
12) Anthracene	15.436	178	20672	0.08	ug/ml	99
13) Fluoranthene	17.021	202	16613	0.10	ug/ml	97
15) Pyrene	17.284	202	18264	0.10	ug/ml	96
16) Benzo (a) anthracene	18.549	228	35490	0.10	ug/ml#	83
17) Chrysene	18.578	228	27431	0.11	ug/ml	98
19) Benzo (b) fluoranthene	19.539	252	9622	0.11	ug/ml	96
20) Benzo (k) fluoranthene	19.567	252	13607	0.09	ug/ml#	96
21) Benzo (e) pyrene	19.819	252	12598	0.07	ug/ml#	90
22) Benzo (a) pyrene	19.876	252	6988	0.10	ug/ml#	78
23) Indeno (1,2,3-cd) pyrene	21.227	276	9370	0.11	ug/ml#	77
24) Dibenz (a,h) anthracene	21.227	278	7058	0.11	ug/ml#	90
25) Benzo (g,h,i) perylene	21.610	276	9317	0.11	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071848.D
Acq On : 19 Jul 2025 12:40 pm
Operator : BMS
Sample : SEQ-CAL2
Misc : LLPAH
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jul 23 15:37:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071849.D
 Acq On : 19 Jul 2025 01:08 pm
 Operator : BMS
 Sample : SEQ-CAL3
 Misc : LLPAH
 ALS Vial : 41 Sample Multiplier: 1

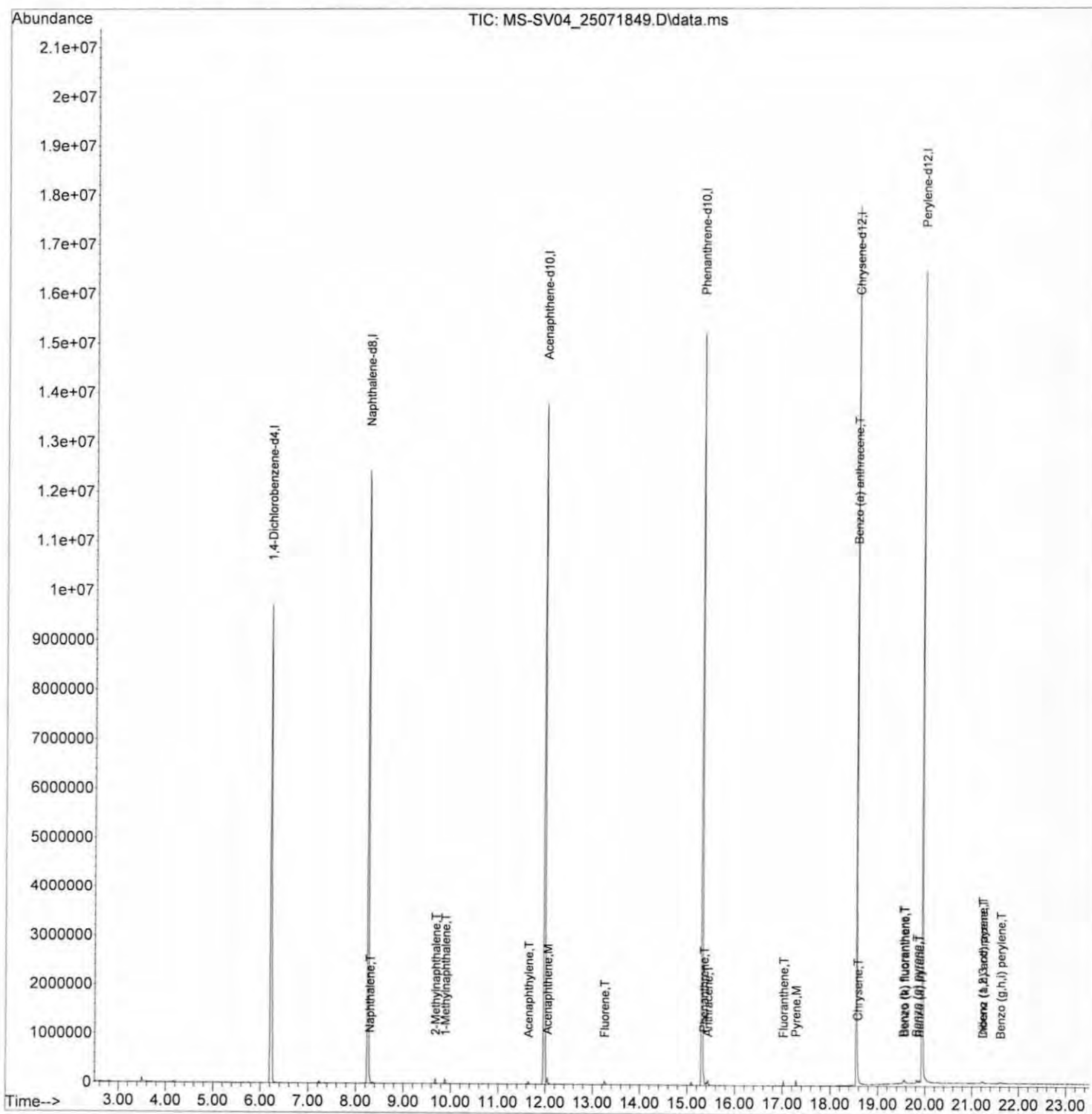
Quant Time: Jul 23 15:37:58 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3236250	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9768098	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.986	164	5766074	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	8659859	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.549	240	6908613	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	7842318	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.295	128	83085	0.26	ug/ml	98
4) 2-Methylnaphthalene	9.680	142	46669	0.25	ug/ml	99
5) 1-Methylnaphthalene	9.886	142	42318	0.25	ug/ml	91
7) Acenaphthylene	11.642	152	47414	0.21	ug/ml	99
8) Acenaphthene	12.049	154	45721	0.25	ug/ml	97
9) Fluorene	13.256	166	37081	0.22	ug/ml	99
11) Phenanthrene	15.350	178	72123	0.25	ug/ml	99
12) Anthracene	15.436	178	53395	0.23	ug/ml	99
13) Fluoranthene	17.021	202	46698	0.21	ug/ml	99
15) Pyrene	17.284	202	52335	0.22	ug/ml	97
16) Benzo (a) anthracene	18.543	228	59057	0.21	ug/ml#	92
17) Chrysene	18.577	228	63656	0.26	ug/ml	100
19) Benzo (b) fluoranthene	19.539	252	29907	0.20	ug/ml	92
20) Benzo (k) fluoranthene	19.567	252	35911	0.18	ug/ml#	88
21) Benzo (e) pyrene	19.819	252	33329	0.20	ug/ml#	95
22) Benzo (a) pyrene	19.876	252	19629	0.17	ug/ml#	86
23) Indeno (1,2,3-cd) pyrene	21.227	276	26935	0.18	ug/ml#	79
24) Dibenzo (a,h) anthracene	21.233	278	20242	0.18	ug/ml#	95
25) Benzo (g,h,i) perylene	21.610	276	24539	0.19	ug/ml#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071849.D
Acq On : 19 Jul 2025 01:08 pm
Operator : BMS
Sample : SEQ-CAL3
Misc : LLPAH
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Jul 23 15:37:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071850.D
 Acq On : 19 Jul 2025 01:37 pm
 Operator : BMS
 Sample : SEQ-CAL4
 Misc : LLPAH
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 23 15:38:00 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

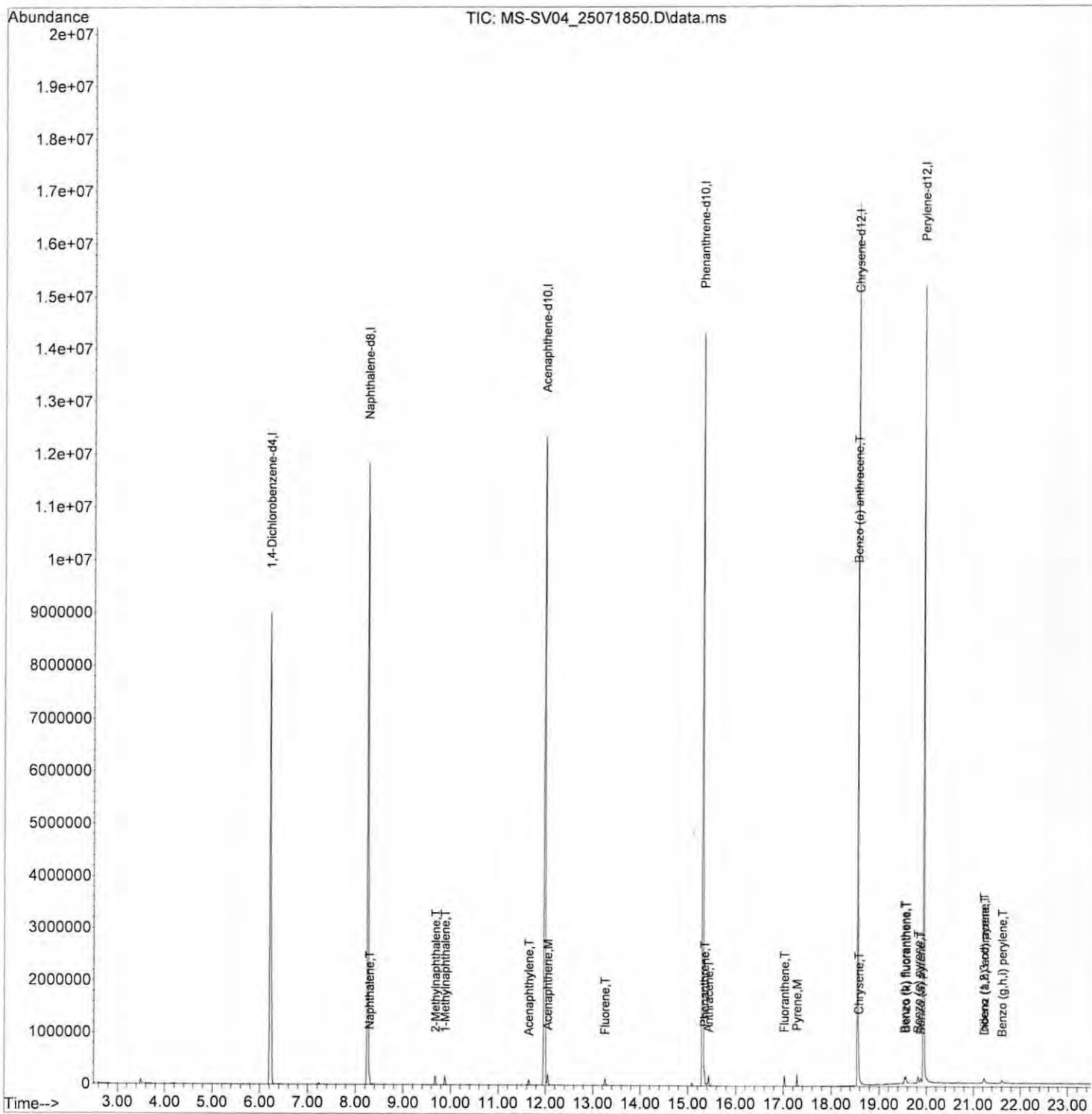
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	2944167	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	8984849	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.980	164	5335542	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	7986772	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.549	240	6395973	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	7275150	40.00	ug/ml	0.00
Target Compounds				Qvalue		
3) Naphthalene	8.295	128	145079	0.49	ug/ml	99
4) 2-Methylnaphthalene	9.680	142	85358	0.49	ug/ml	97
5) 1-Methylnaphthalene	9.880	142	76561	0.49	ug/ml	92
7) Acenaphthylene	11.642	152	89760	0.39	ug/ml	99
8) Acenaphthene	12.049	154	83225	0.50	ug/ml	96
9) Fluorene	13.256	166	70487	0.46	ug/ml	97
11) Phenanthrene	15.350	178	129868	0.49	ug/ml	100
12) Anthracene	15.436	178	101126	0.47	ug/ml	99
13) Fluoranthene	17.021	202	94547	0.40	ug/ml	98
15) Pyrene	17.284	202	102560	0.41	ug/ml	98
16) Benzo (a) anthracene	18.543	228	93319	0.41	ug/ml	94
17) Chrysene	18.578	228	112603	0.49	ug/ml	100
19) Benzo (b) fluoranthene	19.539	252	52670	0.31	ug/ml	99
20) Benzo (k) fluoranthene	19.567	252	88205	0.42	ug/ml#	94
21) Benzo (e) pyrene	19.819	252	62770	0.40	ug/ml#	94
22) Benzo (a) pyrene	19.876	252	47121	0.32	ug/ml#	94
23) Indeno (1,2,3-cd) pyrene	21.227	276	57416	0.33	ug/ml#	85
24) Dibenz (a,h) anthracene	21.233	278	44303	0.32	ug/ml#	94
25) Benzo (g,h,i) perylene	21.610	276	51263	0.34	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071850.D
Acq On : 19 Jul 2025 01:37 pm
Operator : BMS
Sample : SEQ-CAL4
Misc : LLPAH
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 23 15:38:00 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071851.D
 Acq On : 19 Jul 2025 02:05 pm
 Operator : BMS
 Sample : SEQ-CAL5
 Misc : LLPAH
 ALS Vial : 43 Sample Multiplier: 1

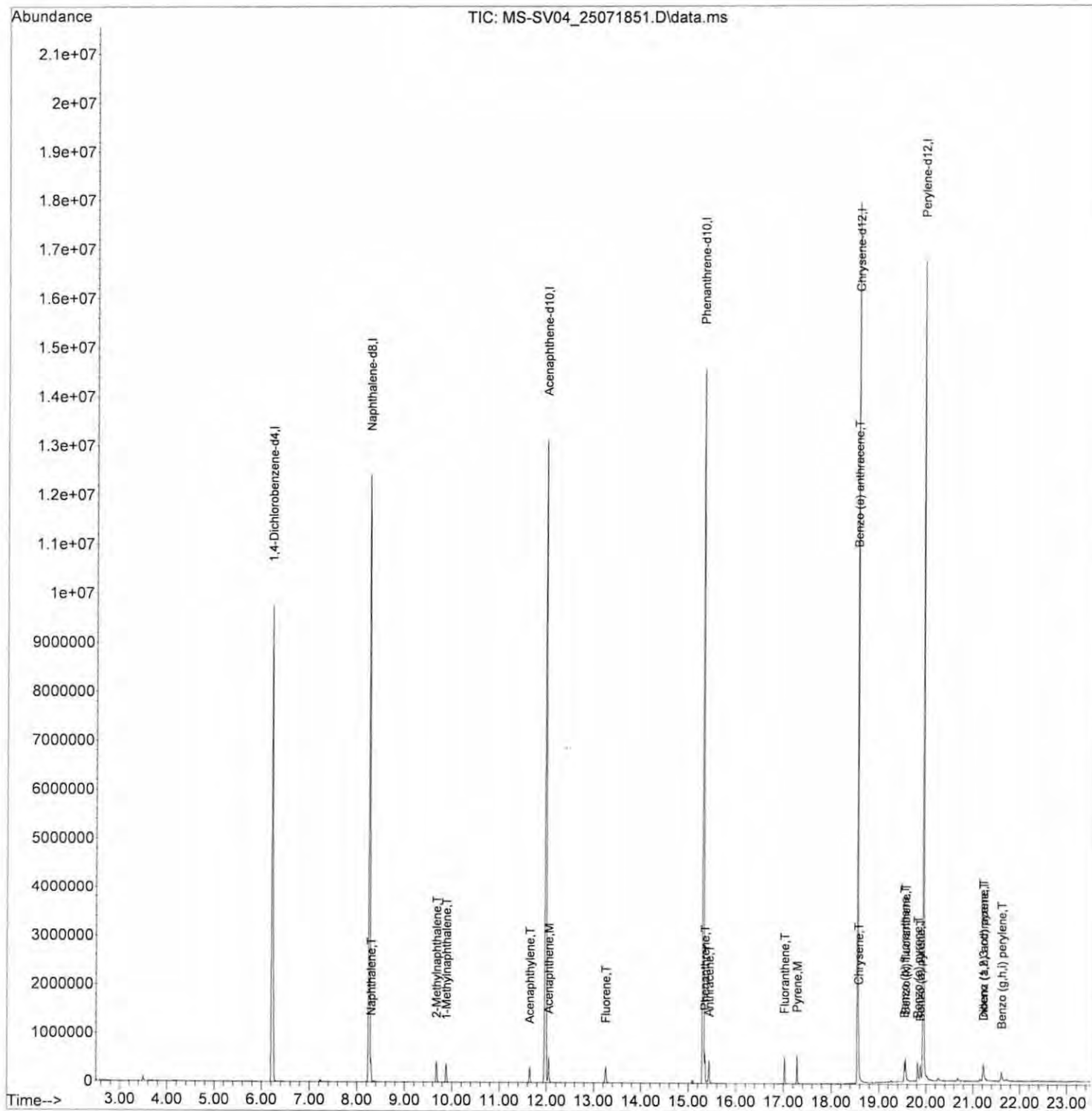
Quant Time: Jul 23 15:38:02 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3187900	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9648065	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.986	164	5680394	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	8567603	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.555	240	7037118	40.00	ug/ml	# 0.00
18) Perylene-d12	19.940	264	8252982	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.295	128	317435	0.99	ug/ml	99
4) 2-Methylnaphthalene	9.674	142	195899	1.05	ug/ml	96
5) 1-Methylnaphthalene	9.880	142	176435	1.04	ug/ml	93
7) Acenaphthylene	11.643	152	233235	0.88	ug/ml	99
8) Acenaphthene	12.049	154	186067	1.04	ug/ml	97
9) Fluorene	13.256	166	173970	1.07	ug/ml	98
11) Phenanthrene	15.350	178	290727	1.03	ug/ml	98
12) Anthracene	15.436	178	244821	1.05	ug/ml	99
13) Fluoranthene	17.021	202	249038	0.90	ug/ml	99
15) Pyrene	17.285	202	267579	0.92	ug/ml	98
16) Benzo (a) anthracene	18.543	228	211137	0.89	ug/ml	97
17) Chrysene	18.572	228	261538	1.03	ug/ml	99
19) Benzo (b) fluoranthene	19.539	252	171645	0.77	ug/ml	99
20) Benzo (k) fluoranthene	19.562	252	255278	1.02	ug/ml#	96
21) Benzo (e) pyrene	19.819	252	189525	1.08	ug/ml#	97
22) Benzo (a) pyrene	19.877	252	151773	0.79	ug/ml#	94
23) Indeno (1,2,3-cd) pyrene	21.221	276	195269	0.84	ug/ml#	88
24) Dibenzo (a,h) anthracene	21.227	278	153415	0.83	ug/ml#	94
25) Benzo (g,h,i) perylene	21.610	276	156856	0.80	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071851.D
Acq On : 19 Jul 2025 02:05 pm
Operator : BMS
Sample : SEQ-CAL5
Misc : LLPAH
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Jul 23 15:38:02 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071852.D
 Acq On : 19 Jul 2025 02:34 pm
 Operator : BMS
 Sample : SEQ-CAL6
 Misc : LLPAH
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Jul 23 15:38:04 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

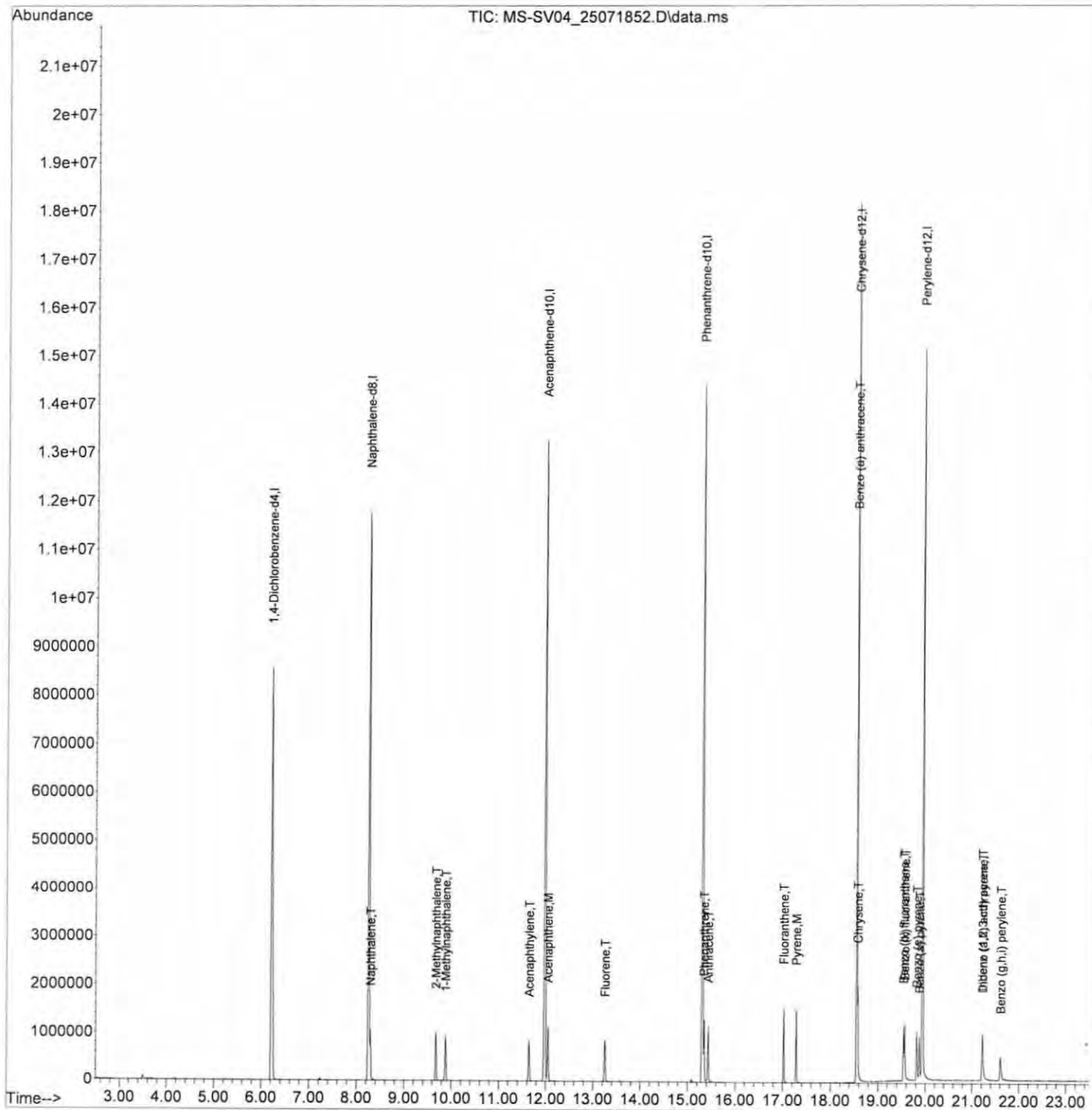
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3058302	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9279816	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.980	164	5441297	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	8171829	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.549	240	6677812	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	7736555	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.295	128	758503	2.47	ug/ml	98
4) 2-Methylnaphthalene	9.674	142	484293	2.70	ug/ml	96
5) 1-Methylnaphthalene	9.880	142	426423	2.63	ug/ml	91
7) Acenaphthylene	11.643	152	629148	2.41	ug/ml	99
8) Acenaphthene	12.049	154	440971	2.57	ug/ml	97
9) Fluorene	13.256	166	443152	2.83	ug/ml	98
11) Phenanthrene	15.345	178	676244	2.50	ug/ml	99
12) Anthracene	15.436	178	614427	2.77	ug/ml	99
13) Fluoranthene	17.021	202	652148	2.40	ug/ml	97
15) Pyrene	17.284	202	696118	2.44	ug/ml	98
16) Benzo (a) anthracene	18.543	228	501818	2.33	ug/ml	99
17) Chrysene	18.572	228	615957	2.56	ug/ml	98
19) Benzo (b) fluoranthene	19.539	252	469570	2.10	ug/ml	99
20) Benzo (k) fluoranthene	19.562	252	626814	2.61	ug/ml#	97
21) Benzo (e) pyrene	19.819	252	482337	2.92	ug/ml#	96
22) Benzo (a) pyrene	19.877	252	435448	2.27	ug/ml#	95
23) Indeno (1,2,3-cd) pyrene	21.221	276	488812	2.12	ug/ml#	86
24) Dibenzo (a,h) anthracene	21.227	278	391134	2.13	ug/ml#	95
25) Benzo (g,h,i) perylene	21.610	276	417934	2.17	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071852.D
Acq On : 19 Jul 2025 02:34 pm
Operator : BMS
Sample : SEQ-CAL6
Misc : LLPAH
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Jul 23 15:38:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071853.D
 Acq On : 19 Jul 2025 03:03 pm
 Operator : BMS
 Sample : SEQ-CAL7
 Misc : LLPAH
 ALS Vial : 45 Sample Multiplier: 1

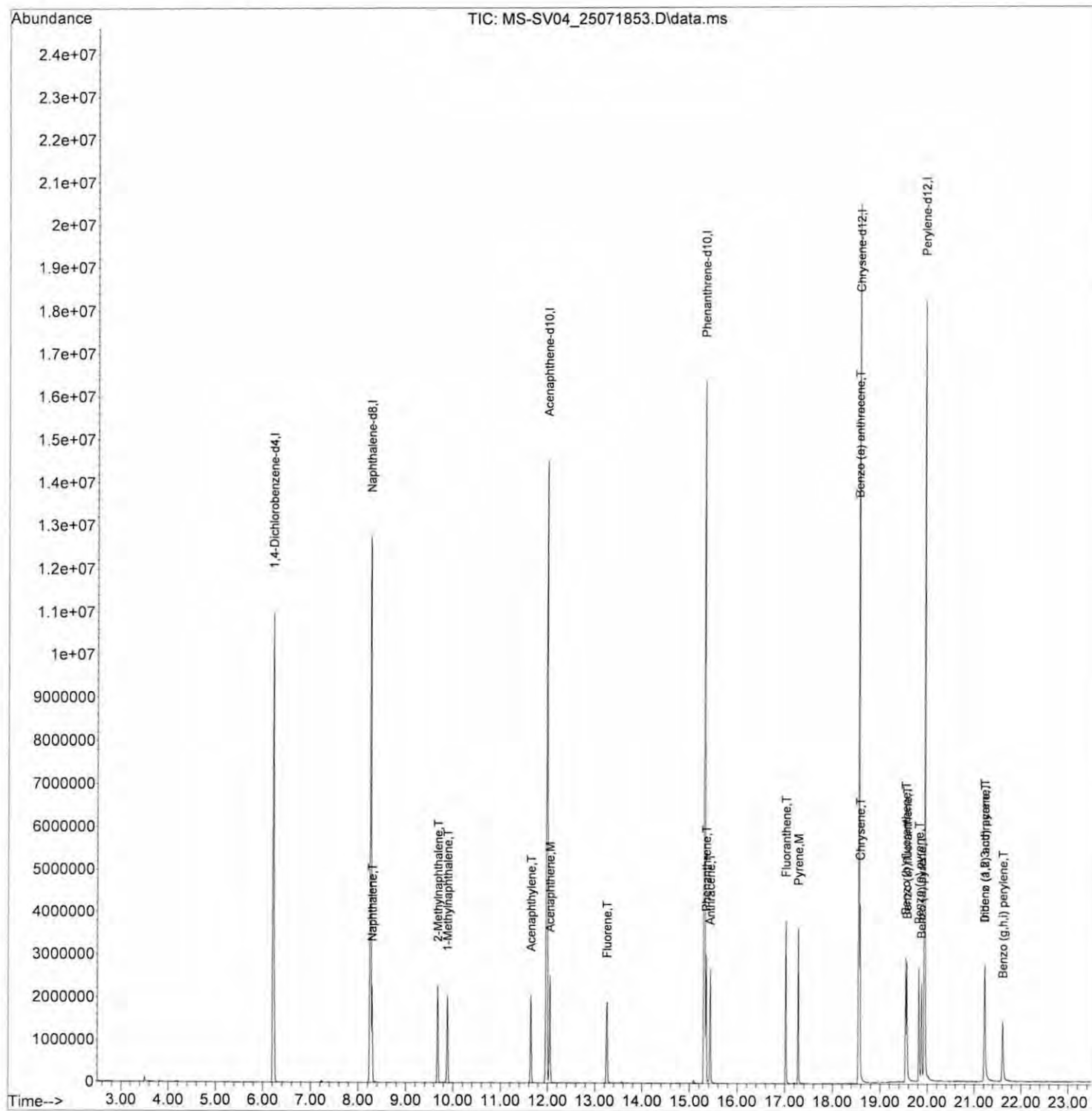
Quant Time: Jul 23 15:38:06 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3418338	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10388305	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.986	164	6153945	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.316	188	9504214	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.555	240	7930741	40.00	ug/ml	# 0.00
18) Perylene-d12	19.940	264	9037212	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.289	128	1605551	4.67	ug/ml	99
4) 2-Methylnaphthalene	9.674	142	1052928	5.25	ug/ml	96
5) 1-Methylnaphthalene	9.880	142	925083	5.09	ug/ml	92
7) Acenaphthylene	11.643	152	1474182	4.95	ug/ml	100
8) Acenaphthene	12.049	154	967523	5.00	ug/ml	97
9) Fluorene	13.256	166	1014965	5.74	ug/ml	98
11) Phenanthrene	15.350	178	1544889	4.92	ug/ml	99
12) Anthracene	15.436	178	1485556	5.77	ug/ml	99
13) Fluoranthene	17.021	202	1629954	5.11	ug/ml	98
15) Pyrene	17.285	202	1705133	4.99	ug/ml	99
16) Benzo (a) anthracene	18.543	228	1247134	4.93	ug/ml	99
17) Chrysene	18.578	228	1457452	5.11	ug/ml	99
19) Benzo (b) fluoranthene	19.539	252	1236952	4.66	ug/ml	99
20) Benzo (k) fluoranthene	19.568	252	1492039	5.29	ug/ml#	96
21) Benzo (e) pyrene	19.819	252	1194468	6.19	ug/ml#	96
22) Benzo (a) pyrene	19.877	252	1128974	4.96	ug/ml#	95
23) Indeno (1,2,3-cd) pyrene	21.221	276	1353329	4.93	ug/ml#	88
24) Dibenz (a,h) anthracene	21.227	278	1070738	4.89	ug/ml#	94
25) Benzo (g,h,i) perylene	21.610	276	1145980	5.00	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071853.D
Acq On : 19 Jul 2025 03:03 pm
Operator : BMS
Sample : SEQ-CAL7
Misc : LLPAH
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Jul 23 15:38:06 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071854.D
 Acq On : 19 Jul 2025 03:32 pm
 Operator : BMS
 Sample : SEQ-CAL8
 Misc : LLPAH
 ALS Vial : 46 Sample Multiplier: 1

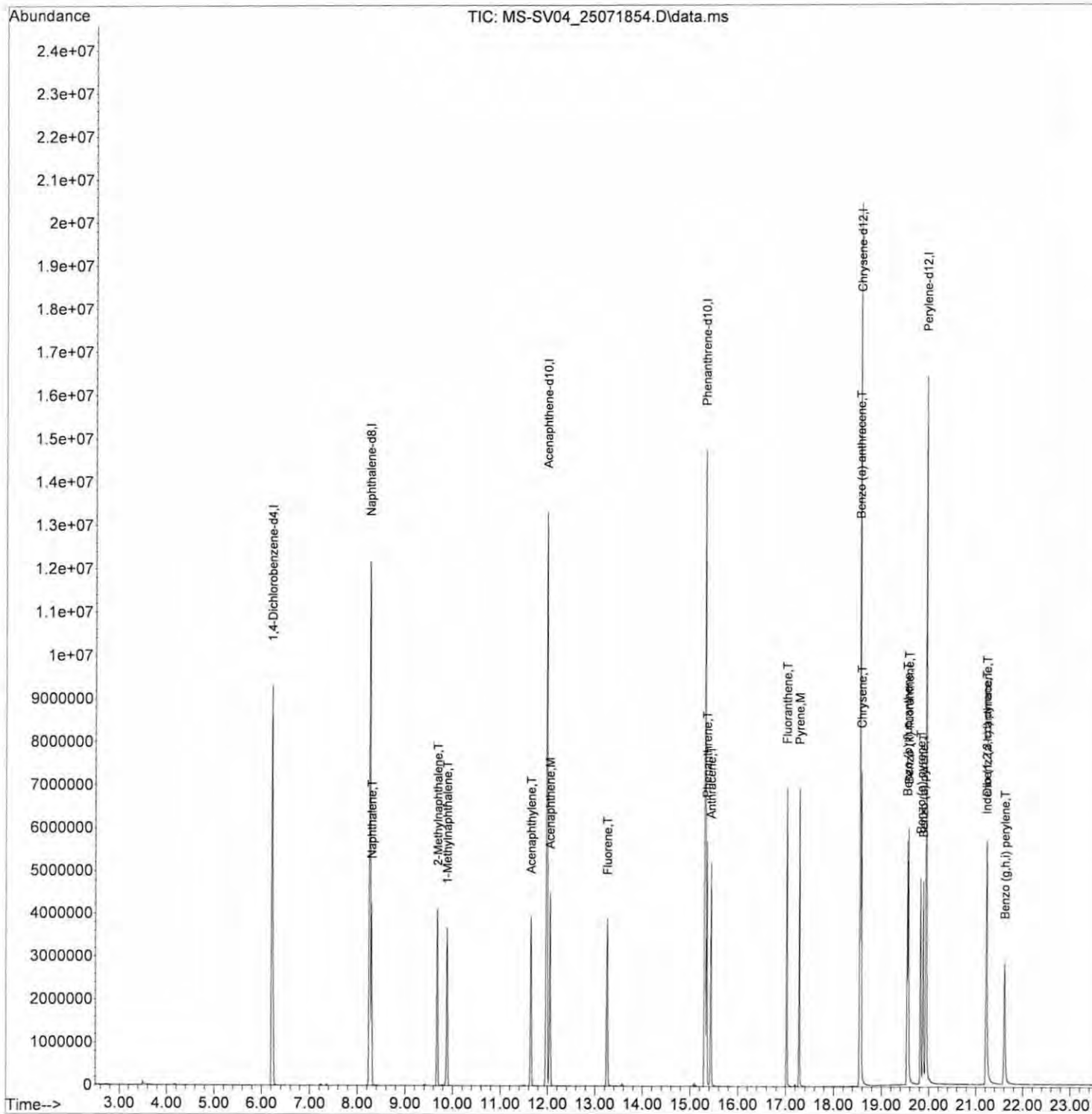
Quant Time: Jul 23 15:38:08 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 15:36:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3122864	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9571715	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.980	164	5691860	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.316	188	8770648	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.555	240	7051095	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	8080363	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.295	128	2946933	9.31	ug/ml	99
4) 2-Methylnaphthalene	9.680	142	2009035	10.86	ug/ml	97
5) 1-Methylnaphthalene	9.880	142	1727514	10.31	ug/ml	91
7) Acenaphthylene	11.642	152	2875925	10.38	ug/ml	100
8) Acenaphthene	12.049	154	1818303	10.15	ug/ml	97
9) Fluorene	13.256	166	2023021	12.36	ug/ml	98
11) Phenanthrene	15.350	178	2812183	9.70	ug/ml	99
12) Anthracene	15.436	178	2772891	11.66	ug/ml	100
13) Fluoranthene	17.021	202	3020637	10.21	ug/ml	98
15) Pyrene	17.284	202	3126030	10.25	ug/ml	100
16) Benzo (a) anthracene	18.543	228	2336800	10.45	ug/ml	99
17) Chrysene	18.578	228	2630166	10.36	ug/ml	99
19) Benzo (b) fluoranthene	19.539	252	2244844m	9.38	ug/ml	
20) Benzo (k) fluoranthene	19.567	252	2775018m	10.95	ug/ml	
21) Benzo (e) pyrene	19.819	252	2243074	13.00	ug/ml#	97
22) Benzo (a) pyrene	19.876	252	2193465	10.69	ug/ml#	96
23) Indeno (1,2,3-cd) pyrene	21.221	276	2460032m	9.95	ug/ml	
24) Dibenzo (a,h) anthracene	21.227	278	1940292m	9.83	ug/ml	
25) Benzo (g,h,i) perylene	21.610	276	2209882	10.71	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

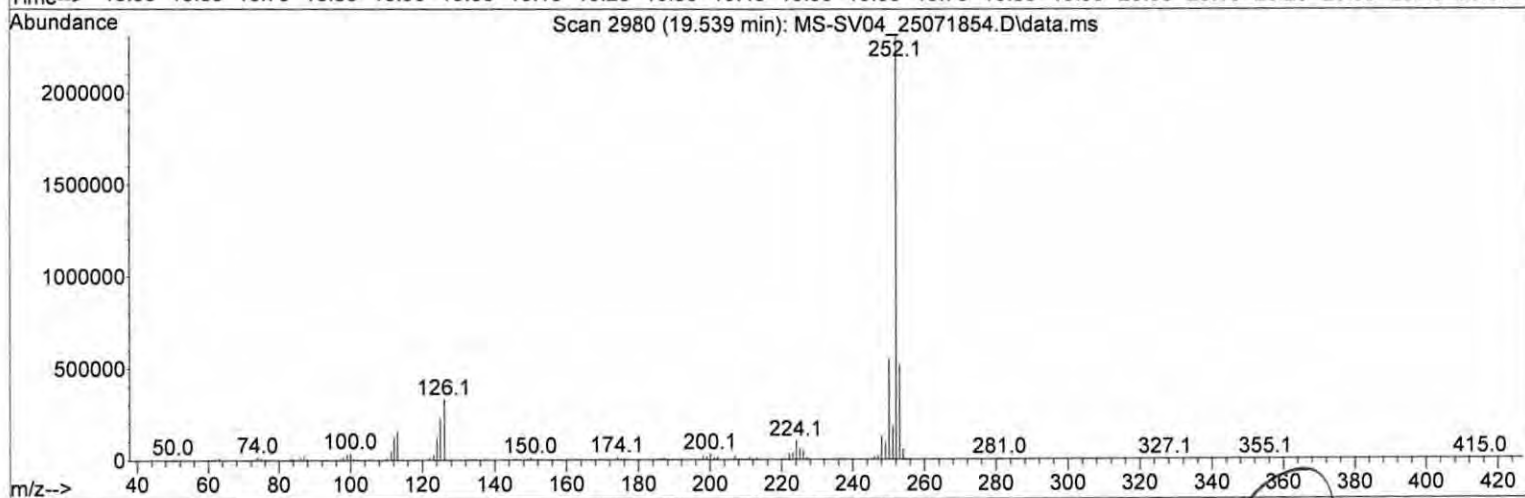
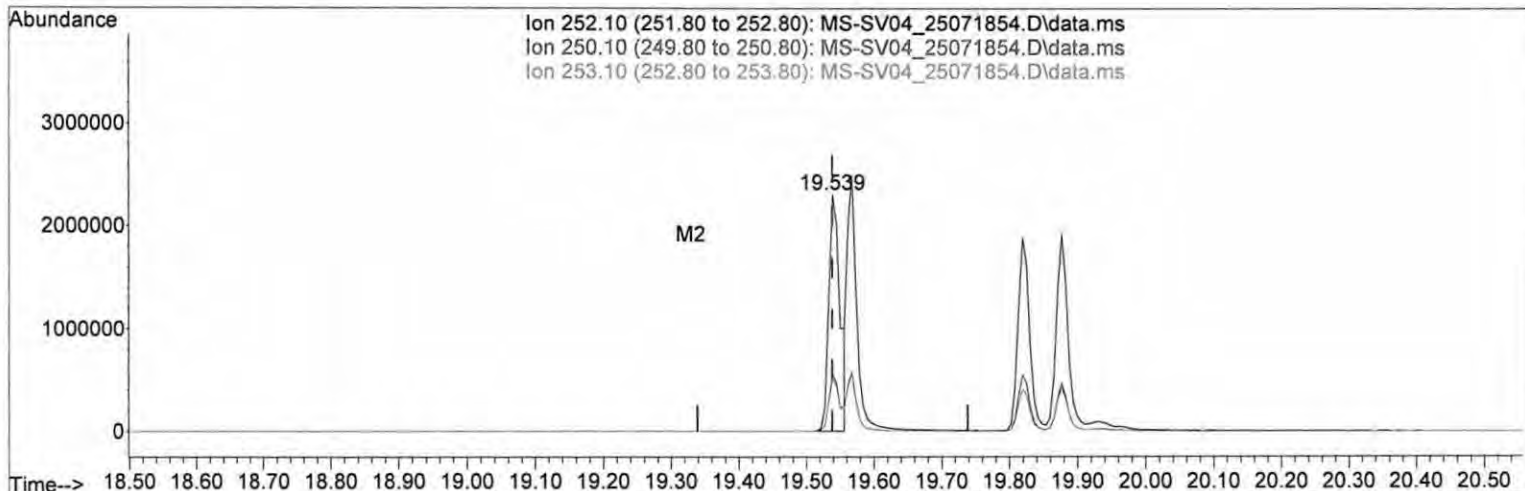
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jul 23 15:38:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 20 15:44:19 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Aug 20 15:43:57 2025
Response via : Initial Calibration



TIC: MS-SV04_25071854.D\data.ms

(19) Benzo (b) fluoranthene (T)

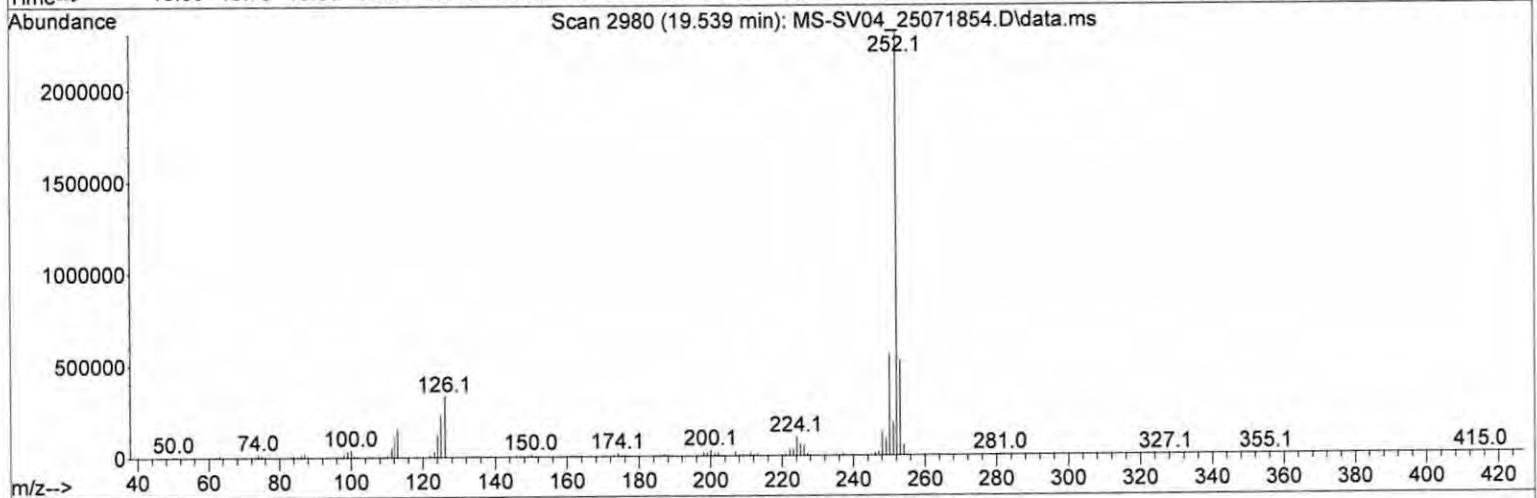
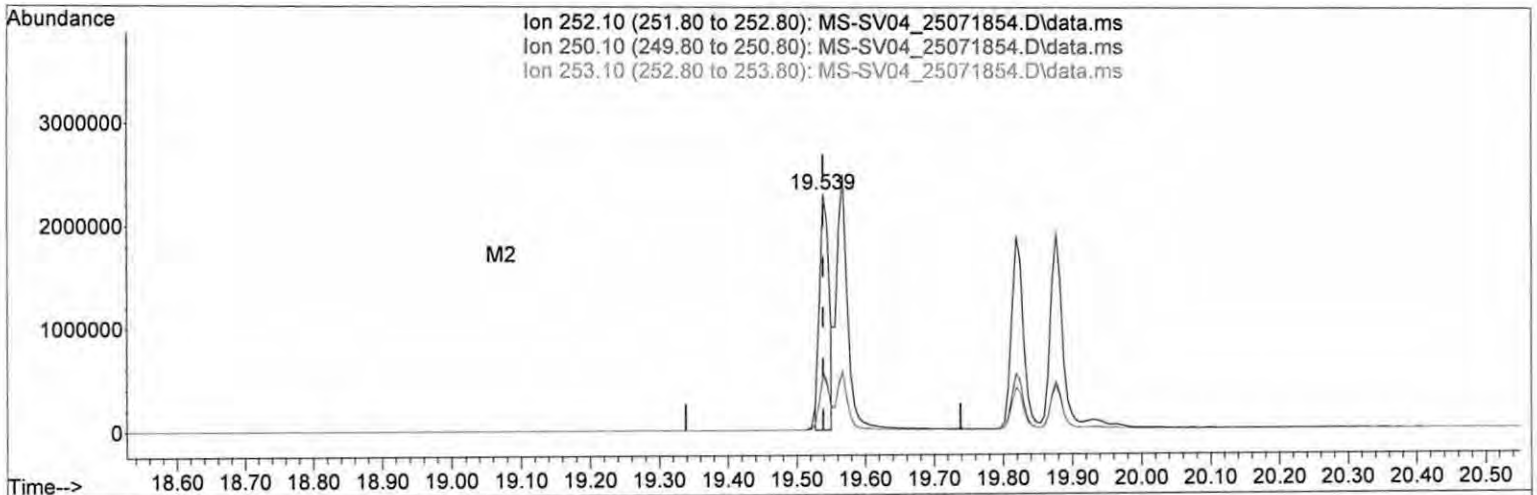
19.539min (-0.000) 12.37 ug/ml

response 2675716

Ion	Exp%	Act%
252.10	100.00	100.00
250.10	23.40	23.28
253.10	21.50	22.10
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jul 23 15:38:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



TIC: MS-SV04_25071854.D\data.ms

(19) Benzo (b) fluoranthene (T)

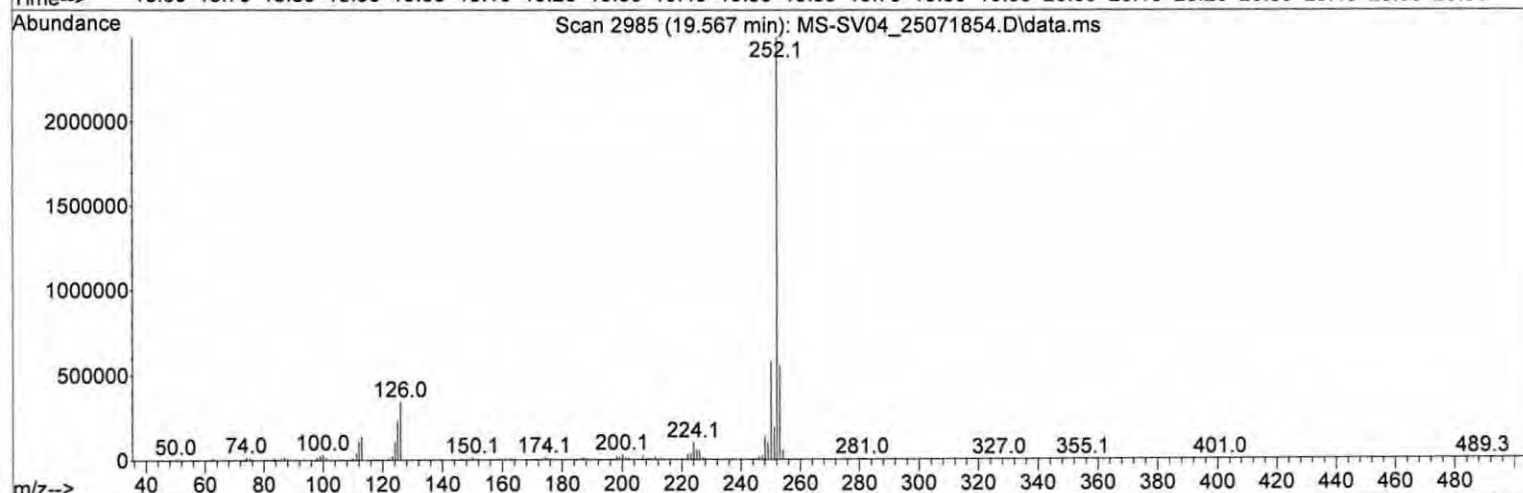
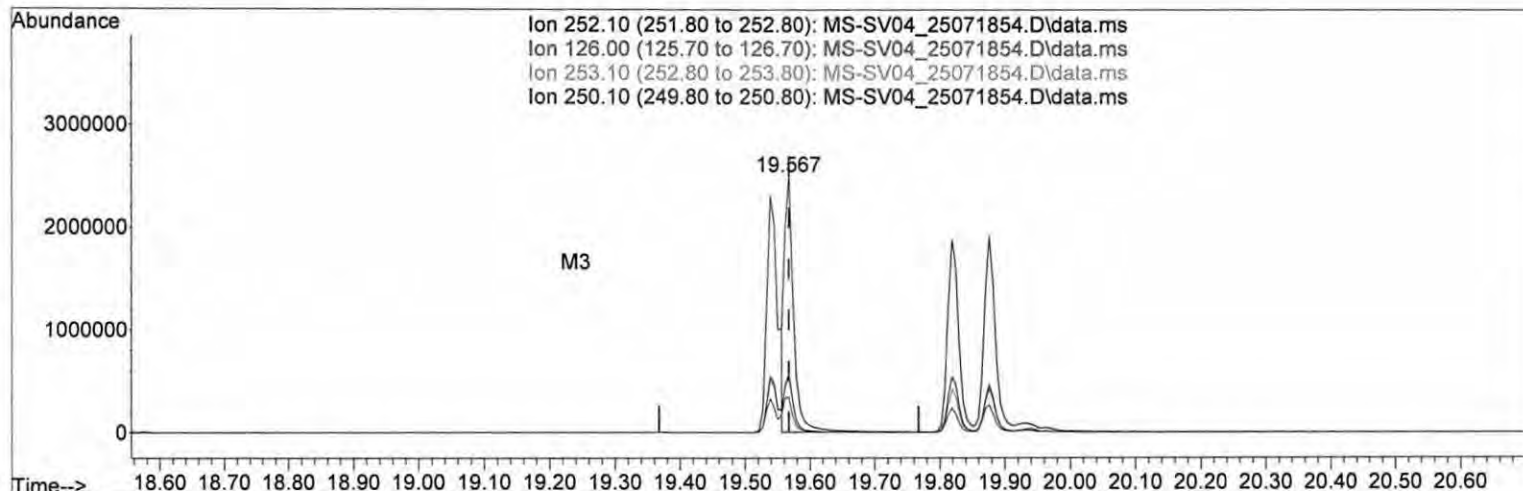
19.539min (-0.000) 9.38 ug/ml m

response 2244844

Ion	Exp%	Act%
252.10	100.00	100.00
250.10	23.40	27.75
253.10	21.50	26.35#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 20 15:44:19 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Aug 20 15:43:57 2025
Response via : Initial Calibration



TIC: MS-SV04_25071854.D\data.ms

(20) Benzo (k) fluoranthene (T)

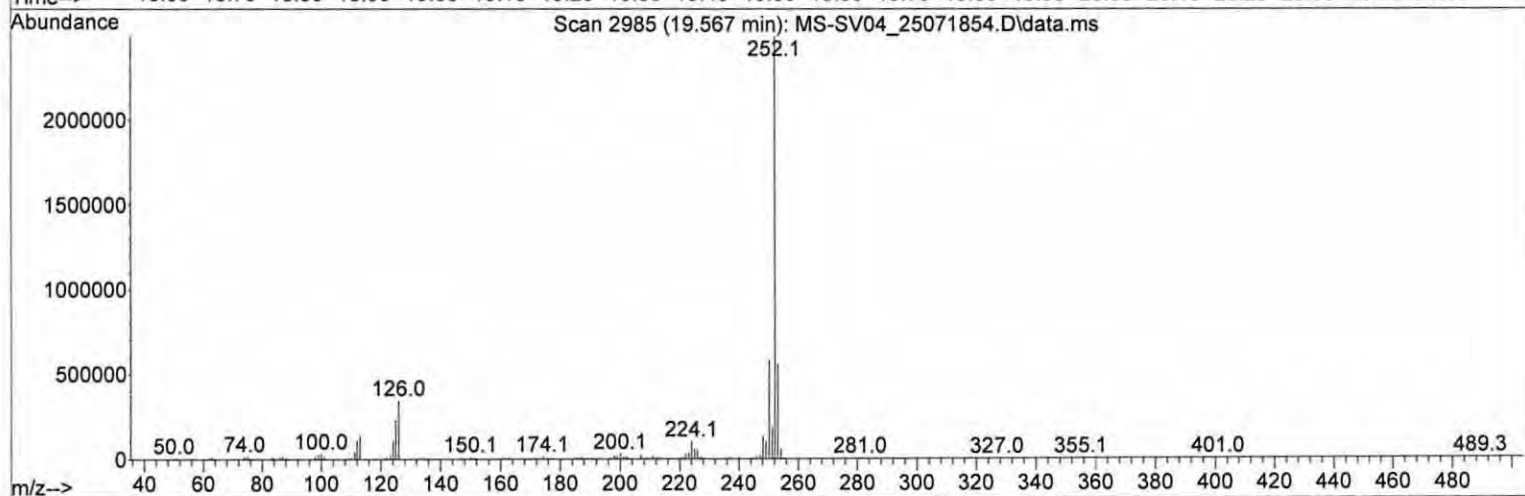
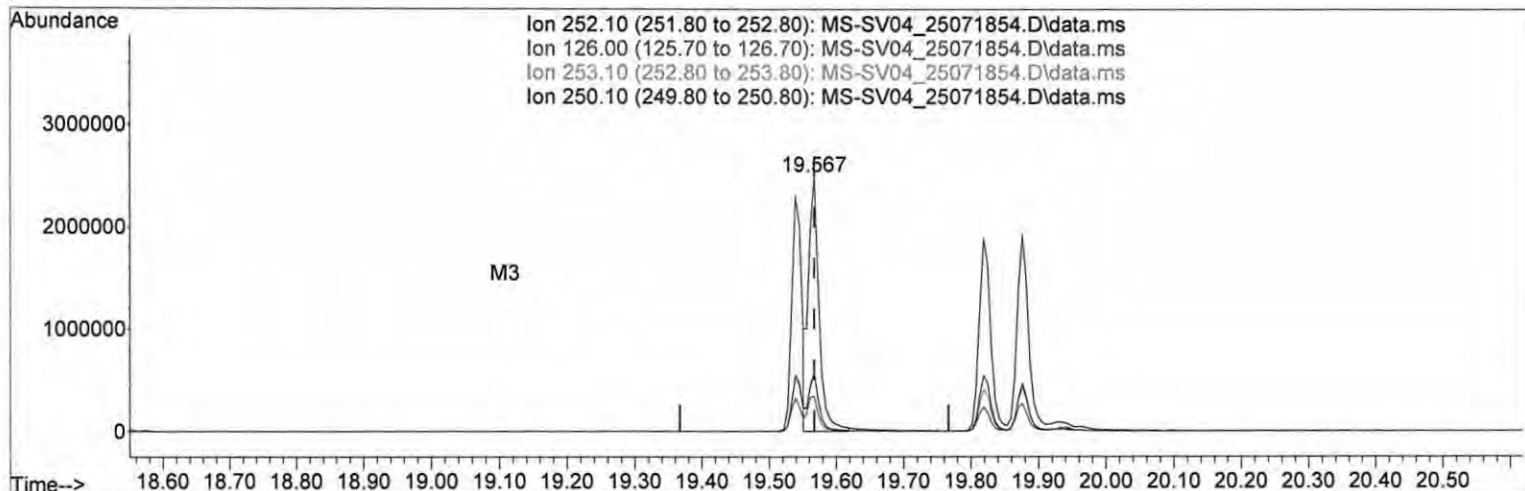
19.567min (-0.000) 9.09 ug/ml

response 2458402

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	10.70	16.56#
253.10	20.80	21.92
250.10	22.60	22.60

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jul 23 15:38:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



TIC: MS-SV04_25071854.D\data.ms

(20) Benzo (k) fluoranthene (T)

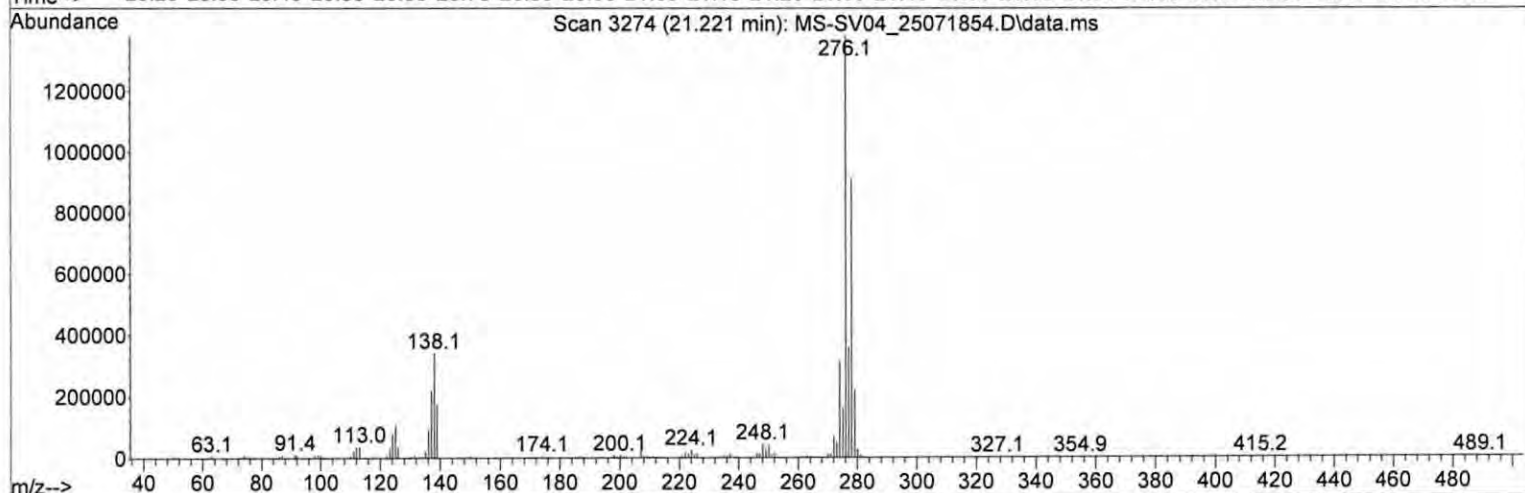
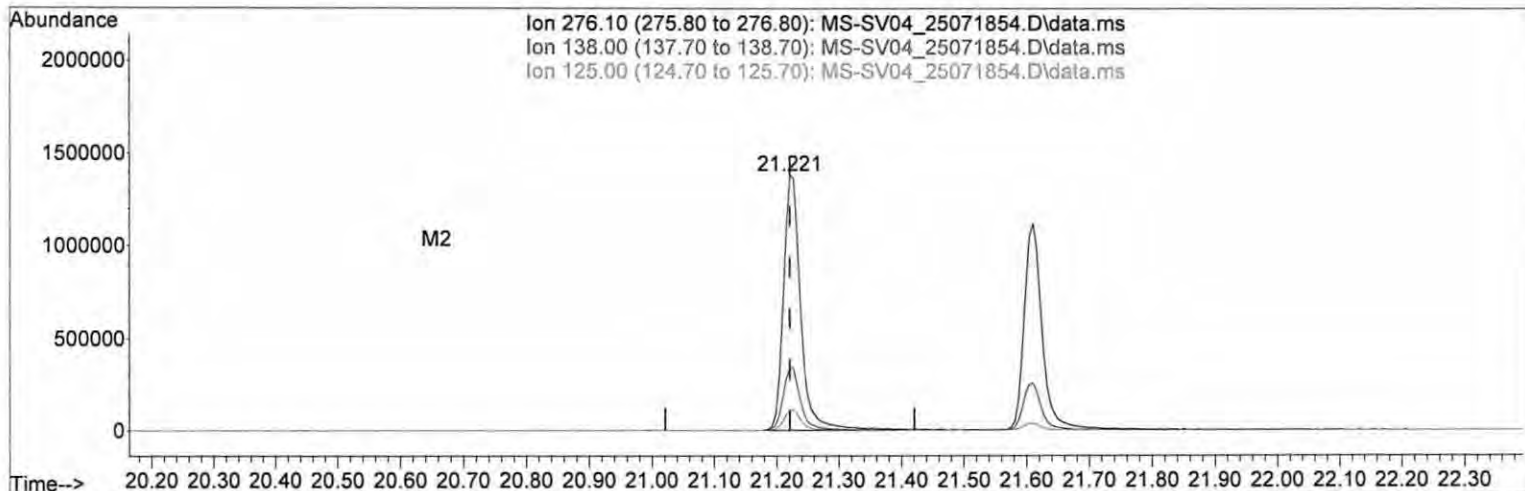
19.567min (-0.000) 10.95 ug/ml m

response 2775018

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	10.70	14.67#
253.10	20.80	19.42
250.10	22.60	20.02

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 20 15:44:19 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Aug 20 15:43:57 2025
Response via : Initial Calibration



TIC: MS-SV04_25071854.D\data.ms

(23) Indeno (1,2,3-cd) pyrene (T)

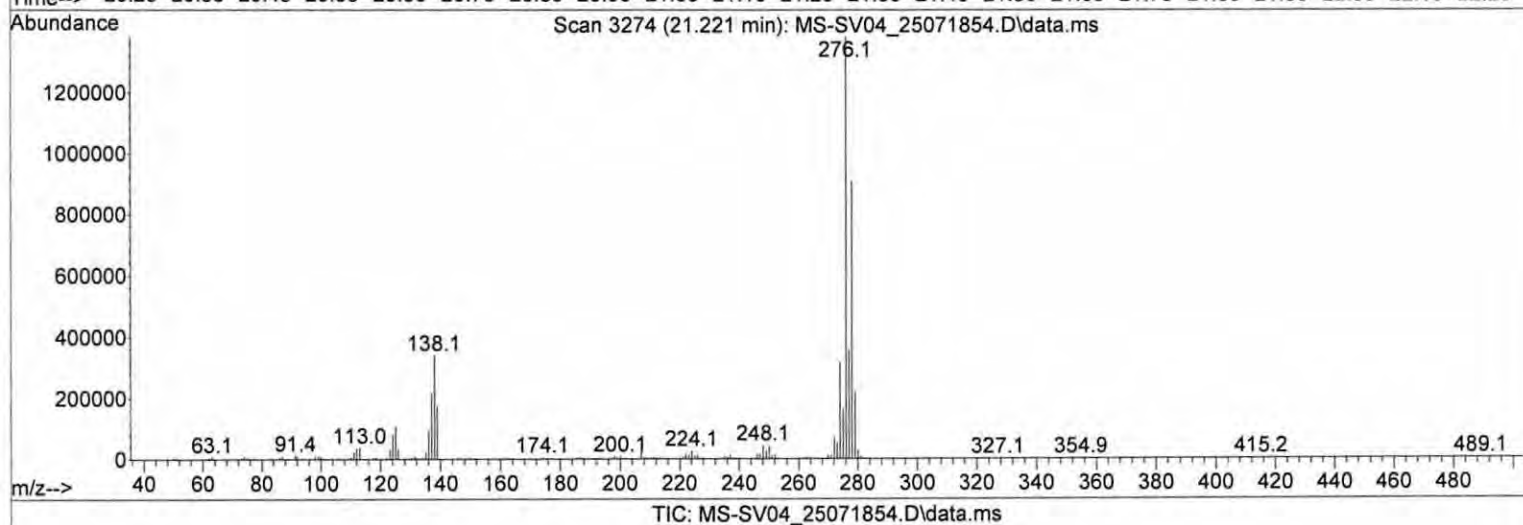
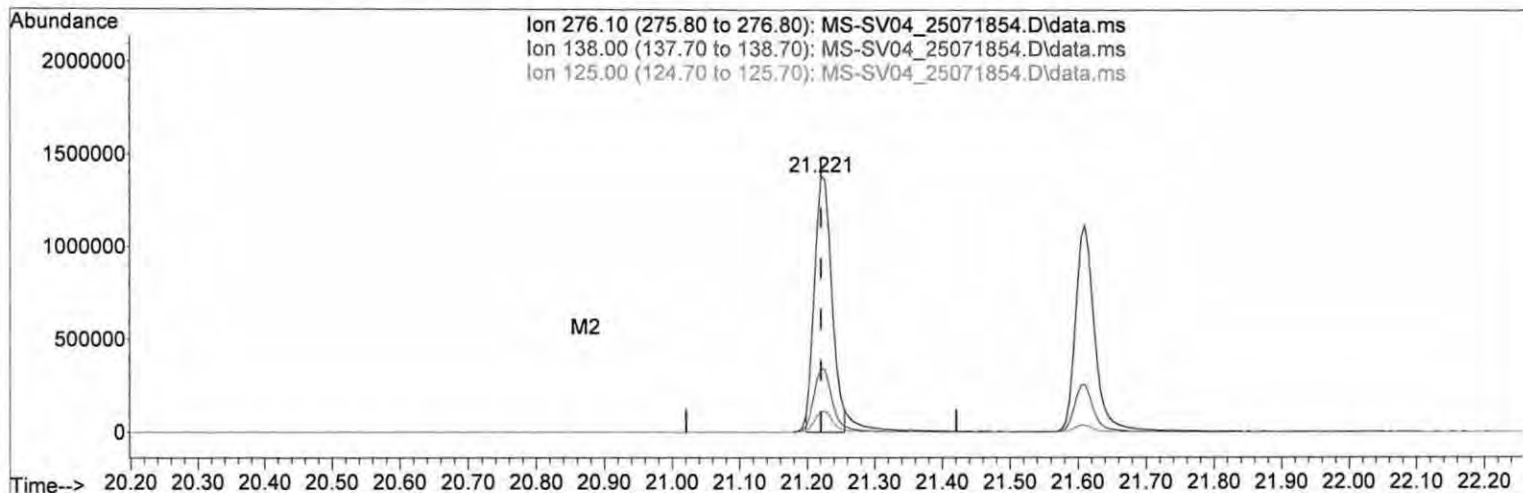
21.221min (-0.000) 11.33 ug/ml

response 2671852

Ion	Exp%	Act%
276.10	100.00	100.00
138.00	19.80	25.42#
125.00	7.00	8.35
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jul 23 15:38:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



(23) Indeno (1,2,3-cd) pyrene (T)

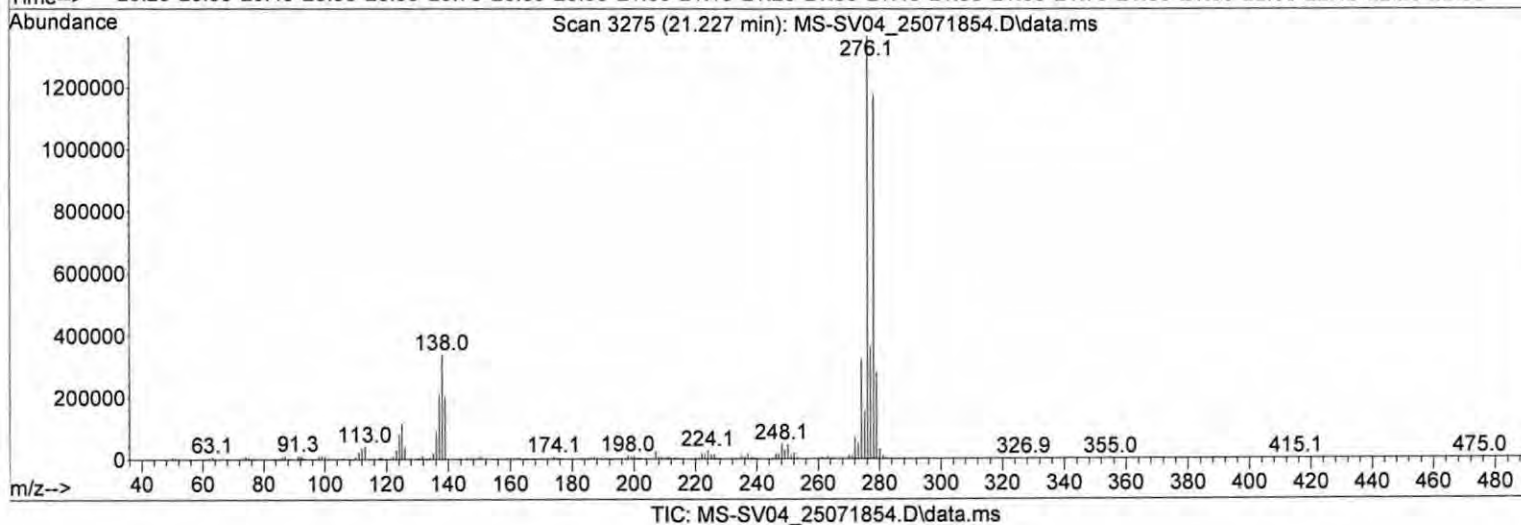
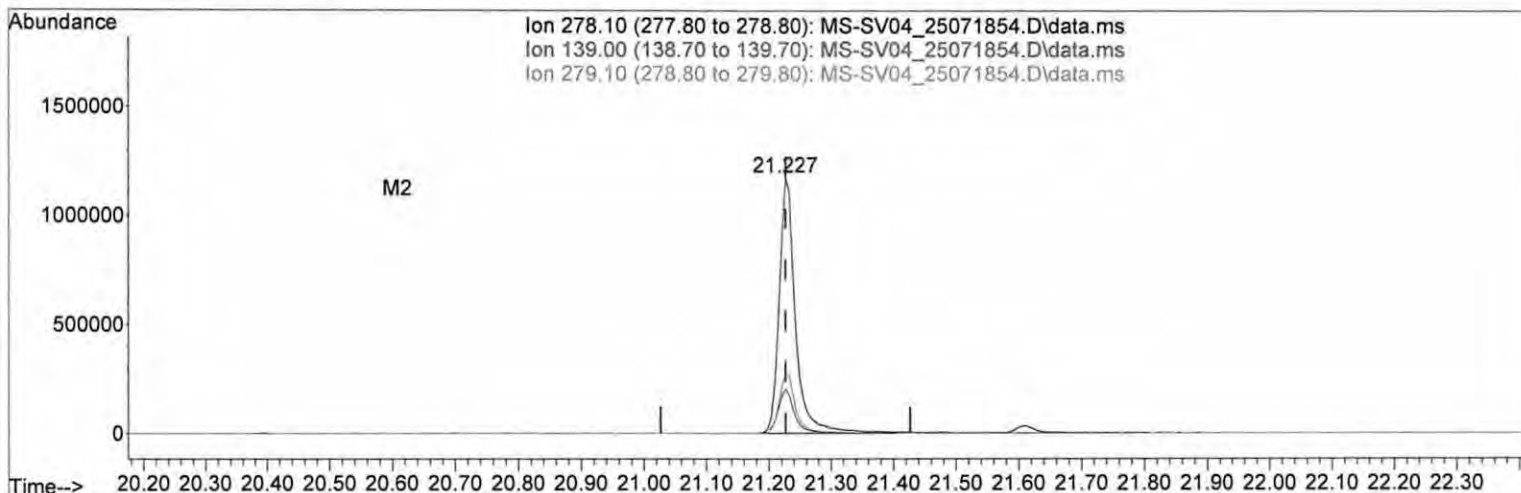
21.221min (-0.000) 9.95 ug/ml m

response 2460032

Ion	Exp%	Act%
276.10	100.00	100.00
138.00	19.80	27.61#
125.00	7.00	9.07#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Aug 20 15:44:19 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Aug 20 15:43:57 2025
Response via : Initial Calibration



(24) Dibenzo(a,h)anthracene (T)

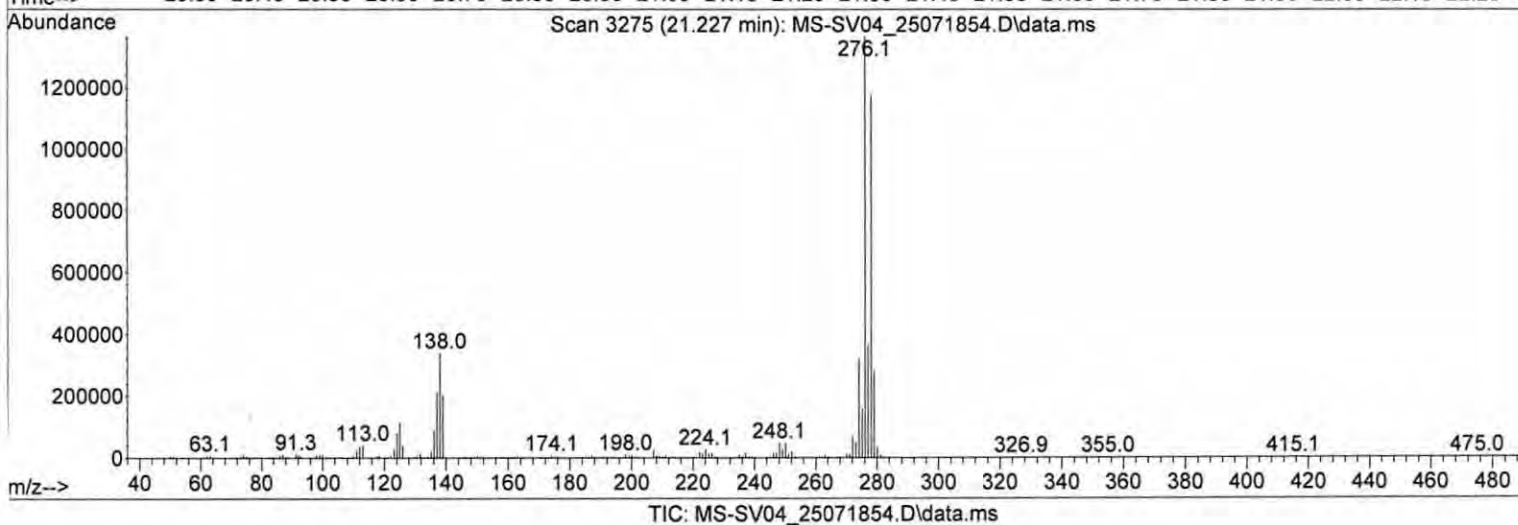
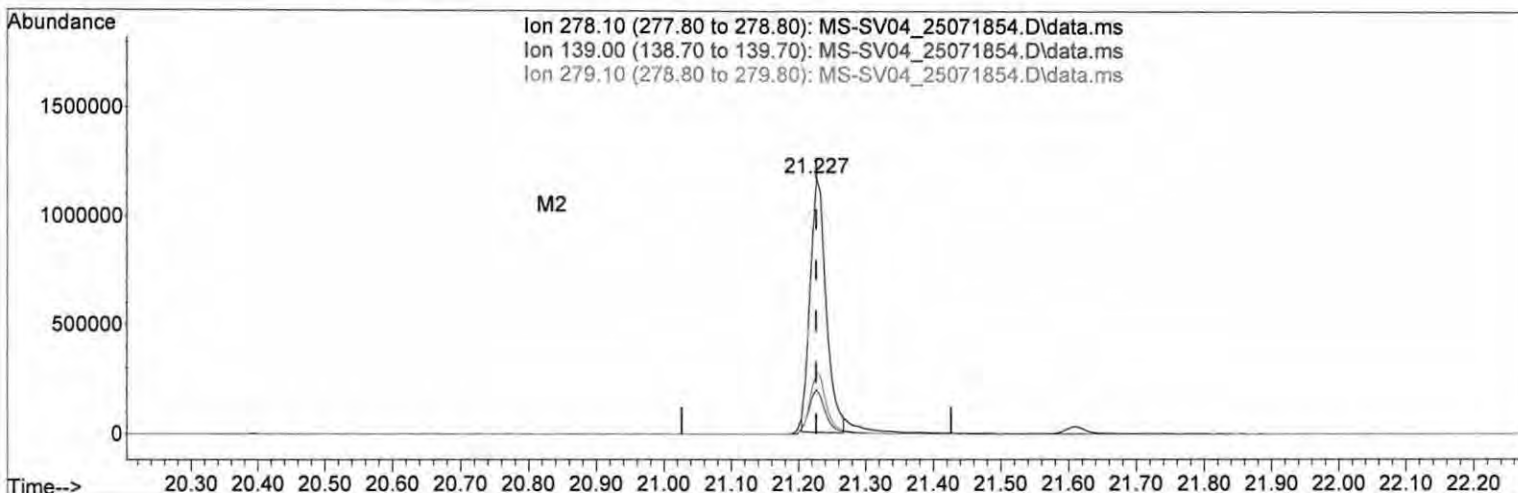
21.227min (-0.000) 11.51 ug/ml

response 2145700

Ion	Exp%	Act%
278.10	100.00	100.00
139.00	13.30	17.52#
279.10	22.90	23.55
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071854.D
Acq On : 19 Jul 2025 03:32 pm
Operator : BMS
Sample : SEQ-CAL8
Misc : LLPAH
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jul 23 15:38:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:36:55 2025
Response via : Initial Calibration



(24) Dibenz (a,h) anthracene (T)

21.227min (-0.000) 9.83 ug/ml m

response 1940292

Ion	Exp%	Act%
278.10	100.00	100.00
139.00	13.30	19.38#
279.10	22.90	26.04
0.00	0.00	0.00

INSTRUMENT PERFORMANCE CHECK (TUNE)

358 of 521

SW8270E

Laboratory:	Enthalpy Analytical	Work Order:	25H0034
Client:	Draper Aden Associates - Blacksburg	Project:	HWMU 16
Lab File ID:	MS-SV04_25071806.D	Injection Date:	07/18/25
Instrument ID:	MS-SV04	Injection Time:	16:13
Sequence:	SIG1011	Lab Sample ID:	SIG1011-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	38.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	43.8	PASS
70	Less than 2% of 69	0.484	PASS
127	40 - 60% of 198	53.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.15	PASS
275	10 - 30% of 198	23.6	PASS
365	1 - 100% of 198	2.4	PASS
441	0.01 - 99.99% of 443	75.9	PASS
442	40 - 100% of 198	55.9	PASS
443	17 - 23% of 442	19.9	PASS

Samples Associated with Tune

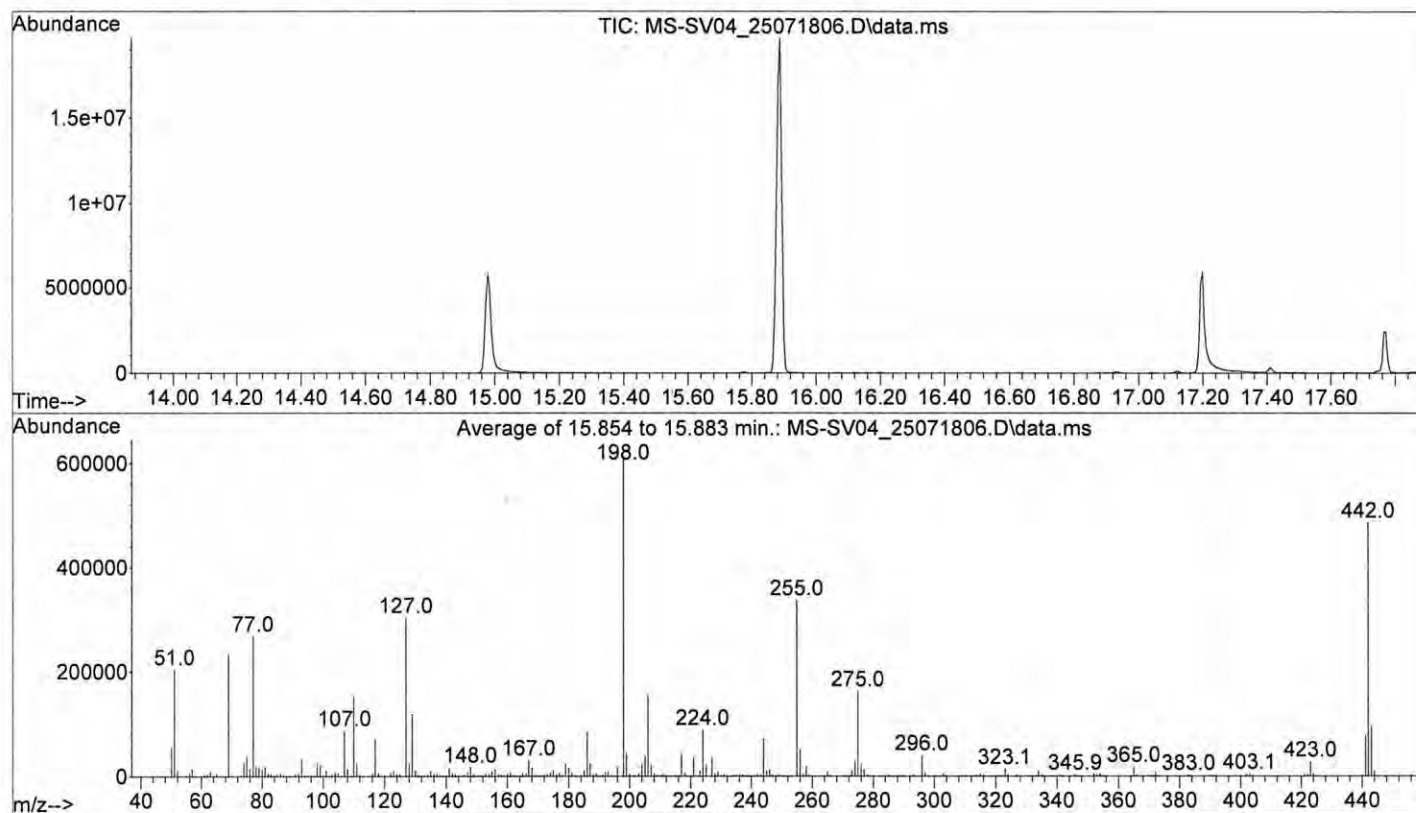
359 of 521

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	SIG1011-CAL1	MS-SV04_25071807.D	07/18/2025	17:13:00
Cal Standard	SIG1011-CAL2	MS-SV04_25071808.D	07/18/2025	17:42:00
Cal Standard	SIG1011-CAL3	MS-SV04_25071809.D	07/18/2025	18:10:00
Cal Standard	SIG1011-CAL4	MS-SV04_25071810.D	07/18/2025	18:40:00
Cal Standard	SIG1011-CAL5	MS-SV04_25071811.D	07/18/2025	19:08:00
Cal Standard	SIG1011-CAL6	MS-SV04_25071812.D	07/18/2025	19:37:00
Cal Standard	SIG1011-CAL7	MS-SV04_25071813.D	07/18/2025	20:06:00
Cal Standard	SIG1011-CAL8	MS-SV04_25071814.D	07/18/2025	20:35:00
Cal Standard	SIG1011-CAL9	MS-SV04_25071816.D	07/18/2025	21:31:00
Cal Standard	SIG1011-CALA	MS-SV04_25071817.D	07/18/2025	22:00:00
Cal Standard	SIG1011-CALB	MS-SV04_25071818.D	07/18/2025	22:28:00
Cal Standard	SIG1011-CALC	MS-SV04_25071819.D	07/18/2025	22:57:00
Cal Standard	SIG1011-CALD	MS-SV04_25071820.D	07/18/2025	23:25:00
Cal Standard	SIG1011-CALE	MS-SV04_25071821.D	07/18/2025	23:54:00
Cal Standard	SIG1011-CALF	MS-SV04_25071822.D	07/19/2025	0:22:00
Cal Standard	SIG1011-CALG	MS-SV04_25071823.D	07/19/2025	0:51:00
Initial Cal Check	SIG1011-ICV2	MS-SV04_25071824.D	07/19/2025	1:19:00
Cal Standard	SIG1011-CALI	MS-SV04_25071828.D	07/19/2025	3:12:00
Cal Standard	SIG1011-CALJ	MS-SV04_25071829.D	07/19/2025	3:40:00
Cal Standard	SIG1011-CALK	MS-SV04_25071830.D	07/19/2025	4:09:00
Cal Standard	SIG1011-CALL	MS-SV04_25071831.D	07/19/2025	4:37:00
Cal Standard	SIG1011-CALM	MS-SV04_25071832.D	07/19/2025	5:06:00
Cal Standard	SIG1011-CALN	MS-SV04_25071833.D	07/19/2025	5:34:00
Cal Standard	SIG1011-CALO	MS-SV04_25071834.D	07/19/2025	6:02:00
Initial Cal Check	SIG1011-ICV3	MS-SV04_25071835.D	07/19/2025	6:31:00
Cal Standard	SIG1011-CALP	MS-SV04_25071836.D	07/19/2025	6:59:00
Cal Standard	SIG1011-CALQ	MS-SV04_25071837.D	07/19/2025	7:27:00
Cal Standard	SIG1011-CALR	MS-SV04_25071838.D	07/19/2025	7:56:00
Cal Standard	SIG1011-CALS	MS-SV04_25071839.D	07/19/2025	8:24:00
Cal Standard	SIG1011-CALT	MS-SV04_25071840.D	07/19/2025	8:53:00
Cal Standard	SIG1011-CALU	MS-SV04_25071841.D	07/19/2025	9:21:00
Cal Standard	SIG1011-CALV	MS-SV04_25071842.D	07/19/2025	9:50:00
Cal Standard	SIG1011-CALW	MS-SV04_25071843.D	07/19/2025	10:18:00
Initial Cal Check	SIG1011-ICV4	MS-SV04_25071844.D	07/19/2025	10:46:00
Initial Cal Check	SIG1011-ICV1	MS-SV04_25071914.D	07/23/2025	13:50:00
Cal Standard	SIG1011-CALH	MS-SV04_25071915.D	07/23/2025	14:40:00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071806.D
Acq On : 18 Jul 2025 04:13 pm
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\GCMS\1\methods\DFTPP_625.1.M
Title : DFTPP method
Last Update : Wed Jul 16 11:54:59 2025



Spectrum Information: Average of 15.854 to 15.883 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.2	204033	PASS
68	69	0.00	2	0.0	26	PASS
69	198	0.01	200	37.9	232844	PASS
70	69	0.00	2	0.5	1137	PASS
127	198	40	60	49.4	303204	PASS
197	198	0.00	1	0.0	0	PASS
198	198	1	100	100.0	614127	PASS
199	198	5	9	7.2	44157	PASS
275	198	10	30	26.4	162348	PASS
365	198	1	200	2.9	17797	PASS
441	443	0.01	100	80.7	76988	PASS
442	198	40	100	79.2	486175	PASS
443	442	17	23	19.6	95386	PASS

HL4

INSTRUMENT PERFORMANCE CHECK (TUNE)

361 of 521

SW8270E

Laboratory:	Enthalpy Analytical	Work Order:	25H0034
Client:	Draper Aden Associates - Blacksburg	Project:	HWMU 16
Lab File ID:	MS-SV04_25071826.D	Injection Date:	07/19/25
Instrument ID:	MS-SV04	Injection Time:	02:15
Sequence:	SIG1011	Lab Sample ID:	SIG1011-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	32	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	37.1	PASS
70	Less than 2% of 69	0.538	PASS
127	40 - 60% of 198	49.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.35	PASS
275	10 - 30% of 198	26	PASS
365	1 - 100% of 198	2.86	PASS
441	0.01 - 99.99% of 443	77	PASS
442	40 - 100% of 198	74.2	PASS
443	17 - 23% of 442	20.7	PASS

Samples Associated with Tune

362 of 521

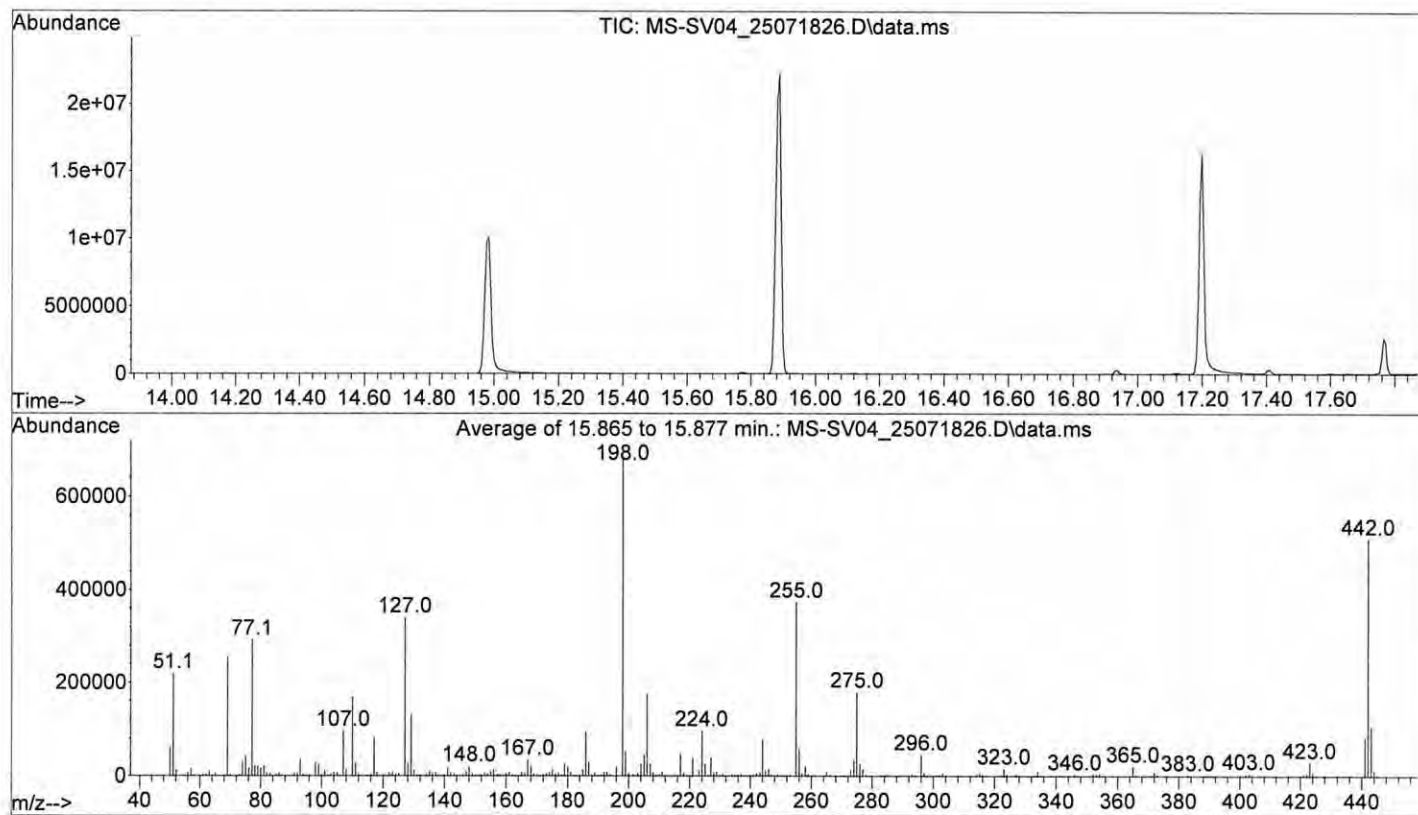
Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	SIG1011-CAL1	MS-SV04_25071807.D	07/18/2025	17:13:00
Cal Standard	SIG1011-CAL2	MS-SV04_25071808.D	07/18/2025	17:42:00
Cal Standard	SIG1011-CAL3	MS-SV04_25071809.D	07/18/2025	18:10:00
Cal Standard	SIG1011-CAL4	MS-SV04_25071810.D	07/18/2025	18:40:00
Cal Standard	SIG1011-CAL5	MS-SV04_25071811.D	07/18/2025	19:08:00
Cal Standard	SIG1011-CAL6	MS-SV04_25071812.D	07/18/2025	19:37:00
Cal Standard	SIG1011-CAL7	MS-SV04_25071813.D	07/18/2025	20:06:00
Cal Standard	SIG1011-CAL8	MS-SV04_25071814.D	07/18/2025	20:35:00
Cal Standard	SIG1011-CAL9	MS-SV04_25071816.D	07/18/2025	21:31:00
Cal Standard	SIG1011-CALA	MS-SV04_25071817.D	07/18/2025	22:00:00
Cal Standard	SIG1011-CALB	MS-SV04_25071818.D	07/18/2025	22:28:00
Cal Standard	SIG1011-CALC	MS-SV04_25071819.D	07/18/2025	22:57:00
Cal Standard	SIG1011-CALD	MS-SV04_25071820.D	07/18/2025	23:25:00
Cal Standard	SIG1011-CALE	MS-SV04_25071821.D	07/18/2025	23:54:00
Cal Standard	SIG1011-CALF	MS-SV04_25071822.D	07/19/2025	0:22:00
Cal Standard	SIG1011-CALG	MS-SV04_25071823.D	07/19/2025	0:51:00
Initial Cal Check	SIG1011-ICV2	MS-SV04_25071824.D	07/19/2025	1:19:00
Cal Standard	SIG1011-CALI	MS-SV04_25071828.D	07/19/2025	3:12:00
Cal Standard	SIG1011-CALJ	MS-SV04_25071829.D	07/19/2025	3:40:00
Cal Standard	SIG1011-CALK	MS-SV04_25071830.D	07/19/2025	4:09:00
Cal Standard	SIG1011-CALL	MS-SV04_25071831.D	07/19/2025	4:37:00
Cal Standard	SIG1011-CALM	MS-SV04_25071832.D	07/19/2025	5:06:00
Cal Standard	SIG1011-CALN	MS-SV04_25071833.D	07/19/2025	5:34:00
Cal Standard	SIG1011-CALO	MS-SV04_25071834.D	07/19/2025	6:02:00
Initial Cal Check	SIG1011-ICV3	MS-SV04_25071835.D	07/19/2025	6:31:00
Cal Standard	SIG1011-CALP	MS-SV04_25071836.D	07/19/2025	6:59:00
Cal Standard	SIG1011-CALQ	MS-SV04_25071837.D	07/19/2025	7:27:00
Cal Standard	SIG1011-CALR	MS-SV04_25071838.D	07/19/2025	7:56:00
Cal Standard	SIG1011-CALS	MS-SV04_25071839.D	07/19/2025	8:24:00
Cal Standard	SIG1011-CALT	MS-SV04_25071840.D	07/19/2025	8:53:00
Cal Standard	SIG1011-CALU	MS-SV04_25071841.D	07/19/2025	9:21:00
Cal Standard	SIG1011-CALV	MS-SV04_25071842.D	07/19/2025	9:50:00
Cal Standard	SIG1011-CALW	MS-SV04_25071843.D	07/19/2025	10:18:00
Initial Cal Check	SIG1011-ICV4	MS-SV04_25071844.D	07/19/2025	10:46:00
Initial Cal Check	SIG1011-ICV1	MS-SV04_25071914.D	07/23/2025	13:50:00
Cal Standard	SIG1011-CALH	MS-SV04_25071915.D	07/23/2025	14:40:00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071826.D
Acq On : 19 Jul 2025 02:15 am
Operator : BMS
Sample : SEQ-TUN2
Misc :
ALS Vial : 2 Sample Multiplier: 1

363 of 521

Integration File: events.e

Method : C:\GCMS\1\methods\DFTPP_625.1.M
Title : DFTPP method
Last Update : Fri Jul 18 16:42:46 2025

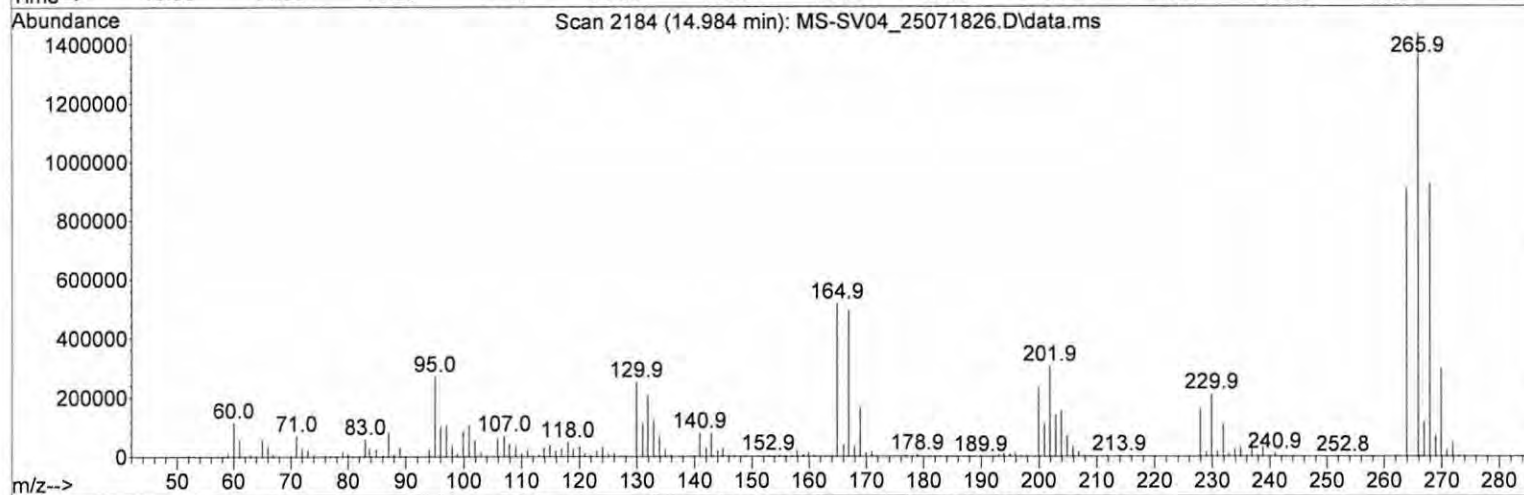
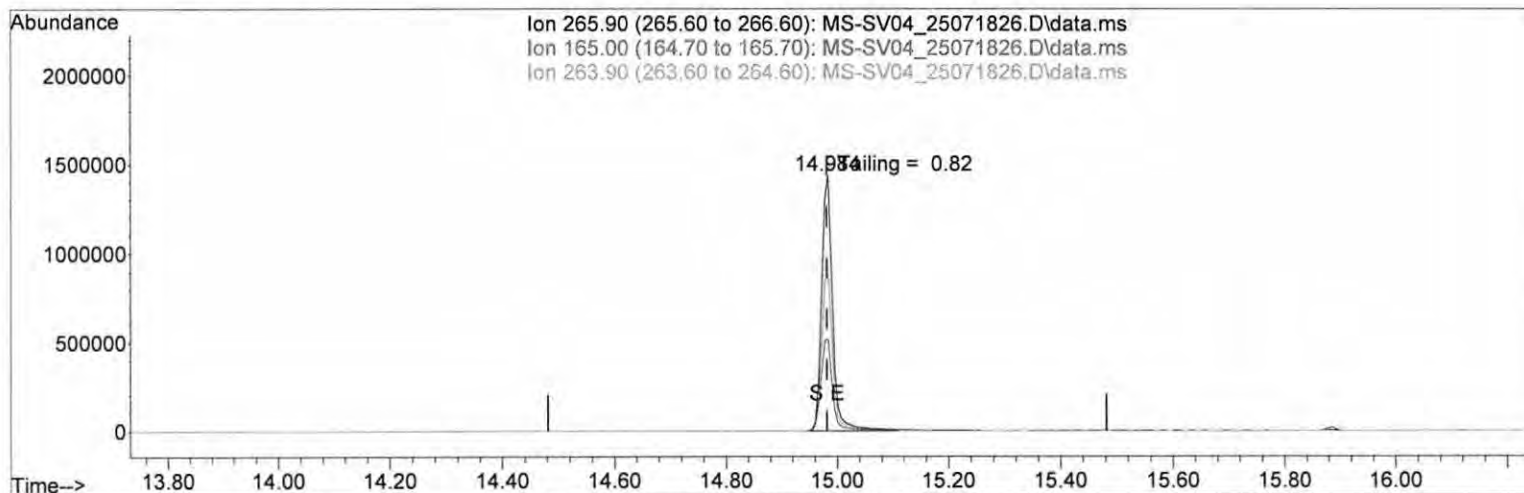


Spectrum Information: Average of 15.865 to 15.877 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.0	219053	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	200	37.1	254451	PASS
70	69	0.00	2	0.5	1368	PASS
127	198	40	60	49.5	339213	PASS
197	198	0.00	1	0.0	0	PASS
198	198	1	100	100.0	685480	PASS
199	198	5	9	7.4	50393	PASS
275	198	10	30	26.0	178478	PASS
365	198	1	200	2.9	19573	PASS
441	443	0.01	100	77.0	81253	PASS
442	198	40	100	74.2	508901	PASS
443	442	17	23	20.7	105560	PASS

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071826.D
Acq On : 19 Jul 2025 02:15 am
Operator : BMS
Sample : SEQ-TUN2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:44:21 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
QLast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071826.D\data.ms

(1) Pentachlorophenol

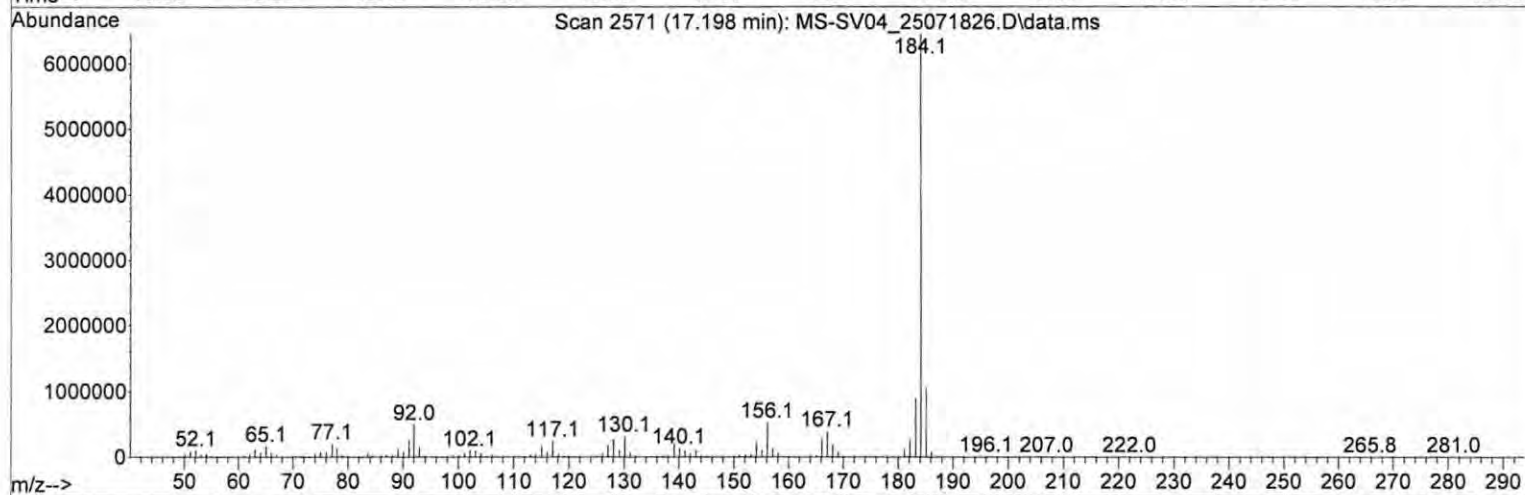
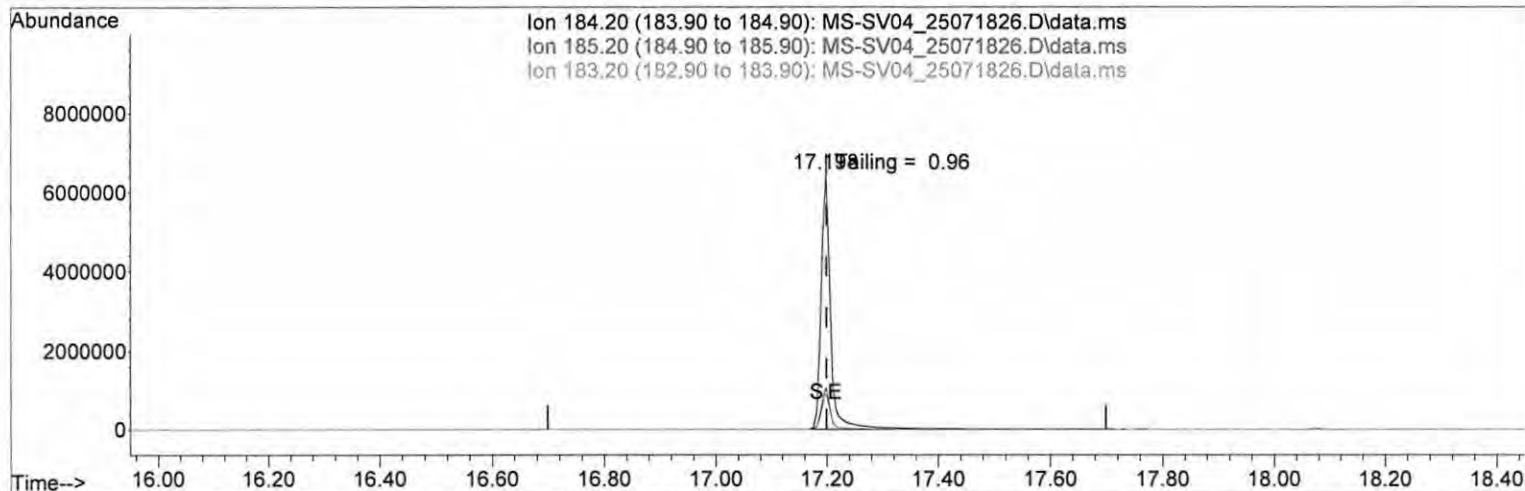
14.985min (+ 0.003) 118.44 ng/ul

response 19403273

Ion	Exp%	Act%
265.90	100.00	100.00
165.00	37.30	37.56
263.90	61.90	62.95
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071826.D
Acq On : 19 Jul 2025 02:15 am
Operator : BMS
Sample : SEQ-TUN2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:44:21 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
Qlast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071826.D\data.ms

(3) Benzidine

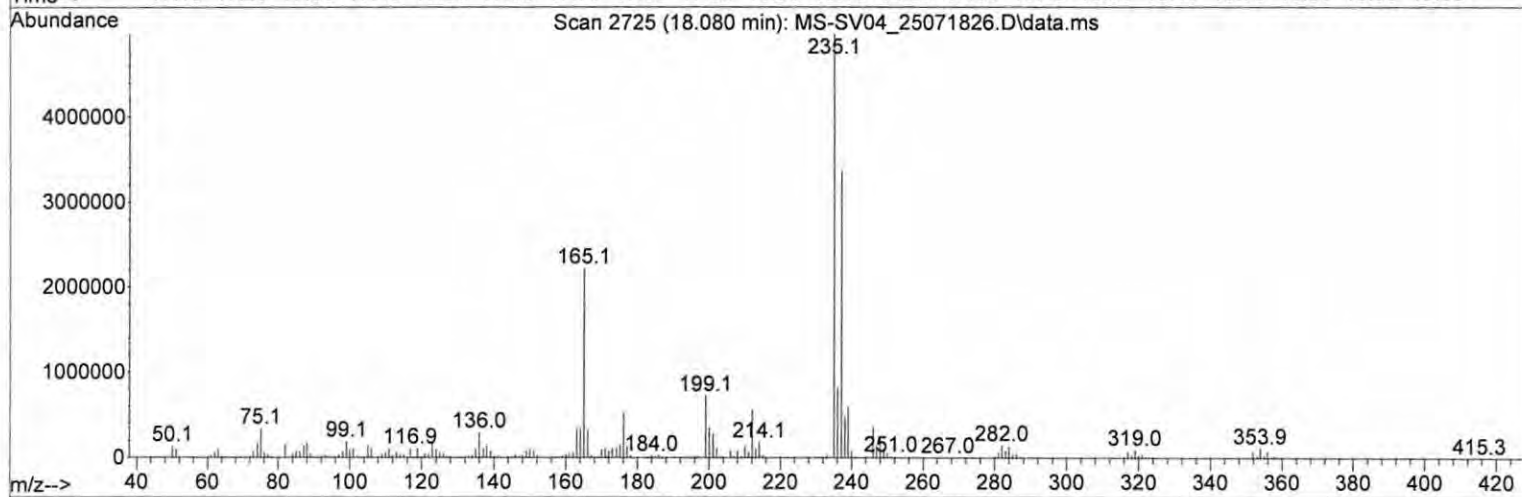
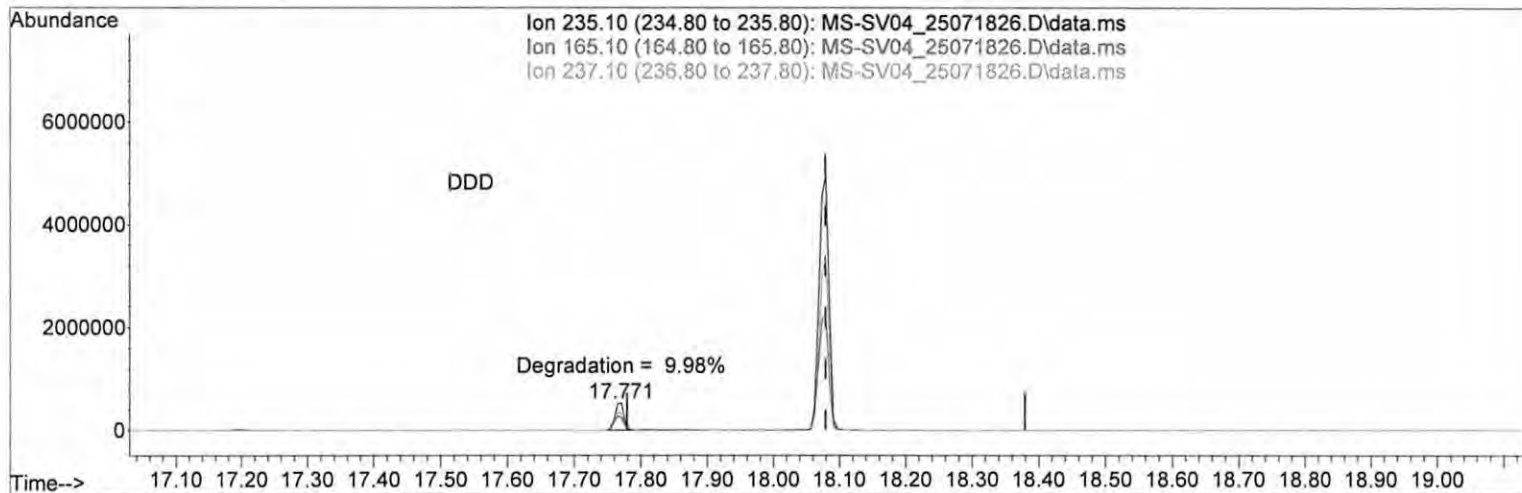
17.200min (+ 0.001) 122.99 ng/ul

response 74290701

Ion	Exp%	Act%
184.20	100.00	100.00
185.20	14.10	15.43
183.20	12.20	12.83
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071826.D
Acq On : 19 Jul 2025 02:15 am
Operator : BMS
Sample : SEQ-TUN2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:44:21 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
Qlast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071826.D\data.ms

(6) DDT

18.080min (+ 0.000) 124.41 ng/ul

response 50638232

Ion	Exp%	Act%
235.10	100.00	100.00
165.10	39.30	46.10
237.10	64.70	66.18
0.00	0.00	0.00

INSTRUMENT PERFORMANCE CHECK (TUNE)

367 of 521

SW8270E

Laboratory:	Enthalpy Analytical	Work Order:	25H0034
Client:	Draper Aden Associates - Blacksburg	Project:	HWMU 16
Lab File ID:	MS-SV04_25071913.D	Injection Date:	07/23/25
Instrument ID:	MS-SV04	Injection Time:	11:16
Sequence:	SIG1011	Lab Sample ID:	SIG1011-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	35.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	41.7	PASS
70	Less than 2% of 69	0.557	PASS
127	40 - 60% of 198	54.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.32	PASS
275	10 - 30% of 198	22.6	PASS
365	1 - 100% of 198	2.27	PASS
441	0.01 - 99.99% of 443	77.8	PASS
442	40 - 100% of 198	51.8	PASS
443	17 - 23% of 442	20	PASS

Samples Associated with Tune

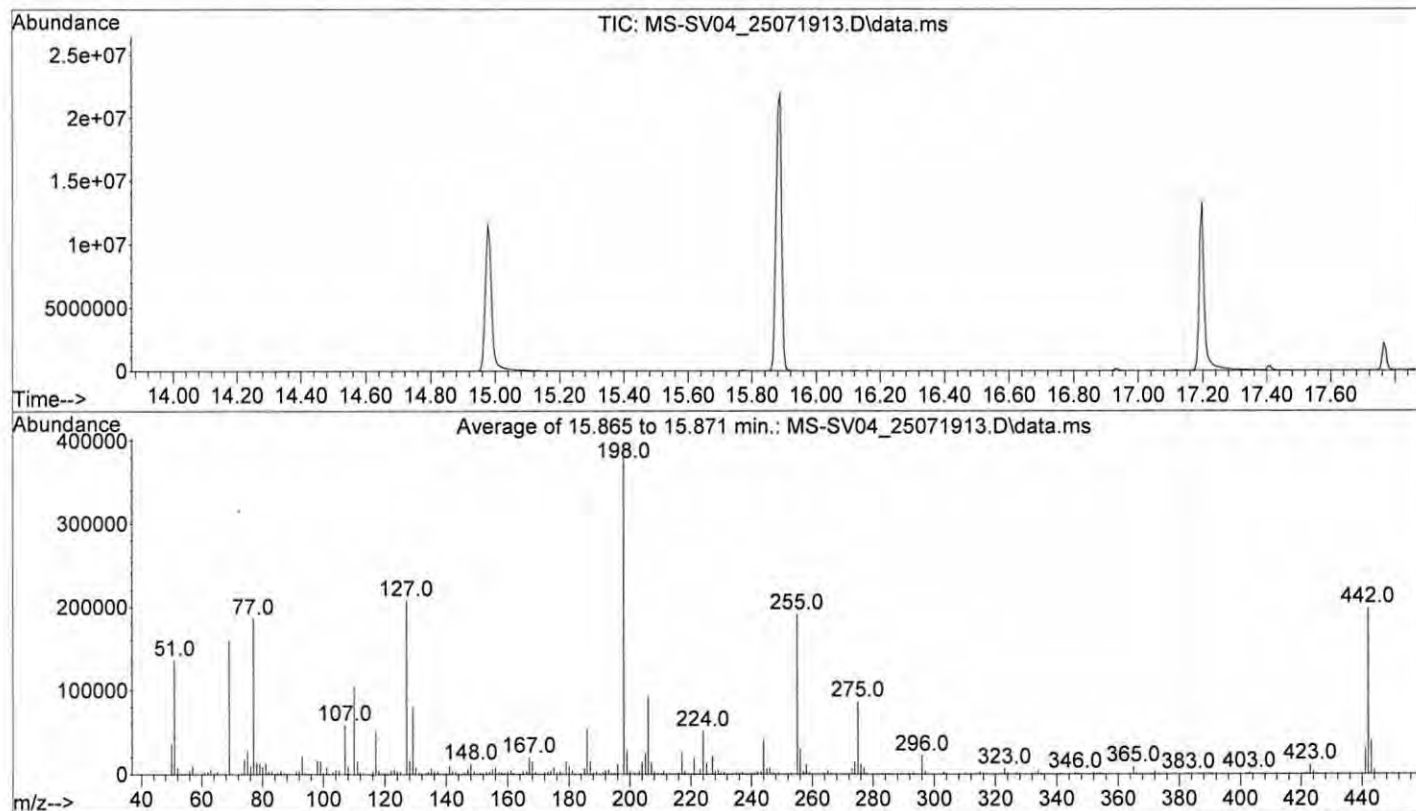
368 of 521

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	SIG1011-CAL1	MS-SV04_25071807.D	07/18/2025	17:13:00
Cal Standard	SIG1011-CAL2	MS-SV04_25071808.D	07/18/2025	17:42:00
Cal Standard	SIG1011-CAL3	MS-SV04_25071809.D	07/18/2025	18:10:00
Cal Standard	SIG1011-CAL4	MS-SV04_25071810.D	07/18/2025	18:40:00
Cal Standard	SIG1011-CAL5	MS-SV04_25071811.D	07/18/2025	19:08:00
Cal Standard	SIG1011-CAL6	MS-SV04_25071812.D	07/18/2025	19:37:00
Cal Standard	SIG1011-CAL7	MS-SV04_25071813.D	07/18/2025	20:06:00
Cal Standard	SIG1011-CAL8	MS-SV04_25071814.D	07/18/2025	20:35:00
Cal Standard	SIG1011-CAL9	MS-SV04_25071816.D	07/18/2025	21:31:00
Cal Standard	SIG1011-CALA	MS-SV04_25071817.D	07/18/2025	22:00:00
Cal Standard	SIG1011-CALB	MS-SV04_25071818.D	07/18/2025	22:28:00
Cal Standard	SIG1011-CALC	MS-SV04_25071819.D	07/18/2025	22:57:00
Cal Standard	SIG1011-CALD	MS-SV04_25071820.D	07/18/2025	23:25:00
Cal Standard	SIG1011-CALE	MS-SV04_25071821.D	07/18/2025	23:54:00
Cal Standard	SIG1011-CALF	MS-SV04_25071822.D	07/19/2025	0:22:00
Cal Standard	SIG1011-CALG	MS-SV04_25071823.D	07/19/2025	0:51:00
Initial Cal Check	SIG1011-ICV2	MS-SV04_25071824.D	07/19/2025	1:19:00
Cal Standard	SIG1011-CALI	MS-SV04_25071828.D	07/19/2025	3:12:00
Cal Standard	SIG1011-CALJ	MS-SV04_25071829.D	07/19/2025	3:40:00
Cal Standard	SIG1011-CALK	MS-SV04_25071830.D	07/19/2025	4:09:00
Cal Standard	SIG1011-CALL	MS-SV04_25071831.D	07/19/2025	4:37:00
Cal Standard	SIG1011-CALM	MS-SV04_25071832.D	07/19/2025	5:06:00
Cal Standard	SIG1011-CALN	MS-SV04_25071833.D	07/19/2025	5:34:00
Cal Standard	SIG1011-CALO	MS-SV04_25071834.D	07/19/2025	6:02:00
Initial Cal Check	SIG1011-ICV3	MS-SV04_25071835.D	07/19/2025	6:31:00
Cal Standard	SIG1011-CALP	MS-SV04_25071836.D	07/19/2025	6:59:00
Cal Standard	SIG1011-CALQ	MS-SV04_25071837.D	07/19/2025	7:27:00
Cal Standard	SIG1011-CALR	MS-SV04_25071838.D	07/19/2025	7:56:00
Cal Standard	SIG1011-CALS	MS-SV04_25071839.D	07/19/2025	8:24:00
Cal Standard	SIG1011-CALT	MS-SV04_25071840.D	07/19/2025	8:53:00
Cal Standard	SIG1011-CALU	MS-SV04_25071841.D	07/19/2025	9:21:00
Cal Standard	SIG1011-CALV	MS-SV04_25071842.D	07/19/2025	9:50:00
Cal Standard	SIG1011-CALW	MS-SV04_25071843.D	07/19/2025	10:18:00
Initial Cal Check	SIG1011-ICV4	MS-SV04_25071844.D	07/19/2025	10:46:00
Initial Cal Check	SIG1011-ICV1	MS-SV04_25071914.D	07/23/2025	13:50:00
Cal Standard	SIG1011-CALH	MS-SV04_25071915.D	07/23/2025	14:40:00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071913.D
Acq On : 23 Jul 2025 11:16 am
Operator : BMS
Sample : ~~SEQ-TUN1~~
Misc : ~~SEQ-TUN1~~ **SEQ-TUN3 HLT 07/24/25**
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\GCMS\1\methods\DFTPP_625.1.M
Title : DFTPP method
Last Update : Fri Jul 18 16:42:46 2025

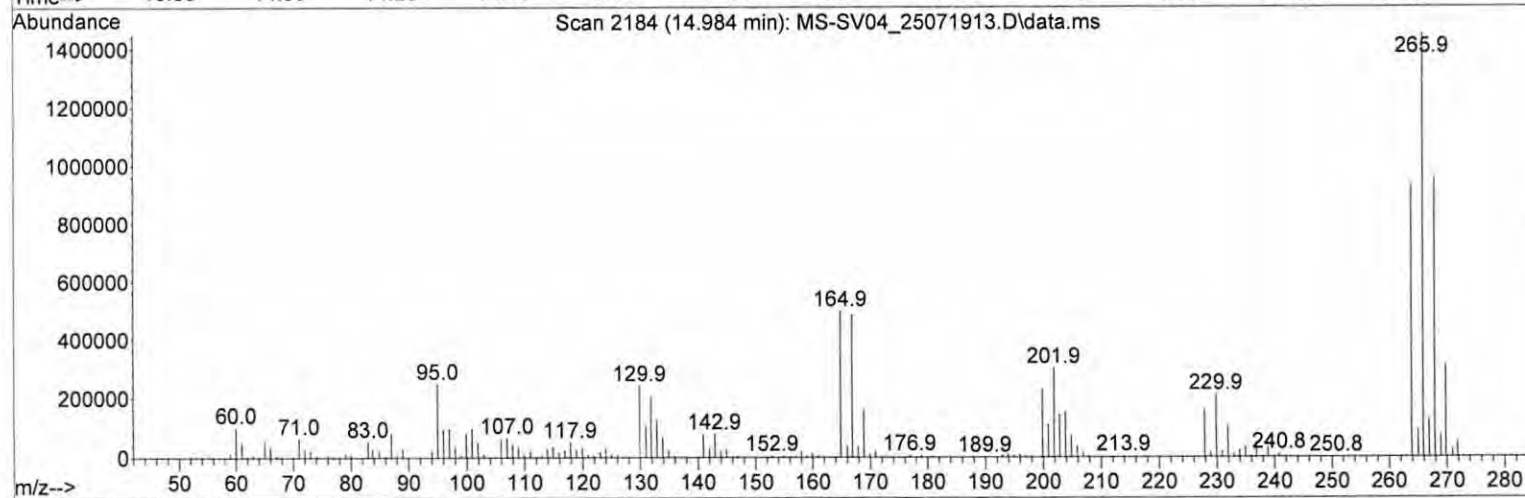
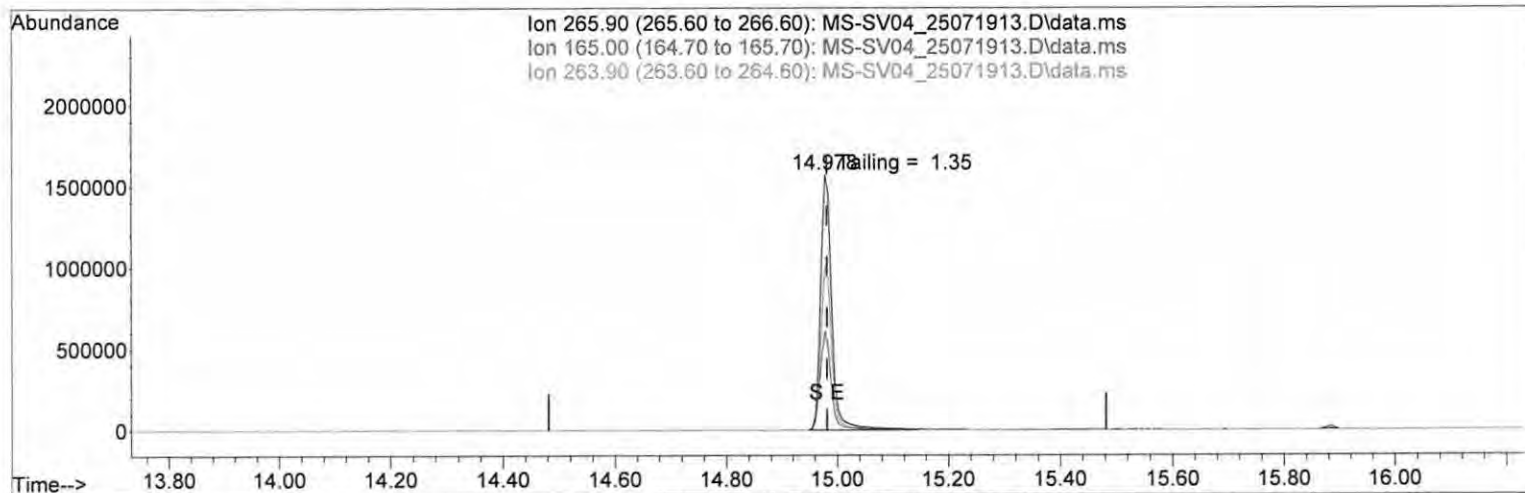


Spectrum Information: Average of 15.865 to 15.871 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.6	136244	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	200	41.7	159944	PASS
70	69	0.00	2	0.6	891	PASS
127	198	40	60	54.1	207428	PASS
197	198	0.00	1	0.0	0	PASS
198	198	1	100	100.0	383156	PASS
199	198	5	9	7.3	28037	PASS
275	198	10	30	22.6	86480	PASS
365	198	1	200	2.3	8715	PASS
441	443	0.01	100	77.8	30955	PASS
442	198	40	100	51.8	198576	PASS
443	442	17	23	20.0	39810	PASS

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071913.D
Acq On : 23 Jul 2025 11:16 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 13:23:36 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
QLast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071913.D\data.ms

(1) Pentachlorophenol

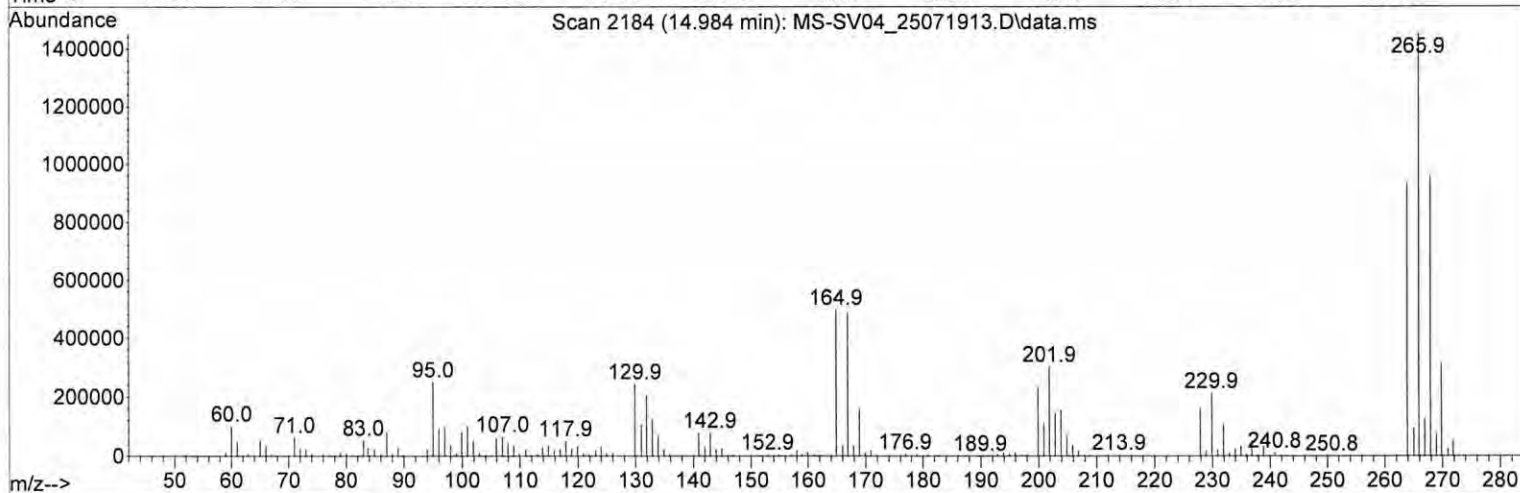
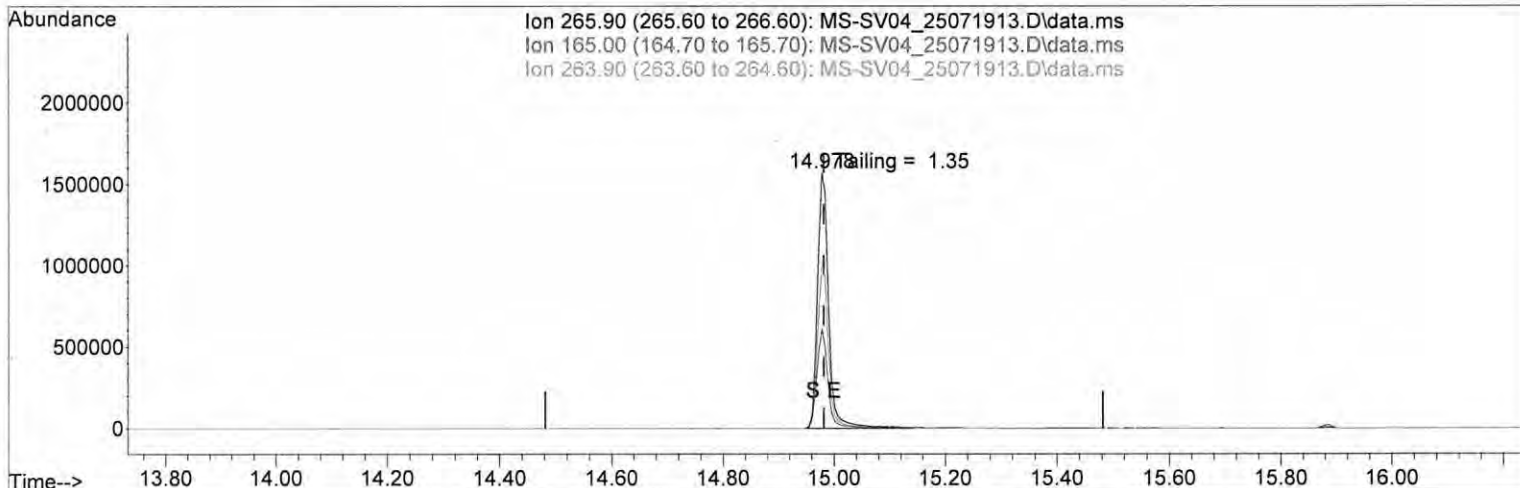
14.983min (+ 0.001) 130.82 ng/ul

response 21431677

Ion	Exp%	Act%
265.90	100.00	100.00
165.00	37.30	38.16
263.90	61.90	63.69
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071913.D
Acq On : 23 Jul 2025 11:16 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 13:23:36 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
QLast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071913.D\data.ms

(1) Pentachlorophenol

14.983min (+ 0.001) 130.82 ng/u1

response 21431677

Ion	Exp%	Act%
265.90	100.00	100.00
165.00	37.30	38.16
263.90	61.90	63.69
0.00	0.00	0.00

INSTRUMENT PERFORMANCE CHECK (TUNE)

372 of 521

SW8270E

Laboratory:	Enthalpy Analytical	Work Order:	25H0034
Client:	Draper Aden Associates - Blacksburg	Project:	HWMU 16
Lab File ID:	MS-SV04_25071846.D	Injection Date:	07/19/25
Instrument ID:	MS-SV04	Injection Time:	11:43
Sequence:	SIG1016	Lab Sample ID:	SIG1016-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	37.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	43.9	PASS
70	Less than 2% of 69	0.591	PASS
127	40 - 60% of 198	53.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.18	PASS
275	10 - 30% of 198	22	PASS
365	1 - 100% of 198	2.1	PASS
441	0.01 - 99.99% of 443	72.2	PASS
442	40 - 100% of 198	43.6	PASS
443	17 - 23% of 442	21.6	PASS

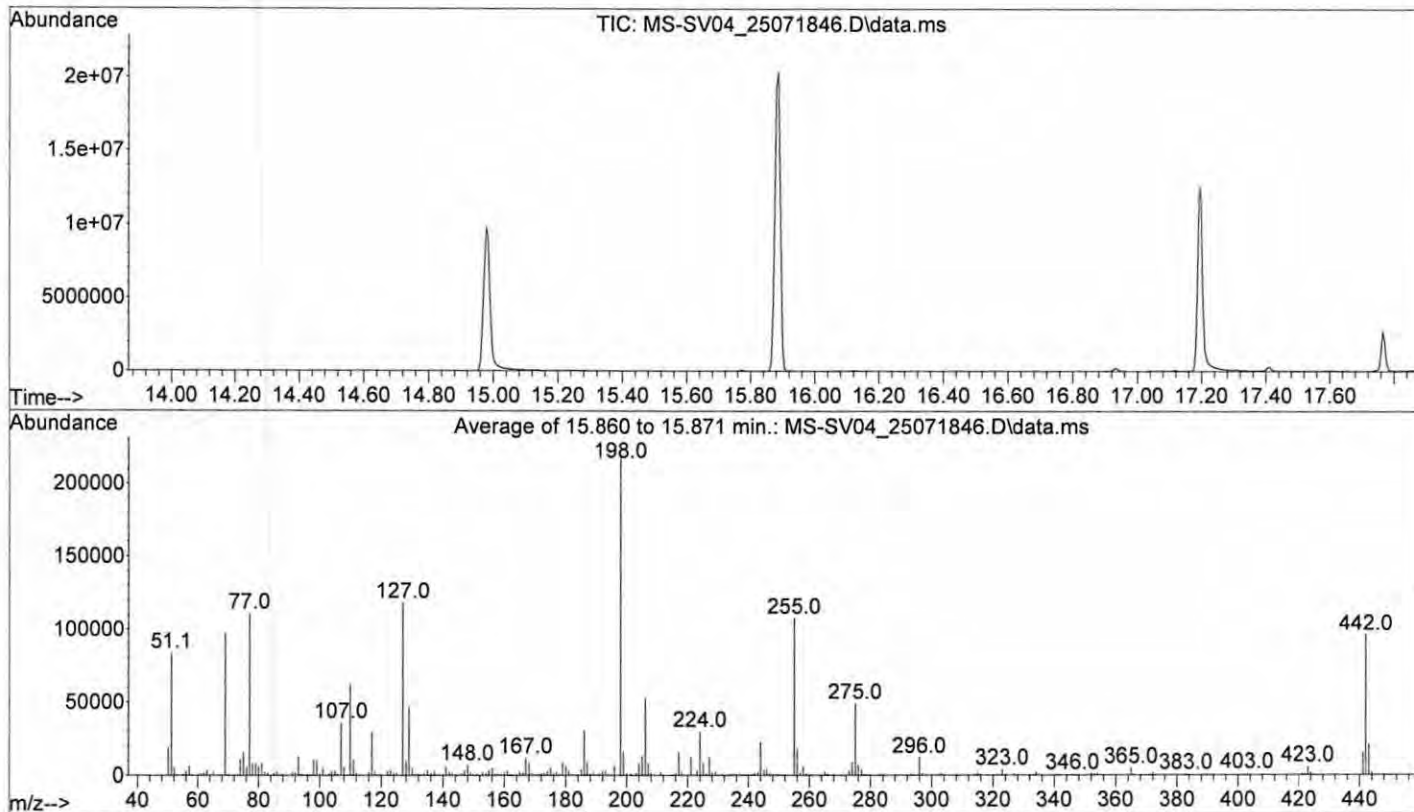
Samples Associated with Tune

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
Cal Standard	SIG1016-CAL1	MS-SV04_25071847.D	07/19/2025	12:11:00
Cal Standard	SIG1016-CAL2	MS-SV04_25071848.D	07/19/2025	12:40:00
Cal Standard	SIG1016-CAL3	MS-SV04_25071849.D	07/19/2025	13:08:00
Cal Standard	SIG1016-CAL4	MS-SV04_25071850.D	07/19/2025	13:37:00
Cal Standard	SIG1016-CAL5	MS-SV04_25071851.D	07/19/2025	14:05:00
Cal Standard	SIG1016-CAL6	MS-SV04_25071852.D	07/19/2025	14:34:00
Cal Standard	SIG1016-CAL7	MS-SV04_25071853.D	07/19/2025	15:03:00
Cal Standard	SIG1016-CAL8	MS-SV04_25071854.D	07/19/2025	15:32:00
Initial Cal Check	SIG1016-ICV1	MS-SV04_25071855.D	07/19/2025	16:01:00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071846.D
Acq On : 19 Jul 2025 11:43 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\GCMS\1\methods\DFTPP_625.1.M
Title : DFTPP method
Last Update : Fri Jul 18 16:42:46 2025

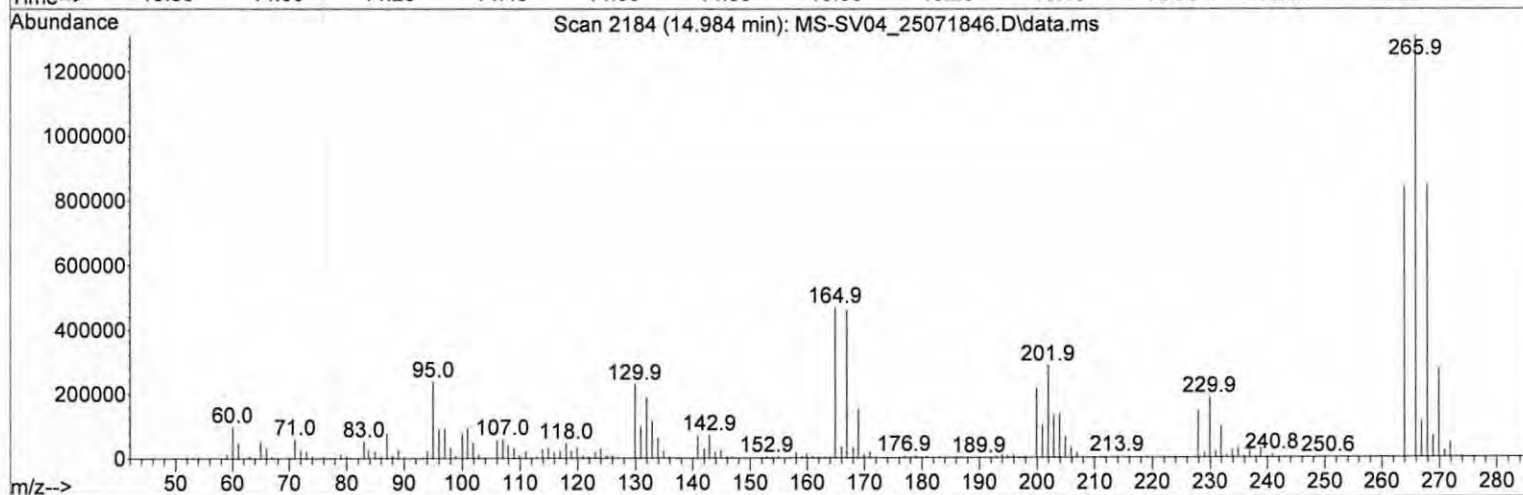
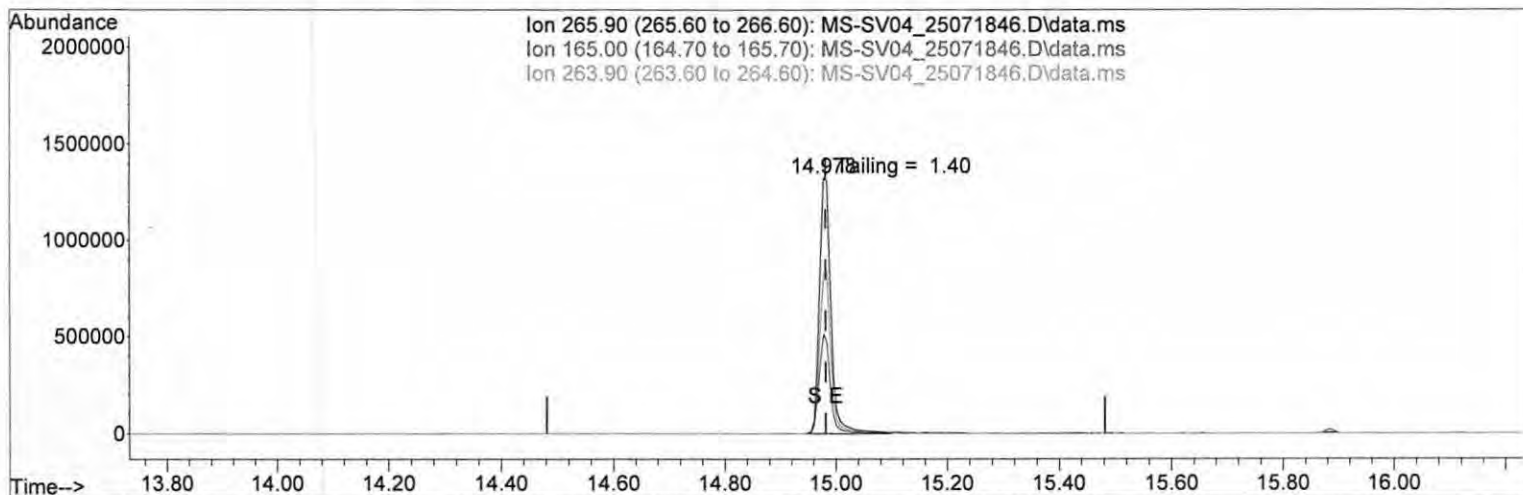


Spectrum Information: Average of 15.860 to 15.871 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	83492	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	200	43.9	96763	PASS
70	69	0.00	2	0.6	572	PASS
127	198	40	60	53.6	118008	PASS
197	198	0.00	1	0.0	0	PASS
198	198	1	100	100.0	220261	PASS
199	198	5	9	7.2	15814	PASS
275	198	10	30	22.0	48406	PASS
365	198	1	200	2.1	4620	PASS
441	443	0.01	100	72.2	14985	PASS
442	198	40	100	43.6	95935	PASS
443	442	17	23	21.6	20758	PASS

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071846.D
Acq On : 19 Jul 2025 11:43 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:45:57 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
QLast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071846.D\data.ms

(1) Pentachlorophenol

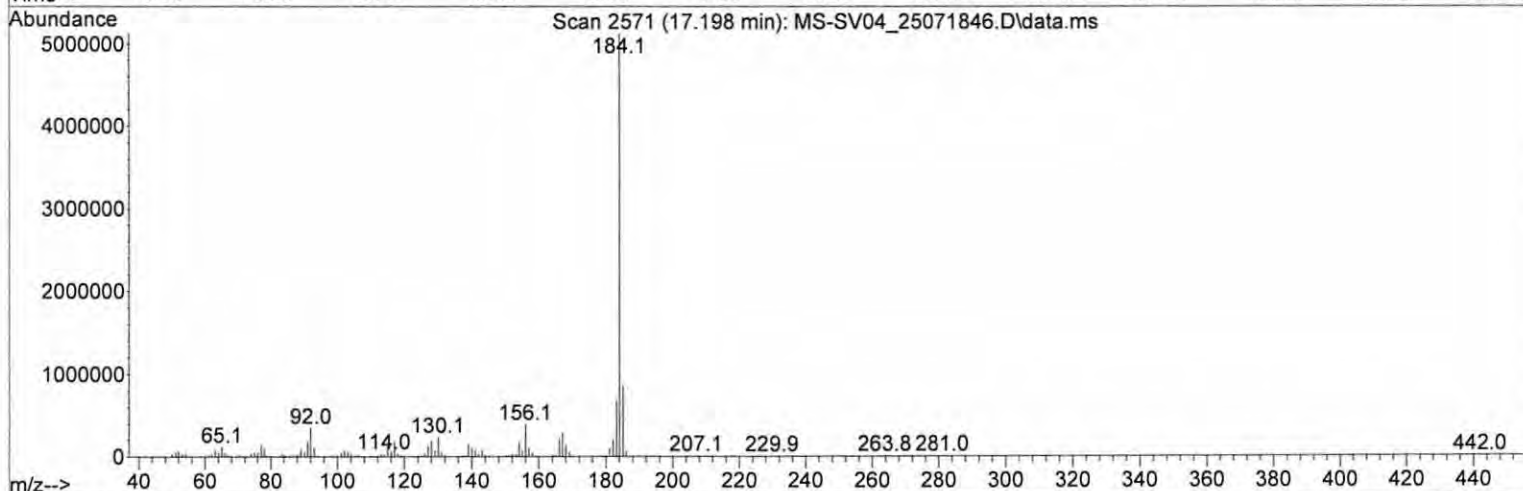
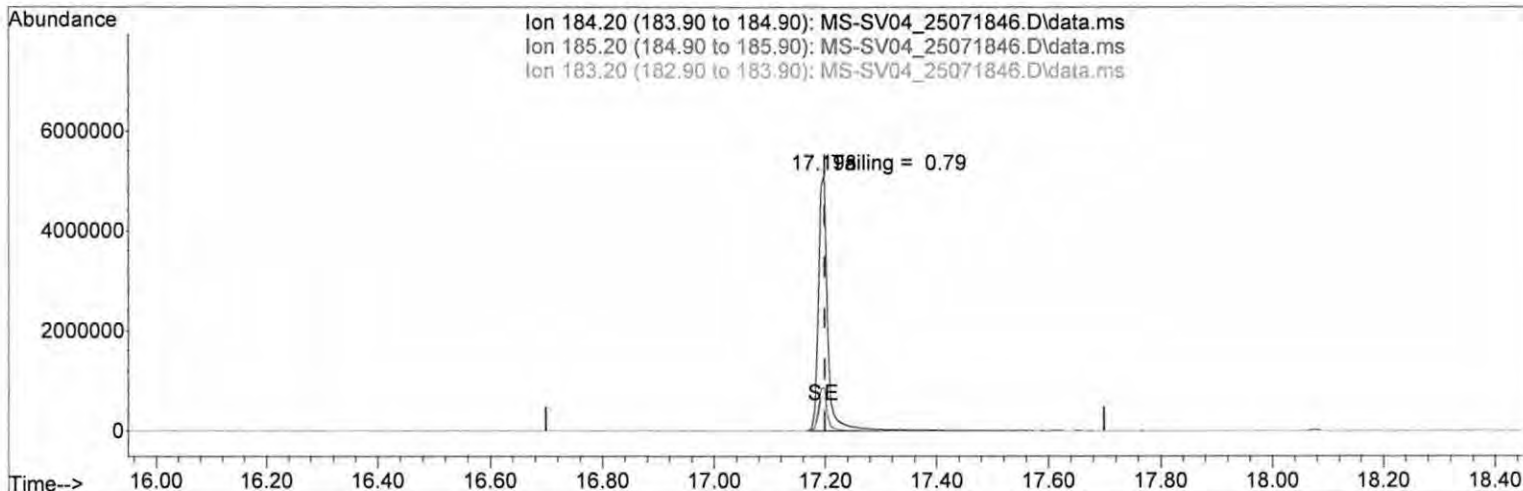
14.983min (+ 0.001) 114.40 ng/u1

response 18741027

Ion	Exp%	Act%
265.90	100.00	100.00
165.00	37.30	37.80
263.90	61.90	62.82
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071846.D
Acq On : 19 Jul 2025 11:43 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:45:57 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
QLast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071846.D\data.ms

(3) Benzdine

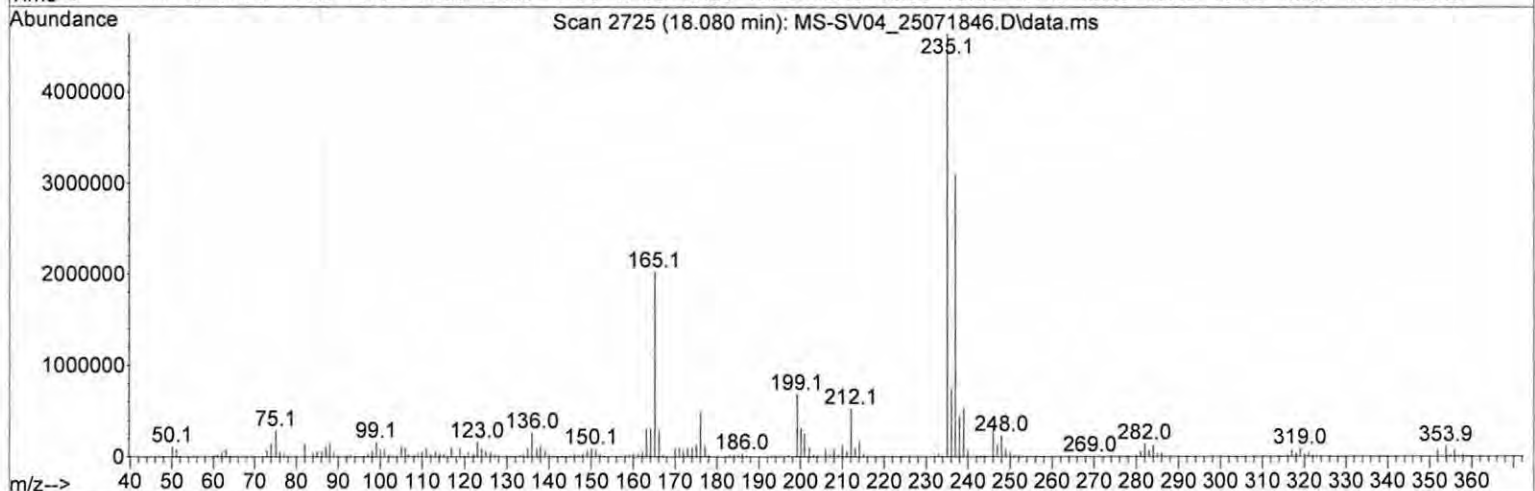
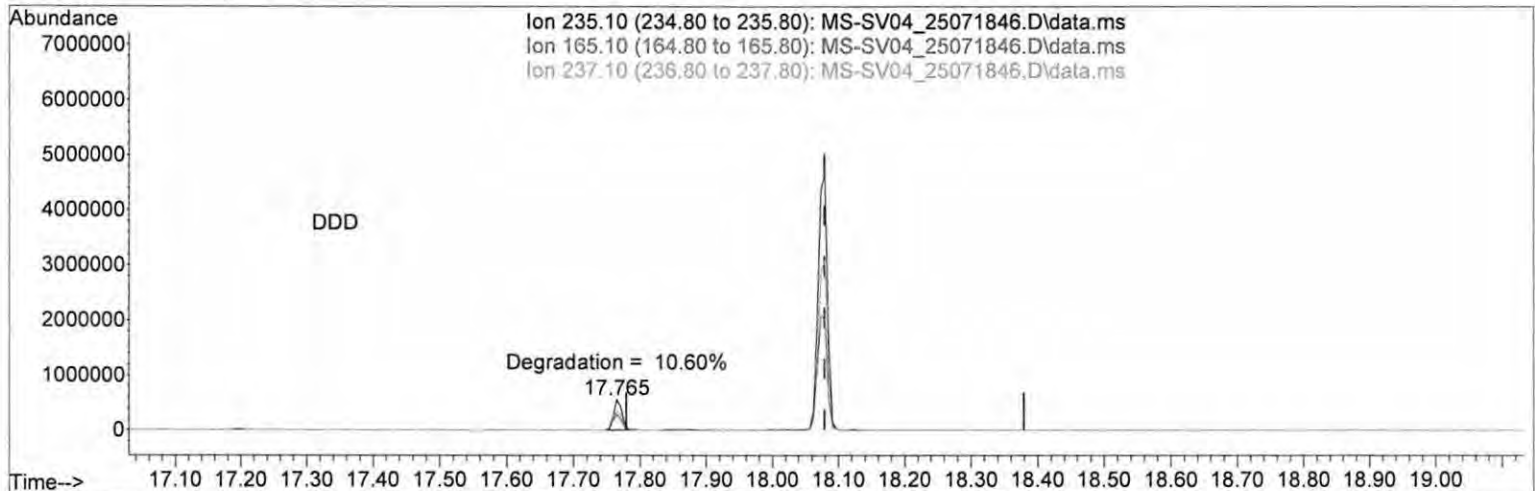
17.198min (-0.001) 95.48 ng/ul

response 57669069

Ion	Exp%	Act%
184.20	100.00	100.00
185.20	14.10	16.63
183.20	12.20	12.71
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071846.D
Acq On : 19 Jul 2025 11:43 am
Operator : BMS
Sample : SEQ-TUN1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 16:45:57 2025
Quant Method : C:\GCMS\1\methods\DFTPP_625.1.M
Quant Title : DFTPP method
Qlast Update : Fri Jul 18 16:42:46 2025
Response via : Initial Calibration



TIC: MS-SV04_25071846.D\data.ms

(6) DDT

18.079min (-0.000) 111.05 ng/ul

response 45198755

Ion	Exp%	Act%
235.10	100.00	100.00
165.10	39.30	45.99
237.10	64.70	65.45
0.00	0.00	0.00

INITIAL CALIBRATION VERIFICATION

377 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25071914.D Calibration Date: 07/18/25 08:00
Sequence: SIG1011 Injection Date: 07/23/25
Lab Sample ID: SIG1011-ICV1 Injection Time: 13:50

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
1,2,4-Trichlorobenzene	A	40.0	40.9	37.9324	38.77113	102	80	120
1,2-Dichlorobenzene	A	40.0	39.9	142.9936	142.64	99.8	80	120
1,2-Diphenylhydrazine	A	40.0	36.4	104.9549	95.38904	90.9	80	120
1,3-Dichlorobenzene	A	40.0	40.4	150.3285	151.7882	101	80	120
1,4-Dichlorobenzene	A	40.0	39.9	146.8134	146.4732	99.8	80	120
2,3,4,6-Tetrachlorophenol	L	40.0	44.1	26.85785	35.0422	110	80	120
2,4,5-Trichlorophenol	A	40.0	47.5	33.53044	39.80631	119	80	120
2,4,6-Trichlorophenol	A	40.0	46.9	33.82339	39.63371	117	80	120
2,4-Dichlorophenol	A	40.0	43.1	30.09763	32.46254	108	80	120
2,4-Dimethylphenol	A	40.0	39.5	32.21199	31.81787	98.8	80	120
2,4-Dinitrophenol	L	40.0	55.9	5.150357	12.746	140	80	120
2,4-Dinitrotoluene	L	40.0	43.9	32.96101	40.24397	110	80	120
2,6-Dinitrotoluene	A	40.0	46.2	28.59443	33.04556	116	80	120
2-Chloronaphthalene	A	40.0	40.1	111.7926	111.9974	100	80	120
2-Chlorophenol	A	40.0	40.8	126.9091	129.2911	102	80	120
2-Methylnaphthalene	A	40.0	39.4	71.57006	64.80205	98.4	80	120
2-Nitroaniline	L	40.0	41.0	21.28346	24.77221	102	80	120
2-Nitrophenol	L	40.0	45.3	15.48566	20.34752	113	80	120
3-Nitroaniline	A	40.0	45.5	25.36765	28.839	114	80	120
4,6-Dinitro-2-methylphenol	L	40.0	54.6	10.32703	21.29165	136	80	120
4-Bromophenyl phenyl ether	A	40.0	43.5	25.9407	28.19939	109	80	120
4-Chloroaniline	A	40.0	40.3	40.62422	40.97321	101	80	120
4-Chlorophenyl phenyl ether	A	40.0	41.3	65.72132	67.80792	103	80	120
4-Nitroaniline	L	40.0	39.9	17.54667	19.50837	99.6	80	120
4-Nitrophenol	L	40.0	36.8	11.02265	13.22915	92.0	80	120
Acenaphthene	A	40.0	38.8	115.6824	102.2479	97.0	80	120
Acenaphthylene	A	40.0	38.9	164.3588	168.0069	97.2	80	120
Aniline	A	40.0	39.6	166.5402	164.7645	98.9	80	120
Anthracene	A	40.0	38.3	106.9532	100.808	95.8	80	120
Benzo (a) anthracene	A	40.0	40.0	140.0542	120.2641	100	80	120
Benzo (a) pyrene	L	40.0	44.1	79.86335	109.1816	110	80	120

INITIAL CALIBRATION VERIFICATION

378 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25071914.D Calibration Date: 07/18/25 08:00
Sequence: SIG1011 Injection Date: 07/23/25
Lab Sample ID: SIG1011-ICV1 Injection Time: 13:50

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
Benzo (b) fluoranthene	A	40.0	42.4	91.32467	111.2641	106	80	120
Benzo (g,h,i) perylene	A	40.0	41.7	84.50899	96.7243	104	80	120
Benzo (k) fluoranthene	A	40.0	41.3	109.6477	118.5717	103	80	120
Benzoic acid	L	40.0	45.8	11.13173	15.17175	114	80	120
Benzyl alcohol	A	40.0	41.1	73.65944	75.63244	103	80	120
bis (2-Chloroethoxy) methane	A	40.0	37.1	40.3935	37.45468	92.7	80	120
bis (2-Chloroethyl) ether	A	40.0	38.1	118.1956	112.5102	95.2	80	120
2,2'-Oxybis (1-chloropropane)	A	40.0	39.3	46.89924	46.03556	98.2	80	120
bis (2-Ethylhexyl) phthalate	L	40.0	40.0	72.53816	81.04596	100	80	120
Butyl benzyl phthalate	L	40.0	43.6	50.3793	64.55021	109	80	120
Chrysene	A	40.0	39.0	131.9259	115.3436	97.6	80	120
Dibenz (a,h) anthracene	A	40.0	42.0	76.02293	93.09167	105	80	120
Dibenzofuran	A	40.0	39.8	149.396	148.6066	99.5	80	120
Diethyl phthalate	A	40.0	40.4	125.3183	126.5689	101	80	120
Dimethyl phthalate	A	40.0	40.1	129.0727	129.5369	100	80	120
Di-n-butyl phthalate	A	40.0	38.3	111.7294	107.0172	95.8	80	120
Di-n-octyl phthalate	L	40.0	38.9	94.94236	122.3302	97.2	80	120
Fluoranthene	A	40.0	36.4	108.6768	101.9681	90.9	80	120
Fluorene	A	40.0	40.0	120.0614	125.1731	100	80	120
Hexachlorobenzene	A	40.0	43.5	32.15827	34.58659	109	80	120
Hexachlorobutadiene	A	40.0	42.5	24.29315	25.81933	106	80	120
Hexachlorocyclopentadiene	L	40.0	44.2	12.12105	17.22058	111	80	120
Hexachloroethane	A	40.0	40.6	54.936	55.82001	102	80	120
Indeno (1,2,3-cd) pyrene	A	40.0	41.2	97.85816	118.028	103	80	120
Isophorone	A	40.0	37.1	67.10928	62.29719	92.8	80	120
m+p-Cresols	A	40.0	37.2	114.7535	106.6036	92.9	80	120
Naphthalene	A	40.0	36.8	119.3478	96.17489	92.0	80	120
Nitrobenzene	A	40.0	38.3	90594.91	88060.13	95.8	80	120
n-Nitrosodimethylamine	A	40.0	38.5	55596.55	54508.83	96.3	80	120
n-Nitrosodi-n-propylamine	A	40.0	36.7	59424.4	55301.33	91.7	80	120
n-Nitrosodiphenylamine	A	40.0	40.9	104.2043	106.6274	102	80	120

INITIAL CALIBRATION VERIFICATION

379 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25071914.D Calibration Date: 07/18/25 08:00
Sequence: SIG1011 Injection Date: 07/23/25
Lab Sample ID: SIG1011-ICV1 Injection Time: 13:50

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
o-Cresol	A	40.0	38.6	108.4188	104.7095	96.6	80	120
p-Chloro-m-cresol	A	40.0	41.4	28.56399	29.53455	103	80	120
Pentachlorophenol	L	40.0	45.1	11.49335	16.55408	113	80	120
Phenanthrene	A	40.0	37.0	120.8841	100.0078	92.6	80	120
Phenol	A	40.0	38.2	151.9766	145.0639	95.4	80	120
Pyrene	A	40.0	38.0	143.3391	141.0055	95.1	80	120
Pyridine	A	40.0	42.3	120.7445	127.7173	106	80	120
2,4,6-Tribromophenol (Surr)	L	40.0	43.2	12.88479	17.01817	108	80	120
2-Fluorobiphenyl (Surr)	A	40.0	38.5	143.0714	137.7214	96.2	80	120
2-Fluorophenol (Surr)	A	40.0	41.2	129.4303	133.4031	103	80	120
Nitrobenzene-d5 (Surr)	A	40.0	39.4	114.9985	113.4111	98.6	80	120
Phenol-d5 (Surr)	A	40.0	38.2	139.5705	133.3081	95.5	80	120
p-Terphenyl-d14 (Surr)	A	40.0	41.5	116.5608	120.8541	104	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071914.D
 Acq On : 23 Jul 2025 01:50 pm
 Operator : BMS
 Sample : SEQ-ICV1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

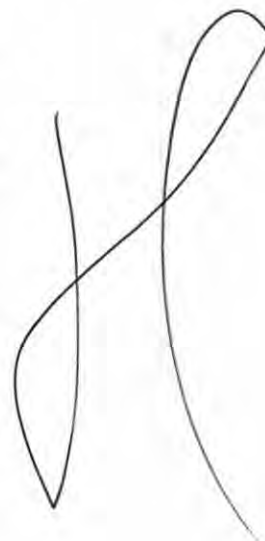
Quant Time: Jul 23 15:13:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 10:30:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.218	152	3315958	40.00	ug/ml	0.00
21) Naphthalene-d8	8.266	136	10376875	40.00	ug/ml	0.00
36) Acenaphthene-d10	11.997	164	6287541	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.322	188	9729707	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.566	240	7198314	40.00	ug/ml	0.00
81) Perylene-d12	19.951	264	7134051	40.00	ug/ml	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	4.713	112	4423592	41.23	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	41.23%		
5) Phenol-d5	5.760	99	4420439	38.21	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	38.21%#		
19) Nitrobenzene-d5	7.025	82	3760666	39.45	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	78.90%		
39) 2-Fluorobiphenyl	10.504	172	8659288	38.50	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	77.00%		
64) 2,4,6-Tribromophenol	13.845	330	1655818	43.23	ug/ml	0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	43.23%		
75) p-Terphenyl-d14	17.479	244	8699458	41.47	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	82.94%		

Target Compounds				Qvalue		
2) Pyridine	3.208	79	4235052m	42.31	ug/ml	
3) N-Nitrosodimethylamine	3.214	74	2180353	38.51	ug/ml#	95
6) Aniline	5.823	93	5463523	39.57	ug/ml#	90
7) Phenol	5.777	94	4810259	38.18	ug/ml#	86
8) Bis (2-chloroethyl) ether	5.892	93	3730790	38.08	ug/ml#	73
9) 2-Chlorophenol	5.955	128	4287237	40.75	ug/ml#	89
10) 1,3-Dichlorobenzene	6.144	146	5033232	40.39	ug/ml	97
11) 1,4-Dichlorobenzene	6.241	146	4856990	39.91	ug/ml	99
12) Benzyl alcohol	6.401	108	2507940	41.07	ug/ml	96
13) 1,2-Dichlorobenzene	6.447	146	4729884	39.90	ug/ml	97
14) o-Cresol	6.544	108	3472122	38.63	ug/ml	93
15) Bis (2-chloroisopropyl)...	6.596	121	1526520	39.26	ug/ml#	84
16) p-Cresol	6.784	107	3534929	37.16	ug/ml	95
17) N-nitrosodi-n-propyl a...	6.802	70	2212053	36.67	ug/ml#	91
18) Hexachloroethane	6.950	117	1850968	40.64	ug/ml	87
20) Nitrobenzene	7.059	77	3522405	38.33	ug/ml#	67
22) Isophorone	7.454	82	6464505	37.13	ug/ml	94
23) 2-Nitrophenol	7.580	139	2111438	45.26	ug/ml#	88
24) 2,4-Dimethylphenol	7.654	122	3301702	39.51	ug/ml	93
25) Bis (2-chloroethoxy) m...	7.832	93	3886627	37.09	ug/ml#	96
26) 2,4-Dichlorophenol	8.003	162	3368599	43.14	ug/ml	99
27) 1,2,4-Trichlorobenzene	8.163	180	4023234	40.88	ug/ml	96
28) Benzoic acid	7.849	105	1574354	45.77	ug/ml#	87
29) Naphthalene	8.306	128	9979953	36.81	ug/ml	99
30) 4-Chloroaniline	8.409	127	4251741	40.34	ug/ml	95
31) Hexachlorobutadiene	8.547	225	2679241	42.51	ug/ml	99
32) p-Chloro-m-cresol	9.388	107	3064765	41.36	ug/ml	94



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071914.D
 Acq On : 23 Jul 2025 01:50 pm
 Operator : BMS
 Sample : SEQ-ICV1
 Misc : SVOC
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 10:30:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.691	142	6724431	39.36	ug/ml	98
34) 1-Methylnaphthalene	9.897	142	6917622	39.03	ug/ml	96
35) Hexachlorocyclopentadiene	10.029	237	1786959	44.25	ug/ml#	98
37) 2,4,6-Trichlorophenol	10.304	196	2491986	46.87	ug/ml	99
38) 2,4,5-Trichlorophenol	10.372	198	2502838	47.49	ug/ml	99
40) 2-Chloronaphthalene	10.738	162	7041882	40.07	ug/ml#	98
41) 2-Nitroaniline	10.984	65	1557563	41.00	ug/ml#	71
42) 1,4-Dinitrobenzene	11.322	75	1167514	42.28	ug/ml#	38
43) 1,2-Dinitrobenzene	11.677	168	948046	46.22	ug/ml	95
44) Dimethyl phthalate	11.465	163	8144686	40.14	ug/ml#	97
45) Acenaphthylene	11.665	152	10563501	38.86	ug/ml	99
46) 2,6-Dinitrotoluene	11.574	165	2077753	46.23	ug/ml#	85
47) 1,3-Dinitrobenzene	11.494	168	1484307	45.38	ug/ml#	61
48) 3-Nitroaniline	11.940	138	1813264	45.47	ug/ml#	85
49) Acenaphthene	12.072	154	6428880	38.78	ug/ml	99
50) 2,4-Dinitrophenol	12.180	184	801410	55.93	ug/ml#	81
51) Dibenzofuran	12.472	168	9343699	39.79	ug/ml	99
52) 4-Nitrophenol	12.386	109	831788	36.82	ug/ml#	85
53) 2,4-Dinitrotoluene	12.495	165	2530356	43.92	ug/ml#	89
54) 2,3,5,6-Tetrachlorophenol	12.672	232	2181326m	44.51	ug/ml	
55) 2,3,4,6-Tetrachlorophenol	12.775	232	2203293	44.07	ug/ml	93
56) Diethyl phthalate	13.124	149	7958072	40.40	ug/ml	92
57) Fluorene	13.279	166	7870309	40.02	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.319	204	4263451	41.27	ug/ml	98
59) 4-Nitroaniline	13.359	138	1226597	39.86	ug/ml	87
60) 4,6-Dinitro-2-methylph...	13.445	198	1338721	54.60	ug/ml#	66
61) N-Nitrosodiphenylamine	13.617	169	6704243	40.93	ug/ml	96
62) Azobenzene	13.697	77	5997625	36.35	ug/ml#	87
65) 4-Bromophenyl phenyl e...	14.475	248	2743718	43.48	ug/ml	96
66) Hexachlorobenzene	14.566	284	3365174	43.46	ug/ml#	89
67) Pentachlorophenol	14.990	266	1610663	45.12	ug/ml	99
68) Phenanthrene	15.368	178	9730467	37.05	ug/ml	100
69) Anthracene	15.453	178	9808320	38.31	ug/ml	99
70) Carbazole	15.734	167	9410610	43.92	ug/ml	99
71) Di-n-butyl phthalate	16.294	149	10412458	38.31	ug/ml	97
72) Fluoranthene	17.033	202	9921198	36.35	ug/ml	99
74) Pyrene	17.296	202	10150017	38.04	ug/ml	99
76) Butyl benzyl phthalate	17.988	149	4646527m	43.57	ug/ml	
77) Bis (2-ethylhexyl) adi...	18.057	129	3711375	41.99	ug/ml#	78
78) Benzo (a) anthracene	18.555	228	8656991	40.04	ug/ml	99
79) Chrysene	18.589	228	8302793	39.04	ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.538	149	5833943	39.98	ug/ml#	91
82) Di-n-octyl phthalate	19.121	149	8727100	38.89	ug/ml#	86
83) Benzo (b) fluoranthene	19.556	252	7937641	42.35	ug/ml	98
84) Benzo (k) fluoranthene	19.585	252	8458965	41.29	ug/ml#	96
85) Benzo (a) pyrene	19.894	252	7789072	44.06	ug/ml#	95
86) Indeno (1,2,3-cd) pyrene	21.250	276	8420180	41.24	ug/ml#	82
87) Dibenz (a,h) anthracene	21.255	278	6641207	42.01	ug/ml#	93
88) Benzo (g,h,i) perylene	21.639	276	6900361	41.69	ug/ml#	89

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

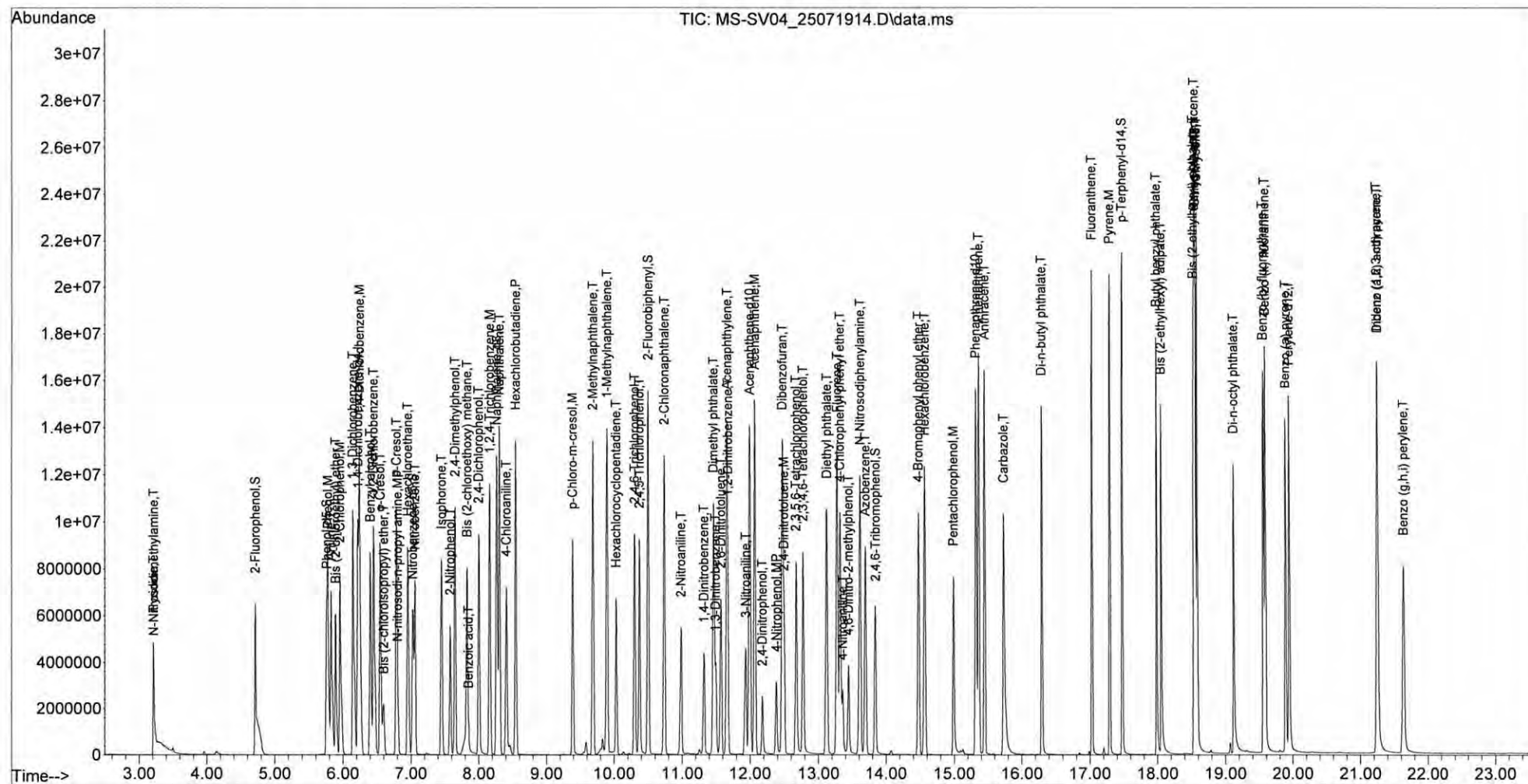
Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

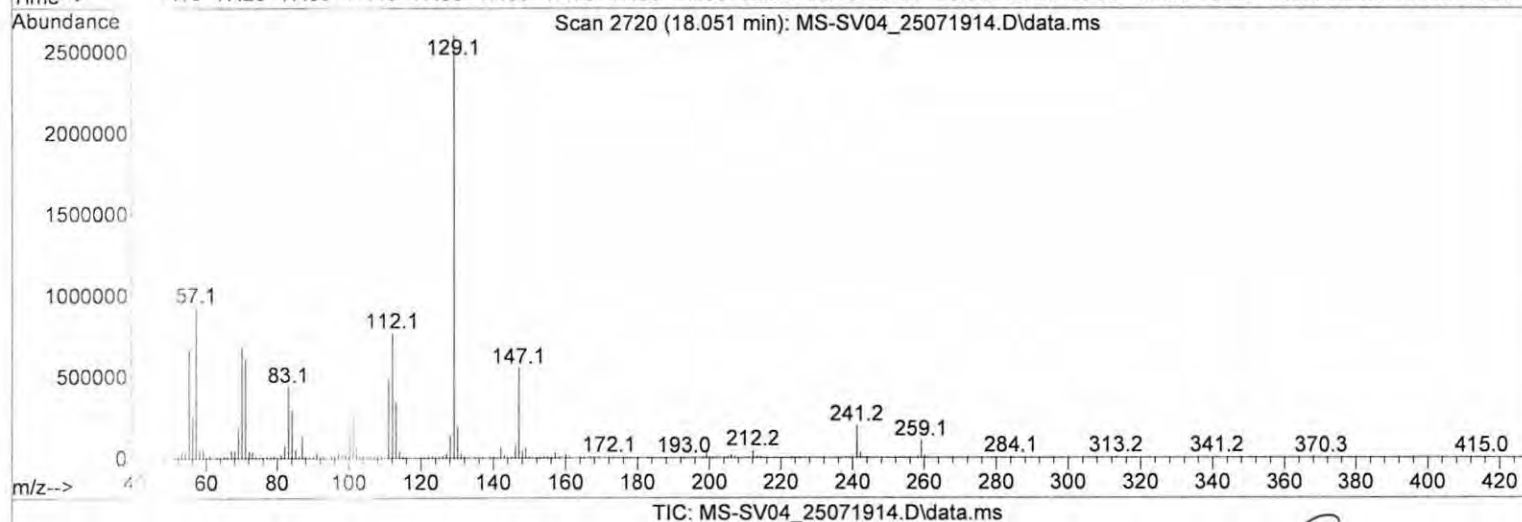
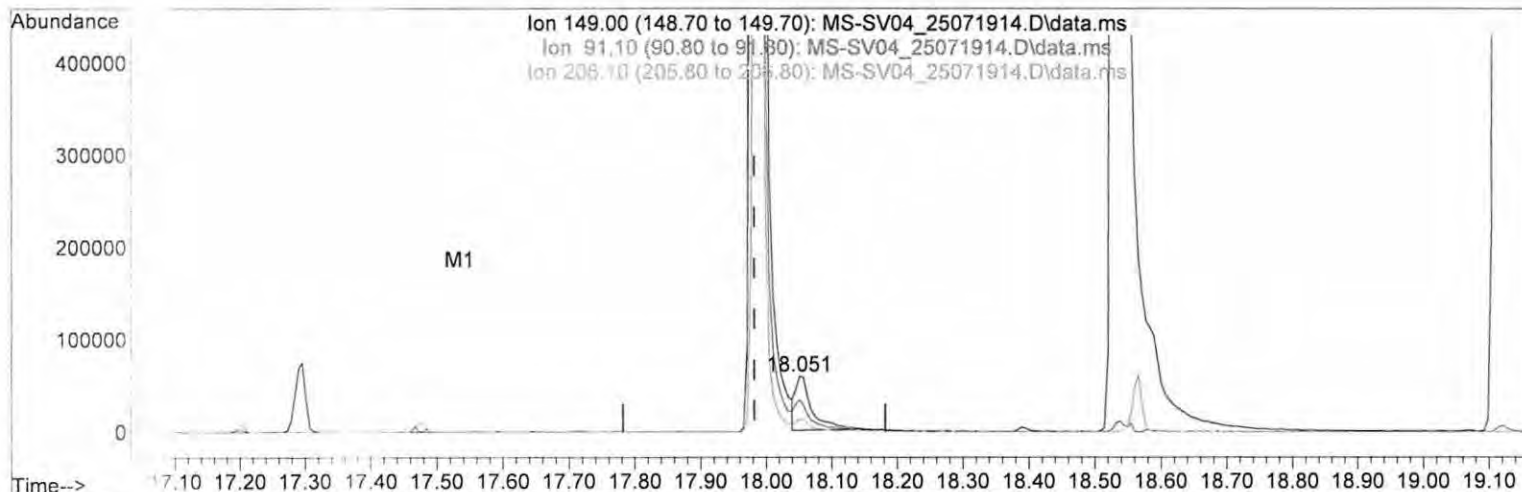
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



76) Butyl benzyl phthalate (T)

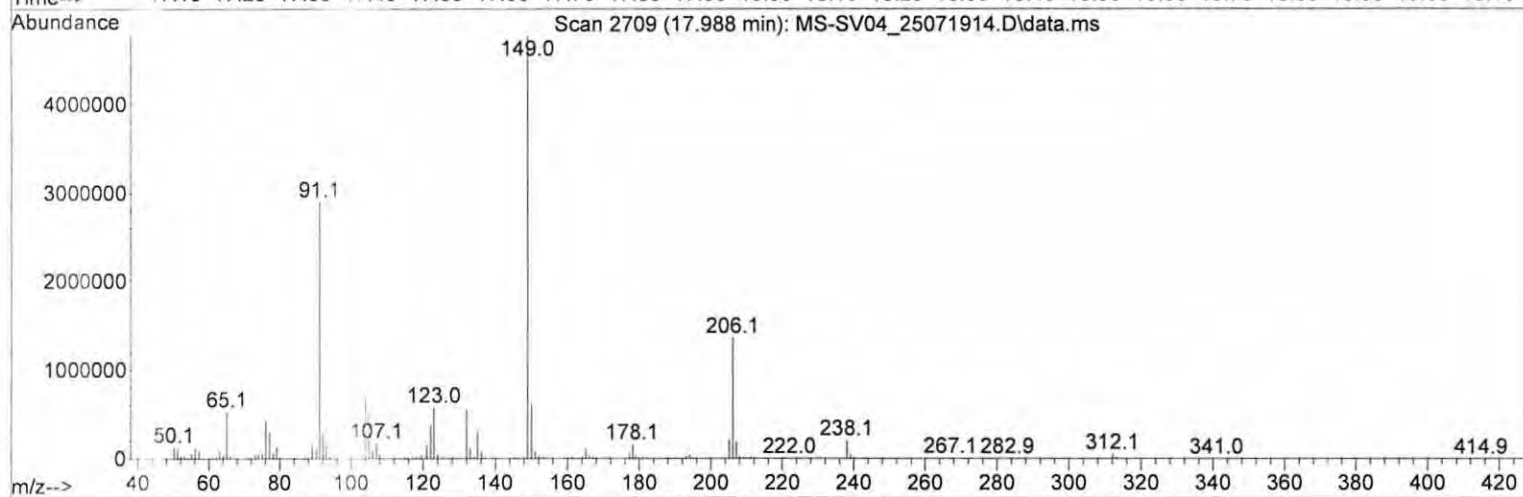
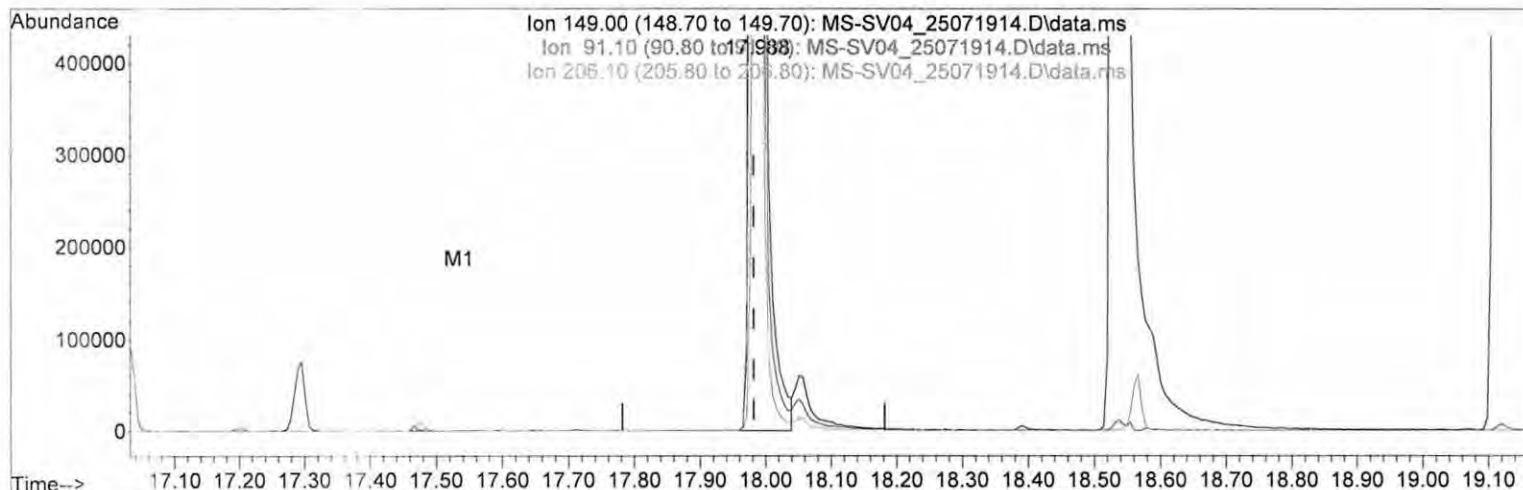
18.051min (+ 0.069) 2.74 ug/ml

Response 101747

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	56.86
206.10	20.30	23.36
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



TIC: MS-SV04_25071914.D\data.ms

(76) Butyl benzyl phthalate (T)

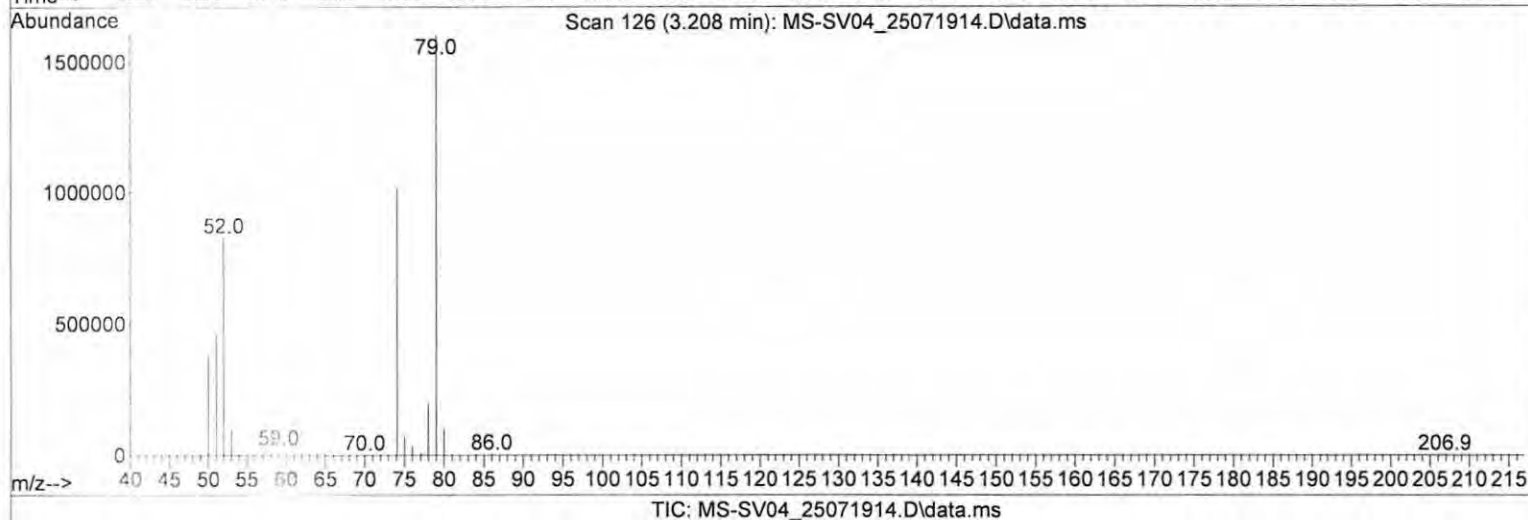
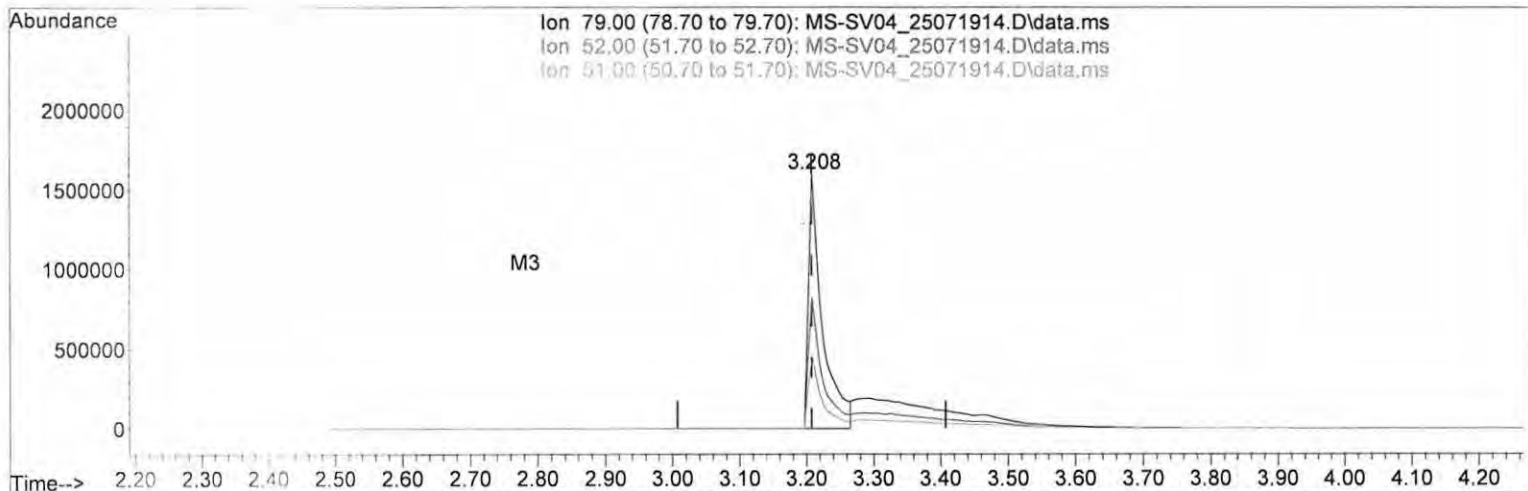
17.988min (+ 0.006) 43.57 ug/ml m

response 4646527

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	1.24#
206.10	20.30	0.51#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(2) Pyridine (T)

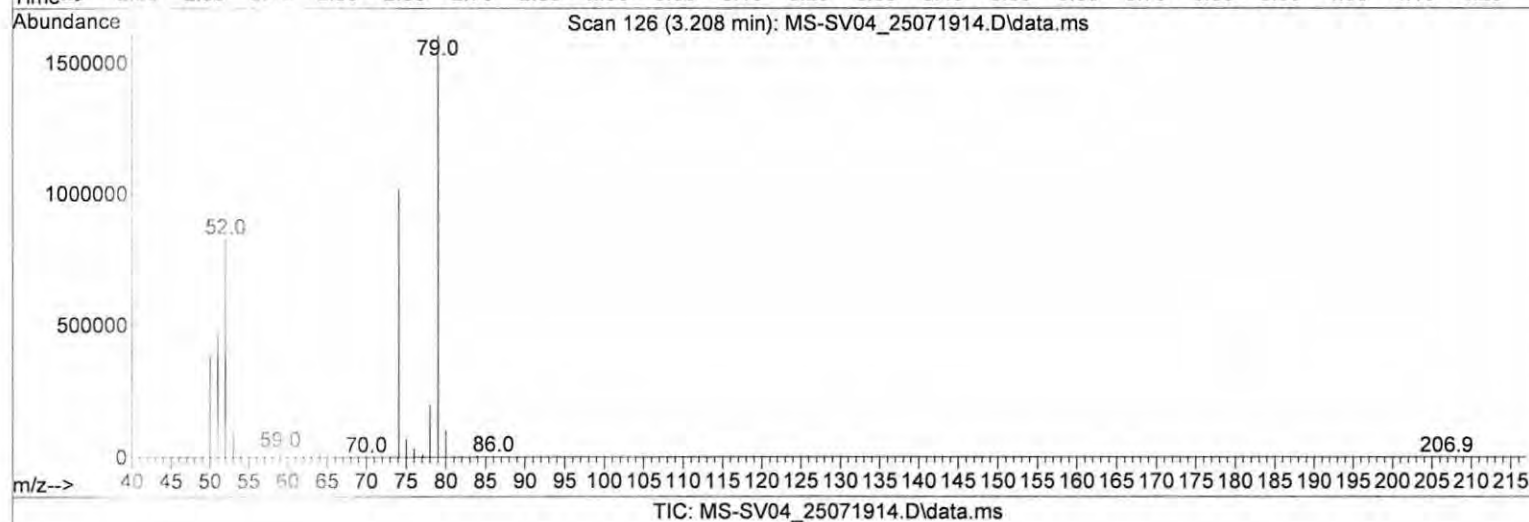
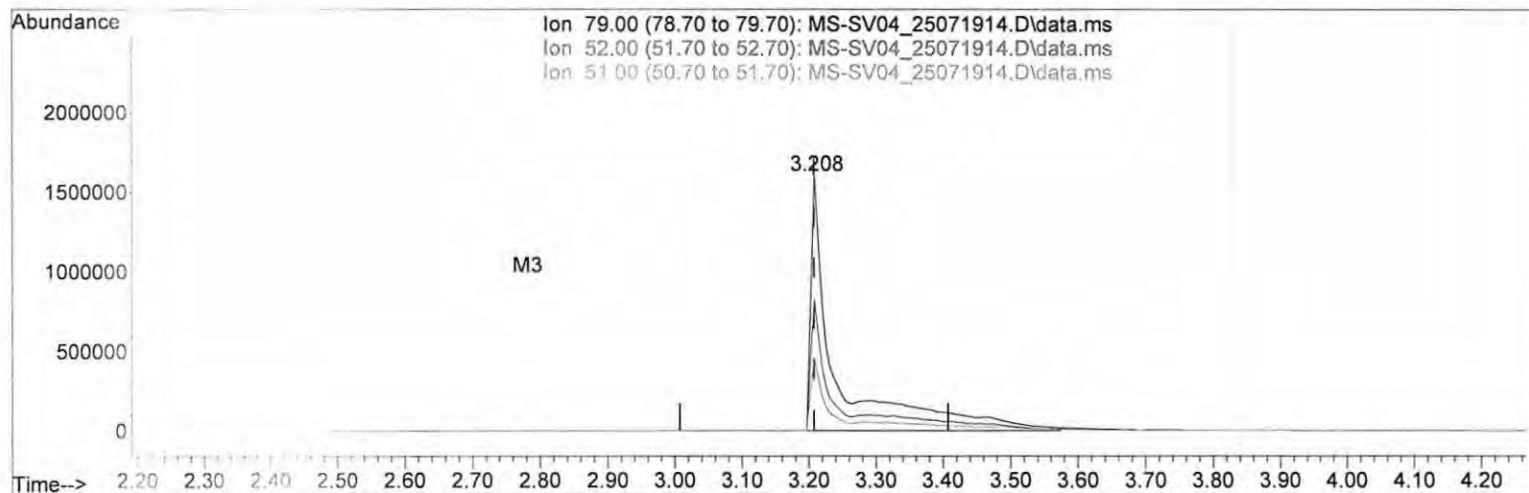
3.208min (+ 0.000) 23.05 ug/ml

response 2307709

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	52.20#
51.00	62.40	28.22#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



(2) Pyridine (T)

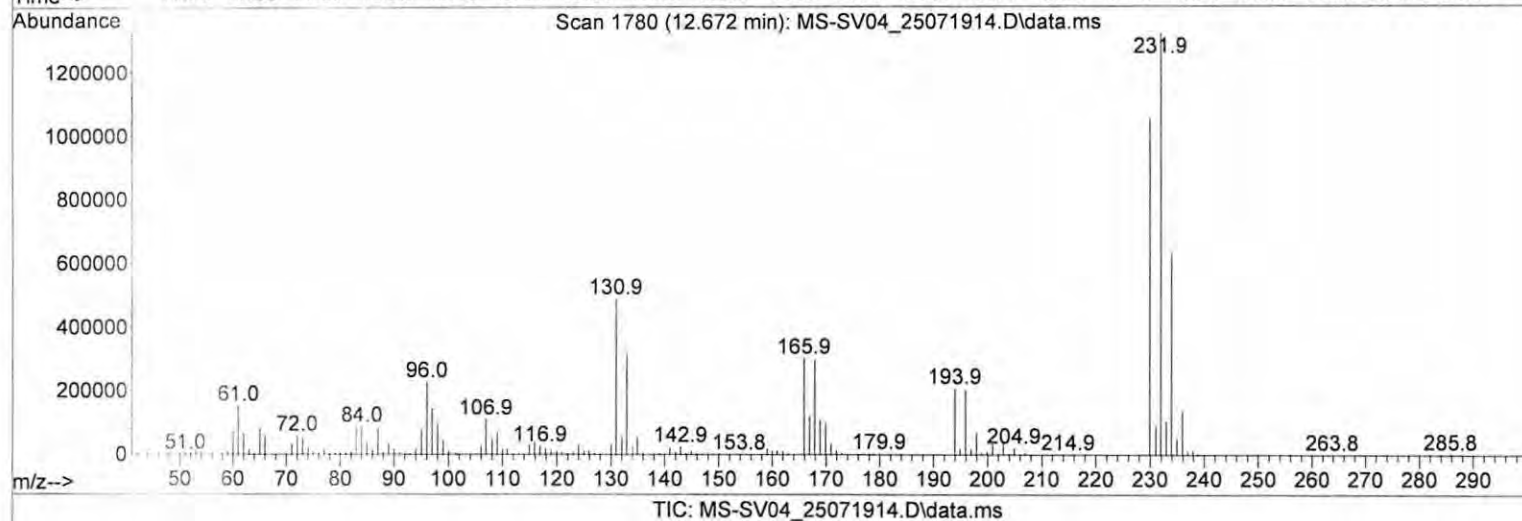
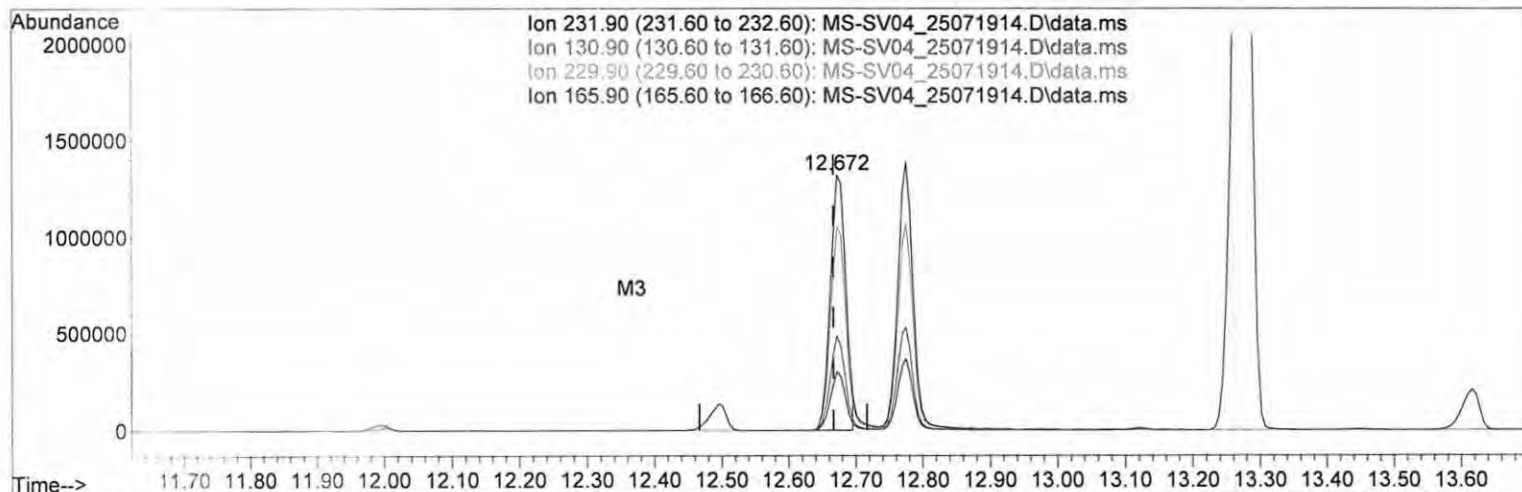
3.208min (+ 0.000) 42.31 ug/ml m

response 4235052

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	28.44#
51.00	62.40	15.38#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



TIC: MS-SV04_25071914.D\data.ms

(54) 2,3,5,6-Tetrachlorophenol (T)

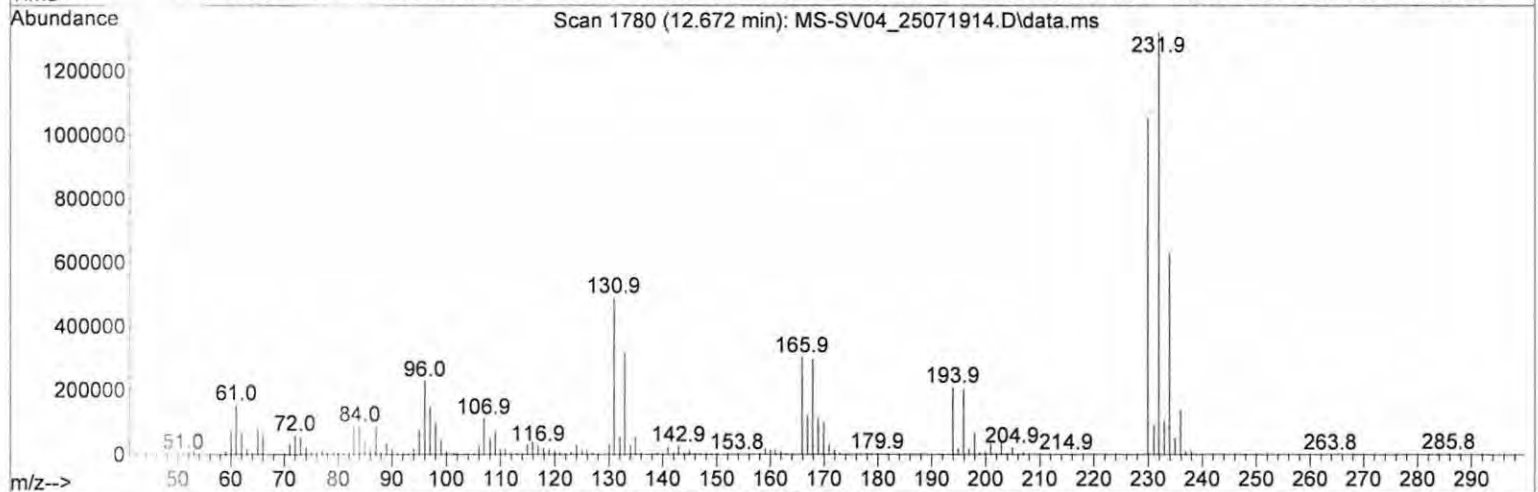
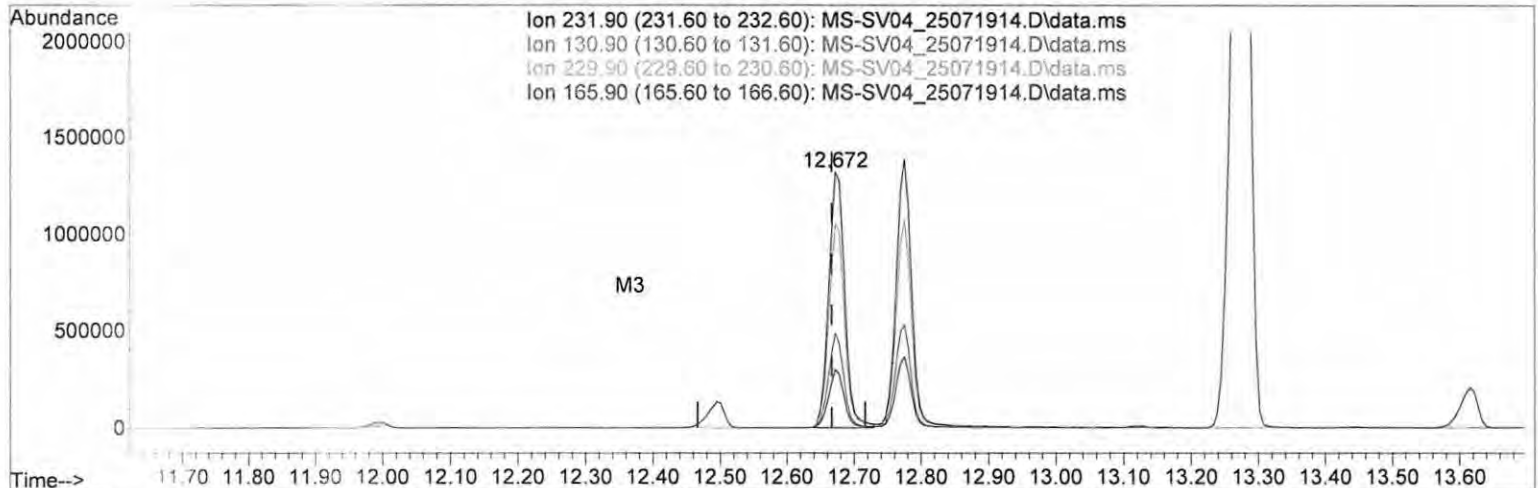
12.672min (+ 0.005) 43.03 ug/ml

response 2104909

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	35.86
229.90	79.50	78.90
165.90	23.50	22.28

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071914.D
Acq On : 23 Jul 2025 01:50 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : SVOC
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 15:13:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 10:30:03 2025
Response via : Initial Calibration



TIC: MS-SV04_25071914.D\data.ms

(54) 2,3,5,6-Tetrachlorophenol (T)

12.672min (+ 0.005) 44.51 ug/ml m

response 2181326

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	43.00	34.60
229.90	79.50	76.13
165.90	23.50	21.50

INITIAL CALIBRATION VERIFICATION

390 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 **Calibration:** AG50329
Lab File ID: MS-SV04_25071824.D **Calibration Date:** 07/18/25 08:00
Sequence: SIG1011 **Injection Date:** 07/19/25
Lab Sample ID: SIG1011-ICV2 **Injection Time:** 01:19

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
1,2,4,5-Tetrachlorobenzene	A	40.0	39.3	40.22444	39.4868	98.2	80	120
1-Naphthylamine	A	40.0	46.9	87.49258	102.5139	117	80	120
2,6-Dichlorophenol	A	40.0	39.9	27.80058	27.75324	99.8	80	120
2-Naphthylamine	A	40.0	46.7	38.56364	44.98352	117	80	120
3-Methylcholanthrene	A	40.0	41.6	55.90993	58.08199	104	80	120
4-Aminobiphenyl	A	40.0	41.7	66.68284	69.58778	104	80	120
7,12-Dimethylbenz (a) anthracene	A	40.0	43.2	56.64473	61.20547	108	80	120
Acetophenone	A	40.0	38.0	101.5678	96.45721	95.0	80	120
Dibenz (a,j) acridine	L	40.0	41.2	72.40876	80.01228	103	80	120
Ethyl methanesulfonate	A	40.0	38.5	51.4255	49.53998	96.3	80	120
Methyl methanesulfonate	A	40.0	40.4	40.97664	41.38282	101	80	120
n-Nitrosodi-n-butylamine	A	40.0	41.8	59939.71	62426.2	104	80	120
n-Nitrosopiperidine	A	40.0	38.4	37.74653	36.26466	96.1	80	120
p-(Dimethylamino) azobenzene	A	40.0	39.7	35.63853	35.40091	99.3	80	120
Pentachloronitrobenzene (quintozene)	A	40.0	40.2	11.92977	12.00012	101	80	120
Phenacetin	L	40.0	40.8	28.47645	33.37483	102	80	120
Pronamide	A	40.0	39.8	38.55093	38.32624	99.4	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071824.D
 Acq On : 19 Jul 2025 01:19 am
 Operator : BMS
 Sample : SEQ-ICV2
 Misc : APIX
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 23 14:10:04 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 Qlast Update : Wed Jul 23 14:07:47 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4802519	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.261	136	9493916	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	11.986	164	5826432	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.316	188	8803951	40.00	ug/ml	# 0.00
48) Chrysene-d12	18.549	240	7208501	40.00	ug/ml	0.00
55) Perylene-d12	19.939	264	7165379	40.00	ug/ml	# 0.00
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.785	88	1533353m	38.31	ug/ml	
3) Ethyl methacrylate	3.717	69	2716432	38.23	ug/ml	98
4) 2-Picoline	4.072	93	3835128	39.42	ug/ml	94
5) N-Nitrosomethylethylamine	4.221	88	1648308	38.81	ug/ml#	76
6) Methyl methanesulfonate	4.553	80	1987418	40.40	ug/ml#	92
7) N-Nitrosodiethylamine	4.993	102	1734774	38.54	ug/ml#	55
8) Ethyl methanesulfonate	5.325	79	2379167	38.53	ug/ml	96
9) Benzaldehyde	5.703	106	2810420	39.60	ug/ml#	85
10) Pentachloroethane	5.869	167	1686967	40.16	ug/ml	95
11) Acetophenone	6.790	105	4632376	37.99	ug/ml#	88
12) N-Nitrosomorpholine	6.819	56	1516443	37.64	ug/ml#	48
13) N-Nitrosopyrrolidine	6.762	100	1662541	39.98	ug/ml	98
14) o-Toluidine	6.847	106	4868756	38.60	ug/ml	98
15) N-Nitrosopiperidine	7.299	114	1741617	38.43	ug/ml#	55
16) Phentermine	8.038	58	6348284	45.56	ug/ml#	68
18) alpha Terpineol	8.318	59	797465	18.38	ug/ml#	39
19) 2,6-Dichlorophenol	8.421	162	2634869	39.93	ug/ml#	92
20) Hexachloropropene	8.467	213	1916074	46.96	ug/ml	98
21) Caprolactam	9.073	55	1204462	43.82	ug/ml#	28
22) N-Nitrosodibutylamine	9.096	84	2497048	41.77	ug/ml#	43
23) 1,4-Phenylenediamine	9.108	108	2597391	48.04	ug/ml#	48
24) Isosafrole	9.520	162	2902567	39.42	ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.040	216	3748844	39.27	ug/ml	100
27) Safrole	10.653	162	2897036	39.92	ug/ml	94
28) Biphenyl	10.716	154	7801565	37.85	ug/ml	98
29) 1-Chloronaphthalene	10.778	162	6345512	38.57	ug/ml#	98
30) Diphenyl ether	10.956	170	4682986	38.81	ug/ml	95
31) 1,4-Naphthoquinone	11.139	158	2359370	47.95	ug/ml	90
32) Pentachlorobenzene	12.369	250	3405032	39.30	ug/ml	99
33) 1-Naphthylamine	12.644	143	5972900	46.87	ug/ml	94
34) 2-Naphthylamine	12.833	115	2620934	46.66	ug/ml	92
35) 5-Nitro-o-toluidine	13.325	152	1898082	43.26	ug/ml	96
37) Diallate	14.320	86	2228114	39.00	ug/ml	95
38) 1,3,5-Trinitrobenzene	14.286	75	1368351	46.59	ug/ml	92
39) Phenacetin	14.412	108	2938304	40.79	ug/ml	95
40) Atrazine	14.904	200	2289759	39.35	ug/ml#	71
41) 4-Aminobiphenyl	15.018	169	6126474	41.74	ug/ml	98
42) Pentachloronitrobenzene	15.007	237	1056485	40.24	ug/ml	94
43) Pronamide	15.184	173	3374223	39.77	ug/ml#	87
44) 4-Nitroquinoline-N-oxide	16.523	190	462621	36.87	ug/ml	94
45) Methapyrilene	16.644	58	3269995	43.21	ug/ml#	51

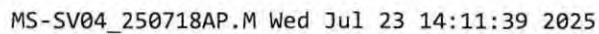
Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071824.D
Acq On : 19 Jul 2025 01:19 am
Operator : BMS
Sample : SEQ-ICV2
Misc : APIX
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 23 14:10:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 14:07:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.844	193	1373310	37.63	ug/ml	92
47) 3,3'-Dimethylbenzidine	17.971	212	4886603	51.52	ug/ml	99
49) Aramite A	17.456	185	490626	43.22	ug/ml#	65
50) Aramite B	17.536	185	1034031	43.68	ug/ml#	72
51) p-Dimethylaminoazobenzene	17.622	120	2551875	39.73	ug/ml	93
52) Chlorobenzilate	17.674	251	3428071	42.24	ug/ml	91
53) Kepone	18.023	272	1153558	61.57	ug/ml#	84
54) 2-Acetylaminofluorene	18.229	181	3086077	38.07	ug/ml	96
56) 7,12-Dimethylbenz (a) ...	19.527	256	4385604	43.22	ug/ml	99
57) 3-Methylcholanthrene	20.243	268	4161795	41.55	ug/ml#	95
58) Dibenz (a,j) acridine	20.964	279	5733183	41.15	ug/ml#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

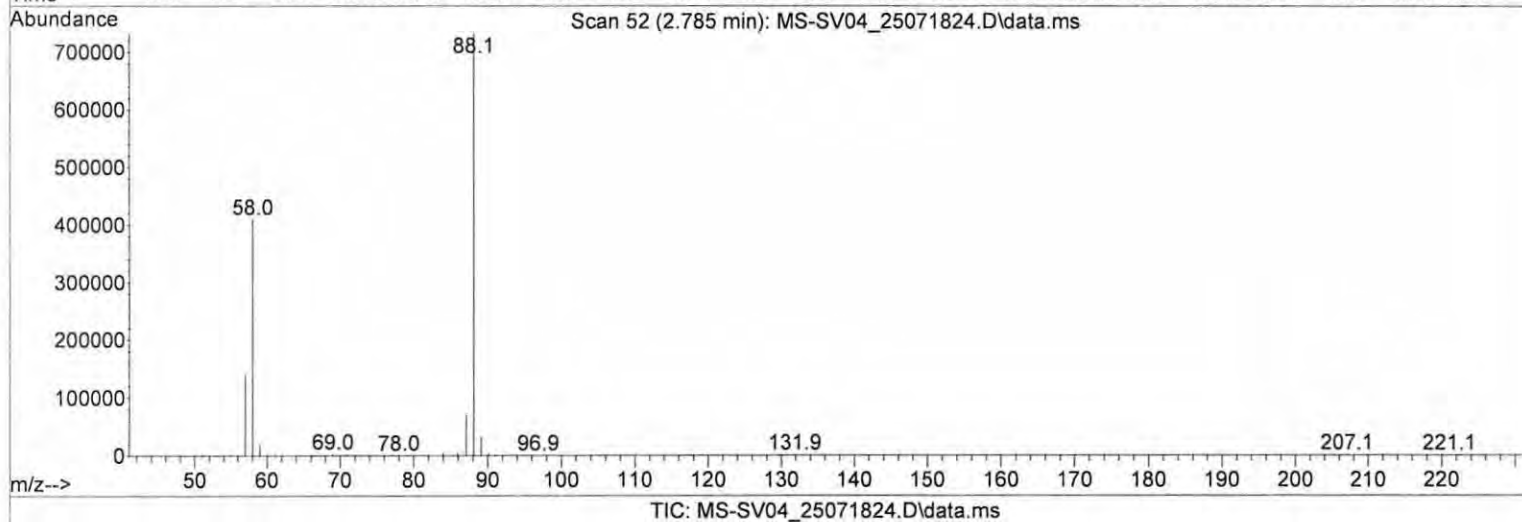
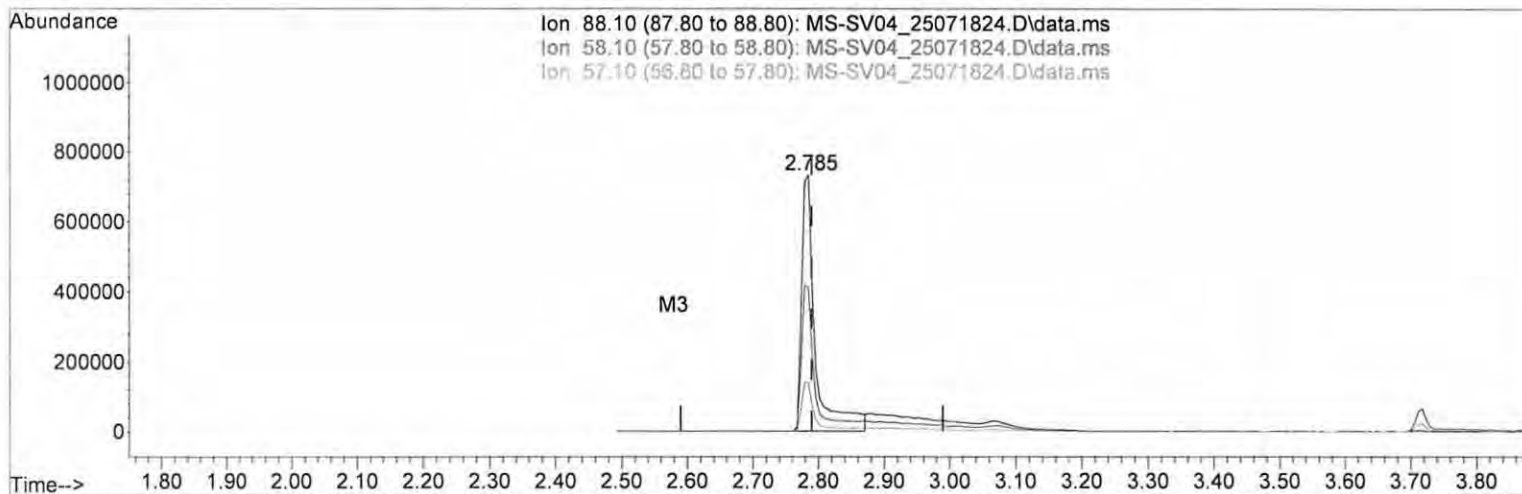
Quant Time: Jul 23 14:10:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
Qlast Update : Wed Jul 23 14:07:47 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071824.D
Acq On : 19 Jul 2025 01:19 am
Operator : BMS
Sample : SEQ-ICV2
Misc : APIX
ALS Vial : 20 Sample Multiplier: 1

394 of 521

Quant Time: Jul 23 14:10:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 14:07:47 2025
Response via : Initial Calibration



(2) 1,4-Dioxane (T)

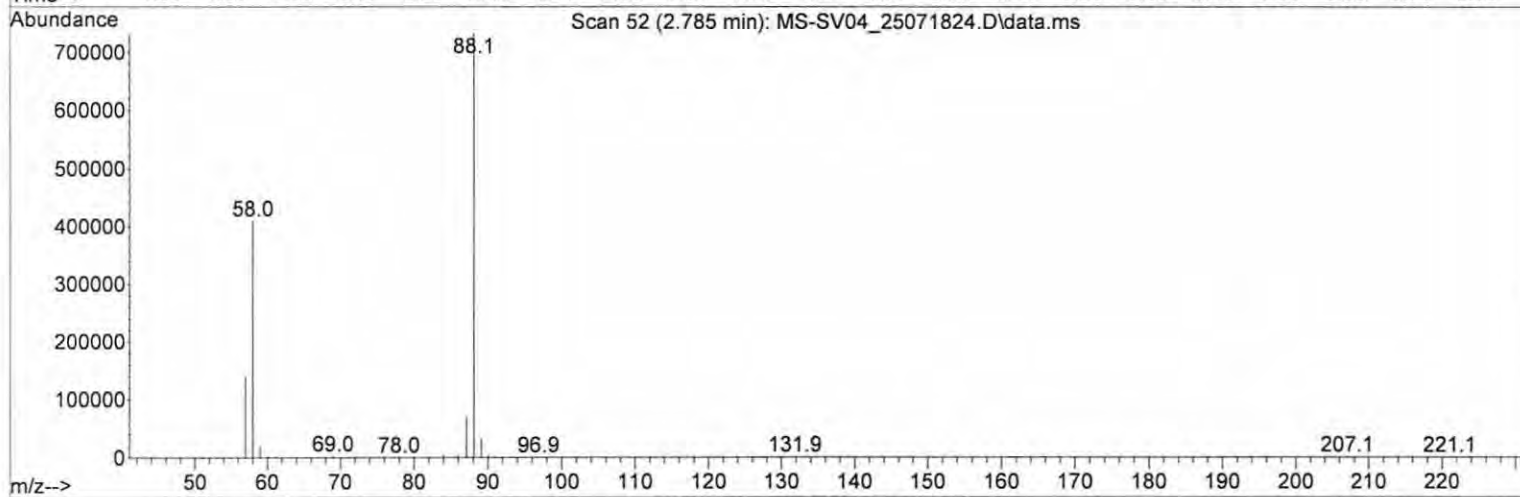
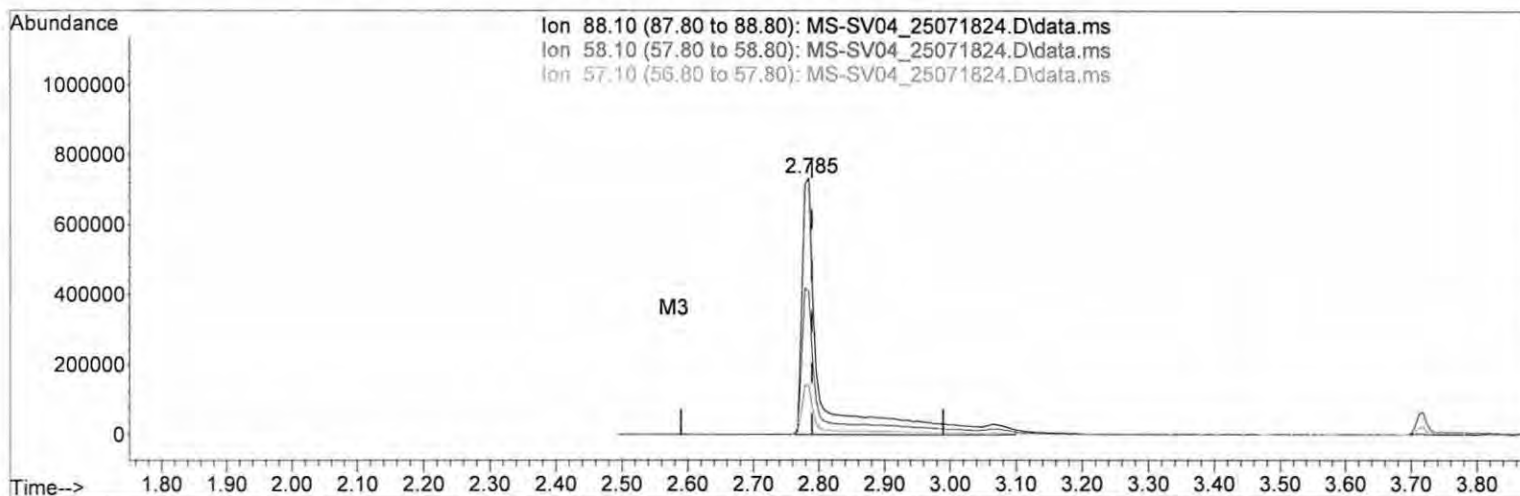
2.785min (-0.005) 26.77 ug/ml

response 1071493

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	53.91#
57.10	37.00	17.32#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071824.D
Acq On : 19 Jul 2025 01:19 am
Operator : BMS
Sample : SEQ-ICV2
Misc : APIX
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 23 14:10:04 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Wed Jul 23 14:07:47 2025
Response via : Initial Calibration



TIC: MS-SV04_25071824.D\data.ms

(2) 1,4-Dioxane (T)

2.785min (-0.005) 38.31 ug/ml m

response 1533353

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	37.67#
57.10	37.00	12.10#
0.00	0.00	0.00

INITIAL CALIBRATION VERIFICATION

396 of 521

SW8270E

Client: Draper Aden Associates - Black
 Work Order: 25H0034
 Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
 Lab File ID: MS-SV04_25071835.D Calibration Date: 07/18/25 08:00
 Sequence: SIG1011 Injection Date: 07/19/25
 Lab Sample ID: SIG1011-ICV3 Injection Time: 06:31

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
3,3'-Dichlorobenzidine	L	40.0	48.0	34.09379	46.60045	120	80	120
Benzidine	L	40.0	45.2	45.76901	67.68648	113	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071835.D
Acq On : 19 Jul 2025 06:31 am
Operator : BMS
Sample : SEQ-ICV3
Misc : BENZ
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 23 15:25:09 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

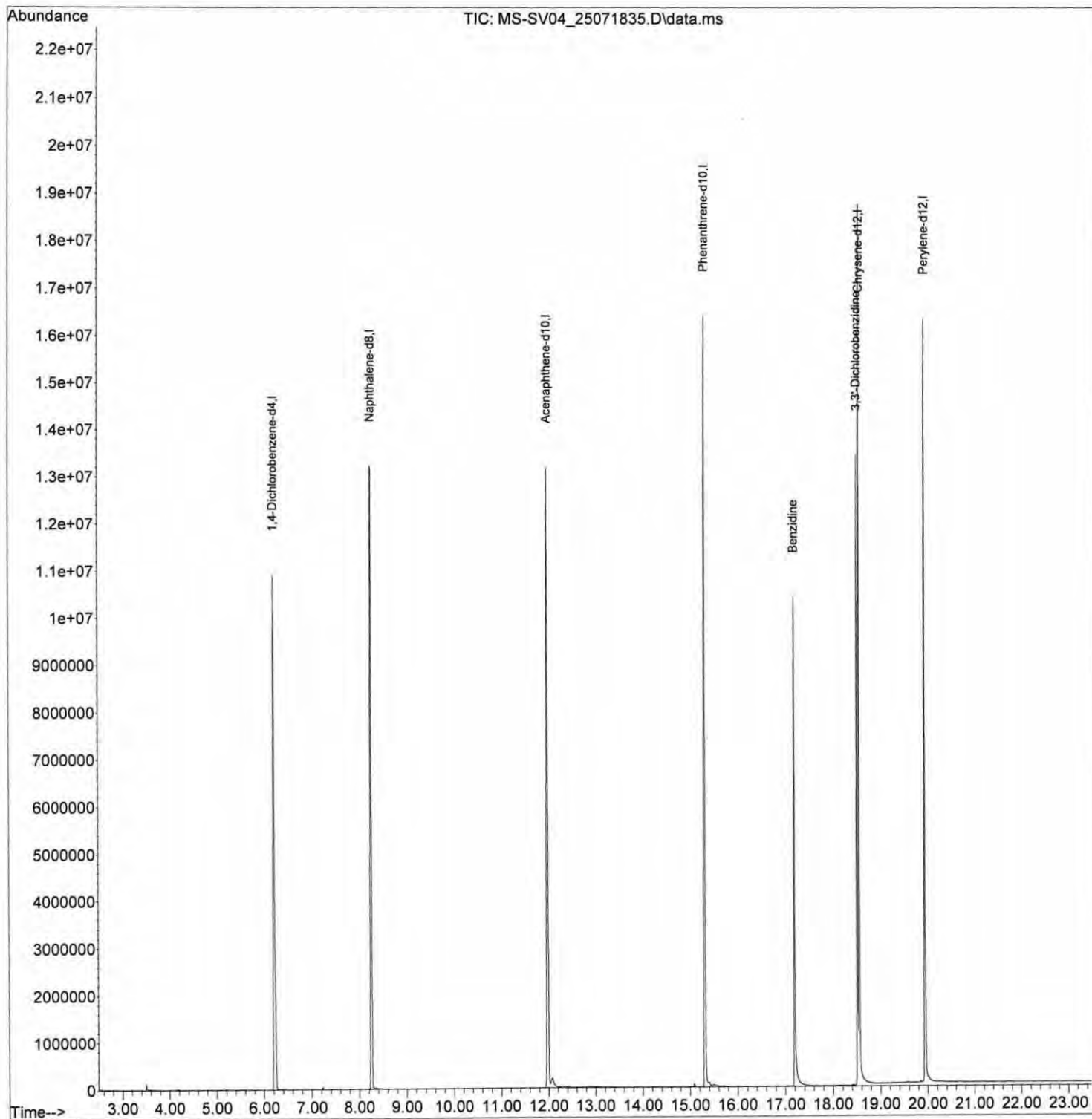
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3449936	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	10458734	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	11.980	164	5824054	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.316	188	9407182	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.555	240	7422364	40.00	ug/ml	# 0.00
8) Perylene-d12	19.940	264	8075766	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.193	184	5023937	45.22	ug/ml	96
7) 3,3'-Dichlorobenzidine	18.509	252	3458855	47.95	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071835.D
Acq On : 19 Jul 2025 06:31 am
Operator : BMS
Sample : SEQ-ICV3
Misc : BENZ
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 23 15:25:09 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 15:22:24 2025
Response via : Initial Calibration



INITIAL CALIBRATION VERIFICATION

399 of 521

SW8270E

Client: Draper Aden Associates - Black
 Work Order: 25H0034
 Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
 Lab File ID: MS-SV04_25071844.D Calibration Date: 07/18/25 08:00
 Sequence: SIG1011 Injection Date: 07/19/25
 Lab Sample ID: SIG1011-ICV4 Injection Time: 10:46

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
Benzo (a) pyrene	L	0.800	0.73	79.86335	70.20388	91.2	80	120
Hexachlorobenzene	A	0.800	0.79	32.15827	32.05874	98.8	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071844.D
 Acq On : 19 Jul 2025 10:46 am
 Operator : BMS
 Sample : SEQ-ICV4
 Misc : PEST
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 23 12:42:34 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
 Quant Title : 8270 Appendix IX Pesticide compounds
 QLast Update : Wed Jul 23 12:40:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

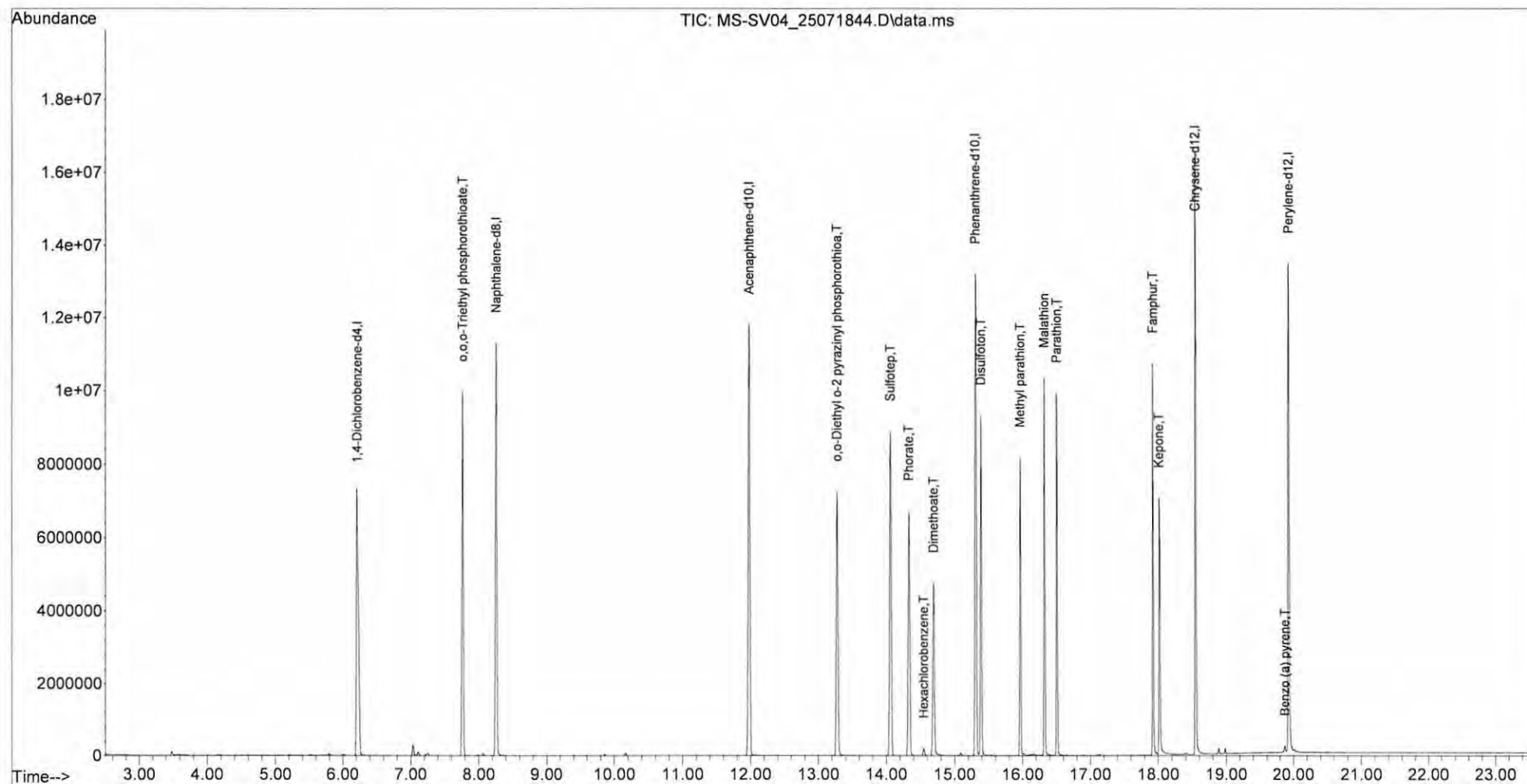
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	150	4398350	40.00	ug/ml	0.00
3) Naphthalene-d8	8.255	136	8660367	40.00	ug/ml	# 0.00
4) Acenaphthene-d10	11.980	164	4885182	40.00	ug/ml	# 0.00
6) Phenanthrene-d10	15.310	188	7509653	40.00	ug/ml	# 0.00
15) Chrysene-d12	18.549	240	5935397	40.00	ug/ml	# 0.00
19) Perylene-d12	19.939	264	6682394	40.00	ug/ml	0.00
Target Compounds				Qvalue		
2) o,o,o-Triethyl phospho...	7.763	121	1464943	37.53	ug/ml#	73
5) o,o-Diethyl o-2 pyrazi...	13.279	97	1288340	37.96	ug/ml#	80
7) Sulfotep	14.063	97	953268	39.98	ug/ml#	59
8) Phorate	14.332	75	2915122	39.76	ug/ml#	81
9) Hexachlorobenzene	14.543	284	48150	0.79	ug/ml	96
10) Dimethoate	14.692	87	1674312	39.45	ug/ml#	83
11) Disulfoton	15.390	88	2350179	38.85	ug/ml#	95
12) Methyl parathion	15.968	109	1625948	40.81	ug/ml#	81
13) Malathion	16.323	125	1425276	42.00	ug/ml	90
14) Parathion	16.506	109	1038036	40.80	ug/ml#	79
16) Kepone	18.017	272	808086	38.99	ug/ml	97
17) Famphur	17.925	218	3299400	43.03	ug/ml#	92
18) Benzo (a) pyrene	19.876	252	93826	0.73	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071844.D
Acq On : 19 Jul 2025 10:46 am
Operator : BMS
Sample : SEQ-ICV4
Misc : PEST
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 23 12:42:34 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718PE.M
Quant Title : 8270 Appendix IX Pesticide compounds
QLast Update : Wed Jul 23 12:40:45 2025
Response via : Initial Calibration



INITIAL CALIBRATION VERIFICATION

402 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25071855.D Calibration Date: 07/18/25 08:00
Sequence: SIG1016 Injection Date: 07/19/25
Lab Sample ID: SIG1016-ICV1 Injection Time: 16:01

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			ICV Lower Limit	Upper Limit
		STD	ICV	ICAL	ICV	% Rec		
2-Methylnaphthalene	A	5.00	4.92	71.57006	76.01474	98.4	80	120
Acenaphthene	A	5.00	4.63	115.6824	116.4672	92.6	80	120
Acenaphthylene	A	5.00	4.64	164.3588	179.4953	92.8	80	120
Anthracene	A	5.00	5.21	106.9532	112.9657	104	80	120
Benzo (a) anthracene	A	5.00	4.73	140.0542	120.8177	94.6	80	120
Benzo (a) pyrene	L	5.00	4.71	79.86335	95.43297	94.2	80	120
Benzo (b) fluoranthene	A	5.00	4.59	91.32467	97.50789	91.8	80	120
Benzo (g,h,i) perylene	A	5.00	4.23	84.50899	85.92879	84.6	80	120
Benzo (k) fluoranthene	A	5.00	4.47	109.6477	119.1011	89.4	80	120
Chrysene	A	5.00	4.62	131.9259	132.9038	92.4	80	120
Dibenz (a,h) anthracene	A	5.00	4.65	76.02293	85.11876	93.0	80	120
Fluoranthene	A	5.00	4.64	108.6768	124.4532	92.8	80	120
Fluorene	A	5.00	5.43	120.0614	124.8704	109	80	120
Indeno (1,2,3-cd) pyrene	A	5.00	4.56	97.85816	105.5274	91.2	80	120
Naphthalene	A	5.00	4.38	119.3478	115.9541	87.6	80	120
Phenanthrene	A	5.00	4.58	120.8841	120.9741	91.6	80	120
Pyrene	A	5.00	4.53	143.3391	155.9694	90.6	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
 Data File : MS-SV04_25071855.D
 Acq On : 19 Jul 2025 04:01 pm
 Operator : BMS
 Sample : SEQ-ICV1
 Misc : LLPAH
 ALS Vial : 47 Sample Multiplier: 1

Quant Time: Jul 23 16:52:21 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Wed Jul 23 16:47:06 2025
 Response via : Initial Calibration

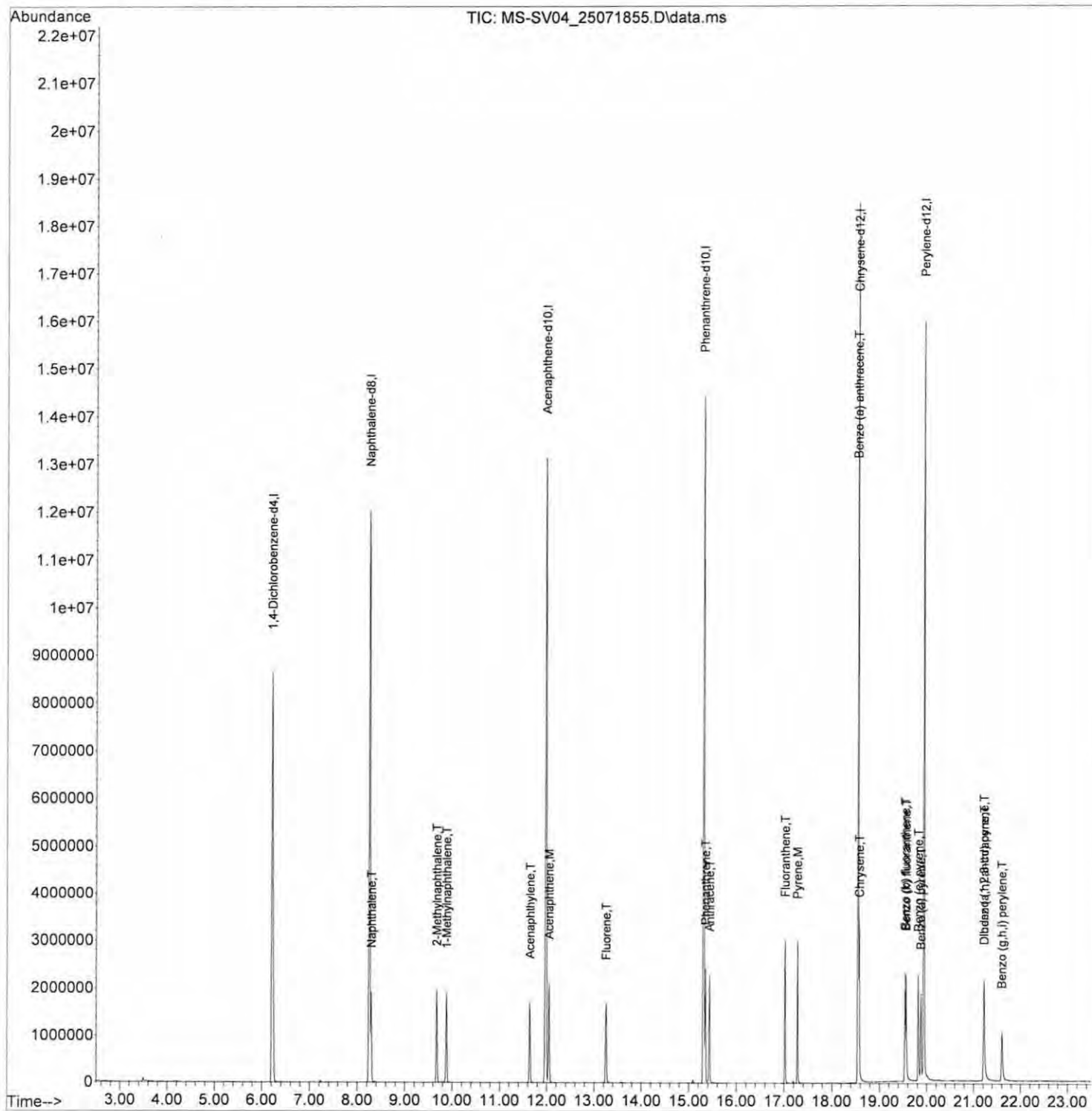
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.212	152	3090200	40.00	ug/ml	0.00
2) Naphthalene-d8	8.255	136	9429192	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	11.980	164	5559134	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.310	188	8420136	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.549	240	6882033	40.00	ug/ml	# 0.00
18) Perylene-d12	19.939	264	7738910	40.00	ug/ml	0.00
Target Compounds						
						Qvalue
3) Naphthalene	8.295	128	1366692	4.38	ug/ml	99
4) 2-Methylnaphthalene	9.674	142	895947	4.92	ug/ml	97
5) 1-Methylnaphthalene	9.880	142	871474	5.28	ug/ml	93
7) Acenaphthylene	11.642	152	1247298	4.64	ug/ml	99
8) Acenaphthene	12.049	154	809321	4.63	ug/ml	98
9) Fluorene	13.256	166	867714	5.43	ug/ml	98
11) Phenanthrene	15.350	178	1273273	4.58	ug/ml	99
12) Anthracene	15.436	178	1188983	5.21	ug/ml	99
13) Fluoranthene	17.021	202	1309891	4.64	ug/ml	98
15) Pyrene	17.279	202	1341733	4.53	ug/ml	99
16) Benzo (a) anthracene	18.543	228	1039339	4.73	ug/ml	99
17) Chrysene	18.578	228	1143310	4.62	ug/ml	99
19) Benzo (b) fluoranthene	19.539	252	943256	4.59	ug/ml	99
20) Benzo (k) fluoranthene	19.562	252	1152141	4.47	ug/ml#	97
21) Benzo (e) pyrene	19.819	252	1015946	4.94	ug/ml#	97
22) Benzo (a) pyrene	19.877	252	923184	4.71	ug/ml#	95
23) Indeno (1,2,3-cd) pyrene	21.221	276	1020834	4.56	ug/ml#	88
24) Dibenzo (a,h) anthracene	21.227	278	823408	4.65	ug/ml#	94
25) Benzo (g,h,i) perylene	21.605	276	831244	4.23	ug/ml#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

HLV

Data Path : D:\MassHunter\GCMS\1\data\2507\250718\
Data File : MS-SV04_25071855.D
Acq On : 19 Jul 2025 04:01 pm
Operator : BMS
Sample : SEQ-ICV1
Misc : LLPAH
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Jul 23 16:52:21 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Wed Jul 23 16:47:06 2025
Response via : Initial Calibration



CONTINUING CALIBRATION VERIFICATION

405 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04

Calibration: AG50329

Lab File ID: MS-SV04_25080503.D

Calibration Date: 07/18/25 08:00

Sequence: SIH0223

Injection Date: 08/05/25

Lab Sample ID: SIH0223-CCV1

Injection Time: 13:15

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV	% Rec		
1,2,4-Trichlorobenzene	A	40.0	38.5	37.9324	36.52325	96.3	80	120
1,2-Dichlorobenzene	A	40.0	38.0	142.9936	136.0314	95.1	80	120
1,2-Diphenylhydrazine	A	40.0	36.1	104.9549	94.81965	90.4	80	120
1,3-Dichlorobenzene	A	40.0	38.5	150.3285	144.5677	96.2	80	120
1,3-Dinitrobenzene	L	40.0	44.6	18.13097	23.16764	111	80	120
1,4-Dichlorobenzene	A	40.0	38.3	146.8134	140.4361	95.6	80	120
2,3,4,6-Tetrachlorophenol	L	40.0	44.7	26.85785	35.54009	112	80	120
2,4,5-Trichlorophenol	A	40.0	46.4	33.53044	38.90129	116	80	120
2,4,6-Trichlorophenol	A	40.0	46.1	33.82339	38.96039	115	80	120
2,4-Dichlorophenol	A	40.0	41.4	30.09763	31.14351	103	80	120
2,4-Dimethylphenol	A	40.0	37.3	32.21199	30.00169	93.2	80	120
2,4-Dinitrophenol	L	40.0	62.1	5.150357	14.36693	155	80	120
2,4-Dinitrotoluene	L	40.0	43.3	32.96101	39.63938	108	80	120
2,6-Dinitrotoluene	A	40.0	44.5	28.59443	31.8413	111	80	120
2-Chloronaphthalene	A	40.0	38.0	111.7926	106.3026	95.1	80	120
2-Chlorophenol	A	40.0	39.7	126.9091	126.0878	99.4	80	120
2-Methylnaphthalene	A	40.0	38.1	71.57006	62.69754	95.2	80	120
2-Nitroaniline	L	40.0	41.1	21.28346	24.84725	103	80	120
2-Nitrophenol	L	40.0	43.2	15.48566	19.39818	108	80	120
3-Nitroaniline	A	40.0	46.6	25.36765	29.56794	117	80	120
4,6-Dinitro-2-methylphenol	L	40.0	58.4	10.32703	22.90677	146	80	120
4-Bromophenyl phenyl ether	A	40.0	42.0	25.9407	27.26681	105	80	120
4-Chloroaniline	A	40.0	39.2	40.62422	39.83894	98.1	80	120
4-Chlorophenyl phenyl ether	A	40.0	39.7	65.72132	65.29266	99.4	80	120
4-Nitroaniline	L	40.0	43.5	17.54667	21.36332	109	80	120
4-Nitrophenol	L	40.0	42.9	11.02265	15.58401	107	80	120
Acenaphthene	A	40.0	37.3	115.6824	98.25093	93.2	80	120
Acenaphthylene	A	40.0	37.4	164.3588	161.917	93.6	80	120
Aniline	A	40.0	38.2	166.5402	159.0448	95.5	80	120
Anthracene	A	40.0	36.9	106.9532	97.02034	92.2	80	120
Benzo (a) anthracene	A	40.0	40.7	140.0542	122.2442	102	80	120

CONTINUING CALIBRATION VERIFICATION

406 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25080503.D Calibration Date: 07/18/25 08:00
Sequence: SIH0223 Injection Date: 08/05/25
Lab Sample ID: SIH0223-CCV1 Injection Time: 13:15

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV	% Rec		
Benzo (a) pyrene	L	40.0	42.0	79.86335	104.075	105	80	120
Benzo (b) fluoranthene	A	40.0	41.5	91.32467	108.9585	104	80	120
Benzo (g,h,i) perylene	A	40.0	43.1	84.50899	99.98086	108	80	120
Benzo (k) fluoranthene	A	40.0	37.9	109.6477	108.7628	94.7	80	120
Benzoic acid	L	40.0	49.5	11.13173	16.70999	124	80	120
Benzyl alcohol	A	40.0	40.4	73.65944	74.33099	101	80	120
bis (2-Chloroethoxy) methane	A	40.0	35.2	40.3935	35.58892	88.1	80	120
bis (2-Chloroethyl) ether	A	40.0	35.5	118.1956	105.0043	88.8	80	120
2,2'-Oxybis (1-chloropropane)	A	40.0	38.0	46.89924	44.56033	95.0	80	120
bis (2-Ethylhexyl) phthalate	L	40.0	39.9	72.53816	80.93892	99.8	80	120
Butyl benzyl phthalate	L	40.0	39.8	50.3793	58.69377	99.4	80	120
Chrysene	A	40.0	36.3	131.9259	107.2765	90.8	80	120
Dibenz (a,h) anthracene	A	40.0	44.0	76.02293	97.37186	110	80	120
Dibenzofuran	A	40.0	38.8	149.396	144.7885	96.9	80	120
Diethyl phthalate	A	40.0	40.0	125.3183	125.27	100	80	120
Dimethyl phthalate	A	40.0	39.7	129.0727	128.0281	99.2	80	120
Di-n-butyl phthalate	A	40.0	37.6	111.7294	105.1675	94.1	80	120
Di-n-octyl phthalate	L	40.0	36.3	94.94236	113.6393	90.7	80	120
Fluoranthene	A	40.0	35.3	108.6768	98.98959	88.2	80	120
Fluorene	A	40.0	38.9	120.0614	121.6415	97.2	80	120
Hexachlorobenzene	A	40.0	41.7	32.15827	33.14892	104	80	120
Hexachlorobutadiene	A	40.0	40.5	24.29315	24.57127	101	80	120
Hexachlorocyclopentadiene	L	40.0	50.2	12.12105	19.78687	125	80	120
Hexachloroethane	A	40.0	40.0	54.936	54.97459	100	80	120
Indeno (1,2,3-cd) pyrene	A	40.0	42.9	97.85816	122.8175	107	80	120
Isophorone	A	40.0	35.6	67.10928	59.79622	89.1	80	120
m+p-Cresols	A	40.0	36.2	114.7535	103.7565	90.4	80	120
Naphthalene	A	40.0	35.1	119.3478	91.59291	87.6	80	120
Nitrobenzene	A	40.0	38.8	90594.91	71712.73	96.9	80	120
n-Nitrosodimethylamine	A	40.0	39.1	55596.55	44580.43	97.8	80	120
n-Nitrosodi-n-propylamine	A	40.0	35.9	59424.4	43628.8	89.8	80	120

CONTINUING CALIBRATION VERIFICATION

407 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04

Calibration: AG50329

Lab File ID: MS-SV04_25080503.D

Calibration Date: 07/18/25 08:00

Sequence: SIH0223

Injection Date: 08/05/25

Lab Sample ID: SIH0223-CCV1

Injection Time: 13:15

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV	% Rec		
n-Nitrosodiphenylamine	A	40.0	40.2	104.2043	104.8433	101	80	120
o-Cresol	A	40.0	37.4	108.4188	101.2729	93.4	80	120
p-Chloro-m-cresol	A	40.0	42.2	28.56399	30.14631	106	80	120
Pentachlorophenol	L	40.0	45.8	11.49335	16.82638	114	80	120
Phenanthrene	A	40.0	35.3	120.8841	95.25231	88.2	80	120
Phenol	A	40.0	36.6	151.9766	139.2046	91.6	80	120
Pyrene	A	40.0	35.9	143.3391	133.1826	89.8	80	120
Pyridine	A	40.0	38.2	120.7445	115.2598	95.4	80	120
2,4,6-Tribromophenol (Surr)	L	40.0	44.4	12.88479	17.51132	111	80	120
2-Fluorobiphenyl (Surr)	A	40.0	36.7	143.0714	131.2319	91.7	80	120
2-Fluorophenol (Surr)	A	40.0	38.1	129.4303	123.277	95.2	80	120
Nitrobenzene-d5 (Surr)	A	40.0	39.9	114.9985	114.5861	99.6	80	120
Phenol-d5 (Surr)	A	40.0	37.4	139.5705	130.3443	93.4	80	120
p-Terphenyl-d14 (Surr)	A	40.0	39.0	116.5608	113.5904	97.4	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080503.D
 Acq On : 05 Aug 2025 01:15 pm
 Operator : BMS
 Sample : SEQ-CCV1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2-Methylnaphthalene	9.800	142	5601960	38.08	ug/ml	98
34) 1-Methylnaphthalene	10.006	142	5770638	37.82	ug/ml	94
35) Hexachlorocyclopentadiene	10.143	237	1767936	50.15	ug/ml#	98
37) 2,4,6-Trichlorophenol	10.418	196	2169760	46.08	ug/ml	99
38) 2,4,5-Trichlorophenol	10.492	198	2166469	46.41	ug/ml	99
40) 2-Chloronaphthalene	10.853	162	5920144	38.04	ug/ml#	98
41) 2-Nitroaniline	11.105	65	1383779	41.12	ug/ml#	73
42) 1,4-Dinitrobenzene	11.442	75	1040669	42.53	ug/ml#	39
43) 1,2-Dinitrobenzene	11.797	168	814383	44.83	ug/ml	96
44) Dimethyl phthalate	11.579	163	7130072	39.68	ug/ml#	98
45) Acenaphthylene	11.785	152	9017389	37.45	ug/ml	99
46) 2,6-Dinitrotoluene	11.694	165	1773288	44.54	ug/ml#	87
47) 1,3-Dinitrobenzene	11.620	168	1290239	44.56	ug/ml#	62
48) 3-Nitroaniline	12.060	138	1646681	46.62	ug/ml	86
49) Acenaphthene	12.192	154	5471736	37.26	ug/ml	99
50) 2,4-Dinitrophenol	12.306	184	800115	62.10	ug/ml#	83
51) Dibenzofuran	12.592	168	8063480	38.77	ug/ml	97
52) 4-Nitrophenol	12.524	109	867896	42.86	ug/ml#	77
53) 2,4-Dinitrotoluene	12.621	165	2207574	43.27	ug/ml#	90
54) 2,3,5,6-Tetrachlorophenol	12.804	232	1937790	44.63	ug/ml	96
55) 2,3,4,6-Tetrachlorophenol	12.907	232	1979279	44.67	ug/ml	95
56) Diethyl phthalate	13.239	149	6976468	39.98	ug/ml	93
57) Fluorene	13.399	166	6774388	38.89	ug/ml	99
58) 4-Chlorophenyl phenyl ...	13.439	204	3636242	39.74	ug/ml	99
59) 4-Nitroaniline	13.485	138	1189754	43.53	ug/ml#	79
60) 4,6-Dinitro-2-methylph...	13.582	198	1275711	58.36	ug/ml#	67
61) N-Nitrosodiphenylamine	13.737	169	5838875	40.25	ug/ml	95
62) Azobenzene	13.817	77	5280643	36.14	ug/ml#	89
65) 4-Bromophenyl phenyl e...	14.589	248	2443636	42.04	ug/ml	97
66) Hexachlorobenzene	14.692	284	2970787	41.66	ug/ml#	89
67) Pentachlorophenol	15.104	266	1507970	45.78	ug/ml	100
68) Phenanthrene	15.465	178	8536457	35.28	ug/ml	99
69) Anthracene	15.551	178	8694907	36.87	ug/ml	99
70) Carbazole	15.825	167	8319748	42.15	ug/ml	100
71) Di-n-butyl phthalate	16.375	149	9425049	37.65	ug/ml	97
72) Fluoranthene	17.118	202	8871390	35.29	ug/ml	99
74) Pyrene	17.382	202	9182463	35.93	ug/ml	98
76) Butyl benzyl phthalate	18.068	149	4046724m	39.78	ug/ml	
77) Bis (2-ethylhexyl) adi...	18.131	129	3224446	38.25	ug/ml#	79
78) Benzo (a) anthracene	18.640	228	8428298	40.70	ug/ml	99
79) Chrysene	18.681	228	7396328	36.31	ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.618	149	5580447	39.93	ug/ml#	92
82) Di-n-octyl phthalate	19.201	149	8656332	36.28	ug/ml#	83
83) Benzo (b) fluoranthene	19.665	252	8299777	41.48	ug/ml	98
84) Benzo (k) fluoranthene	19.693	252	8284871	37.87	ug/ml#	95
85) Benzo (a) pyrene	20.014	252	7927789m	42.00	ug/ml	
86) Indeno (1,2,3-cd) pyrene	21.433	276	9355472	42.91	ug/ml#	80
87) Dibenz (a,h) anthracene	21.433	278	7417183	43.95	ug/ml#	92
88) Benzo (g,h,i) perylene	21.833	276	7615920	43.10	ug/ml#	87

HLY

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080503.D
 Acq On : 05 Aug 2025 01:15 pm
 Operator : BMS
 Sample : SEQ-CCV1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2671318	40.00	ug/ml	0.00
21) Naphthalene-d8	8.375	136	8934896	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.117	164	5569144	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.419	188	8961942	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.658	240	6894640	40.00	ug/ml	0.00
81) Perylene-d12	20.077	264	7617378	40.00	ug/ml	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	4.799	112	3293120	38.10	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	38.10%		
5) Phenol-d5	5.846	99	3481910	37.36	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	37.36%	#	
19) Nitrobenzene-d5	7.122	82	3060958	39.86	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	79.72%		
39) 2-Fluorobiphenyl	10.612	172	7308494	36.69	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	73.38%		
64) 2,4,6-Tribromophenol	13.971	330	1569354	44.42	ug/ml	0.00
Spiked Amount 100.000	Range 20 - 86		Recovery =	44.42%		
75) p-Terphenyl-d14	17.559	244	7831651	38.98	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	77.96%		

Target Compounds					Qvalue
2) Pyridine	3.300	79	3078957m	38.18	ug/ml
3) N-Nitrosodimethylamine	3.294	74	1783217m	39.10	ug/ml
6) Aniline	5.903	93	4248593	38.20	ug/ml
7) Phenol	5.863	94	3718597	36.64	ug/ml#
8) Bis (2-chloroethyl) ether	5.966	93	2805000	35.54	ug/ml#
9) 2-Chlorophenol	6.041	128	3368207	39.74	ug/ml#
10) 1,3-Dichlorobenzene	6.229	146	3861864	38.47	ug/ml
11) 1,4-Dichlorobenzene	6.327	146	3751496	38.26	ug/ml
12) Benzyl alcohol	6.493	108	1985617	40.36	ug/ml
13) 1,2-Dichlorobenzene	6.544	146	3633831	38.05	ug/ml
14) o-Cresol	6.641	108	2705320	37.36	ug/ml
15) Bis (2-chloroisopropyl)...	6.687	121	1190348	38.01	ug/ml#
16) p-Cresol	6.882	107	2771667	36.17	ug/ml
17) N-nitrosodi-n-propyl a...	6.893	70	1745152	35.91	ug/ml#
18) Hexachloroethane	7.048	117	1468546	40.03	ug/ml
20) Nitrobenzene	7.156	77	2868509	38.75	ug/ml#
22) Isophorone	7.557	82	5342730	35.64	ug/ml#
23) 2-Nitrophenol	7.683	139	1733207	43.22	ug/ml#
24) 2,4-Dimethylphenol	7.757	122	2680620	37.26	ug/ml
25) Bis (2-chloroethoxy) m...	7.929	93	3179833	35.24	ug/ml#
26) 2,4-Dichlorophenol	8.112	162	2782640	41.39	ug/ml
27) 1,2,4-Trichlorobenzene	8.266	180	3263314	38.51	ug/ml
28) Benzoic acid	7.975	105	1493020	49.47	ug/ml
29) Naphthalene	8.415	128	8183731	35.06	ug/ml
30) 4-Chloroaniline	8.512	127	3559568	39.23	ug/ml#
31) Hexachlorobutadiene	8.656	225	2195417	40.46	ug/ml
32) p-Chloro-m-cresol	9.508	107	2693541	42.22	ug/ml

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

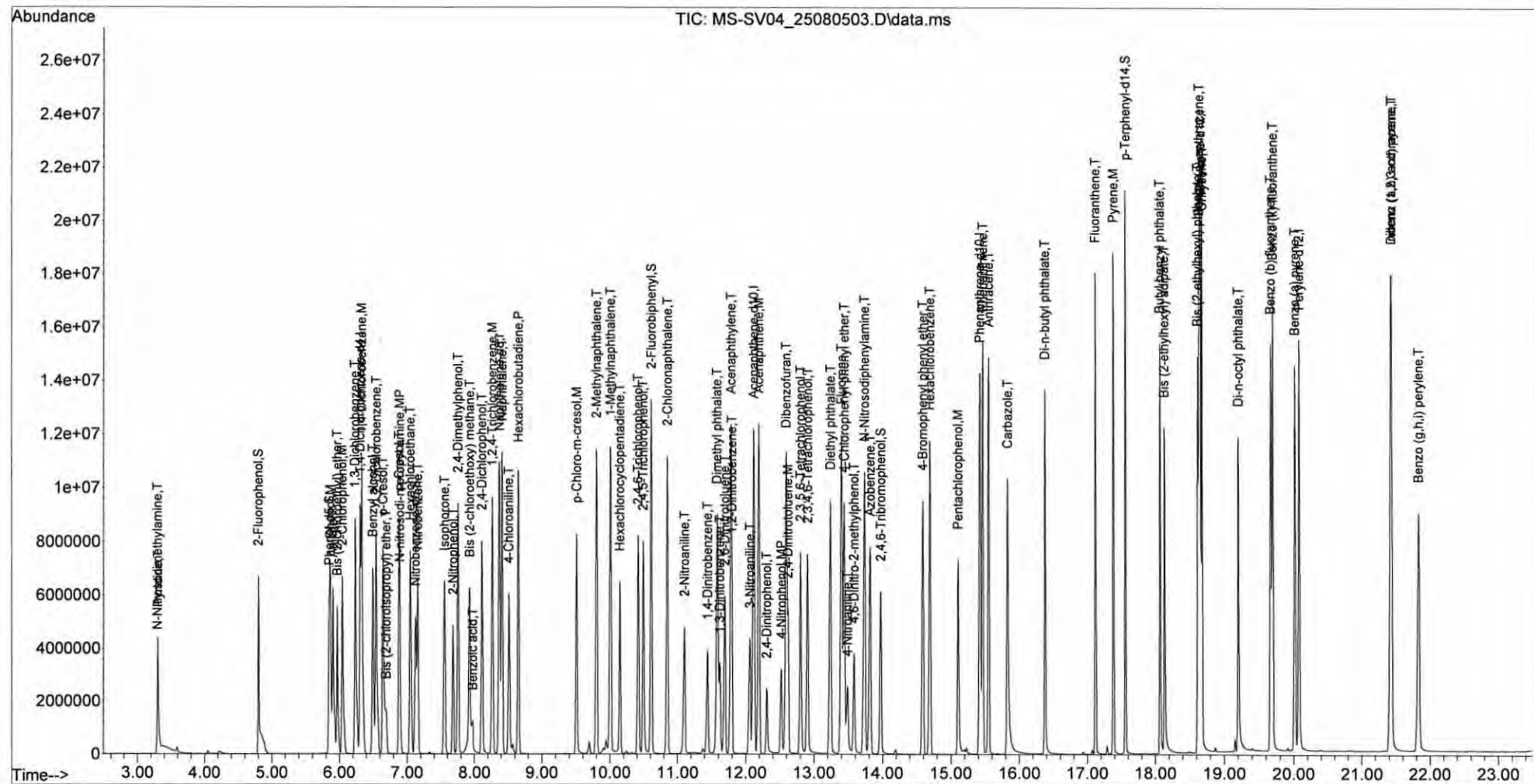
Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

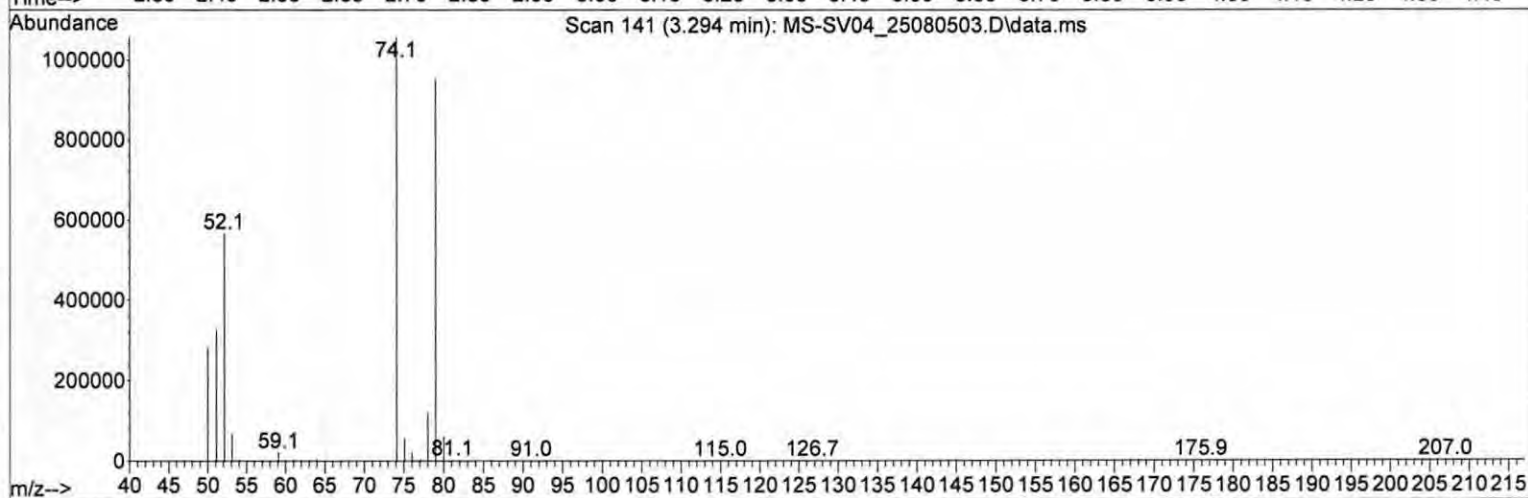
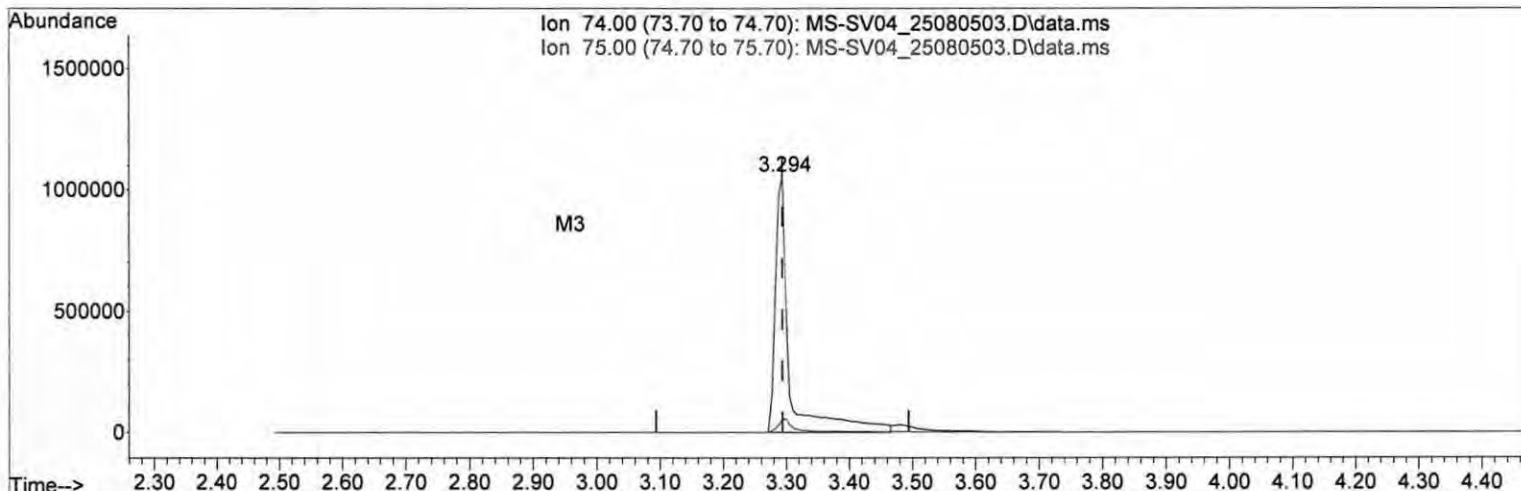
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(3) N-Nitrosodimethylamine (T)

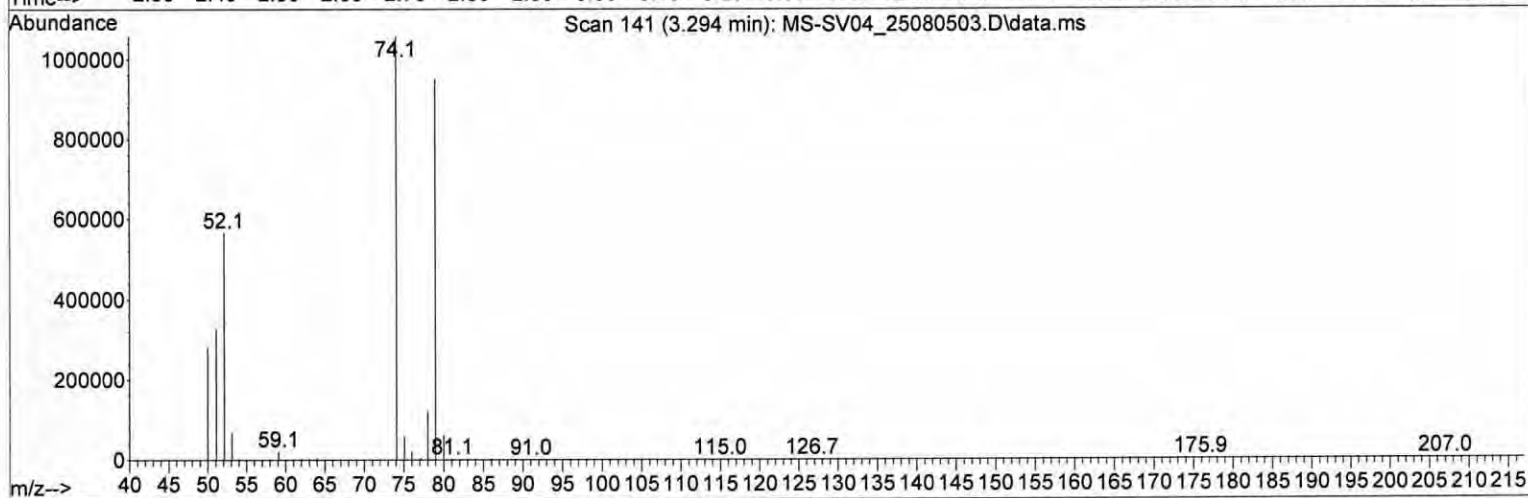
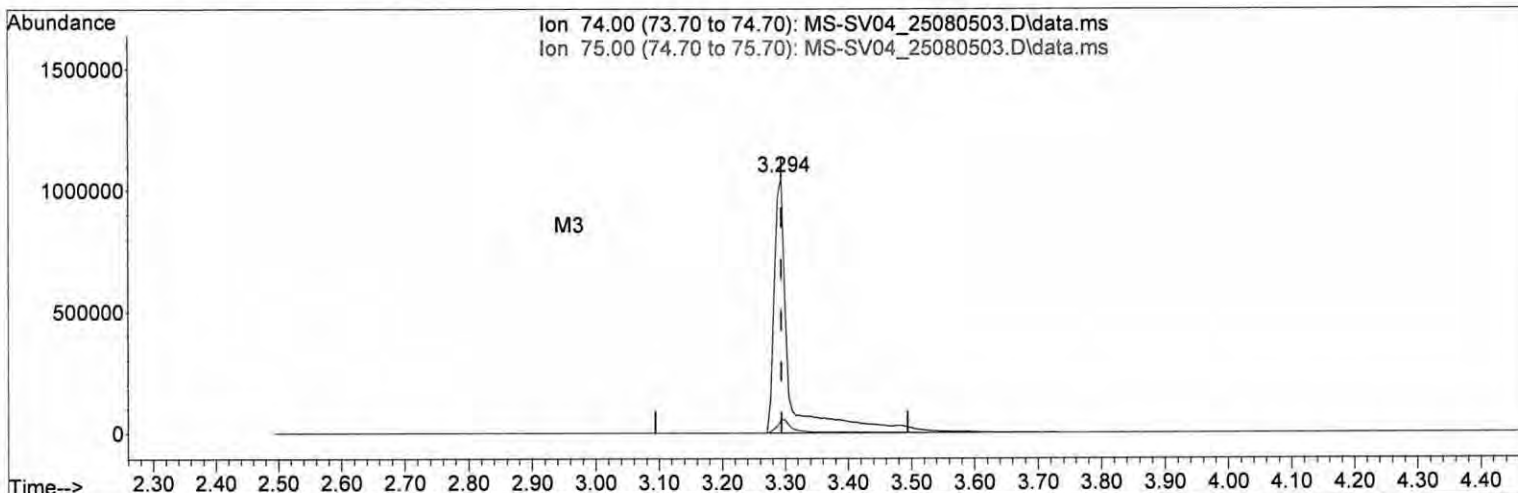
3.294min (-0.000) 36.81 ug/ml

response 1678833

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(3) N-Nitrosodimethylamine (T)

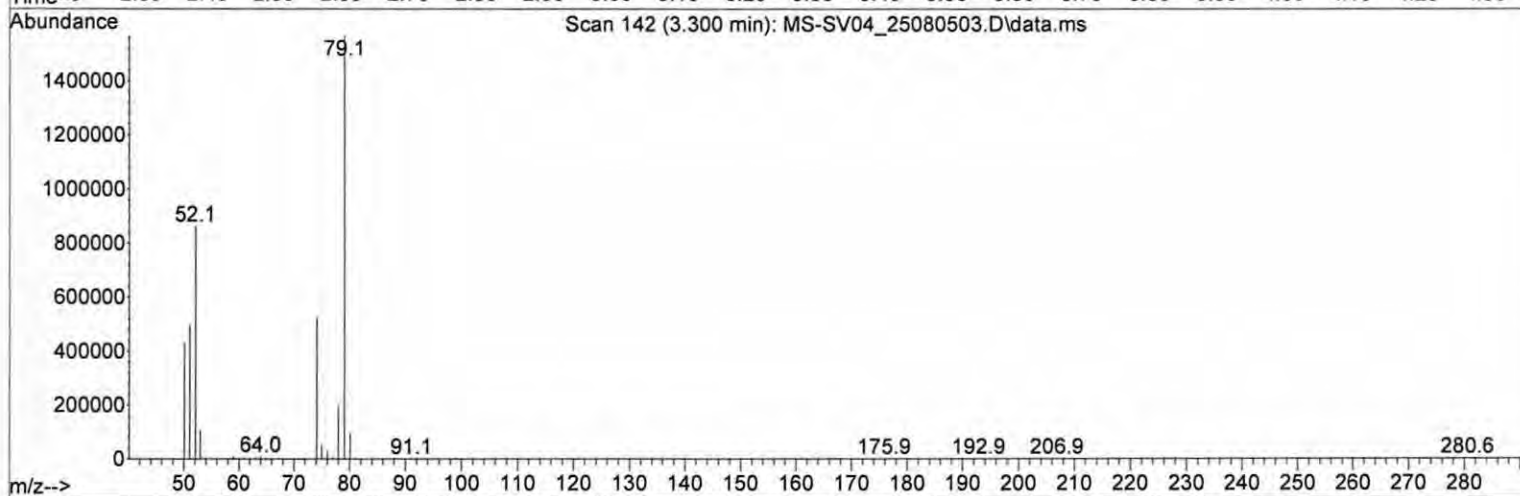
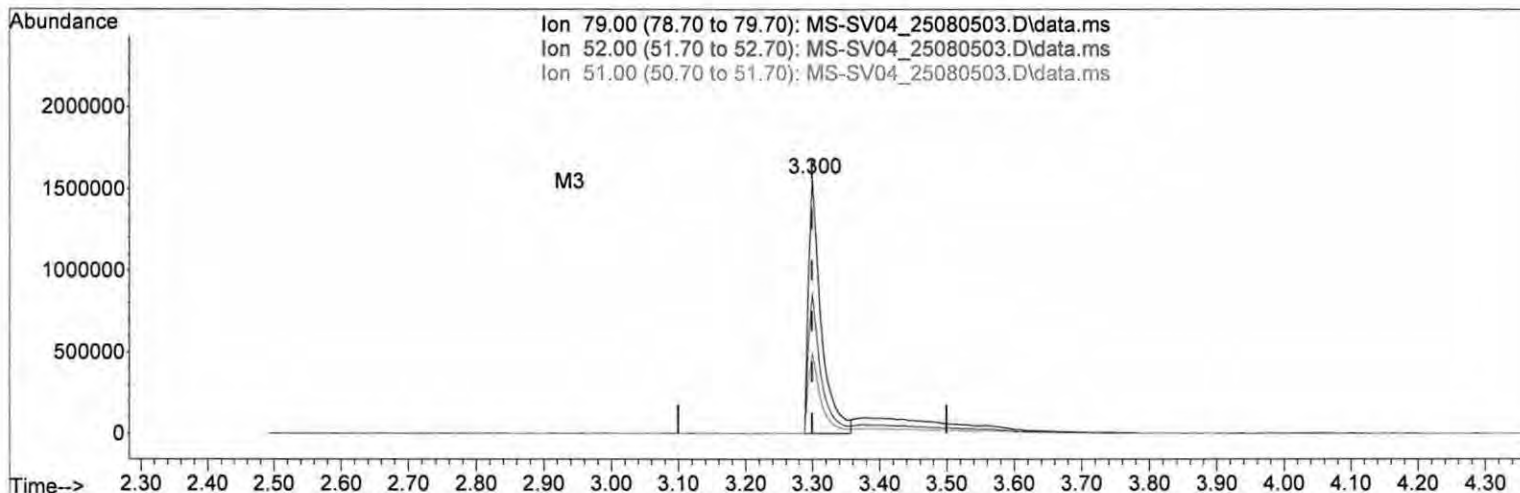
3.294min (-0.000) 39.10 ug/ml m

response 1783217

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(2) Pyridine (T)

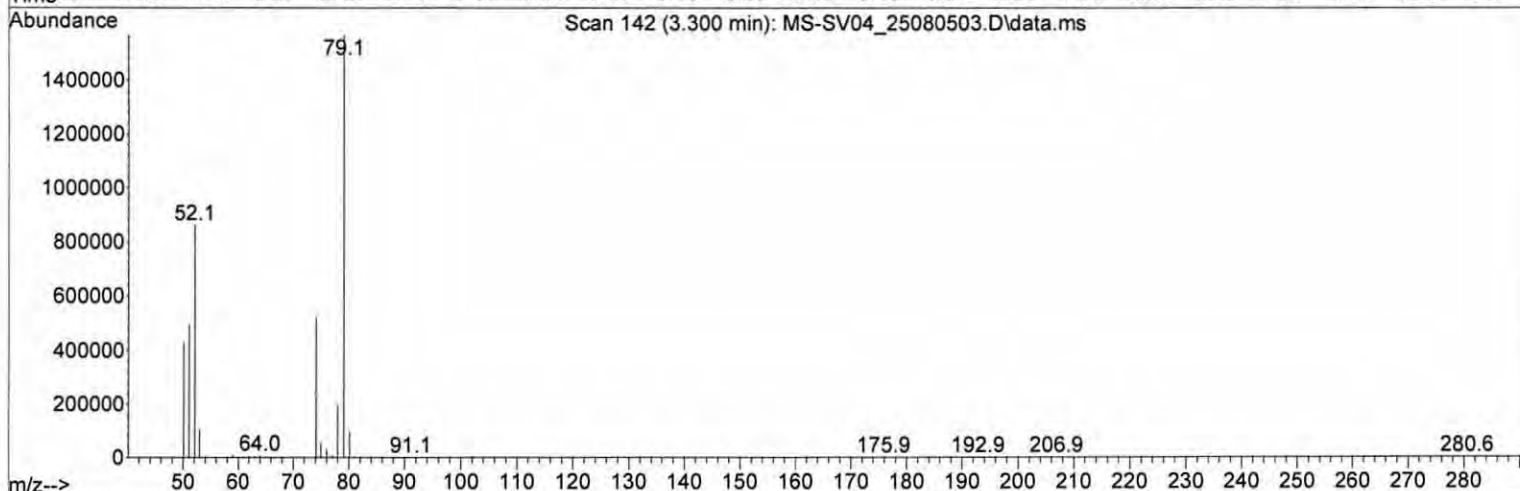
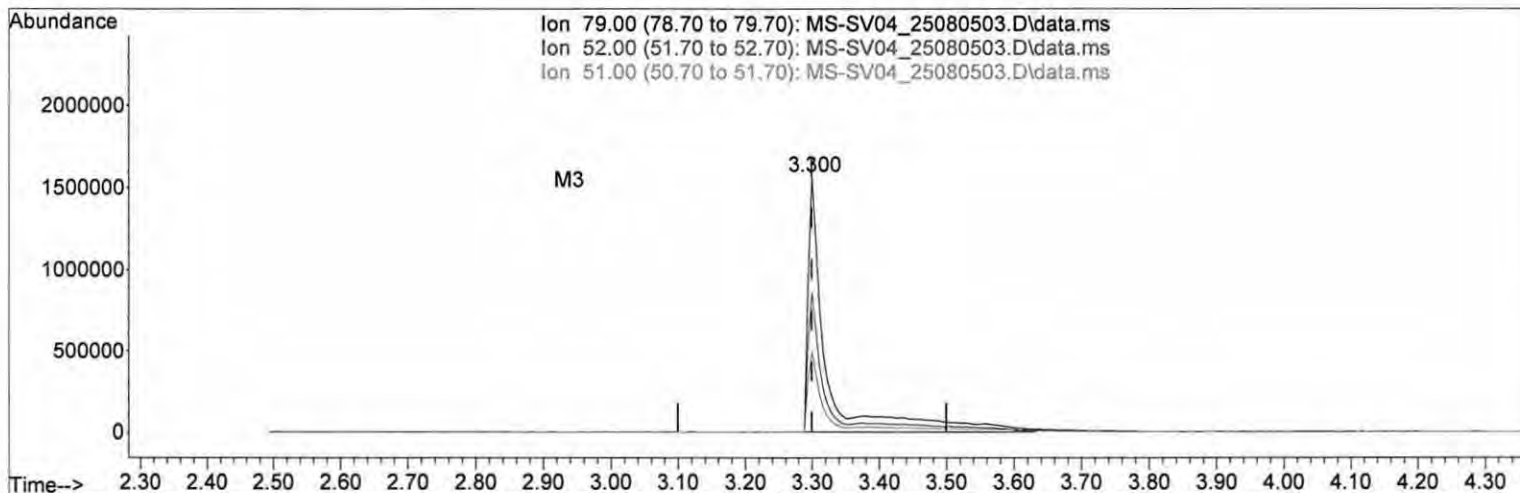
3.300min (-0.000) 25.54 ug/ml

response 2059731

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.80#
51.00	62.40	30.98#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(2) Pyridine (T)

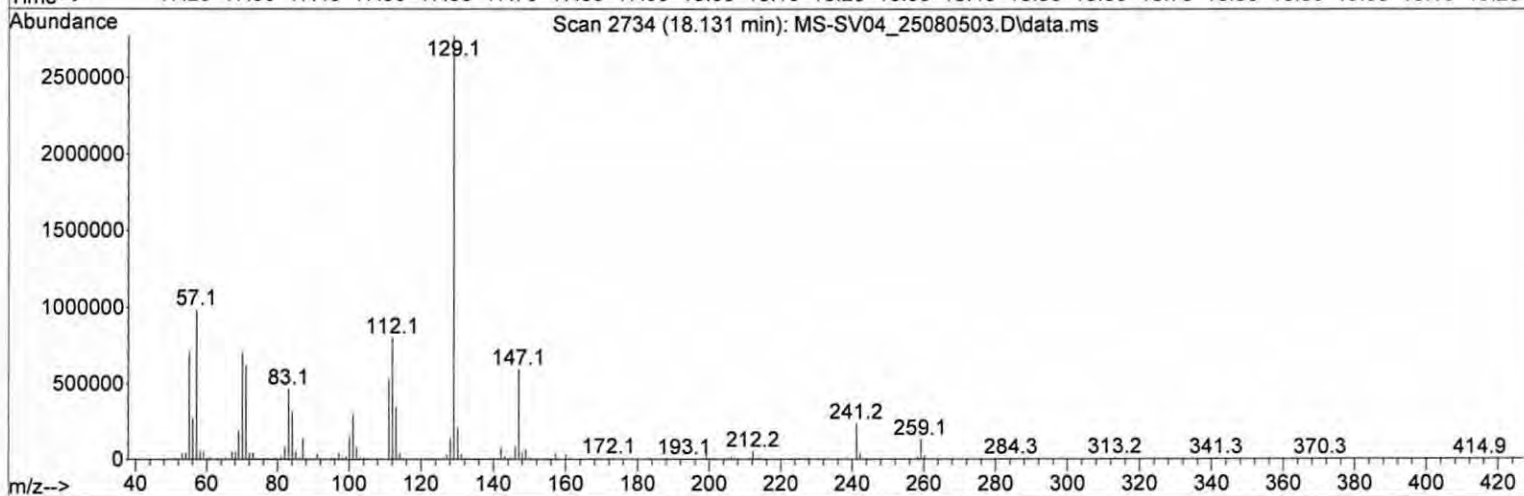
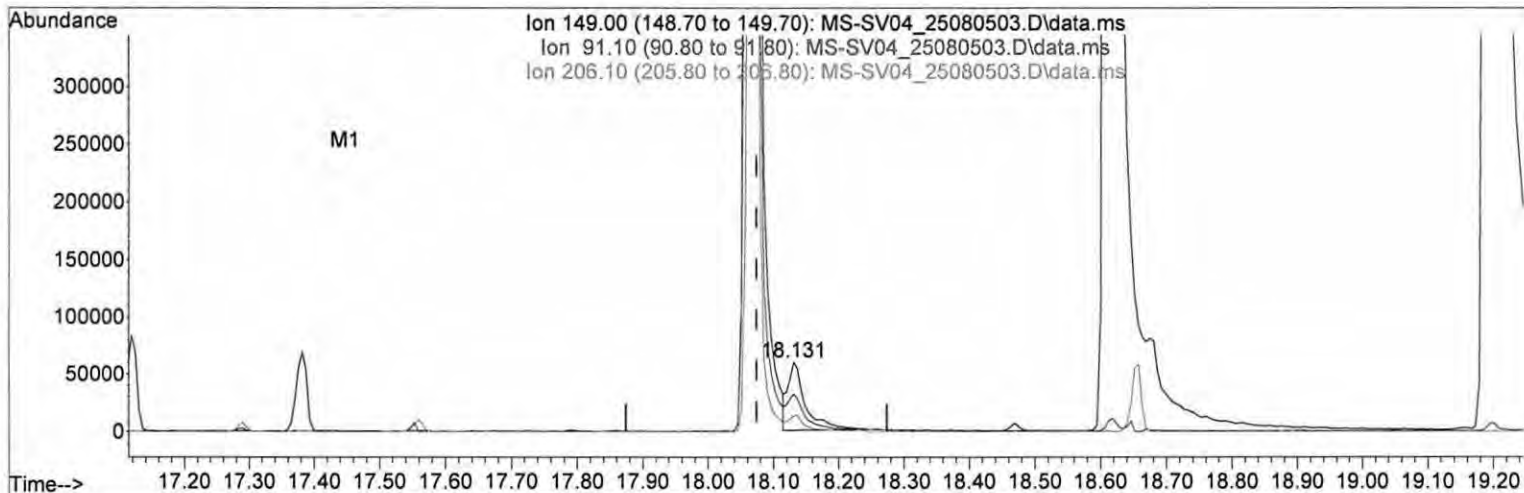
3.300min (-0.000) 38.18 ug/ml m

response 3078957

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	36.66#
51.00	62.40	20.72#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(76) Butyl benzyl phthalate (T)

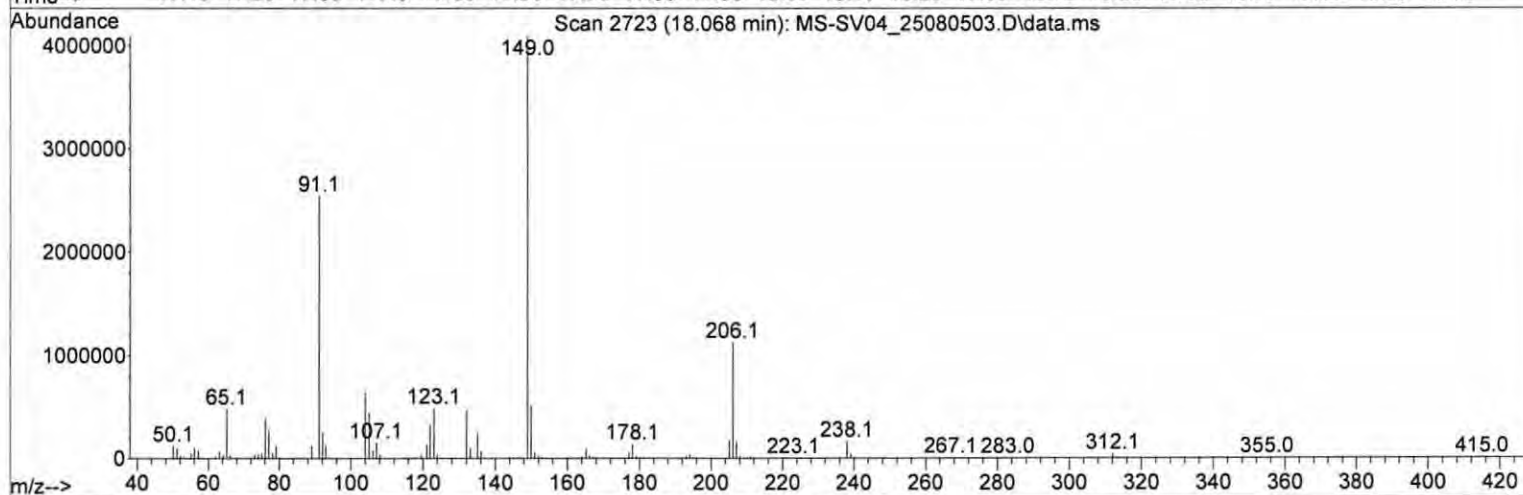
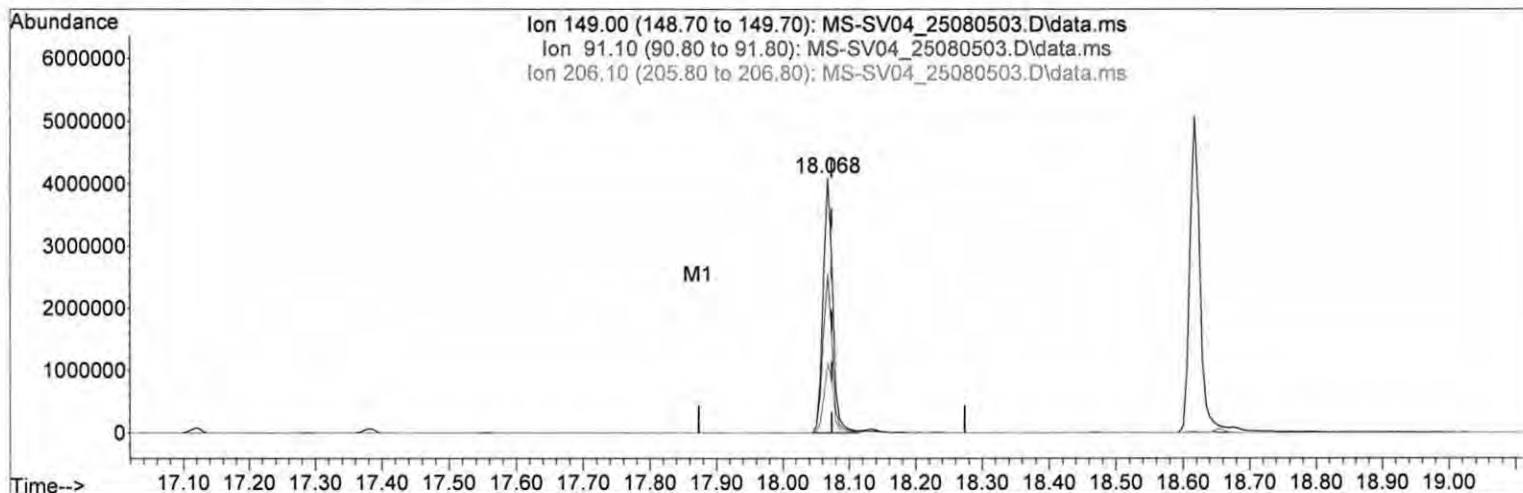
18.131min (+ 0.057) 2.87 ug/ml

response 111648

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	51.76
206.10	20.30	19.91
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(76) Butyl benzyl phthalate (T)

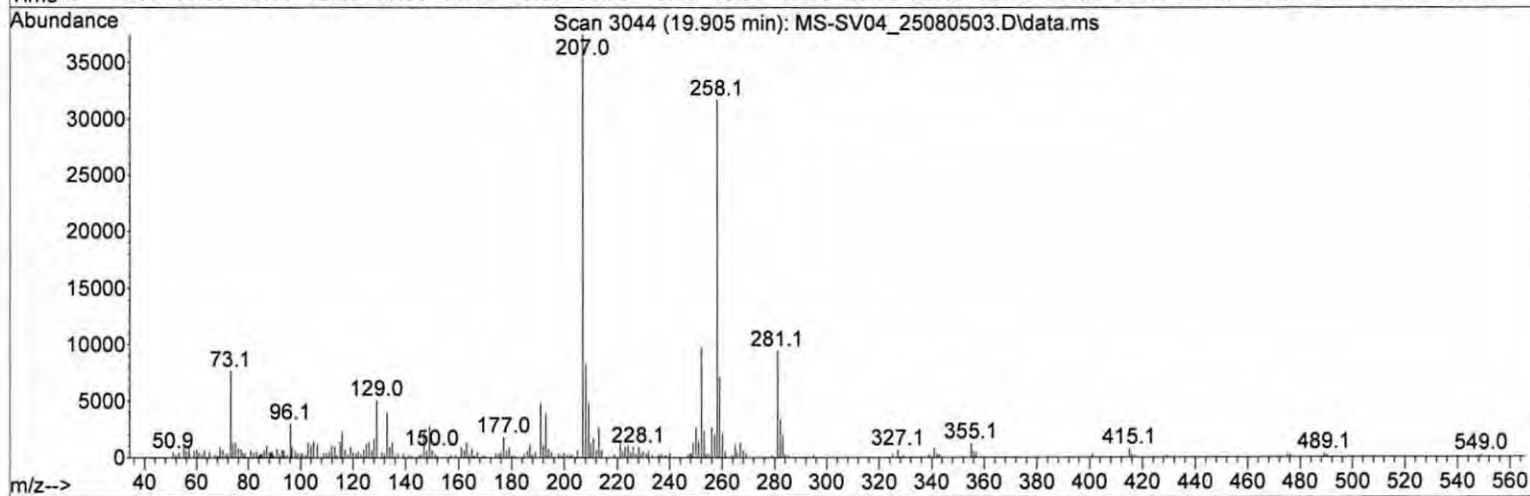
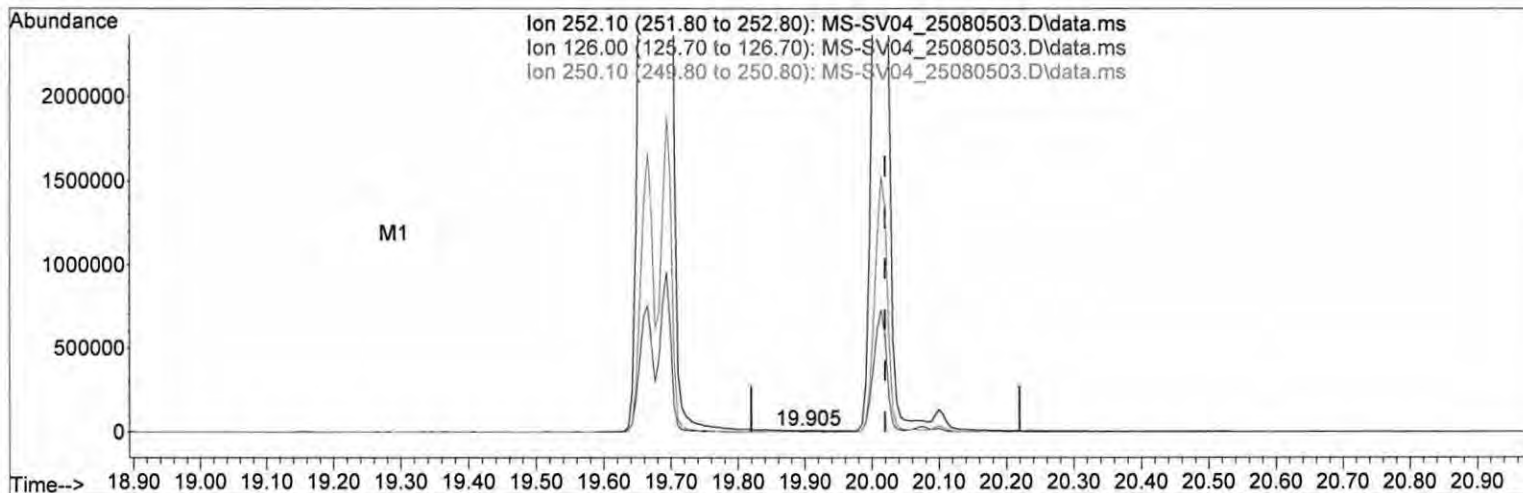
18.068min (-0.006) 39.78 ug/ml m

response 4046724

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.20	1.43#
206.10	20.30	0.55#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(85) Benzo (a) pyrene (T)

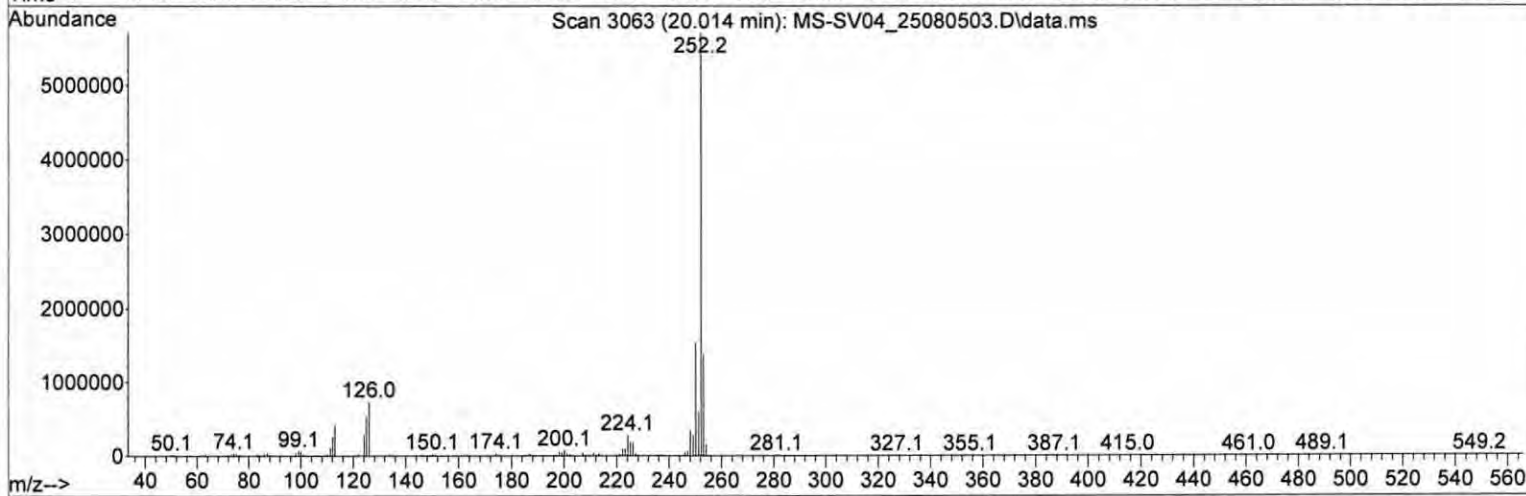
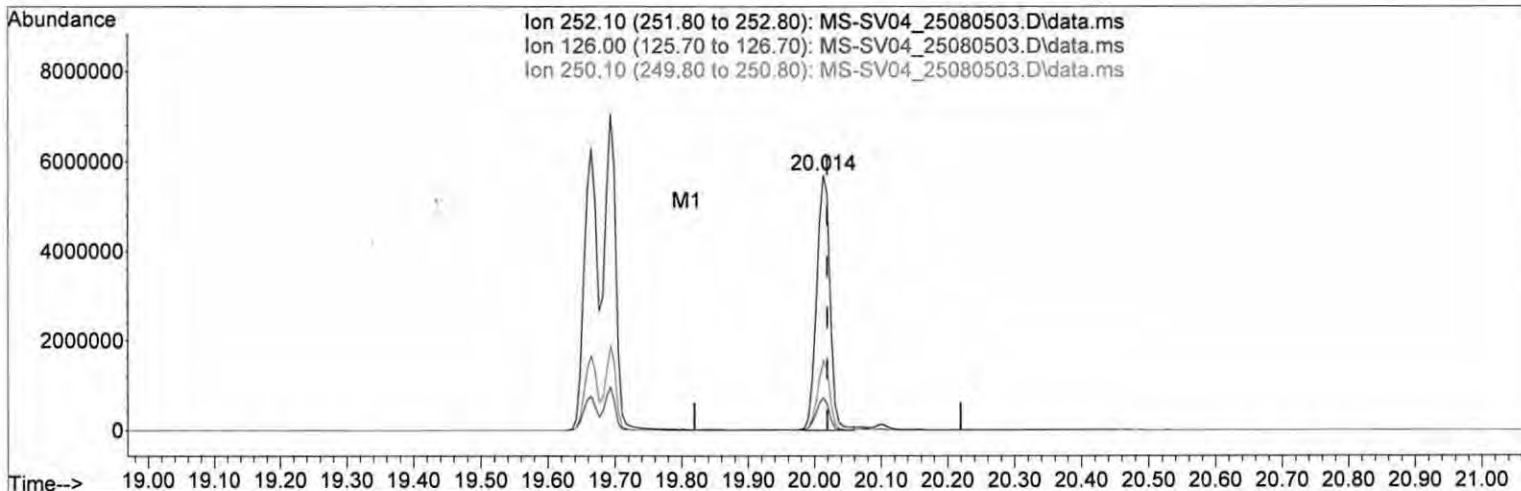
19.905min (-0.115) 0.02 ug/ml

response 3683

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	17.30	15.64
250.10	24.20	22.54
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080503.D
Acq On : 05 Aug 2025 01:15 pm
Operator : BMS
Sample : SEQ-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:23:52 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080503.D\data.ms

(85) Benzo (a) pyrene (T)

20.014min (-0.006) 42.00 ug/ml m

response 7927789

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	17.30	0.01#
250.10	24.20	0.01#
0.00	0.00	0.00

CONTINUING CALIBRATION VERIFICATION

420 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04 Calibration: AG50329
Lab File ID: MS-SV04_25080504.D Calibration Date: 07/18/25 08:00
Sequence: SIH0223 Injection Date: 08/05/25
Lab Sample ID: SIH0223-CCV2 Injection Time: 13:44

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV	% Rec		
1,2,4,5-Tetrachlorobenzene	A	40.0	39.5	40.22444	39.75295	98.8	80	120
1-Naphthylamine	A	40.0	42.8	87.49258	93.60872	107	80	120
2,6-Dichlorophenol	A	40.0	41.9	27.80058	29.10425	105	80	120
2-Naphthylamine	A	40.0	43.8	38.56364	42.23029	110	80	120
3-Methylcholanthrene	A	40.0	42.5	55.90993	59.42472	106	80	120
4-Aminobiphenyl	A	40.0	36.6	66.68284	61.0134	91.5	80	120
7,12-Dimethylbenz (a) anthracene	A	40.0	41.8	56.64473	59.16708	104	80	120
Acetophenone	A	40.0	38.2	101.5678	96.95607	95.4	80	120
Dibenz (a,j) acridine	L	40.0	42.5	72.40876	82.76442	106	80	120
Ethyl methanesulfonate	A	40.0	38.1	51.4255	48.98145	95.2	80	120
Methyl methanesulfonate	A	40.0	36.4	40.97664	37.26298	90.9	80	120
n-Nitrosodi-n-butylamine	A	40.0	41.8	59939.71	56705.3	104	80	120
n-Nitrosopiperidine	A	40.0	40.9	37.74653	38.56291	102	80	120
p-(Dimethylamino) azobenzene	A	40.0	39.8	35.63853	35.42524	99.4	80	120
Pentachloronitrobenzene (quintozene)	A	40.0	40.0	11.92977	11.93618	100	80	120
Phenacetin	L	40.0	40.4	28.47645	33.04585	101	80	120
Pronamide	A	40.0	37.8	38.55093	36.48071	94.6	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080504.D
 Acq On : 05 Aug 2025 01:44 pm
 Operator : BMS
 Sample : SEQ-CCV2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
 Quant Title : Semivolatile Appendix IX Compounds Calibration
 Qlast Update : Mon Aug 04 14:49:07 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	150	4220996	40.00	ug/ml	# 0.00
17) Naphthalene-d8	8.369	136	8619108	40.00	ug/ml	# 0.00
26) Acenaphthene-d10	12.111	164	5367685	40.00	ug/ml	0.00
36) Phenanthrene-d10	15.425	188	8260808	40.00	ug/ml	# 0.00
48) Chrysene-d12	18.652	240	6697775	40.00	ug/ml	0.00
55) Perylene-d12	20.077	264	7107795	40.00	ug/ml	# 0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.882	88	1354675m	38.51 ug/ml	
3) Ethyl methacrylate	3.797	69	2471436	39.58 ug/ml	98
4) 2-Picoline	4.158	93	3412983	39.92 ug/ml	95
5) N-Nitrosomethylethylamine	4.295	88	1516267	40.62 ug/ml#	75
6) Methyl methanesulfonate	4.633	80	1572869	36.37 ug/ml#	91
7) N-Nitrosodiethylamine	5.073	102	1593456	40.27 ug/ml#	54
8) Ethyl methanesulfonate	5.400	79	2067505	38.10 ug/ml	95
9) Benzaldehyde	5.783	106	2351974	37.71 ug/ml#	86
10) Pentachloroethane	5.955	167	1459684	39.53 ug/ml	95
11) Acetophenone	6.887	105	4092512	38.18 ug/ml#	88
12) N-Nitrosomorpholine	6.916	56	1410174	39.83 ug/ml#	46
13) N-Nitrosopyrrolidine	6.859	100	1580941	43.26 ug/ml	99
14) o-Toluidine	6.944	106	4318078	38.95 ug/ml	98
15) N-Nitrosopiperidine	7.397	114	1627739	40.87 ug/ml#	54
16) Phentermine	8.180	58	5329707m	43.65 ug/ml	
18) alpha Terpineol	8.432	59	1403932	35.64 ug/ml#	27
19) 2,6-Dichlorophenol	8.535	162	2508527	41.88 ug/ml#	91
20) Hexachloropropene	8.581	213	1977606	53.39 ug/ml	99
21) Caprolactam	9.199	55	1061682	42.60 ug/ml#	20
22) N-Nitrosodibutylamine	9.210	84	2268212	41.79 ug/ml#	47
23) 1,4-Phenylenediamine	9.222	108	1907536	39.22 ug/ml#	48
24) Isosafrole	9.634	162	2594910	38.82 ug/ml	94
25) 1,2,4,5-Tetrachloroben...	10.166	216	3426350	39.53 ug/ml	100
27) Safrole	10.767	162	2665282	39.86 ug/ml	94
28) Biphenyl	10.830	154	7113179	37.46 ug/ml	99
29) 1-Chloronaphthalene	10.898	162	5769682	38.07 ug/ml#	98
30) Diphenyl ether	11.070	170	4170869	37.52 ug/ml	94
31) 1,4-Naphthoquinone	11.259	158	1887292	41.63 ug/ml	90
32) Pentachlorobenzene	12.506	250	3231171	40.48 ug/ml	99
33) 1-Naphthylamine	12.775	143	5024621	42.80 ug/ml	94
34) 2-Naphthylamine	12.964	115	2266789	43.80 ug/ml	93
35) 5-Nitro-o-toluidine	13.462	152	1806512	44.65 ug/ml	95
37) Diallate	14.440	86	1837334	34.28 ug/ml	88
38) 1,3,5-Trinitrobenzene	14.440	75	1181722	43.06 ug/ml#	89
39) Phenacetin	14.543	108	2729854	40.40 ug/ml	94
40) Atrazine	15.007	200	1993122	36.50 ug/ml#	70
41) 4-Aminobiphenyl	15.121	169	5040200	36.60 ug/ml	97
42) Pentachloronitrobenzene	15.133	237	986025	40.02 ug/ml#	95
43) Pronamide	15.287	173	3013601	37.85 ug/ml#	86
44) 4-Nitroquinoline-N-oxide	16.615	190	326654	31.54 ug/ml	93
45) Methapyrilene	16.729	58	1779570	25.06 ug/ml#	49

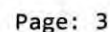
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Isodrin	16.935	193	1228553	35.88	ug/ml#	90
47) 3,3'-Dimethylbenzidine	18.062	212	3228420	36.27	ug/ml	99
49) Aramite A	17.536	185	431775	41.05	ug/ml#	61
50) Aramite B	17.622	185	906193	41.28	ug/ml#	69
51) p-Dimethylaminoazobenzene	17.713	120	2372703	39.76	ug/ml	90
52) Chlorobenzilate	17.759	251	3129493	41.51	ug/ml	89
53) Kepone	18.148	272	595419m	34.20	ug/ml	
54) 2-Acetylaminofluorene	18.326	181	3117018	41.17	ug/ml	97
56) 7,12-Dimethylbenz (a) ...	19.642	256	4205475	41.78	ug/ml	99
57) 3-Methylcholanthrene	20.391	268	4223787	42.51	ug/ml#	94
58) Dibenz (a,j) acridine	21.141	279	5882725	42.54	ug/ml#	94

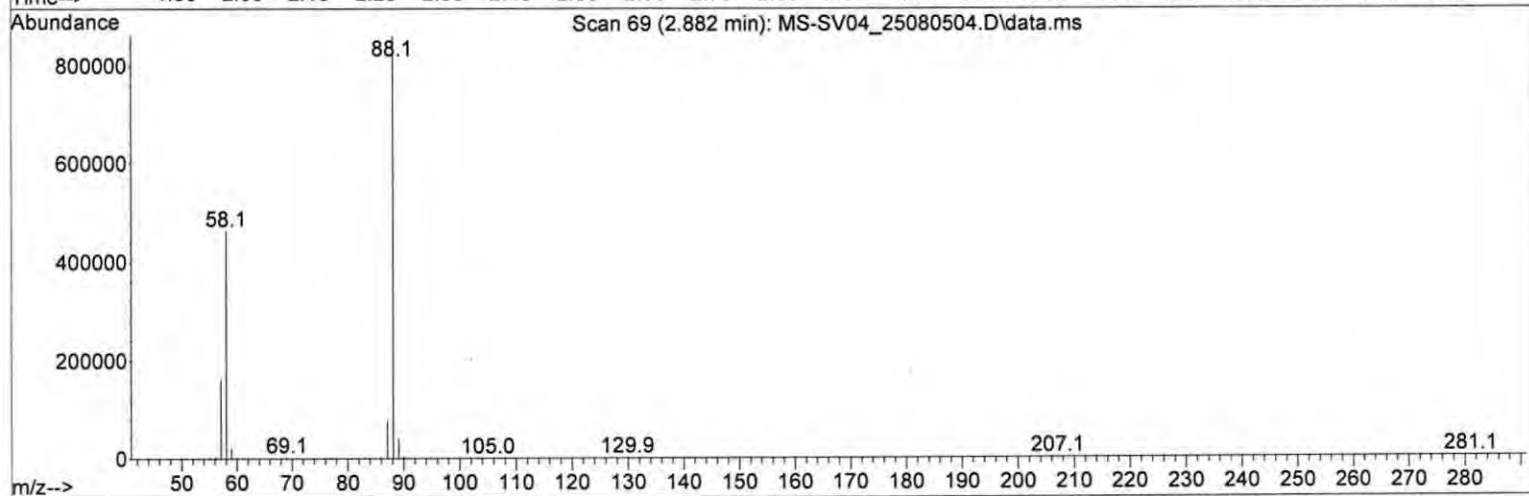
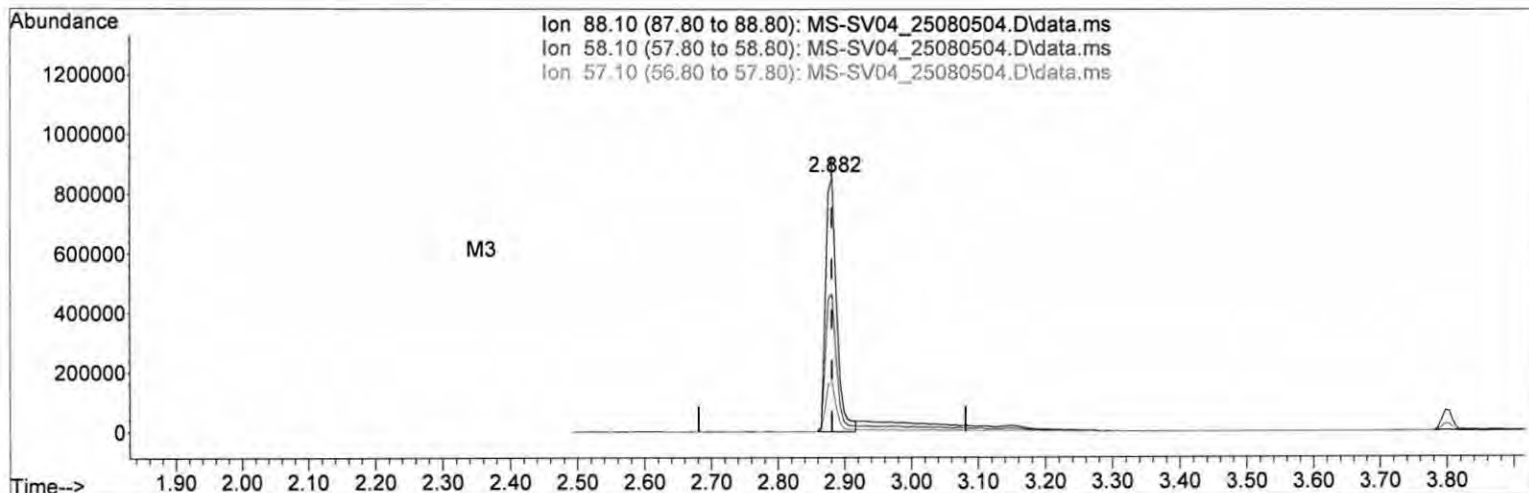
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(2) 1,4-Dioxane (T)

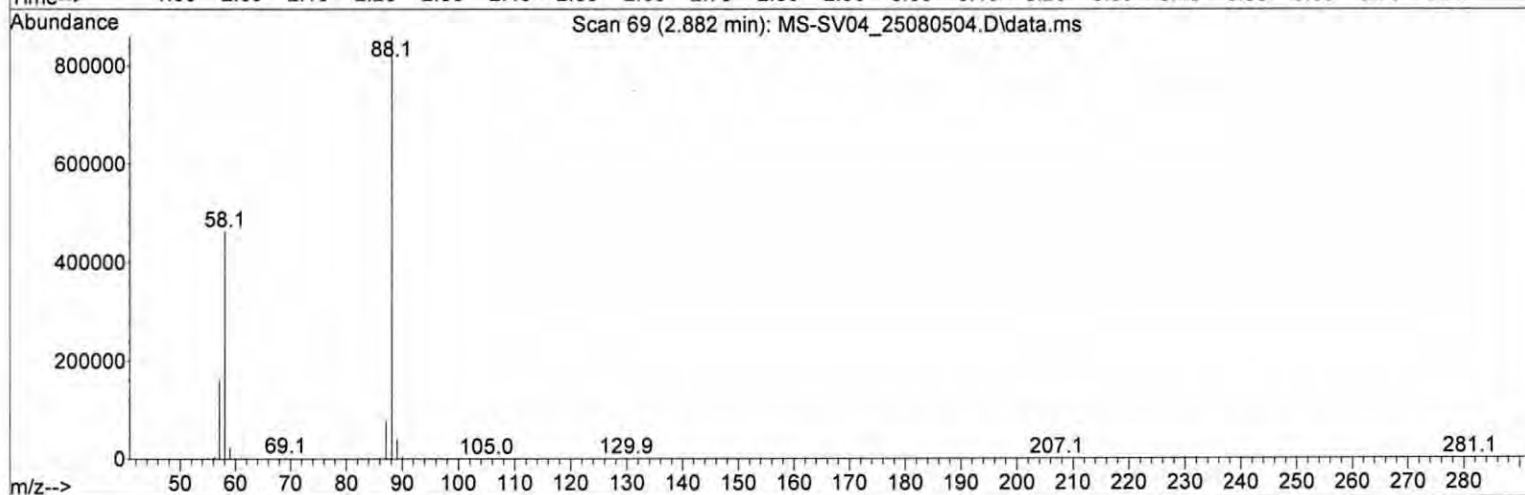
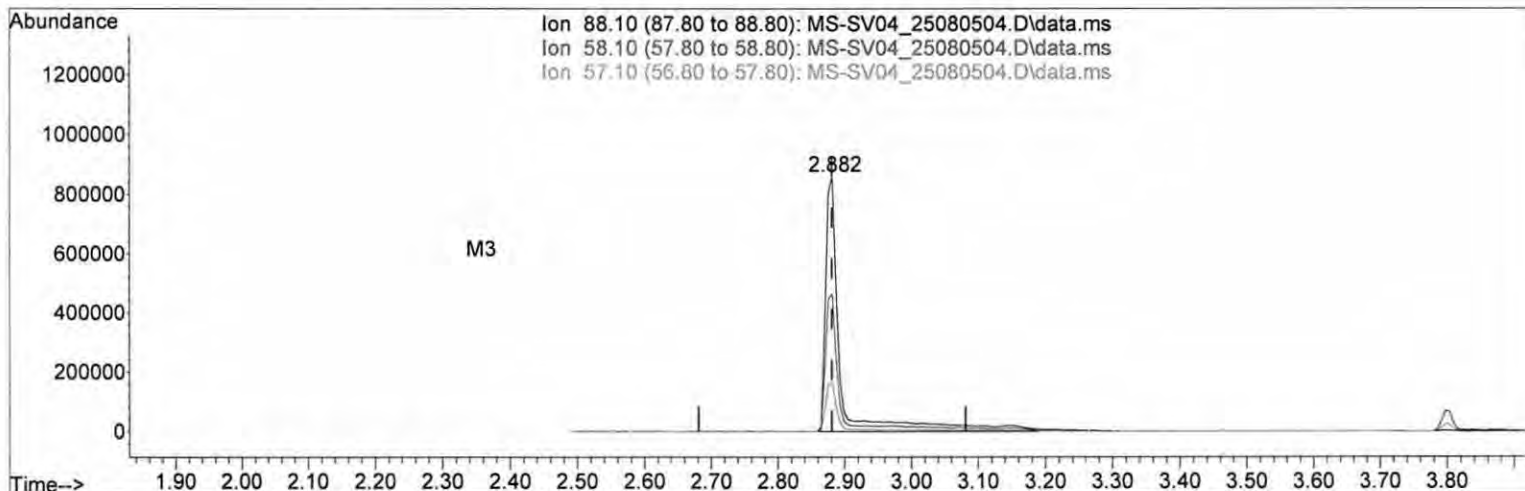
2.882min (+ 0.000) 27.80 ug/ml

response 977701

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.16#
57.10	37.00	20.53#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(2) 1,4-Dioxane (T)

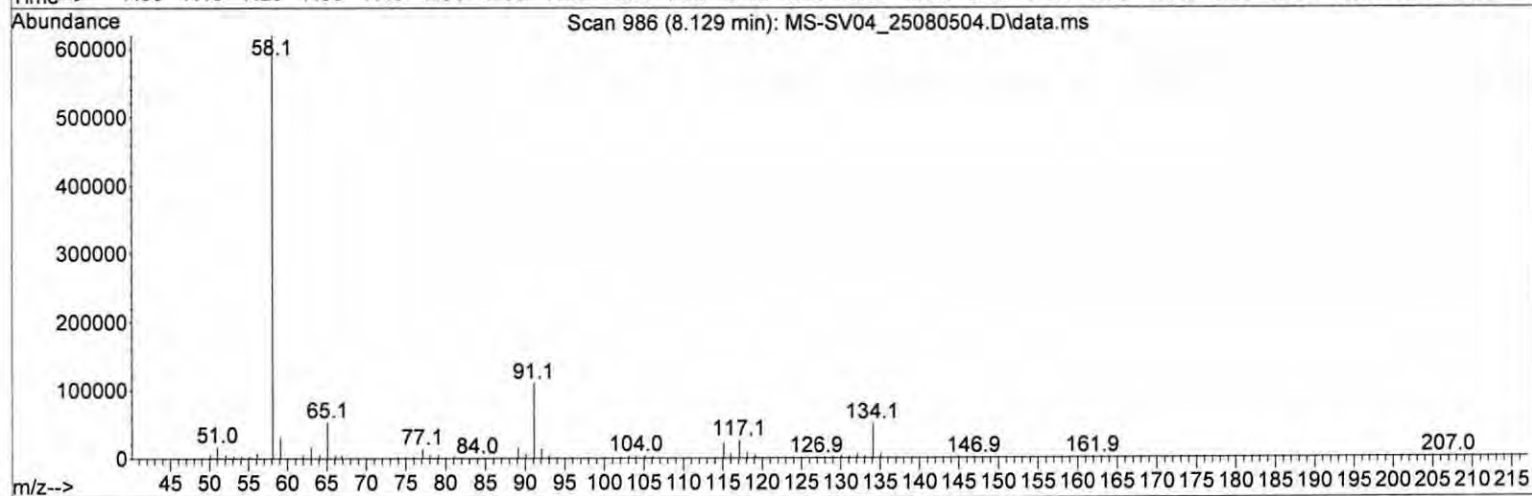
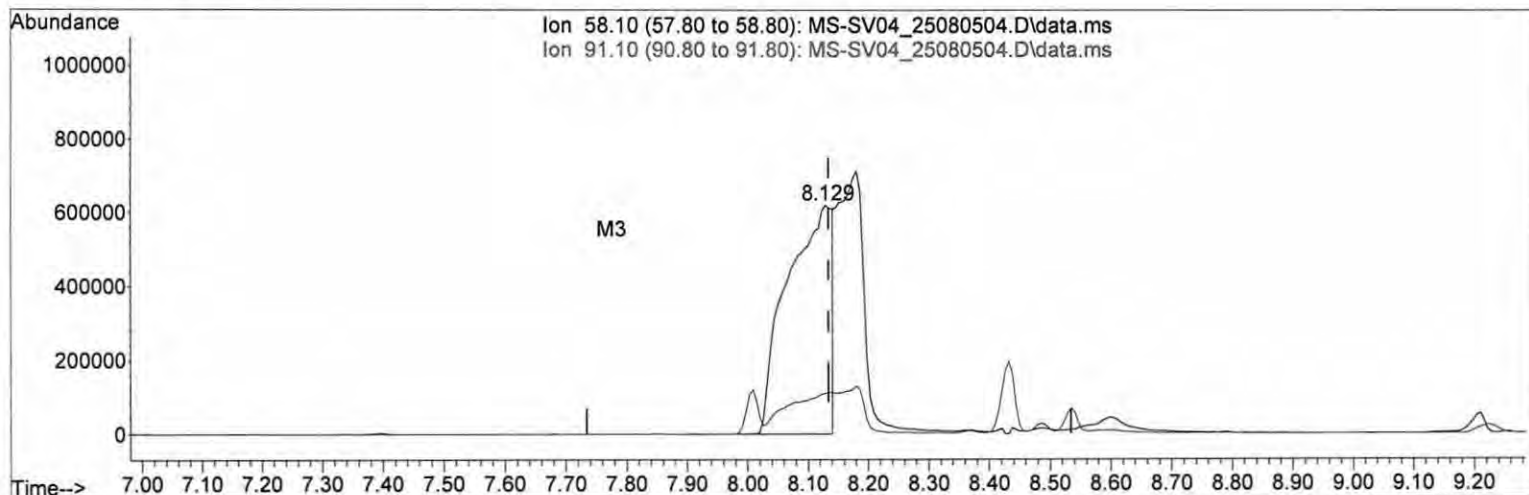
2.882min (+ 0.000) 38.51 ug/ml m

response 1354675

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	39.81#
57.10	37.00	14.81#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(16) Phentermine (T)

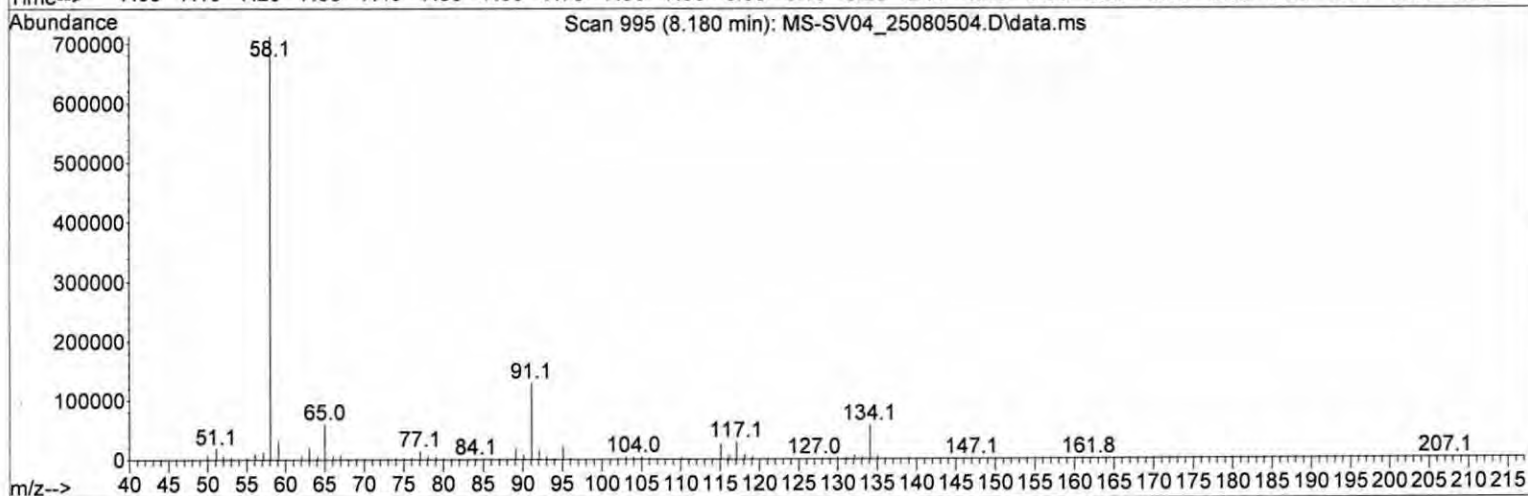
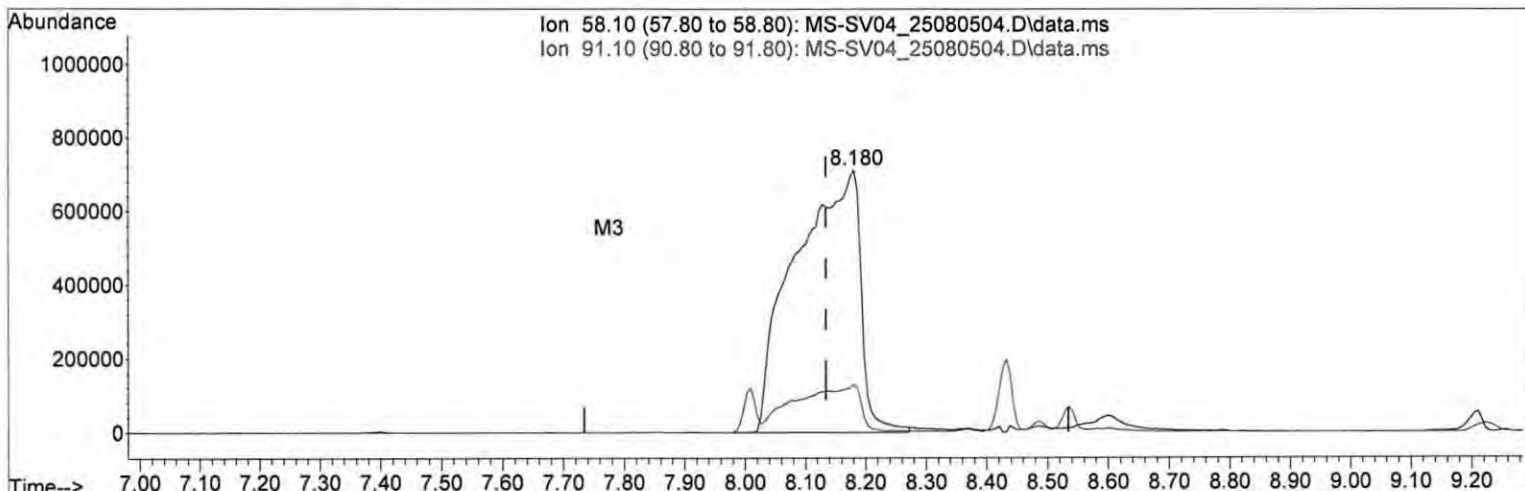
8.129min (-0.006) 27.16 ug/ml

response 3175976

Ion	Exp%	Act%
58.10	100.00	100.00
91.10	6.50	14.79#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(16) Phentermine (T)

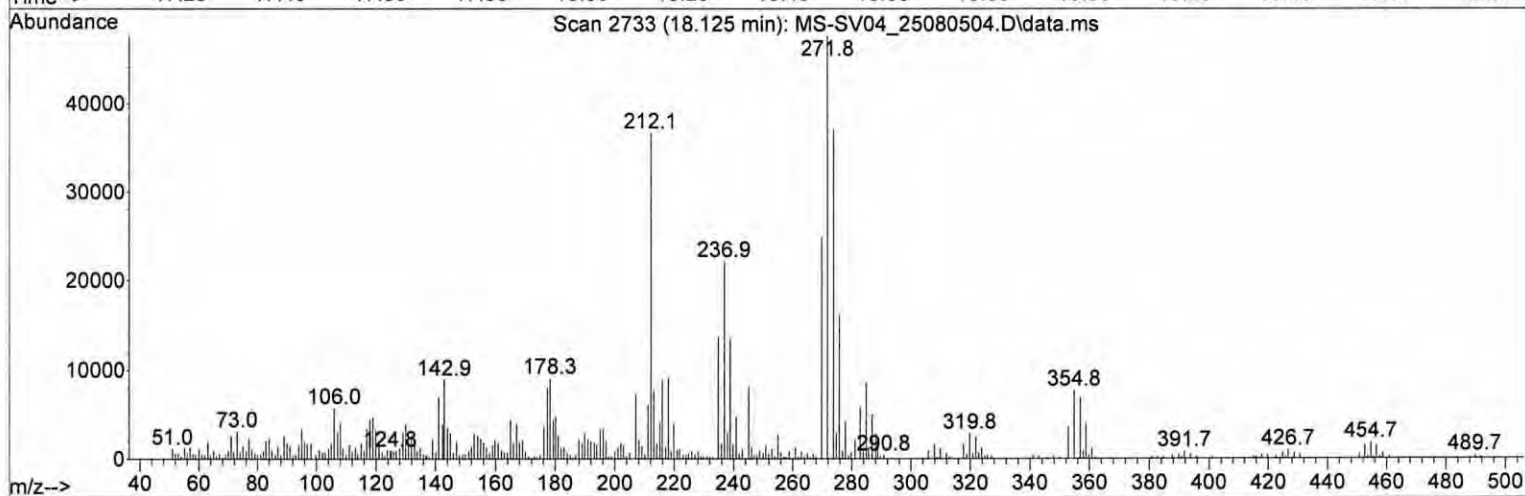
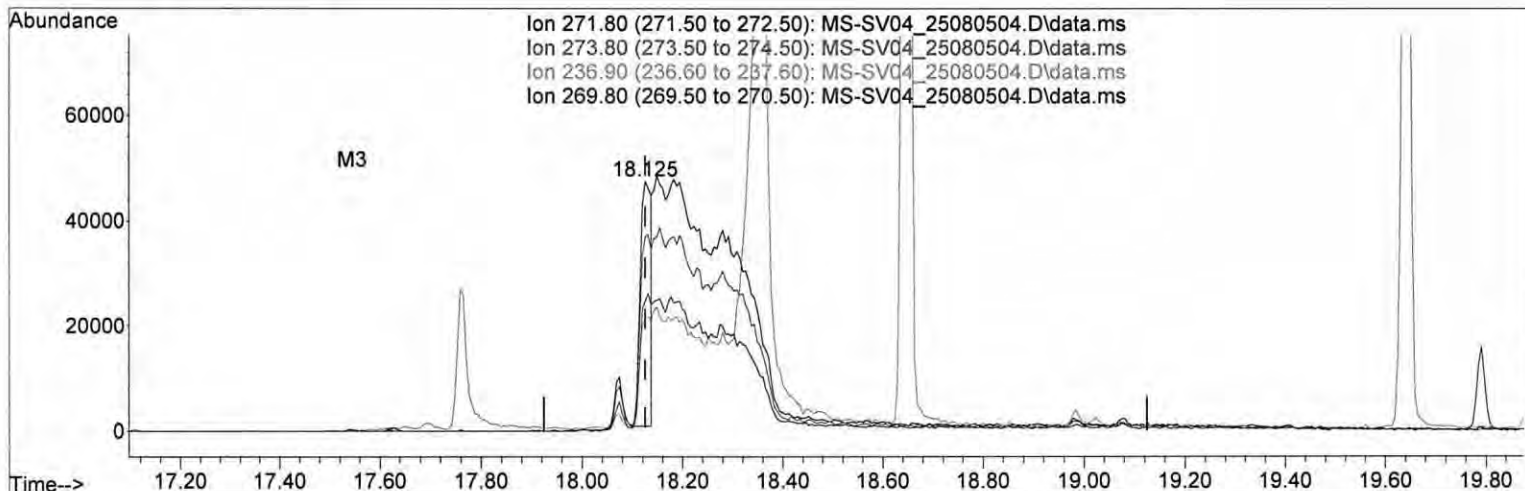
8.180min (+ 0.046) 43.65 ug/ml m

response 5329707

Ion	Exp%	Act%
58.10	100.00	100.00
91.10	6.50	8.81#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(53) Kepone (T)

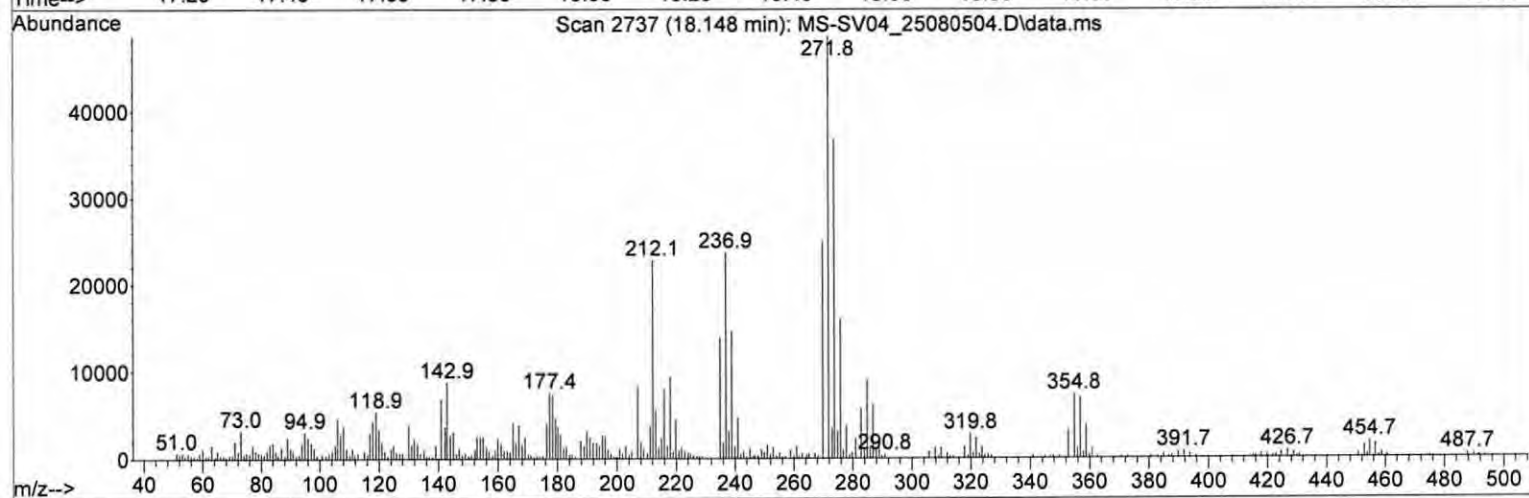
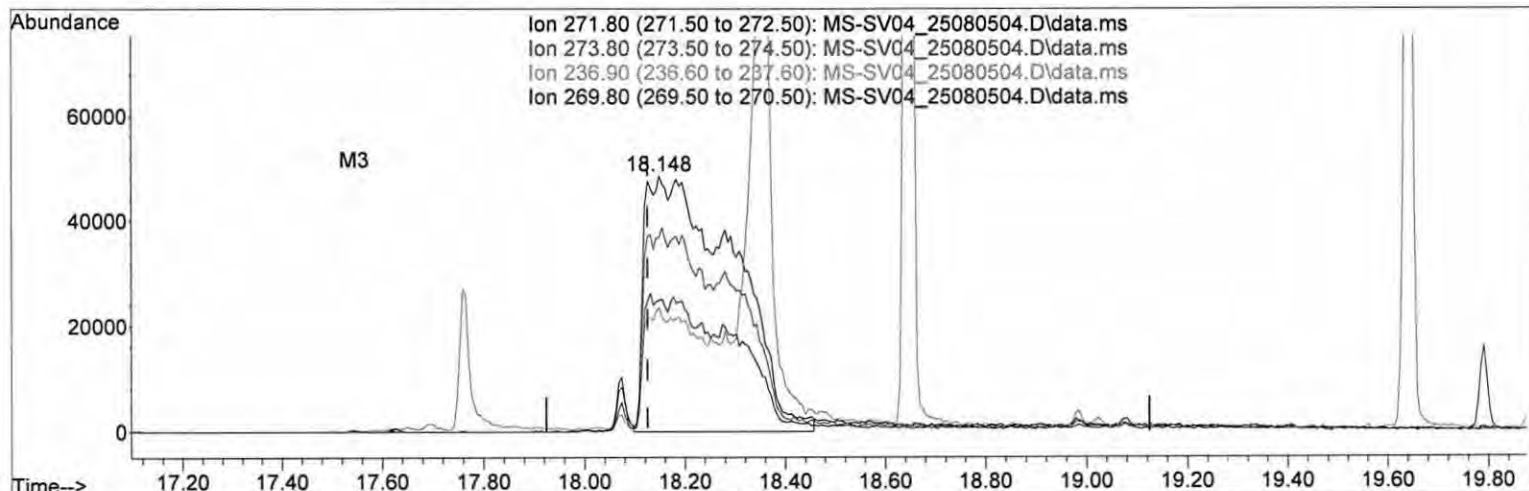
18.125min (+ 0.000) 4.06 ug/ml

response 70756

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	78.33
236.90	53.80	99.25#
269.80	10.10	65.26#

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080504.D
Acq On : 05 Aug 2025 01:44 pm
Operator : BMS
Sample : SEQ-CCV2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 14:37:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080504.D\data.ms

(53) Kepone (T)

18.148min (+ 0.023) 34.20 ug/ml m

response 595419

Ion	Exp%	Act%
271.80	100.00	100.00
273.80	86.60	9.31#
236.90	53.80	11.79#
269.80	10.10	7.76#

CONTINUING CALIBRATION VERIFICATION
SW8270E

Client:
Work Order:
Project:

Draper Aden Associates - Black
25H0034
HWMU 16

Instrument ID:
Lab File ID:
Sequence:
Lab Sample ID:

MS-SV04
MS-SV04_25080505.D
SIH0223
SIH0223-CCV3

Calibration:
Calibration Date:
Injection Date:
Injection Time:

AG50329
07/18/25 08:00
08/05/25
14:13

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR		% Rec	CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV			
3,3'-Dichlorobenzidine	L	40.0	43.5	34.09379	42.11801	109	80	120
Benzidine	L	40.0	43.5	45.76901	64.98743	109	80	120

A = Average Response Factor
Q = Quadratic Regression
L = Linear Regression
* Values outside of QC limits

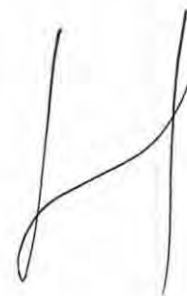
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080505.D
Acq On : 05 Aug 2025 02:13 pm
Operator : BMS
Sample : SEQ-CCV3
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 14:37:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

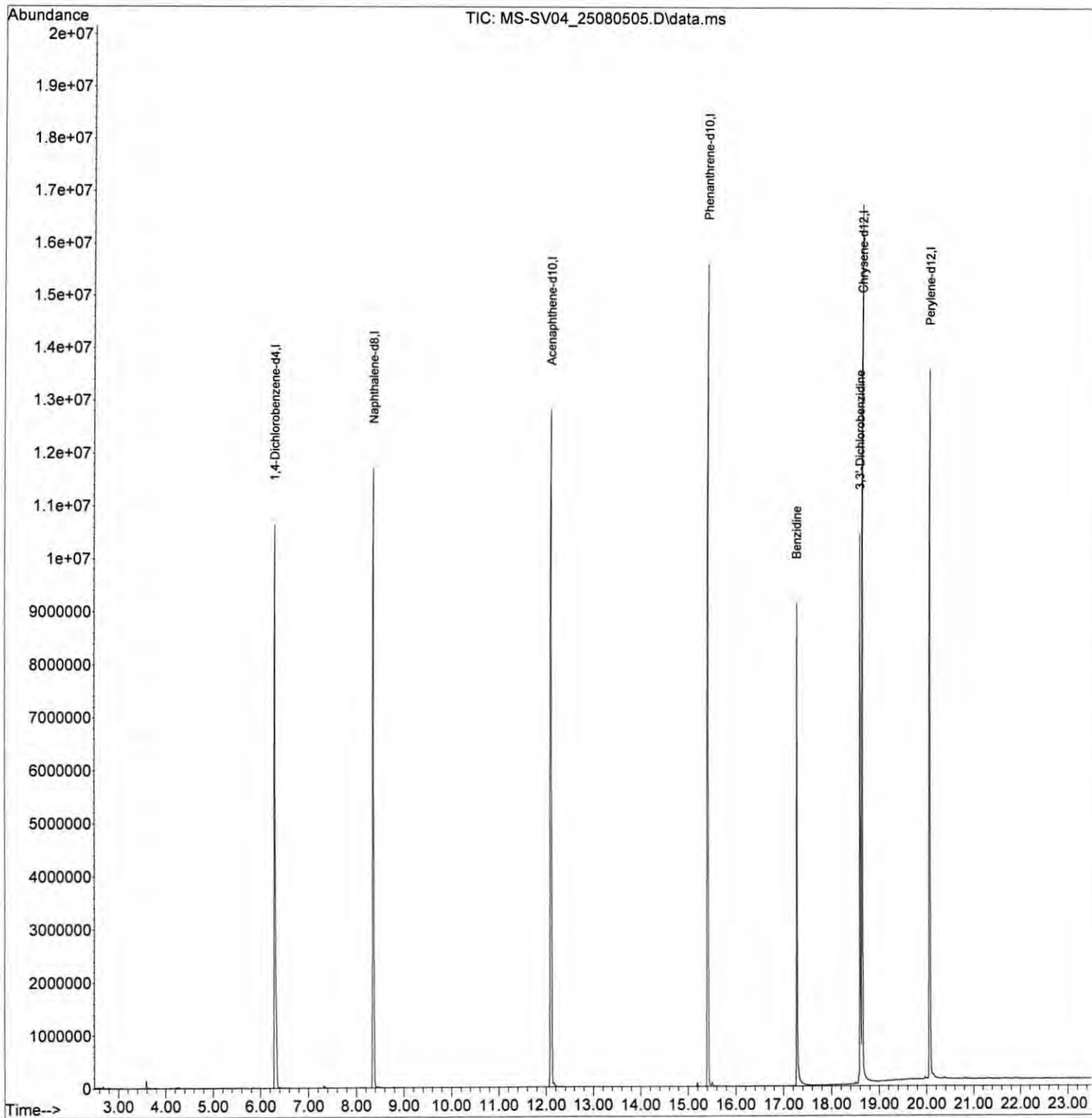
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2957803	40.00	ug/ml	0.00
2) Naphthalene-d8	8.370	136	9342483	40.00	ug/ml #	0.00
3) Acenaphthene-d10	12.112	164	5549543	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.419	188	8637699	40.00	ug/ml #	0.00
5) Chrysene-d12	18.646	240	6425349	40.00	ug/ml #	0.00
8) Perylene-d12	20.071	264	7082425	40.00	ug/ml	0.00
Target Compounds						Qvalue
6) Benzidine	17.285	184	4175669	43.53	ug/ml	98
7) 3,3'-Dichlorobenzidine	18.601	252	2706229	43.48	ug/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080505.D
Acq On : 05 Aug 2025 02:13 pm
Operator : BMS
Sample : SEQ-CCV3
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 14:37:55 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration



CONTINUING CALIBRATION VERIFICATION

433 of 521

SW8270E

Client: Draper Aden Associates - Black
Work Order: 25H0034
Project: HWMU 16

Instrument ID: MS-SV04

Calibration: AG50329

Lab File ID: MS-SV04_25080507.D

Calibration Date: 07/18/25 08:00

Sequence: SIH0223

Injection Date: 08/05/25

Lab Sample ID: SIH0223-CCV5

Injection Time: 15:10

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			CCV Lower Limit	Upper Limit
		STD	CCV	ICAL	CCV	% Rec		
2-Methylnaphthalene	A	5.00	5.45	71.57006	84.30759	109	80	120
Acenaphthene	A	5.00	4.93	115.6824	124.0731	98.6	80	120
Acenaphthylene	A	5.00	5.02	164.3588	194.7238	100	80	120
Anthracene	A	5.00	5.66	106.9532	122.8523	113	80	120
Benzo (a) anthracene	A	5.00	5.04	140.0542	128.5193	101	80	120
Benzo (a) pyrene	L	5.00	4.85	79.86335	98.44343	97.0	80	120
Benzo (b) fluoranthene	A	5.00	5.66	91.32467	120.4327	113	80	120
Benzo (g,h,i) perylene	A	5.00	4.91	84.50899	100.2637	98.2	80	120
Benzo (k) fluoranthene	A	5.00	4.75	109.6477	126.5959	95.0	80	120
Chrysene	A	5.00	4.96	131.9259	142.9404	99.2	80	120
Dibenz (a,h) anthracene	A	5.00	5.30	76.02293	97.07564	106	80	120
Fluoranthene	A	5.00	5.21	108.6768	139.9609	104	80	120
Fluorene	A	5.00	5.96	120.0614	137.1745	119	80	120
Indeno (1,2,3-cd) pyrene	A	5.00	5.20	97.85816	120.6168	104	80	120
Naphthalene	A	5.00	4.72	119.3478	124.9728	94.4	80	120
Phenanthrene	A	5.00	4.83	120.8841	127.5915	96.6	80	120
Pyrene	A	5.00	5.23	143.3391	180.2971	105	80	120

A = Average Response Factor

Q = Quadratic Regression

L = Linear Regression

* Values outside of QC limits

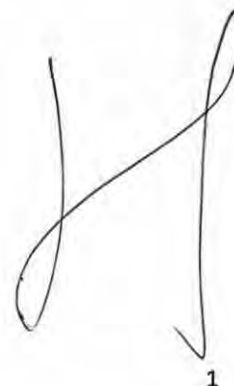
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 Data File : MS-SV04_25080507.D
 Acq On : 05 Aug 2025 03:10 pm
 Operator : BMS
 Sample : SEQ-CCV5
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 15:51:50 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 15:54:18 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

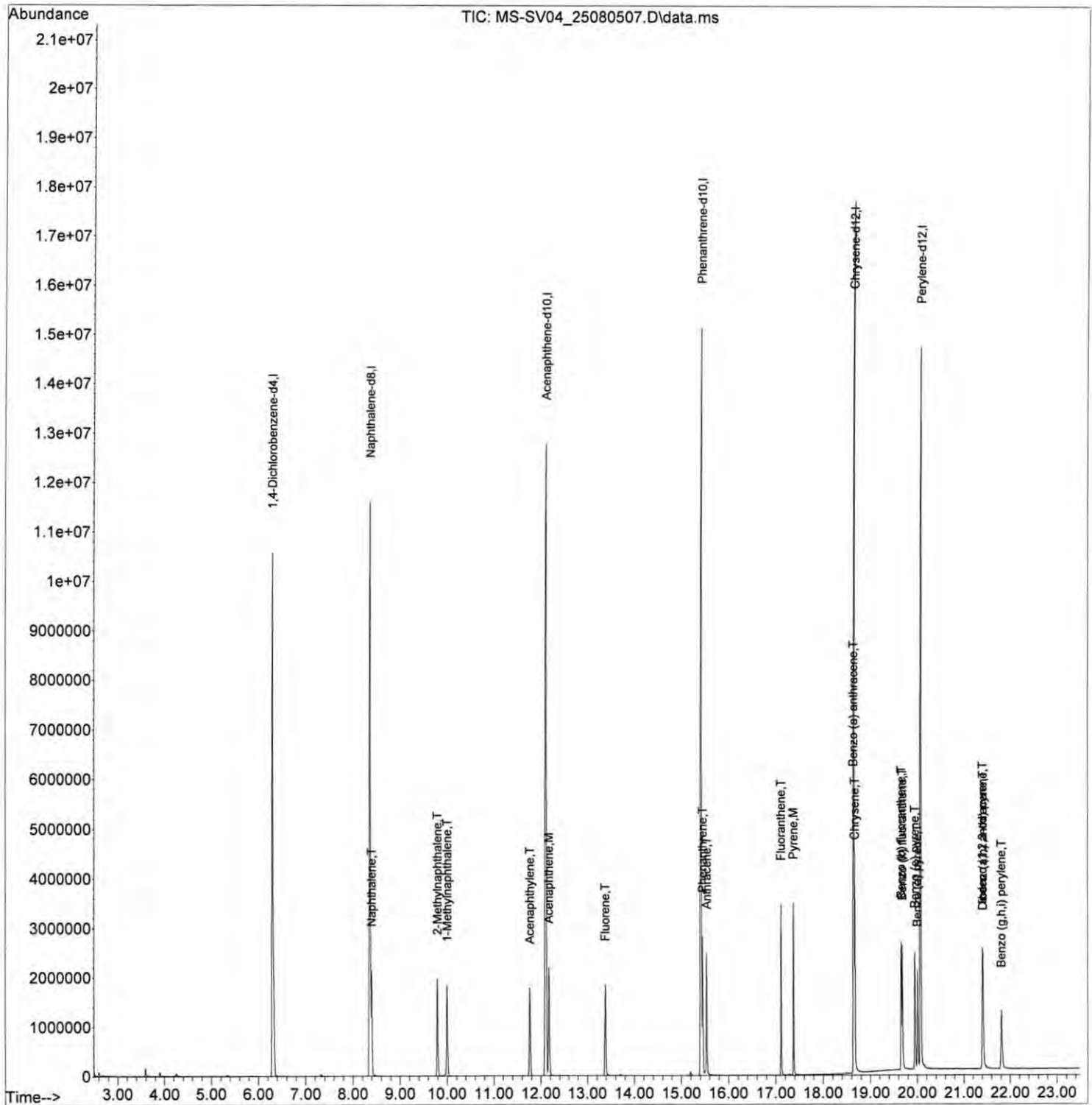
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	3030130	40.00	ug/ml	0.00
2) Naphthalene-d8	8.370	136	9392758	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	12.112	164	5566814	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.419	188	8622000	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.652	240	6967711	40.00	ug/ml	0.00
18) Perylene-d12	20.077	264	7695368	40.00	ug/ml	0.00
Target Compounds						Qvalue
3) Naphthalene	8.404	128	1467299	4.72	ug/ml	99
4) 2-Methylnaphthalene	9.794	142	989851	5.45	ug/ml	97
5) 1-Methylnaphthalene	10.000	142	893663	5.44	ug/ml	92
7) Acenaphthylene	11.768	152	1354989	5.02	ug/ml	99
8) Acenaphthene	12.175	154	863365	4.93	ug/ml	98
9) Fluorene	13.382	166	954531	5.96	ug/ml	99
11) Phenanthrene	15.453	178	1375117	4.83	ug/ml	99
12) Anthracene	15.539	178	1324041	5.66	ug/ml	99
13) Fluoranthene	17.113	202	1508429	5.21	ug/ml	98
15) Pyrene	17.376	202	1570323	5.23	ug/ml	100
16) Benzo (a) anthracene	18.635	228	1119357	5.04	ug/ml	99
17) Chrysene	18.669	228	1244959	4.96	ug/ml	99
19) Benzo (b) fluoranthene	19.659	252	1158467	5.66	ug/ml	99
20) Benzo (k) fluoranthene	19.682	252	1217753	4.75	ug/ml#	98
21) Benzo (e) pyrene	19.951	252	1168241	5.71	ug/ml#	97
22) Benzo (a) pyrene	20.008	252	946948	4.85	ug/ml#	95
23) Indeno (1,2,3-cd) pyrene	21.410	276	1160238	5.20	ug/ml#	91
24) Dibenz (a,h) anthracene	21.416	278	933791	5.30	ug/ml#	96
25) Benzo (g,h,i) perylene	21.816	276	964458	4.91	ug/ml#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080507.D
Acq On : 05 Aug 2025 03:10 pm
Operator : BMS
Sample : SEQ-CCV5
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 05 15:51:50 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 15:54:18 2025
Response via : Initial Calibration



METHOD BLANK DATA SHEET

SW8270E

Client: Draper Aden Associates - Blacksburg

Work Order: 25H0034

Project: HWMU 16

Laboratory ID: BIH0165-BLK1

Prepared: 08/05/25 09:00

Preparation: SW3510C/EPA600-MS

Matrix: Non-Potable Water

Analyzed: 08/05/25 16:57

Instrument: MS-SV04

File ID: MS-SV04_25080509.D

Batch: BIH0165

Sequence: SIH0223

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
82-68-8	Pentachloronitrobenzene (quintozene)	ND	1.00	10.0	

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080509.D
 Acq On : 05 Aug 2025 04:57 pm
 Operator : BMS
 Sample : BIH0165-BLK1
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 09:23:56 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	3357787	40.00	ug/ml	0.00
21) Naphthalene-d8	8.369	136	10593048	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	6658343	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.419	188	10067291	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.652	240	7425382	40.00	ug/ml	0.00
81) Perylene-d12	20.077	264	8177281	40.00	ug/ml	0.00

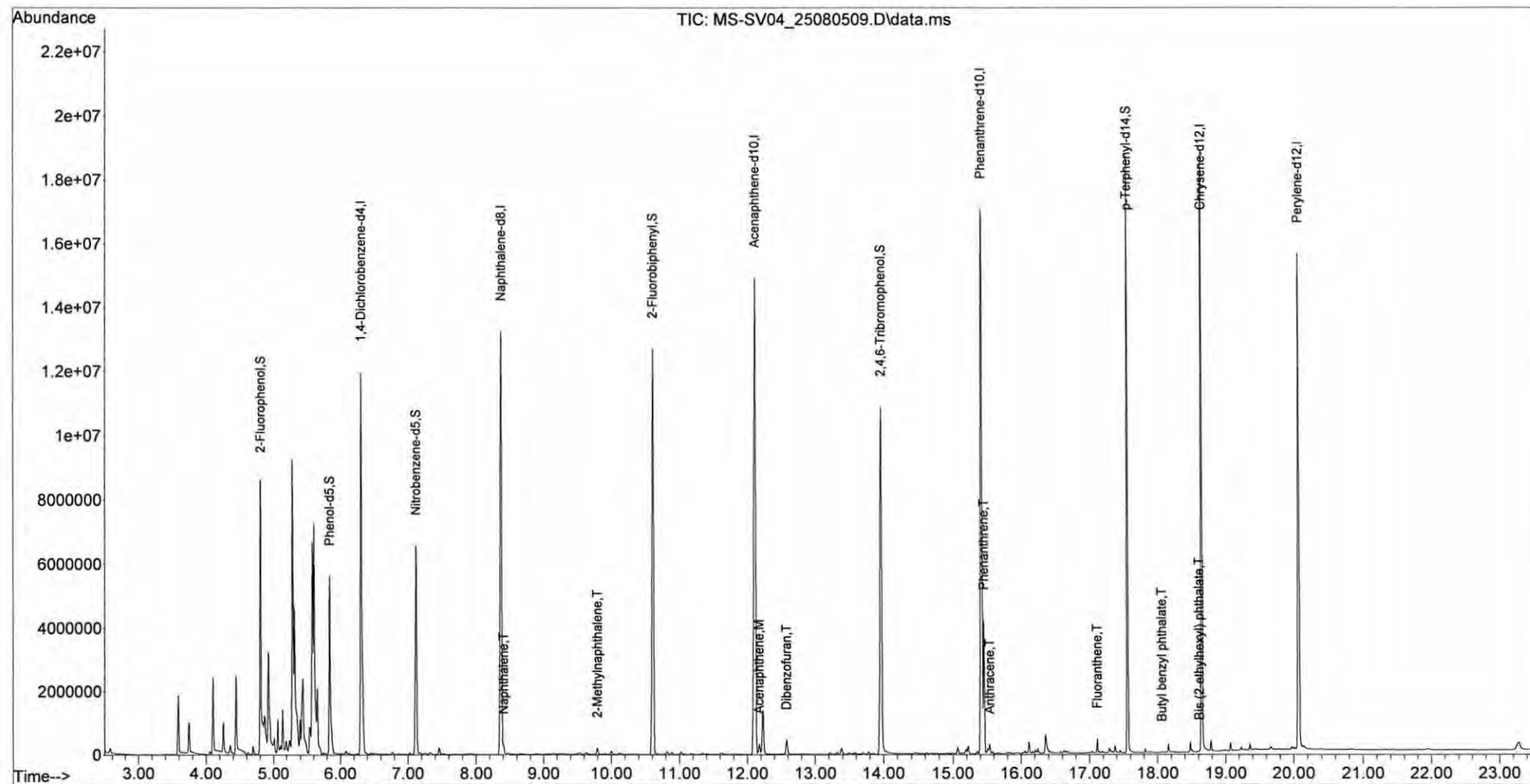
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4337221	39.92	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	39.92%
5) Phenol-d5	5.840	99	3321248	28.35	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	28.35%
19) Nitrobenzene-d5	7.116	82	3420942	35.44	ug/ml	-0.01
Spiked Amount	50.000	Range	10 - 99	Recovery	=	70.88%
39) 2-Fluorobiphenyl	10.607	172	7183289	30.16	ug/ml	-0.01
Spiked Amount	50.000	Range	23 - 87	Recovery	=	60.32%
64) 2,4,6-Tribromophenol	13.966	330	2952133	72.90	ug/ml	-0.01
Spiked Amount	100.000	Range	20 - 86	Recovery	=	72.90%
75) p-Terphenyl-d14	17.559	244	7146148	33.03	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	66.06%

Target Compounds				Qvalue	
29) Naphthalene	8.404	128	202527	0.73	ug/ml 99
33) 2-Methylnaphthalene	9.794	142	94030	0.54	ug/ml 98
49) Acenaphthene	12.175	154	118825	0.68	ug/ml 99
51) Dibenzofuran	12.575	168	335915	1.35	ug/ml 97
68) Phenanthrene	15.453	178	2014342	7.41	ug/ml 97
69) Anthracene	15.539	178	164153	0.62	ug/ml# 93
72) Fluoranthene	17.113	202	198270	0.70	ug/ml 97
76) Butyl benzyl phthalate	18.063	149	2326	1.84	ug/ml# 75
80) Bis (2-ethylhexyl) pht...	18.612	149	14447	1.23	ug/ml 95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 09:23:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080509.D
 Acq On : 05 Aug 2025 04:57 pm
 Operator : BMS
 Sample : BIH0165-BLK1
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 09:23:56 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	3357787	40.00	ug/ml	0.00
21) Naphthalene-d8	8.369	136	10593048	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	6658343	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.419	188	10067291	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.652	240	7425382	40.00	ug/ml	0.00
81) Perylene-d12	20.077	264	8177281	40.00	ug/ml	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4337221	39.92	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	39.92%		
5) Phenol-d5	5.840	99	3321248	28.35	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	28.35%		
19) Nitrobenzene-d5	7.116	82	3420942	35.44	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	70.88%		
39) 2-Fluorobiphenyl	10.607	172	7183289	30.16	ug/ml	-0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	60.32%		
64) 2,4,6-Tribromophenol	13.966	330	2952133	72.90	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	72.90%		
75) p-Terphenyl-d14	17.559	244	7146148	33.03	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	66.06%		

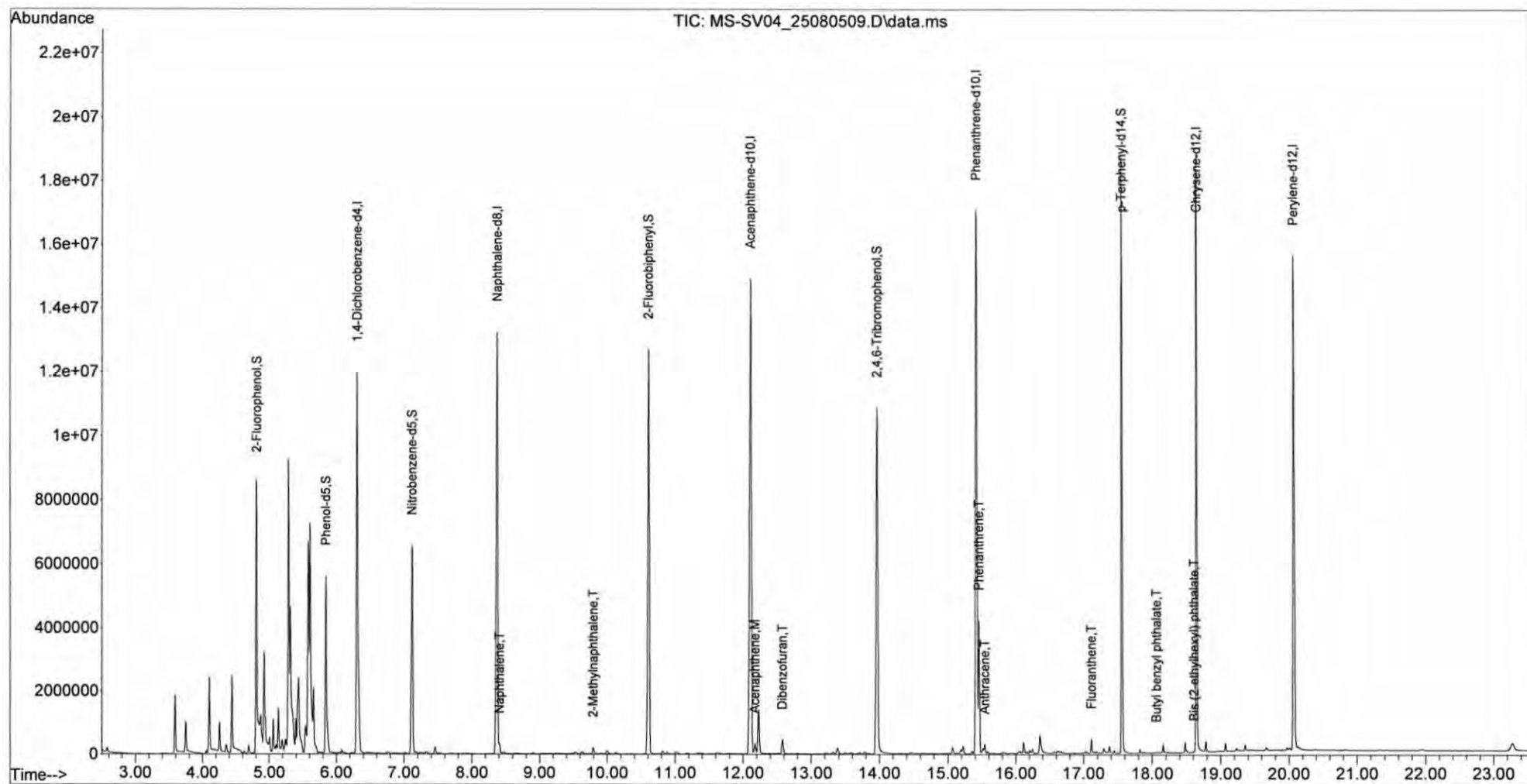
Target Compounds				Qvalue		
29) Naphthalene	8.404	128	202527	0.73	ug/ml	99
33) 2-Methylnaphthalene	9.794	142	94030	0.54	ug/ml	98
49) Acenaphthene	12.175	154	118825	0.68	ug/ml	99
51) Dibenzofuran	12.575	168	335915	1.35	ug/ml	97
68) Phenanthrene	15.453	178	2014342	7.41	ug/ml	97
69) Anthracene	15.539	178	164153	0.62	ug/ml#	93
72) Fluoranthene	17.113	202	198270	0.70	ug/ml	97
76) Butyl benzyl phthalate	18.063	149	2326	1.84	ug/ml#	75
80) Bis (2-ethylhexyl) pht...	18.612	149	14447	1.23	ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 09:23:56 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:21:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	3357787	40.00	ug/ml	0.00
2) Naphthalene-d8	8.369	136	10593048	40.00	ug/ml	# 0.00
3) Acenaphthene-d10	12.112	164	6658343	40.00	ug/ml	0.00
4) Phenanthrene-d10	15.419	188	10067291	40.00	ug/ml	# 0.00
5) Chrysene-d12	18.652	240	7423703	40.00	ug/ml	# 0.00
8) Perylene-d12	20.077	264	8174806	40.00	ug/ml	0.00

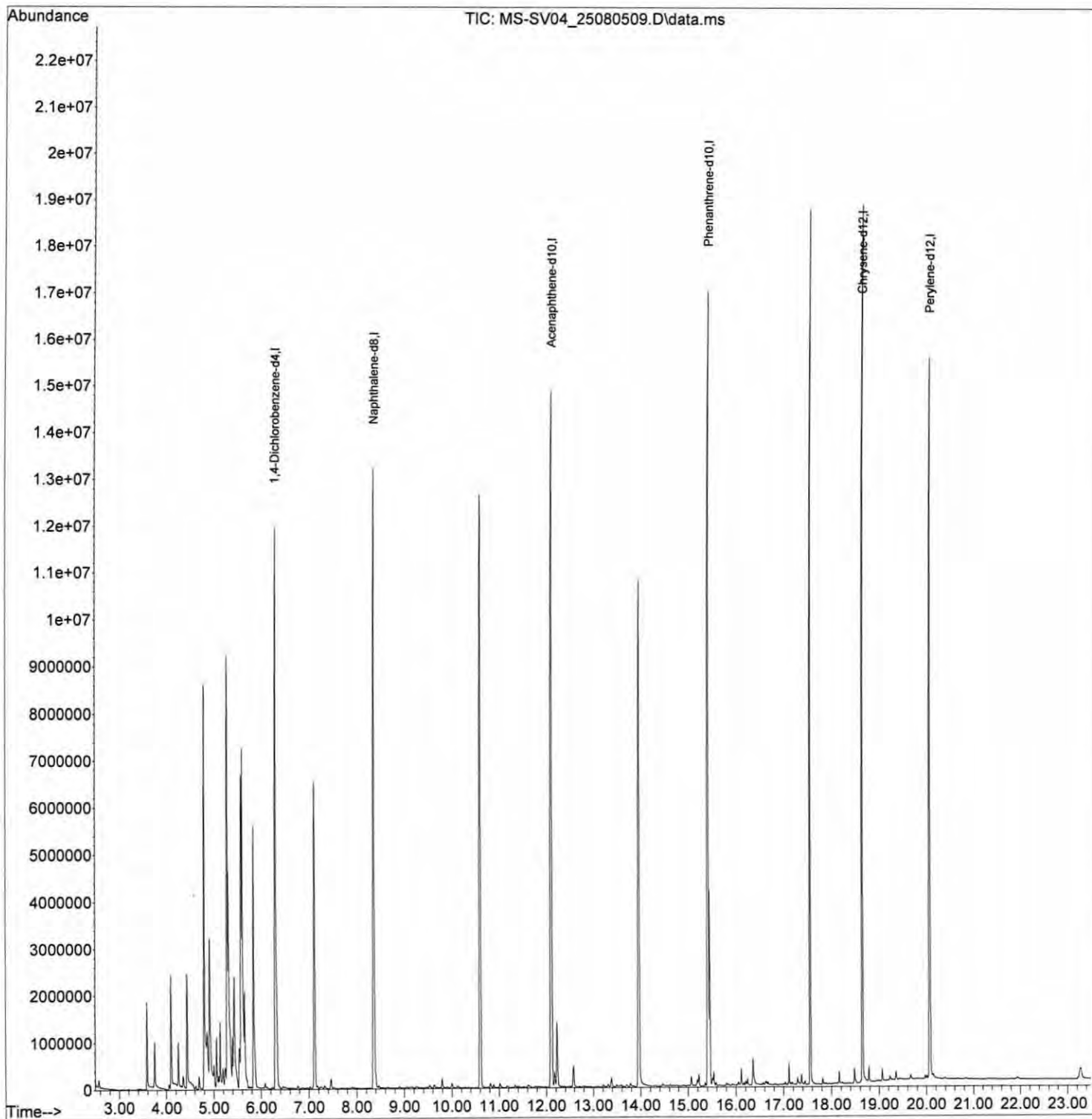
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:21:45 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080509.D
 Acq On : 05 Aug 2025 04:57 pm
 Operator : BMS
 Sample : BIH0165-BLK1
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:25:35 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 15:54:18 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

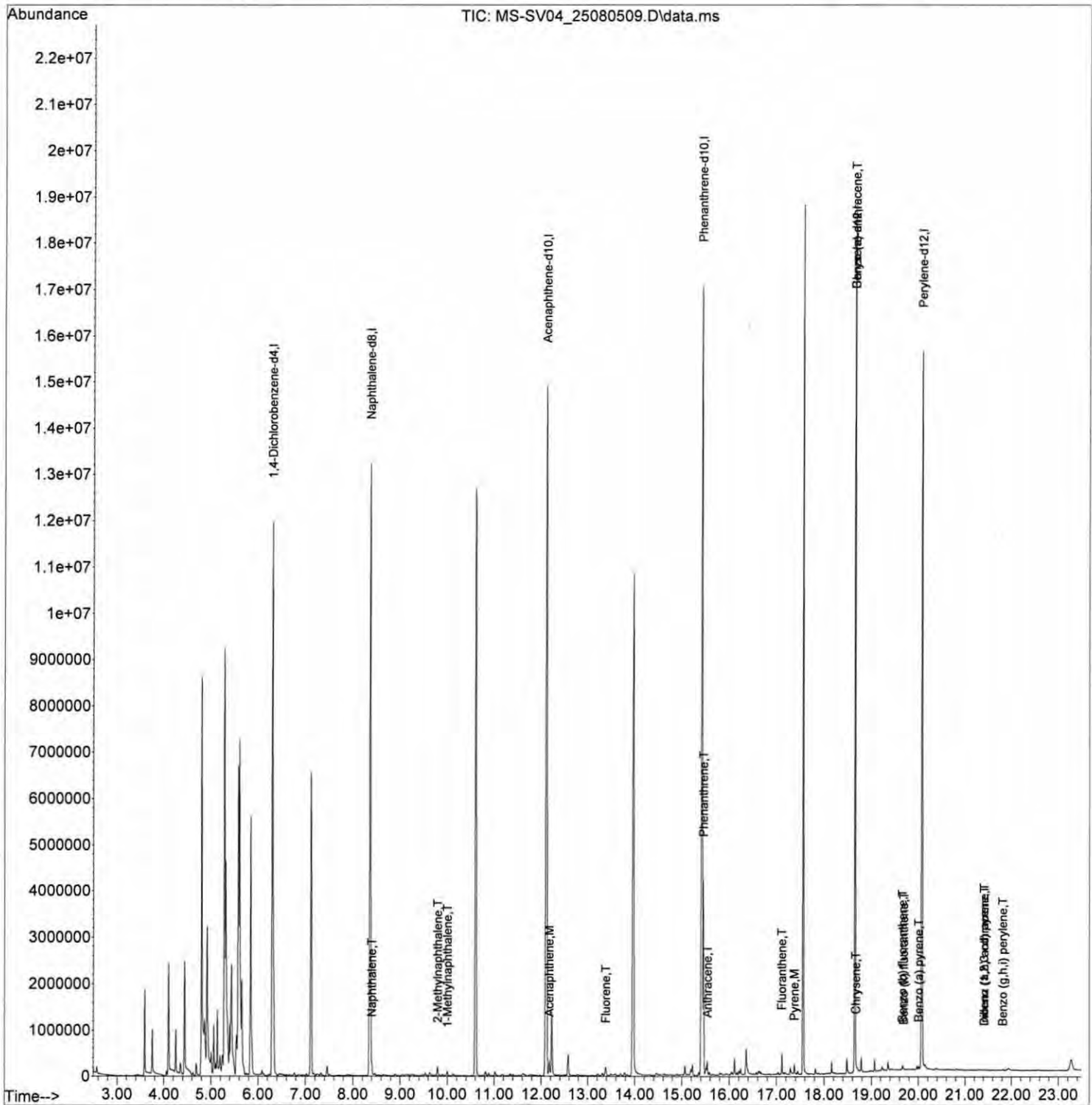
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	3357787	40.00	ug/ml	0.00
2) Naphthalene-d8	8.369	136	10593048	40.00	ug/ml	# 0.00
6) Acenaphthene-d10	12.112	164	6658343	40.00	ug/ml	0.00
10) Phenanthrene-d10	15.419	188	10067291	40.00	ug/ml	# 0.00
14) Chrysene-d12	18.652	240	7425382	40.00	ug/ml	# 0.00
18) Perylene-d12	20.077	264	8177281	40.00	ug/ml	0.00
Target Compounds				Qvalue		
3) Naphthalene	8.404	128	202527	0.58	ug/ml	99
4) 2-Methylnaphthalene	9.794	142	94030	0.46	ug/ml	96
5) 1-Methylnaphthalene	10.000	142	43704	0.24	ug/ml	93
8) Acenaphthene	12.175	154	118825	0.57	ug/ml	96
9) Fluorene	13.382	166	94423	0.49	ug/ml#	99
11) Phenanthrene	15.453	178	2014342	6.06	ug/ml	99
12) Anthracene	15.539	178	164153	0.60	ug/ml#	92
13) Fluoranthene	17.113	202	198270	0.63	ug/ml	98
15) Pyrene	17.376	202	87099	0.31	ug/ml	99
16) Benzo (a) anthracene	18.652	228	27020	0.06	ug/ml#	75
17) Chrysene	18.669	228	5589m	0.02	ug/ml	
19) Benzo (b) fluoranthene	19.659	252	6676	0.09	ug/ml#	56
20) Benzo (k) fluoranthene	19.688	252	5470	0.07	ug/ml#	77
22) Benzo (a) pyrene	20.008	252	4951	0.15	ug/ml#	85
23) Indeno (1,2,3-cd) pyrene	21.416	276	6058	0.09	ug/ml#	96
24) Dibenzo (a,h) anthracene	21.416	278	4720	0.09	ug/ml#	78
25) Benzo (g,h,i) perylene	21.816	276	6104	0.14	ug/ml#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed



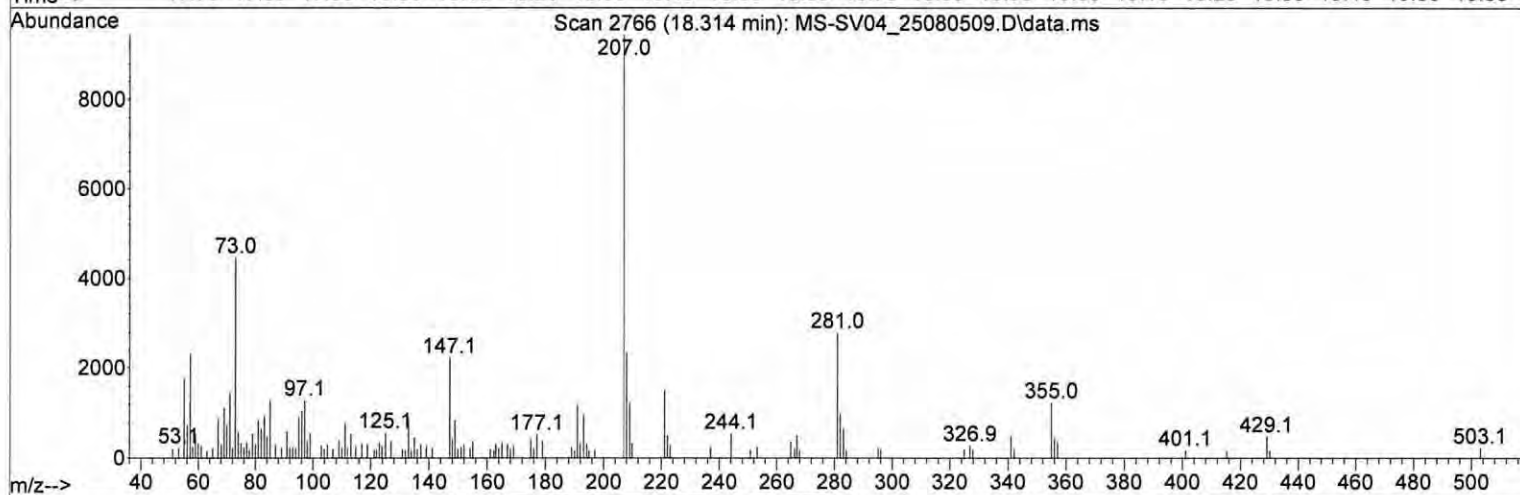
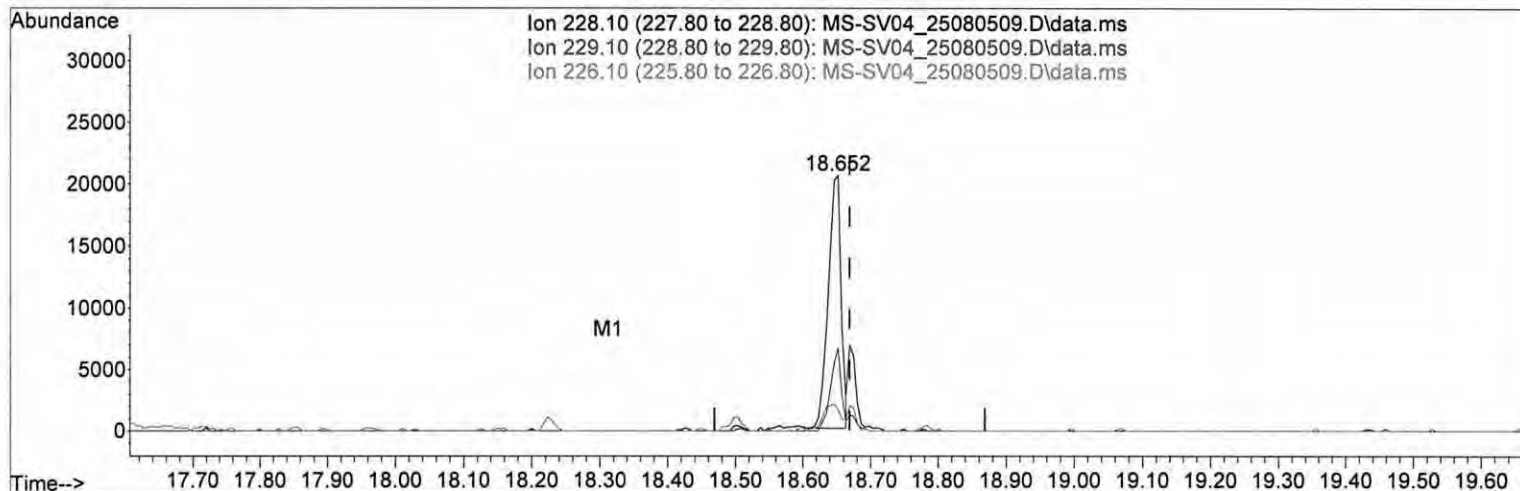
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:25:35 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 15:54:18 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:25:35 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 15:54:18 2025
Response via : Initial Calibration



TIC: MS-SV04_25080509.D\data.ms

(17) Chrysene (T)

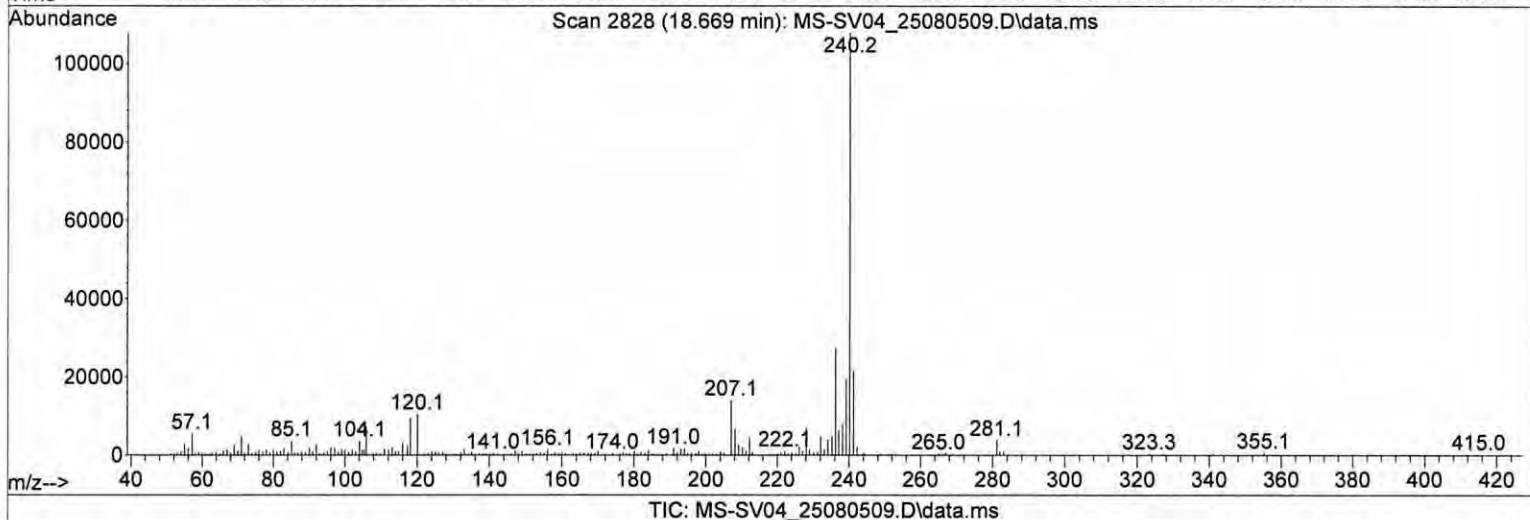
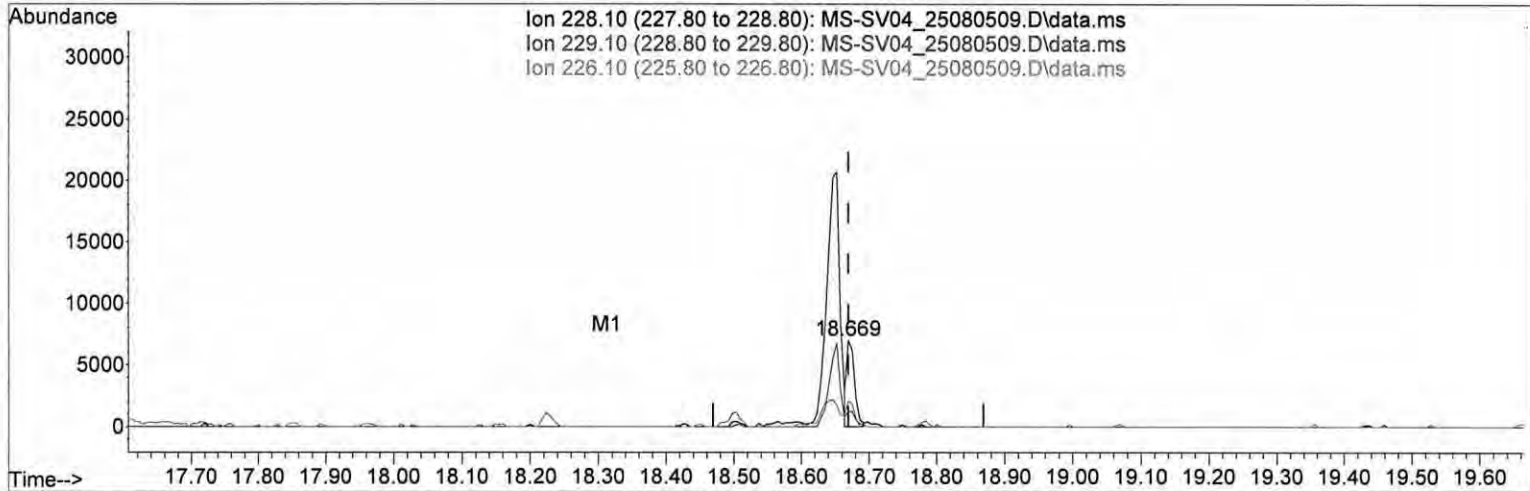
18.652min (-0.017) 0.10 ug/ml

response 27020

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.50	31.92#
226.10	29.60	13.76#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080509.D
Acq On : 05 Aug 2025 04:57 pm
Operator : BMS
Sample : BIH0165-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:25:35 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718LP.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
Qlast Update : Mon Aug 04 15:54:18 2025
Response via : Initial Calibration



(17) Chrysene (T)

18.669min (-0.000) 0.02 ug/ml m

response 5589

Ion	Exp%	Act%
228.10	100.00	100.00
229.10	19.50	154.30#
226.10	29.60	66.52#
0.00	0.00	0.00

LCS / LCS DUPLICATE RECOVERY

447 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
 Project: HWMU 16
 Work Order: 25H0034

Matrix:	Non-Potable Water	Analysis Method	SW8270E
Prep Batch:	BIH0165	Prep Method:	SW3510C/EPA600-MS
		Lab Sample ID:	BIH0165-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2,4-Trichlorobenzene	50.0	30.4	60.8	57 - 130
1,2-Dichlorobenzene	50.0	30.5	61.0	22 - 115
1,3-Dichlorobenzene	50.0	29.4	58.8	22 - 112
1,4-Dichlorobenzene	50.0	28.9	57.8	13 - 112
2,4,6-Trichlorophenol	50.0	36.3	72.5	52 - 129
2,4-Dichlorophenol	50.0	34.7	69.4	53 - 122
2,4-Dimethylphenol	50.0	31.9	63.9	42 - 120
2,4-Dinitrophenol	50.0	47.8	95.6	48 - 127
2,4-Dinitrotoluene	50.0	34.9	69.9	10 - 173
2,6-Dinitrotoluene	50.0	34.1	68.2	68 - 137
2-Chloronaphthalene	50.0	30.1	60.1 *	65 - 120
2-Chlorophenol	50.0	30.8	61.6	36 - 120
2-Nitrophenol	50.0	36.9	73.8	45 - 167
3,3'-Dichlorobenzidine	50.0	36.4	72.8	10 - 213
4,6-Dinitro-2-methylphenol	50.0	46.4	92.7	53 - 130
4-Bromophenyl phenyl ether	50.0	34.5	69.0	65 - 120
4-Chlorophenyl phenyl ether	50.0	31.5	62.9	38 - 145
4-Nitrophenol	50.0	15.7	31.4	13 - 129
Acenaphthene	50.0	30.5	61.1	60 - 132
Acenaphthylene	50.0	29.9	59.8	54 - 126
Acetophenone	50.0	27.8	55.6	0 - 200
Anthracene	50.0	29.6	59.2	43 - 120
Benzidine	50.0	ND	0 *	12 - 309
Benzo (a) anthracene	50.0	32.6	65.3	42 - 133
Benzo (a) pyrene	50.0	32.3	64.7	32 - 148
Benzo (b) fluoranthene	50.0	35.9	71.9	42 - 140
Benzo (g,h,i) perylene	50.0	30.0	60.0	10 - 195
Benzo (k) fluoranthene	50.0	28.2	56.4	25 - 146
bis (2-Chloroethoxy) methane	50.0	32.0	64.0	49 - 165
bis (2-Chloroethyl) ether	50.0	30.0	59.9	43 - 126
2,2'-Oxybis (1-chloropropane)	50.0	32.9	65.8	63 - 139
bis (2-Ethylhexyl) phthalate	50.0	36.0	72.0	29 - 137
Butyl benzyl phthalate	50.0	37.4	74.8	10 - 140
Chrysene	50.0	30.5	60.9	44 - 140
Dibenz (a,h) anthracene	50.0	31.8	63.7	10 - 200
Diethyl phthalate	50.0	33.0	66.0	10 - 120
Dimethyl phthalate	50.0	32.6	65.2	10 - 120
Di-n-butyl phthalate	50.0	32.4	64.9	10 - 120

LCS / LCS DUPLICATE RECOVERY

448 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Project: HWMU 16
Work Order: 25H0034

Matrix:	Non-Potable Water	Analysis Method	SW8270E
Prep Batch:	BIH0165	Prep Method:	SW3510C/EPA600-MS
		Lab Sample ID:	BIH0165-BS1

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-octyl phthalate	50.0	33.1	66.3	19 - 132
Fluoranthene	50.0	29.3	58.7	43 - 121
Fluorene	50.0	30.4	60.8 *	70 - 120
Hexachlorobenzene	50.0	34.0	68.1	10 - 142
Hexachlorobutadiene	50.0	34.0	68.0	38 - 120
Hexachlorocyclopentadiene	50.0	31.9	63.8	10 - 76
Hexachloroethane	50.0	29.9	59.7	55 - 120
Indeno (1,2,3-cd) pyrene	50.0	29.2	58.5	10 - 151
Isophorone	50.0	28.0	56.0	47 - 180
Naphthalene	50.0	28.0	55.9	36 - 120
Nitrobenzene	50.0	31.7	63.4	54 - 158
n-Nitrosodimethylamine	50.0	22.9	45.9	10 - 85
n-Nitrosodi-n-propylamine	50.0	29.6	59.3	14 - 198
n-Nitrosodiphenylamine	50.0	26.1	52.2	12 - 97
p-Chloro-m-cresol	50.0	34.1	68.2	10 - 142
Pentachlorophenol	50.0	35.2	70.3	38 - 152
Phenanthrene	50.0	32.4	64.9 *	65 - 120
Phenol	50.5	13.2	26.2	17 - 120
Pyrene	50.0	29.5	59.0 *	70 - 120
Pyridine	50.0	23.2	46.5	10 - 103

* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080508.D
 Acq On : 05 Aug 2025 04:29 pm
 Operator : BMS
 Sample : BIH0165-BS1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.315	152	3382277	40.00	ug/ml	0.00
21) Naphthalene-d8	8.381	136	11155899	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.123	164	6954940	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.430	188	10413490	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.663	240	7824489	40.00	ug/ml	0.00
81) Perylene-d12	20.088	264	8353741	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4266881	38.99	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	38.99%		
5) Phenol-d5	5.846	99	3107630	26.33	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	26.33%		
19) Nitrobenzene-d5	7.133	82	3190460	32.81	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	65.62%		
39) 2-Fluorobiphenyl	10.624	172	7017040	28.21	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	56.42%		
64) 2,4,6-Tribromophenol	13.983	330	2940794	70.29	ug/ml	0.00
Spiked Amount 100.000	Range 20 - 86		Recovery =	70.29%		
75) p-Terphenyl-d14	17.565	244	7161122	31.41	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	62.82%		
Target Compounds						
					Qvalue	
2) Pyridine	3.305	79	2371316m	23.23	ug/ml	
3) N-Nitrosodimethylamine	3.294	74	1324744m	22.94	ug/ml	
7) Phenol	5.863	94	1701818	13.24	ug/ml	93
8) Bis (2-chloroethyl) ether	5.972	93	2994385	29.96	ug/ml#	74
9) 2-Chlorophenol	6.046	128	3306583	30.81	ug/ml#	90
10) 1,3-Dichlorobenzene	6.235	146	3738652	29.41	ug/ml	97
11) 1,4-Dichlorobenzene	6.338	146	3588321	28.91	ug/ml	99
13) 1,2-Dichlorobenzene	6.550	146	3690032	30.52	ug/ml	96
15) Bis (2-chloroisopropyl...	6.693	121	1304760	32.90	ug/ml	87
17) N-nitrosodi-n-propyl a...	6.893	70	1823023	29.63	ug/ml#	91
18) Hexachloroethane	7.053	117	1387483	29.87	ug/ml	85
20) Nitrobenzene	7.162	77	2970511	31.69	ug/ml#	69
22) Isophorone	7.557	82	5238904	27.99	ug/ml#	95
23) 2-Nitrophenol	7.688	139	1834199	36.89	ug/ml#	88
24) 2,4-Dimethylphenol	7.769	122	2869183	31.94	ug/ml	90
25) Bis (2-chloroethoxy) m...	7.935	93	3603195	31.98	ug/ml	99
26) 2,4-Dichlorophenol	8.123	162	2913841	34.71	ug/ml	98
27) 1,2,4-Trichlorobenzene	8.278	180	3213601	30.38	ug/ml	97
29) Naphthalene	8.421	128	8152987	27.97	ug/ml	99
31) Hexachlorobutadiene	8.661	225	2303147	33.99	ug/ml	100
32) p-Chloro-m-cresol	9.514	107	2717556	34.11	ug/ml	93
35) Hexachlorocyclopentadiene	10.155	237	1322986	31.92	ug/ml#	98
37) 2,4,6-Trichlorophenol	10.429	196	2132673	36.26	ug/ml	97
40) 2-Chloronaphthalene	10.864	162	5842379	30.06	ug/ml#	98
44) Dimethyl phthalate	11.574	163	7316801	32.60	ug/ml#	98
45) Acenaphthylene	11.791	152	8989415	29.90	ug/ml	99
46) 2,6-Dinitrotoluene	11.700	165	1694226	34.08	ug/ml#	87

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080508.D
 Acq On : 05 Aug 2025 04:29 pm
 Operator : BMS
 Sample : BIH0165-BS1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

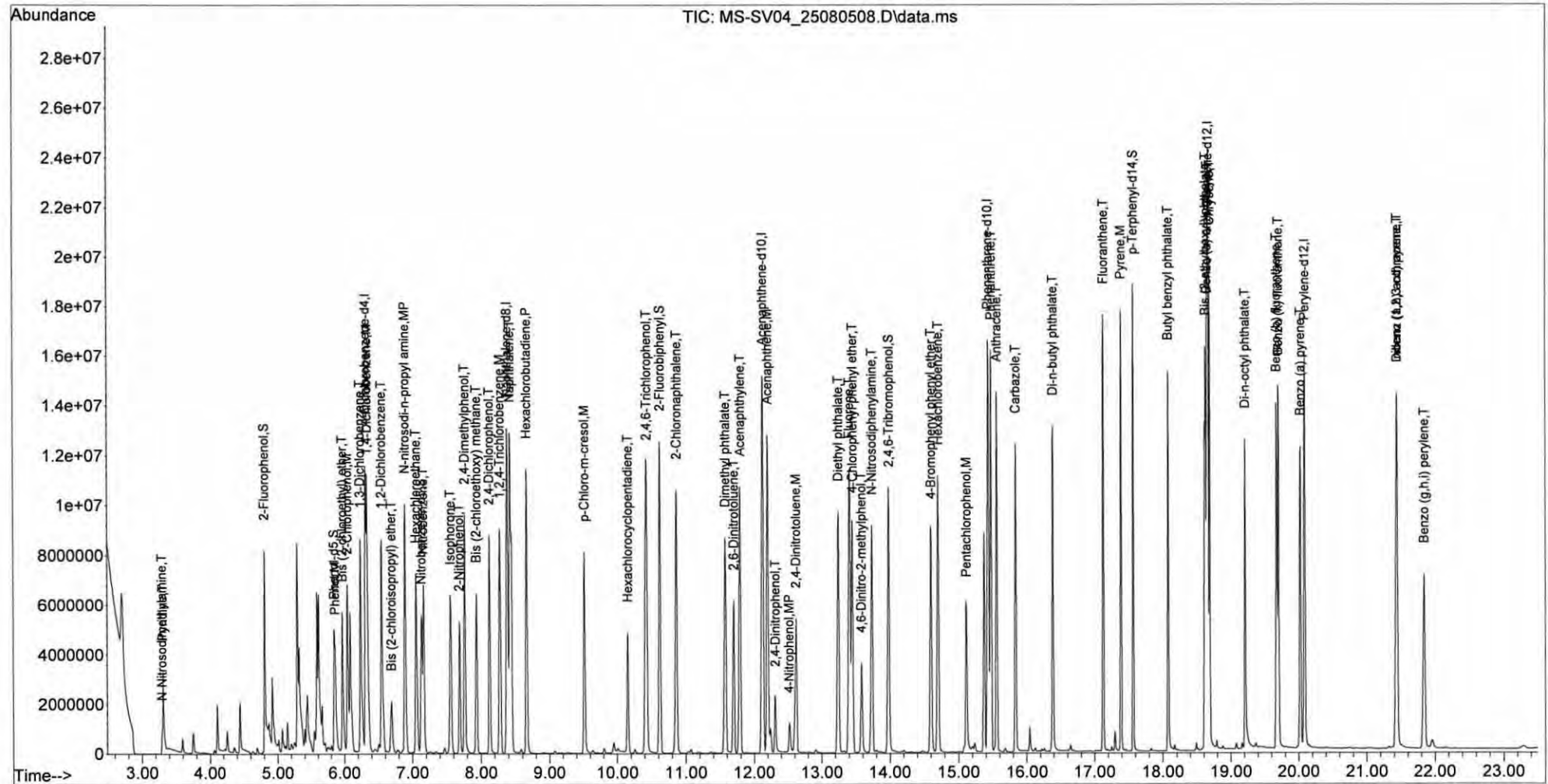
Quant Time: Aug 06 09:23:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Acenaphthene	12.197	154	5599441	30.53	ug/ml	99
50) 2,4-Dinitrophenol	12.312	184	737641	47.79	ug/ml#	83
52) 4-Nitrophenol	12.518	109	347328	15.69	ug/ml#	71
53) 2,4-Dinitrotoluene	12.621	165	2209894	34.93	ug/ml#	80
56) Diethyl phthalate	13.245	149	7187719	32.99	ug/ml	93
57) Fluorene	13.405	166	6610628	30.39	ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.451	204	3596707	31.47	ug/ml	98
60) 4,6-Dinitro-2-methylph...	13.582	198	1234637	46.37	ug/ml#	68
61) N-Nitrosodiphenylamine	13.737	169	4733252	26.12	ug/ml	95
65) 4-Bromophenyl phenyl e...	14.601	248	2331201	34.52	ug/ml	98
66) Hexachlorobenzene	14.704	284	2821161	34.05	ug/ml#	89
67) Pentachlorophenol	15.116	266	1293712	35.16	ug/ml	98
68) Phenanthrene	15.476	178	9122569	32.45	ug/ml	99
69) Anthracene	15.556	178	8107826	29.59	ug/ml	99
70) Carbazole	15.837	167	7252229	31.62	ug/ml	98
71) Di-n-butyl phthalate	16.386	149	9433324	32.43	ug/ml	97
72) Fluoranthene	17.130	202	8567823	29.33	ug/ml	99
74) Pyrene	17.387	202	8555841	29.50	ug/ml	99
76) Butyl benzyl phthalate	18.074	149	4303967	37.40	ug/ml#	90
78) Benzo (a) anthracene	18.646	228	7670660	32.64	ug/ml	100
79) Chrysene	18.686	228	7042515	30.46	ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.623	149	5689304	35.99	ug/ml#	91
82) Di-n-octyl phthalate	19.207	149	8616634	33.14	ug/ml#	85
83) Benzo (b) fluoranthene	19.670	252	7885506	35.93	ug/ml	99
84) Benzo (k) fluoranthene	19.699	252	6762223	28.19	ug/ml#	96
85) Benzo (a) pyrene	20.025	252	6693511	32.33	ug/ml#	94
86) Indeno (1,2,3-cd) pyrene	21.439	276	6991484	29.24	ug/ml#	80
87) Dibenzo (a,h) anthracene	21.439	278	5892137	31.83	ug/ml#	92
88) Benzo (g,h,i) perylene	21.839	276	5817444	30.02	ug/ml#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

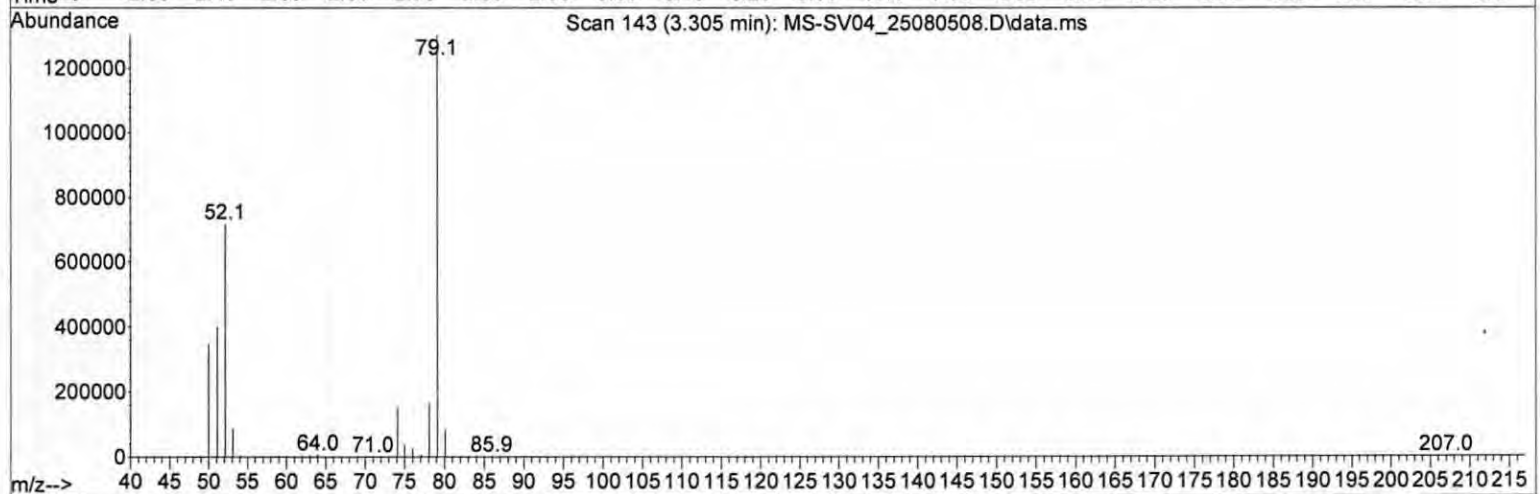
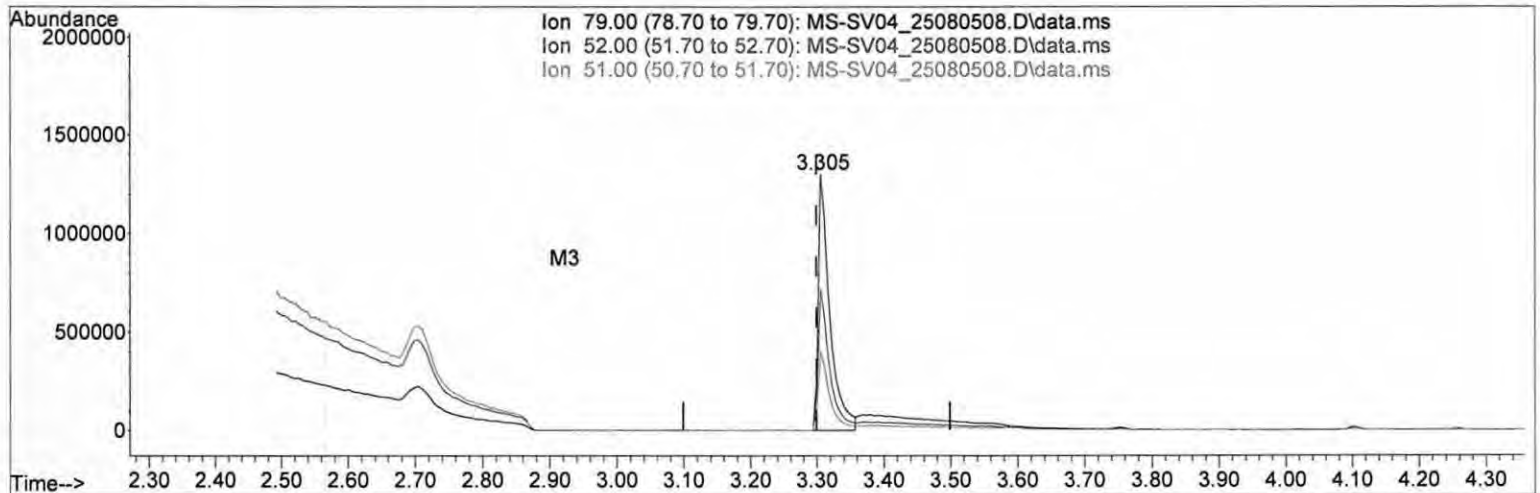
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatle Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080508.D\data.ms

(2) Pyridine (T)

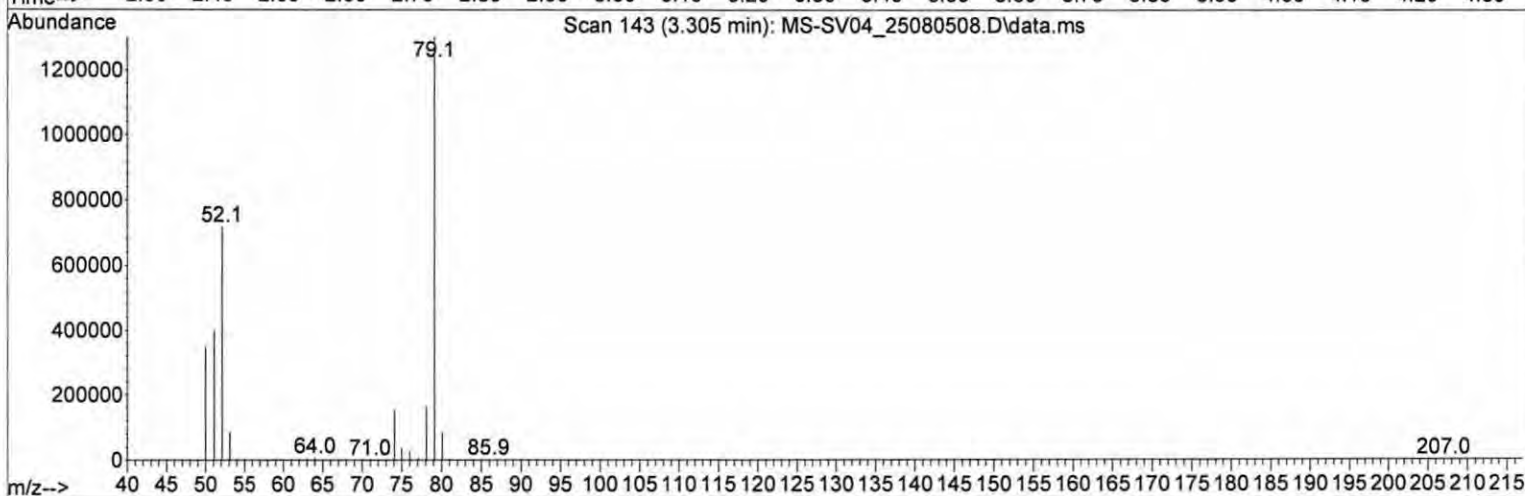
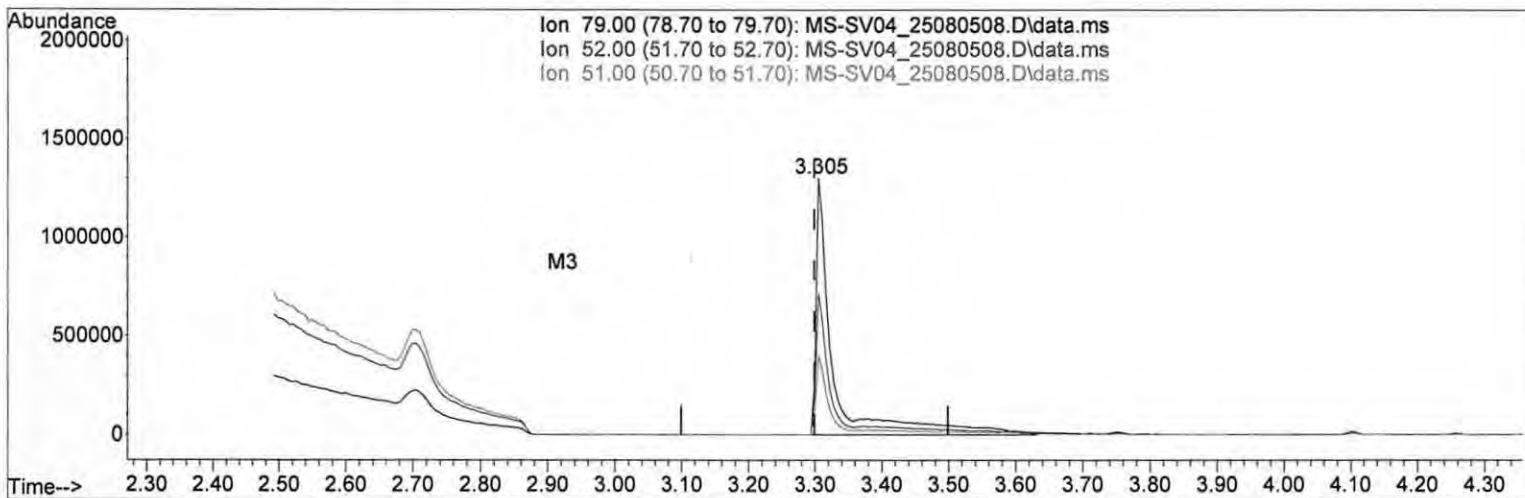
3.305min (+ 0.006) 15.60 ug/ml

response 1592354

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	54.62#
51.00	62.40	30.26#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatle Primary Quant method (8270 and 625)
Qlast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080508.D\data.ms

(2) Pyridine (T)

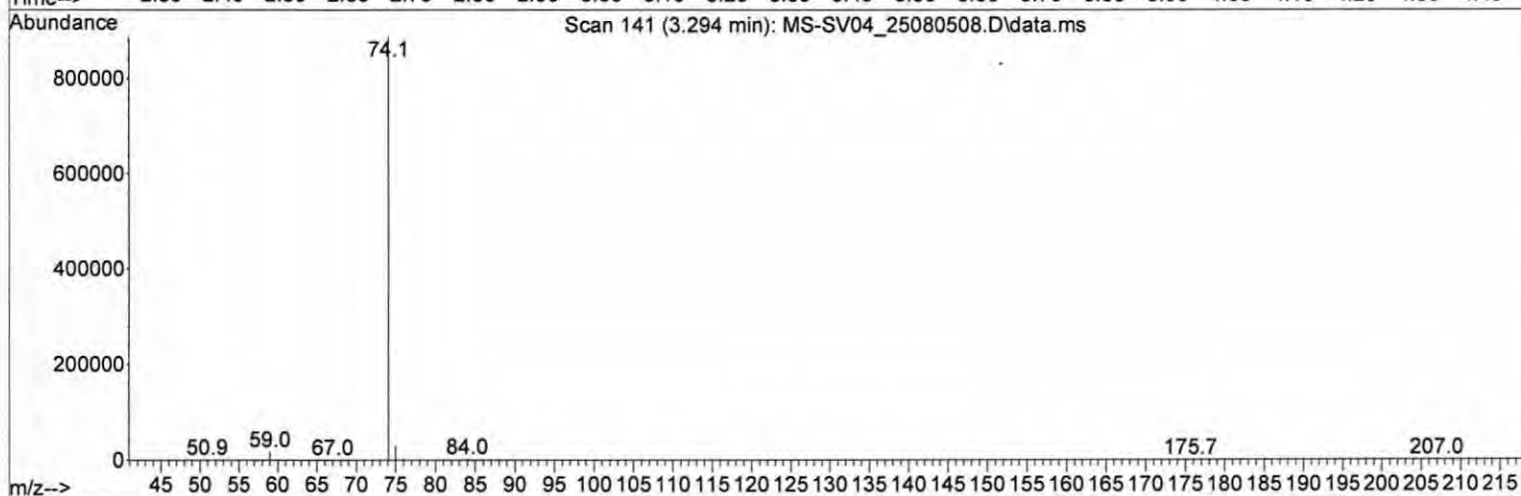
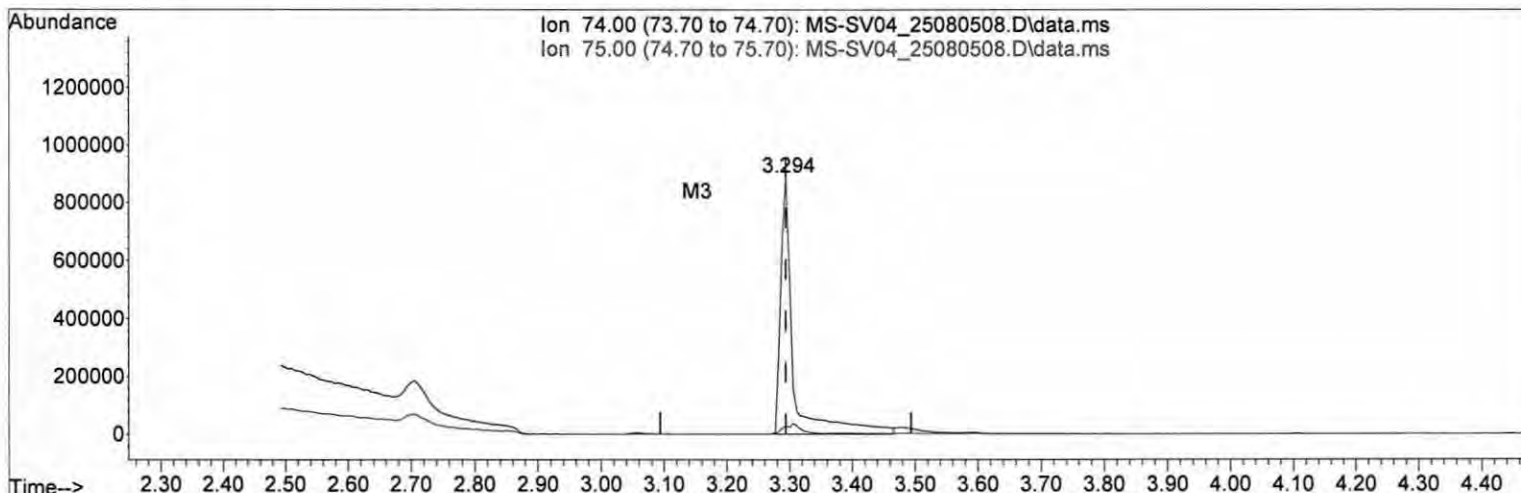
3.305min (+ 0.006) 23.23 ug/ml m

response 2371316

Ion	Exp%	Act%
79.00	100.00	100.00
52.00	126.50	36.68#
51.00	62.40	20.32#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080508.D\data.ms

(3) N-Nitrosodimethylamine (T)

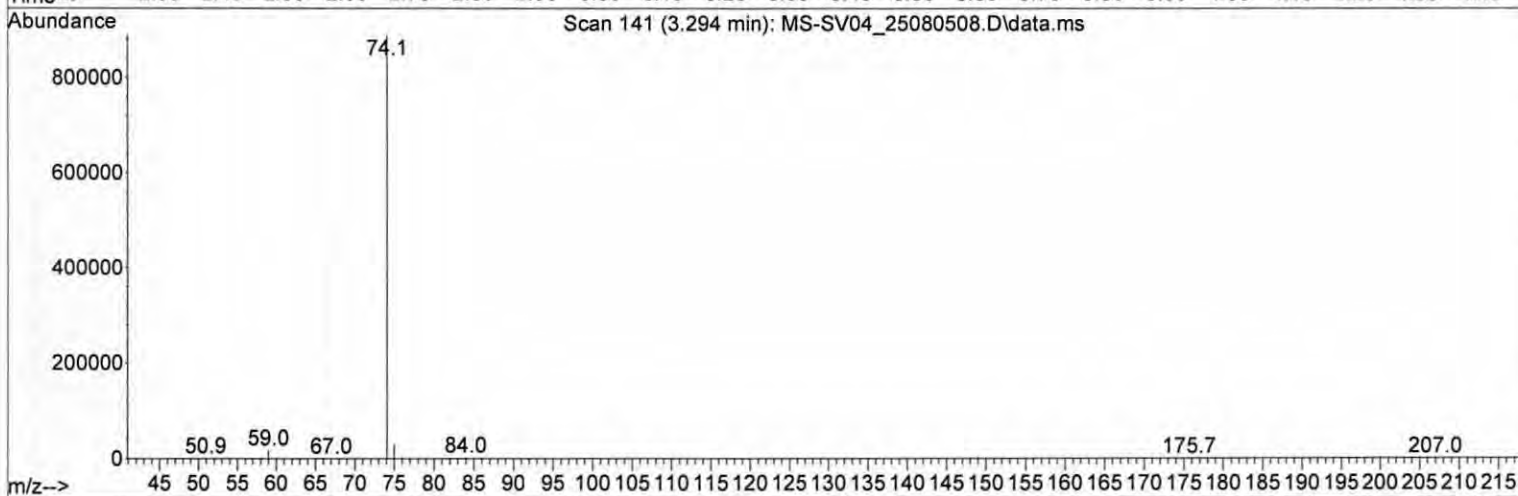
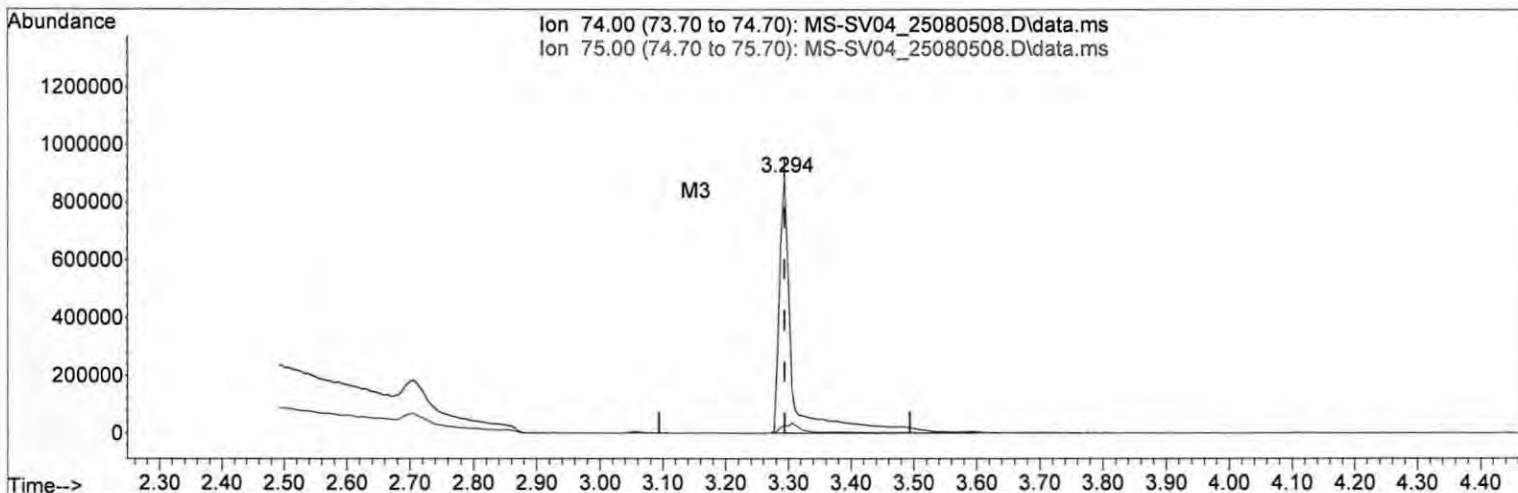
3.294min (-0.000) 21.55 ug/ml

response 1244326

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.58
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



TIC: MS-SV04_25080508.D\data.ms

(3) N-Nitrosodimethylamine (T)

3.294min (-0.000) 22.94 ug/ml m

response 1324744

Ion	Exp%	Act%
74.00	100.00	100.00
75.00	6.10	5.24
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080508.D
 Acq On : 05 Aug 2025 04:29 pm
 Operator : BMS
 Sample : BIH0165-BS1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.315	152	3382277	40.00	ug/ml	0.00
21) Naphthalene-d8	8.381	136	11155899	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.123	164	6954940	40.00	ug/ml	0.00
63) Phenanthrene-d10	15.430	188	10413490	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.663	240	7824489	40.00	ug/ml	0.00
81) Perylene-d12	20.088	264	8353741	40.00	ug/ml	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4266881	38.99	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	38.99%
5) Phenol-d5	5.846	99	3107630	26.33	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	26.33%
19) Nitrobenzene-d5	7.133	82	3190460	32.81	ug/ml	0.00
Spiked Amount	50.000	Range	10 - 99	Recovery	=	65.62%
39) 2-Fluorobiphenyl	10.624	172	7017040	28.21	ug/ml	0.00
Spiked Amount	50.000	Range	23 - 87	Recovery	=	56.42%
64) 2,4,6-Tribromophenol	13.983	330	2940794	70.29	ug/ml	0.00
Spiked Amount	100.000	Range	20 - 86	Recovery	=	70.29%
75) p-Terphenyl-d14	17.565	244	7161122	31.41	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	62.82%

Target Compounds				Qvalue		
2) Pyridine	3.305	79	2371316m	23.23	ug/ml	
3) N-Nitrosodimethylamine	3.294	74	1324744m	22.94	ug/ml	
7) Phenol	5.863	94	1701818	13.24	ug/ml	93
8) Bis (2-chloroethyl) ether	5.972	93	2994385	29.96	ug/ml#	74
9) 2-Chlorophenol	6.046	128	3306583	30.81	ug/ml#	90
10) 1,3-Dichlorobenzene	6.235	146	3738652	29.41	ug/ml	97
11) 1,4-Dichlorobenzene	6.338	146	3588321	28.91	ug/ml	99
13) 1,2-Dichlorobenzene	6.550	146	3690032	30.52	ug/ml	96
15) Bis (2-chloroisopropyl)...	6.693	121	1304760	32.90	ug/ml	87
17) N-nitrosodi-n-propyl a...	6.893	70	1823023	29.63	ug/ml#	91
18) Hexachloroethane	7.053	117	1387483	29.87	ug/ml	85
20) Nitrobenzene	7.162	77	2970511	31.69	ug/ml#	69
22) Isophorone	7.557	82	5238904	27.99	ug/ml#	95
23) 2-Nitrophenol	7.688	139	1834199	36.89	ug/ml#	88
24) 2,4-Dimethylphenol	7.769	122	2869183	31.94	ug/ml	90
25) Bis (2-chloroethoxy) m...	7.935	93	3603195	31.98	ug/ml	99
26) 2,4-Dichlorophenol	8.123	162	2913841	34.71	ug/ml	98
27) 1,2,4-Trichlorobenzene	8.278	180	3213601	30.38	ug/ml	97
29) Naphthalene	8.421	128	8152987	27.97	ug/ml	99
31) Hexachlorobutadiene	8.661	225	2303147	33.99	ug/ml	100
32) p-Chloro-m-cresol	9.514	107	2717556	34.11	ug/ml	93
35) Hexachlorocyclopentadiene	10.155	237	1322986	31.92	ug/ml#	98
37) 2,4,6-Trichlorophenol	10.429	196	2132673	36.26	ug/ml	97
40) 2-Chloronaphthalene	10.864	162	5842379	30.06	ug/ml#	98
44) Dimethyl phthalate	11.574	163	7316801	32.60	ug/ml#	98
45) Acenaphthylene	11.791	152	8989415	29.90	ug/ml	99
46) 2,6-Dinitrotoluene	11.700	165	1694226	34.08	ug/ml#	87

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080508.D
 Acq On : 05 Aug 2025 04:29 pm
 Operator : BMS
 Sample : BIH0165-BS1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 09:23:54 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

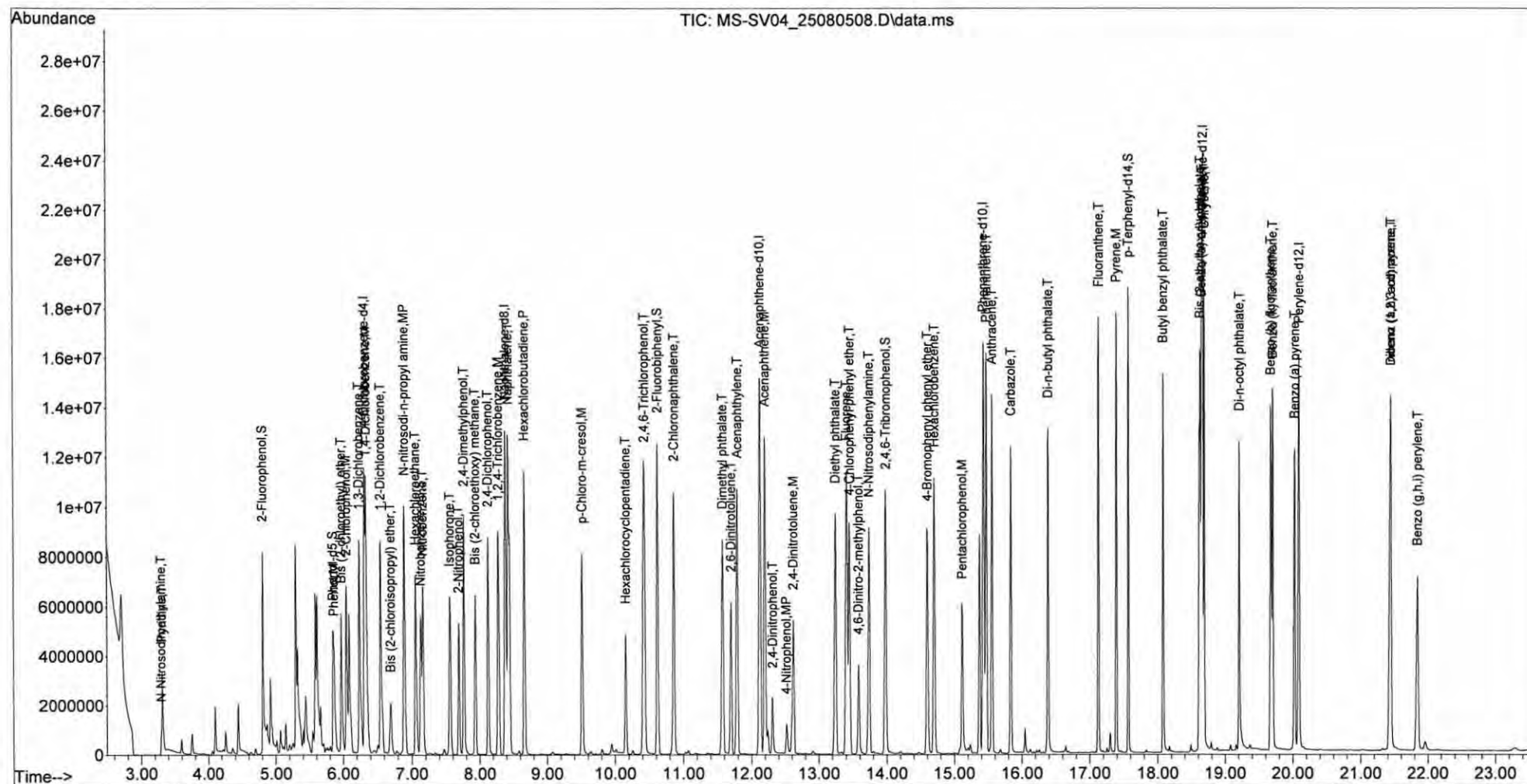
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Acenaphthene	12.197	154	5599441	30.53 ug/ml	99
50) 2,4-Dinitrophenol	12.312	184	737641	47.79 ug/ml#	83
52) 4-Nitrophenol	12.518	109	347328	15.69 ug/ml#	71
53) 2,4-Dinitrotoluene	12.621	165	2209894	34.93 ug/ml#	80
56) Diethyl phthalate	13.245	149	7187719	32.99 ug/ml	93
57) Fluorene	13.405	166	6610628	30.39 ug/ml	98
58) 4-Chlorophenyl phenyl ...	13.451	204	3596707	31.47 ug/ml	98
60) 4,6-Dinitro-2-methylph...	13.582	198	1234637	46.37 ug/ml#	68
61) N-Nitrosodiphenylamine	13.737	169	4733252	26.12 ug/ml	95
65) 4-Bromophenyl phenyl e...	14.601	248	2331201	34.52 ug/ml	98
66) Hexachlorobenzene	14.704	284	2821161	34.05 ug/ml#	89
67) Pentachlorophenol	15.116	266	1293712	35.16 ug/ml	98
68) Phenanthrene	15.476	178	9122569	32.45 ug/ml	99
69) Anthracene	15.556	178	8107826	29.59 ug/ml	99
70) Carbazole	15.837	167	7252229	31.62 ug/ml	98
71) Di-n-butyl phthalate	16.386	149	9433324	32.43 ug/ml	97
72) Fluoranthene	17.130	202	8567823	29.33 ug/ml	99
74) Pyrene	17.387	202	8555841	29.50 ug/ml	99
76) Butyl benzyl phthalate	18.074	149	4303967	37.40 ug/ml#	90
78) Benzo (a) anthracene	18.646	228	7670660	32.64 ug/ml	100
79) Chrysene	18.686	228	7042515	30.46 ug/ml	99
80) Bis (2-ethylhexyl) pht...	18.623	149	5689304	35.99 ug/ml#	91
82) Di-n-octyl phthalate	19.207	149	8616634	33.14 ug/ml#	85
83) Benzo (b) fluoranthene	19.670	252	7885506	35.93 ug/ml	99
84) Benzo (k) fluoranthene	19.699	252	6762223	28.19 ug/ml#	96
85) Benzo (a) pyrene	20.025	252	6693511	32.33 ug/ml#	94
86) Indeno (1,2,3-cd) pyrene	21.439	276	6991484	29.24 ug/ml#	80
87) Dibenz (a,h) anthracene	21.439	278	5892137	31.83 ug/ml#	92
88) Benzo (g,h,i) perylene	21.839	276	5817444	30.02 ug/ml#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

458 of 521

Quant Time: Aug 06 09:23:54 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatle Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 11:21:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

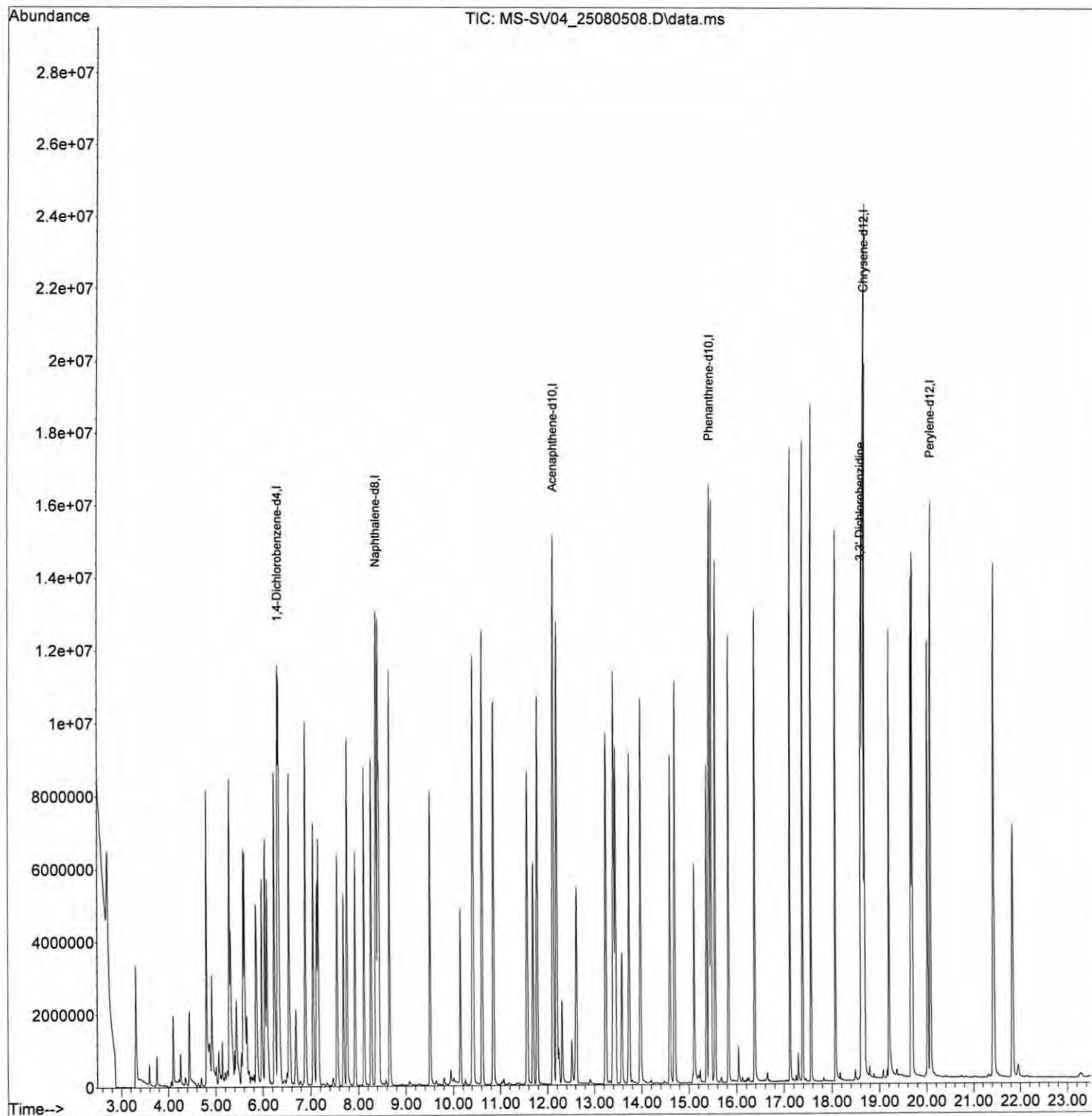
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.315	152	3382277	40.00	ug/ml	0.01
2) Naphthalene-d8	8.381	136	11155899	40.00	ug/ml #	0.01
3) Acenaphthene-d10	12.123	164	6954940	40.00	ug/ml	0.01
4) Phenanthrene-d10	15.430	188	10413543	40.00	ug/ml #	0.01
5) Chrysene-d12	18.663	240	7823556	40.00	ug/ml #	0.02
8) Perylene-d12	20.088	264	8353741	40.00	ug/ml	0.02

Target Compounds				Qvalue		
7) 3,3'-Dichlorobenzidine	18.612	252	2741561	36.42	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080508.D
Acq On : 05 Aug 2025 04:29 pm
Operator : BMS
Sample : BIH0165-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 06 11:21:43 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718BZ.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:53:48 2025
Response via : Initial Calibration



LCS / LCS DUPLICATE RECOVERY

SW8270E

Client: Draper Aden Associates - Blacksburg
Project: HWMU 16
Work Order: 25H0034

Matrix:	Non-Potable Water	Analysis Method	SW8270E
Prep Batch:	BIH0165	Prep Method:	SW3510C/EPA600-MS
		Lab Sample ID:	BIH0165-BS2

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetophenone	50.0	41.0	82.0	0 - 200
Pentachloronitrobenzene (quintozene)	50.0	45.2	90.3	0 - 200

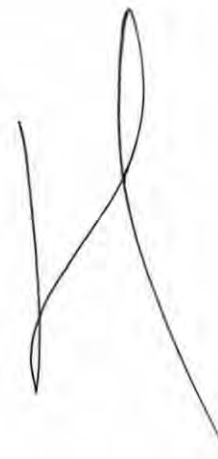
* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080510.D
 Acq On : 05 Aug 2025 05:26 pm
 Operator : BMS
 Sample : BIH0165-BS2
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 09:23:58 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

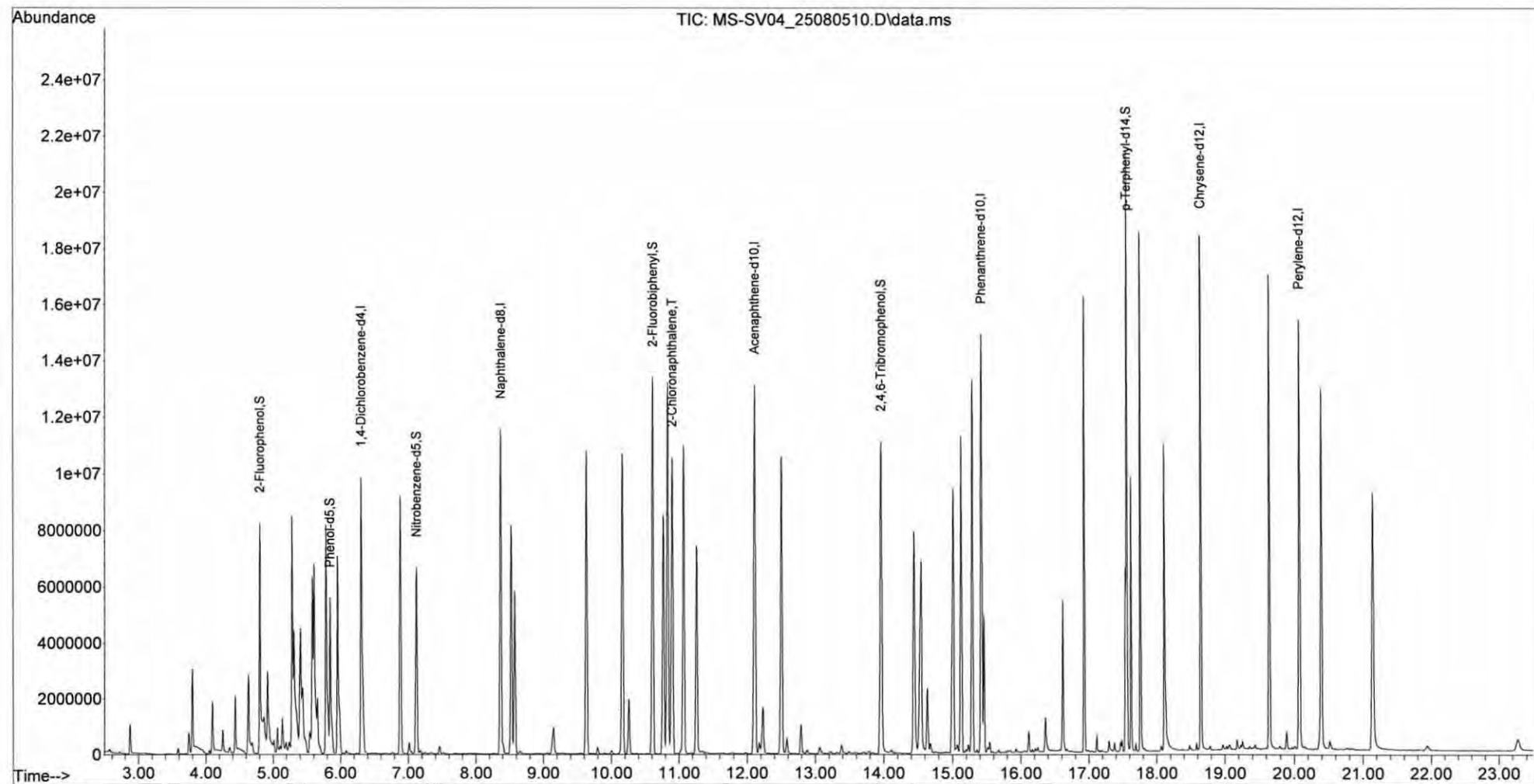
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2864655	40.00	ug/ml	0.00
21) Naphthalene-d8	8.370	136	9072055	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	5555039	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8454335	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.652	240	7250803	40.00	ug/ml	0.00
81) Perylene-d12	20.077	264	8032594	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4386523	47.32	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	47.32%		
5) Phenol-d5	5.840	99	3336276	33.38	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	33.38%#		
19) Nitrobenzene-d5	7.122	82	3422280	41.55	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	83.10%		
39) 2-Fluorobiphenyl	10.613	172	7542071	37.96	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	75.92%		
64) 2,4,6-Tribromophenol	13.966	330	3150325	92.04	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	92.04%#		
75) p-Terphenyl-d14	17.559	244	7936038	37.56	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	75.12%		
Target Compounds						
40) 2-Chloronaphthalene	10.899	162	6169800	39.74	ug/ml#	Qvalue 98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 09:23:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080510.D
 Acq On : 05 Aug 2025 05:26 pm
 Operator : BMS
 Sample : BIH0165-BS2
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 09:23:58 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

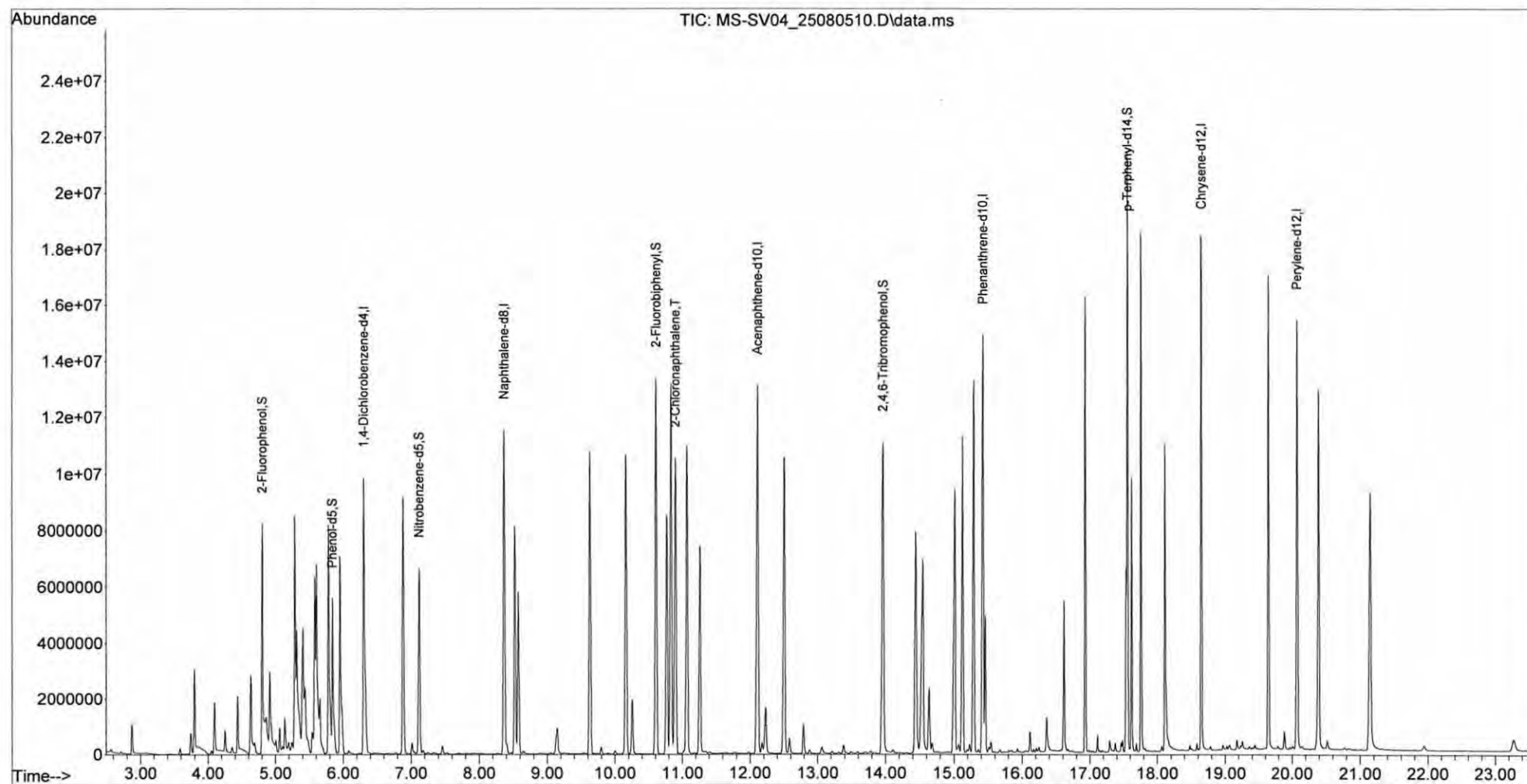
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2864655	40.00	ug/ml	0.00
21) Naphthalene-d8	8.370	136	9072055	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	5555039	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8454335	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.652	240	7250803	40.00	ug/ml	0.00
81) Perylene-d12	20.077	264	8032594	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	4386523	47.32	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	47.32%		
5) Phenol-d5	5.840	99	3336276	33.38	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	33.38%#		
19) Nitrobenzene-d5	7.122	82	3422280	41.55	ug/ml	0.00
Spiked Amount 50.000	Range 10 - 99		Recovery =	83.10%		
39) 2-Fluorobiphenyl	10.613	172	7542071	37.96	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	75.92%		
64) 2,4,6-Tribromophenol	13.966	330	3150325	92.04	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	92.04%#		
75) p-Terphenyl-d14	17.559	244	7936038	37.56	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	75.12%		
Target Compounds						
40) 2-Chloronaphthalene	10.899	162	6169800	39.74	ug/ml#	Qvalue 98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



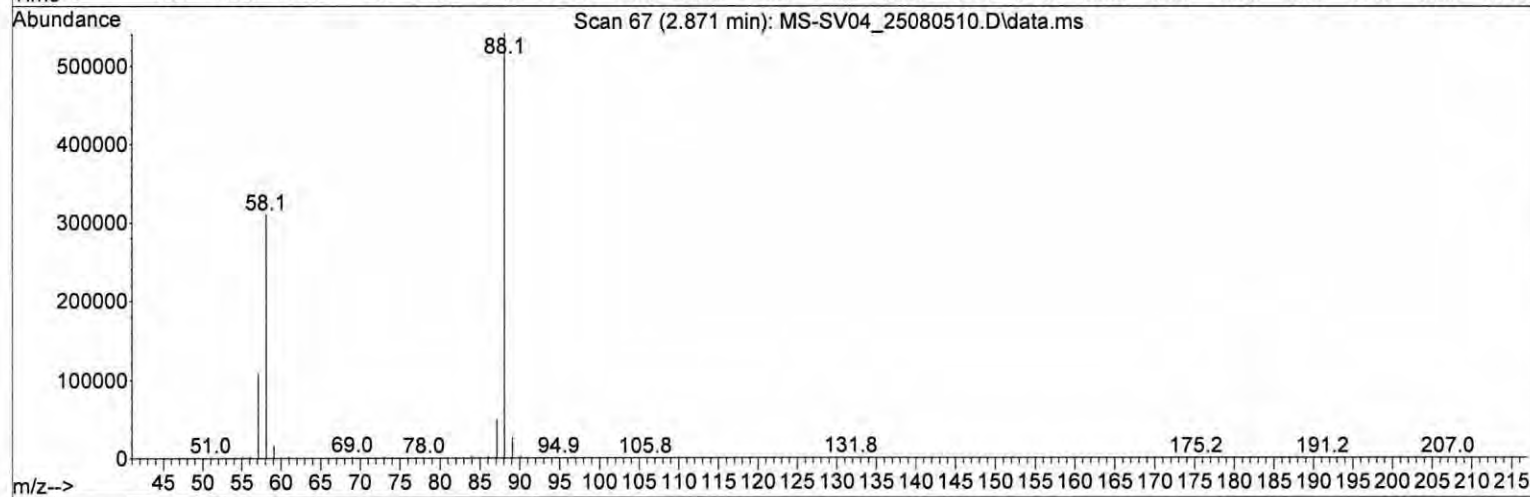
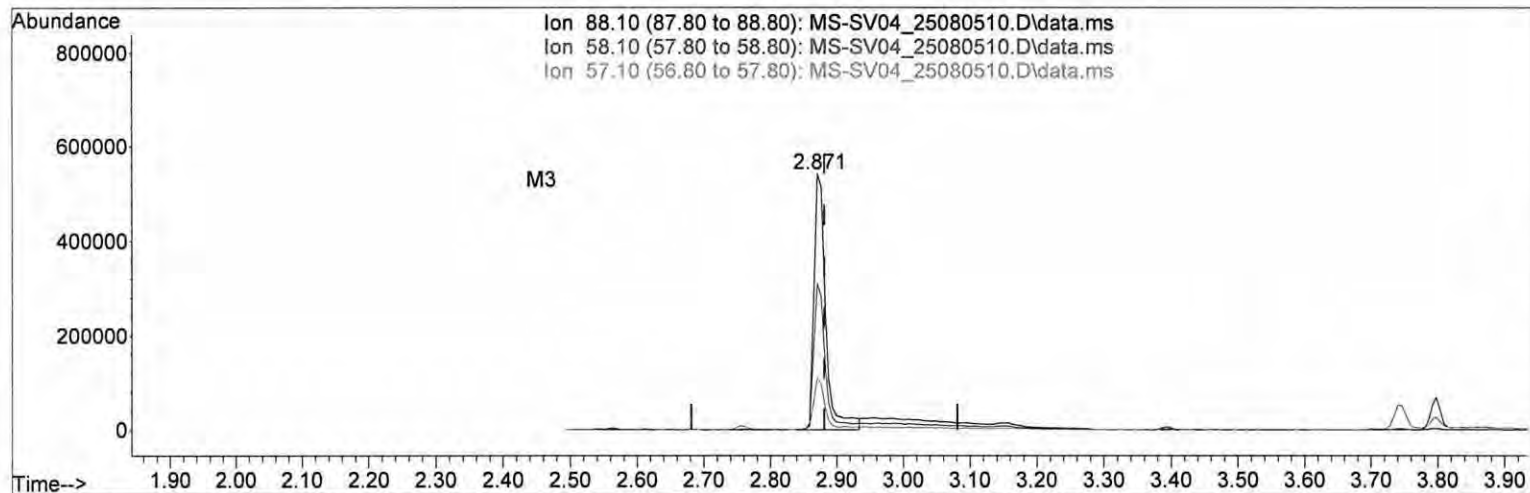
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 09:23:58 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080510.D\data.ms

(2) 1,4-Dioxane (T)

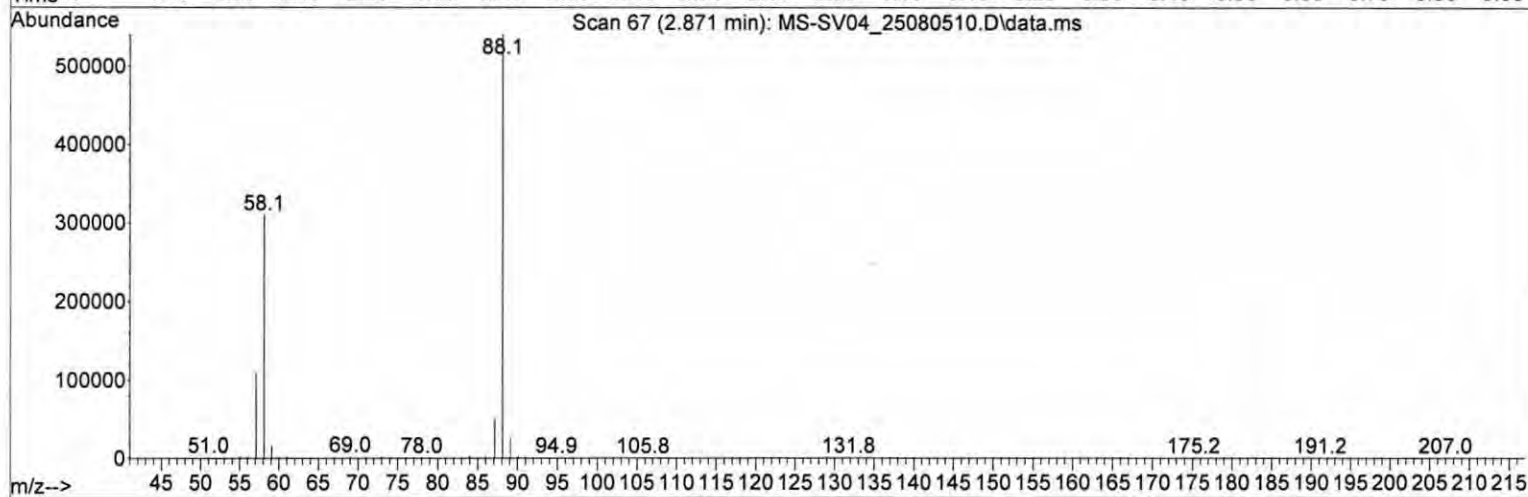
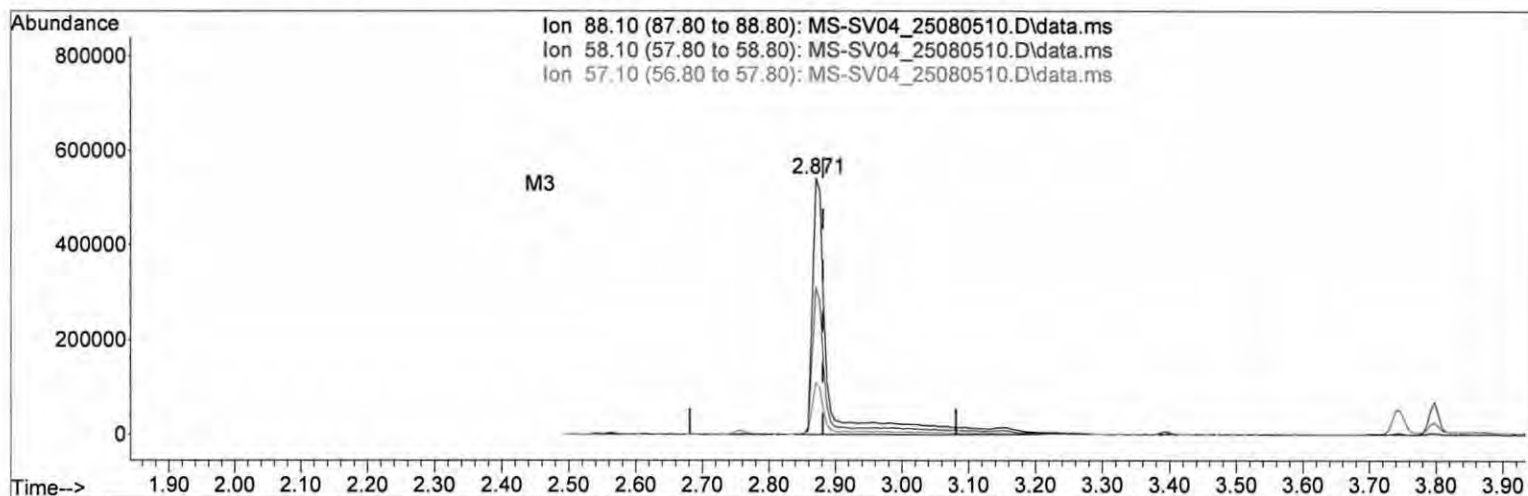
2.871min (-0.011) 18.11 ug/ml

response 663071

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.69#
57.10	37.00	18.47#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080510.D\data.ms

(2) 1,4-Dioxane (T)

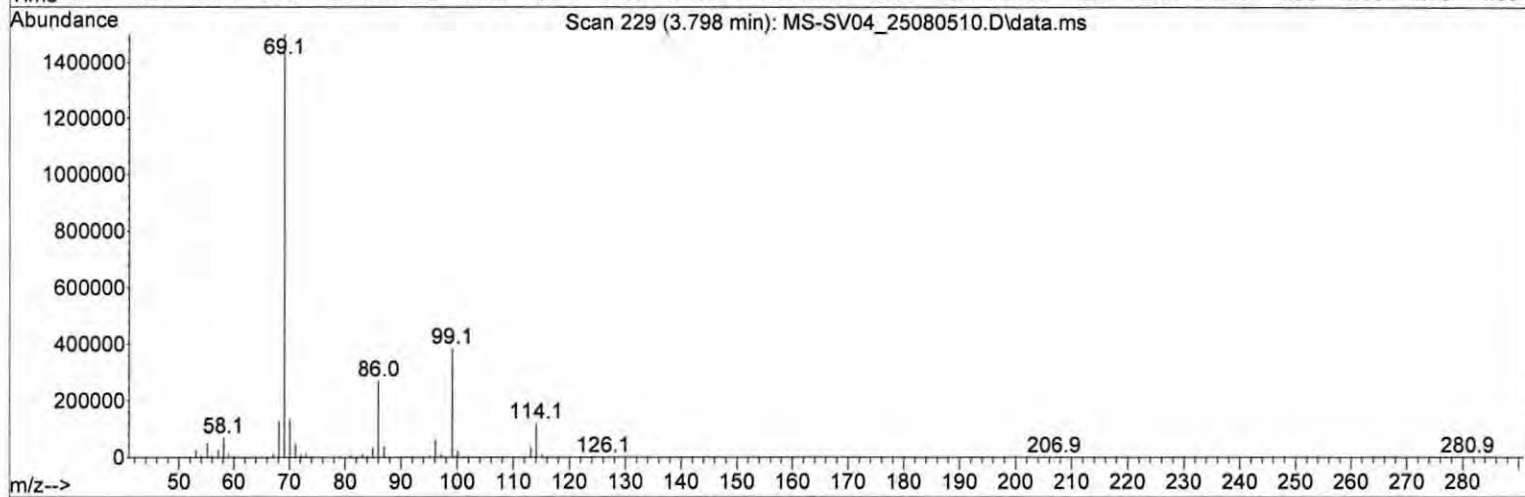
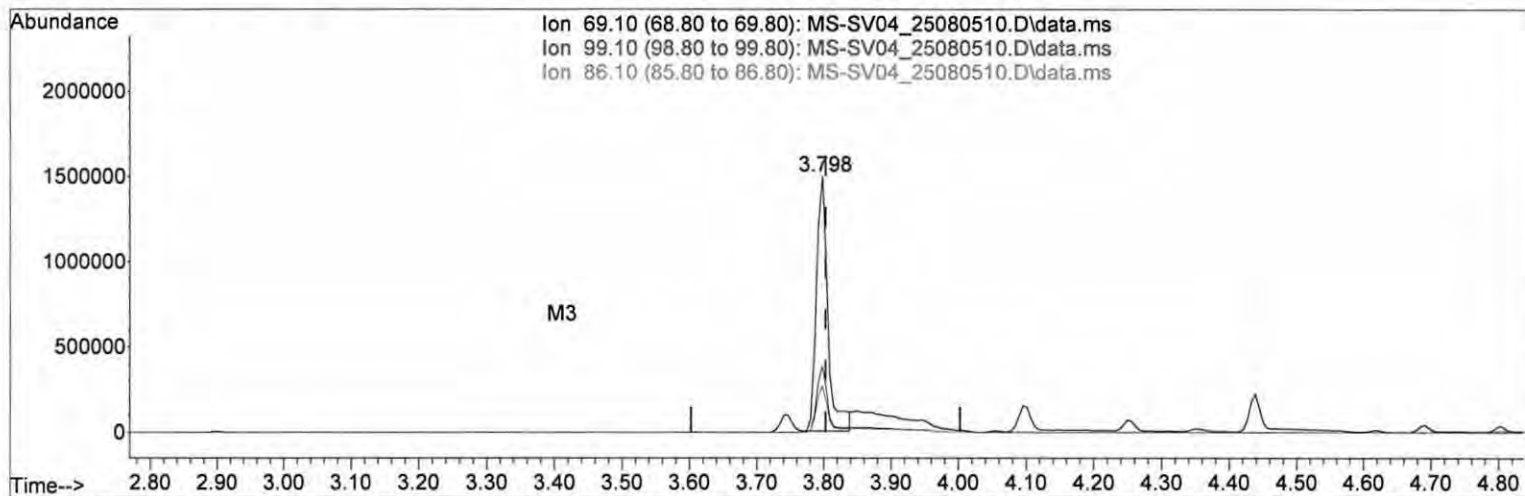
2.871min (-0.011) 25.51 ug/ml m

response 934150

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	39.53#
57.10	37.00	13.11#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080510.D\data.ms

(3) Ethyl methacrylate (T)

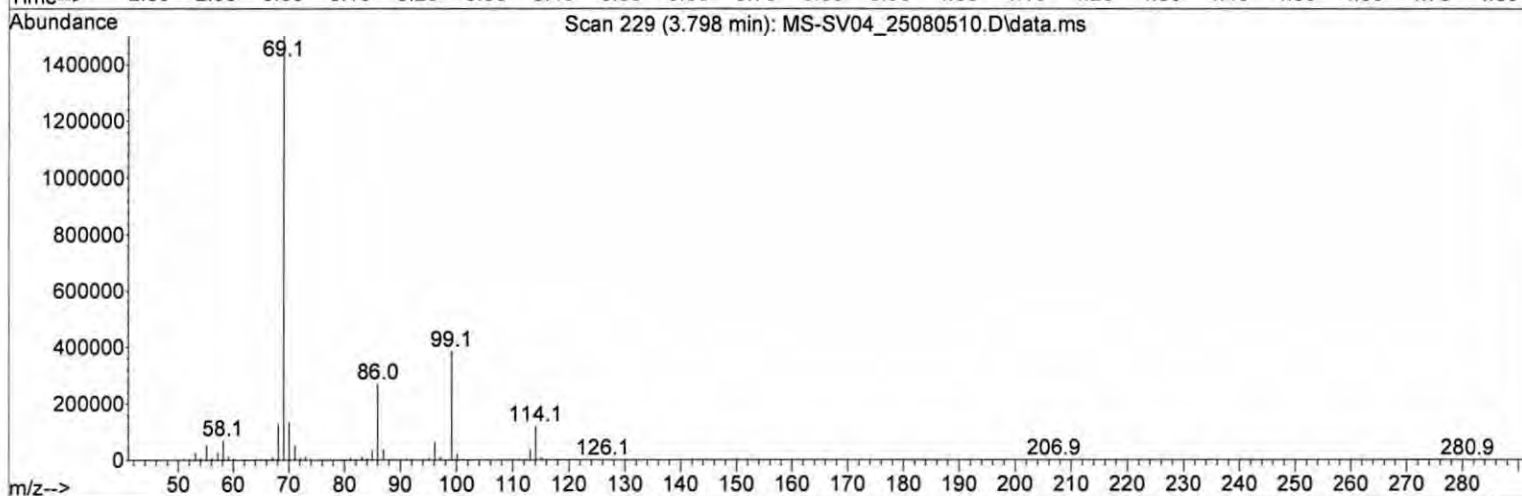
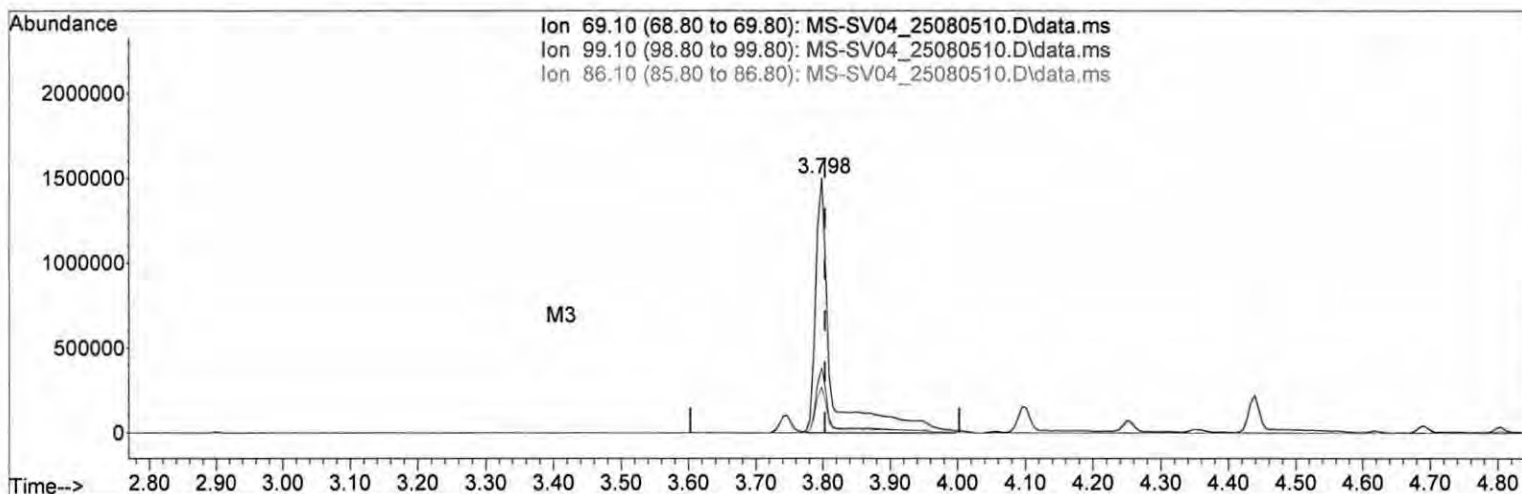
3.798min (-0.005) 26.85 ug/ml

response 1745807

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	24.41
86.10	17.40	17.42
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080510.D\data.ms

(3) Ethyl methacrylate (T)

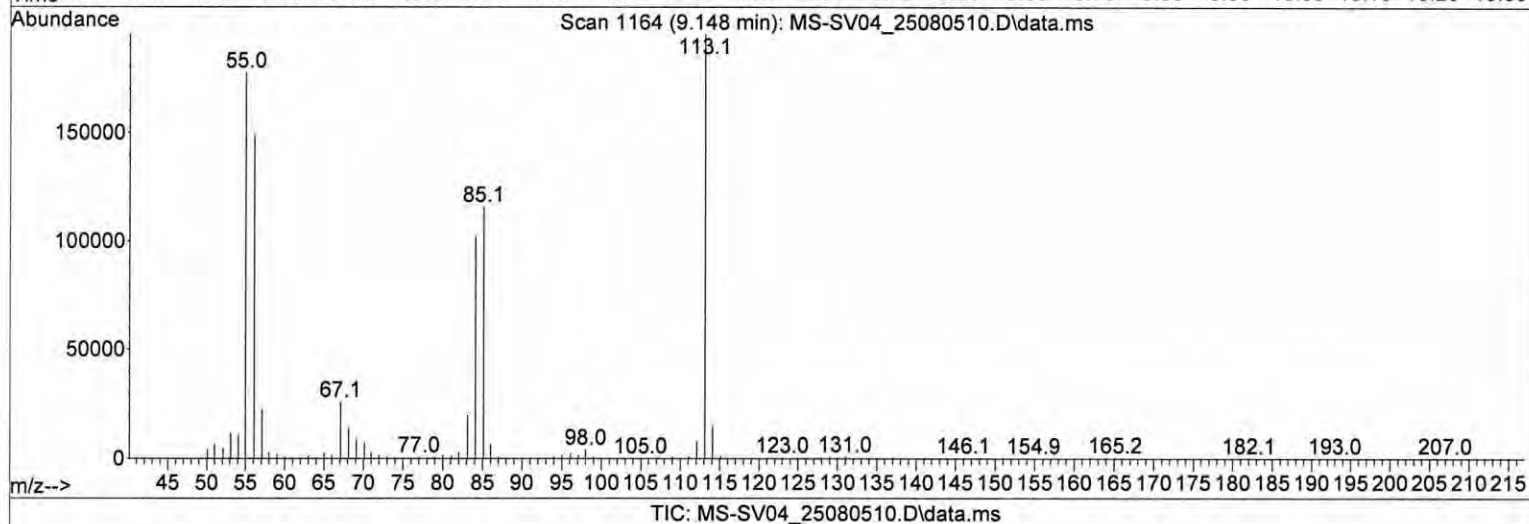
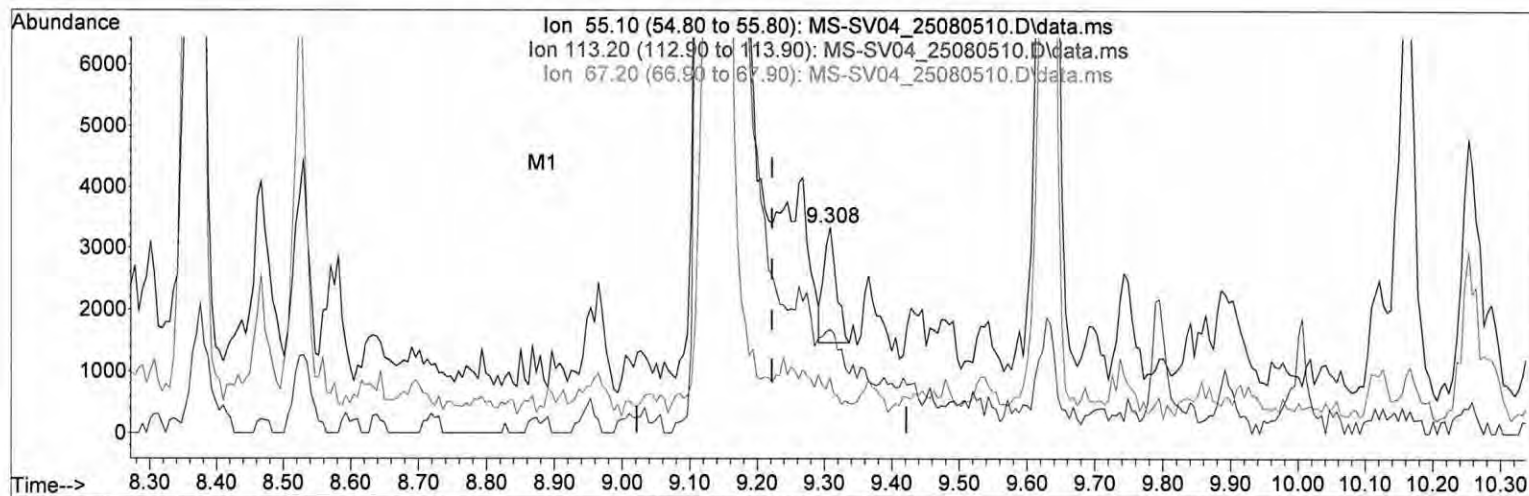
3.798min (-0.005) 38.37 ug/ml m

response 2494618

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	17.08#
86.10	17.40	12.19#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



(21) Caprolactam (T)

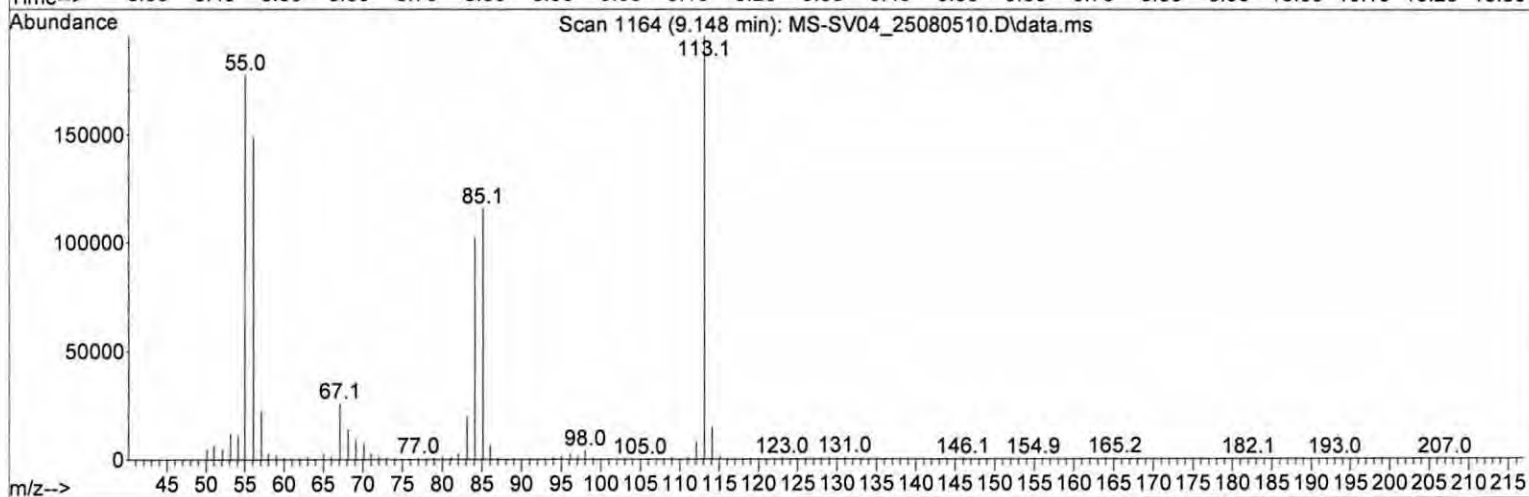
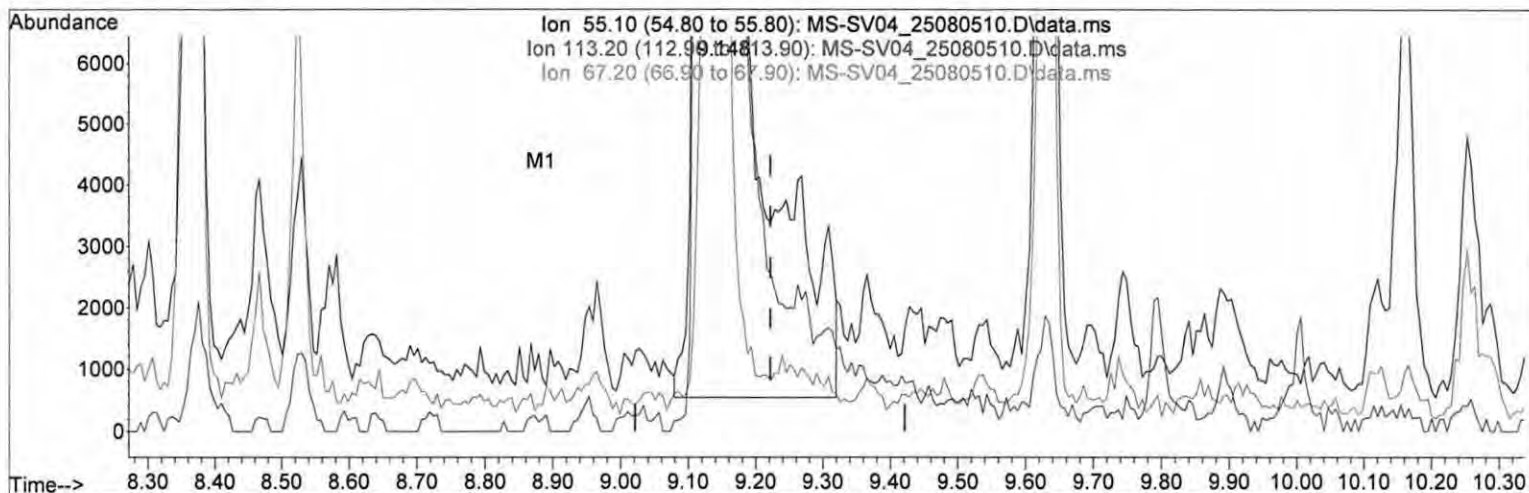
9.308min (+ 0.086) 1.77 ug/ml

response 2421

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	21.27#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080510.D
Acq On : 05 Aug 2025 05:26 pm
Operator : BMS
Sample : BIH0165-BS2
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 10:43:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080510.D\data.ms

(21) Caprolactam (T)

9.148min (-0.074) 16.01 ug/ml m

response 391358

Ion	Exp%	Act%
55.10	100.00	100.00
113.20	37.50	0.00#
67.20	6.50	0.13#
0.00	0.00	0.00

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

472 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Project: HWMU 16
Work Order: 25H0034

Matrix:	Non-Potable Water	Analysis Method:	SW8270E
Prep Batch:	BIH0165	Prep Method:	SW3510C/EPA600-MS
Percent Solids:		Laboratory ID:	BIH0165-MS1
		Source Sample ID:	25H0034-04

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	QC LIMITS REC.
Acetophenone	93.5	ND	35.4	37.9	0 - 200
Pentachloronitrobenzene (quintozene)	93.5	ND	36.6	39.2	0 - 200

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	QC LIMITS RPD	REC.
Acetophenone	93.5	38.2	40.8	7.41	20	0 - 200
Pentachloronitrobenzene (quintozene)	93.5	37.6	40.2	2.72	20	0 - 200

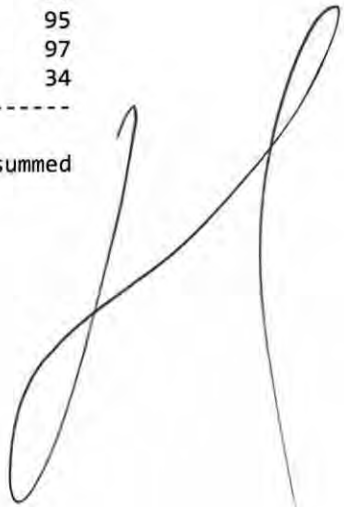
* Values outside of QC limits

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080519.D
 Acq On : 05 Aug 2025 09:44 pm
 Operator : BMS
 Sample : BIH0165-MS1
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:24:16 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

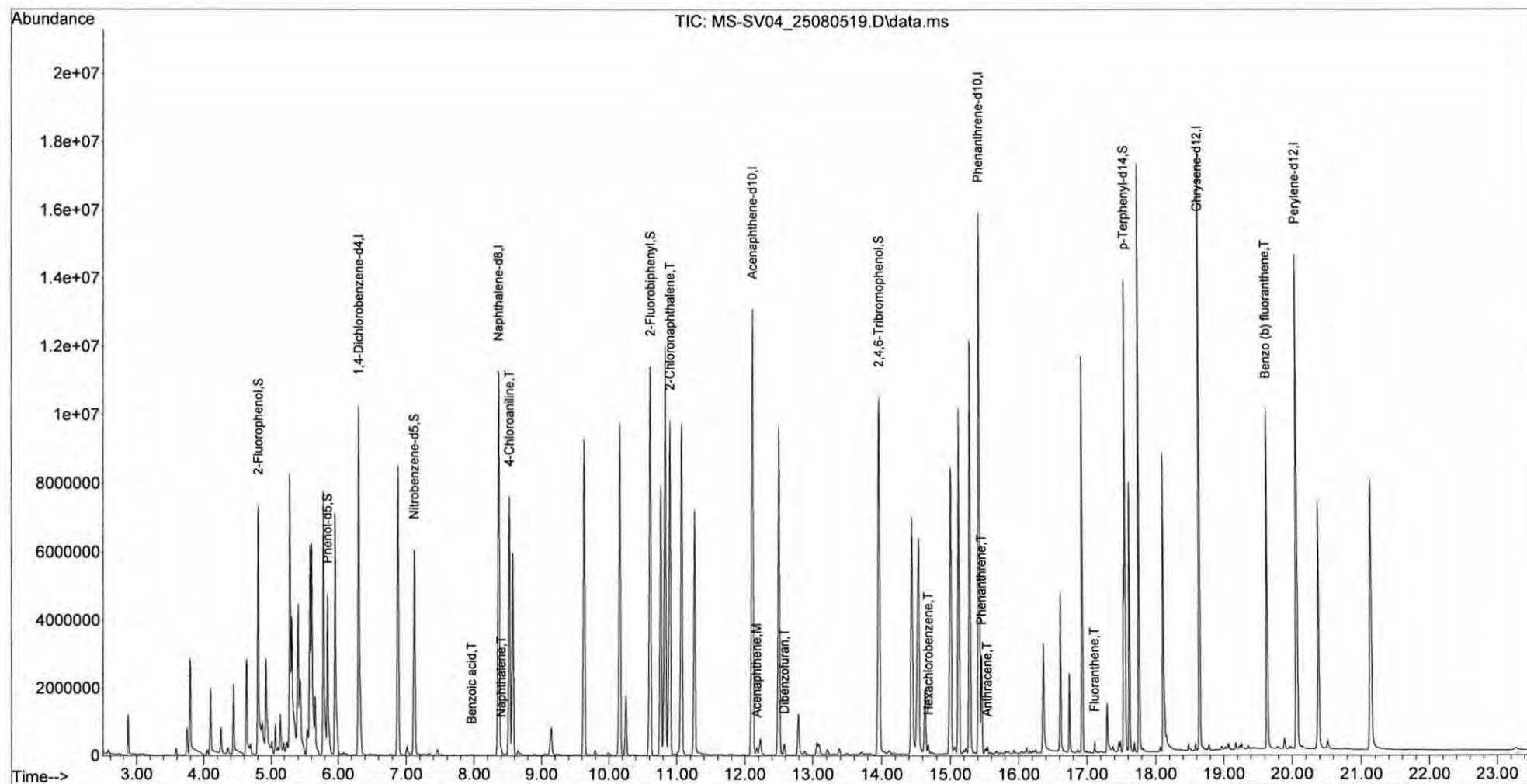
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2787024	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	8995851	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.112	164	5564461	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8648587	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	7061064	40.00	ug/ml	-0.01
81) Perylene-d12	20.077	264	7766752	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.804	112	3650413	40.48	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	40.48%		
5) Phenol-d5	5.840	99	2640231	27.15	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	27.15%		
19) Nitrobenzene-d5	7.116	82	3092725	38.60	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	77.20%		
39) 2-Fluorobiphenyl	10.612	172	6680458	33.57	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	67.14%		
64) 2,4,6-Tribromophenol	13.965	330	2885174	82.63	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	82.63%		
75) p-Terphenyl-d14	17.559	244	4903160	23.83	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	47.66%		
Target Compounds						
						Qvalue
28) Benzoic acid	7.963	105	5869	9.41	ug/ml#	77
29) Naphthalene	8.404	128	142350	0.61	ug/ml	99
30) 4-Chloroaniline	8.524	127	46773	0.51	ug/ml#	55
40) 2-Chloronaphthalene	10.898	162	5451855	35.06	ug/ml#	97
49) Acenaphthene	12.174	154	77644	0.53	ug/ml	95
51) Dibenzofuran	12.581	168	229304	1.10	ug/ml	98
66) Hexachlorobenzene	14.681	284	57420	0.83	ug/ml	92
68) Phenanthrene	15.459	178	1489096	6.38	ug/ml	97
69) Anthracene	15.539	178	115133	0.51	ug/ml	95
72) Fluoranthene	17.113	202	144009	0.59	ug/ml	97
83) Benzo (b) fluoranthene	19.642	252	274983	1.35	ug/ml#	34

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:24:16 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



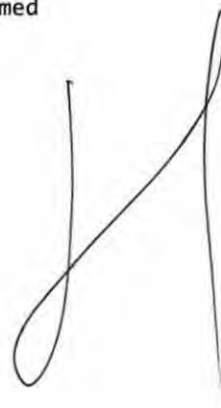
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080519.D
 Acq On : 05 Aug 2025 09:44 pm
 Operator : BMS
 Sample : BIH0165-MS1
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:24:16 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

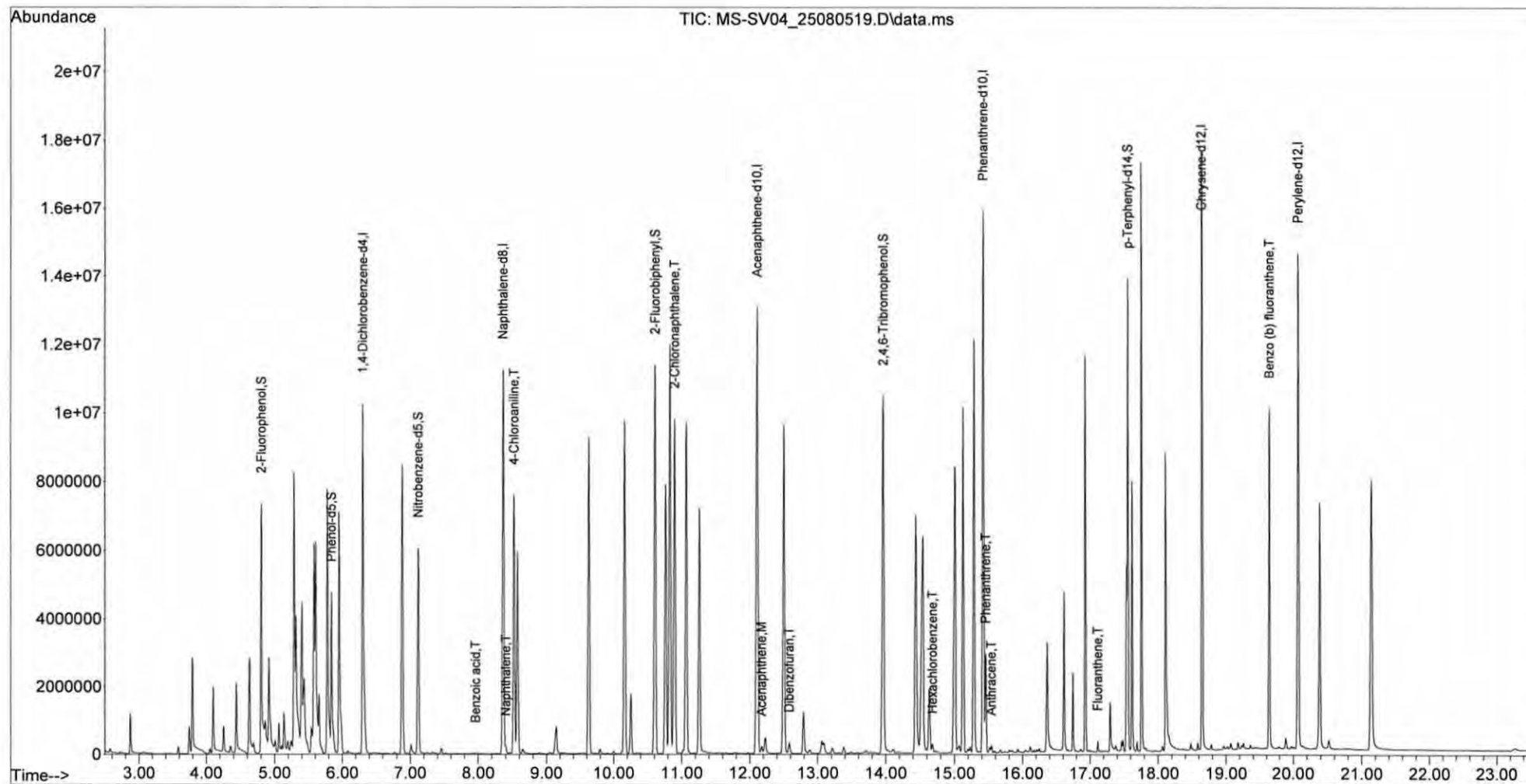
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2787024	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	8995851	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.112	164	5564461	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8648587	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	7061064	40.00	ug/ml	-0.01
81) Perylene-d12	20.077	264	7766752	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.804	112	3650413	40.48	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	40.48%		
5) Phenol-d5	5.840	99	2640231	27.15	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	27.15%		
19) Nitrobenzene-d5	7.116	82	3092725	38.60	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	77.20%		
39) 2-Fluorobiphenyl	10.612	172	6680458	33.57	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 87		Recovery =	67.14%		
64) 2,4,6-Tribromophenol	13.965	330	2885174	82.63	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	82.63%		
75) p-Terphenyl-d14	17.559	244	4903160	23.83	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	47.66%		
Target Compounds						
					Qvalue	
28) Benzoic acid	7.963	105	5869	9.41	ug/ml#	77
29) Naphthalene	8.404	128	142350	0.61	ug/ml	99
30) 4-Chloroaniline	8.524	127	46773	0.51	ug/ml#	55
40) 2-Chloronaphthalene	10.898	162	5451855	35.06	ug/ml#	97
49) Acenaphthene	12.174	154	77644	0.53	ug/ml	95
51) Dibenzofuran	12.581	168	229304	1.10	ug/ml	98
66) Hexachlorobenzene	14.681	284	57420	0.83	ug/ml	92
68) Phenanthrene	15.459	178	1489096	6.38	ug/ml	97
69) Anthracene	15.539	178	115133	0.51	ug/ml	95
72) Fluoranthene	17.113	202	144009	0.59	ug/ml	97
83) Benzo (b) fluoranthene	19.642	252	274983	1.35	ug/ml#	34

(#) = qualifier out of range (m) = manual integration (+) = signals summed



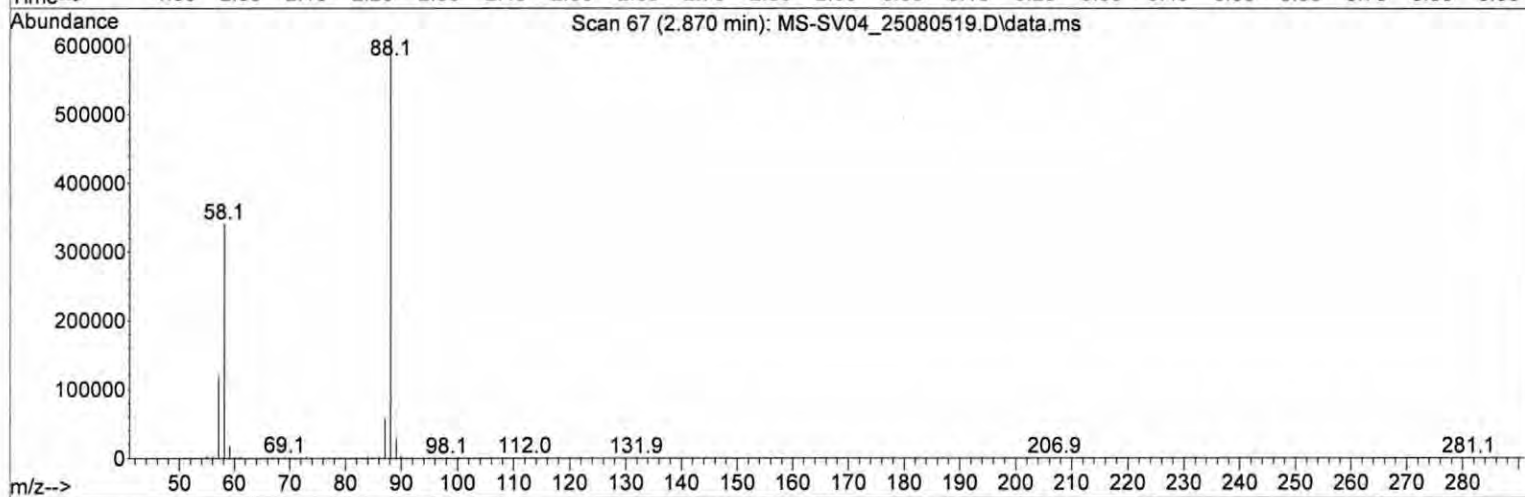
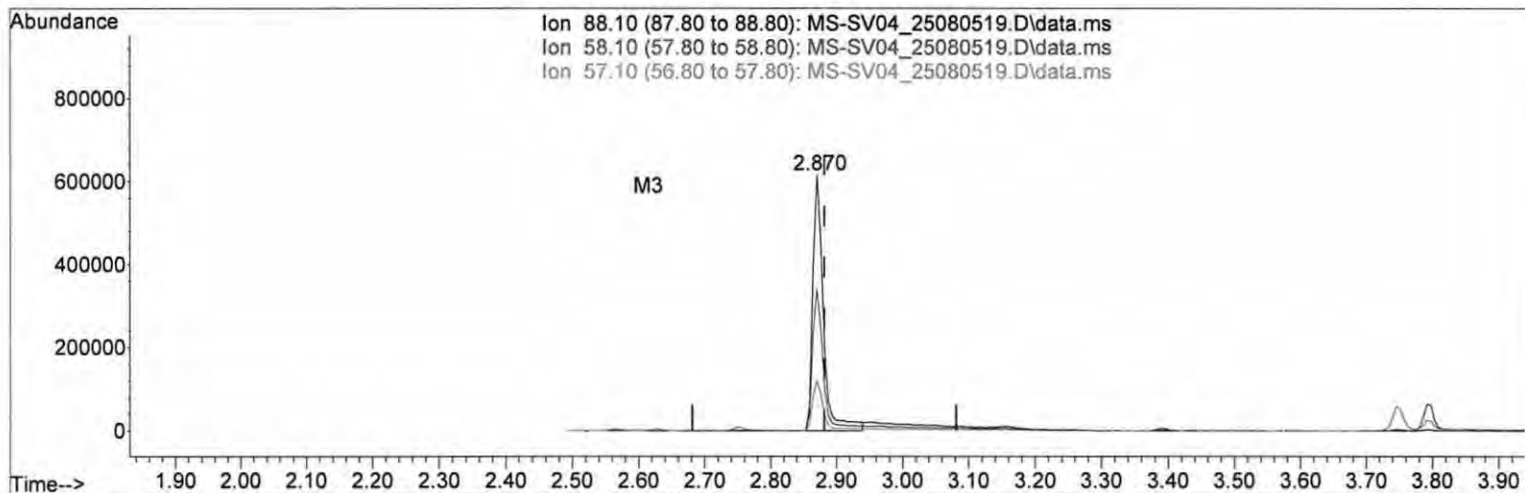
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:24:16 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 10:43:32 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080519.D\data.ms

(2) 1,4-Dioxane (T)

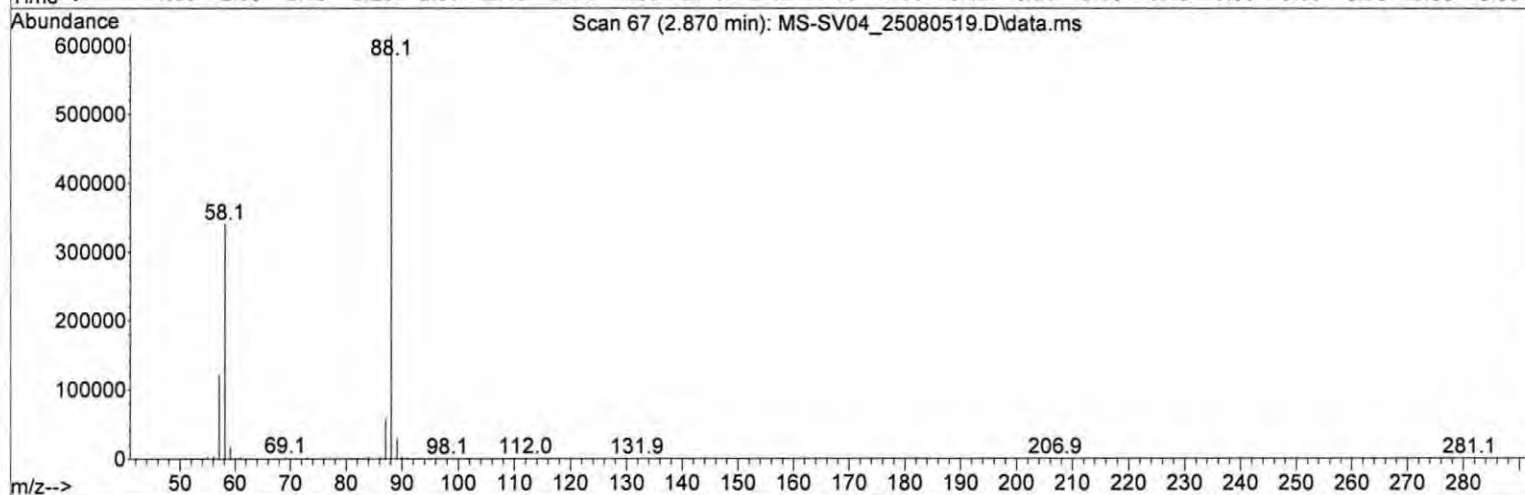
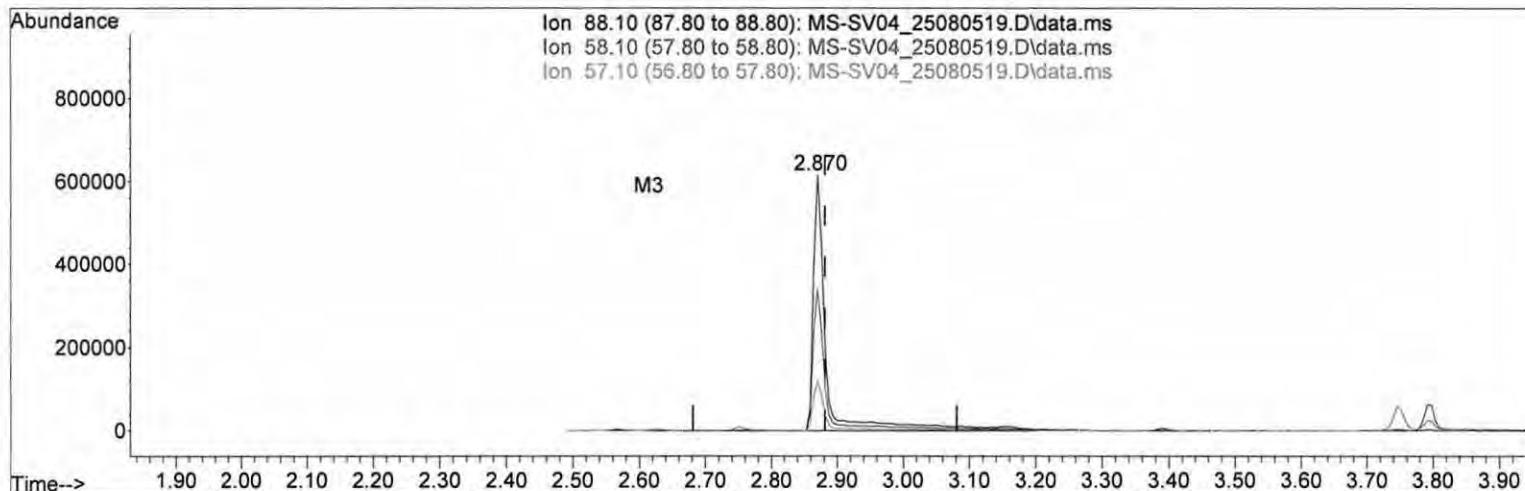
2.870min (-0.011) 19.10 ug/ml

response 681122

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	57.24#
57.10	37.00	18.49#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 10:43:32 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080519.D\data.ms

(2) 1,4-Dioxane (T)

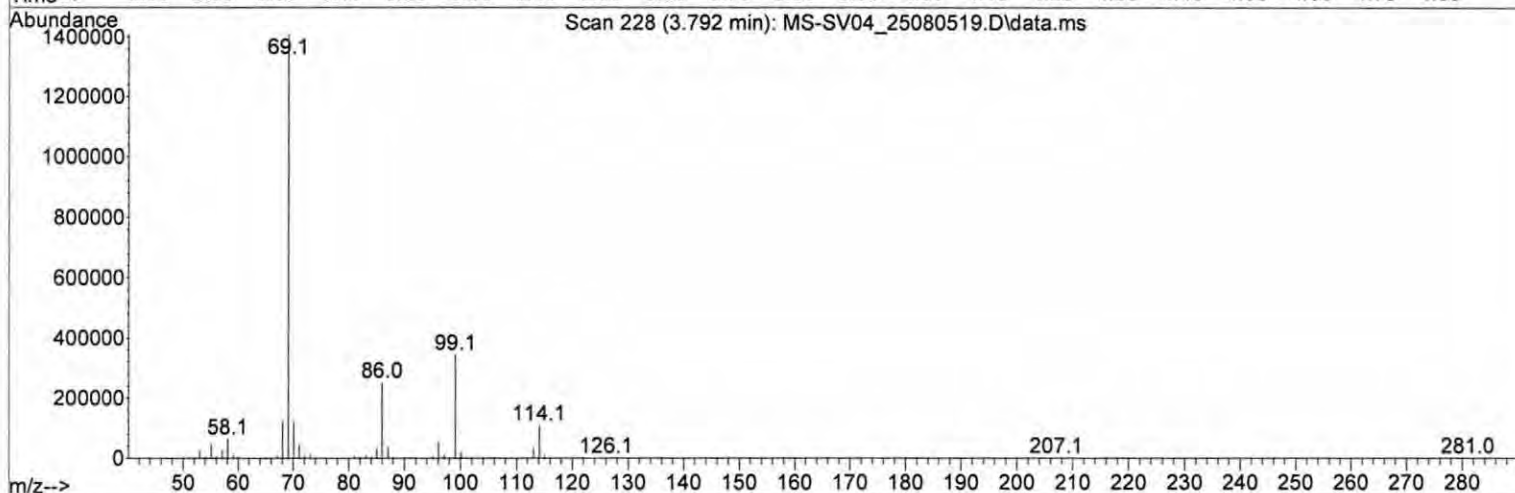
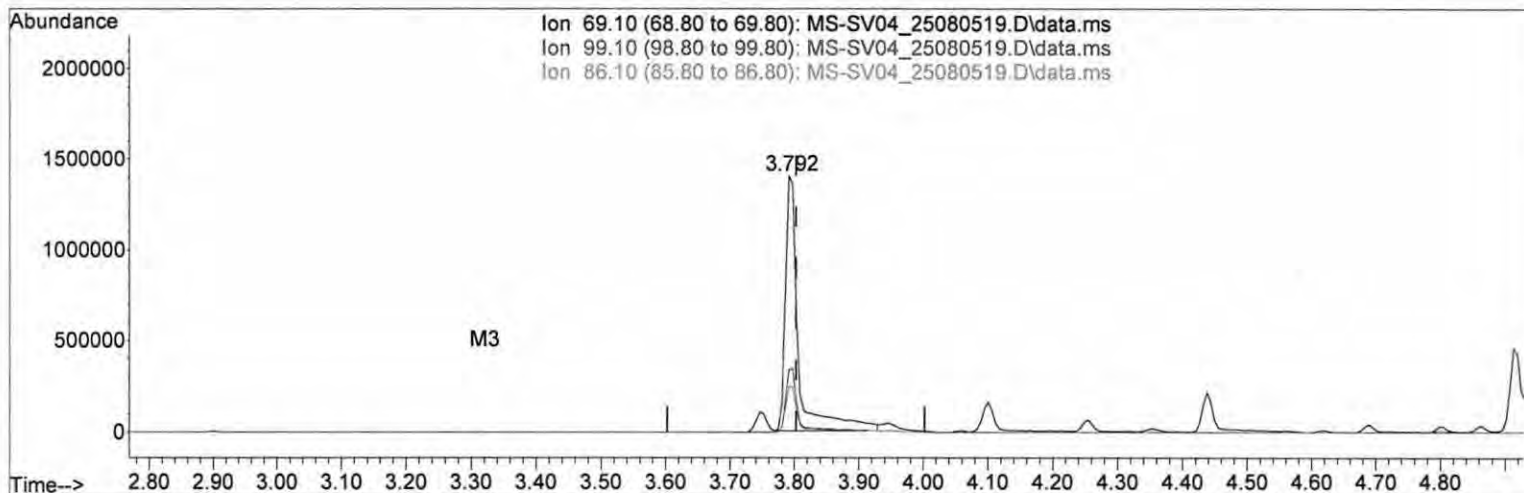
2.870min (-0.011) 24.09 ug/ml m

response 859082

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	45.38#
57.10	37.00	14.66#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 10:43:32 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080519.D\data.ms

(3) Ethyl methacrylate (T)

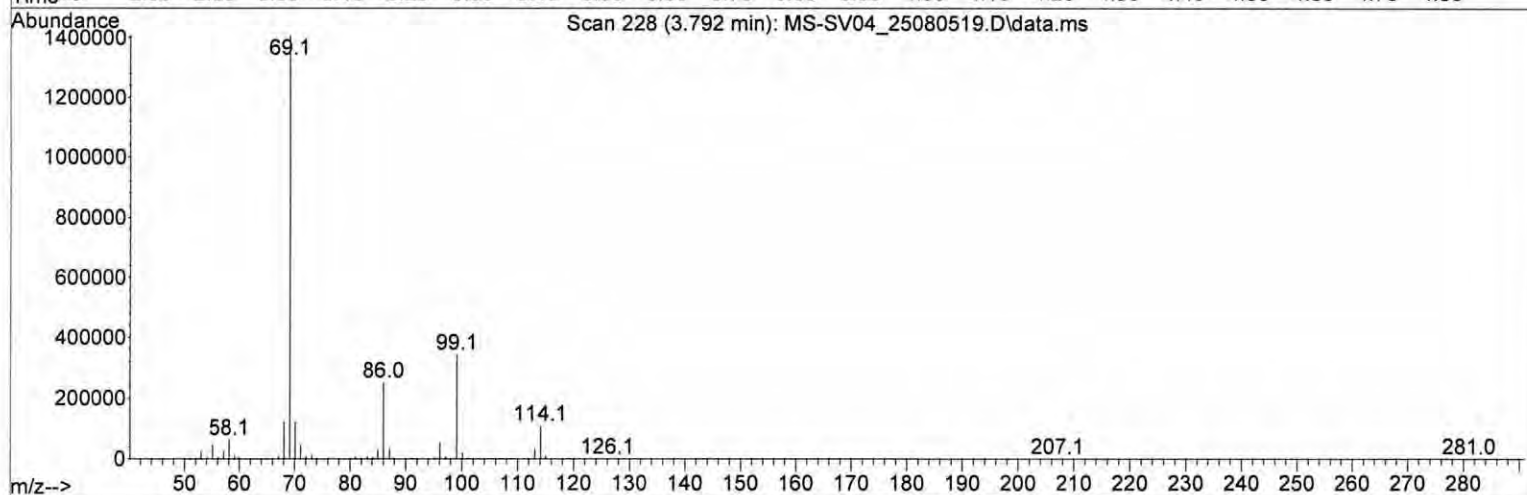
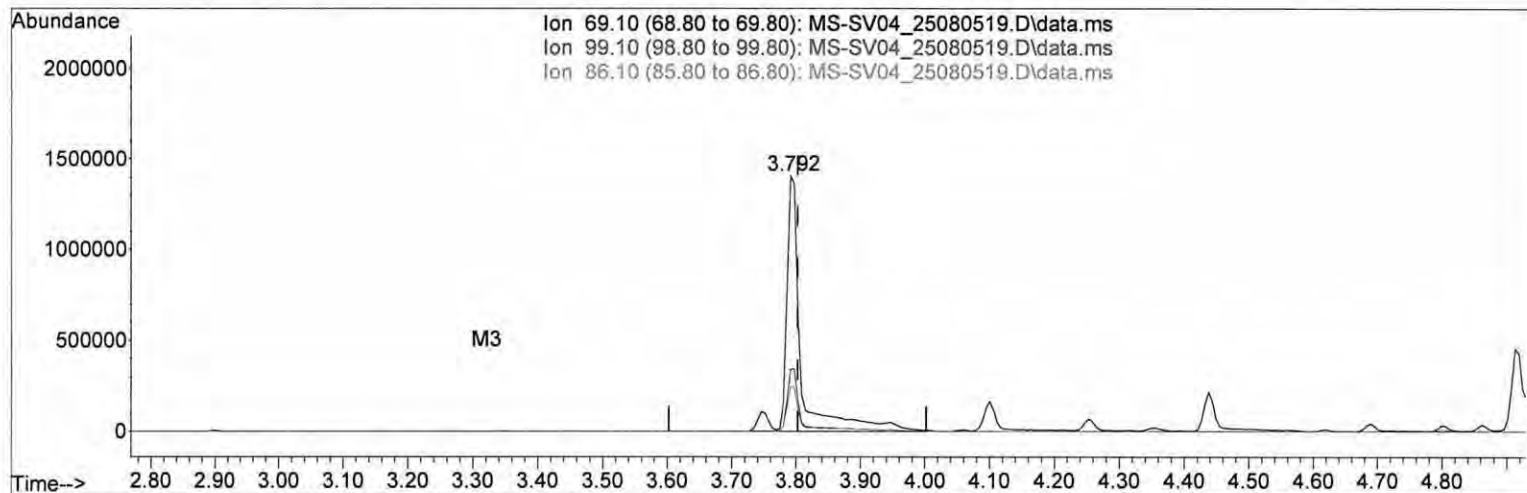
3.792min (-0.011) 31.53 ug/ml

response 1995952

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	25.42
86.10	17.40	17.58
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080519.D
Acq On : 05 Aug 2025 09:44 pm
Operator : BMS
Sample : BIH0165-MS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 10:43:32 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
Qlast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080519.D\data.ms

(3) Ethyl methacrylate (T)

3.792min (-0.011) 34.64 ug/ml m

response 2193303

Ion	Exp%	Act%
69.10	100.00	100.00
99.10	22.50	23.13
86.10	17.40	16.00
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080520.D
 Acq On : 05 Aug 2025 10:13 pm
 Operator : BMS
 Sample : BIH0165-MSD1
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:24:18 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2710142	40.00	ug/ml	0.00
21) Naphthalene-d8	8.370	136	8861928	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	5638601	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8836957	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6990014	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	7576589	40.00	ug/ml	0.00

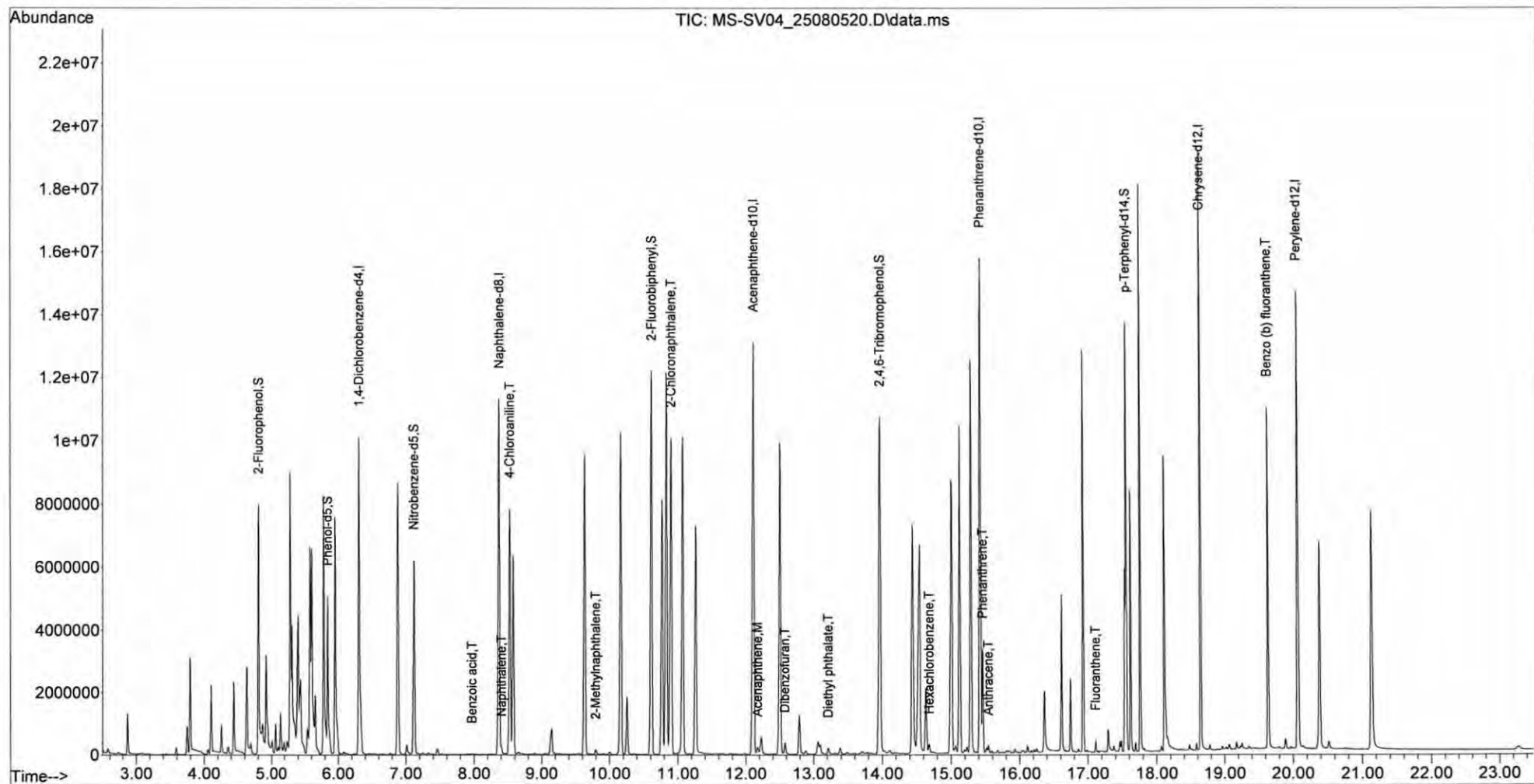
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3751517	42.78	ug/ml	0.00
Spiked Amount	100.000	Range	10 - 52	Recovery	=	42.78%
5) Phenol-d5	5.840	99	2730333	28.87	ug/ml	0.00
Spiked Amount	100.000	Range	5 - 33	Recovery	=	28.87%
19) Nitrobenzene-d5	7.116	82	3206100	41.15	ug/ml	-0.01
Spiked Amount	50.000	Range	10 - 99	Recovery	=	82.30%
39) 2-Fluorobiphenyl	10.613	172	6937227	34.40	ug/ml	0.00
Spiked Amount	50.000	Range	23 - 87	Recovery	=	68.80%
64) 2,4,6-Tribromophenol	13.966	330	3082882	86.31	ug/ml	-0.01
Spiked Amount	100.000	Range	20 - 86	Recovery	=	86.31%#
75) p-Terphenyl-d14	17.559	244	5286644	25.95	ug/ml	0.00
Spiked Amount	50.000	Range	27 - 133	Recovery	=	51.90%

Target Compounds					Qvalue	
28) Benzoic acid	7.969	105	7042	9.44	ug/ml#	69
29) Naphthalene	8.404	128	161640	0.70	ug/ml	100
30) 4-Chloroaniline	8.524	127	50007	0.56	ug/ml#	54
33) 2-Methylnaphthalene	9.794	142	74728	0.51	ug/ml	96
40) 2-Chloronaphthalene	10.899	162	5709313	36.23	ug/ml#	97
49) Acenaphthene	12.175	154	88129	0.59	ug/ml	99
51) Dibenzofuran	12.575	168	259708	1.23	ug/ml	98
56) Diethyl phthalate	13.210	149	100949	0.57	ug/ml	95
66) Hexachlorobenzene	14.681	284	61532	0.88	ug/ml	93
68) Phenanthrene	15.459	178	1624234	6.81	ug/ml	98
69) Anthracene	15.539	178	129559	0.56	ug/ml	95
72) Fluoranthene	17.113	202	162209	0.65	ug/ml	96
83) Benzo (b) fluoranthene	19.636	252	282374	1.42	ug/ml#	32

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080520.D
Acq On : 05 Aug 2025 10:13 pm
Operator : BMS
Sample : BIH0165-MSD1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:24:18 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080520.D
 Acq On : 05 Aug 2025 10:13 pm
 Operator : BMS
 Sample : BIH0165-MSD1
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

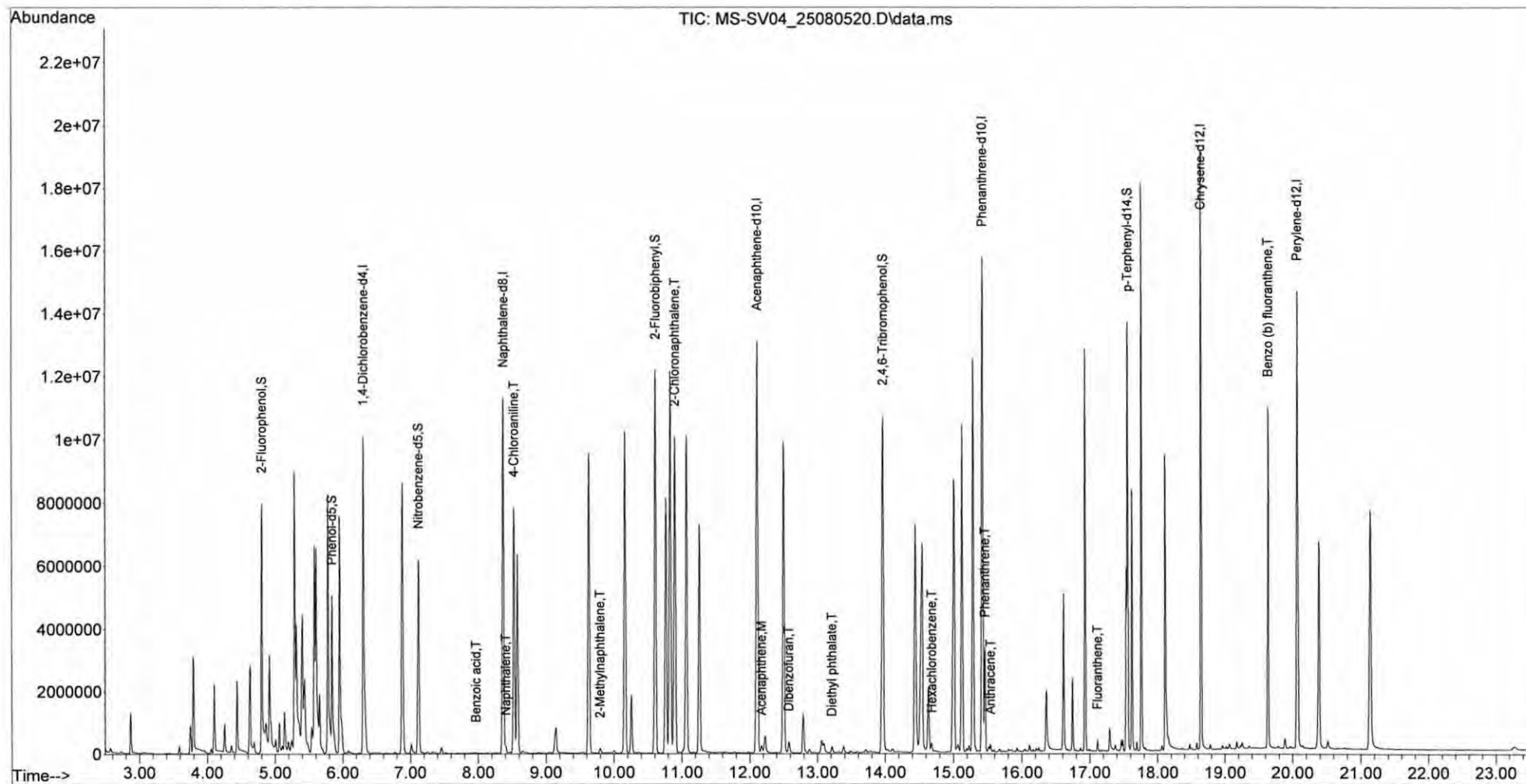
Quant Time: Aug 06 09:24:18 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2710142	40.00	ug/ml	0.00
21) Naphthalene-d8	8.370	136	8861928	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	5638601	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.425	188	8836957	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6990014	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	7576589	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3751517	42.78	ug/ml	0.00
Spiked Amount 100.000	Range 10	- 52	Recovery	=	42.78%	
5) Phenol-d5	5.840	99	2730333	28.87	ug/ml	0.00
Spiked Amount 100.000	Range 5	- 33	Recovery	=	28.87%	
19) Nitrobenzene-d5	7.116	82	3206100	41.15	ug/ml	-0.01
Spiked Amount 50.000	Range 10	- 99	Recovery	=	82.30%	
39) 2-Fluorobiphenyl	10.613	172	6937227	34.40	ug/ml	0.00
Spiked Amount 50.000	Range 23	- 87	Recovery	=	68.80%	
64) 2,4,6-Tribromophenol	13.966	330	3082882	86.31	ug/ml	-0.01
Spiked Amount 100.000	Range 20	- 86	Recovery	=	86.31%#	
75) p-Terphenyl-d14	17.559	244	5286644	25.95	ug/ml	0.00
Spiked Amount 50.000	Range 27	- 133	Recovery	=	51.90%	
Target Compounds						
28) Benzoic acid	7.969	105	7042	9.44	ug/ml#	69
29) Naphthalene	8.404	128	161640	0.70	ug/ml	100
30) 4-Chloroaniline	8.524	127	50007	0.56	ug/ml#	54
33) 2-Methylnaphthalene	9.794	142	74728	0.51	ug/ml	96
40) 2-Chloronaphthalene	10.899	162	5709313	36.23	ug/ml#	97
49) Acenaphthene	12.175	154	88129	0.59	ug/ml	99
51) Dibenzofuran	12.575	168	259708	1.23	ug/ml	98
56) Diethyl phthalate	13.210	149	100949	0.57	ug/ml	95
66) Hexachlorobenzene	14.681	284	61532	0.88	ug/ml	93
68) Phenanthrene	15.459	178	1624234	6.81	ug/ml	98
69) Anthracene	15.539	178	129559	0.56	ug/ml	95
72) Fluoranthene	17.113	202	162209	0.65	ug/ml	96
83) Benzo (b) fluoranthene	19.636	252	282374	1.42	ug/ml#	32

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080520.D
Acq On : 05 Aug 2025 10:13 pm
Operator : BMS
Sample : BIH0165-MSD1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:24:18 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



SURROGATE SUMMARY SHEET

485 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Work Order: 25H0034
Project: HWMU 16

Surrogate Compound	Spike level	% Recovery	Recovery Limits	Q
LCS (BIH0165-BS1) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 16:29
2,4,6-Tribromophenol (Surr)	100	70.3	5 - 136	
2-Fluorobiphenyl (Surr)	50.0	56.4	9 - 117	
2-Fluorophenol (Surr)	100	39.0	5 - 60	
Nitrobenzene-d5 (Surr)	50.0	65.6	5 - 151	
Phenol-d5 (Surr)	100	26.3	5 - 60	
p-Terphenyl-d14 (Surr)	50.0	62.8	5 - 141	
Blank (BIH0165-BLK1) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 16:57
2,4,6-Tribromophenol (Surr)	100	72.9	5 - 136	
2-Fluorobiphenyl (Surr)	50.0	60.3	9 - 117	
2-Fluorophenol (Surr)	100	39.9	5 - 60	
Nitrobenzene-d5 (Surr)	50.0	70.9	5 - 151	
Phenol-d5 (Surr)	100	28.4	5 - 60	
p-Terphenyl-d14 (Surr)	50.0	66.1	5 - 141	
LCS (BIH0165-BS2) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 17:26
2,4,6-Tribromophenol (Surr)	100	92.0	5 - 136	
2-Fluorobiphenyl (Surr)	50.0	75.9	9 - 117	
2-Fluorophenol (Surr)	100	47.3	5 - 60	
Nitrobenzene-d5 (Surr)	50.0	83.1	5 - 151	
Phenol-d5 (Surr)	100	33.4	5 - 60	
p-Terphenyl-d14 (Surr)	50.0	75.1	5 - 141	
16C1 (25H0034-01) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 19:50
2,4,6-Tribromophenol (Surr)	95.2	86.1	5 - 136	
2-Fluorobiphenyl (Surr)	47.6	71.0	9 - 117	
2-Fluorophenol (Surr)	95.2	42.8	5 - 60	
Nitrobenzene-d5 (Surr)	47.6	81.6	5 - 151	
Phenol-d5 (Surr)	95.2	28.4	5 - 60	
p-Terphenyl-d14 (Surr)	47.6	63.1	5 - 141	
16MW8 (25H0034-02) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 20:18
2,4,6-Tribromophenol (Surr)	93.5	76.8	5 - 136	
2-Fluorobiphenyl (Surr)	46.7	64.6	9 - 117	
2-Fluorophenol (Surr)	93.5	37.0	5 - 60	
Nitrobenzene-d5 (Surr)	46.7	77.3	5 - 151	
Phenol-d5 (Surr)	93.5	24.0	5 - 60	
p-Terphenyl-d14 (Surr)	46.7	54.6	5 - 141	
16MW9 (25H0034-03) ug/L		Lab File ID: MS-SV04_25080!		Analyzed: 08/05/25 20:47
2,4,6-Tribromophenol (Surr)	93.5	84.9	5 - 136	
2-Fluorobiphenyl (Surr)	46.7	68.3	9 - 117	
2-Fluorophenol (Surr)	93.5	40.7	5 - 60	
Nitrobenzene-d5 (Surr)	46.7	79.3	5 - 151	
Phenol-d5 (Surr)	93.5	27.0	5 - 60	
p-Terphenyl-d14 (Surr)	46.7	54.8	5 - 141	

SURROGATE SUMMARY SHEET

486 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
 Work Order: 25H0034
 Project: HWMU 16

Surrogate Compound	Spike level	% Recovery	Recovery Limits	Q
16WC1A (25H0034-04) ug/L		Lab File ID: MS-SV04_250801		Analyzed: 08/05/25 21:15
2,4,6-Tribromophenol (Surr)	95.2	91.7	5 - 136	
2-Fluorobiphenyl (Surr)	47.6	73.1	9 - 117	
2-Fluorophenol (Surr)	95.2	40.3	5 - 60	
Nitrobenzene-d5 (Surr)	47.6	84.1	5 - 151	
Phenol-d5 (Surr)	95.2	26.4	5 - 60	
p-Terphenyl-d14 (Surr)	47.6	66.1	5 - 141	
Matrix Spike (BIH0165-MS1) ug/L		Lab File ID: MS-SV04_250801		Analyzed: 08/05/25 21:44
2,4,6-Tribromophenol (Surr)	93.5	82.6	5 - 136	
2-Fluorobiphenyl (Surr)	46.7	67.1	9 - 117	
2-Fluorophenol (Surr)	93.5	40.5	5 - 60	
Nitrobenzene-d5 (Surr)	46.7	77.2	5 - 151	
Phenol-d5 (Surr)	93.5	27.2	5 - 60	
p-Terphenyl-d14 (Surr)	46.7	47.7	5 - 141	
Matrix Spike Dup (BIH0165-MSD1) ug/L		Lab File ID: MS-SV04_250801		Analyzed: 08/05/25 22:13
2,4,6-Tribromophenol (Surr)	93.5	86.3	5 - 136	
2-Fluorobiphenyl (Surr)	46.7	68.8	9 - 117	
2-Fluorophenol (Surr)	93.5	42.8	5 - 60	
Nitrobenzene-d5 (Surr)	46.7	82.3	5 - 151	
Phenol-d5 (Surr)	93.5	28.9	5 - 60	
p-Terphenyl-d14 (Surr)	46.7	51.9	5 - 141	
16WDUP (25H0034-05) ug/L		Lab File ID: MS-SV04_250801		Analyzed: 08/05/25 22:42
2,4,6-Tribromophenol (Surr)	95.2	81.5	5 - 136	
2-Fluorobiphenyl (Surr)	47.6	66.3	9 - 117	
2-Fluorophenol (Surr)	95.2	39.6	5 - 60	
Nitrobenzene-d5 (Surr)	47.6	76.4	5 - 151	
Phenol-d5 (Surr)	95.2	26.2	5 - 60	
p-Terphenyl-d14 (Surr)	47.6	65.5	5 - 141	
16WC1B (25H0034-06) ug/L		Lab File ID: MS-SV04_250801		Analyzed: 08/05/25 23:10
2,4,6-Tribromophenol (Surr)	98.0	84.9	5 - 136	
2-Fluorobiphenyl (Surr)	49.0	69.7	9 - 117	
2-Fluorophenol (Surr)	98.0	38.7	5 - 60	
Nitrobenzene-d5 (Surr)	49.0	77.2	5 - 151	
Phenol-d5 (Surr)	98.0	25.6	5 - 60	
p-Terphenyl-d14 (Surr)	49.0	54.4	5 - 141	

INTERNAL STANDARD AREA AND RT SUMMARY

487 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Work Order: 25H0034
Project: HWMU 16

Sequence: SIG1011

Instrument: MS-SV04

Calibration: AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIG1011-ICV2)			<i>Lab File ID: MS-SV04_25071824.D</i>			<i>Analyzed: 07/19/25 01:19</i>			
1,4-Dichlorobenzene-d4 (IS)	4802519	6.212	4807208	6.212	100	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9493916	8.261	9498087	8.255	100	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5826432	11.986	5234072	11.98	111	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8803951	15.316	8510389	15.316	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	7208501	18.549	7109033	18.555	101	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7165379	19.939	8011125	19.939	89	50 - 200	0.0000	+/-0.50	
Initial Cal Check (SIG1011-ICV3)			<i>Lab File ID: MS-SV04_25071835.D</i>			<i>Analyzed: 07/19/25 06:31</i>			
1,4-Dichlorobenzene-d4 (IS)	3449936	6.212	4807208	6.212	72	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	10458730	8.255	9498087	8.255	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	5824054	11.98	5234072	11.98	111	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	9407182	15.316	8510389	15.316	111	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	7422364	18.555	7109033	18.555	104	50 - 200	0.0000	+/-0.50	
Perylene-d12 (IS)	8075766	19.94	8011125	19.939	101	50 - 200	0.0010	+/-0.50	
Initial Cal Check (SIG1011-ICV4)			<i>Lab File ID: MS-SV04_25071844.D</i>			<i>Analyzed: 07/19/25 10:46</i>			
1,4-Dichlorobenzene-d4 (IS)	4398350	6.212	4807208	6.212	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8660367	8.255	9498087	8.255	91	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	4885182	11.98	5234072	11.98	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	7509653	15.31	8510389	15.316	88	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (IS)	5935397	18.549	7109033	18.555	83	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6682394	19.939	8011125	19.939	83	50 - 200	0.0000	+/-0.50	
Initial Cal Check (SIG1011-ICV1)			<i>Lab File ID: MS-SV04_25071914.D</i>			<i>Analyzed: 07/23/25 13:50</i>			
1,4-Dichlorobenzene-d4 (IS)	3315958	6.218	4398350	6.212	75	50 - 200	0.0060	+/-0.50	
Naphthalene-d8 (IS)	10376880	8.266	8660367	8.255	120	50 - 200	0.0110	+/-0.50	
Acenaphthene-d10 (IS)	6287541	11.997	4885182	11.98	129	50 - 200	0.0170	+/-0.50	
Phenanthrene-d10 (IS)	9729707	15.322	7509653	15.31	130	50 - 200	0.0120	+/-0.50	
Chrysene-d12 (IS)	7198314	18.566	5935397	18.549	121	50 - 200	0.0170	+/-0.50	
Perylene-d12 (IS)	7134051	19.951	6682394	19.939	107	50 - 200	0.0120	+/-0.50	

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY

SW8270E

Client:

Work Order:

Project:

Sequence:

Draper Aden Associates - Blacksburg

25H0034

HWMU 16

SIG1016

Instrument:

Calibration:

MS-SV04

AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIG1016-ICV1)			Lab File ID: MS-SV04_25071855.D			Analyzed: 07/19/25 16:01			
1,4-Dichlorobenzene-d4 (IS)	3090200	6.212	3418338	6.212	90	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9429192	8.255	10388310	8.255	91	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	5559134	11.98	6153945	11.986	90	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8420136	15.31	9504214	15.316	89	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (IS)	6882033	18.549	7930741	18.555	87	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7738910	19.939	9037212	19.94	86	50 - 200	-0.0010	+/-0.50	

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY

489 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
 Work Order: 25H0034
 Project: HWMU 16

Sequence: SIH0223

Instrument: MS-SV04

Calibration: AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (SIH0223-CCV1)			<i>Lab File ID: MS-SV04_25080503.D</i>			<i>Analyzed: 08/05/25 13:15</i>			
1,4-Dichlorobenzene-d4 (IS)	2671318	6.304	3418338	6.212	78	50 - 200	0.0920	+/-0.50	
Naphthalene-d8 (IS)	8934896	8.375	1.038831E+07	8.255	86	50 - 200	0.1200	+/-0.50	
Acenaphthene-d10 (IS)	5569144	12.117	6153945	11.986	90	50 - 200	0.1310	+/-0.50	
Phenanthrene-d10 (IS)	8961942	15.419	9504214	15.316	94	50 - 200	0.1030	+/-0.50	
Chrysene-d12 (IS)	6894640	18.658	7930741	18.555	87	50 - 200	0.1030	+/-0.50	
Perylene-d12 (IS)	7617378	20.077	9037212	19.94	84	50 - 200	0.1370	+/-0.50	
Calibration Check (SIH0223-CCV2)			<i>Lab File ID: MS-SV04_25080504.D</i>			<i>Analyzed: 08/05/25 13:44</i>			
1,4-Dichlorobenzene-d4 (IS)	4220996	6.304	2671318	6.304	158	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8619108	8.369	8934896	8.375	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5367685	12.111	5569144	12.117	96	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8260808	15.425	8961942	15.419	92	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (IS)	6697775	18.652	6894640	18.658	97	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7107795	20.077	7617378	20.077	93	50 - 200	0.0000	+/-0.50	
Calibration Check (SIH0223-CCV3)			<i>Lab File ID: MS-SV04_25080505.D</i>			<i>Analyzed: 08/05/25 14:13</i>			
1,4-Dichlorobenzene-d4 (IS)	2957803	6.304	4220996	6.304	70	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9342483	8.37	8619108	8.369	108	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10 (IS)	5549543	12.112	5367685	12.111	103	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (IS)	8637699	15.419	8260808	15.425	105	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (IS)	6425349	18.646	6697775	18.652	96	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7082425	20.071	7107795	20.077	100	50 - 200	-0.0060	+/-0.50	
Calibration Check (SIH0223-CCV5)			<i>Lab File ID: MS-SV04_25080507.D</i>			<i>Analyzed: 08/05/25 15:10</i>			
1,4-Dichlorobenzene-d4 (IS)	3030130	6.304	2957803	6.304	102	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9392758	8.37	9342483	8.37	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	5566814	12.112	5549543	12.112	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8622000	15.419	8637699	15.419	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6967711	18.652	6425349	18.646	108	50 - 200	0.0060	+/-0.50	
Perylene-d12 (IS)	7695368	20.077	7082425	20.071	109	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

490 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
 Work Order: 25H0034
 Project: HWMU 16
 Sequence: SIH0223

Instrument: MS-SV04
 Calibration: AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (BIH0165-BS1)			<i>Lab File ID: MS-SV04_25080508.D</i>			<i>Analyzed: 08/05/25 16:29</i>			
1,4-Dichlorobenzene-d4 (IS)	3382277	6.315	3030130	6.304	112	50 - 200	0.0110	+/-0.50	
Naphthalene-d8 (IS)	11155900	8.381	9392758	8.37	119	50 - 200	0.0110	+/-0.50	
Acenaphthene-d10 (IS)	6954940	12.123	5566814	12.112	125	50 - 200	0.0110	+/-0.50	
Phenanthrene-d10 (IS)	10413540	15.43	8622000	15.419	121	50 - 200	0.0110	+/-0.50	
Chrysene-d12 (IS)	7823556	18.663	6967711	18.652	112	50 - 200	0.0110	+/-0.50	
Perylene-d12 (IS)	8353741	20.088	7695368	20.077	109	50 - 200	0.0110	+/-0.50	
Blank (BIH0165-BLK1)			<i>Lab File ID: MS-SV04_25080509.D</i>			<i>Analyzed: 08/05/25 16:57</i>			
1,4-Dichlorobenzene-d4 (IS)	3357787	6.304	3030130	6.304	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	10593050	8.369	9392758	8.37	113	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10 (IS)	6658343	12.112	5566814	12.112	120	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	10067290	15.419	8622000	15.419	117	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	7425382	18.652	6967711	18.652	107	50 - 200	0.0000	+/-0.50	
Perylene-d12 (IS)	8177281	20.077	7695368	20.077	106	50 - 200	0.0000	+/-0.50	
LCS (BIH0165-BS2)			<i>Lab File ID: MS-SV04_25080510.D</i>			<i>Analyzed: 08/05/25 17:26</i>			
1,4-Dichlorobenzene-d4 (IS)	2864655	6.304	3030130	6.304	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9072055	8.37	9392758	8.37	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	5555039	12.112	5566814	12.112	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8454335	15.425	8622000	15.419	98	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (IS)	7250803	18.652	6967711	18.652	104	50 - 200	0.0000	+/-0.50	
Perylene-d12 (IS)	8032594	20.077	7695368	20.077	104	50 - 200	0.0000	+/-0.50	
16C1 (25H0034-01)			<i>Lab File ID: MS-SV04_25080515.D</i>			<i>Analyzed: 08/05/25 19:50</i>			
1,4-Dichlorobenzene-d4 (IS)	2607330	6.304	3030130	6.304	86	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8393361	8.364	9392758	8.37	89	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5133419	12.106	5566814	12.112	92	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8030006	15.419	8622000	15.419	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6554826	18.646	6967711	18.652	94	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7340332	20.071	7695368	20.077	95	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

491 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Work Order: 25H0034
Project: HWMU 16

Sequence: SIH0223

Instrument: MS-SV04

Calibration: AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
16MW8 (25H0034-02)			<i>Lab File ID: MS-SV04_25080516.D</i>			<i>Analyzed: 08/05/25 20:18</i>			
1,4-Dichlorobenzene-d4 (IS)	2692671	6.304	3030130	6.304	89	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8711527	8.364	9392758	8.37	93	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5287191	12.106	5566814	12.112	95	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8084640	15.419	8622000	15.419	94	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6076203	18.646	6967711	18.652	87	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6570287	20.071	7695368	20.077	85	50 - 200	-0.0060	+/-0.50	
16MW9 (25H0034-03)			<i>Lab File ID: MS-SV04_25080517.D</i>			<i>Analyzed: 08/05/25 20:47</i>			
1,4-Dichlorobenzene-d4 (IS)	2838119	6.304	3030130	6.304	94	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9169520	8.364	9392758	8.37	98	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5556409	12.112	5566814	12.112	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8565718	15.419	8622000	15.419	99	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6384607	18.646	6967711	18.652	92	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6861625	20.071	7695368	20.077	89	50 - 200	-0.0060	+/-0.50	
16WC1A (25H0034-04)			<i>Lab File ID: MS-SV04_25080518.D</i>			<i>Analyzed: 08/05/25 21:15</i>			
1,4-Dichlorobenzene-d4 (IS)	2908130	6.304	3030130	6.304	96	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	9278727	8.369	9392758	8.37	99	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10 (IS)	5658596	12.112	5566814	12.112	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8652194	15.419	8622000	15.419	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6217816	18.646	6967711	18.652	89	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6750660	20.077	7695368	20.077	88	50 - 200	0.0000	+/-0.50	
Matrix Spike (BIH0165-MS1)			<i>Lab File ID: MS-SV04_25080519.D</i>			<i>Analyzed: 08/05/25 21:44</i>			
1,4-Dichlorobenzene-d4 (IS)	2787024	6.304	3030130	6.304	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8995851	8.364	9392758	8.37	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5564461	12.112	5566814	12.112	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8648587	15.425	8622000	15.419	100	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (IS)	7061064	18.646	6967711	18.652	101	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7766752	20.077	7695368	20.077	101	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

492 of 521

SW8270E

Client: Draper Aden Associates - Blacksburg
Work Order: 25H0034
Project: HWMU 16

Sequence: SIH0223

Instrument: MS-SV04

Calibration: AG50329

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BIH0165-MSD1)			<i>Lab File ID: MS-SV04_25080520.D</i>			<i>Analyzed: 08/05/25 22:13</i>			
1,4-Dichlorobenzene-d4 (IS)	2710142	6.304	3030130	6.304	89	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8861928	8.37	9392758	8.37	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (IS)	5638601	12.112	5566814	12.112	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (IS)	8836957	15.425	8622000	15.419	102	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (IS)	6990014	18.646	6967711	18.652	100	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	7576589	20.071	7695368	20.077	98	50 - 200	-0.0060	+/-0.50	
16WDUP (25H0034-05)			<i>Lab File ID: MS-SV04_25080521.D</i>			<i>Analyzed: 08/05/25 22:42</i>			
1,4-Dichlorobenzene-d4 (IS)	2745691	6.304	3030130	6.304	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8846936	8.364	9392758	8.37	94	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5339877	12.106	5566814	12.112	96	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8128300	15.419	8622000	15.419	94	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	5830933	18.646	6967711	18.652	84	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6174337	20.071	7695368	20.077	80	50 - 200	-0.0060	+/-0.50	
16WC1B (25H0034-06)			<i>Lab File ID: MS-SV04_25080522.D</i>			<i>Analyzed: 08/05/25 23:10</i>			
1,4-Dichlorobenzene-d4 (IS)	2796747	6.304	3030130	6.304	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (IS)	8888874	8.364	9392758	8.37	95	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (IS)	5416892	12.106	5566814	12.112	97	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (IS)	8337409	15.419	8622000	15.419	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (IS)	6367431	18.646	6967711	18.652	91	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (IS)	6764329	20.071	7695368	20.077	88	50 - 200	-0.0060	+/-0.50	

* Values outside of QC limits

Analysis Sequence Raw Data

Sequence	SIH0223
Instrument	MS-SV04
Analysis	SVOC SW8270

Analysis Sequence

SIH0223

494 of 521
Printed: 08/21/2025 3:41 pm



Department: SV-MS
Instrument: MS-SV04
Calibration ID: AG50329

Sequence Date: 08/05/2025

Lab Number	Cont	Sample Name	Order	Source	STD ID	ISTD ID	Comments Log Extraction
SIH0223-CCV1		Calibration Check	1	-	5F03457	5B04320	
SIH0223-CCV2		Calibration Check	2	-	5E04791	5B04320	
SIH0223-CCV3		Calibration Check	3	-	5G03626	5B04320	
SIH0223-CCV5		Calibration Check	4	-	5B04311	5B04320	
BIH0165-BS1		LCS	5	-		5B04320	
BIH0165-BLK1		Blank	6	-		5B04320	
BIH0165-BS2		LCS	7	-		5B04320	
25G3226-02	E	B-3	8			5B04320	
25G3226-04	E	B-2	9			5B04320	
25G3226-06	E	B-1	10			5B04320	
25H0017-01	G	Water Supply Well	11			5B04320	Multiple Versions available Multiple Versions available
25H0034-01	B	16C1	12			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD
25H0034-02	A	16MW8	13			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD
25H0034-03	A	16MW9	14			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD
25H0034-04	A	16WC1A	15			5B04320	BatchQC Added for BatchQC in: BIH0165
25H0034-04	A	16WC1A	16			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD
BIH0165-MS1		Matrix Spike	17	25H0034-04		5B04320	
BIH0165-MSD1		Matrix Spike Dup	18	25H0034-04		5B04320	
25H0034-05	B	16WDUP	19			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD

Analysis Sequence

Printed: 08/05/2025 3:41 pm

SIH0223

(Continued)



Department: SV-MS
Instrument: MS-SV04
Calibration ID: AG50329

Sequence Date: 08/05/2025

Lab Number	Cont	Sample Name	Order	Source	STD ID	ISTD ID	Comments
							Log Extraction
25H0034-06	A	16WC1B	20			5B04320	See Keith before extracting requires special LCS MS MSD See Keith before extracting requires special LCS MS MSD
25H0021-07	A	02-Stage	21			5B04320	
25H0021-08	A	DC-Stage	22			5B04320	



EXTRACTION LOGBOOK

Analyst: MHL EMPAnalysis: SVOC H₂OPrep Batch ID: B1H0165Spike ID: 5G03353Solvent ID: 5D04399Surrogate ID: 5F02649Balance ID: —Batch Start Date/Time: 8.5.25 0900Batch End Date/Time: 8.5.25 1400Therm ID: 288Turbovap ID: 1-12Turbovap Start Temp (°C): Therm Reading 39.0 °C Correction Factor -0.2 Corrected Therm Reading 38.8 °CPg 1 of Pg 1Turbovap Stop Temp (°C): Therm Reading 39.0 °C Correction Factor -0.2 Corrected Therm Reading 38.8 °CTest Code: SVOC SW8270,SVOC TB13.1B

Due	Sample ID	Initial Mass/Volume circle g or mL	Final Volume (mL)	Initial pH	pH 1	pH 2	Spike Volume (μL)	Surrogate Volume (μL)	Comments
	MB	1000	1	7	<2	>13		500	
	LCS 1	↓	↓	↓	↓	↓	500	↓	
	LCS 2	↓	↓	↓	↓	↓	↓	↓	5H02478
	MS 25H0034-4B	1070	↓	↓	↓	↓	↓	↓	↓
	MSD 34-4C	↓	↓	↓	↓	↓	↓	↓	↓
8/12	25G3226-2E	1030	↓	↓	↓	↓	↓	↓	
	-4E	↓	↓	↓	↓	↓	↓	↓	
	-6E	1070	↓	↓	↓	↓	↓	↓	
8/13	25H0017-1G	980	↓	↓	↓	↓	↓	↓	
	21-7A	1070	↓	↓	↓	↓	↓	↓	nicotine smell
	-8A	↓	↓	3	↓	↓	↓	↓	↓
	34-1B	1050	↓	7	↓	↓	↓	↓	
	-2A	1070	↓	↓	↓	↓	↓	↓	
	-3A	1050	↓	↓	↓	↓	↓	↓	
	-4A	1050	↓	↓	↓	↓	↓	↓	
	-5B	↓	↓	↓	↓	↓	↓	↓	
	-6A	1020	↓	↓	↓	↓	↓	↓	
			③						

NaSulfate ID: 5G04419① 1070Misc. ID: —Acid/Base ID: 5G04001/5H02065② 9.5.25Misc. ID: —② 5H02065
EMP 8.5.25③ EMP
8.5.25

PREPARATION BENCH SHEET

497 of 521

BIH0165

Enthalpy Analytical

Matrix: Non-Potable Water

Prepared using: SV-MS - SW3510C/EPA600-MS

Printed: 8/5/2025 2:11:29PM

Lab Number	Cont	Client	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments Batch Comments
25G3226-02 B-3	E		08/05/2025 09:00	1030	1				
SVOC SW8270	/								
25G3226-04 B-2	E		08/05/2025 09:00	1030	1				
SVOC SW8270	/								
25G3226-06 B-1	E		08/05/2025 09:00	1070	1				
SVOC SW8270	/								
25H0017-01 Water Supply Well	G		08/05/2025 09:00	980	1				
SVOC Tbl 3.1B	Manually apply pest and PCB versions / Multiple Versions available / Multiple Versions available								
25H0021-07 02-Stage	A		08/05/2025 09:00	1070	1				
SVOC SW8270	/ / /								
25H0021-08 DC-Stage	A		08/05/2025 09:00	1070	1				
SVOC SW8270	/ / /								

PREPARATION BENCH SHEET

498 of 521

BIH0165

Enthalpy Analytical

Matrix: Non-Potable Water

Prepared using: SV-MS - SW3510C/EPA600-MS

Printed: 8/5/2025 2:11:29PM

Lab Number	Cont	Client	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments Batch Comments
25H0034-01 16C1	B	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1050	1				
SVOC SW8270	/ / See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD								
25H0034-02 16MW8	A	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1070	1				
SVOC SW8270	/ / See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD								
25H0034-03 16MW9	A	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1070	1				
SVOC SW8270	/ / See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD								
25H0034-04 16WC1A	A	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1050	1				
SVOC Tbl 3.1B	MS/MSD / / Added for BatchQC in: BIH0165 / BatchQC		SVOC SW8270	MS/MSD / / See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD					
25H0034-05 16WDUP	B	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1050	1				

PREPARATION BENCH SHEET

499 of 521

BIH0165

Enthalpy Analytical

Matrix: Non-Potable Water

Prepared using: SV-MS - SW3510C/EPA600-MS

Printed: 8/5/2025 2:11:29PM

Lab Number	Cont	Client	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments Batch Comments
SVOC SW8270	/	See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD							
25H0034-06 16WC18	A	Draper Aden Associates - Blacksburg	08/05/2025 09:00	1020	1				
SVOC SW8270	/	See Keith before extracting requires special LCS MS MSD / See Keith before extracting requires special LCS MS MSD							
BIH0165-BLK1 Blank			08/05/2025 09:00	1000	1				
BIH0165-BS1 LCS			08/05/2025 09:00	1000	1	5G03353		500	
BIH0165-BS2 LCS			08/05/2025 09:00	1000	1	5H02478		500	
BIH0165-MS1 Matrix Spike			08/05/2025 09:00	1070	1	5H02478	25H0034-04	1000	
BIH0165-MSD1 Matrix Spike Dup			08/05/2025 09:00	1070	1	5H02478	25H0034-04	1000	

Tune File : D:\MassHunter\GCMS\1\data\2508\250805\MS-SV04_25080503.D
Tune Time : 05 Aug 2025 01:15 pm

Daily Calibration File : D:\MassHunter\GCMS\1\data\2508\250805\MS-SV04_25080503.D

2671320 8934900 5569140

8961940 6894640 7617380

File Sample Surrogate Recovery % Internal Standard Responses

MS-SV04_25080503.D
SEQ-CCV1 38 37* 80 73 2671318 8934896 5569144
44 78 8961942 6894640 7617378

MS-SV04_25080508.D
BIH0165-BS 39 26 66 56 3382277 11155899 6954940 123
70 63 10413490 7824489 8353741

MS-SV04_25080509.D
BIH0165-BL 40 28 71 60 3357787 10593048 6658343 123 S
73 66 10067291 7425382 8177281

MS-SV04_25080510.D
BIH0165-BS 47 33* 83 76 2864655 9072055 5555039 123
92* 75 8454335 7250803 8032594

MS-SV04_25080511.D
25G3226-02 42 29 79 70 2739228 8658933 5304536 123 S
87* 60 7932621 5850839 6345440

MS-SV04_25080512.D
25G3226-04 44 30 84 72 2660080 8594475 5265936 123 S
88* 61 8295117 6901574 7464104

MS-SV04_25080513.D
25G3226-06 44 29 78 69 2802691 8859968 5333739 123 S
85 58 8010089 6104946 6574293

MS-SV04_25080514.D
25H0017-01 43 29 80 69 2793968 9030985 5509318 1,2
83 68 8591879 6644187 7312697

MS-SV04_25080515.D
25H0035-01 43 28 82 71 2607330 8393361 5133419
34 86* 63 8030006 6554826 7340332
HLV 08/06/25

MS-SV04_25080516.D
25H0035-02 37 24 77 65 2692671 8711527 5287191
34 77 55 8084640 6076203 6570287
HLV 08/06/25

MS-SV04_25080517.D
25H0035-03 41 27 79 68 2838119 9169520 5556409
34 85 55 8565718 6384607 6861625
HLV 08/06/25

MS-SV04_25080518.D
25H0035-04 40 26 84 73 2908130 9278727 5658596 1,2
34 92* 66 8652194 6217816 6750660
HLV 08/06/25

MS-SV04_25080519.D
BIH0165-MS 40 27 77 67 2787024 8995851 5564461 123
83 48 8648587 7061064 7766752

MS-SV04_25080520.D

acetophenone
bis (2-ethylhexyl)
phthalate

pentachlorophenol
2,3,4,5-tetrachloro-
phenol
pentachloro-
nitro benzene

BIH0165-MS	43	29	82	69	2710142	8861928	5638601
	86*	52			8836957	6990014	7576589

123
501 of 521

MS-SV04_25080521.D							
25H0035-05	40	26	76	66	2745691	8846936	5339877
	81	66			8128300	5830933	6174337
34	HLV	08/06/24					
		08/06/25					

penta chloro-
1,2 - nitrobenzene

MS-SV04_25080522.D							
25H0035-06	39	26	77	70	2796747	8888874	5416892
	85	54			8337409	6367431	6764329
34	HLV	08/06/25					

1,2

MS-SV04_25080523.D							
25H0021-07	0*	0*	1*	1*	3341593	10525828	6613929
	4*	2*			10119025	8026248	8027188

pentachlorophenol

MS-SV04_25080524.D							
25H0021-08	22	15	52	36	2914418	9495321	5938272
	60	12*			9285066	6901794	6470331

(54) 2,3,4,6 tetrachloro-
phenol

(38) 2,4,5 - trichloro-
phenol

(37) 2,4,6 - trichlorophenol

(fails) - fails 15hr time check * - fails criteria

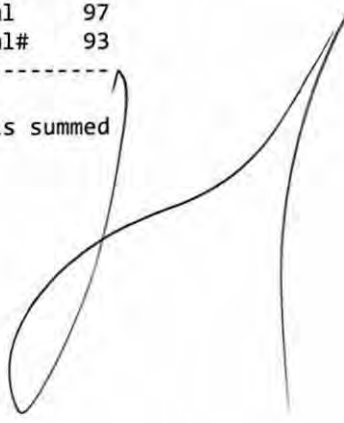
Created: Wed Aug 06 09:28:27 2025 MS-SV04

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080515.D
 Acq On : 05 Aug 2025 07:50 pm
 Operator : BMS
 Sample : 25H0035-01
 Misc : 34 HLY 08/06/25
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 09:24:08 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

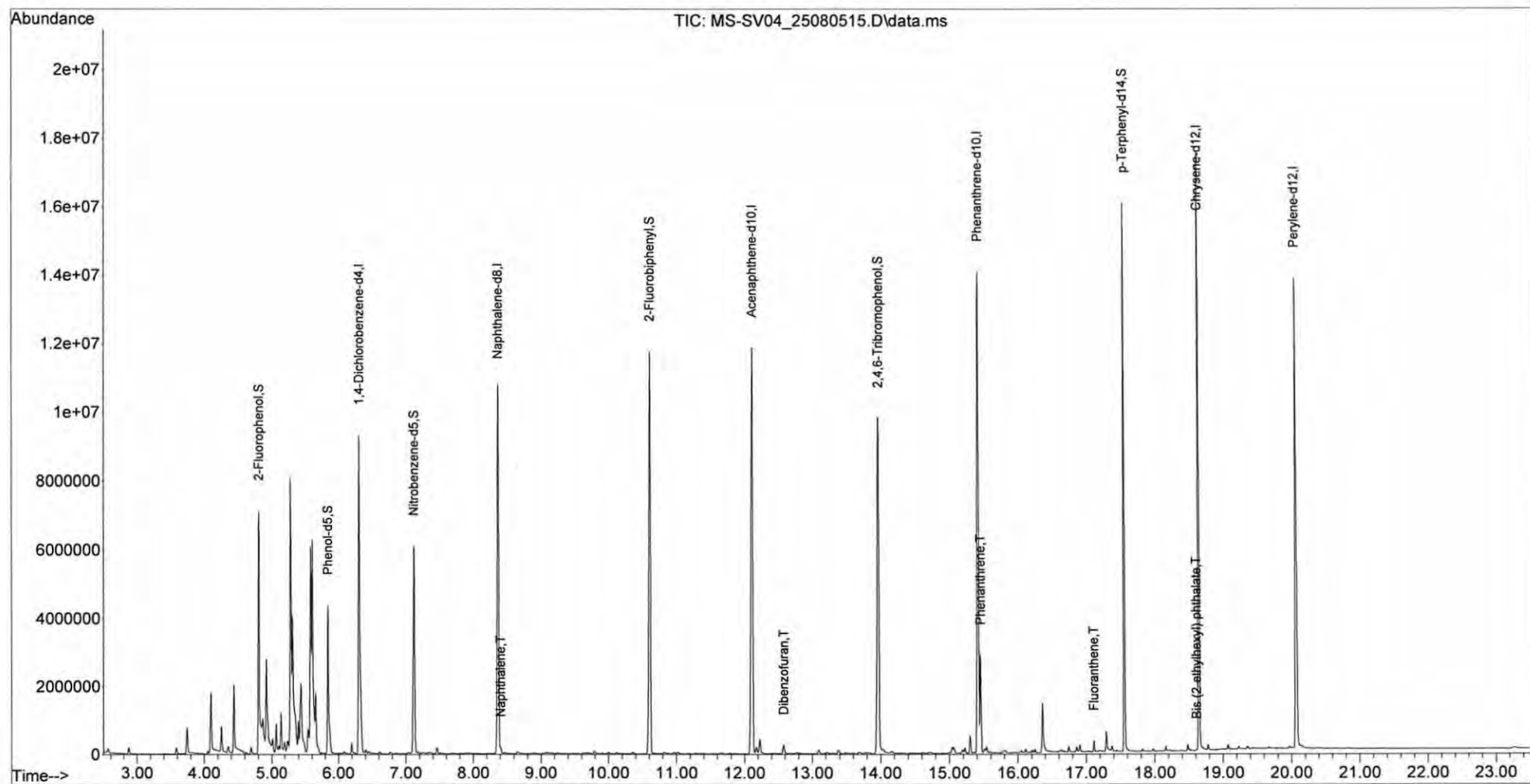
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2607330	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	8393361	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.106	164	5133419	40.00	ug/ml	-0.02
63) Phenanthrene-d10	15.419	188	8030006	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6554826	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	7340332	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3606691	42.75	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	42.75%		
5) Phenol-d5	5.840	99	2584299	28.41	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	28.41%		
19) Nitrobenzene-d5	7.116	82	3059572	40.82	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	81.64%		
39) 2-Fluorobiphenyl	10.607	172	6518741	35.50	ug/ml	-0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	71.00%		
64) 2,4,6-Tribromophenol	13.966	330	2794420	86.10	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	86.10%#		
75) p-Terphenyl-d14	17.559	244	6026168	31.55	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	63.10%		
Target Compounds						
29) Naphthalene	8.404	128	115229	0.53	ug/ml	99
51) Dibenzofuran	12.581	168	188327	0.98	ug/ml	98
68) Phenanthrene	15.453	178	1410079	6.50	ug/ml	97
72) Fluoranthene	17.113	202	143969	0.64	ug/ml	97
80) Bis (2-ethylhexyl) pht...	18.612	149	13698	1.24	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



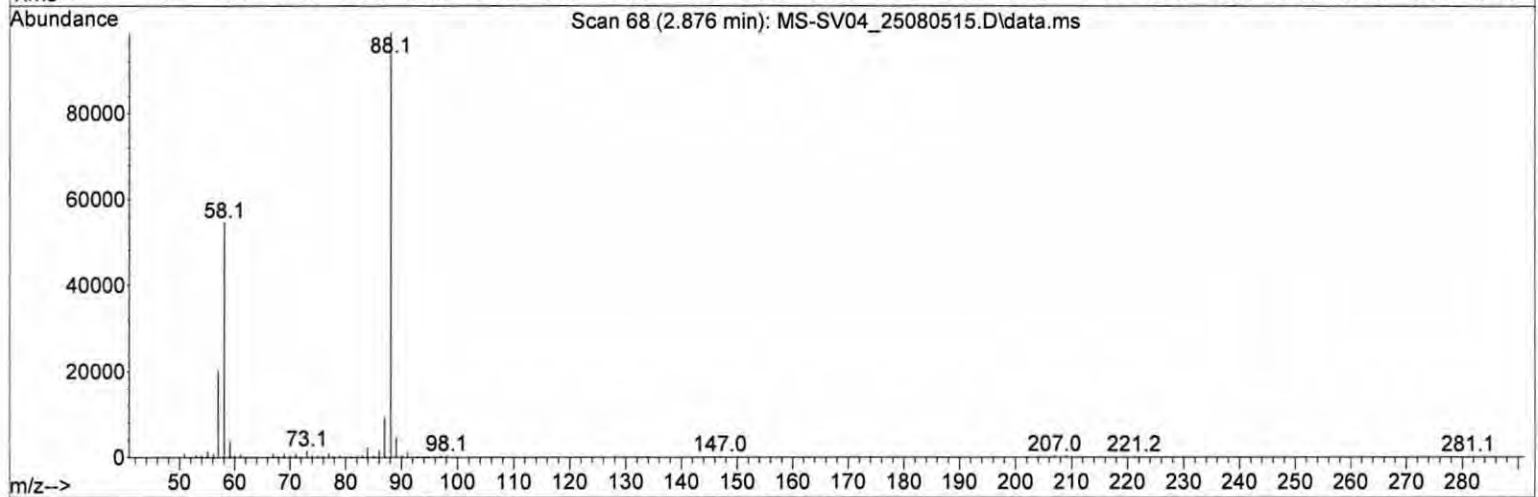
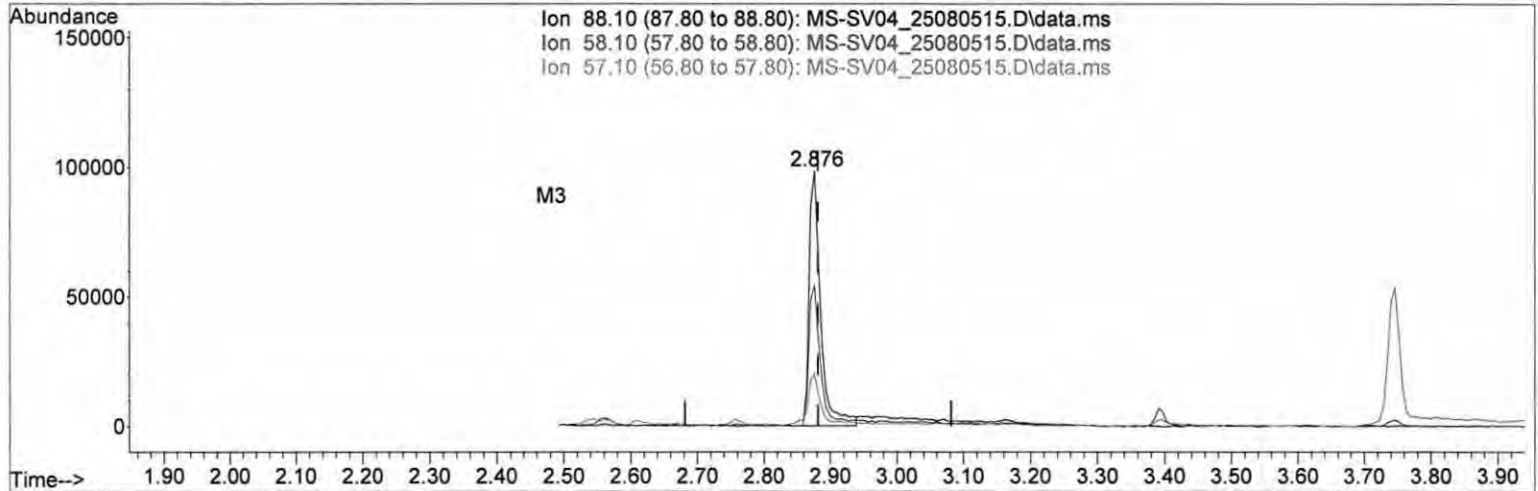
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080515.D
Acq On : 05 Aug 2025 07:50 pm
Operator : BMS
Sample : 25H0035-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 09:24:08 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080515.D
Acq On : 05 Aug 2025 07:50 pm
Operator : BMS
Sample : 25H0035-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 10:43:24 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080515.D\data.ms

(2) 1,4-Dioxane (T)

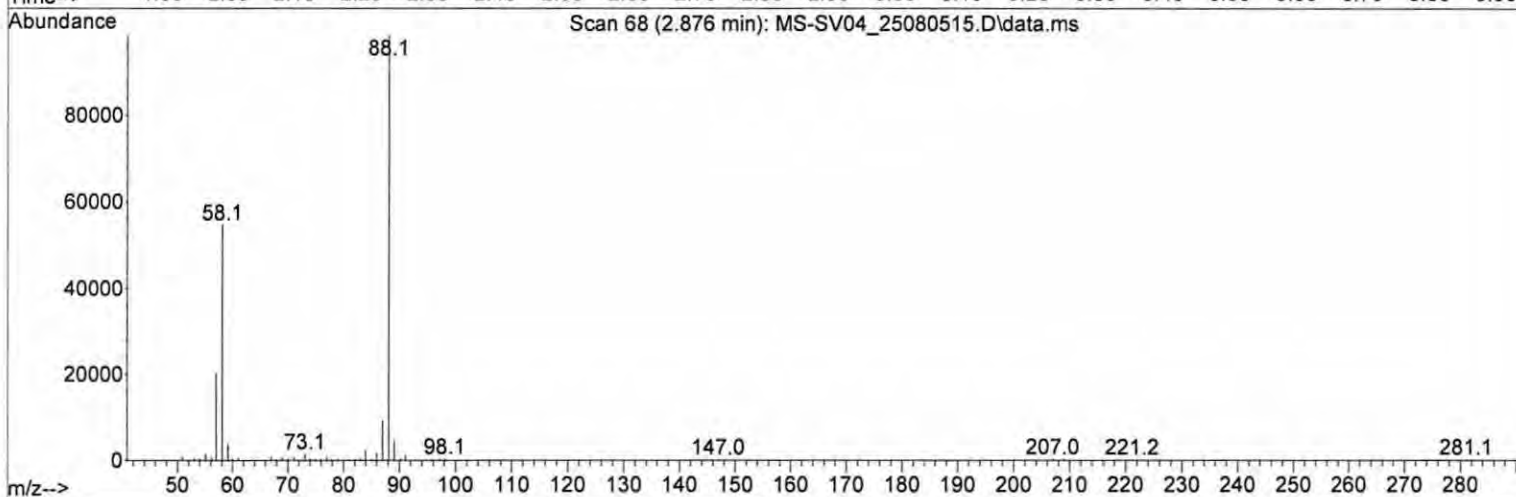
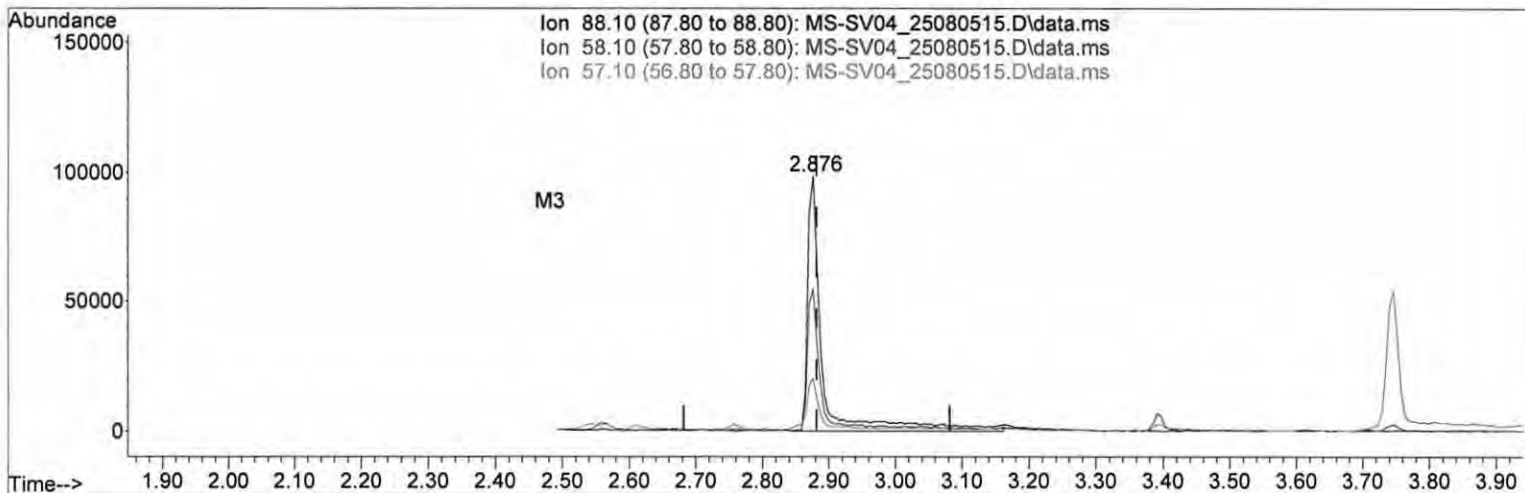
2.876min (-0.005) 3.52 ug/ml

response 117312

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.20#
57.10	37.00	24.16#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080515.D
Acq On : 05 Aug 2025 07:50 pm
Operator : BMS
Sample : 25H0035-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 10:43:24 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080515.D\data.ms

(2) 1,4-Dioxane (T)

2.876min (-0.005) 4.64 ug/ml m

response 154753

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	41.84#
57.10	37.00	18.32#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080516.D
 Acq On : 05 Aug 2025 08:18 pm
 Operator : BMS
 Sample : 25H0035-02
 Misc : 34 WLY 08/06/25
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 09:24:10 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.304	152	2692671	40.00 ug/ml	0.00
21) Naphthalene-d8	8.364	136	8711527	40.00 ug/ml	-0.01
36) Acenaphthene-d10	12.106	164	5287191	40.00 ug/ml	-0.02
63) Phenanthrene-d10	15.419	188	8084640	40.00 ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6076203	40.00 ug/ml	-0.01
81) Perylene-d12	20.071	264	6570287	40.00 ug/ml	0.00

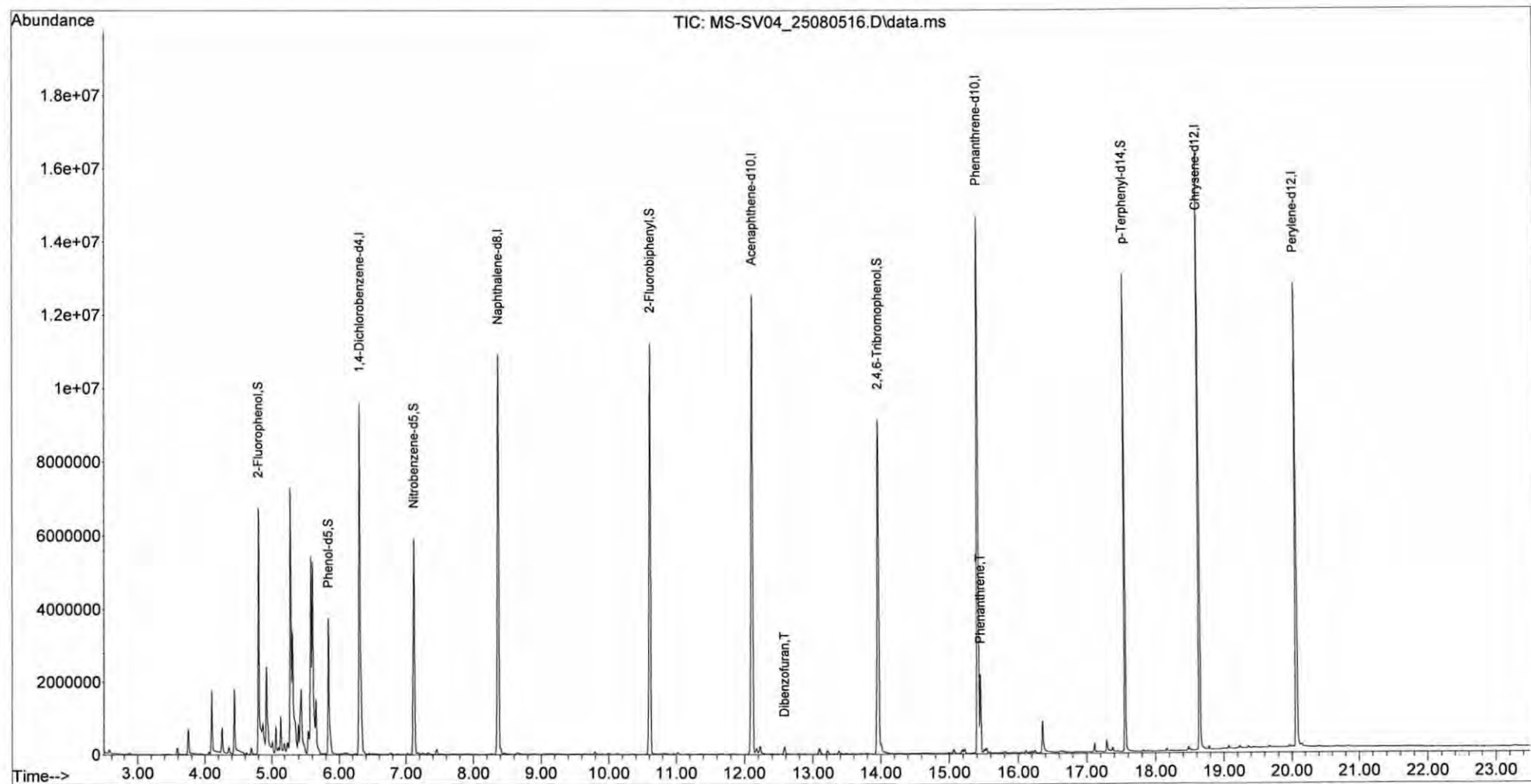
System Monitoring Compounds					
4) 2-Fluorophenol	4.799	112	3226528	37.03 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	37.03%	
5) Phenol-d5	5.834	99	2258861	24.04 ug/ml	-0.01
Spiked Amount 100.000	Range 5 - 33		Recovery =	24.04%	
19) Nitrobenzene-d5	7.116	82	2993943	38.67 ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	77.34%	
39) 2-Fluorobiphenyl	10.607	172	6105608	32.29 ug/ml	-0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	64.58%	
64) 2,4,6-Tribromophenol	13.960	330	2500593	76.77 ug/ml	-0.02
Spiked Amount 100.000	Range 20 - 86		Recovery =	76.77%	
75) p-Terphenyl-d14	17.559	244	4833482	27.30 ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	54.60%	

Target Compounds				Qvalue
51) Dibenzofuran	12.581	168	151612	0.77 ug/ml 97
68) Phenanthrene	15.453	178	1084628	4.97 ug/ml 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080516.D
Acq On : 05 Aug 2025 08:18 pm
Operator : BMS
Sample : 25H0035-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 09:24:10 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



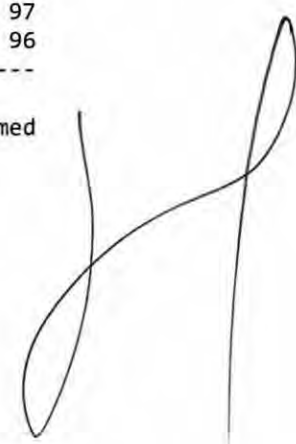
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080517.D
 Acq On : 05 Aug 2025 08:47 pm
 Operator : BMS
 Sample : 25H0035-03
 Misc : 34 HLY 08/06/25
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 09:24:12 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

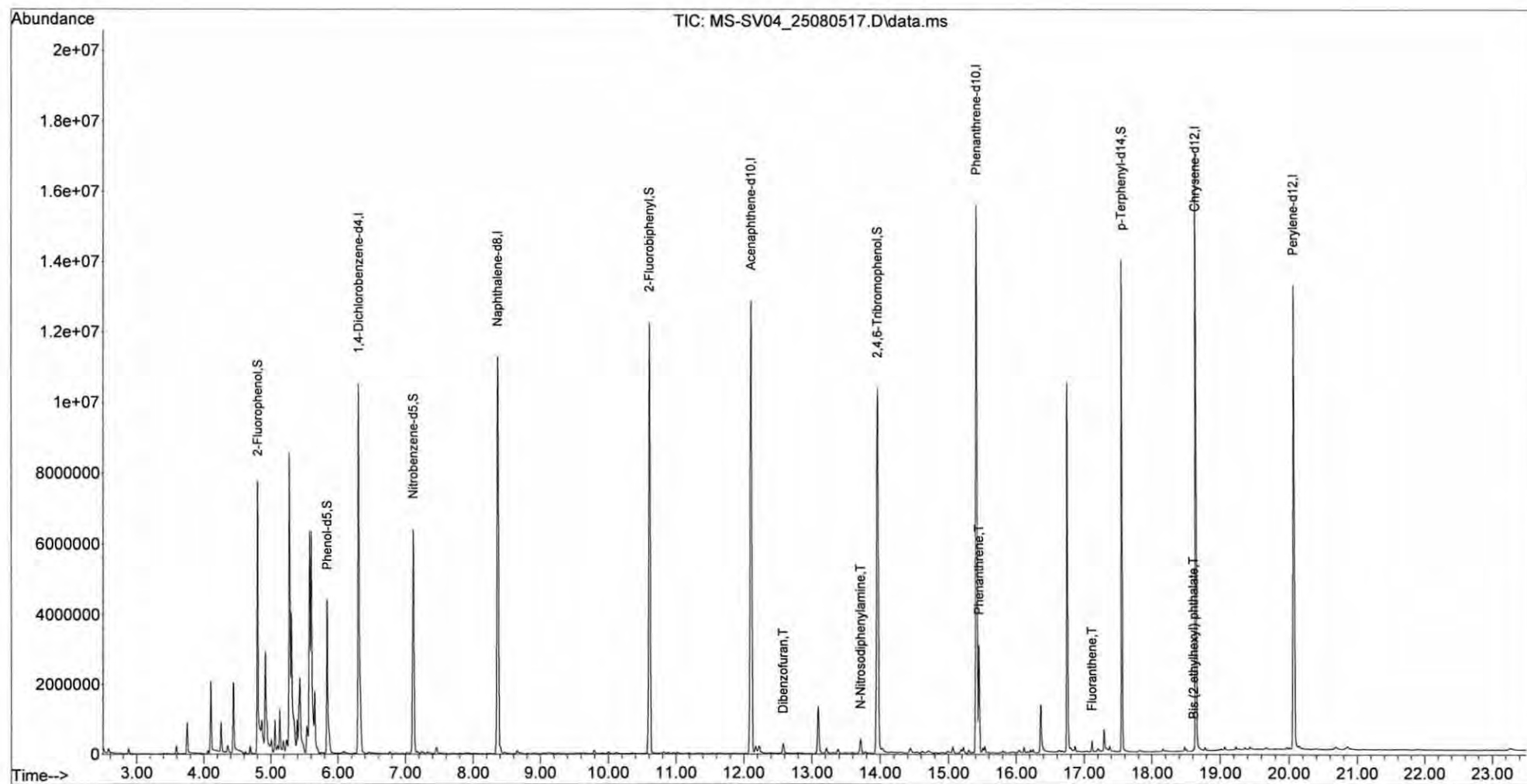
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2838119	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	9169520	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.112	164	5556409	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.419	188	8565718	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6384607	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	6861625	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3732988	40.65	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	40.65%		
5) Phenol-d5	5.840	99	2676029	27.02	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	27.02%		
19) Nitrobenzene-d5	7.116	82	3235639	39.65	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	79.30%		
39) 2-Fluorobiphenyl	10.607	172	6783132	34.13	ug/ml	-0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	68.26%		
64) 2,4,6-Tribromophenol	13.966	330	2937323	84.88	ug/ml	-0.01
Spiked Amount 100.000	Range 20 - 86		Recovery =	84.88%		
75) p-Terphenyl-d14	17.559	244	5093398	27.38	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	54.76%		
Target Compounds						
					Qvalue	
51) Dibenzofuran	12.575	168	205345	0.99	ug/ml	97
61) N-Nitrosodiphenylamine	13.714	169	182927	1.26	ug/ml	92
68) Phenanthrene	15.453	178	1489997	6.44	ug/ml	97
72) Fluoranthene	17.113	202	139987	0.58	ug/ml	97
80) Bis (2-ethylhexyl) pht...	18.612	149	20580	1.29	ug/ml#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed



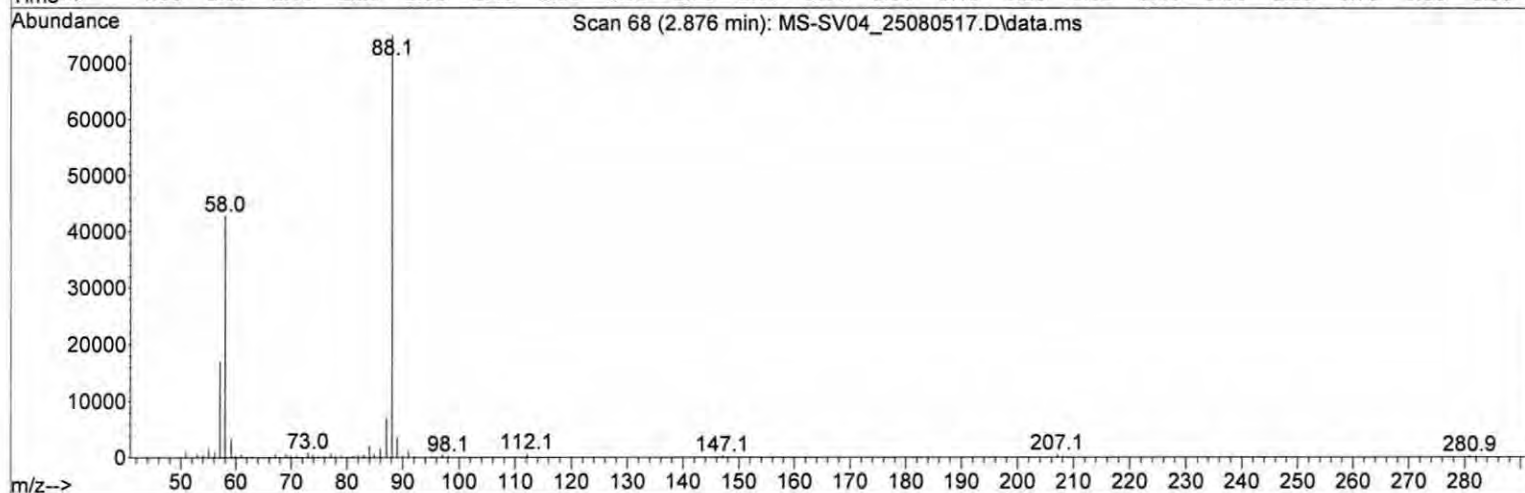
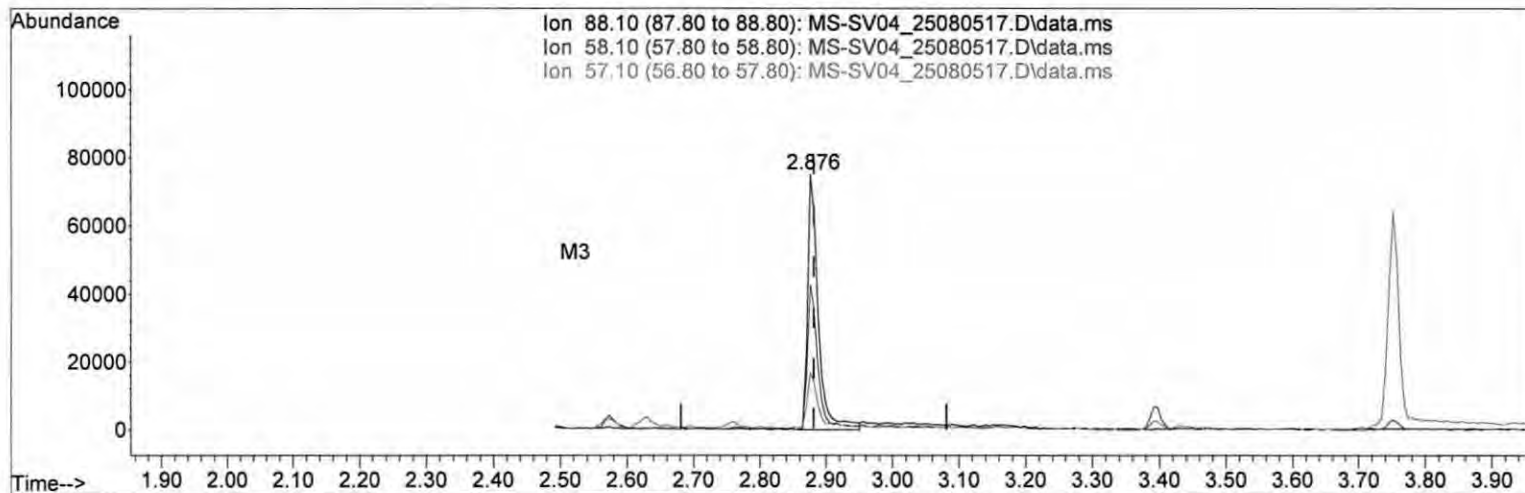
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080517.D
Acq On : 05 Aug 2025 08:47 pm
Operator : BMS
Sample : 25H0035-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 09:24:12 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080517.D
Acq On : 05 Aug 2025 08:47 pm
Operator : BMS
Sample : 25H0035-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 10:43:28 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



(2) 1,4-Dioxane (T)

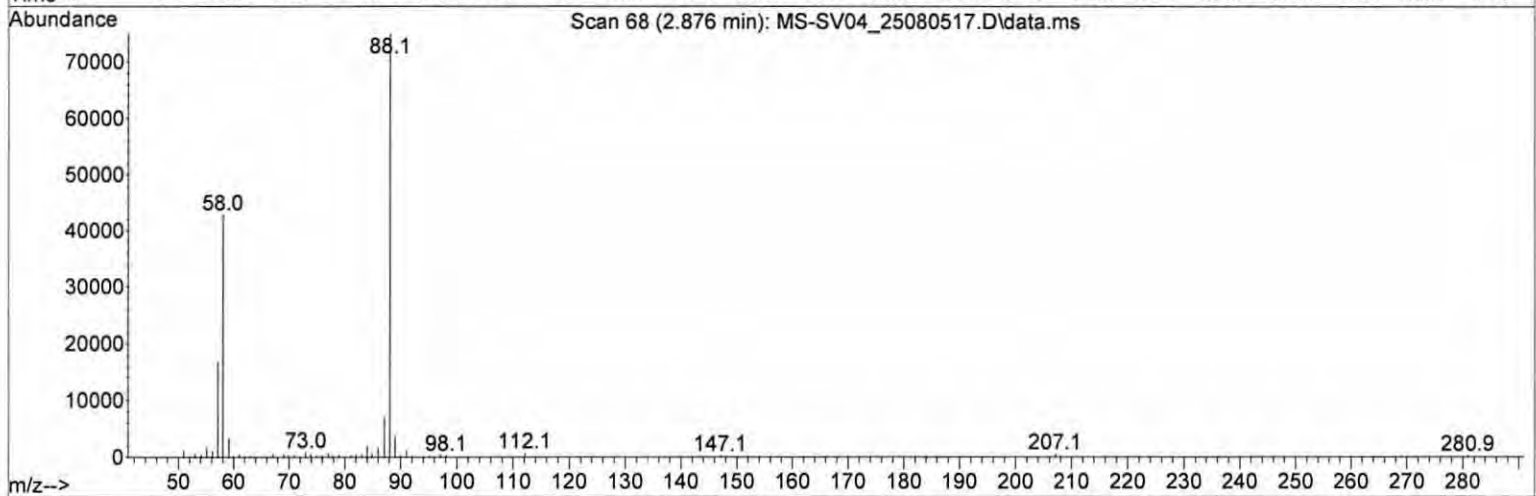
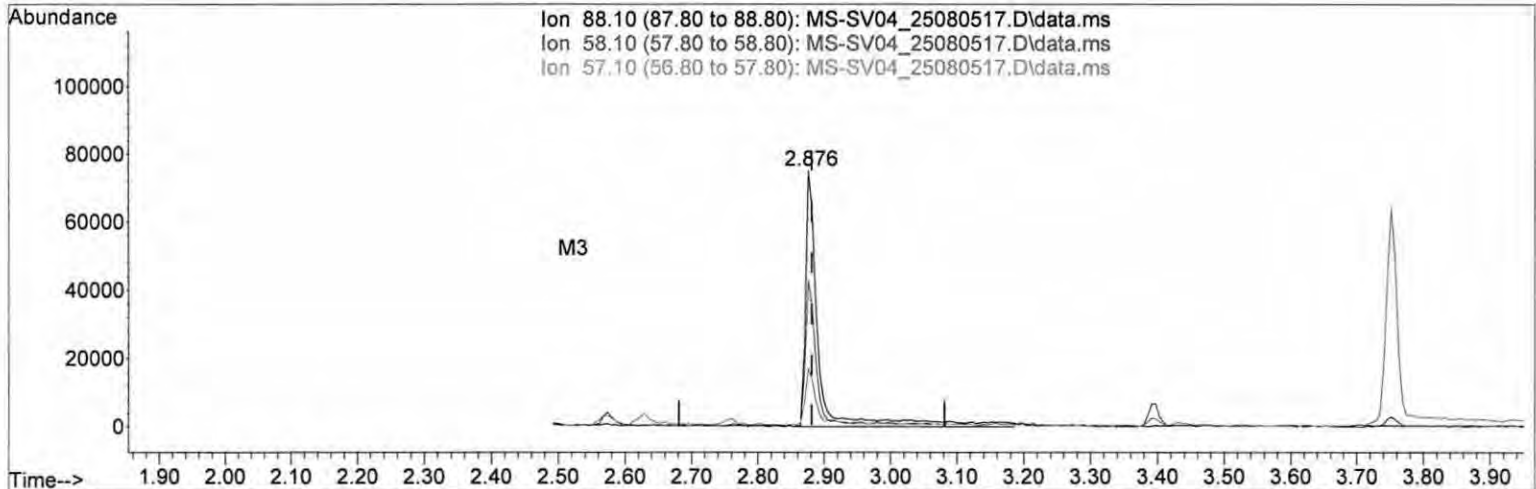
2.876min (-0.005) 2.30 ug/ml

response 83395

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	55.41#
57.10	37.00	20.37#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080517.D
Acq On : 05 Aug 2025 08:47 pm
Operator : BMS
Sample : 25H0035-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 10:43:28 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080517.D\data.ms

(2) 1,4-Dioxane (T)

2.876min (-0.005) 2.89 ug/ml m

response 104787

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	44.10#
57.10	37.00	16.21#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080518.D
 Acq On : 05 Aug 2025 09:15 pm
 Operator : BMS
 Sample : 25H0035-04
 Misc : 34 HLY 08/06/25
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 09:24:14 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

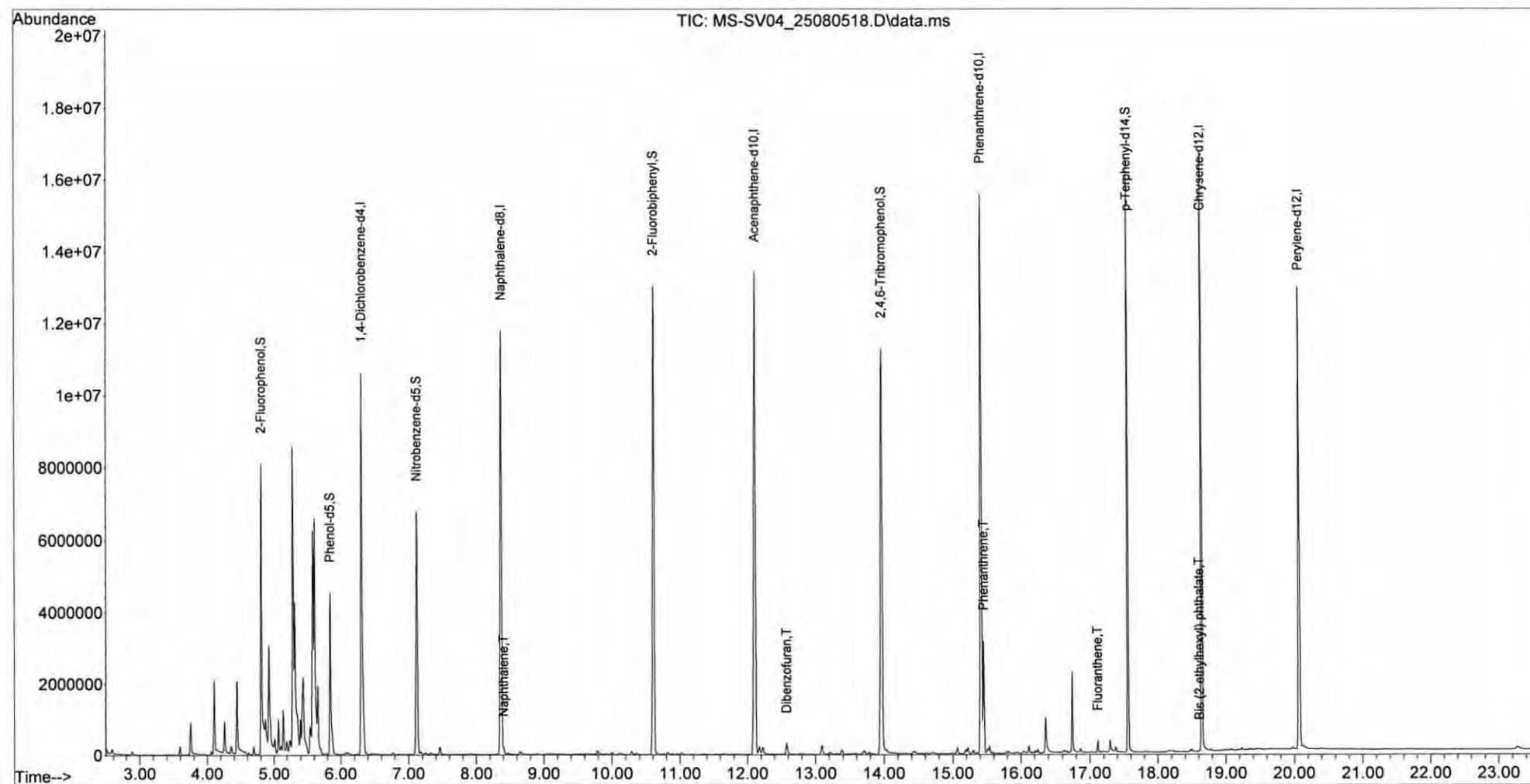
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2908130	40.00	ug/ml	0.00
21) Naphthalene-d8	8.369	136	9278727	40.00	ug/ml	0.00
36) Acenaphthene-d10	12.112	164	5658596	40.00	ug/ml	-0.01
63) Phenanthrene-d10	15.419	188	8652194	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6217816	40.00	ug/ml	-0.01
81) Perylene-d12	20.077	264	6750660	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3790911	40.29	ug/ml	0.00
Spiked Amount 100.000	Range 10	- 52	Recovery	=	40.29%	
5) Phenol-d5	5.840	99	2681624	26.43	ug/ml	0.00
Spiked Amount 100.000	Range 5	- 33	Recovery	=	26.43%	
19) Nitrobenzene-d5	7.116	82	3514113	42.03	ug/ml	-0.01
Spiked Amount 50.000	Range 10	- 99	Recovery	=	84.06%	
39) 2-Fluorobiphenyl	10.607	172	7402408	36.57	ug/ml	-0.01
Spiked Amount 50.000	Range 23	- 87	Recovery	=	73.14%	
64) 2,4,6-Tribromophenol	13.966	330	3212268	91.71	ug/ml	-0.01
Spiked Amount 100.000	Range 20	- 86	Recovery	=	91.71%#	
75) p-Terphenyl-d14	17.559	244	5990722	33.06	ug/ml	0.00
Spiked Amount 50.000	Range 27	- 133	Recovery	=	66.12%	
Target Compounds						
					Qvalue	
29) Naphthalene	8.404	128	127017	0.52	ug/ml	99
51) Dibenzofuran	12.575	168	216244	1.02	ug/ml	98
68) Phenanthrene	15.453	178	1504959	6.44	ug/ml	97
72) Fluoranthene	17.113	202	141960	0.58	ug/ml	96
80) Bis (2-ethylhexyl) pht...	18.612	149	11659	1.23	ug/ml#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



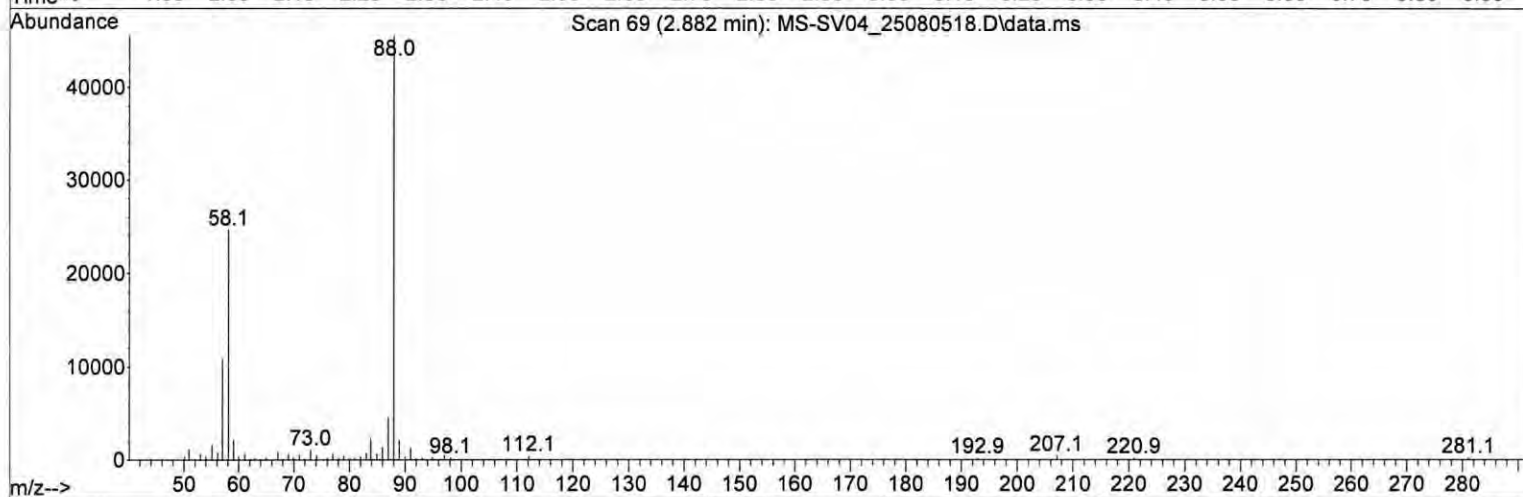
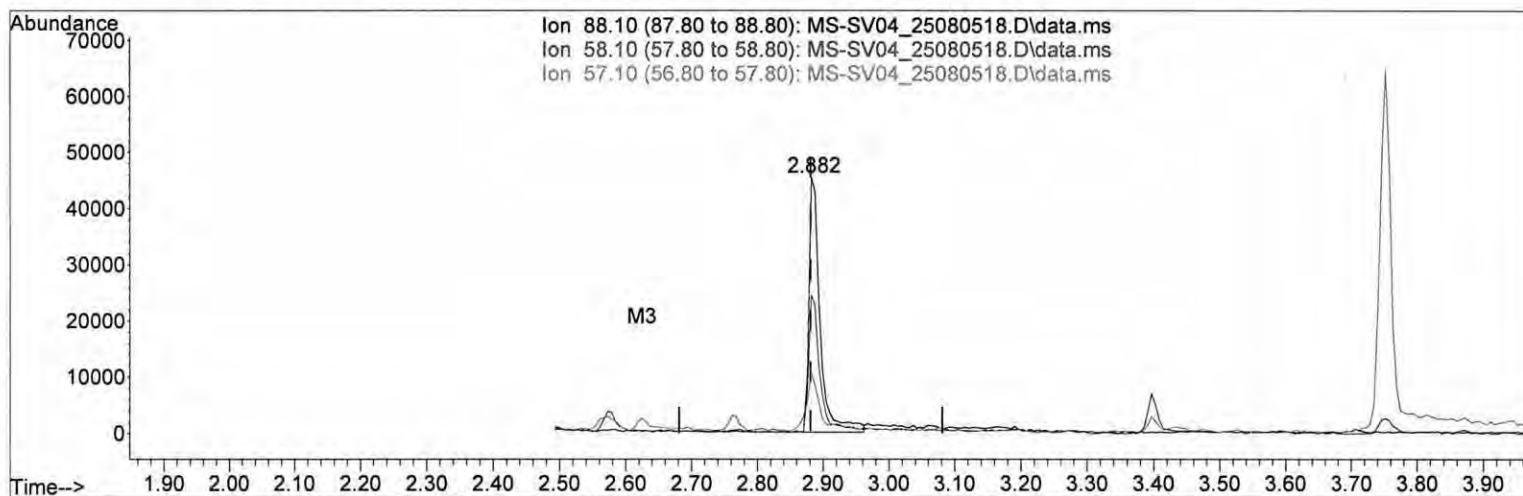
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080518.D
Acq On : 05 Aug 2025 09:15 pm
Operator : BMS
Sample : 25H0035-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 09:24:14 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080518.D
Acq On : 05 Aug 2025 09:15 pm
Operator : BMS
Sample : 25H0035-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 10:43:30 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatiles Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080518.D\data.ms

(2) 1,4-Dioxane (T)

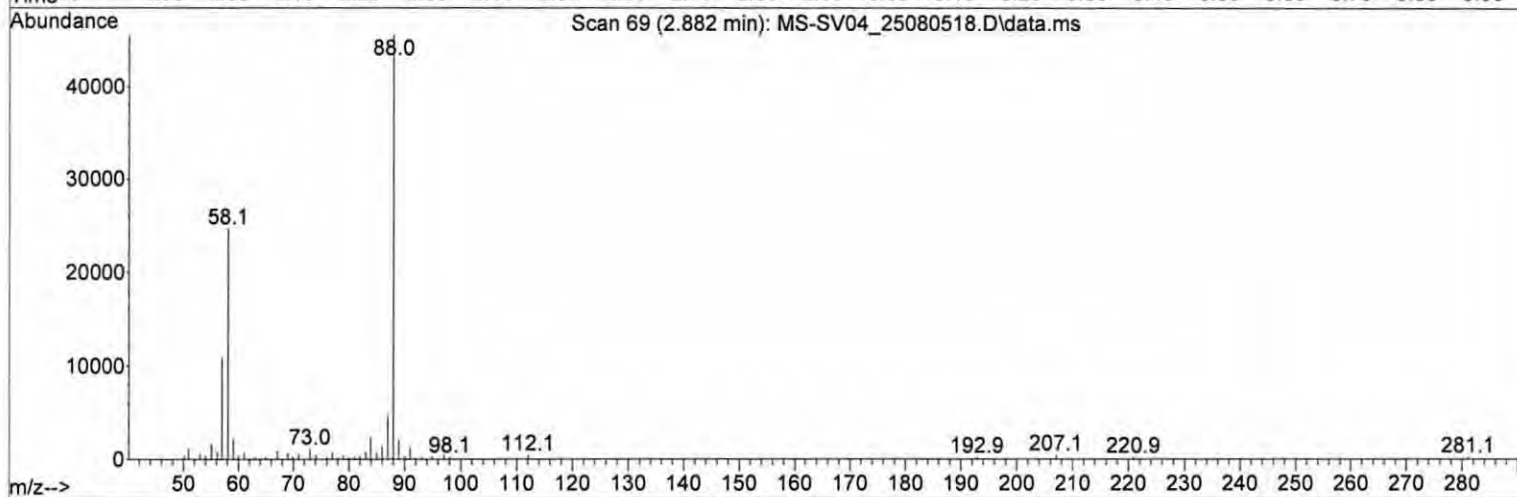
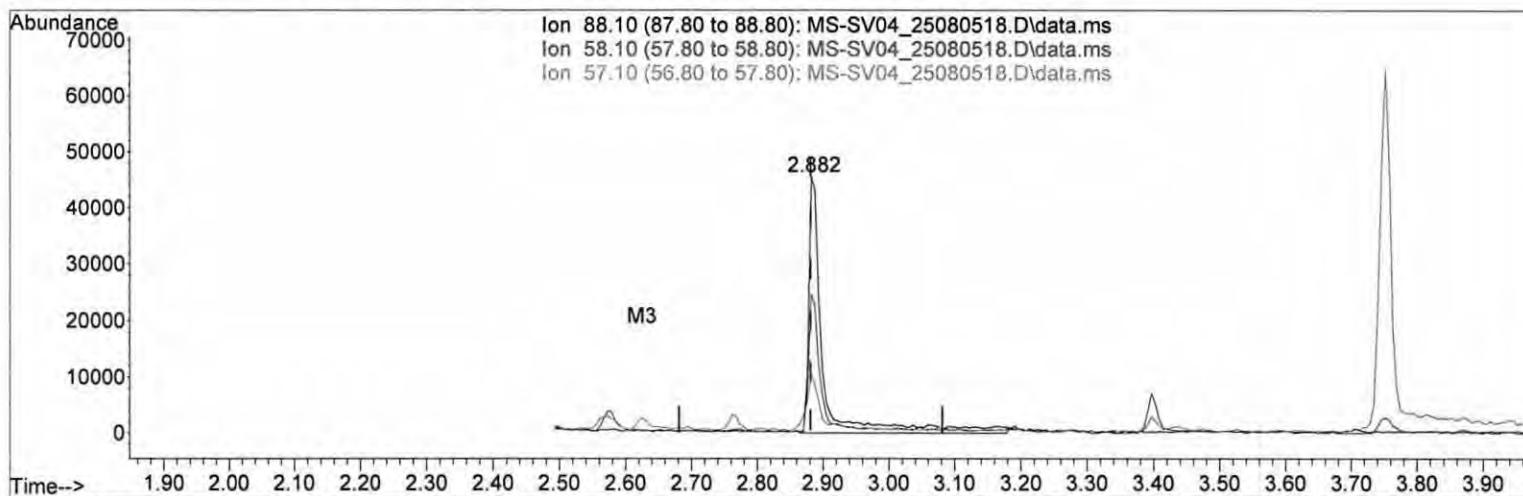
2.882min (+ 0.000) 1.45 ug/ml

response 53801

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	54.47#
57.10	37.00	24.13#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080518.D
Acq On : 05 Aug 2025 09:15 pm
Operator : BMS
Sample : 25H0035-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 10:43:30 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080518.D\data.ms

(2) 1,4-Dioxane (T)

2.882min (+ 0.000) 1.90 ug/ml m

response 70438

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	41.60#
57.10	37.00	18.43#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080521.D
 Acq On : 05 Aug 2025 10:42 pm
 Operator : BMS
 Sample : 25H0035-05
 Misc : 34 HLY 08/06/25
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 09:24:20 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 QLast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2745691	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	8846936	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.106	164	5339877	40.00	ug/ml	-0.02
63) Phenanthrene-d10	15.419	188	8128300	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	5830933	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	6174337	40.00	ug/ml	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.805	112	3517786	39.60	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 52		Recovery =	39.60%		
5) Phenol-d5	5.840	99	2514333	26.24	ug/ml	0.00
Spiked Amount 100.000	Range 5 - 33		Recovery =	26.24%		
19) Nitrobenzene-d5	7.116	82	3016784	38.22	ug/ml	-0.01
Spiked Amount 50.000	Range 10 - 99		Recovery =	76.44%		
39) 2-Fluorobiphenyl	10.607	172	6329592	33.14	ug/ml	-0.01
Spiked Amount 50.000	Range 23 - 87		Recovery =	66.28%		
64) 2,4,6-Tribromophenol	13.960	330	2673331	81.50	ug/ml	-0.02
Spiked Amount 100.000	Range 20 - 86		Recovery =	81.50%		
75) p-Terphenyl-d14	17.559	244	5566066	32.76	ug/ml	0.00
Spiked Amount 50.000	Range 27 - 133		Recovery =	65.52%		

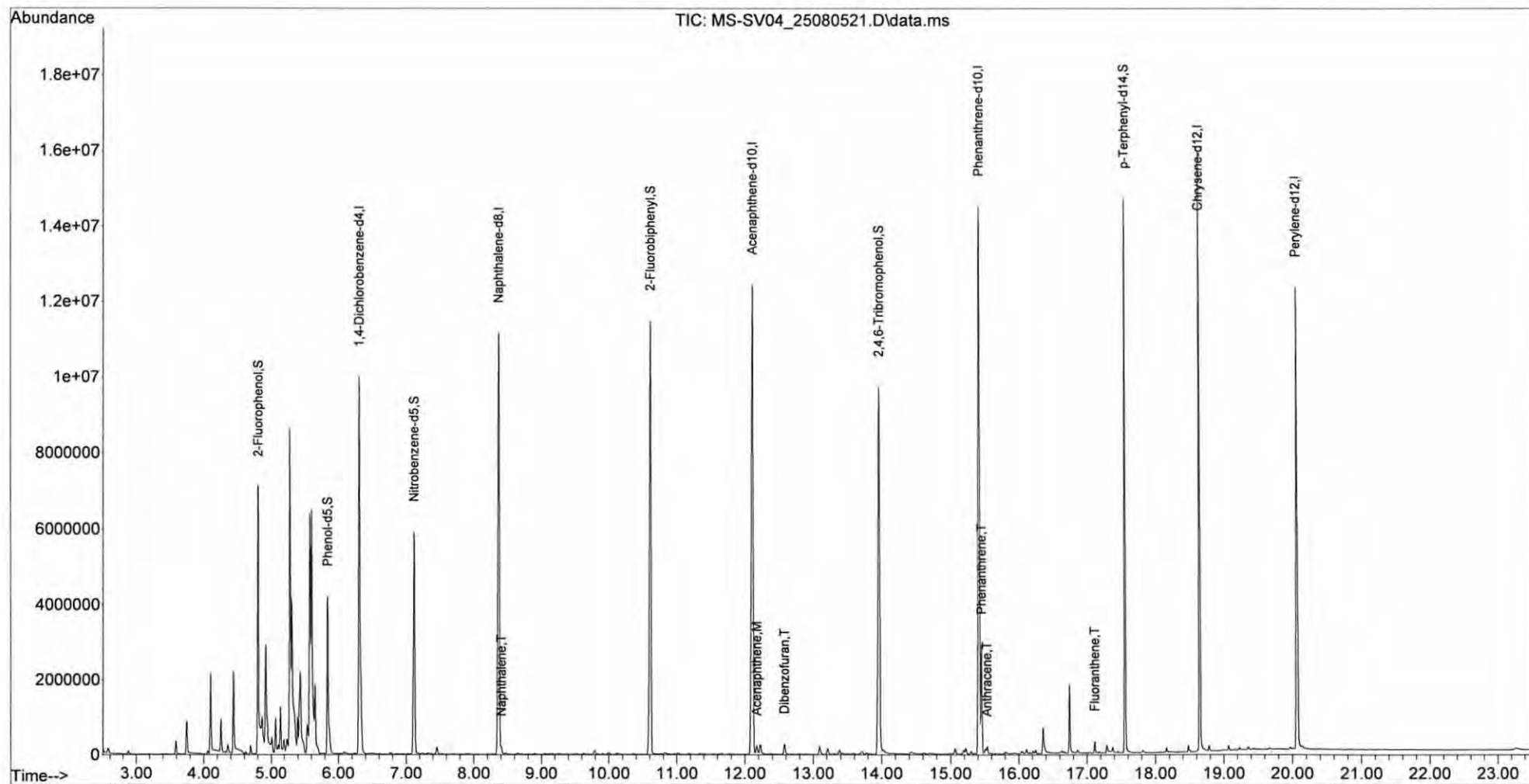
Target Compounds

						Qvalue
29) Naphthalene	8.404	128	123161	0.53	ug/ml	99
49) Acenaphthene	12.175	154	74807	0.53	ug/ml	98
51) Dibenzofuran	12.575	168	204470	1.03	ug/ml	96
68) Phenanthrene	15.453	178	1424168	6.49	ug/ml	97
69) Anthracene	15.534	178	110015	0.51	ug/ml#	91
72) Fluoranthene	17.113	202	141461	0.62	ug/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

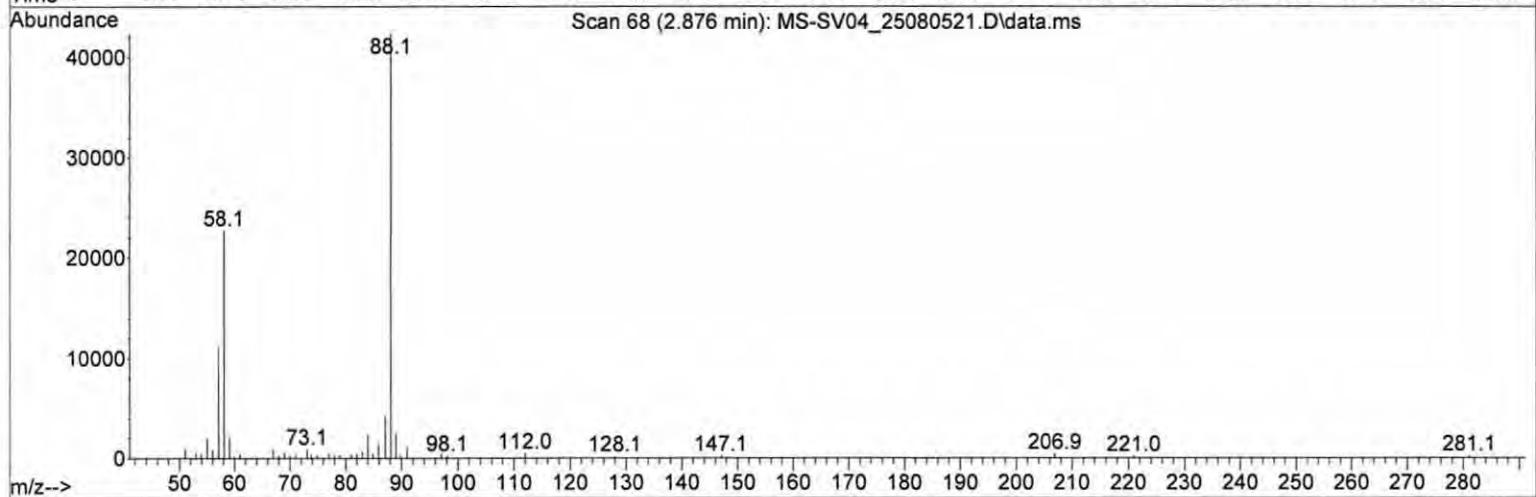
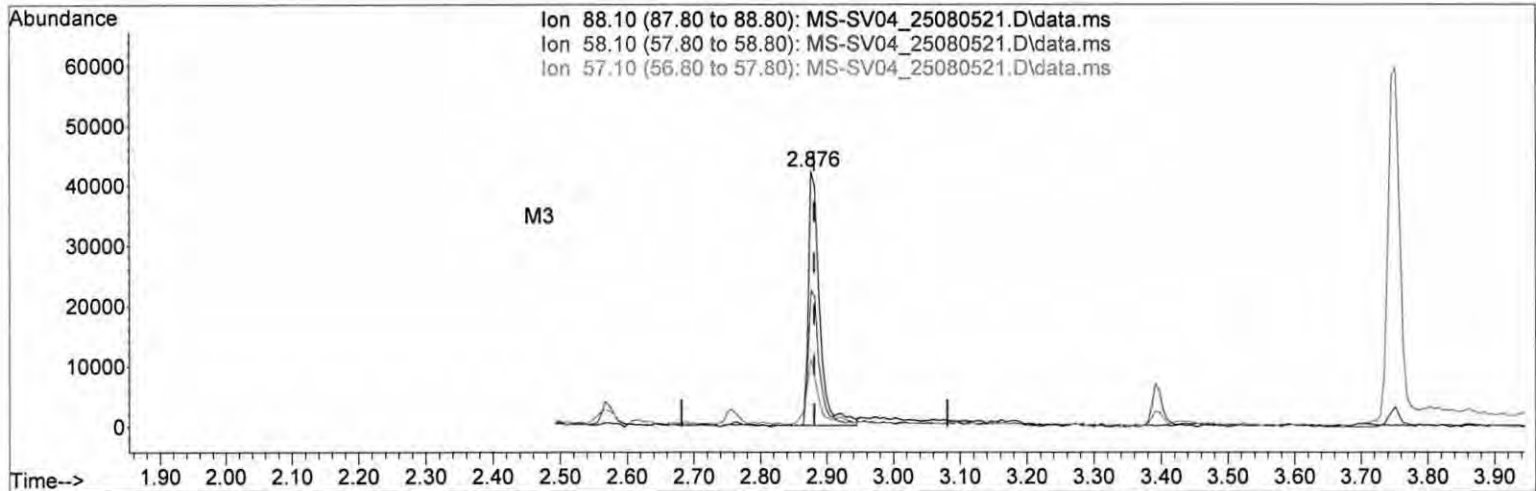
Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080521.D
Acq On : 05 Aug 2025 10:42 pm
Operator : BMS
Sample : 25H0035-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 09:24:20 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatiles Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080521.D
Acq On : 05 Aug 2025 10:42 pm
Operator : BMS
Sample : 25H0035-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 10:43:36 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080521.D\data.ms

(2) 1,4-Dioxane (T)

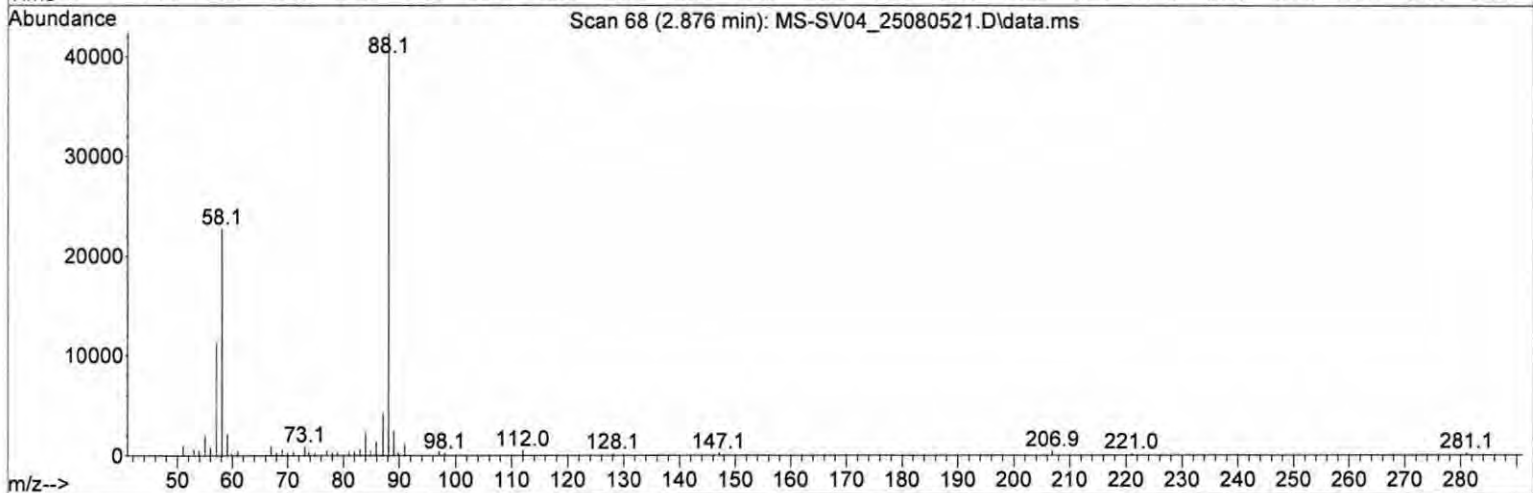
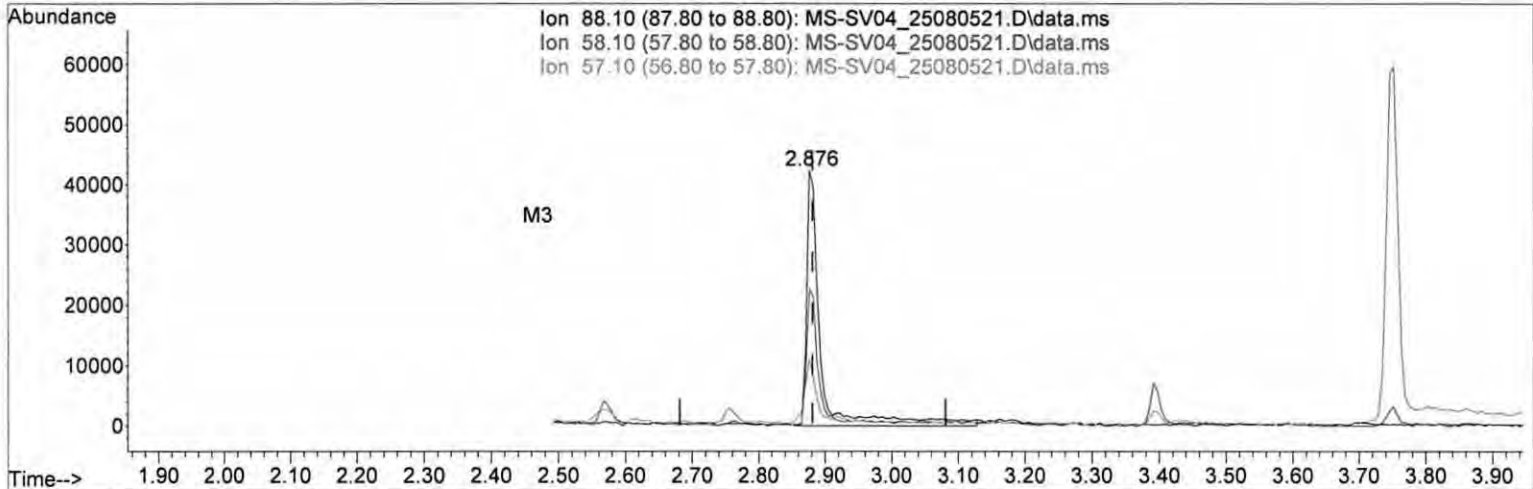
2.876min (-0.005) 1.41 ug/ml

response 49301

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	52.22#
57.10	37.00	25.57#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080521.D
Acq On : 05 Aug 2025 10:42 pm
Operator : BMS
Sample : 25H0035-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 10:43:36 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718AP.M
Quant Title : Semivolatile Appendix IX Compounds Calibration
QLast Update : Mon Aug 04 14:49:07 2025
Response via : Initial Calibration



TIC: MS-SV04_25080521.D\data.ms

(2) 1,4-Dioxane (T)

2.876min (-0.005) 1.81 ug/ml m

response 63474

Ion	Exp%	Act%
88.10	100.00	100.00
58.10	108.00	40.56#
57.10	37.00	19.86#
0.00	0.00	0.00

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
 Data File : MS-SV04_25080522.D
 Acq On : 05 Aug 2025 11:10 pm
 Operator : BMS
 Sample : 25H0035-06
 Misc : 34 HLC 08/06/25
 ALS Vial : 21 Sample Multiplier: 1

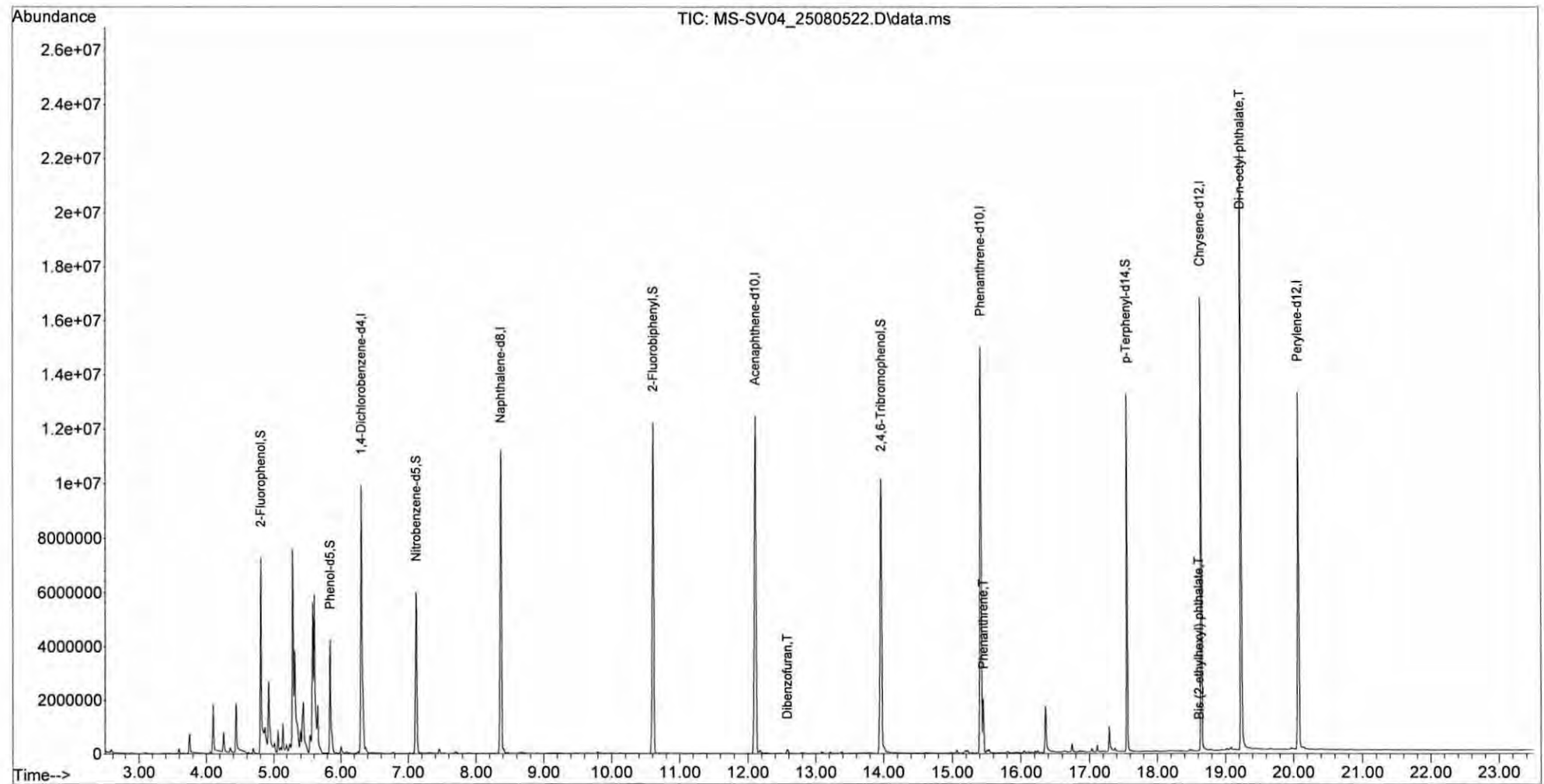
Quant Time: Aug 06 09:24:22 2025
 Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
 Quant Title : Semivolatile Primary Quant method (8270 and 625)
 Qlast Update : Mon Aug 04 14:17:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.304	152	2796747	40.00	ug/ml	0.00
21) Naphthalene-d8	8.364	136	8888874	40.00	ug/ml	-0.01
36) Acenaphthene-d10	12.106	164	5416892	40.00	ug/ml	-0.02
63) Phenanthrene-d10	15.419	188	8337409	40.00	ug/ml	# 0.00
73) Chrysene-d12	18.646	240	6367431	40.00	ug/ml	-0.01
81) Perylene-d12	20.071	264	6764329	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.805	112	3505794	38.74	ug/ml	0.00
Spiked Amount 100.000	Range 10	- 52	Recovery	=	38.74%	
5) Phenol-d5	5.840	99	2495101	25.57	ug/ml	0.00
Spiked Amount 100.000	Range 5	- 33	Recovery	=	25.57%	
19) Nitrobenzene-d5	7.116	82	3103396	38.60	ug/ml	-0.01
Spiked Amount 50.000	Range 10	- 99	Recovery	=	77.20%	
39) 2-Fluorobiphenyl	10.607	172	6747511	34.83	ug/ml	-0.01
Spiked Amount 50.000	Range 23	- 87	Recovery	=	69.66%	
64) 2,4,6-Tribromophenol	13.966	330	2859870	84.90	ug/ml	-0.01
Spiked Amount 100.000	Range 20	- 86	Recovery	=	84.90%	
75) p-Terphenyl-d14	17.553	244	5044324	27.19	ug/ml	0.00
Spiked Amount 50.000	Range 27	- 133	Recovery	=	54.38%	
Target Compounds						
51) Dibenzofuran	12.575	168	113605	0.56	ug/ml	97
68) Phenanthrene	15.453	178	1020913	4.54	ug/ml	97
80) Bis (2-ethylhexyl) pht...	18.612	149	15487	1.26	ug/ml#	94
82) Di-n-octyl phthalate	19.236	149	2982244	15.41	ug/ml#	24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\2508\250805\
Data File : MS-SV04_25080522.D
Acq On : 05 Aug 2025 11:10 pm
Operator : BMS
Sample : 25H0035-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 06 09:24:22 2025
Quant Method : C:\GCMS\1\methods\MS-SV04_250718SV.M
Quant Title : Semivolatile Primary Quant method (8270 and 625)
QLast Update : Mon Aug 04 14:17:43 2025
Response via : Initial Calibration





1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 25H0034

Client Name: Draper Aden Associates - Blacksburg
2200 South Main Street Suite A
Blacksburg, VA 24060

Date Received: July 31, 2025 10:00
Date Issued: August 7, 2025 12:09
Project Number: 667639
Purchase Order:

Submitted To: Janet Frazier

Client Site I.D.: HWMU 16

Enclosed are the results of analyses for samples received by the laboratory on 07/31/2025 10:00. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Keith Sprouse
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Enthalpy Analytical.

Analysis Detects Report

Client Name:

Date Issued:

Client Site ID:

Submitted To:

Laboratory Sample ID:**Client Sample ID:**

Parameter	Samp ID	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
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There are no reportable results for target analytes in this report.

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the " Certificate of Analysis".

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16C1	25H0034-01	Ground Water	07/30/2025 14:20	07/31/2025 10:00
16MW8	25H0034-02	Ground Water	07/29/2025 11:20	07/31/2025 10:00
16MW9	25H0034-03	Ground Water	07/30/2025 13:15	07/31/2025 10:00
16WC1A	25H0034-04	Ground Water	07/30/2025 11:05	07/31/2025 10:00
16WDUP	25H0034-05	Ground Water	07/30/2025 09:25	07/31/2025 10:00
16WC1B	25H0034-06	Ground Water	07/30/2025 09:45	07/31/2025 10:00

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16C1

Laboratory Sample ID: 25H0034-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	01	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 19:50	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	01	86.1 %	5-136	08/05/2025 09:00	08/05/2025 19:50							
Surr: 2-Fluorobiphenyl (Surr)	01	71.0 %	9-117	08/05/2025 09:00	08/05/2025 19:50							
Surr: 2-Fluorophenol (Surr)	01	42.8 %	5-60	08/05/2025 09:00	08/05/2025 19:50							
Surr: Nitrobenzene-d5 (Surr)	01	81.6 %	5-151	08/05/2025 09:00	08/05/2025 19:50							
Surr: Phenol-d5 (Surr)	01	28.4 %	5-60	08/05/2025 09:00	08/05/2025 19:50							
Surr: p-Terphenyl-d14 (Surr)	01	63.1 %	5-141	08/05/2025 09:00	08/05/2025 19:50							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16MW8

Laboratory Sample ID: 25H0034-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	02	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 20:18	BLOD		0.93	10.0	1	ug/L	HLY
Surr: 2,4,6-Tribromophenol (Surr)	02	76.8 %	5-136	08/05/2025 09:00	08/05/2025 20:18							
Surr: 2-Fluorobiphenyl (Surr)	02	64.6 %	9-117	08/05/2025 09:00	08/05/2025 20:18							
Surr: 2-Fluorophenol (Surr)	02	37.0 %	5-60	08/05/2025 09:00	08/05/2025 20:18							
Surr: Nitrobenzene-d5 (Surr)	02	77.3 %	5-151	08/05/2025 09:00	08/05/2025 20:18							
Surr: Phenol-d5 (Surr)	02	24.0 %	5-60	08/05/2025 09:00	08/05/2025 20:18							
Surr: p-Terphenyl-d14 (Surr)	02	54.6 %	5-141	08/05/2025 09:00	08/05/2025 20:18							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16MW9

Laboratory Sample ID: 25H0034-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	03	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 20:47	BLOD		0.93	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	03	84.9 %	5-136	08/05/2025 09:00	08/05/2025 20:47							
Surr: 2-Fluorobiphenyl (Surr)	03	68.3 %	9-117	08/05/2025 09:00	08/05/2025 20:47							
Surr: 2-Fluorophenol (Surr)	03	40.7 %	5-60	08/05/2025 09:00	08/05/2025 20:47							
Surr: Nitrobenzene-d5 (Surr)	03	79.3 %	5-151	08/05/2025 09:00	08/05/2025 20:47							
Surr: Phenol-d5 (Surr)	03	27.0 %	5-60	08/05/2025 09:00	08/05/2025 20:47							
Surr: p-Terphenyl-d14 (Surr)	03	54.8 %	5-141	08/05/2025 09:00	08/05/2025 20:47							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16WC1A

Laboratory Sample ID: 25H0034-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	04	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 21:15	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	04	91.7 %	5-136	08/05/2025 09:00	08/05/2025 21:15							
Surr: 2-Fluorobiphenyl (Surr)	04	73.1 %	9-117	08/05/2025 09:00	08/05/2025 21:15							
Surr: 2-Fluorophenol (Surr)	04	40.3 %	5-60	08/05/2025 09:00	08/05/2025 21:15							
Surr: Nitrobenzene-d5 (Surr)	04	84.1 %	5-151	08/05/2025 09:00	08/05/2025 21:15							
Surr: Phenol-d5 (Surr)	04	26.4 %	5-60	08/05/2025 09:00	08/05/2025 21:15							
Surr: p-Terphenyl-d14 (Surr)	04	66.1 %	5-141	08/05/2025 09:00	08/05/2025 21:15							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16WDUP

Laboratory Sample ID: 25H0034-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatile Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	05	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 22:42	BLOD		0.95	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	05	81.5 %	5-136	08/05/2025 09:00	08/05/2025 22:42							
Surr: 2-Fluorobiphenyl (Surr)	05	66.3 %	9-117	08/05/2025 09:00	08/05/2025 22:42							
Surr: 2-Fluorophenol (Surr)	05	39.6 %	5-60	08/05/2025 09:00	08/05/2025 22:42							
Surr: Nitrobenzene-d5 (Surr)	05	76.4 %	5-151	08/05/2025 09:00	08/05/2025 22:42							
Surr: Phenol-d5 (Surr)	05	26.2 %	5-60	08/05/2025 09:00	08/05/2025 22:42							
Surr: p-Terphenyl-d14 (Surr)	05	65.5 %	5-141	08/05/2025 09:00	08/05/2025 22:42							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg

Date Issued: 8/7/2025 12:09:14PM

Client Site I.D.: HWMU 16

Submitted To: Janet Frazier

Client Sample ID: 16WC1B

Laboratory Sample ID: 25H0034-06

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	LOD	LOQ	DF	Units	Analyst
Semivolatle Organic Compounds by GCMS												
Pentachloronitrobenzene (quintozene)	06	82-68-8	SW8270E	08/05/2025 09:00	08/05/2025 23:10	BLOD		0.98	10.0	1	ug/L	HLV
Surr: 2,4,6-Tribromophenol (Surr)	06	84.9 %	5-136	08/05/2025 09:00	08/05/2025 23:10							
Surr: 2-Fluorobiphenyl (Surr)	06	69.7 %	9-117	08/05/2025 09:00	08/05/2025 23:10							
Surr: 2-Fluorophenol (Surr)	06	38.7 %	5-60	08/05/2025 09:00	08/05/2025 23:10							
Surr: Nitrobenzene-d5 (Surr)	06	77.2 %	5-151	08/05/2025 09:00	08/05/2025 23:10							
Surr: Phenol-d5 (Surr)	06	25.6 %	5-60	08/05/2025 09:00	08/05/2025 23:10							
Surr: p-Terphenyl-d14 (Surr)	06	54.4 %	5-141	08/05/2025 09:00	08/05/2025 23:10							

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
Blank (BIH0165-BLK1)				Prepared & Analyzed: 08/05/2025						
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	72.9		ug/L	100		72.9	5-136			
Surr: 2-Fluorobiphenyl (Surr)	30.2		ug/L	50.0		60.3	9-117			
Surr: 2-Fluorophenol (Surr)	39.9		ug/L	100		39.9	5-60			
Surr: Nitrobenzene-d5 (Surr)	35.4		ug/L	50.0		70.9	5-151			
Surr: Phenol-d5 (Surr)	28.4		ug/L	100		28.4	5-60			
Surr: p-Terphenyl-d14 (Surr)	33.0		ug/L	50.0		66.1	5-141			
LCS (BIH0165-BS1)				Prepared & Analyzed: 08/05/2025						
1,2,4-Trichlorobenzene	30.4	10.0	ug/L	50.0		60.8	57-130			
1,2-Dichlorobenzene	30.5	10.0	ug/L	50.0		61.0	22-115			
1,3-Dichlorobenzene	29.4	10.0	ug/L	50.0		58.8	22-112			
1,4-Dichlorobenzene	28.9	10.0	ug/L	50.0		57.8	13-112			
2,4,6-Trichlorophenol	36.3	10.0	ug/L	50.0		72.5	52-129			
2,4-Dichlorophenol	34.7	10.0	ug/L	50.0		69.4	53-122			
2,4-Dimethylphenol	31.9	5.00	ug/L	50.0		63.9	42-120			
2,4-Dinitrophenol	47.8	50.0	ug/L	50.0		95.6	48-127			
2,4-Dinitrotoluene	34.9	10.0	ug/L	50.0		69.9	10-173			
2,6-Dinitrotoluene	34.1	10.0	ug/L	50.0		68.2	68-137			
2-Chloronaphthalene	30.1	10.0	ug/L	50.0		60.1	65-120			L
2-Chlorophenol	30.8	10.0	ug/L	50.0		61.6	36-120			
2-Nitrophenol	36.9	10.0	ug/L	50.0		73.8	45-167			
3,3'-Dichlorobenzidine	36.4	10.0	ug/L	50.0		72.8	10-213			
4,6-Dinitro-2-methylphenol	46.4	50.0	ug/L	50.0		92.7	53-130			
4-Bromophenyl phenyl ether	34.5	10.0	ug/L	50.0		69.0	65-120			

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
LCS (BIH0165-BS1)				Prepared & Analyzed: 08/05/2025						
4-Chlorophenyl phenyl ether	31.5	10.0	ug/L	50.0		62.9	38-145			
4-Nitrophenol	15.7	50.0	ug/L	50.0		31.4	13-129			
Acenaphthene	30.5	10.0	ug/L	50.0		61.1	60-132			
Acenaphthylene	29.9	10.0	ug/L	50.0		59.8	54-126			
Acetophenone	27.8	20.0	ug/L	50.0		55.6	0-200			
Anthracene	29.6	10.0	ug/L	50.0		59.2	43-120			
Benzo (a) anthracene	32.6	10.0	ug/L	50.0		65.3	42-133			
Benzo (a) pyrene	32.3	10.0	ug/L	50.0		64.7	32-148			
Benzo (b) fluoranthene	35.9	10.0	ug/L	50.0		71.9	42-140			
Benzo (g,h,i) perylene	30.0	10.0	ug/L	50.0		60.0	10-195			
Benzo (k) fluoranthene	28.2	10.0	ug/L	50.0		56.4	25-146			
bis (2-Chloroethoxy) methane	32.0	10.0	ug/L	50.0		64.0	49-165			
bis (2-Chloroethyl) ether	30.0	10.0	ug/L	50.0		59.9	43-126			
2,2'-Oxybis (1-chloropropane)	32.9	10.0	ug/L	50.0		65.8	63-139			
bis (2-Ethylhexyl) phthalate	36.0	10.0	ug/L	50.0		72.0	29-137			
Butyl benzyl phthalate	37.4	10.0	ug/L	50.0		74.8	10-140			
Chrysene	30.5	10.0	ug/L	50.0		60.9	44-140			
Dibenz (a,h) anthracene	31.8	10.0	ug/L	50.0		63.7	10-200			
Diethyl phthalate	33.0	10.0	ug/L	50.0		66.0	10-120			
Dimethyl phthalate	32.6	10.0	ug/L	50.0		65.2	10-120			
Di-n-butyl phthalate	32.4	10.0	ug/L	50.0		64.9	10-120			
Di-n-octyl phthalate	33.1	10.0	ug/L	50.0		66.3	19-132			
Fluoranthene	29.3	10.0	ug/L	50.0		58.7	43-121			
Fluorene	30.4	10.0	ug/L	50.0		60.8	70-120			L
Hexachlorobenzene	34.0	2.50	ug/L	50.0		68.1	10-142			

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BIH0165 - SW3510C/EPA600-MS

LCS (BIH0165-BS1)

Prepared & Analyzed: 08/05/2025

Hexachlorobutadiene	34.0	10.0	ug/L	50.0		68.0	38-120			
Hexachlorocyclopentadiene	31.9	10.0	ug/L	50.0		63.8	10-76			
Hexachloroethane	29.9	10.0	ug/L	50.0		59.7	55-120			
Indeno (1,2,3-cd) pyrene	29.2	10.0	ug/L	50.0		58.5	10-151			
Isophorone	28.0	10.0	ug/L	50.0		56.0	47-180			
Naphthalene	28.0	5.00	ug/L	50.0		55.9	36-120			
Nitrobenzene	31.7	10.0	ug/L	50.0		63.4	54-158			
n-Nitrosodimethylamine	22.9	10.0	ug/L	50.0		45.9	10-85			
n-Nitrosodi-n-propylamine	29.6	10.0	ug/L	50.0		59.3	14-198			
n-Nitrosodiphenylamine	26.1	10.0	ug/L	50.0		52.2	12-97			
p-Chloro-m-cresol	34.1	10.0	ug/L	50.0		68.2	10-142			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L				0-200			
Pentachlorophenol	35.2	20.0	ug/L	50.0		70.3	38-152			
Phenanthrene	32.4	10.0	ug/L	50.0		64.9	65-120			L
Phenol	13.2	10.0	ug/L	50.5		26.2	17-120			
Pyrene	29.5	10.0	ug/L	50.0		59.0	70-120			L
Pyridine	23.2	10.0	ug/L	50.0		46.5	10-103			
Surr: 2,4,6-Tribromophenol (Surr)	70.3		ug/L	100		70.3	5-136			
Surr: 2-Fluorobiphenyl (Surr)	28.2		ug/L	50.0		56.4	9-117			
Surr: 2-Fluorophenol (Surr)	39.0		ug/L	100		39.0	5-60			
Surr: Nitrobenzene-d5 (Surr)	32.8		ug/L	50.0		65.6	5-151			
Surr: Phenol-d5 (Surr)	26.3		ug/L	100		26.3	5-60			
Surr: p-Terphenyl-d14 (Surr)	31.4		ug/L	50.0		62.8	5-141			

LCS (BIH0165-BS2)

Prepared & Analyzed: 08/05/2025

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIH0165 - SW3510C/EPA600-MS										
LCS (BIH0165-BS2) Prepared & Analyzed: 08/05/2025										
2-Chloronaphthalene	39.7	10.0	ug/L				65-120			
Acetophenone	41.0	20.0	ug/L	50.0		82.0	0-200			
Pentachloronitrobenzene (quintozene)	45.2	10.0	ug/L	50.0		90.3	0-200			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	<i>92.0</i>		ug/L	<i>100</i>		<i>92.0</i>	<i>5-136</i>			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	<i>38.0</i>		ug/L	<i>50.0</i>		<i>75.9</i>	<i>9-117</i>			
<i>Surr: 2-Fluorophenol (Surr)</i>	<i>47.3</i>		ug/L	<i>100</i>		<i>47.3</i>	<i>5-60</i>			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>41.6</i>		ug/L	<i>50.0</i>		<i>83.1</i>	<i>5-151</i>			
<i>Surr: Phenol-d5 (Surr)</i>	<i>33.4</i>		ug/L	<i>100</i>		<i>33.4</i>	<i>5-60</i>			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	<i>37.6</i>		ug/L	<i>50.0</i>		<i>75.1</i>	<i>5-141</i>			
Matrix Spike (BIH0165-MS1) Source: 25H0034-04 Prepared & Analyzed: 08/05/2025										
2-Chloronaphthalene	32.8	10.0	ug/L		BLOD		60-120			
Acetophenone	35.4	20.0	ug/L	93.5	BLOD	37.9	0-200			
Pentachloronitrobenzene (quintozene)	36.6	10.0	ug/L	93.5	BLOD	39.2	0-200			
<i>Surr: 2,4,6-Tribromophenol (Surr)</i>	<i>77.2</i>		ug/L	<i>93.5</i>		<i>82.6</i>	<i>5-136</i>			
<i>Surr: 2-Fluorobiphenyl (Surr)</i>	<i>31.4</i>		ug/L	<i>46.7</i>		<i>67.1</i>	<i>9-117</i>			
<i>Surr: 2-Fluorophenol (Surr)</i>	<i>37.8</i>		ug/L	<i>93.5</i>		<i>40.5</i>	<i>5-60</i>			
<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>36.1</i>		ug/L	<i>46.7</i>		<i>77.2</i>	<i>5-151</i>			
<i>Surr: Phenol-d5 (Surr)</i>	<i>25.4</i>		ug/L	<i>93.5</i>		<i>27.2</i>	<i>5-60</i>			
<i>Surr: p-Terphenyl-d14 (Surr)</i>	<i>22.3</i>		ug/L	<i>46.7</i>		<i>47.7</i>	<i>5-141</i>			
Matrix Spike Dup (BIH0165-MSD1) Source: 25H0034-04 Prepared & Analyzed: 08/05/2025										
2-Chloronaphthalene	33.9	10.0	ug/L		BLOD		60-120	3.28	20	
Acetophenone	38.2	20.0	ug/L	93.5	BLOD	40.8	0-200	7.41	20	
Pentachloronitrobenzene (quintozene)	37.6	10.0	ug/L	93.5	BLOD	40.2	0-200	2.72	20	

Certificate of Analysis

Client Name: Draper Aden Associates - Blacksburg
Client Site I.D.: HWMU 16
Submitted To: Janet Frazier

Date Issued: 8/7/2025 12:09:14PM

Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BIH0165 - SW3510C/EPA600-MS

Matrix Spike Dup (BIH0165-MSD1) Source: 25H0034-04 Prepared & Analyzed: 08/05/2025

Surr: 2,4,6-Tribromophenol (Surr)	80.7		ug/L	93.5		86.3	5-136
Surr: 2-Fluorobiphenyl (Surr)	32.1		ug/L	46.7		68.8	9-117
Surr: 2-Fluorophenol (Surr)	40.0		ug/L	93.5		42.8	5-60
Surr: Nitrobenzene-d5 (Surr)	38.5		ug/L	46.7		82.3	5-151
Surr: Phenol-d5 (Surr)	27.0		ug/L	93.5		28.9	5-60
Surr: p-Terphenyl-d14 (Surr)	24.3		ug/L	46.7		51.9	5-141

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method:	SW3510C/EPA600-MS	
25H0034-01	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-02	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-03	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-04	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-05	1050 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
25H0034-06	1020 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329

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QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			Preparation Method:	SW3510C/EPA600-MS	
BIH0165-BLK1	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-BS1	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-BS2	1000 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-MS1	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329
BIH0165-MSD1	1070 mL / 1.00 mL	SW8270E	BIH0165	SIH0223	AG50329

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Certified Analyses included in this Report

Analyte	Certifications
<i>SW8270E in Non-Potable Water</i>	
Pentachloronitrobenzene (quintozene)	NCDEQ,VELAP,PADEP,WVDEP,TXCEQ

Code	Description	Laboratory ID	Expires
DURSC-NCDEQ	NCDEQ Durham Service Center	703	12/31/2025
DURSC-NCDHHS	NCDHHS Durham Service Center	37918	07/31/2026
MdDOE	Maryland DE Drinking Water	341	12/31/2025
NCDEQ	North Carolina DEQ	495	12/31/2025
NCDHHS	North Carolina Department of Health and Human Services	51714	07/31/2026
PADEP	NELAP-Pennsylvania Certificate #010	68-03503	10/31/2025
SCDES	South Carolina Dept of Environmental Services Certificate 93016001	93016	06/14/2026
TXCEQ	Texas Comm on Environmental Quality #TX-C25-00143	T104704576	05/31/2026
VELAP	NELAP-Virginia Certificate #13599	460021	06/14/2026
WVDEP	West Virginia DEP Cert ID: WV-C25-00105	350	11/30/2025

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Qualifiers and Definitions

J	The reported result is an estimated value.
L	LCS recovery is outside of established acceptance limits
RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection
BLOD	Below Limit of Detection
LOQ	Limit of Quantitation
DF	Dilution Factor
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY RECORD

Laboratory: Enthalpy Analytical, LLC 1941 Reymet Road, Richmond, VA 23237

Client: 0 Attn: 0 Address: 0 Phone: 0 Fax: 0 Fax: 0	Consultant: TRC Engineers Inc (formerly DAA) Attn: Janet C. Frazier Address: 2200 South Main Street Suite 1 Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax:	Sample Site: RFAAP, Radford, Virginia Location: HWMU16 Event: 3Q 2025 Annual GW Monitoring Event DAA JN: 667639 Lab JN:	Project Specific (PS) QC: YES as indicated Sample Collection for Project Complete? YES WPS: 12-237-301-01-9271-5231 Carrier: 12-237-301-01-9271-5231 Tracking Number: 12-237-301-01-9271-5231
Box 1: Matrix SW Surface Water GW Groundwater L Leachate S Soil	T Trip Blank E Equipment Blank P Product O Other	Box 2: Preservative A HCL B HNO ₃ C H ₂ SO ₄ D Na ₂ S ₂ O ₃	E NaOH F ZnAc G Other (Specify) H None
Box 3: Filtered/Unfiltered F Filtered U Unfiltered	Box 4: Sample Type G Grab C Composite	Box 5: Sample Container Type P Plastic AG Amber Glass	V VOA CG Clear Glass
Invoice			Copy to Consultant: YES Bill: CLIENT OTHER Preserved and shipped on ice: YES

GENERAL NOTES:

- Report results to detection limit, with J flags, for italicized wells.
- VELAP accreditation required. #13428 ex 6/14/26
- Email invoice to Jfrazier@trccompanies.com.
- FULL/Comprehensive Deliverable with EDD.
- Report to these Permit Specified QL and MDL below.
Pentachloronitrobenzene only QL 10 ug/l, MDL 1 ug/l.

Sample ID	Date: 2025	Time	Box 1: Matrix	Number of Bottles	Box 2: Preservative	Box 3: Filtered/Unfiltered	Box 4: Sample Type	Box 5: Sample Container Type
16C1	7/30	1420	GW	2	X			
16MW8	7/29	1120	GW	2	X			
16MW9	7/30	1315	GW	2	X			
16WC1A	7/30	1105	GW	6	X			
16WDUP	7/30	0925	GW	2	X			
16WC1B	7/30	0945	GW	2	X			

Observed Temp °C: 2.6
ICC 271
Correction Factor °C: 0.0
Sealed
Corrected Temp °C: 2.6

USE FOR QC

DA-Blacksburg 25H0034
HWMU 16

Recd: 07/31/2025 Due: 08/14/2025

v130325002

Clients Special Instructions:

Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival Received on Ice Yes No

Describe problems, if any:

Sampler Name (Print): ILEN CODDINGTON	Date: 7/29/25	#1 Relinquished by (Signature): [Signature]	Date: 7/30/25	#2 Relinquished by (Signature): UPS	Date:	Sample Storage
Sampler Name (Print): [Signature]	Date: 0700	Company: TRC	Date: 1700	Company:	Date:	Time Requested:
Sampler Name (Print): Alexa Prate	Date: 7/29/25	#1 Received by (Signature): UPS	Date:	#2 Received by (Signature): [Signature]	Date: 7-31-25 1000	30 DYS ORG/6 MTHS INORG
Sampler Name (Print): Alexa Prate	Date: 0700	Company:	Date:	Company:	Date:	

Order ID 25H10034

Analyst Performing Check: HBF

NaOH ID: _____	HNO ₃ ID: _____	CrVI preserved date/time: _____	Analyst Initials: _____
H ₂ SO ₄ ID: _____	Na ₂ S ₂ O ₃ ID: _____	<i>* pH must be adjusted between 9.3 - 9.7</i>	
HCL ID: _____	Na ₂ SO ₃ ID: _____	Ammonia Buffer Sol'n ID: _____	
		5N NaOH ID: _____	

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Laboratory Order ID: 25H0034

Sample Conditions Checklist

Samples Received at:	5.60°C
How were samples received?	UPS
Were Custody Seals used?	Yes
Are the custody papers filled out completely and correctly?	No
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Metals (except Hg, B) do not require field preservation, but lab preservation may delay analysis. Field parameters performed by the lab are always received past holding time and will be noted as such.	Yes

Janet Frazier notified via email for the chain of custody was received without a turnaround time indicated, the sample has been logged for a standard 10 day turnaround time. HEG 8/4/25 0755