

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087687.D
 Acq On : 28 Aug 2025 15:50
 Operator : JC\MD
 Sample : Q2977-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 33125

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/29/2025
 Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:20:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	172931	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	423081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	409383	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	198067	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	223380	63.045	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 126.100%#			
35) Dibromofluoromethane	8.153	113	158784	51.981	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.960%			
50) Toluene-d8	10.547	98	548927	48.013	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.020%			
62) 4-Bromofluorobenzene	12.829	95	199834	49.149	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.300%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	2188	0.867	ug/l #	79
39) Methylcyclohexane	9.582	83	1371	0.266	ug/l #	74
40) Benzene	8.588	78	6673	0.464	ug/l	96
52) Toluene	10.612	92	38208	4.288	ug/l	98
67) Ethyl Benzene	11.941	91	32604	1.849	ug/l	90
68) m/p-Xylenes	12.047	106	33589	5.194	ug/l	92
69) o-Xylene	12.376	106	20117	3.174	ug/l	96
73) Isopropylbenzene	12.671	105	5004	0.313	ug/l	96
78) n-propylbenzene	13.018	91	14036	0.712	ug/l	94
80) 1,3,5-Trimethylbenzene	13.153	105	16601	1.223	ug/l	90
84) 1,2,4-Trimethylbenzene	13.459	105	63087	4.642	ug/l	94
89) n-Butylbenzene	14.035	91	4763m	0.346	ug/l	
95) Naphthalene	15.617	128	13884	0.926	ug/l #	90

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

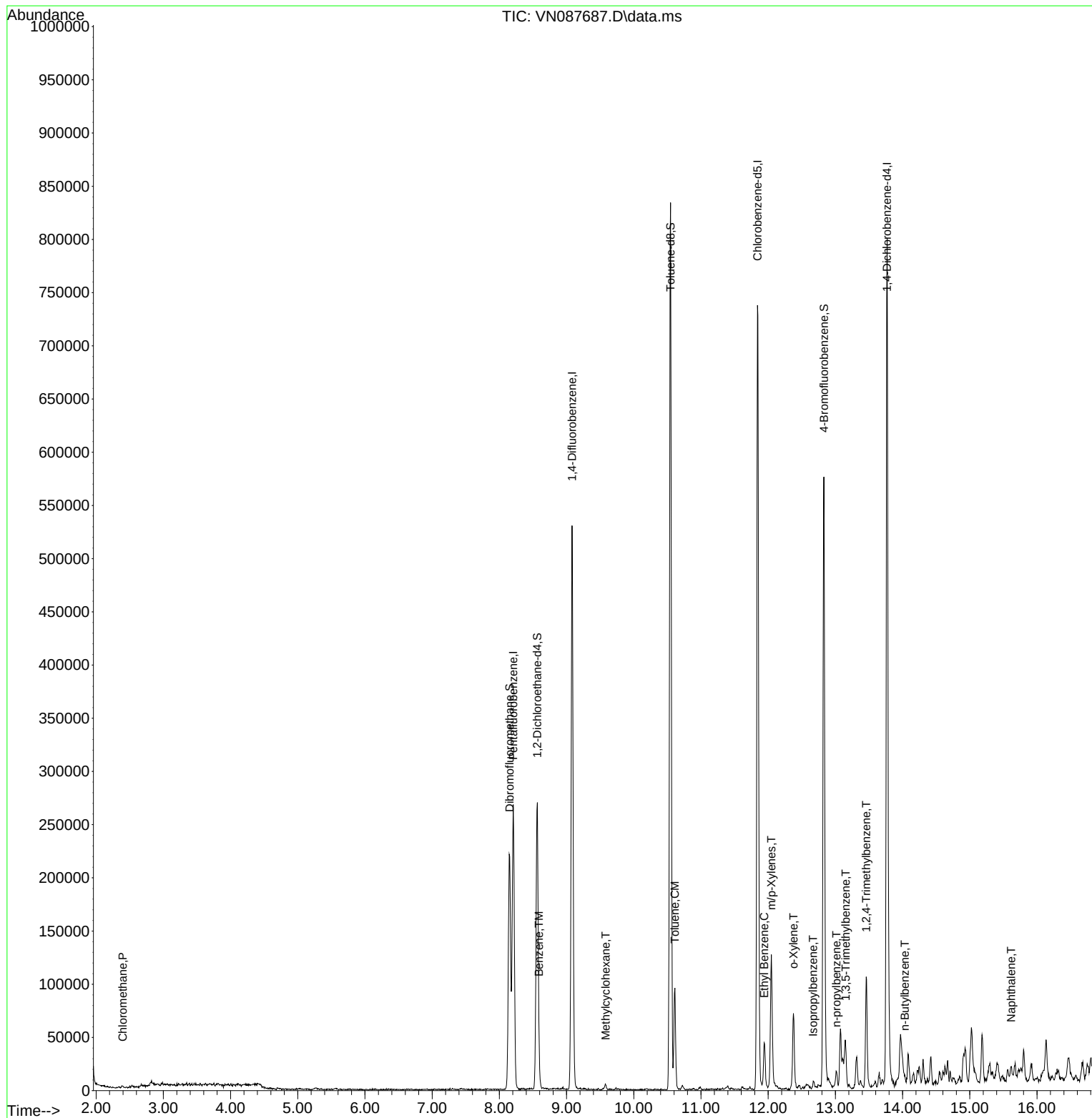
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087687.D
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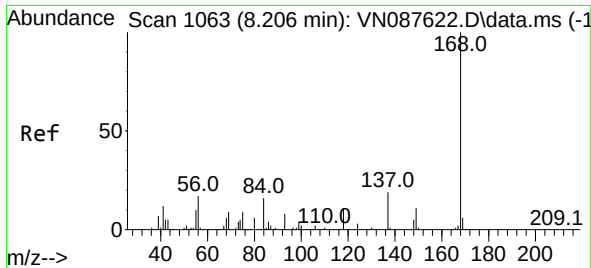
Instrument :
MSVOA_N
ClientSampleId :
33125

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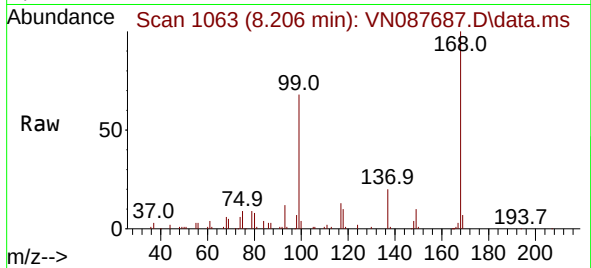
Quant Time: Aug 29 03:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

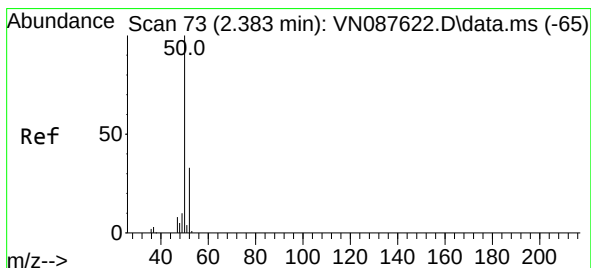
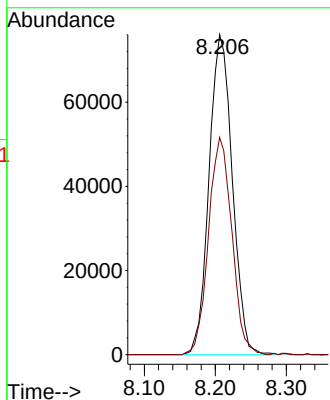
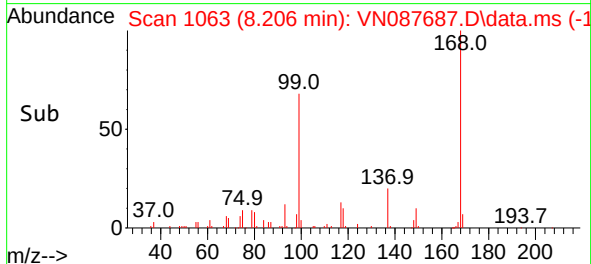
Instrument :
MSVOA_N
ClientSampleId :
33125



Tgt Ion:168 Resp: 17293
Ion Ratio Lower Upper
168 100
99 67.9 57.2 85.8

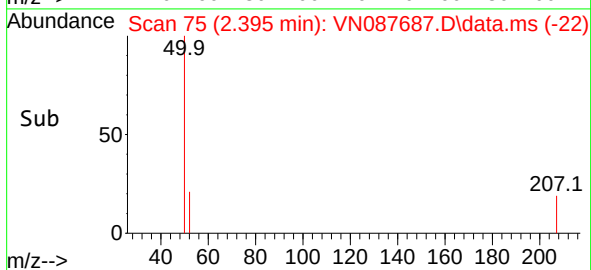
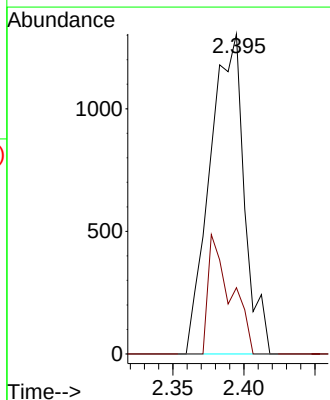
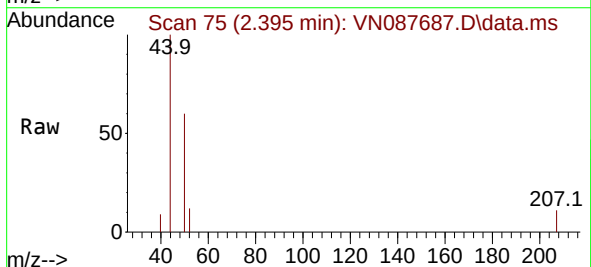
Manual Integrations
APPROVED

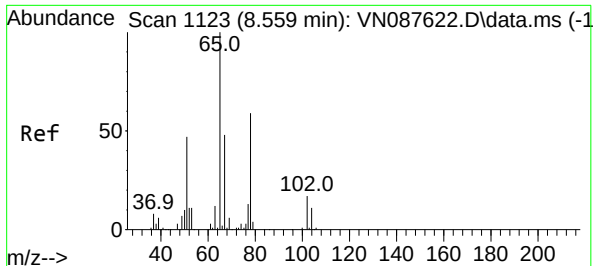
Reviewed By :John Carlone 08/29/2025
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#3
Chloromethane
Concen: 0.867 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.012 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

Tgt Ion: 50 Resp: 2188
Ion Ratio Lower Upper
50 100
52 20.7 26.2 39.4





#33

1,2-Dichloroethane-d4

Concen: 63.045 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087687.D

Acq: 28 Aug 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :

33125

Tgt Ion: 65 Resp: 223380

Ion Ratio Lower Upper

65 100

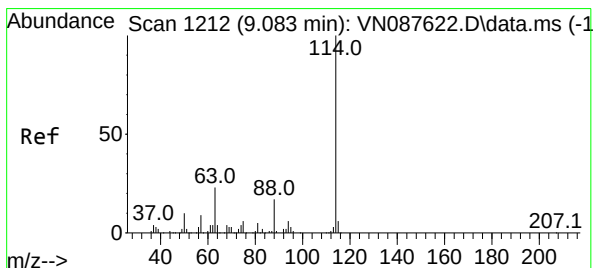
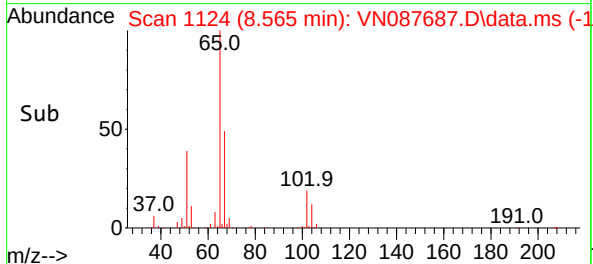
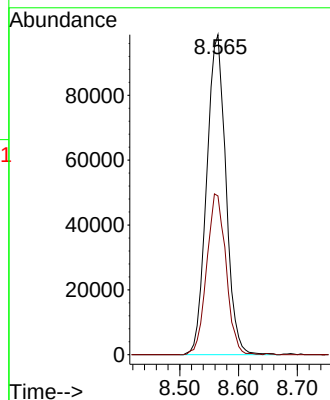
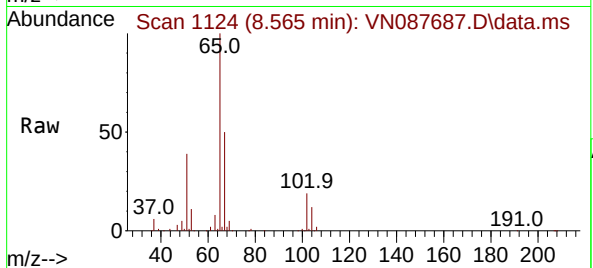
67 50.5 0.0 100.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087687.D

Acq: 28 Aug 2025 15:50

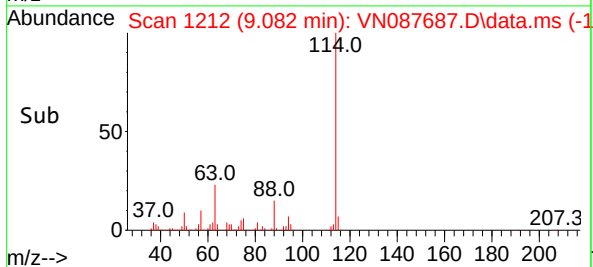
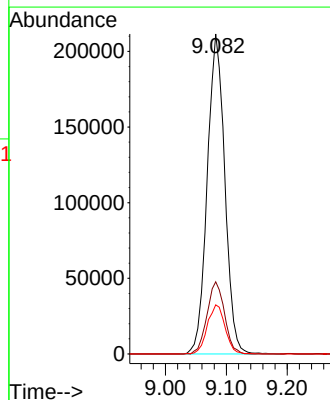
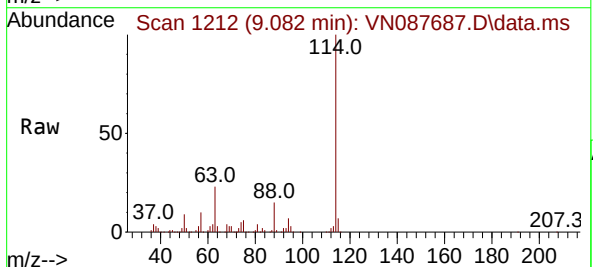
Tgt Ion:114 Resp: 423081

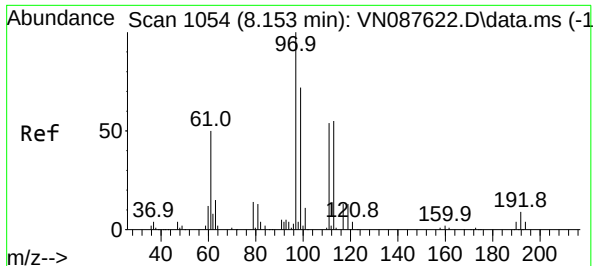
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.2

88 15.3 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.981 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087687.D

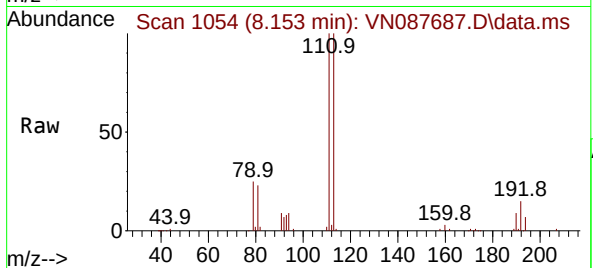
Acq: 28 Aug 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :

33125



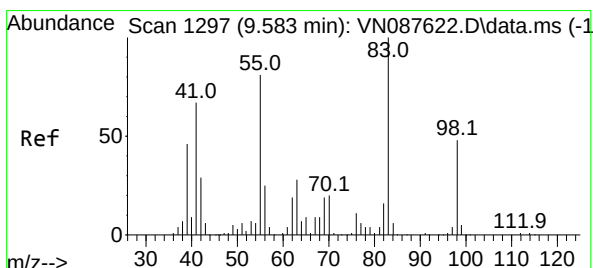
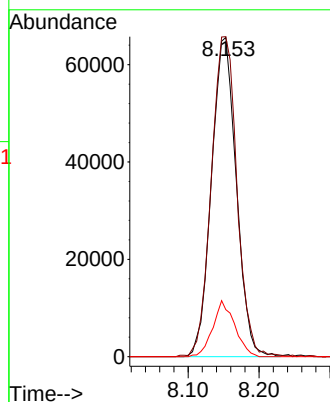
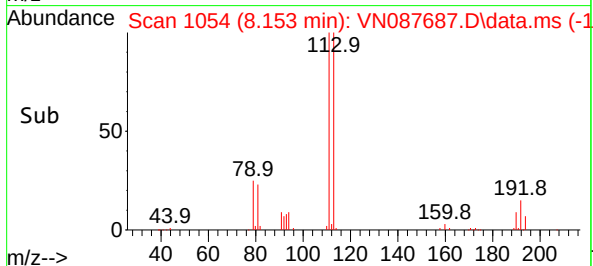
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.8	124.2
192	15.6	12.8	19.2

Manual Integrations

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#39

Methylcyclohexane

Concen: 0.266 ug/l

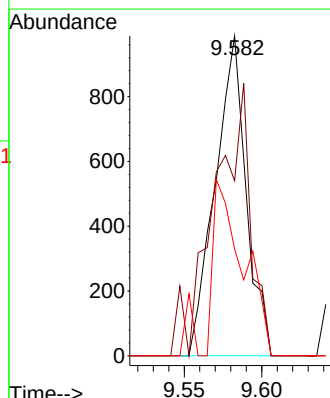
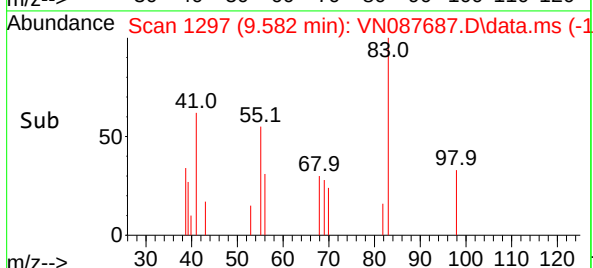
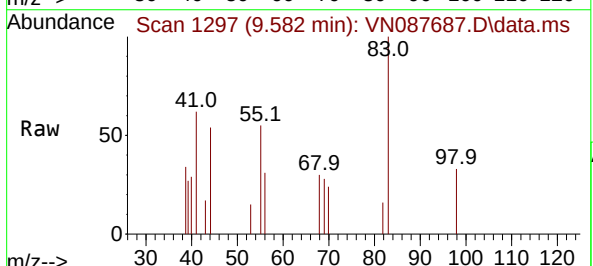
RT: 9.582 min Scan# 1297

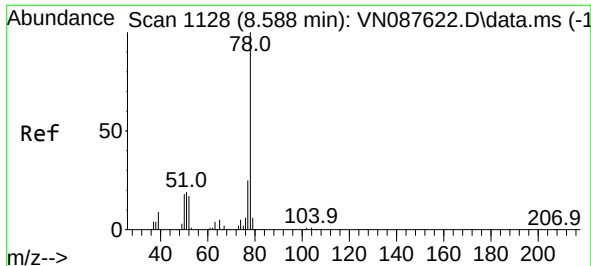
Delta R.T. -0.000 min

Lab File: VN087687.D

Acq: 28 Aug 2025 15:50

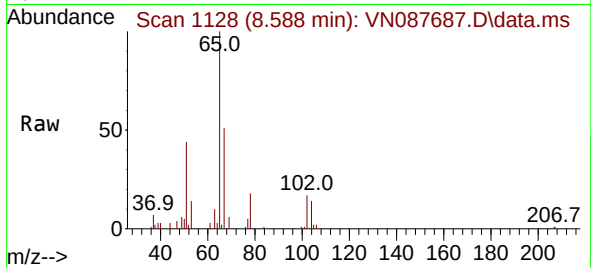
Tgt Ion	Ratio	Lower	Upper
83	100		
55	54.7	64.6	96.8#
98	33.4	38.4	57.6#





#40
Benzene
Concen: 0.464 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

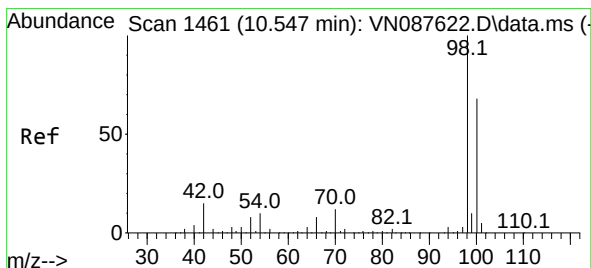
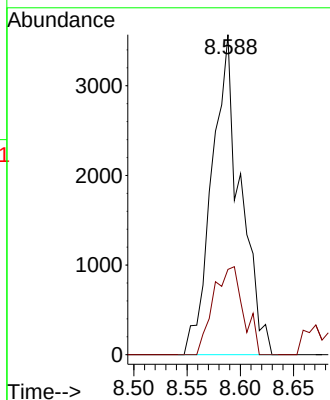
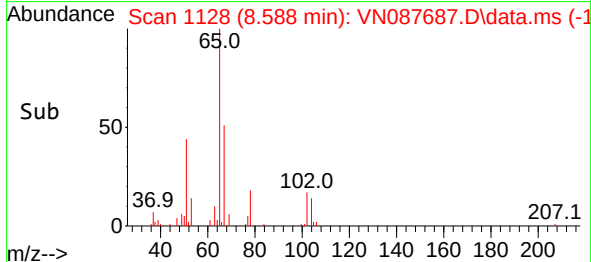
Instrument :
MSVOA_N
ClientSampleId :
33125



Tgt Ion: 78 Resp: 667
Ion Ratio Lower Upper
78 100
77 26.6 19.7 29.5

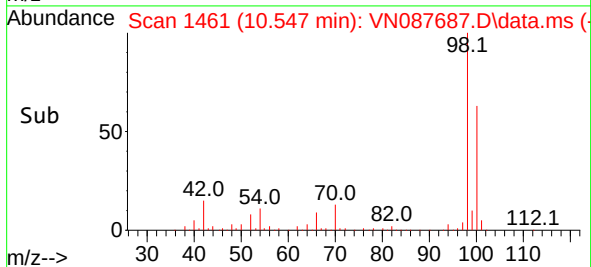
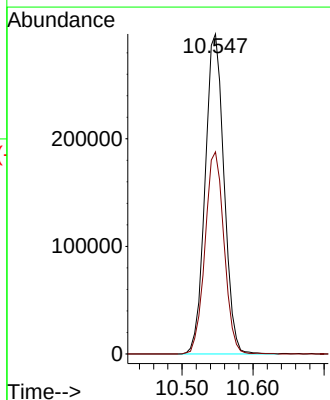
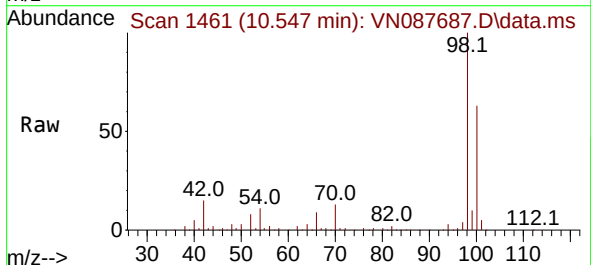
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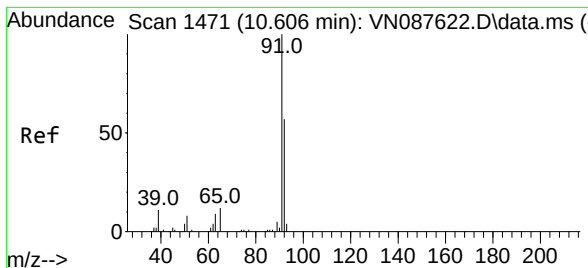
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025



#50
Toluene-d8
Concen: 48.013 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

Tgt Ion: 98 Resp: 548927
Ion Ratio Lower Upper
98 100
100 63.7 52.8 79.2





#52

Toluene

Concen: 4.288 ug/l

RT: 10.612 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VN087687.D

Acq: 28 Aug 2025 15:50

Instrument :

MSVOA_N

ClientSampleId :

33125

Tgt Ion: 92 Resp: 38208

Ion Ratio Lower Upper

92 100

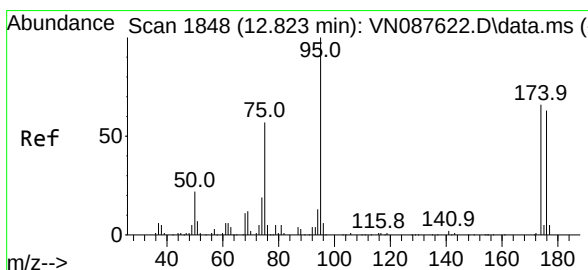
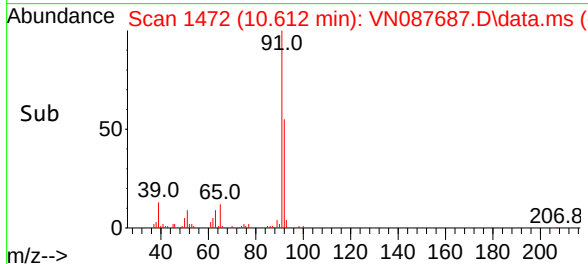
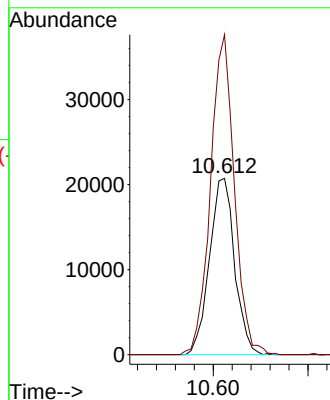
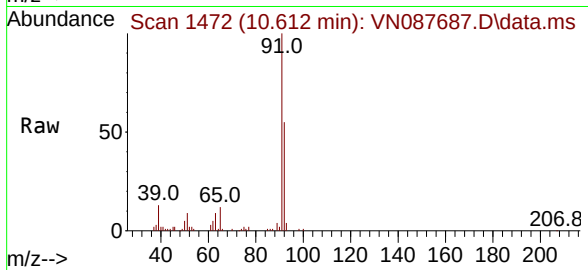
91 172.2 140.4 210.6

Manual Integrations

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Supervised By :Semsettin Yesilyurt 08/29/2025



#62

4-Bromofluorobenzene

Concen: 49.149 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN087687.D

Acq: 28 Aug 2025 15:50

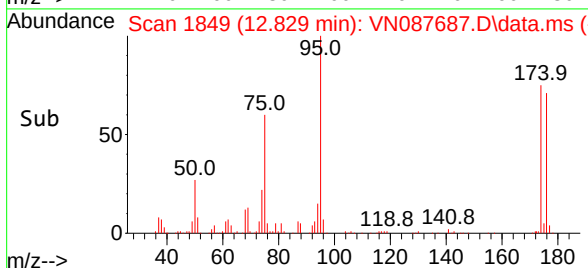
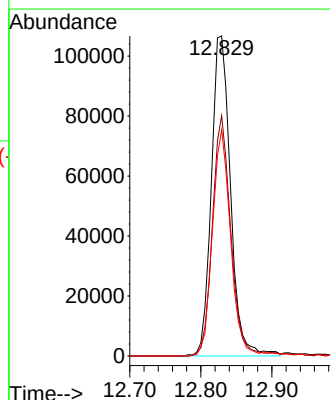
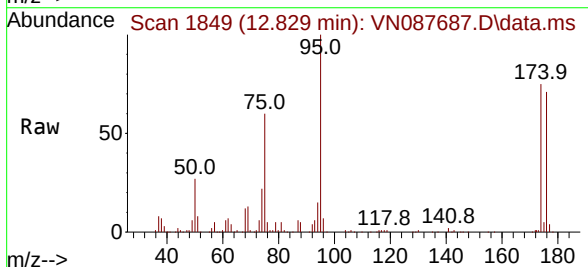
Tgt Ion: 95 Resp: 199834

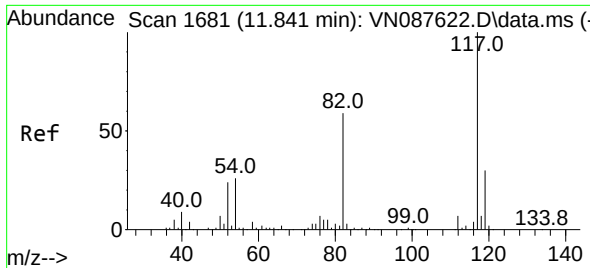
Ion Ratio Lower Upper

95 100

174 71.5 0.0 138.4

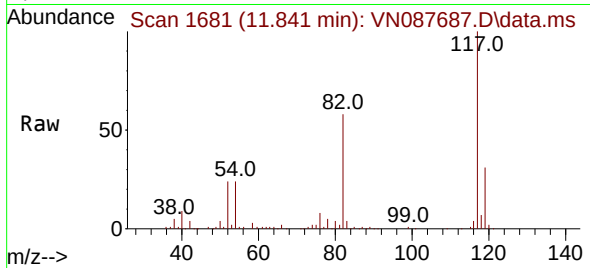
176 66.6 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

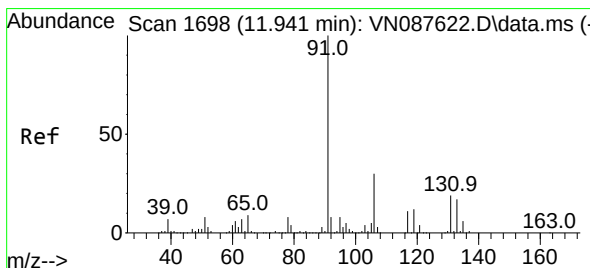
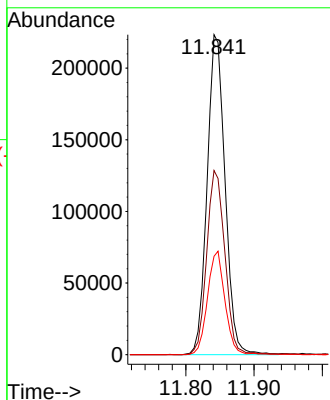
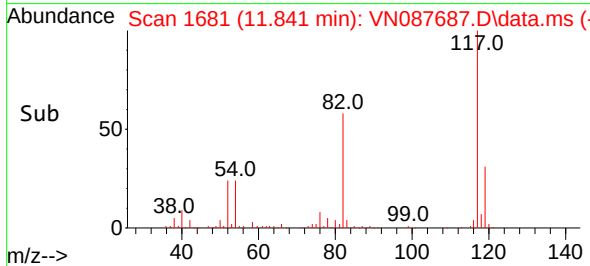
Instrument :
MSVOA_N
ClientSampleId :
33125



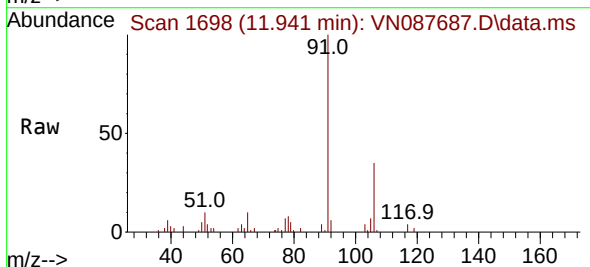
Tgt Ion:117 Resp: 40938
Ion Ratio Lower Upper
117 100
82 57.5 47.4 71.2
119 30.8 24.3 36.5

Manual Integrations
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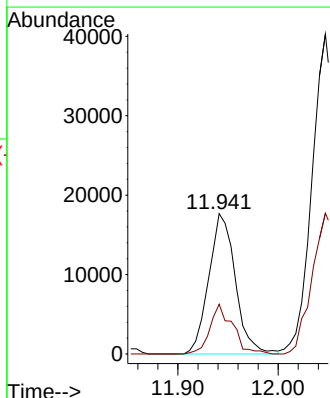
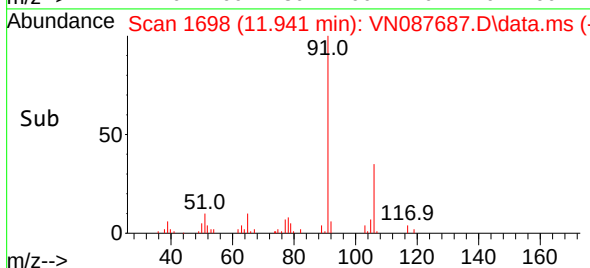
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

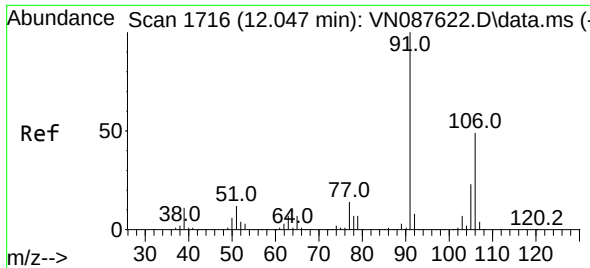


#67
Ethyl Benzene
Concen: 1.849 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50



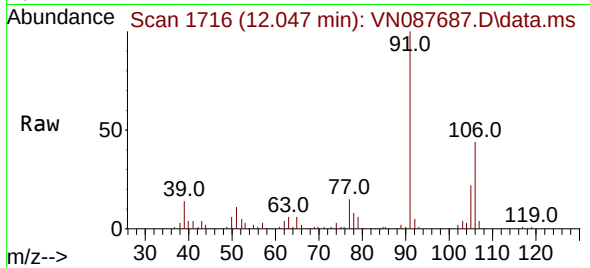
Tgt Ion: 91 Resp: 32604
Ion Ratio Lower Upper
91 100
106 35.5 24.1 36.1





#68
m/p-Xylenes
Concen: 5.194 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

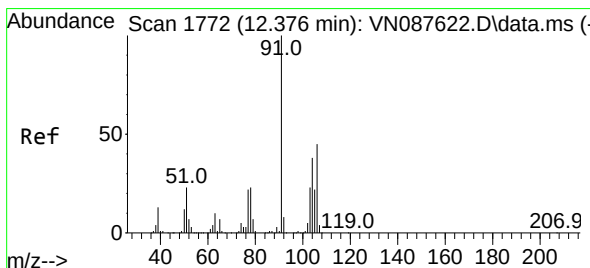
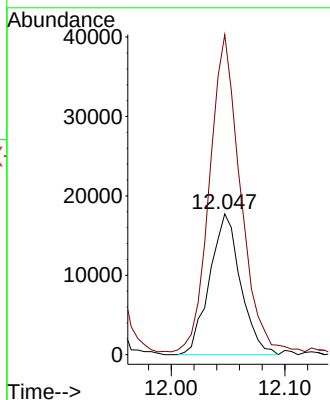
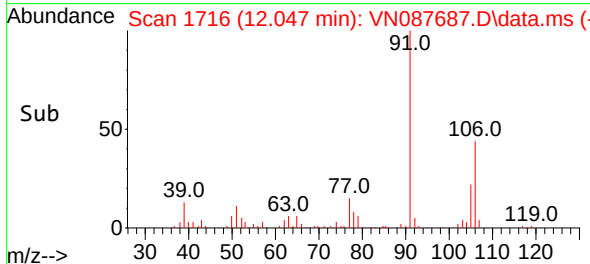
Instrument :
MSVOA_N
ClientSampleId :
33125



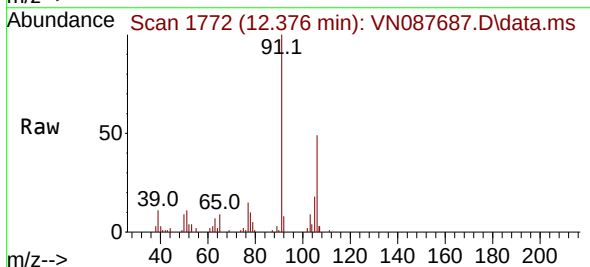
Tgt Ion:106 Resp: 33589
Ion Ratio Lower Upper
106 100
91 224.4 169.3 253.9

Manual Integrations
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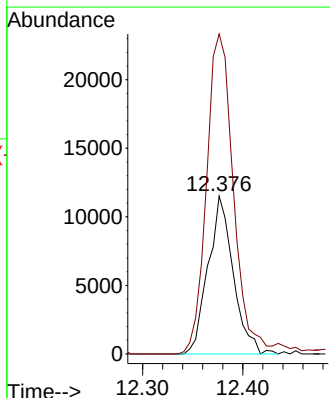
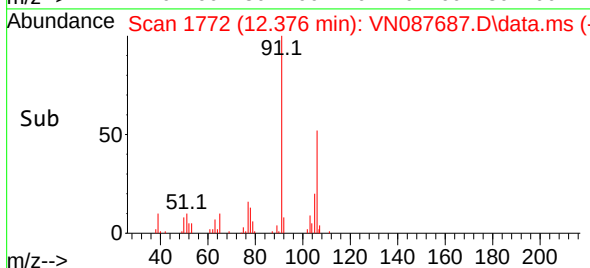
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

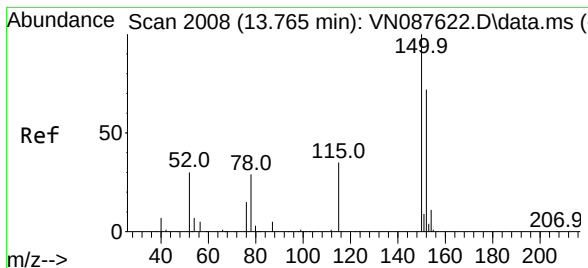


#69
o-Xylene
Concen: 3.174 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50



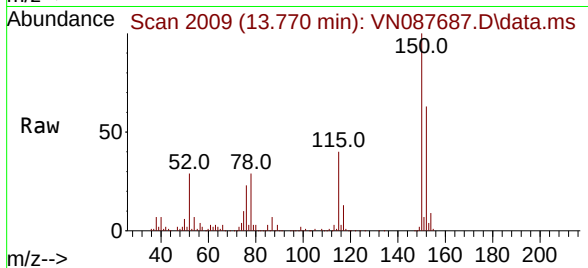
Tgt Ion:106 Resp: 20117
Ion Ratio Lower Upper
106 100
91 216.5 111.4 334.2





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

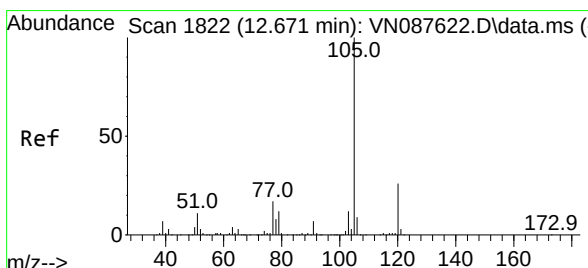
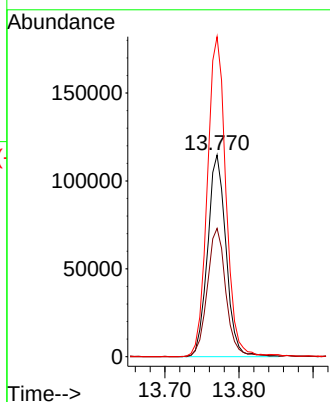
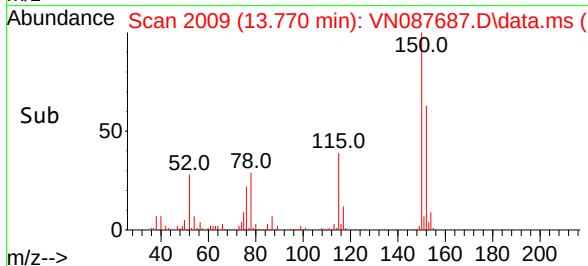
Instrument :
MSVOA_N
ClientSampleId :
33125



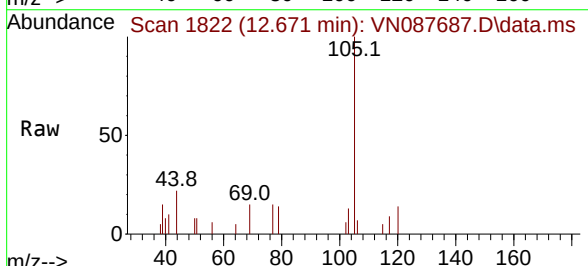
Tgt Ion:152 Resp: 19806
Ion Ratio Lower Upper
152 100
115 64.7 32.3 96.8
150 159.6 0.0 351.0

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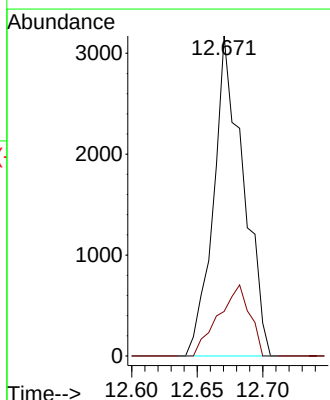
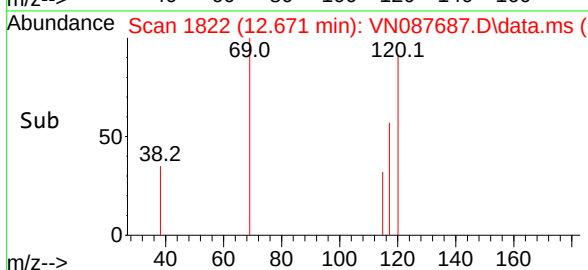
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

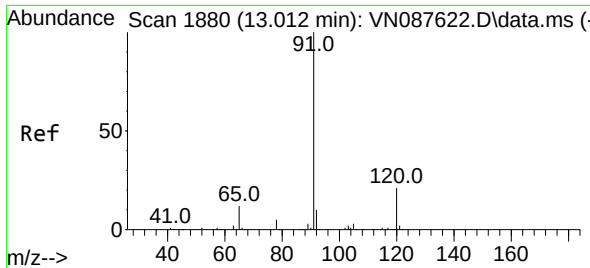


#73
Isopropylbenzene
Concen: 0.313 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50



Tgt Ion:105 Resp: 5004
Ion Ratio Lower Upper
105 100
120 23.3 12.8 38.3





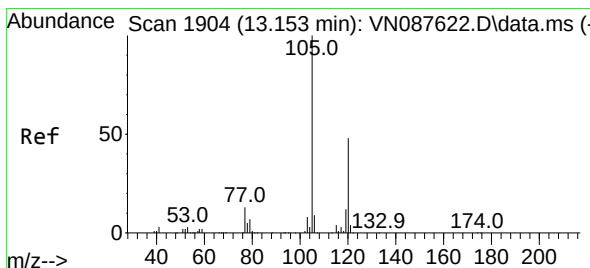
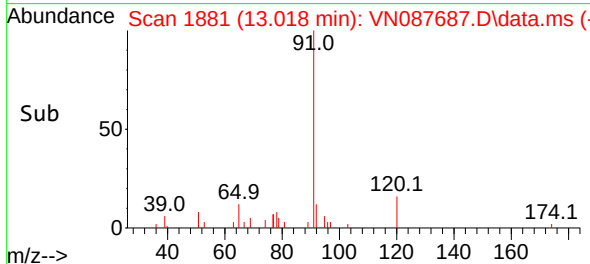
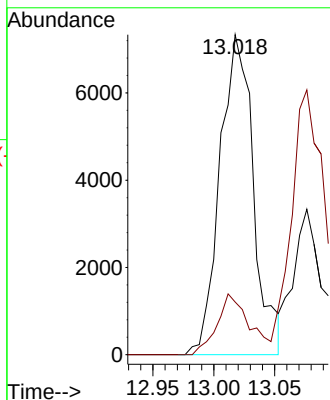
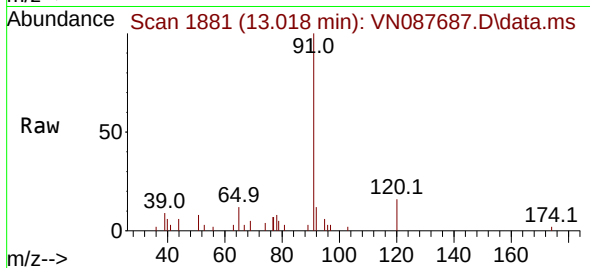
#78
n-propylbenzene
Concen: 0.712 ug/l
RT: 13.018 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :
33125

Tgt Ion: 91 Resp: 14030
Ion Ratio Lower Upper
91 100
120 18.6 10.7 32.1

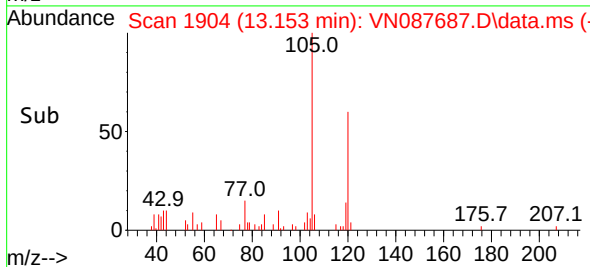
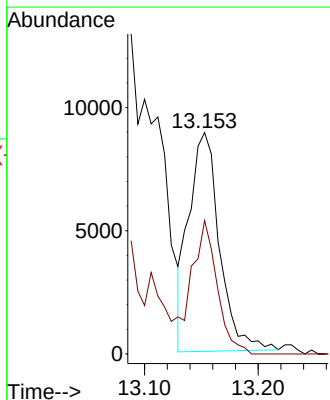
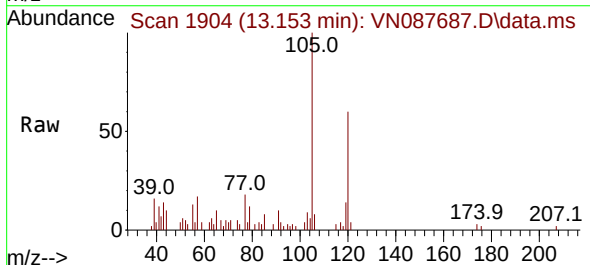
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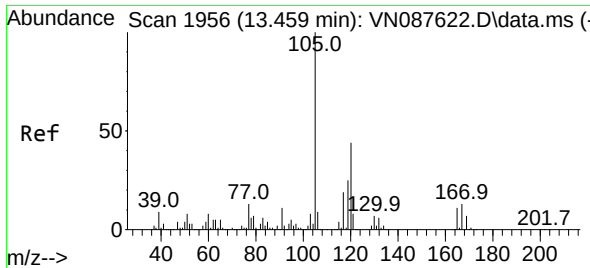
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025



#80
1,3,5-Trimethylbenzene
Concen: 1.223 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

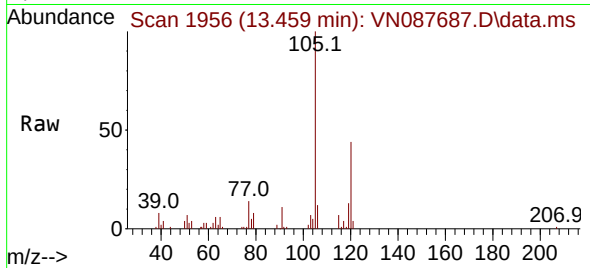
Tgt Ion:105 Resp: 16601
Ion Ratio Lower Upper
105 100
120 52.9 23.2 69.6





#84
1,2,4-Trimethylbenzene
Concen: 4.642 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

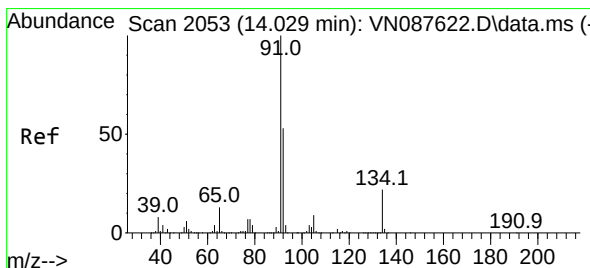
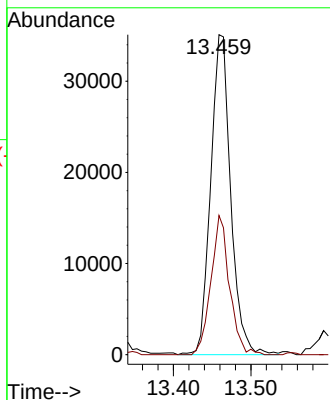
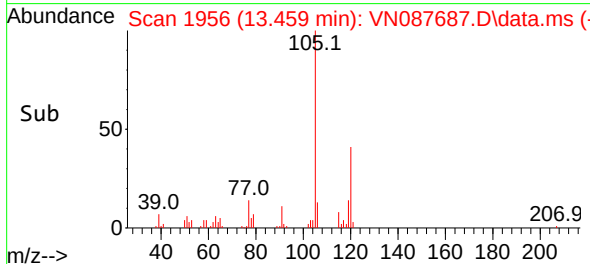
Instrument :
MSVOA_N
ClientSampleId :
33125



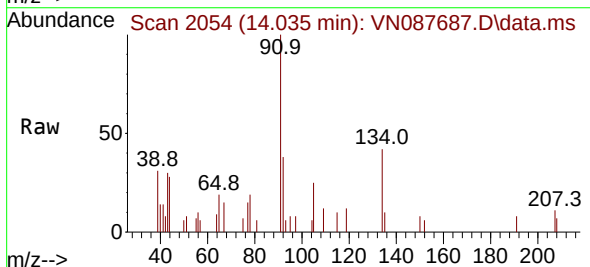
Tgt Ion:105 Resp: 6308
Ion Ratio Lower Upper
105 100
120 40.4 22.0 66.0

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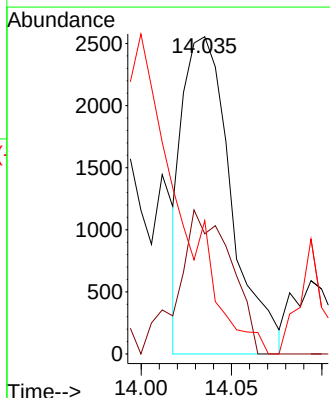
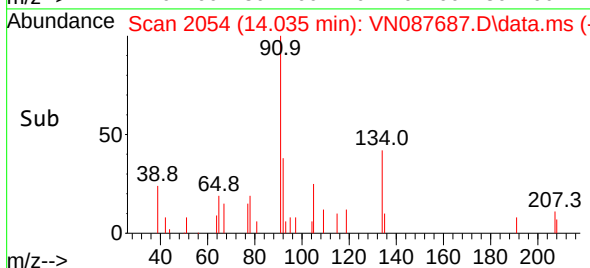
Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

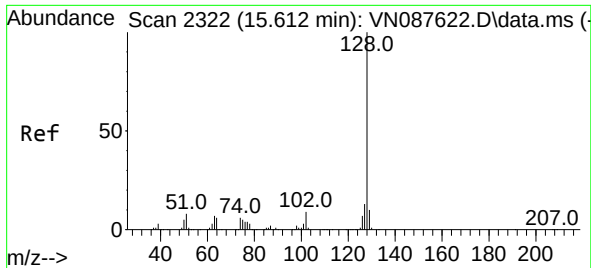


#89
n-Butylbenzene
Concen: 0.346 ug/l m
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50



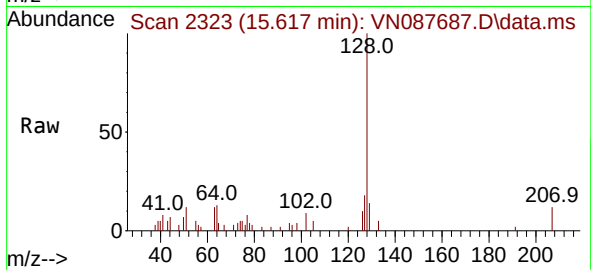
Tgt Ion: 91 Resp: 4763
Ion Ratio Lower Upper
91 100
92 49.3 25.9 77.8
134 0.0 11.7 35.0#





#95
Naphthalene
Concen: 0.926 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087687.D
Acq: 28 Aug 2025 15:50

Instrument :
MSVOA_N
ClientSampleId :
33125



Tgt Ion:128 Resp: 13884
Ion Ratio Lower Upper
128 100
127 19.3 10.6 15.8
129 11.9 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

