

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091925\
 Data File : VN087907.D
 Acq On : 19 Sep 2025 13:24
 Operator : JC\MD
 Sample : Q3122-02DL 100X
 Misc : 2.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 03:06:24 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	163737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	353909	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	344231	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	168483	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	158239	47.168	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.340%
35) Dibromofluoromethane	8.153	113	133848	52.382	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.760%
50) Toluene-d8	10.547	98	447637	46.806	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.620%
62) 4-Bromofluorobenzene	12.829	95	160096	47.071	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.140%

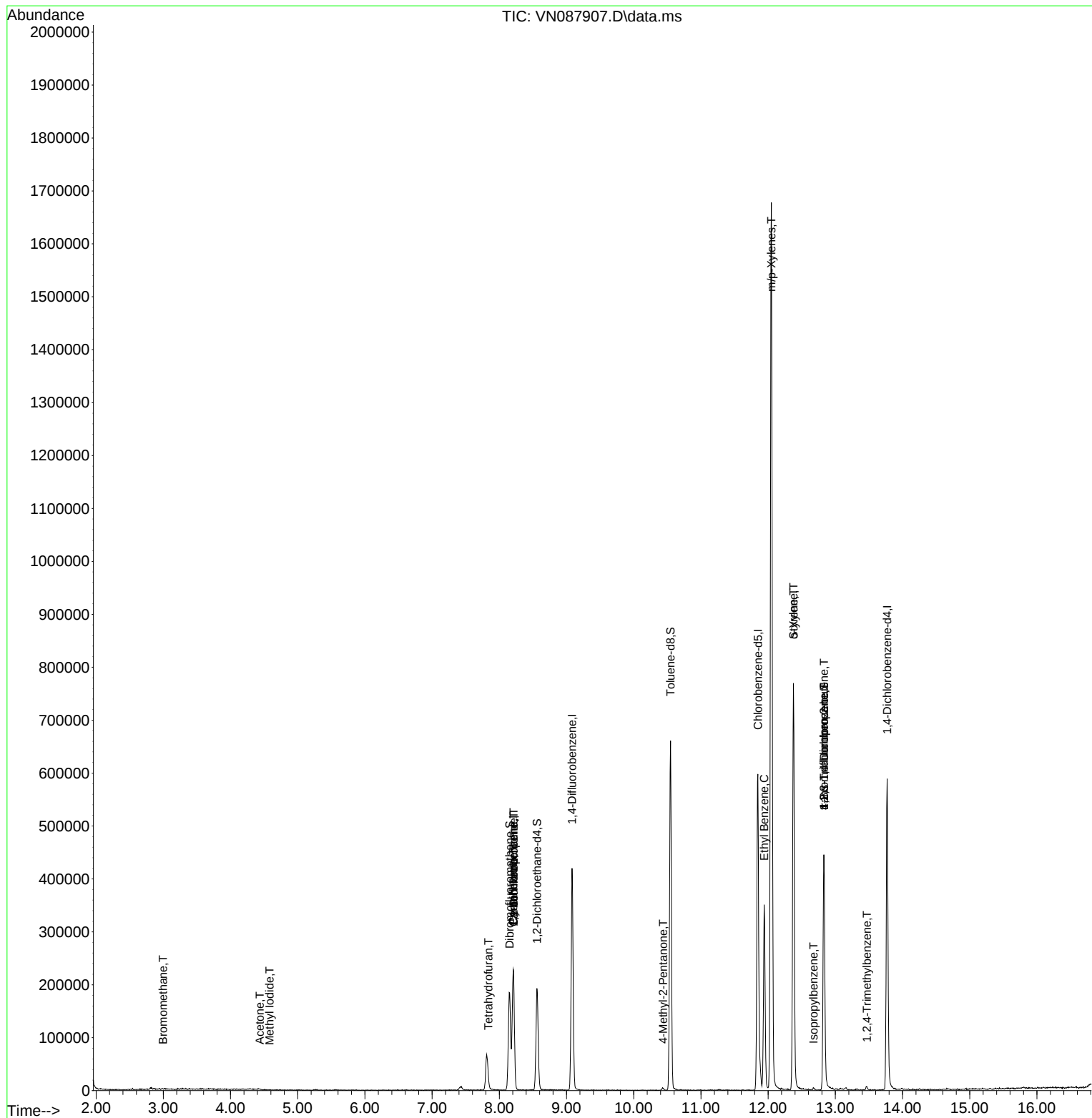
Target Compounds					Qvalue
5) Bromomethane	2.995	94	436	0.305	ug/l 96
10) Methyl Iodide	4.583	142	70	6.846	ug/l # 38
16) Acetone	4.436	43	1485	0.813	ug/l 95
20) Methylene Chloride	5.271	84	632	Below Cal	# 33
29) Tetrahydrofuran	7.836	42	554	0.358	ug/l # 34
31) Cyclohexane	8.206	56	4029	0.955	ug/l # 3
36) 1,1-Dichloropropene	8.212	75	13739	3.505	ug/l # 53
38) Carbon Tetrachloride	8.212	117	17115	4.422	ug/l # 14
51) 4-Methyl-2-Pentanone	10.435	43	3360	0.666	ug/l 98
67) Ethyl Benzene	11.941	91	248163	16.736	ug/l 97
68) m/p-Xylenes	12.047	106	539059	99.128	ug/l 94
69) o-Xylene	12.376	106	217888	40.885	ug/l 95
70) Styrene	12.376	104	13541	1.517	ug/l # 1
73) Isopropylbenzene	12.676	105	3187	0.234	ug/l 95
76) 1,2,3-Trichloropropane	12.829	75	89109	22.553	ug/l # 1
81) trans-1,4-Dichloro-2-b...	12.829	75	89109	59.708	ug/l # 1
84) 1,2,4-Trimethylbenzene	13.471	105	4075	0.352	ug/l 77

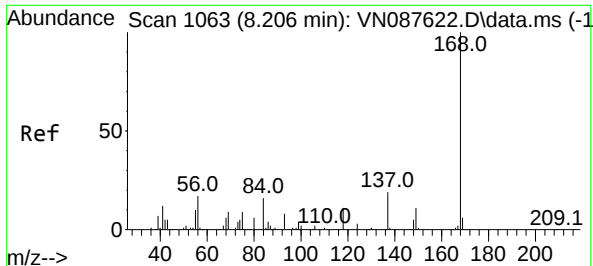
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN087907.D
Acq On : 19 Sep 2025 13:24
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Misc : 2.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

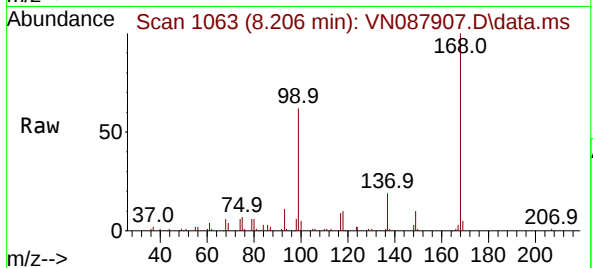
Quant Time: Sep 20 03:06:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



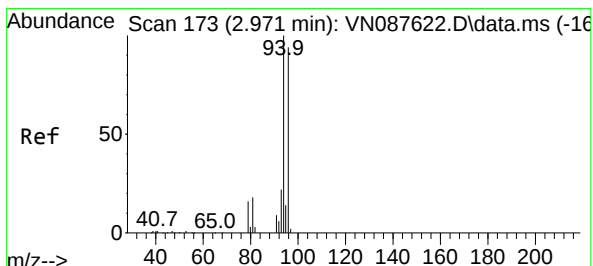
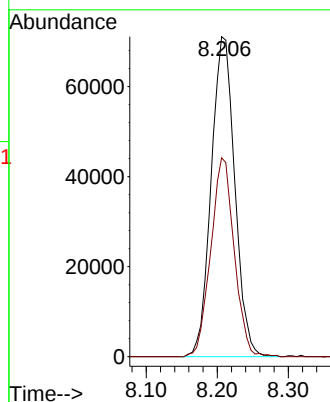
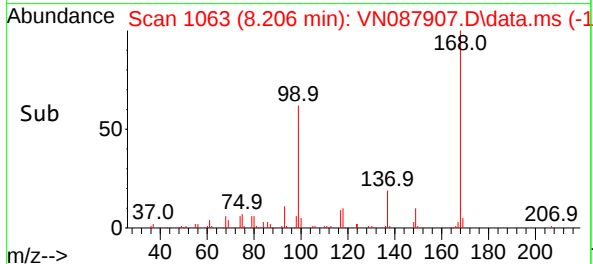


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Instrument :
MSVOA_N
ClientSampleId :

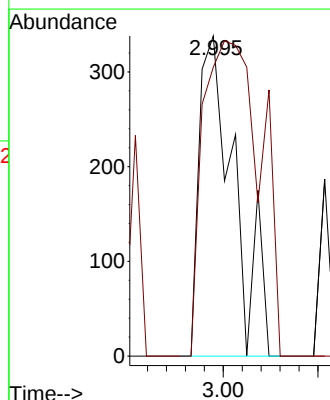
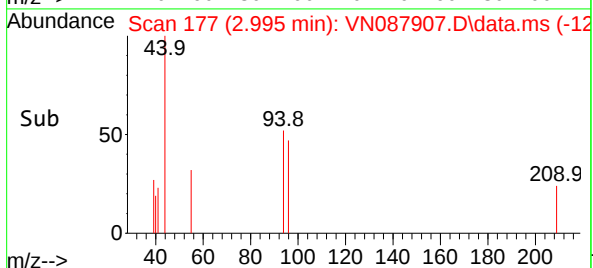
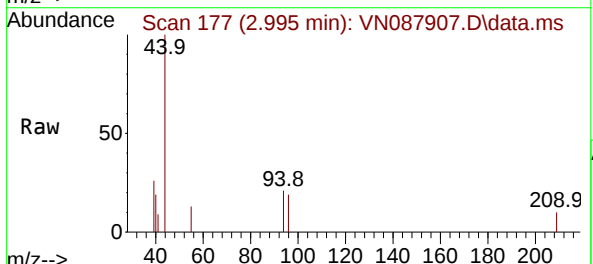


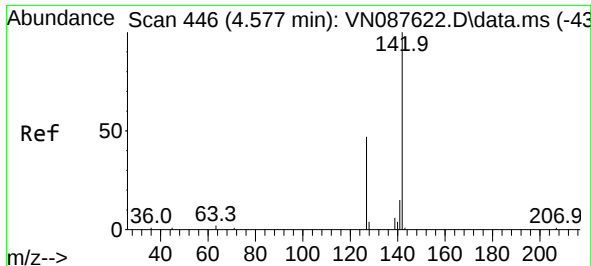
Tgt Ion:168 Resp: 163737
Ion Ratio Lower Upper
168 100
99 62.1 57.2 85.8



#5
Bromomethane
Concen: 0.305 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

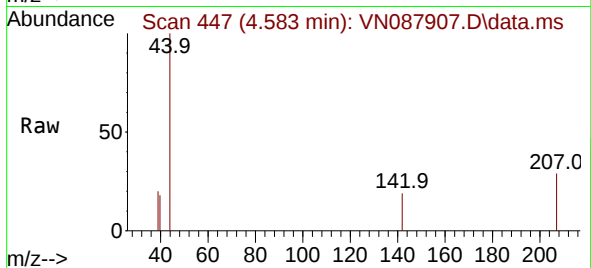
Tgt Ion: 94 Resp: 436
Ion Ratio Lower Upper
94 100
96 90.2 75.4 113.2



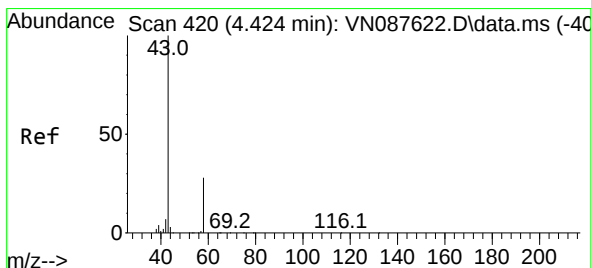
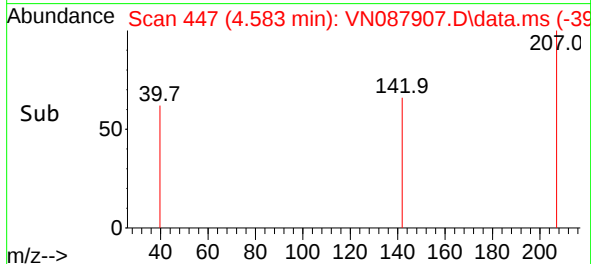
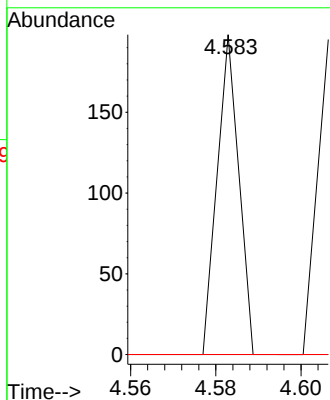


#10
Methyl Iodide
Concen: 6.846 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Instrument :
MSVOA_N
ClientSampleId :

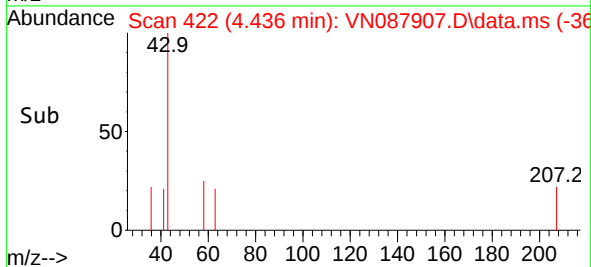
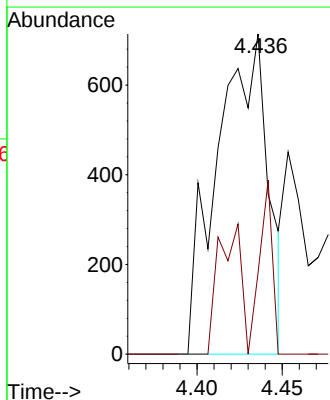
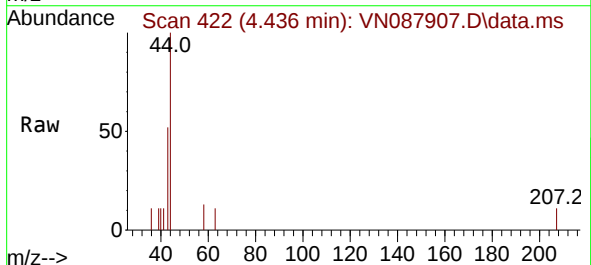


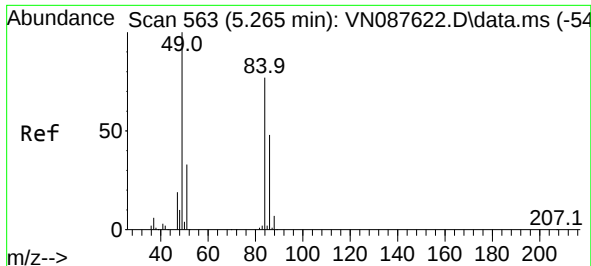
Tgt Ion:142 Resp: 70
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#16
Acetone
Concen: 0.813 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

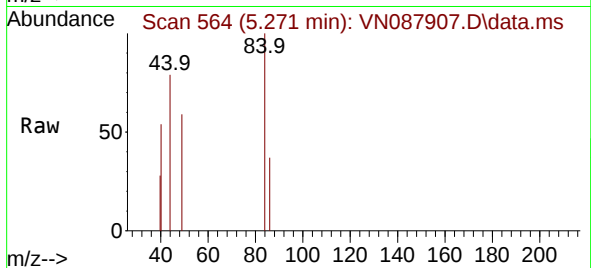
Tgt Ion: 43 Resp: 1485
Ion Ratio Lower Upper
43 100
58 25.4 22.6 33.8



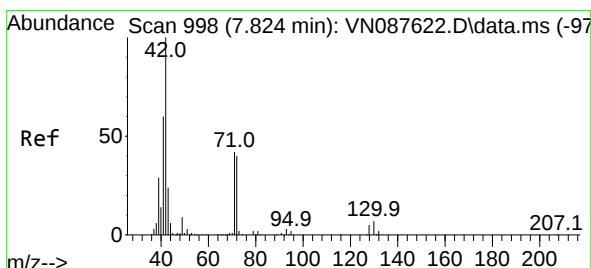
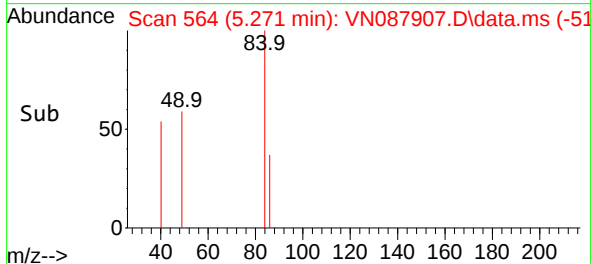
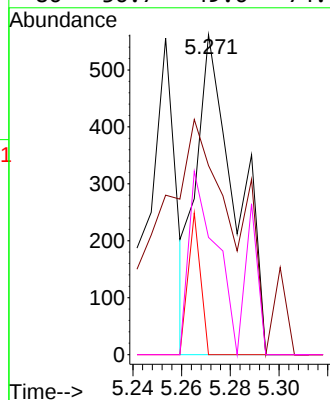


#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Instrument :
MSVOA_N
ClientSampleId :

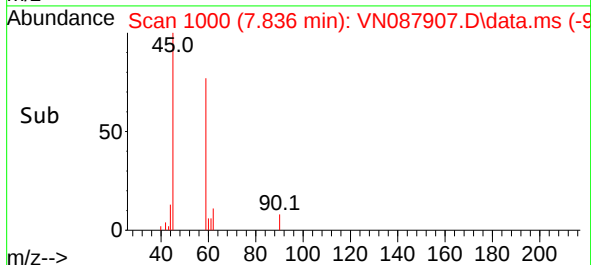
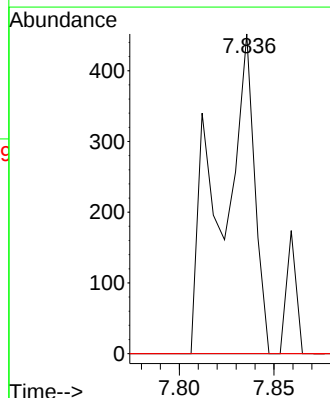
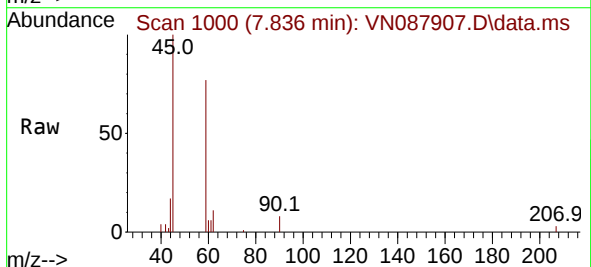


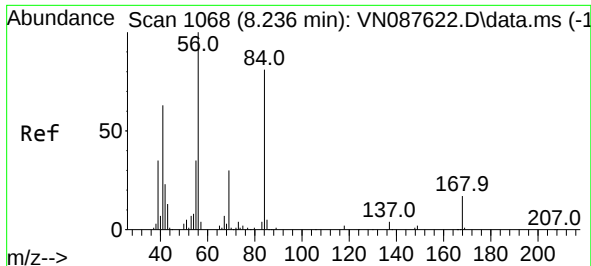
Tgt Ion: 84 Resp: 632
Ion Ratio Lower Upper
84 100
49 31.9 103.4 155.2#
51 0.0 33.8 50.8#
86 36.7 49.6 74.4#



#29
Tetrahydrofuran
Concen: 0.358 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

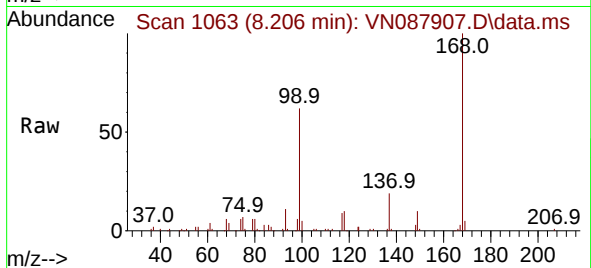
Tgt Ion: 42 Resp: 554
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#



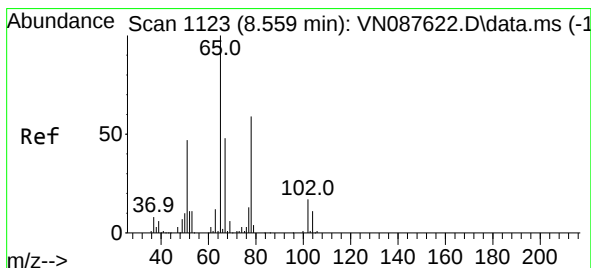
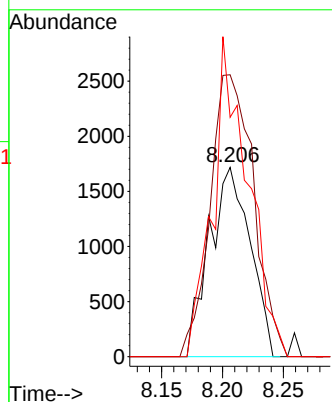
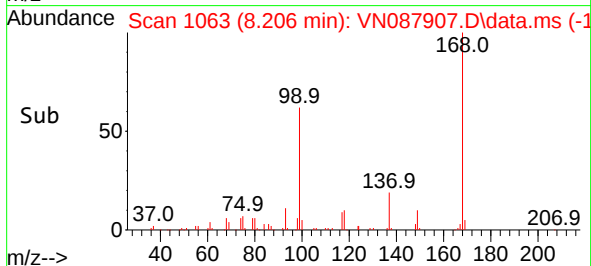


#31
Cyclohexane
Concen: 0.955 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Instrument :
MSVOA_N
ClientSampleId :

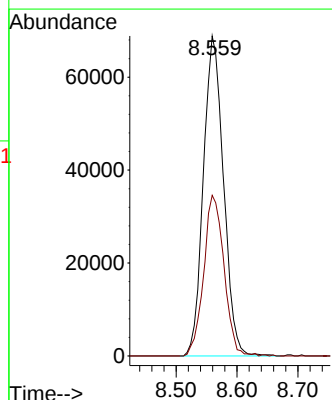
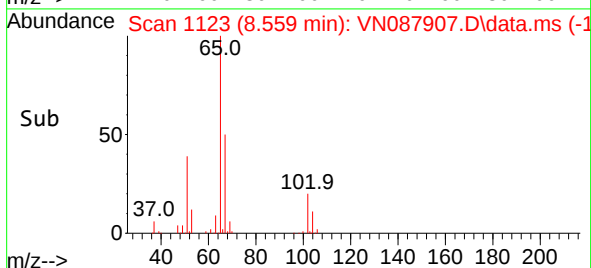
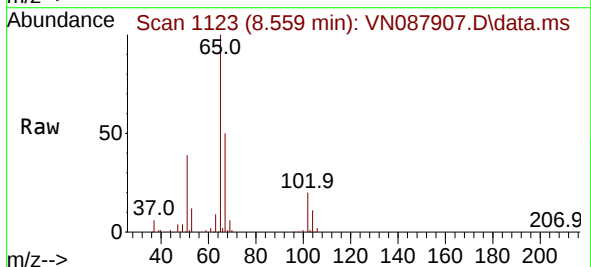


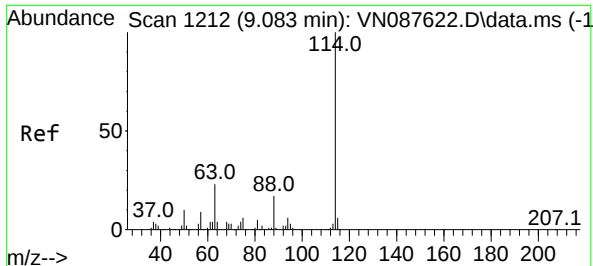
Tgt Ion: 56 Resp: 4029
Ion Ratio Lower Upper
56 100
69 149.0 23.7 35.5#
84 126.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 47.168 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Tgt Ion: 65 Resp: 158239
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087907.D

Acq: 19 Sep 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

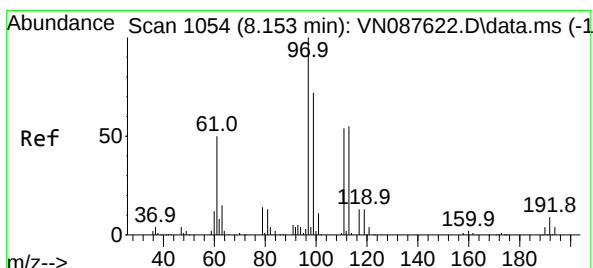
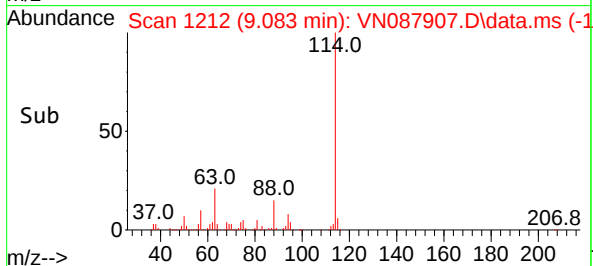
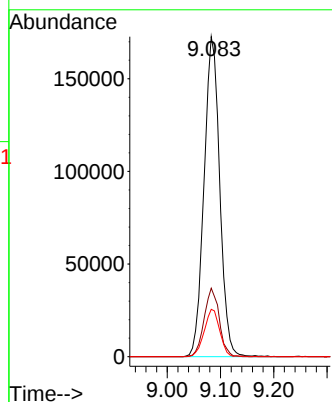
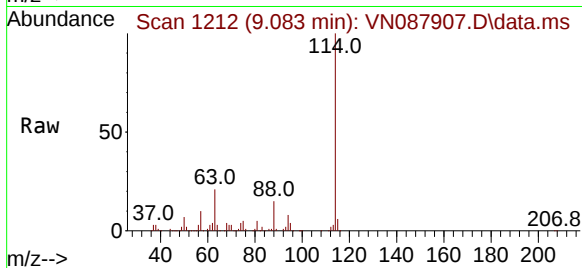
Tgt Ion:114 Resp: 353909

Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.2

88 14.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.382 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087907.D

Acq: 19 Sep 2025 13:24

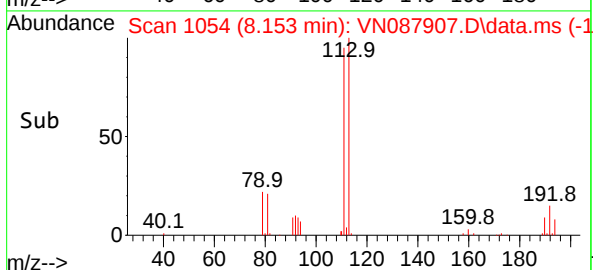
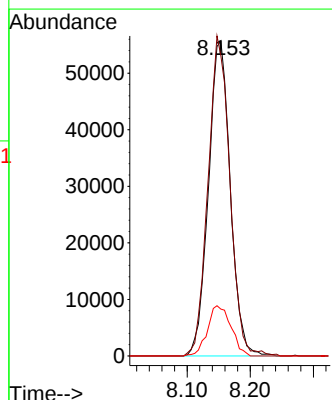
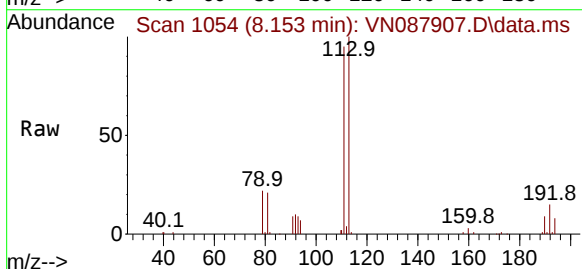
Tgt Ion:113 Resp: 133848

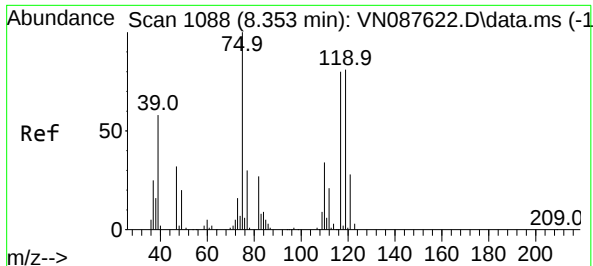
Ion Ratio Lower Upper

113 100

111 101.5 82.8 124.2

192 17.1 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.505 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

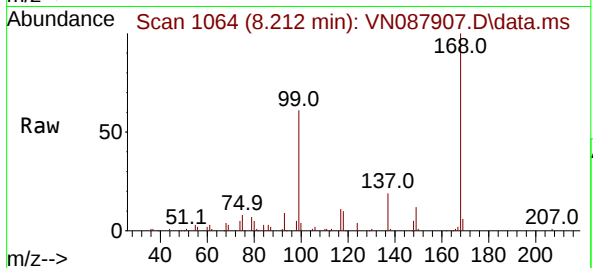
Lab File: VN087907.D

Acq: 19 Sep 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :



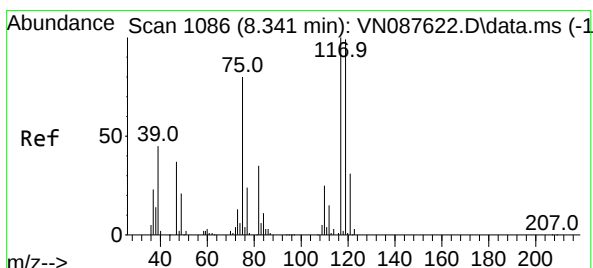
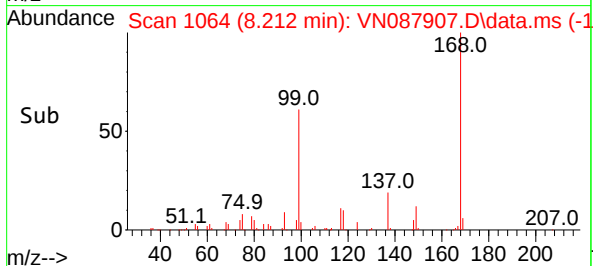
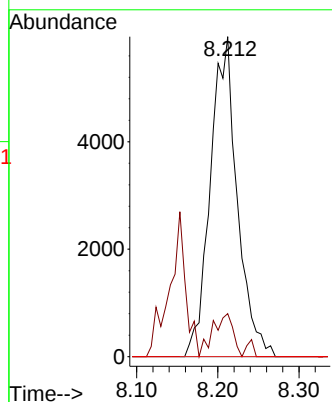
Tgt Ion: 75 Resp: 13739

Ion Ratio Lower Upper

75 100

110 10.1 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.422 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.129 min

Lab File: VN087907.D

Acq: 19 Sep 2025 13:24

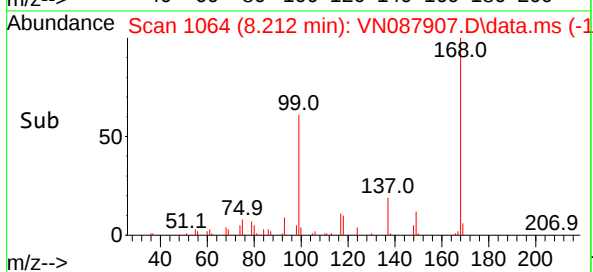
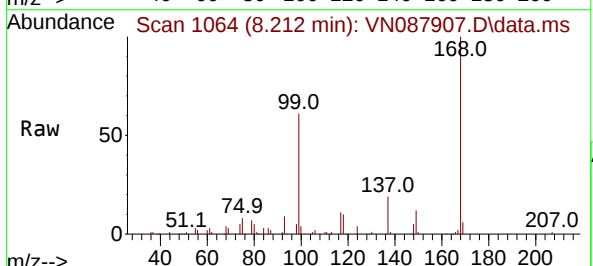
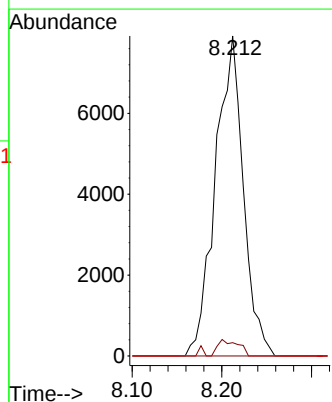
Tgt Ion: 117 Resp: 17115

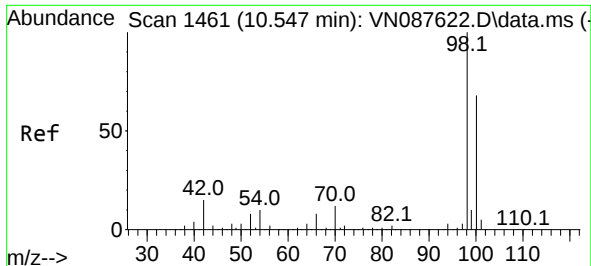
Ion Ratio Lower Upper

117 100

119 4.1 79.0 118.6#

121 0.0 25.0 37.6#

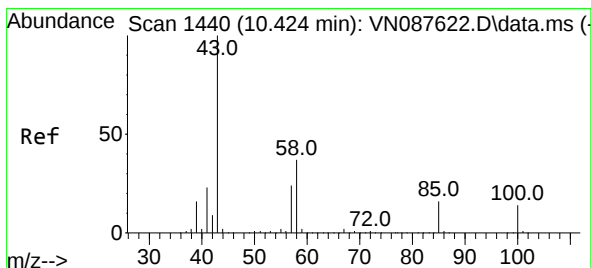
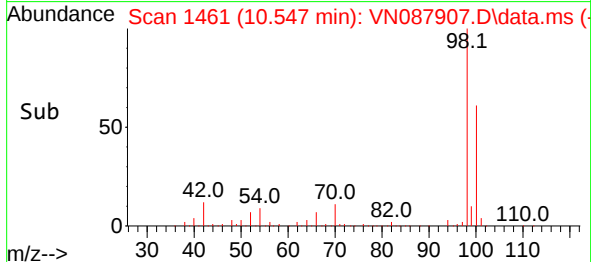
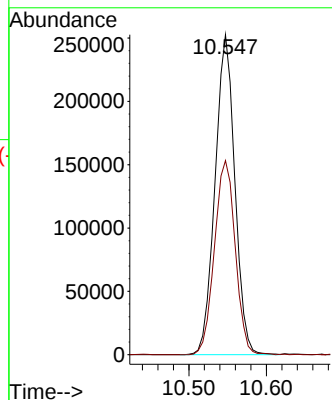
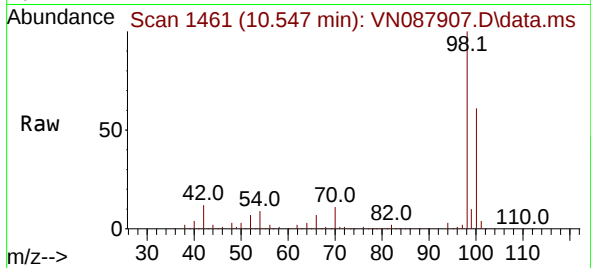




#50
Toluene-d8
Concen: 46.806 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

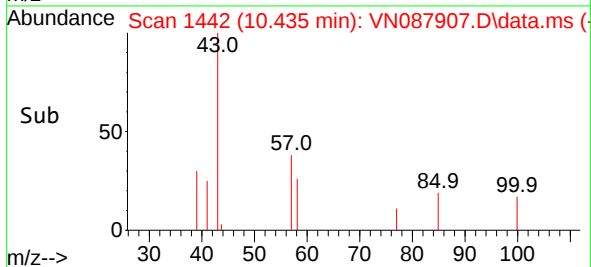
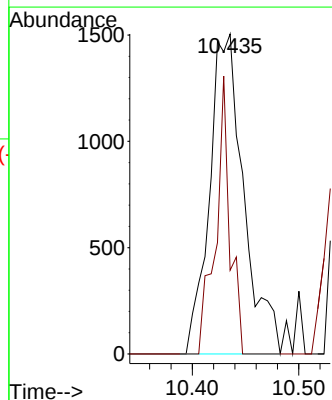
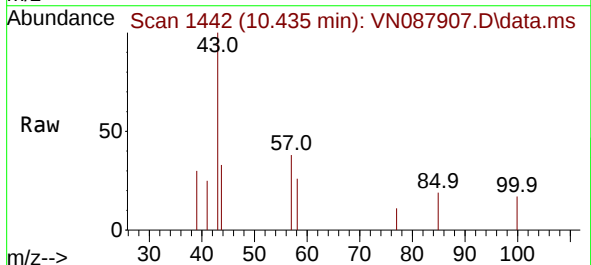
Instrument :
MSVOA_N
ClientSampleId :

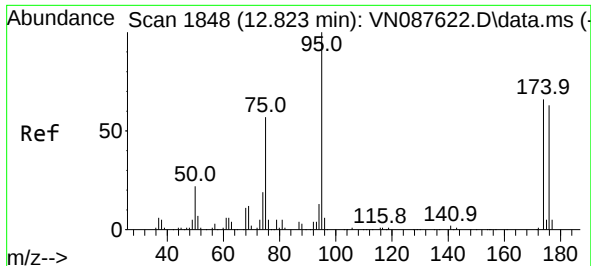
Tgt Ion: 98 Resp: 447637
Ion Ratio Lower Upper
98 100
100 63.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.666 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Tgt Ion: 43 Resp: 3360
Ion Ratio Lower Upper
43 100
58 36.0 29.6 44.4

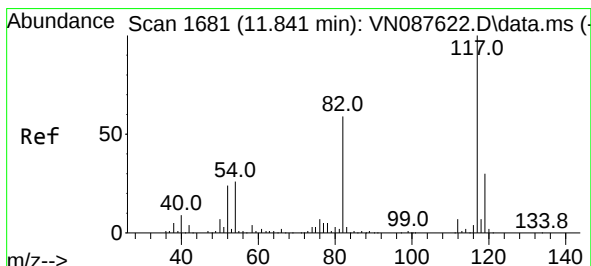
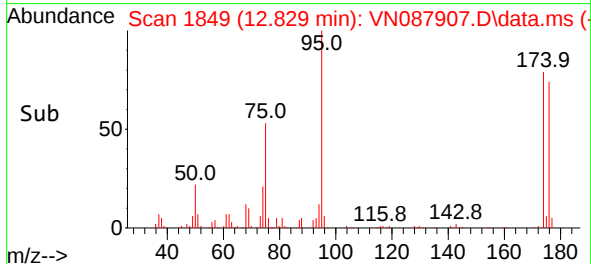
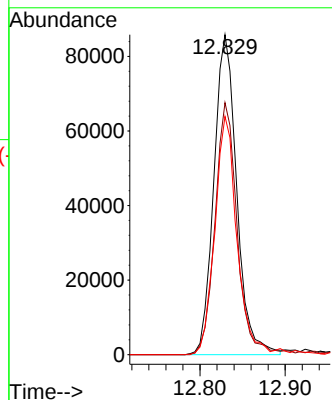
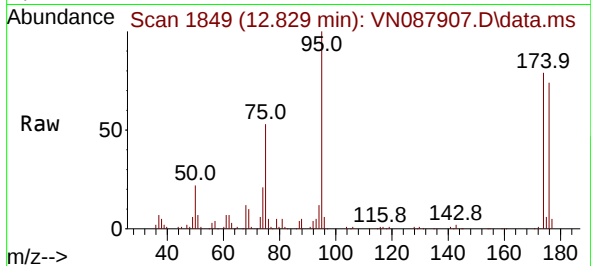




#62
4-Bromofluorobenzene
Concen: 47.071 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

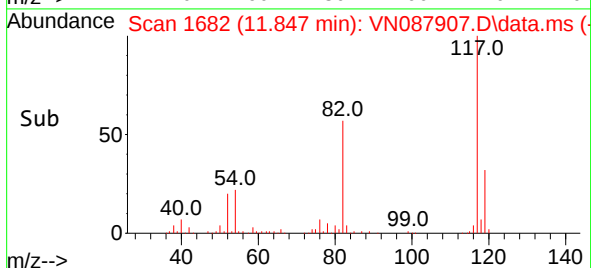
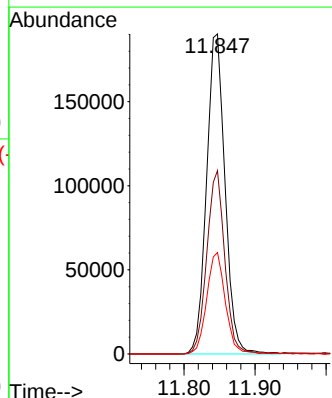
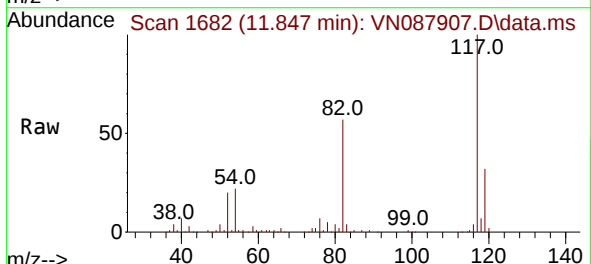
Instrument :
MSVOA_N
ClientSampleId :

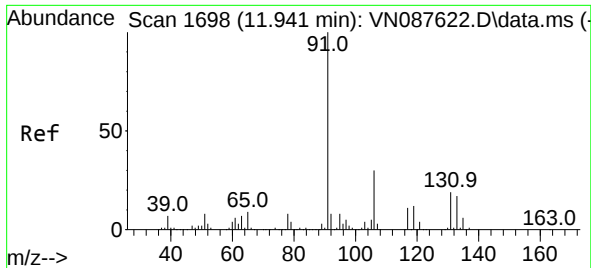
Tgt Ion: 95 Resp: 160096
Ion Ratio Lower Upper
95 100
174 76.4 0.0 138.4
176 72.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Tgt Ion: 117 Resp: 344231
Ion Ratio Lower Upper
117 100
82 57.3 47.4 71.2
119 31.7 24.3 36.5

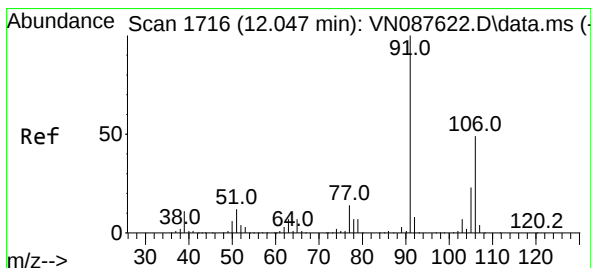
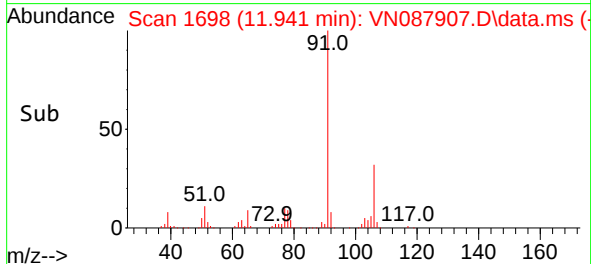
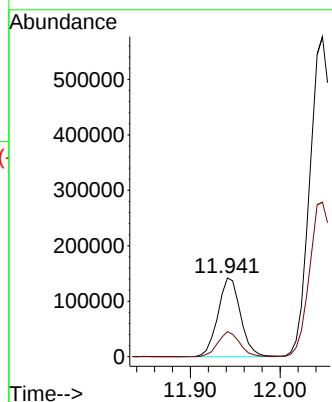
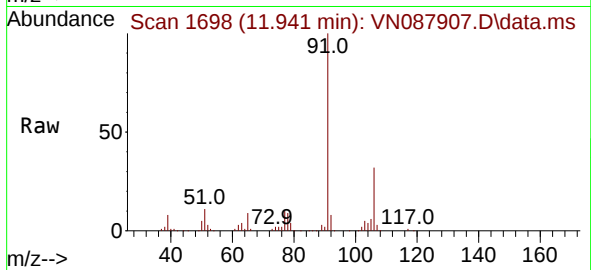




#67
Ethyl Benzene
Concen: 16.736 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

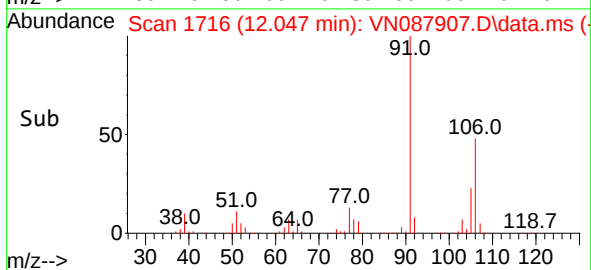
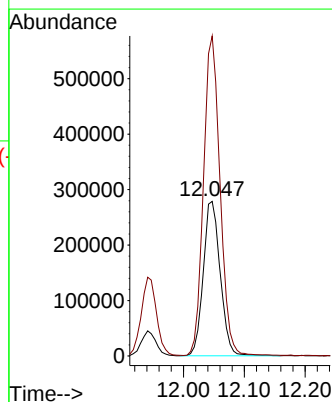
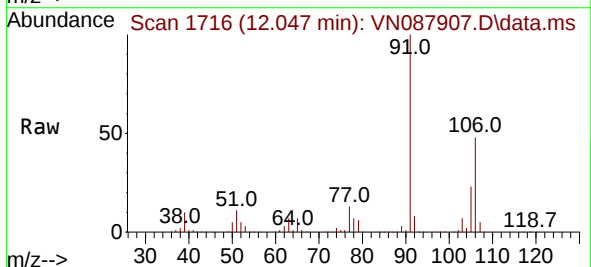
Instrument :
MSVOA_N
ClientSampleId :

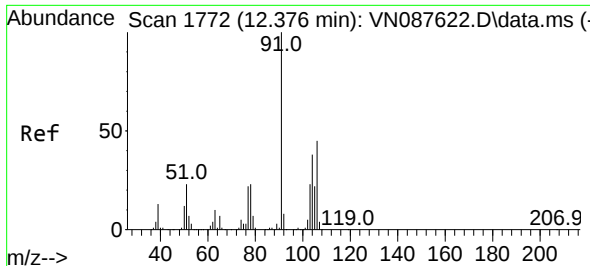
Tgt Ion: 91 Resp: 248163
Ion Ratio Lower Upper
91 100
106 32.0 24.1 36.1



#68
m/p-Xylenes
Concen: 99.128 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Tgt Ion:106 Resp: 539059
Ion Ratio Lower Upper
106 100
91 202.1 169.3 253.9

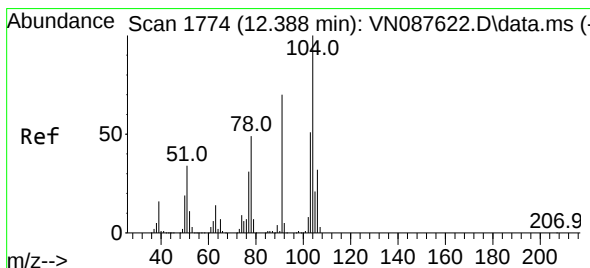
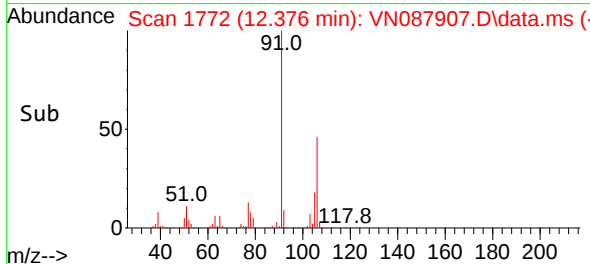
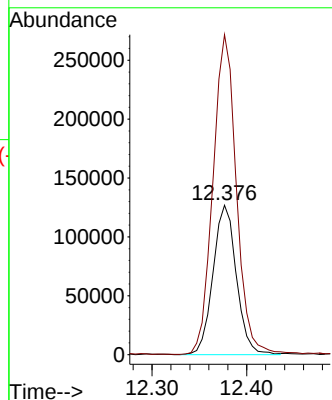
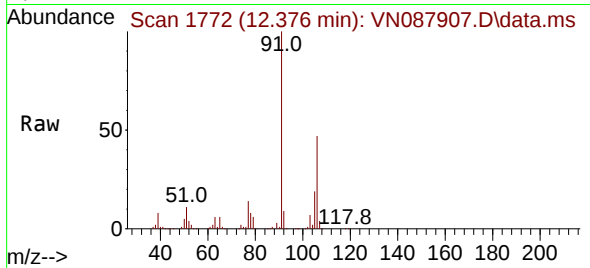




#69
o-Xylene
Concen: 40.885 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

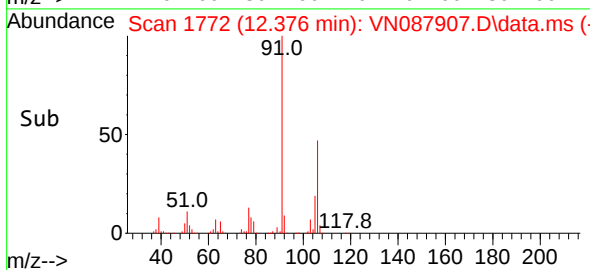
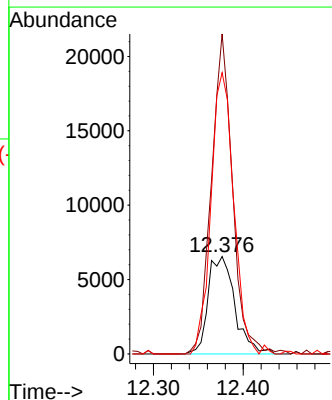
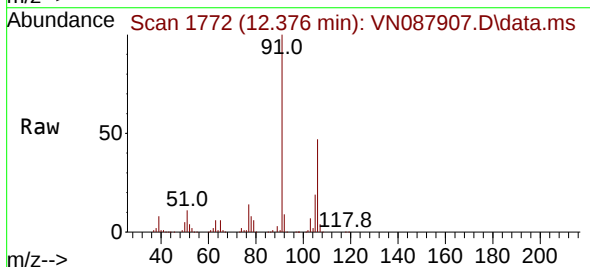
Instrument :
MSVOA_N
ClientSampleId :

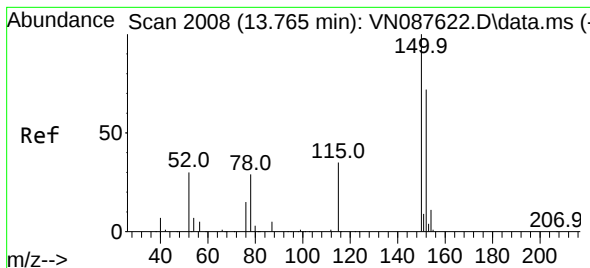
Tgt Ion:106 Resp: 217888
Ion Ratio Lower Upper
106 100
91 214.4 111.4 334.2



#70
Styrene
Concen: 1.517 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.012 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

Tgt Ion:104 Resp: 13541
Ion Ratio Lower Upper
104 100
78 260.7 42.2 63.2#
103 245.1 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN087907.D

Acq: 19 Sep 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

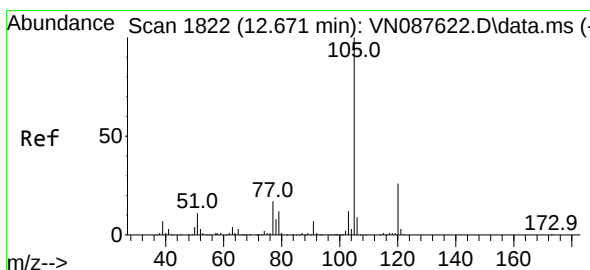
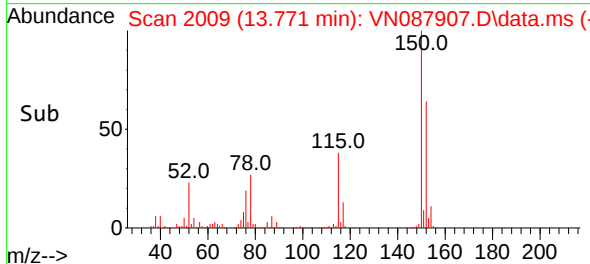
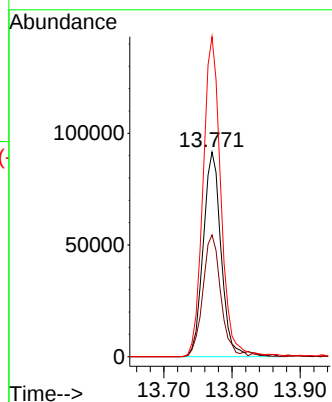
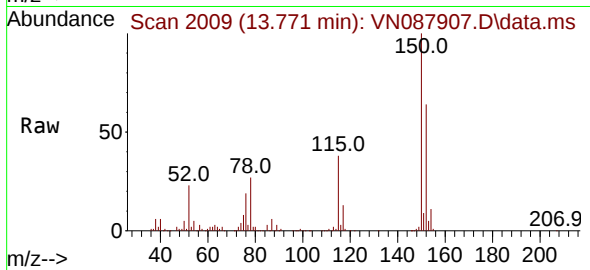
Tgt Ion:152 Resp: 168483

Ion Ratio Lower Upper

152 100

115 60.3 32.3 96.8

150 153.9 0.0 351.0



#73

Isopropylbenzene

Concen: 0.234 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087907.D

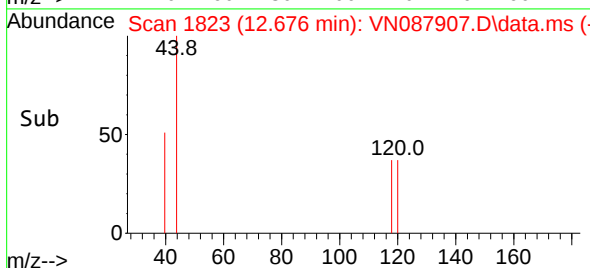
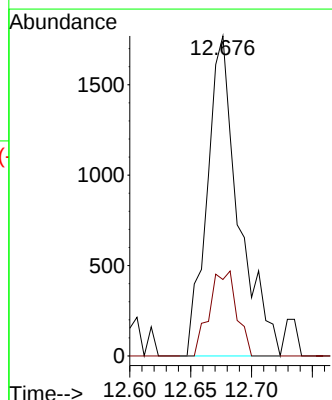
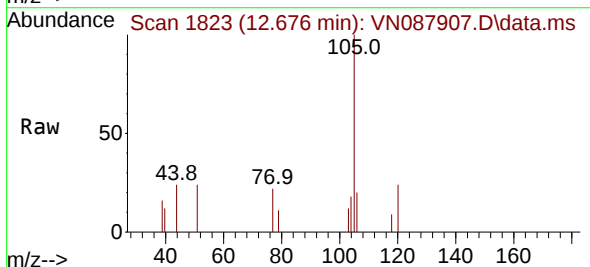
Acq: 19 Sep 2025 13:24

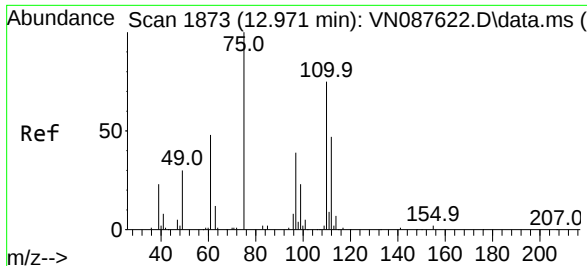
Tgt Ion:105 Resp: 3187

Ion Ratio Lower Upper

105 100

120 23.0 12.8 38.3

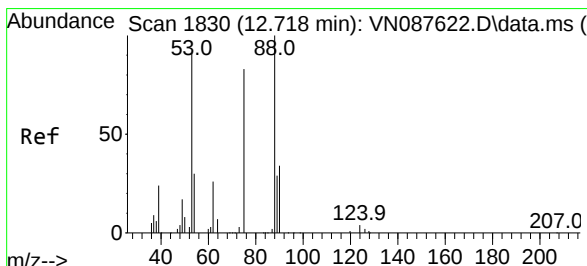
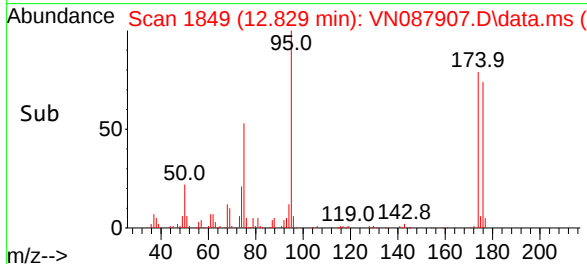
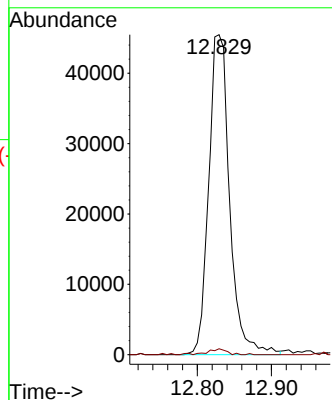
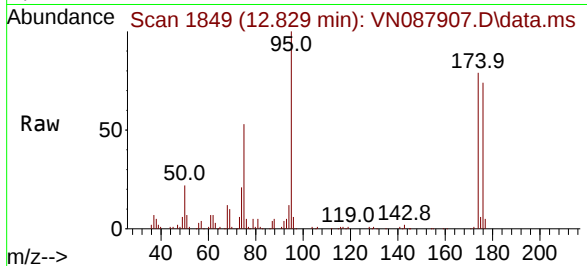




#76
1,2,3-Trichloropropane
Concen: 22.553 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

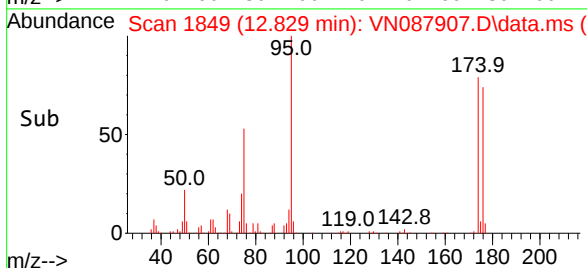
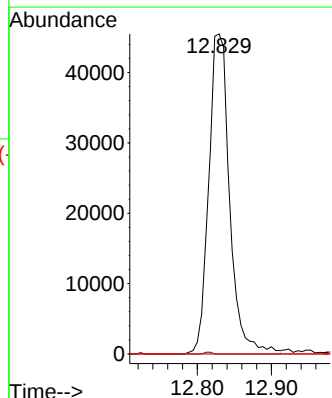
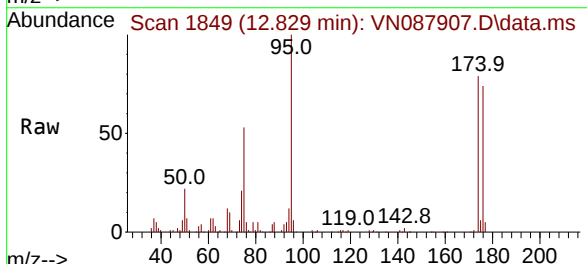
Instrument :
MSVOA_N
ClientSampleId :

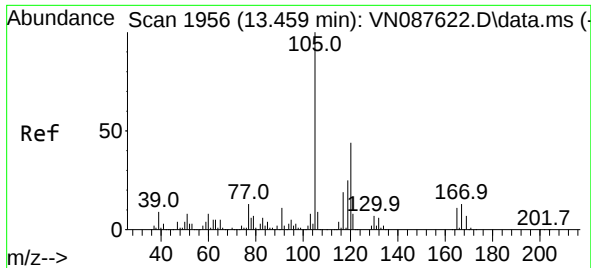
Tgt Ion: 75 Resp: 89109
Ion Ratio Lower Upper
75 100
77 1.6 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.708 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087907.D
Acq: 19 Sep 2025 13:24

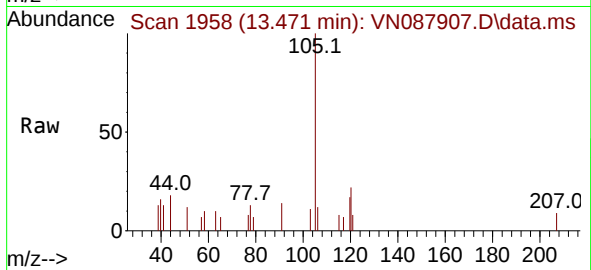
Tgt Ion: 75 Resp: 89109
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.0 35.6 53.4#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.352 ug/l
 RT: 13.471 min Scan# 1958
 Delta R.T. 0.012 min
 Lab File: VN087907.D
 Acq: 19 Sep 2025 13:24

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:105 Resp: 4075
 Ion Ratio Lower Upper
 105 100
 120 58.6 22.0 66.0

