

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050925\
 Data File : VN086560.D
 Acq On : 09 May 2025 14:19
 Operator : JC\MD
 Sample : Q1980-05
 Misc : 1.19g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3837

Quant Time: May 09 23:28:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

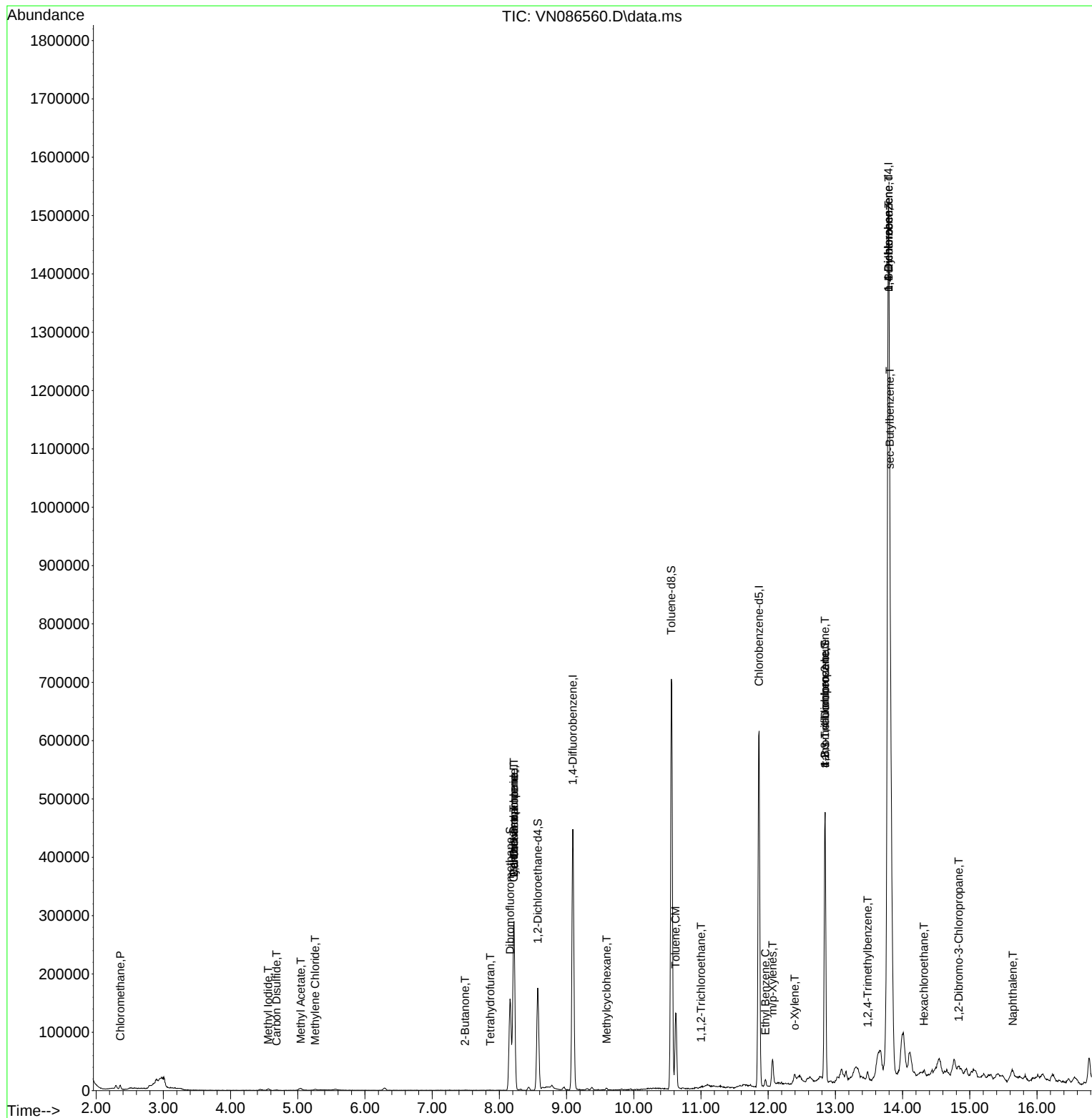
Internal Standards						
1) Pentafluorobenzene	8.218	168	217275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	404867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	373550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167962	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	140574	44.617	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.240%		
35) Dibromofluoromethane	8.159	113	116463	61.980	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	123.960%		
50) Toluene-d8	10.559	98	509502	50.735	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.460%		
62) 4-Bromofluorobenzene	12.847	95	171550	46.834	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.660%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	6476	1.730	ug/l	99
10) Methyl Iodide	4.559	142	4422	1.680	ug/l	96
16) Acetone	4.436	43	3871	Below Cal		98
17) Carbon Disulfide	4.683	76	1963	0.256	ug/l #	74
18) Methyl Acetate	5.047	43	8371	2.213	ug/l	93
20) Methylene Chloride	5.259	84	1031	0.354	ug/l #	65
25) 2-Butanone	7.489	43	581	0.296	ug/l #	48
29) Tetrahydrofuran	7.865	42	433	0.330	ug/l #	32
31) Cyclohexane	8.212	56	5138	1.006	ug/l #	4
36) 1,1-Dichloropropene	8.218	75	17018	4.534	ug/l #	49
38) Carbon Tetrachloride	8.218	117	21524	6.022	ug/l #	15
39) Methylcyclohexane	9.594	83	1200	0.269	ug/l #	88
43) Isopropyl Acetate	8.653	43	3983	Below Cal	#	55
52) Toluene	10.624	92	59105	7.877	ug/l	99
55) 1,1,2-Trichloroethane	11.000	97	791	0.293	ug/l #	16
67) Ethyl Benzene	11.959	91	9287	0.617	ug/l	100
68) m/p-Xylenes	12.065	106	14680	2.604	ug/l	90
69) o-Xylene	12.394	106	4175	0.749	ug/l	91
76) 1,2,3-Trichloropropane	12.847	75	85322	21.526	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85322	51.698	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.482	105	6828	0.596	ug/l	73
85) sec-Butylbenzene	13.812	105	62985	4.660	ug/l	81
88) 1,4-Dichlorobenzene	13.794	146	5650	0.980	ug/l #	18
89) n-Butylbenzene	13.794	91	135836	13.756	ug/l #	46
90) Hexachloroethane	14.317	117	1094	0.584	ug/l #	19
92) 1,2-Dibromo-3-Chloropr...	14.835	75	546	0.685	ug/l #	11
95) Naphthalene	15.641	128	4870	0.517	ug/l #	42

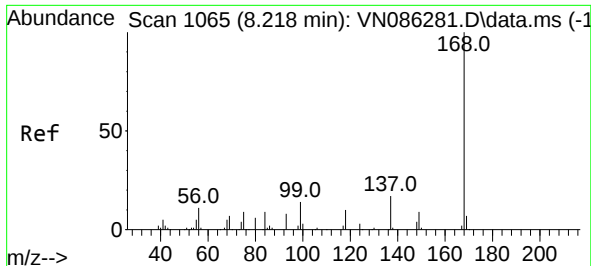
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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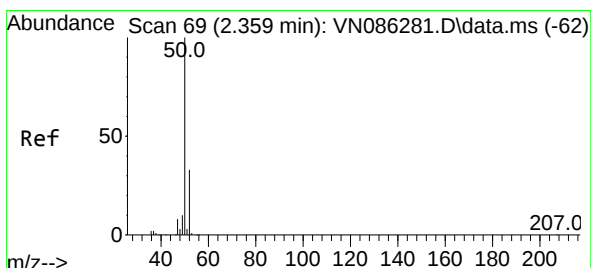
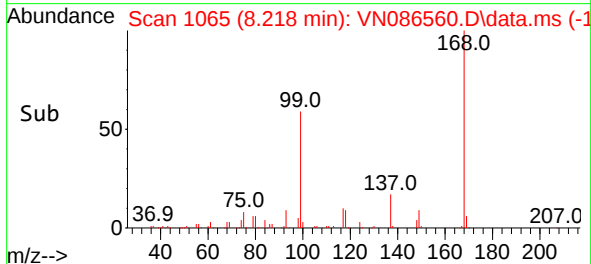
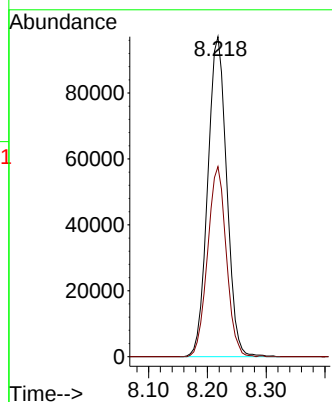
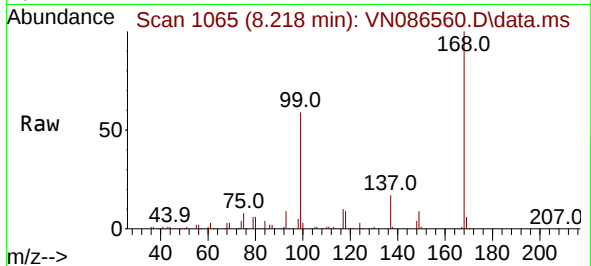




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

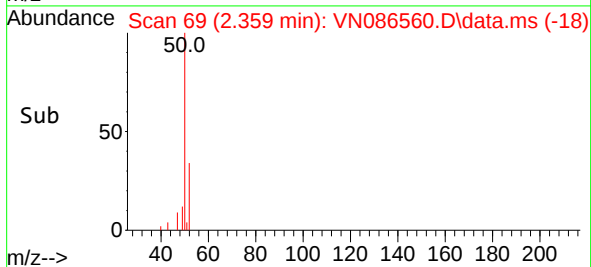
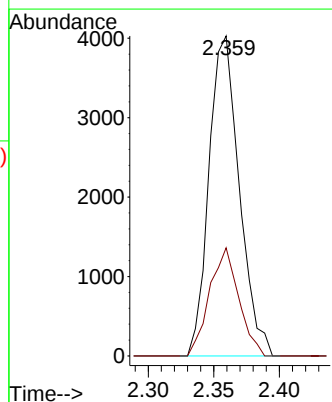
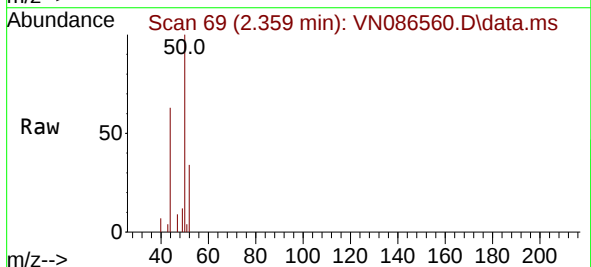
Instrument :
MSVOA_N
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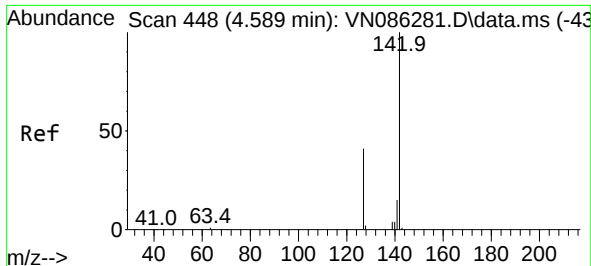
Tgt Ion:168 Resp: 217275
Ion Ratio Lower Upper
168 100
99 59.4 52.5 78.7



#3
Chloromethane
Concen: 1.730 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

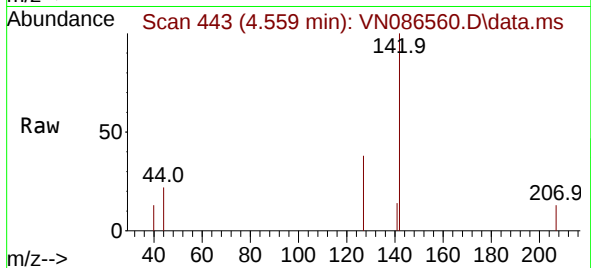
Tgt Ion: 50 Resp: 6476
Ion Ratio Lower Upper
50 100
52 33.8 26.5 39.7





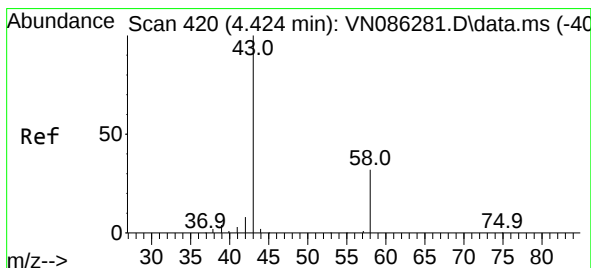
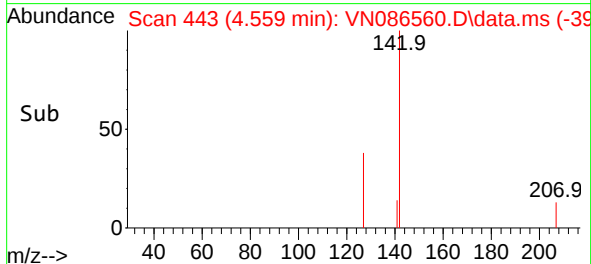
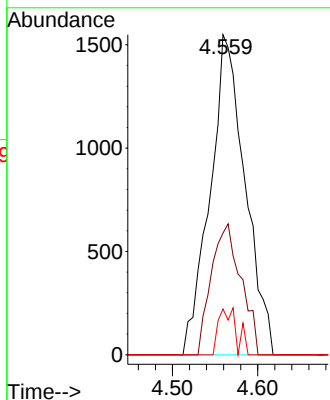
#10
Methyl Iodide
Concen: 1.680 ug/l
RT: 4.559 min Scan# 448
Delta R.T. -0.029 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Instrument :
MSVOA_N
ClientSampleId :
3837



Tgt Ion:142 Resp: 4422

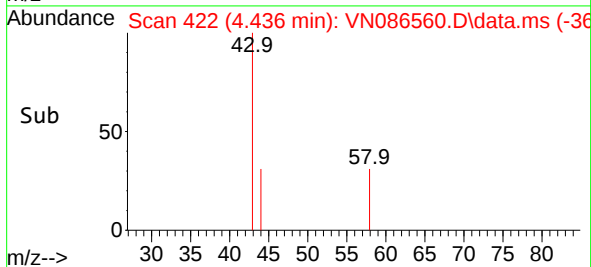
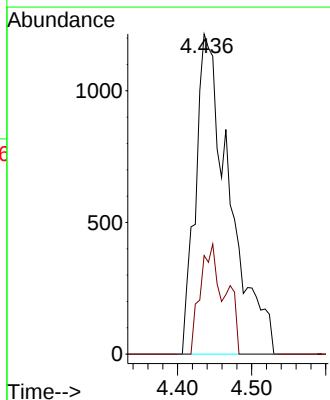
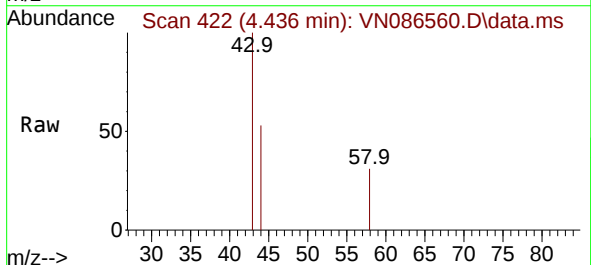
Ion	Ratio	Lower	Upper
142	100		
127	38.0	32.7	49.1
141	14.3	11.7	17.5

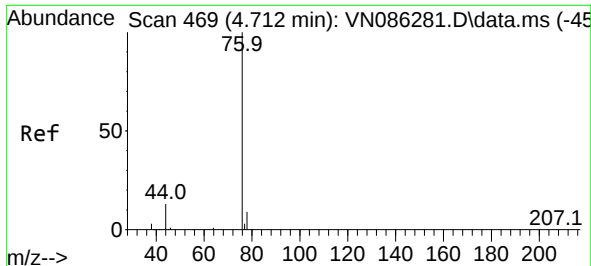


#16
Acetone
Concen: Below Cal
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 43 Resp: 3871

Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.3	37.9

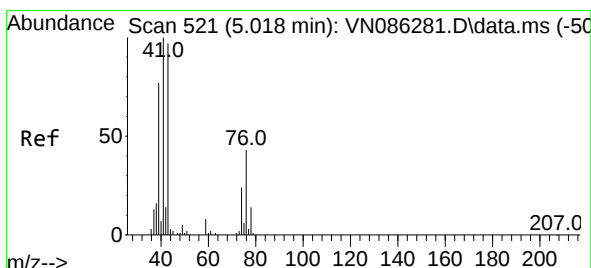
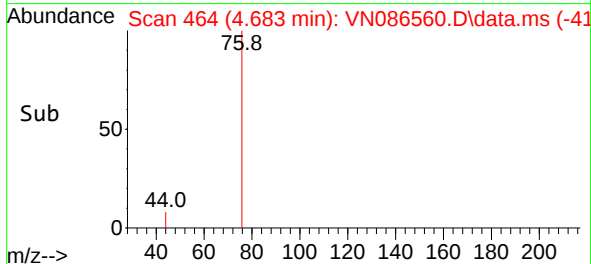
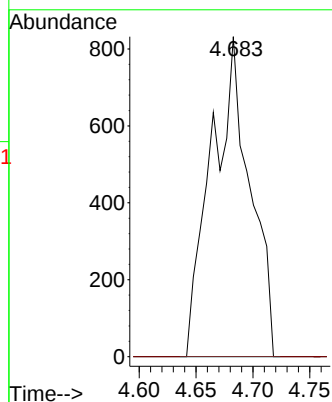
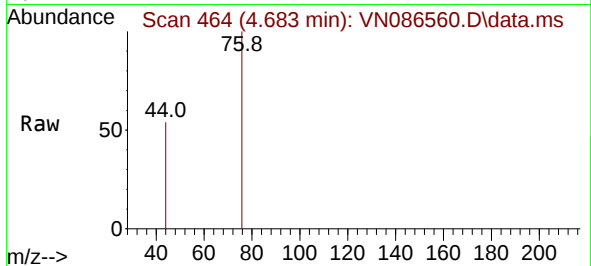




#17
Carbon Disulfide
Concen: 0.256 ug/l
RT: 4.683 min Scan# 41
Delta R.T. -0.029 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

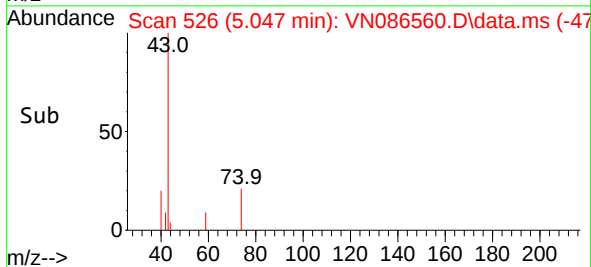
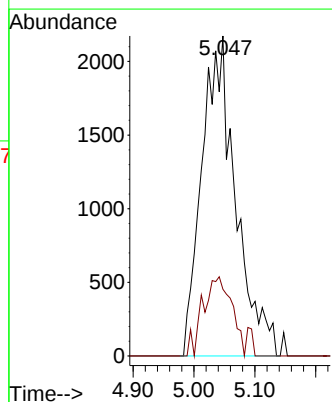
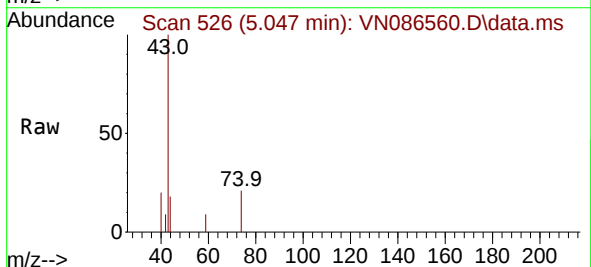
Instrument :
MSVOA_N
ClientSampleId :
3837

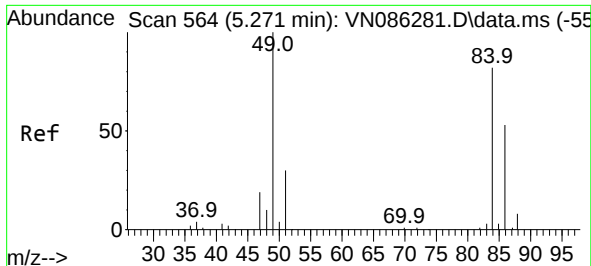
Tgt Ion: 76 Resp: 1963
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 2.213 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.029 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 43 Resp: 8371
Ion Ratio Lower Upper
43 100
74 21.1 19.8 29.6

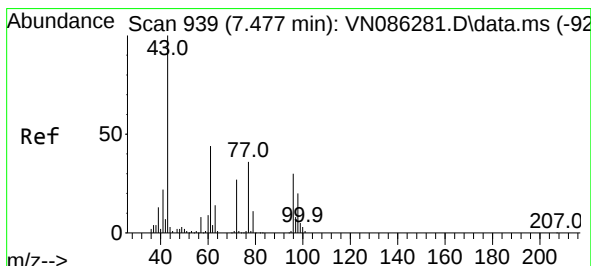
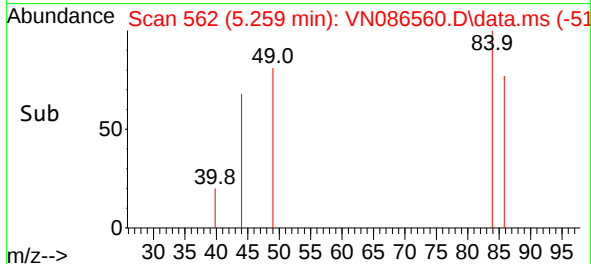
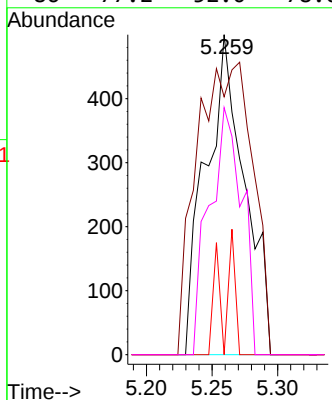
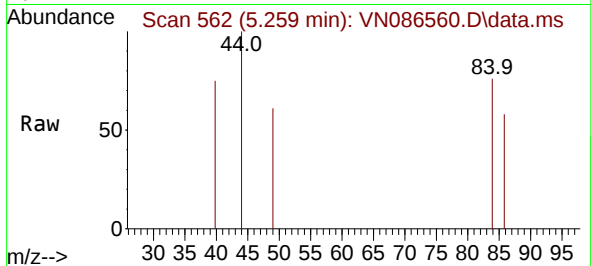




#20
Methylene Chloride
Concen: 0.354 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

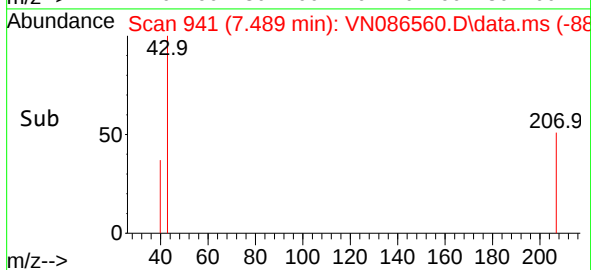
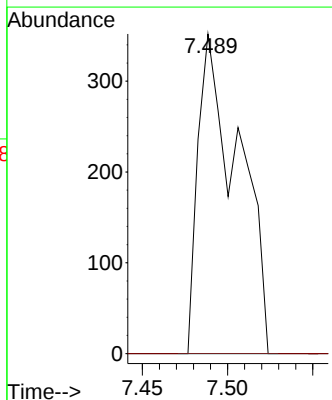
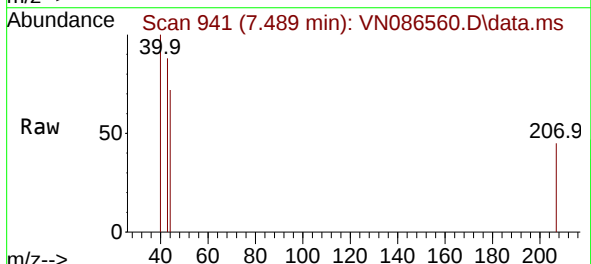
Instrument :
MSVOA_N
ClientSampleId :
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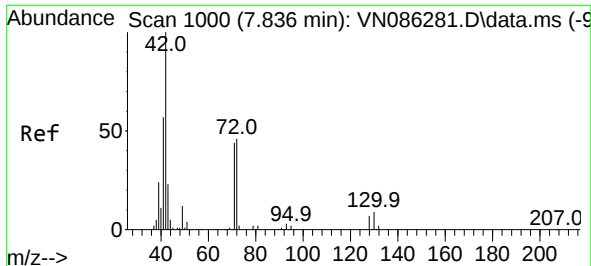
Tgt Ion:	84	Resp:	1031
Ion	Ratio	Lower	Upper
84	100		
49	80.6	98.2	147.2#
51	0.0	29.8	44.6#
86	77.2	52.0	78.0



#25
2-Butanone
Concen: 0.296 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion:	43	Resp:	581
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.330 ug/l

RT: 7.865 min Scan# 1064

Delta R.T. 0.029 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

3837

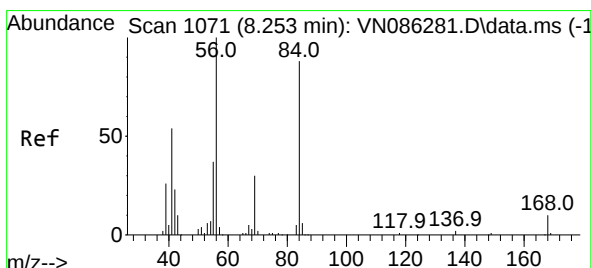
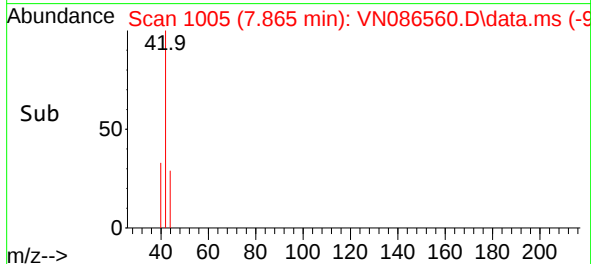
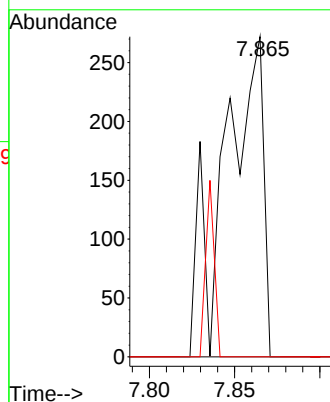
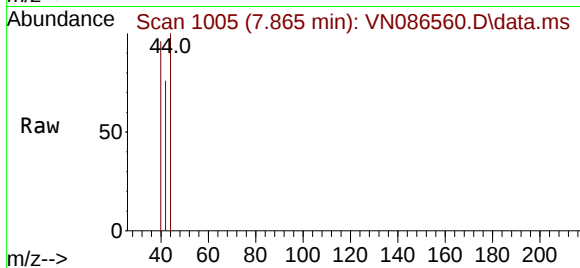
Tgt Ion: 42 Resp: 433

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 1.006 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.041 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

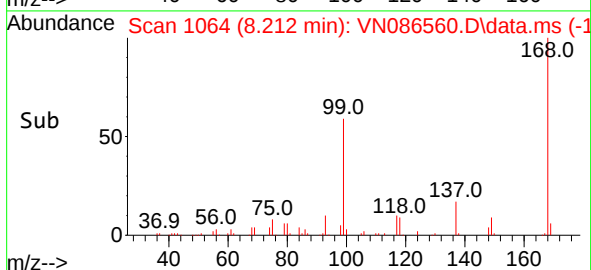
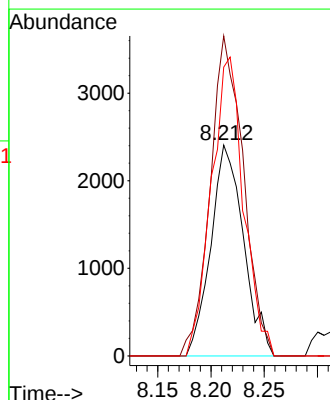
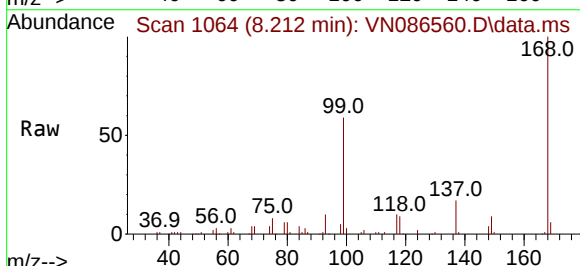
Tgt Ion: 56 Resp: 5138

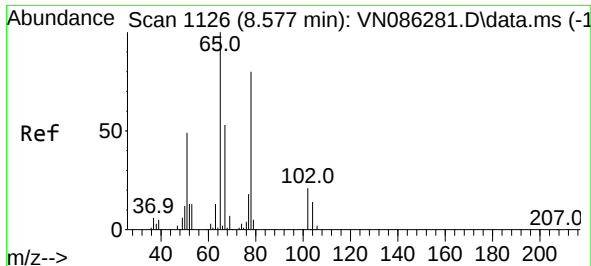
Ion Ratio Lower Upper

56 100

69 151.8 24.2 36.2#

84 137.0 70.3 105.5#

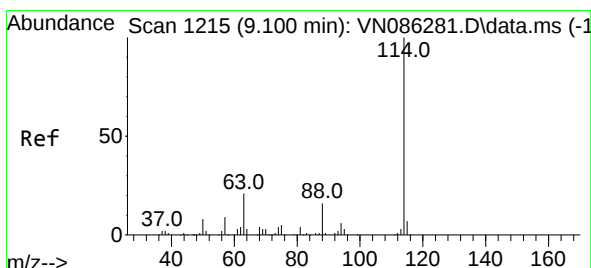
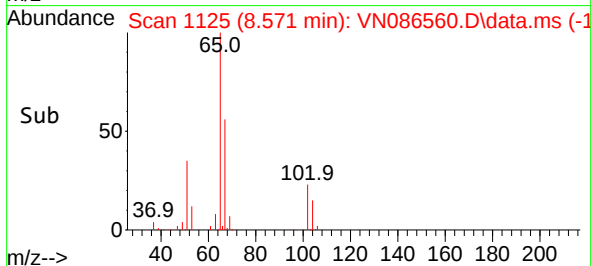
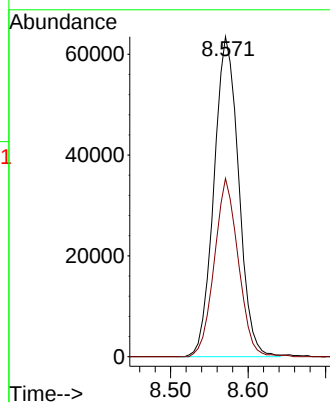
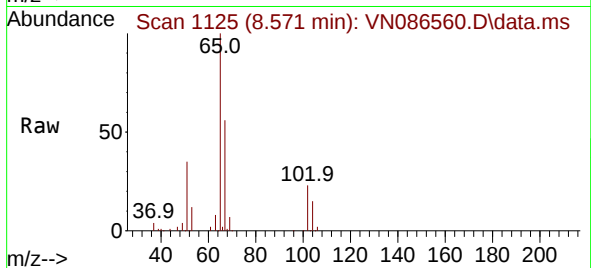




#33
1,2-Dichloroethane-d4
Concen: 44.617 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

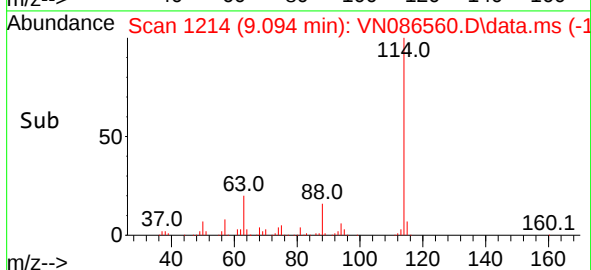
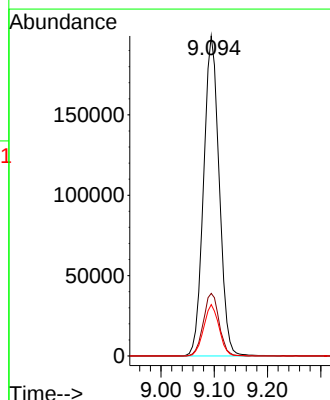
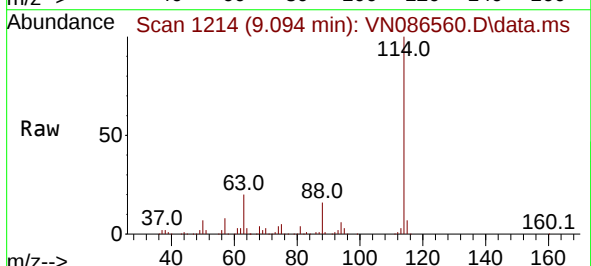
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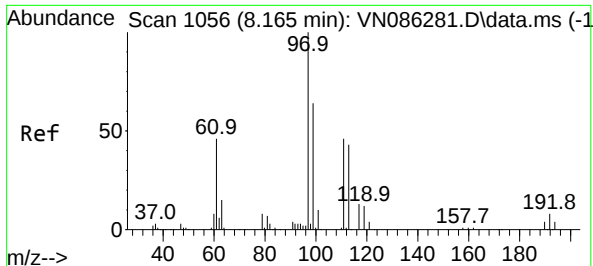
Tgt Ion: 65 Resp: 140574
Ion Ratio Lower Upper
65 100
67 54.1 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 114 Resp: 404867
Ion Ratio Lower Upper
114 100
63 19.5 0.0 42.6
88 16.0 0.0 31.8

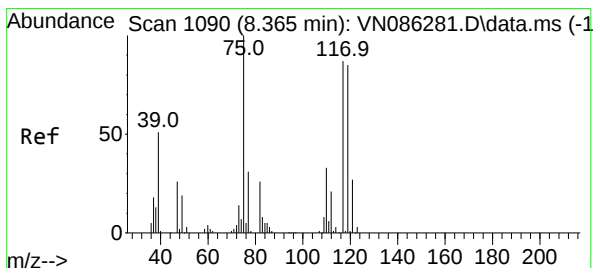
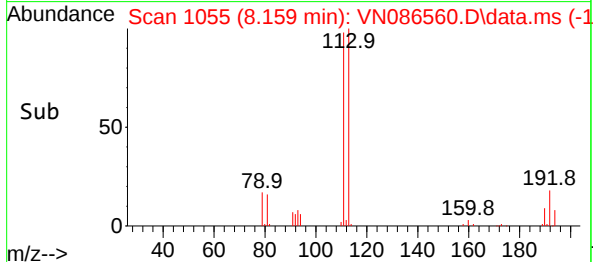
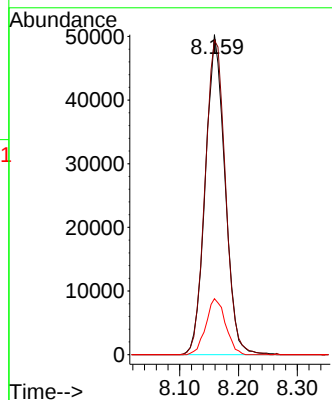
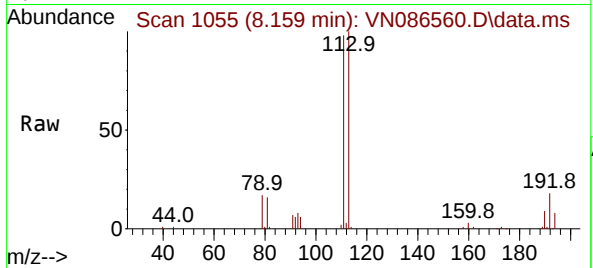




#35
Dibromofluoromethane
Concen: 61.980 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

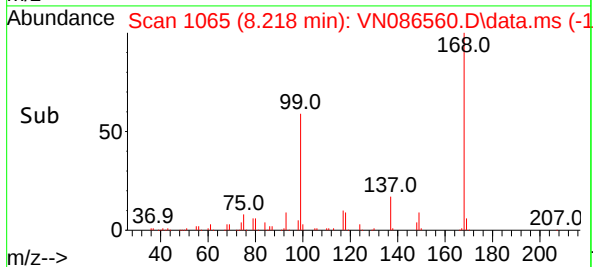
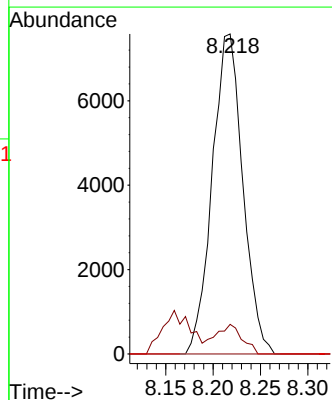
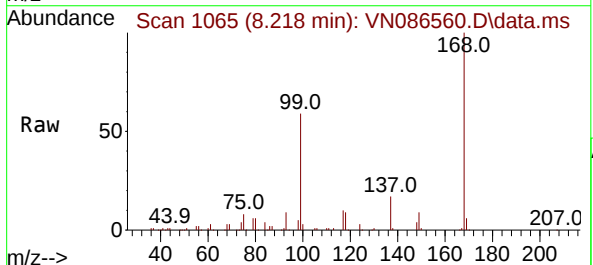
Instrument :
MSVOA_N
ClientSampleId :
3837

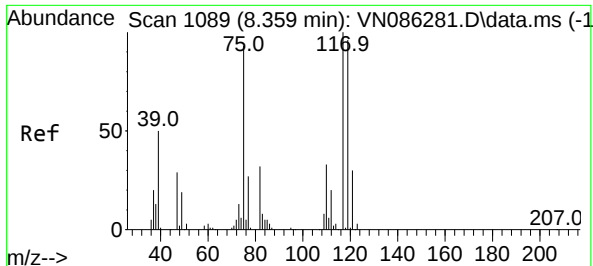
Tgt Ion:113 Resp: 116463
Ion Ratio Lower Upper
113 100
111 102.0 83.4 125.0
192 17.5 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.534 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 75 Resp: 17018
Ion Ratio Lower Upper
75 100
110 7.5 16.8 50.4#
77 0.0 24.9 37.3#

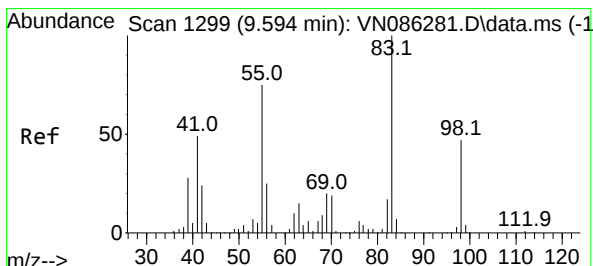
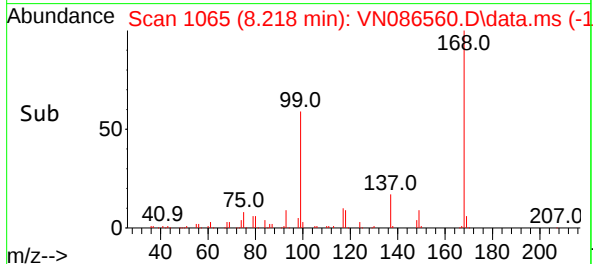
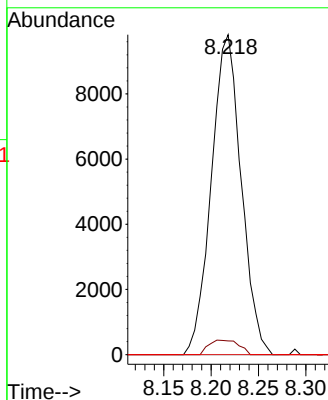
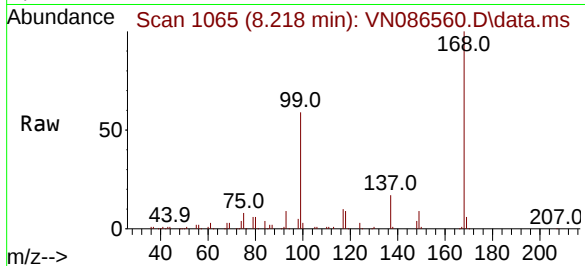




#38
Carbon Tetrachloride
Concen: 6.022 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

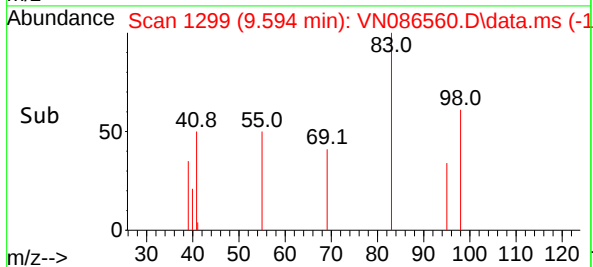
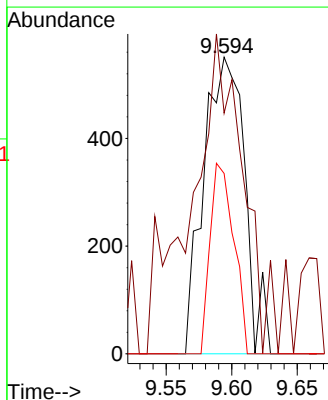
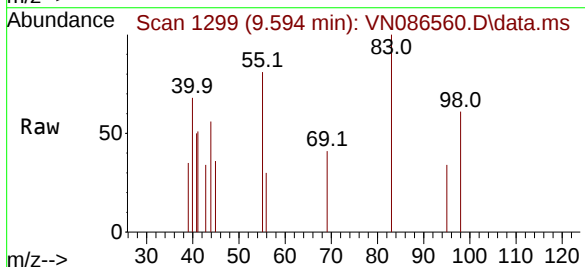
Instrument :
MSVOA_N
ClientSampleId :
3837

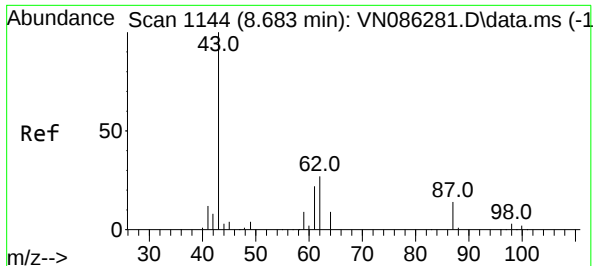
Tgt Ion:117 Resp: 21524
Ion Ratio Lower Upper
117 100
119 4.3 76.8 115.2#
121 0.0 23.8 35.8#



#39
Methylcyclohexane
Concen: 0.269 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 83 Resp: 1200
Ion Ratio Lower Upper
83 100
55 81.1 59.8 89.8
98 60.8 37.9 56.9#





#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.653 min Scan# 1144

Delta R.T. -0.030 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

3837

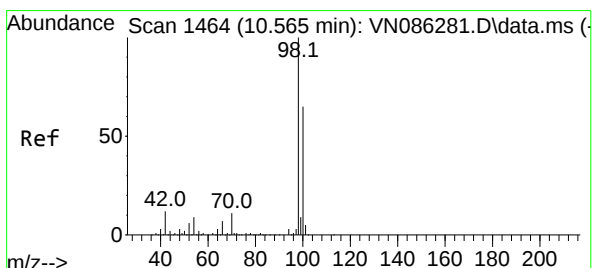
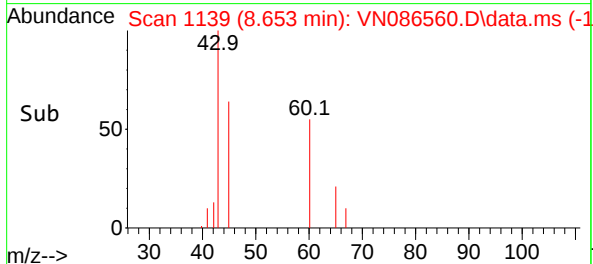
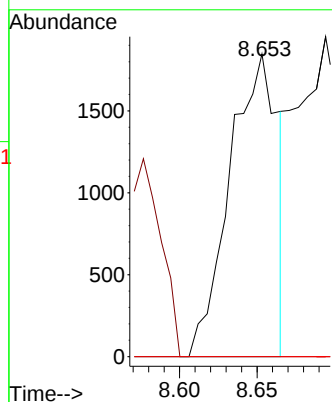
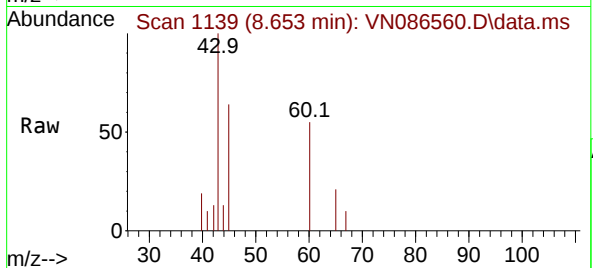
Tgt Ion: 43 Resp: 3983

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

87 0.0 10.5 15.7#



#50

Toluene-d8

Concen: 50.735 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN086560.D

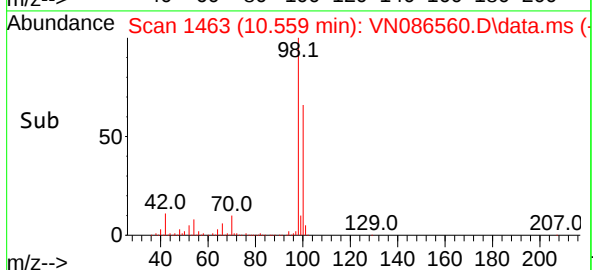
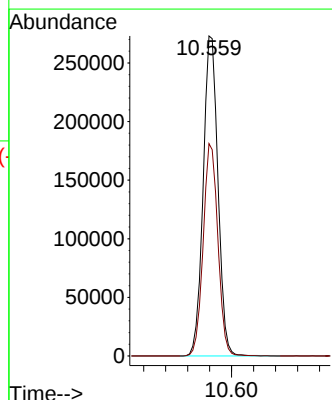
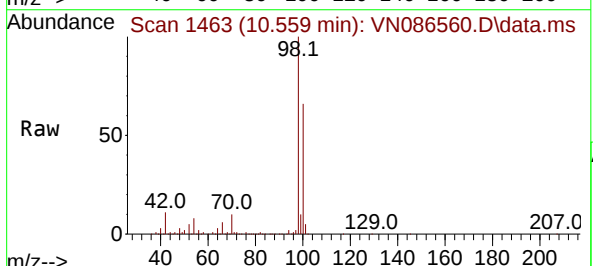
Acq: 09 May 2025 14:19

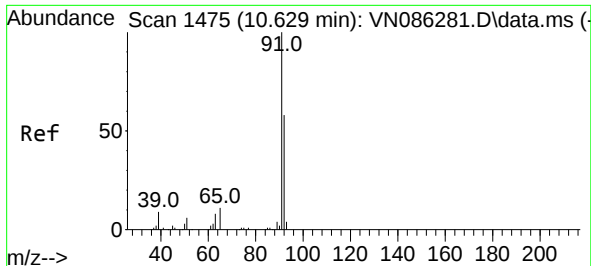
Tgt Ion: 98 Resp: 509502

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7

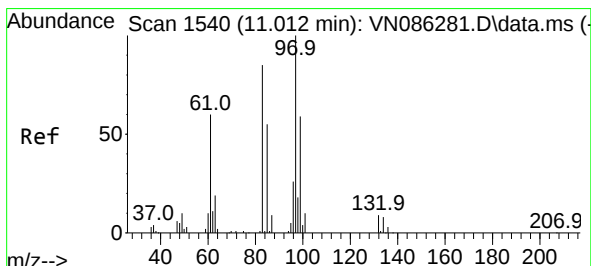
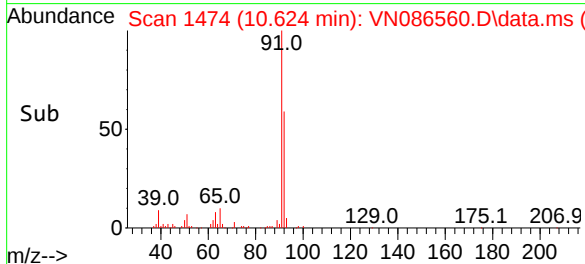
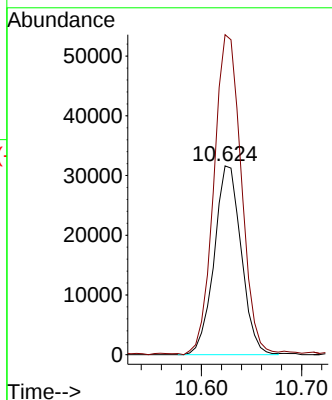
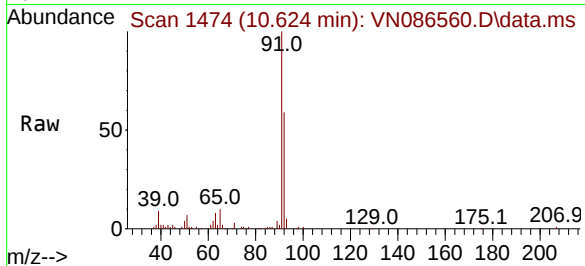




#52
Toluene
Concen: 7.877 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

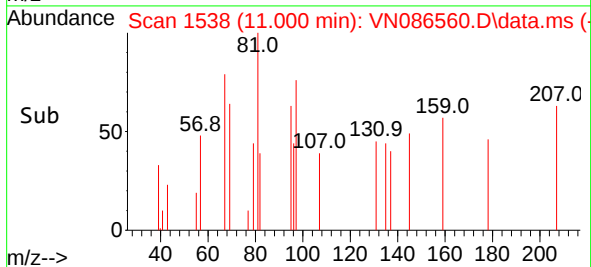
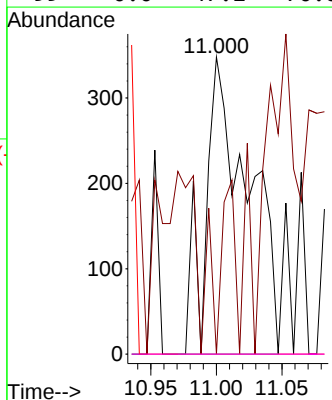
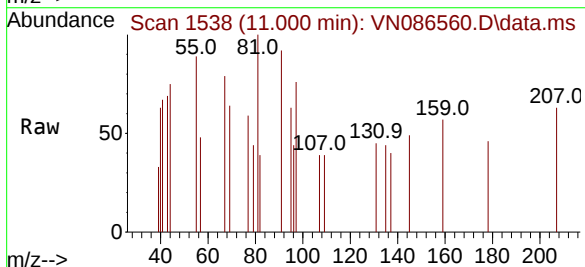
Instrument :
MSVOA_N
ClientSampleId :
3837

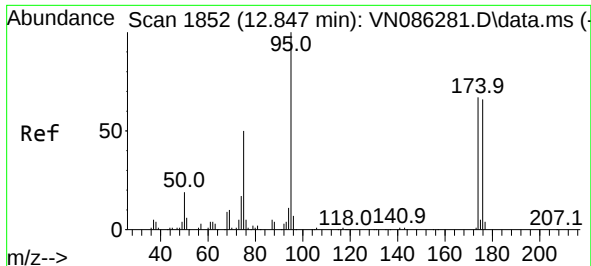
Tgt Ion: 92 Resp: 59105
Ion Ratio Lower Upper
92 100
91 170.8 137.3 205.9



#55
1,1,2-Trichloroethane
Concen: 0.293 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. -0.012 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 97 Resp: 791
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 43.9 65.9#
99 0.0 47.2 70.8#

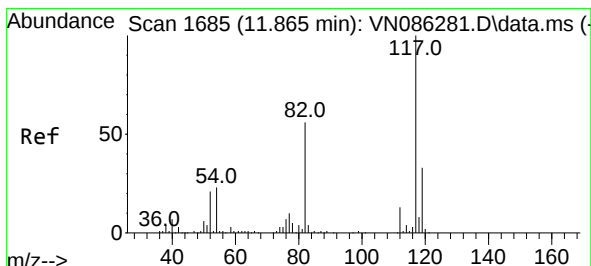
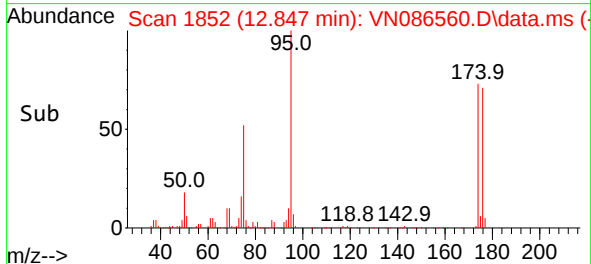
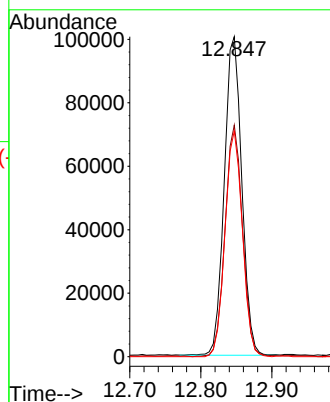
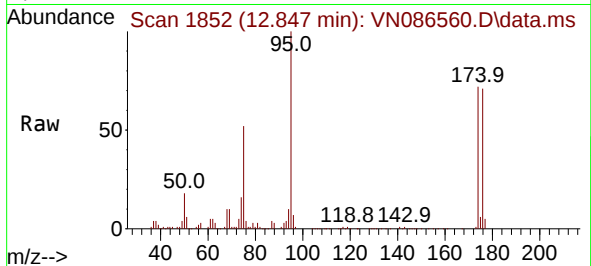




#62
4-Bromofluorobenzene
Concen: 46.834 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

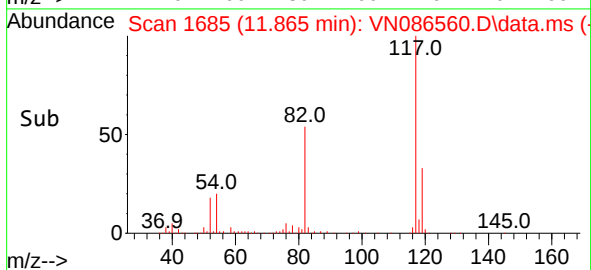
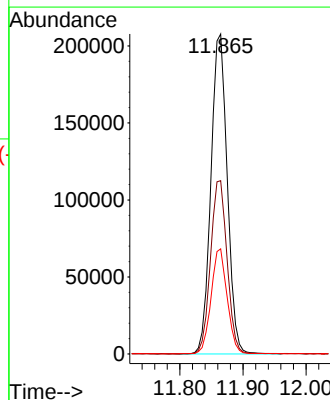
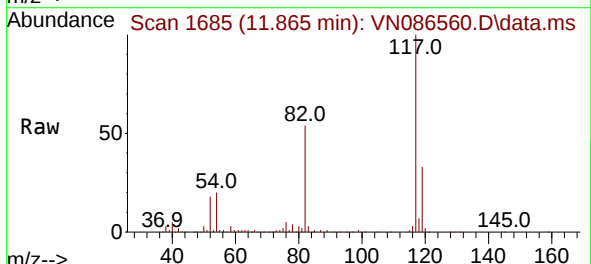
Instrument :
MSVOA_N
ClientSampleId :
3837

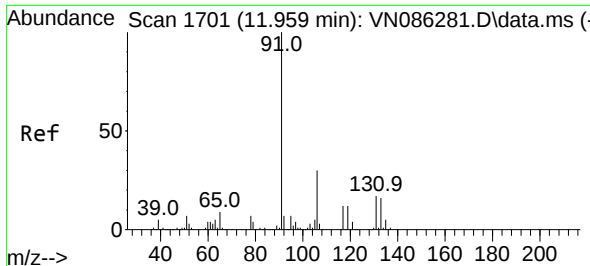
Tgt Ion: 95 Resp: 171550
Ion Ratio Lower Upper
95 100
174 72.9 0.0 133.4
176 70.3 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 117 Resp: 373550
Ion Ratio Lower Upper
117 100
82 54.1 44.7 67.1
119 32.8 26.4 39.6

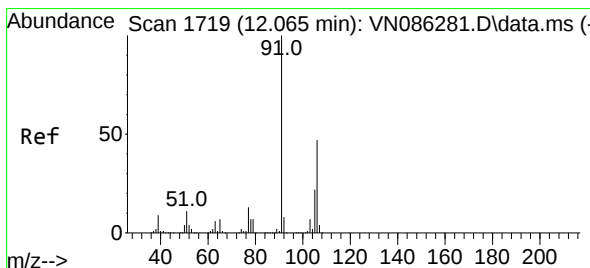
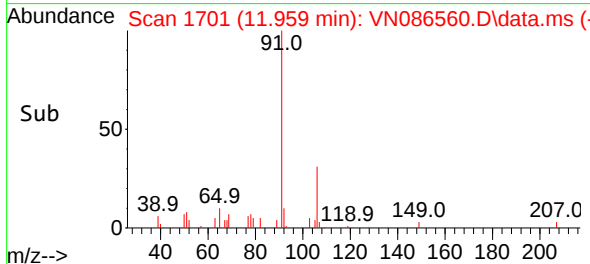
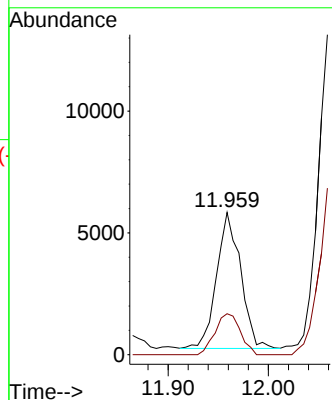
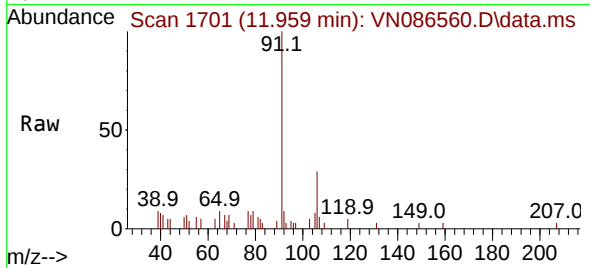




#67
Ethyl Benzene
Concen: 0.617 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

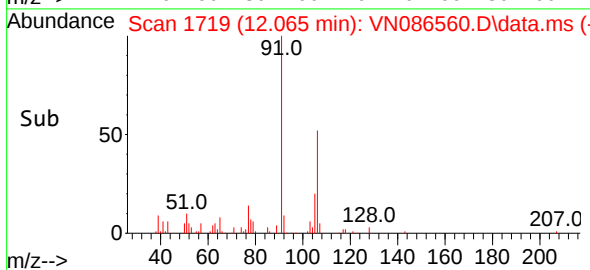
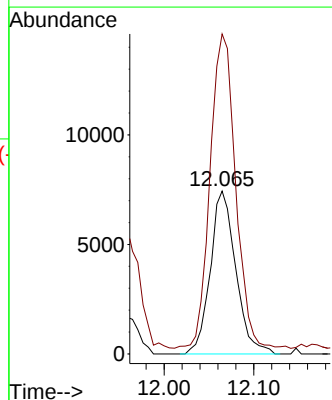
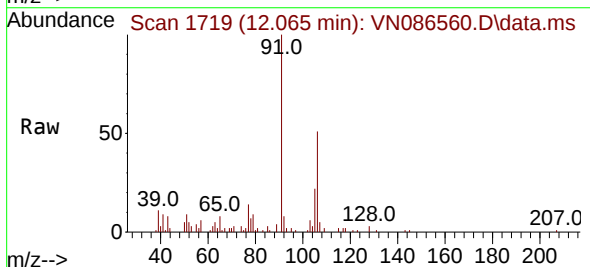
Instrument :
MSVOA_N
ClientSampleId :
3837

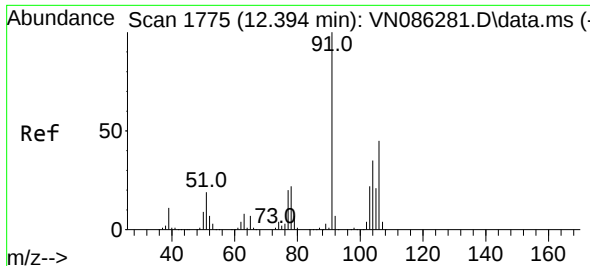
Tgt Ion: 91 Resp: 9287
Ion Ratio Lower Upper
91 100
106 30.2 24.3 36.5



#68
m/p-Xylenes
Concen: 2.604 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion:106 Resp: 14680
Ion Ratio Lower Upper
106 100
91 192.6 166.5 249.7

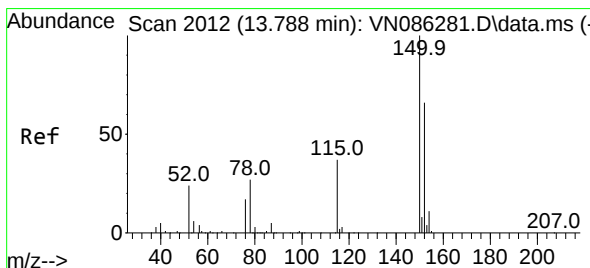
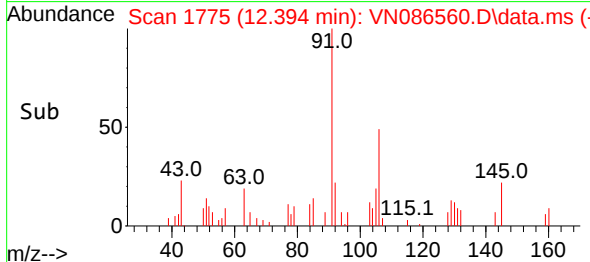
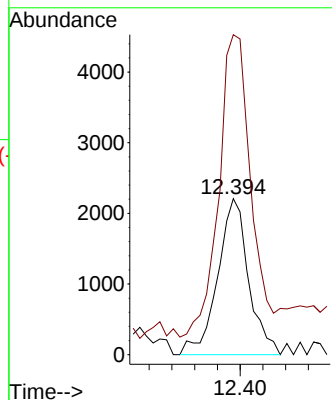
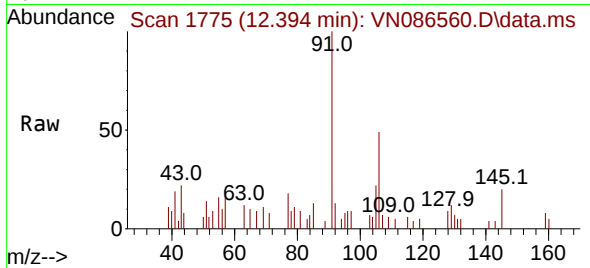




#69
o-Xylene
Concen: 0.749 ug/l
RT: 12.394 min Scan# 1175
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

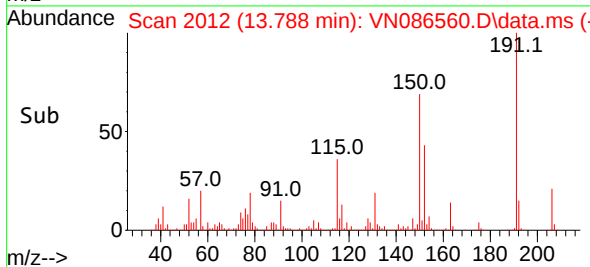
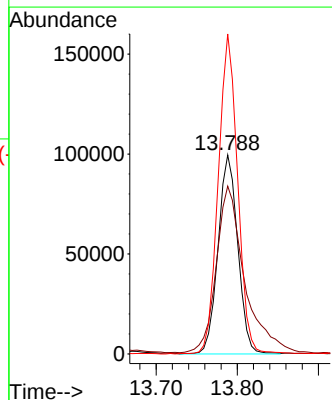
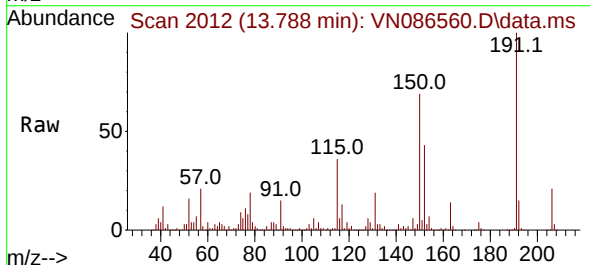
Instrument :
MSVOA_N
ClientSampleId :
3837

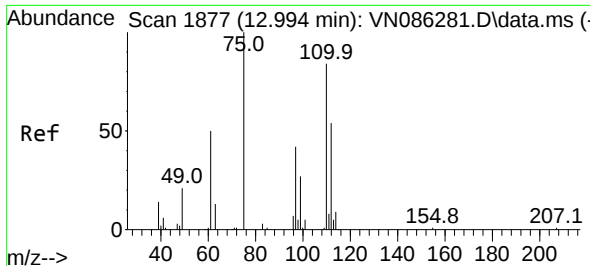
Tgt Ion:106 Resp: 4175
Ion Ratio Lower Upper
106 100
91 205.5 109.7 329.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion:152 Resp: 167962
Ion Ratio Lower Upper
152 100
115 120.2 31.9 95.9#
150 159.1 0.0 352.0

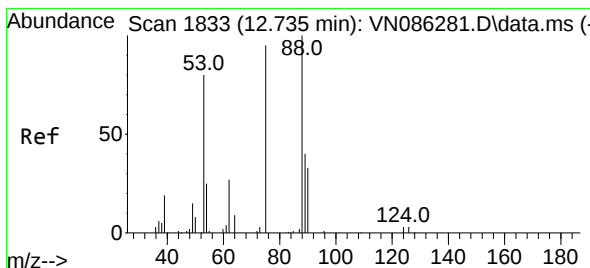
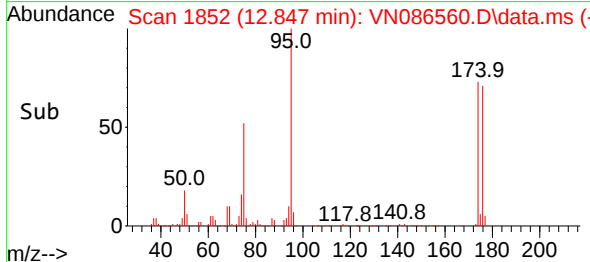
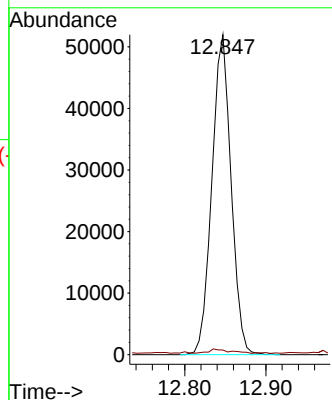
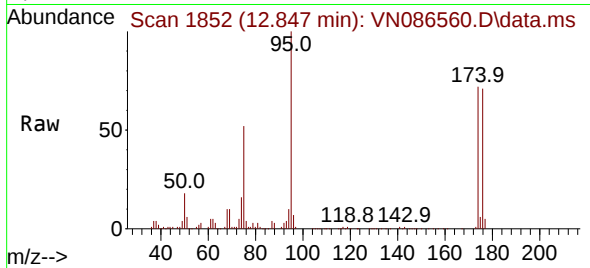




#76
1,2,3-Trichloropropane
Concen: 21.526 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

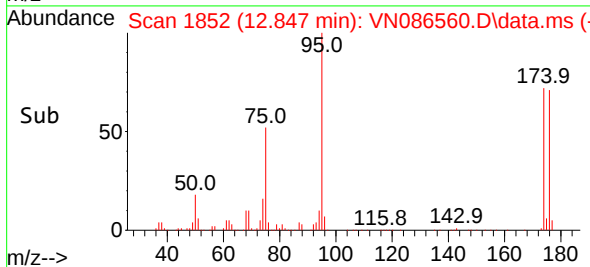
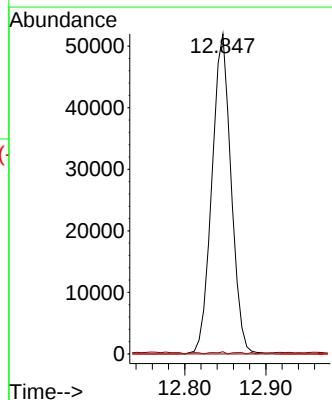
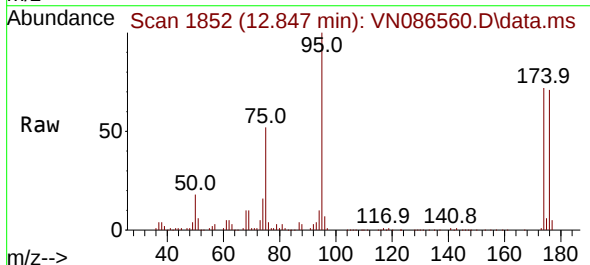
Instrument :
MSVOA_N
ClientSampleId :
3837

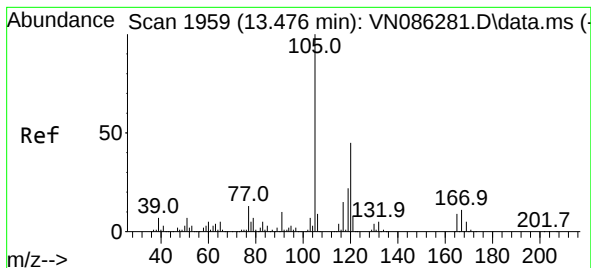
Tgt Ion: 75 Resp: 85322
Ion Ratio Lower Upper
75 100
77 1.5 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 51.698 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 75 Resp: 85322
Ion Ratio Lower Upper
75 100
53 0.4 79.2 118.8#
89 0.0 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.596 ug/l

RT: 13.482 min Scan# 1959

Delta R.T. 0.006 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

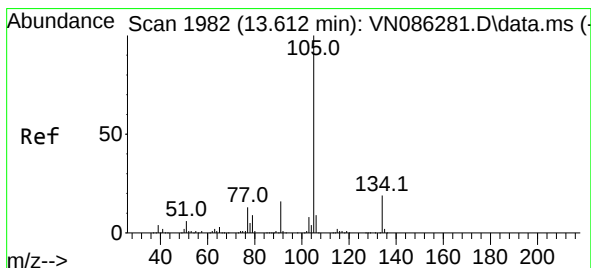
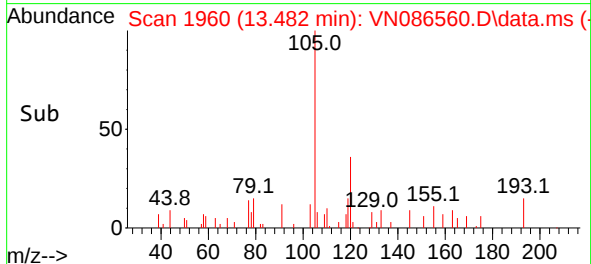
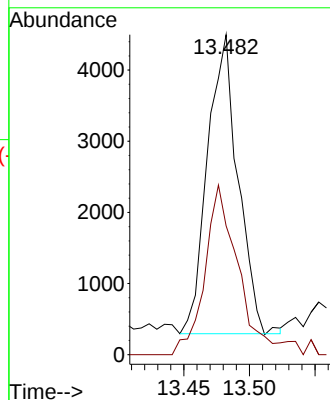
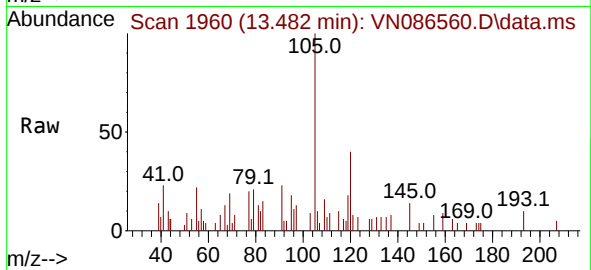
3837

Tgt Ion:105 Resp: 6828

Ion Ratio Lower Upper

105 100

120 62.8 22.4 67.3



#85

sec-Butylbenzene

Concen: 4.660 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.200 min

Lab File: VN086560.D

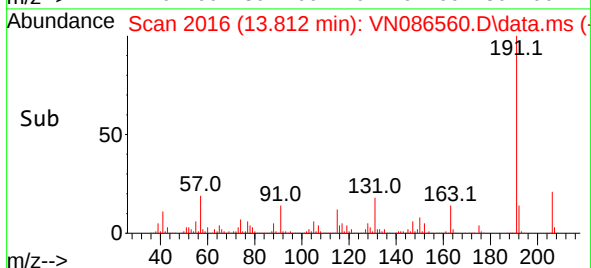
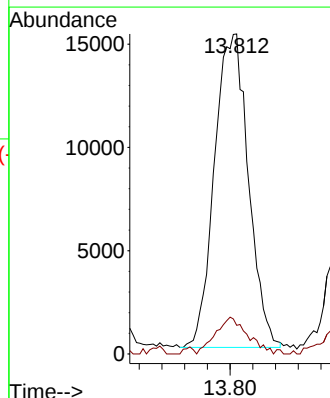
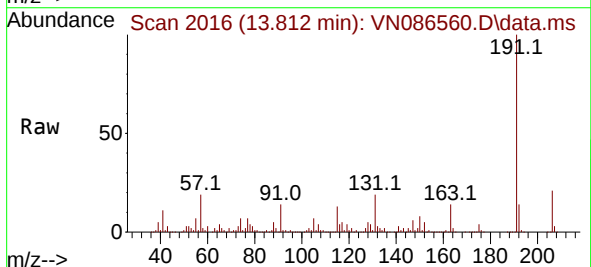
Acq: 09 May 2025 14:19

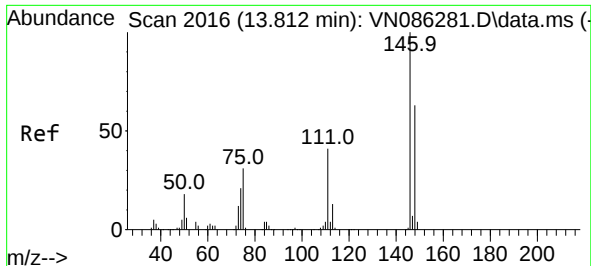
Tgt Ion:105 Resp: 62985

Ion Ratio Lower Upper

105 100

134 11.0 9.7 29.1

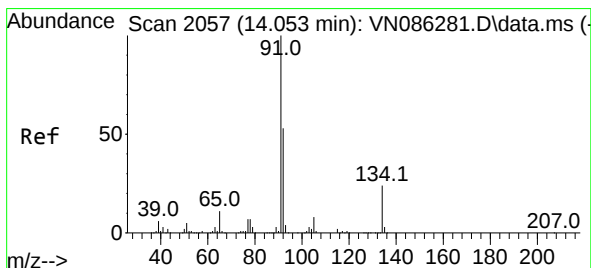
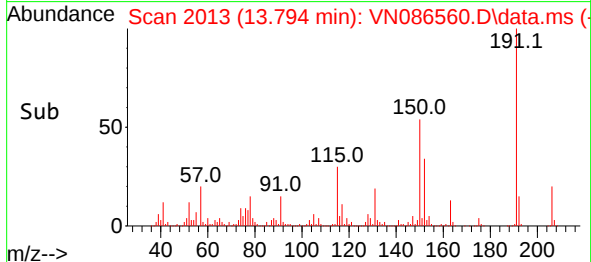
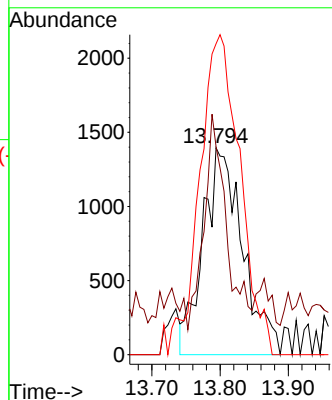
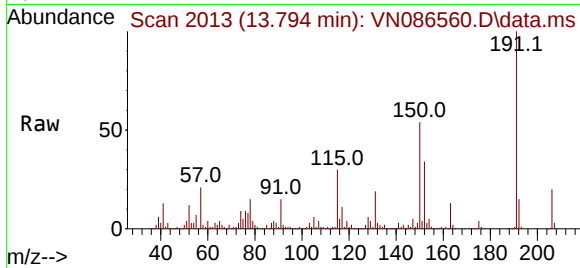




#88
1,4-Dichlorobenzene
Concen: 0.980 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.018 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

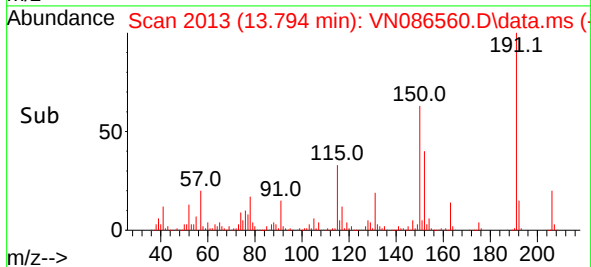
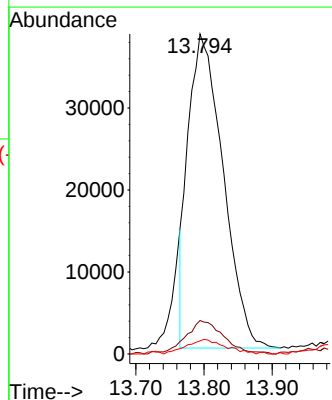
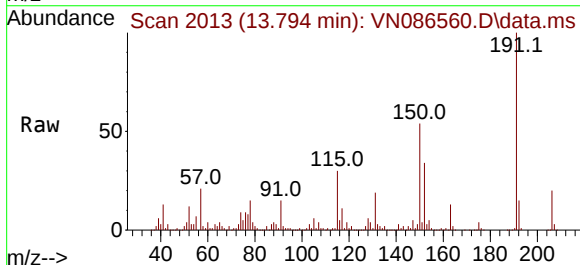
Instrument :
MSVOA_N
ClientSampleId :
3837

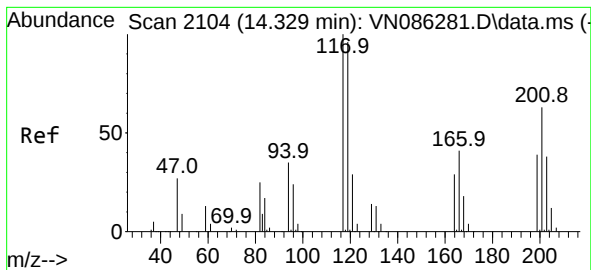
Tgt Ion:146 Resp: 5650
Ion Ratio Lower Upper
146 100
111 58.2 21.3 63.9
148 158.4 31.9 95.9#



#89
n-Butylbenzene
Concen: 13.756 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.259 min
Lab File: VN086560.D
Acq: 09 May 2025 14:19

Tgt Ion: 91 Resp: 135836
Ion Ratio Lower Upper
91 100
92 10.4 26.8 80.4#
134 4.6 12.2 36.6#





#90

Hexachloroethane

Concen: 0.584 ug/l

RT: 14.317 min Scan# 2102

Delta R.T. -0.012 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

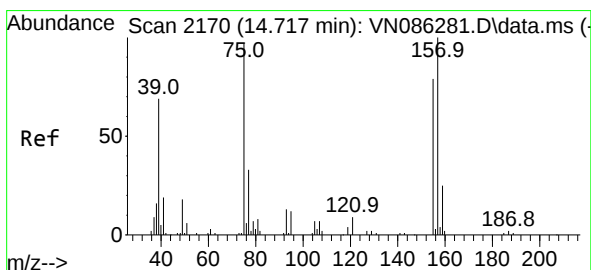
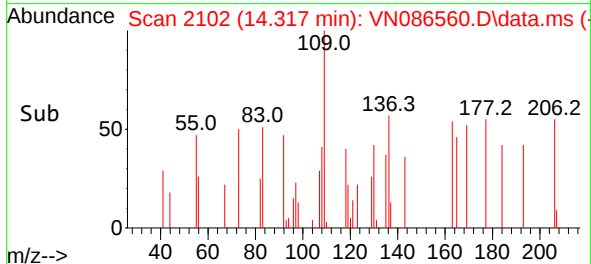
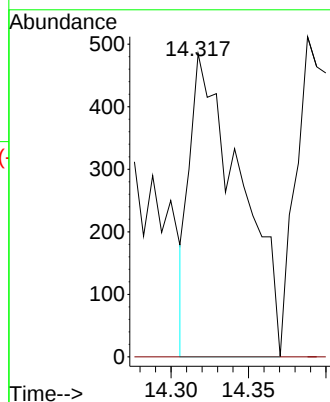
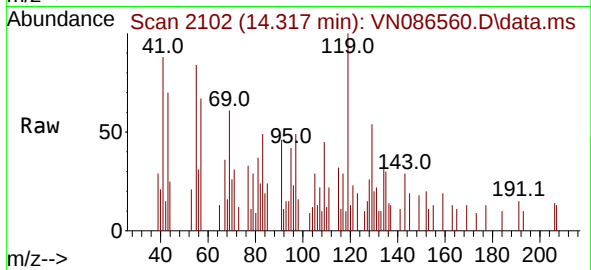
3837

Tgt Ion:117 Resp: 1094

Ion Ratio Lower Upper

117 100

201 0.0 31.4 94.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.685 ug/l

RT: 14.835 min Scan# 2190

Delta R.T. 0.118 min

Lab File: VN086560.D

Acq: 09 May 2025 14:19

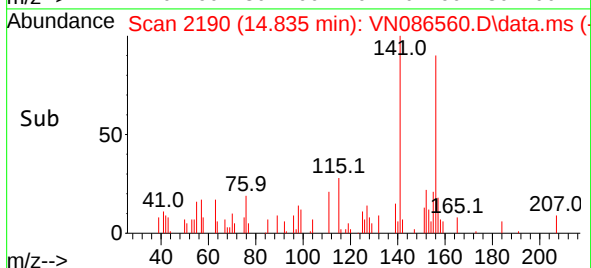
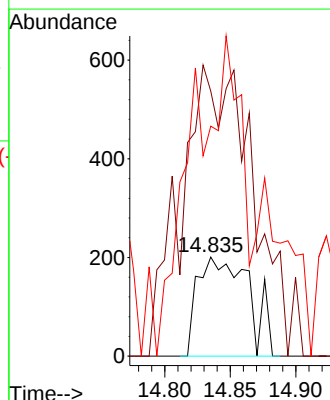
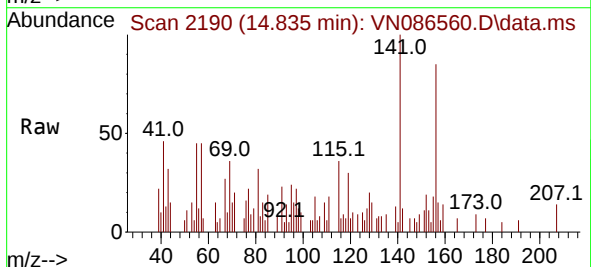
Tgt Ion: 75 Resp: 546

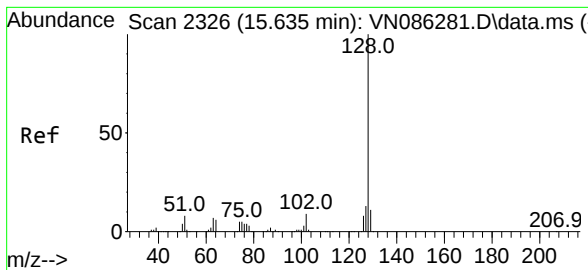
Ion Ratio Lower Upper

75 100

155 218.3 40.3 120.9#

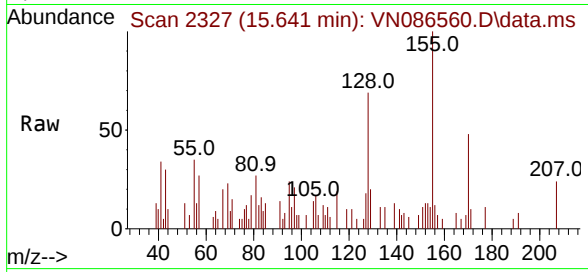
157 133.0 49.0 147.2





#95
 Naphthalene
 Concen: 0.517 ug/l
 RT: 15.641 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086560.D
 Acq: 09 May 2025 14:19

Instrument :
 MSVOA_N
 ClientSampleId :
 3837



Tgt Ion:	128	Resp:	4870
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.4
129	56.8	8.6	13.0#

