

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087527.D
 Acq On : 13 Aug 2025 11:41
 Operator : JC\MD
 Sample : VN0813WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 03:57:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

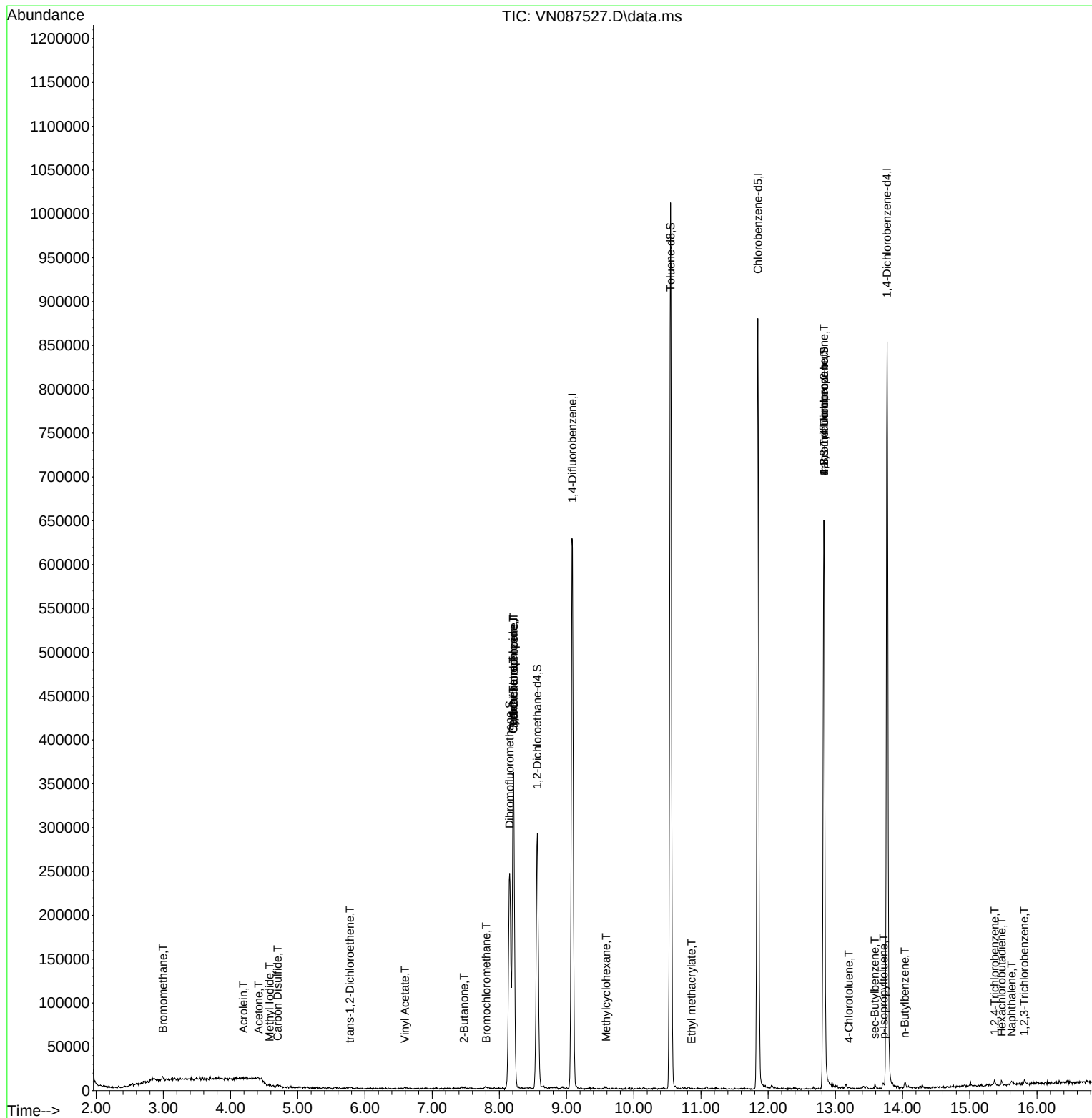
Internal Standards						
1) Pentafluorobenzene	8.212	168	240605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	517097	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	472576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	217582	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	243187	59.567	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.140%			
35) Dibromofluoromethane	8.153	113	177183	49.674	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	10.547	98	661503	51.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.980%			
62) 4-Bromofluorobenzene	12.829	95	235890	50.181	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.360%			
Target Compounds					Qvalue	
5) Bromomethane	2.995	94	1310	0.792	ug/l #	72
10) Methyl Iodide	4.583	142	449	5.791	ug/l #	40
13) Acrolein	4.189	56	1062	1.707	ug/l	99
16) Acetone	4.418	43	570	0.298	ug/l	99
17) Carbon Disulfide	4.700	76	3628	0.445	ug/l #	71
20) Methylene Chloride	5.253	84	173	Below Cal	#	4
21) trans-1,2-Dichloroethene	5.777	96	761	0.246	ug/l #	12
23) Vinyl Acetate	6.594	43	2359	0.259	ug/l #	74
25) 2-Butanone	7.477	43	687	0.232	ug/l #	61
28) Bromochloromethane	7.806	49	1176	0.408	ug/l #	84
31) Cyclohexane	8.206	56	7415	1.477	ug/l #	6
36) 1,1-Dichloropropene	8.212	75	25025	5.310	ug/l #	50
38) Carbon Tetrachloride	8.206	117	28721	5.533	ug/l #	15
39) Methylcyclohexane	9.588	83	1378	0.270	ug/l #	59
56) Ethyl methacrylate	10.859	69	58	0.644	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	139447	28.580	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	139447	78.201	ug/l #	8
82) 4-Chlorotoluene	13.200	91	2208	0.200	ug/l #	70
85) sec-Butylbenzene	13.588	105	3290	0.224	ug/l	98
86) p-Isopropyltoluene	13.718	119	2582	0.219	ug/l	82
89) n-Butylbenzene	14.035	91	3776	0.336	ug/l	96
93) 1,2,4-Trichlorobenzene	15.370	180	1410	0.364	ug/l	75
94) Hexachlorobutadiene	15.476	225	738	0.512	ug/l	65
95) Naphthalene	15.623	128	3976	0.289	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.812	180	1497	0.385	ug/l #	78

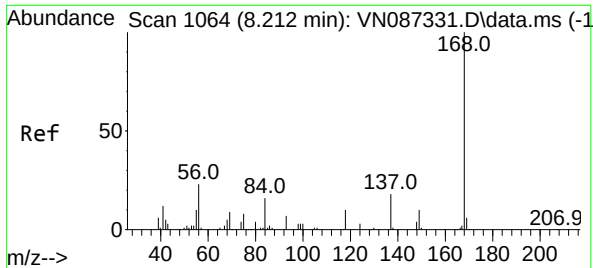
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
Data File : VN087527.D
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Quant Time: Aug 14 03:57:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

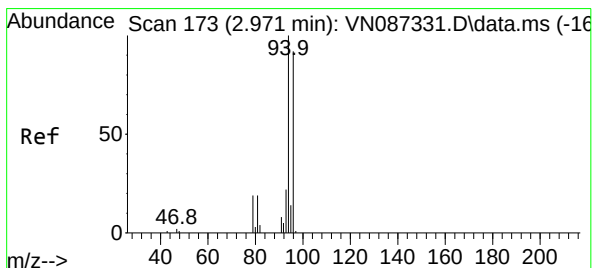
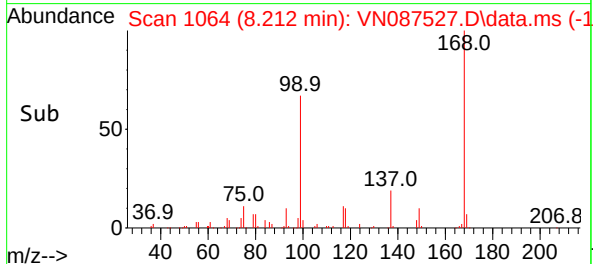
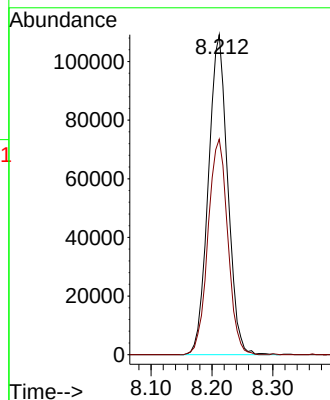
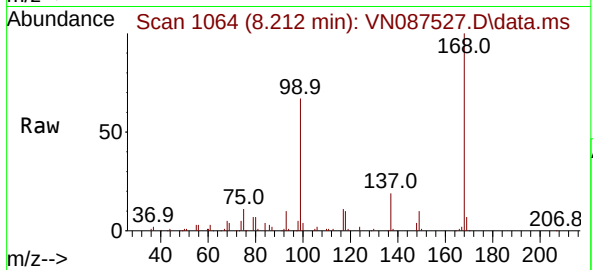




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

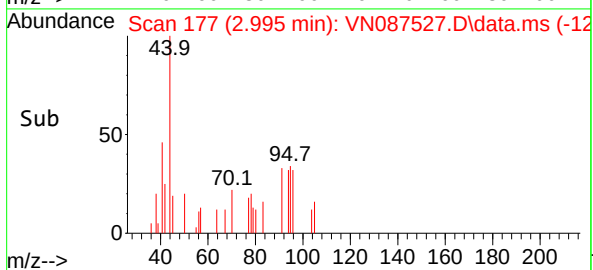
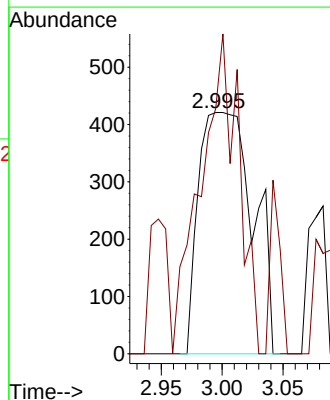
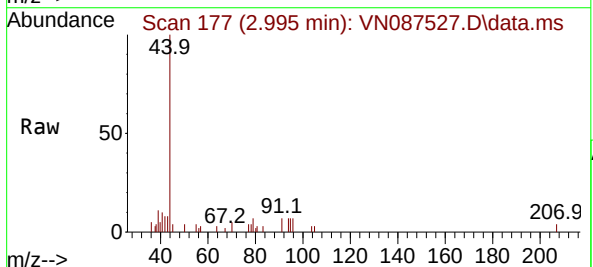
Instrument :
MSVOA_N
ClientSampleId :

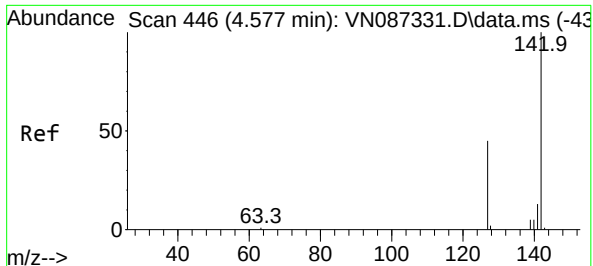
Tgt Ion:168 Resp: 240605
Ion Ratio Lower Upper
168 100
99 67.4 47.9 71.9



#5
Bromomethane
Concen: 0.792 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

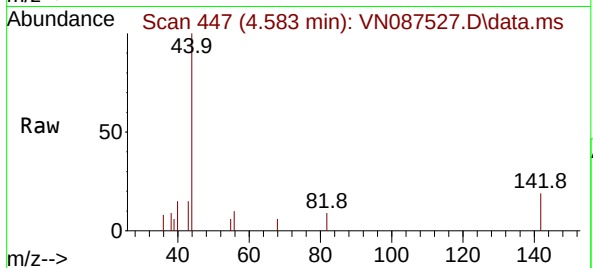
Tgt Ion: 94 Resp: 1310
Ion Ratio Lower Upper
94 100
96 65.6 73.4 110.2#



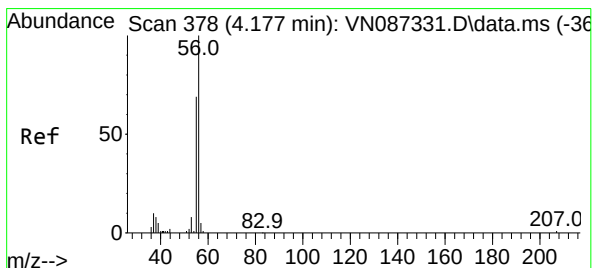
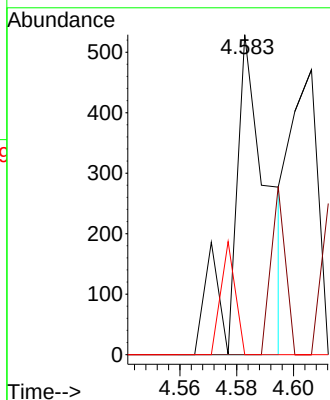
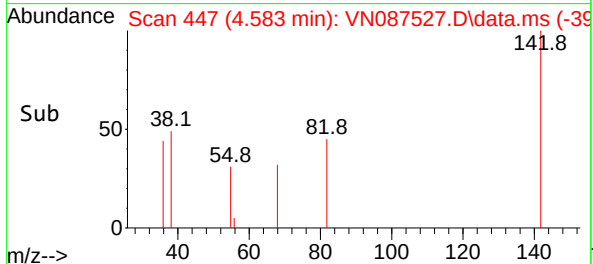


#10
Methyl Iodide
Concen: 5.791 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

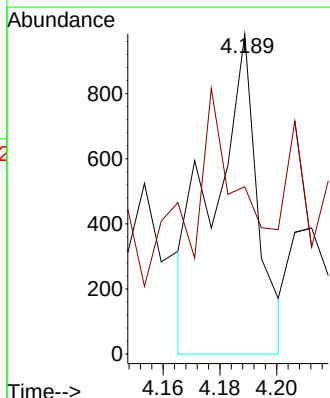
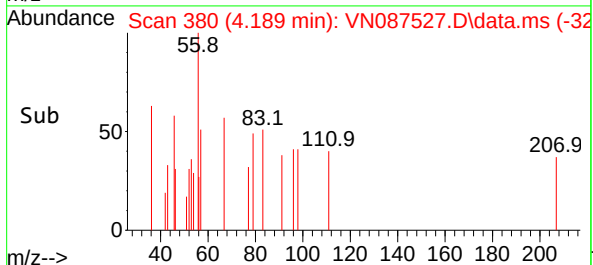
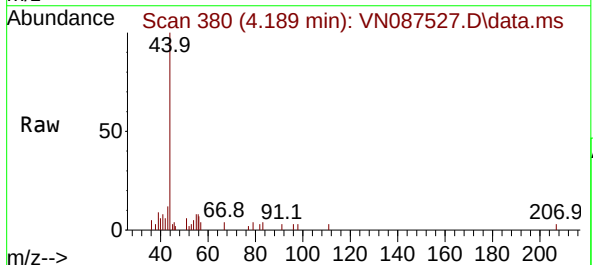


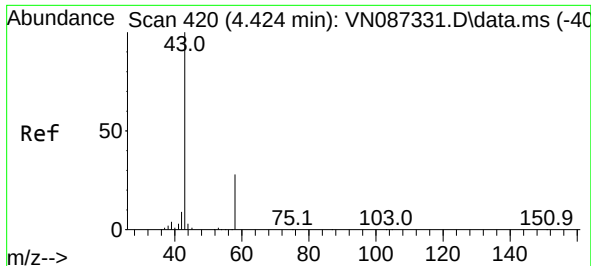
Tgt Ion:142 Resp: 449
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#13
Acrolein
Concen: 1.707 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 56 Resp: 1062
Ion Ratio Lower Upper
56 100
55 69.6 56.2 84.4

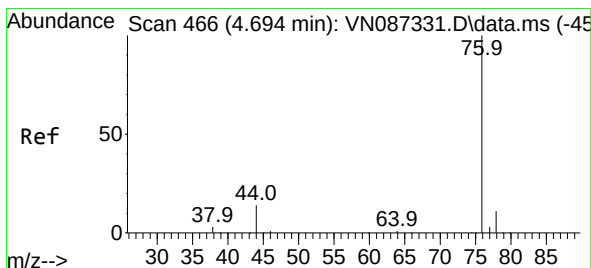
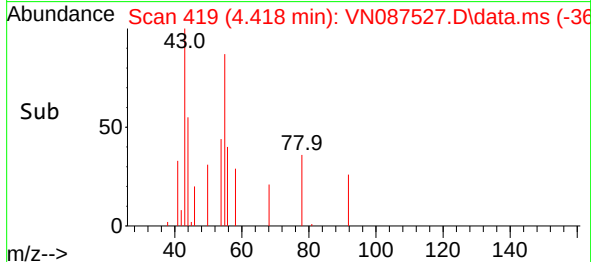
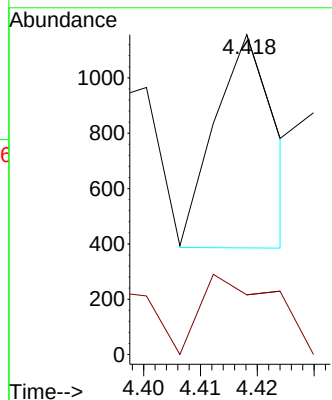
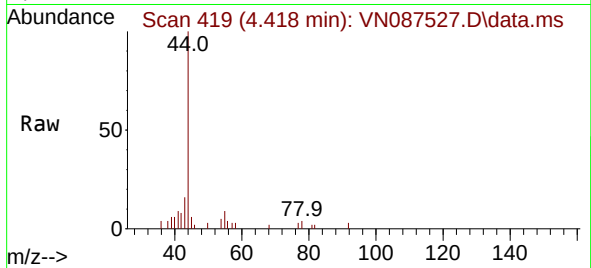




#16
Acetone
Concen: 0.298 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

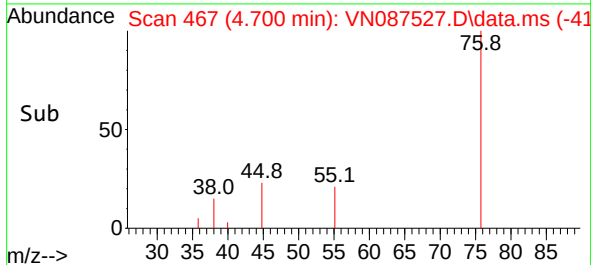
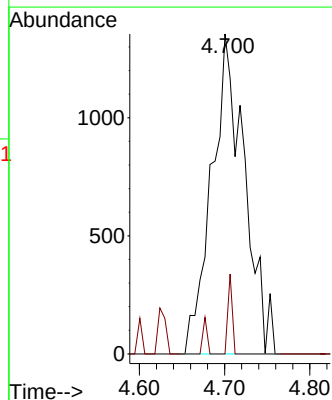
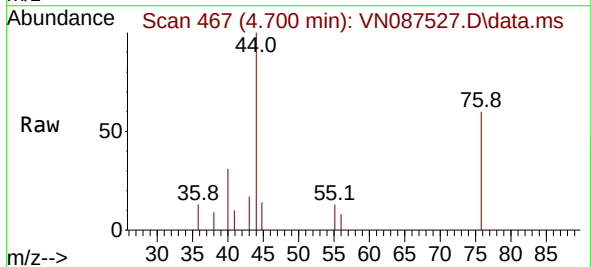
Instrument :
MSVOA_N
ClientSampleId :

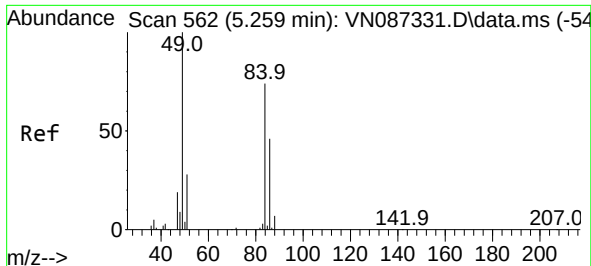
Tgt Ion: 43 Resp: 570
Ion Ratio Lower Upper
43 100
58 28.3 22.3 33.5



#17
Carbon Disulfide
Concen: 0.445 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 76 Resp: 3628
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.253 min Scan# 51

Delta R.T. -0.006 min

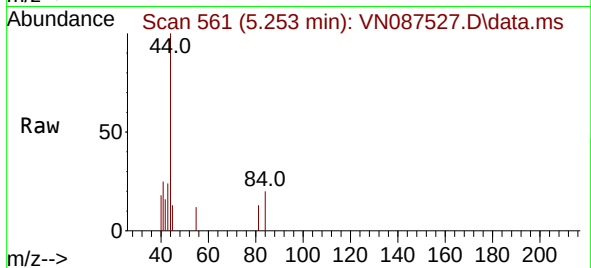
Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 173

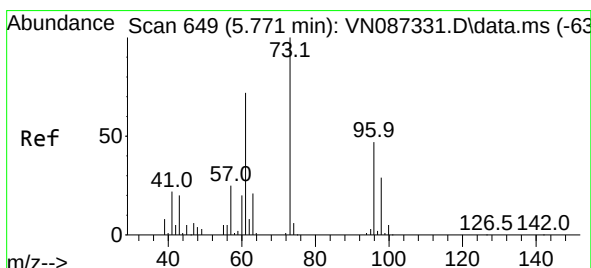
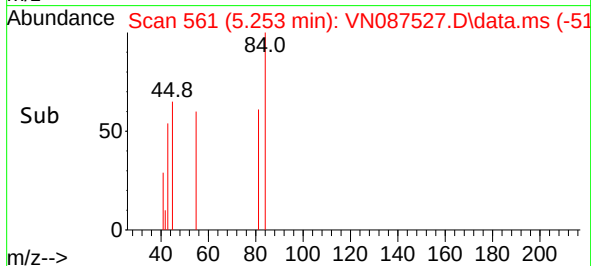
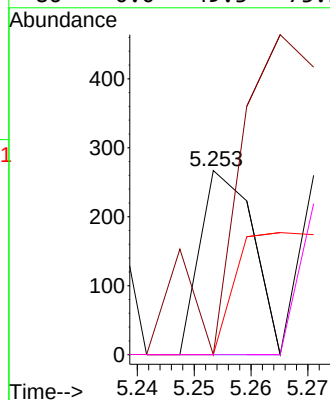
Ion Ratio Lower Upper

84 100

49 0.0 107.5 161.3#

51 0.0 30.2 45.2#

86 0.0 49.3 73.9#



#21

trans-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 5.777 min Scan# 650

Delta R.T. 0.006 min

Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

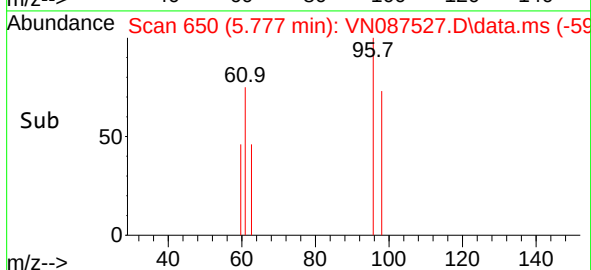
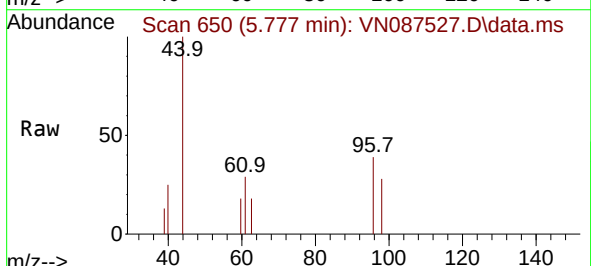
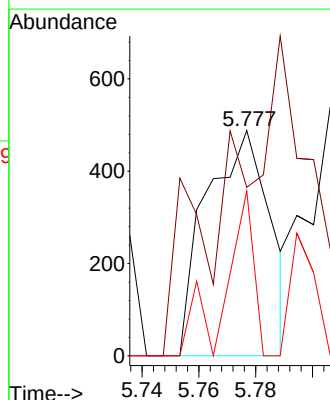
Tgt Ion: 96 Resp: 761

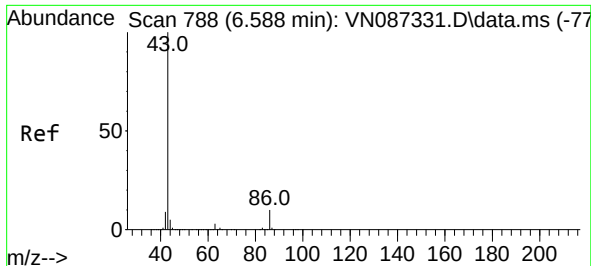
Ion Ratio Lower Upper

96 100

61 0.0 122.0 183.0#

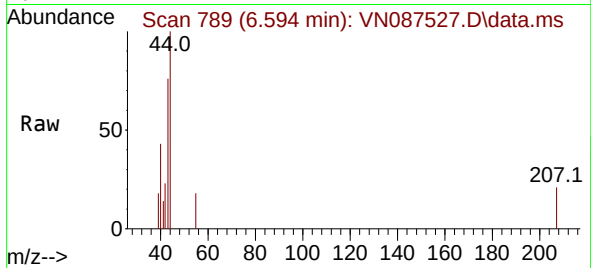
98 73.2 50.0 75.0



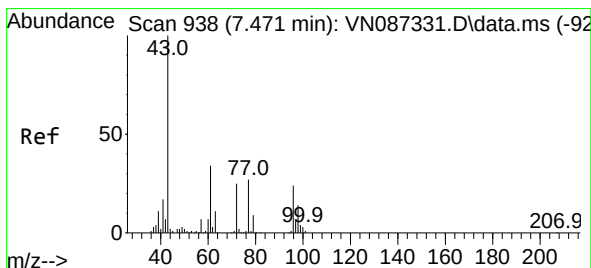
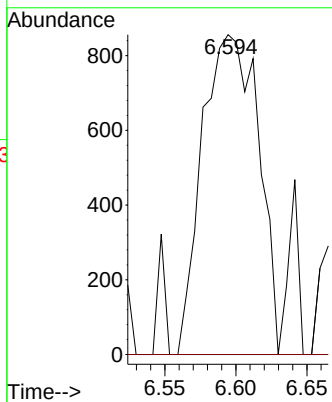
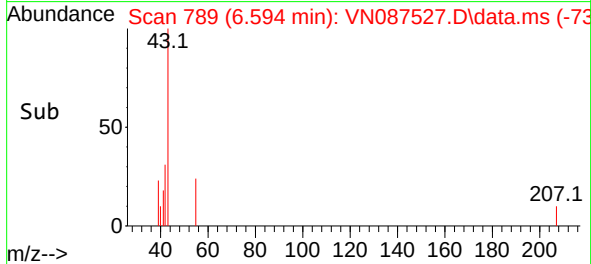


#23
Vinyl Acetate
Concen: 0.259 ug/l
RT: 6.594 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

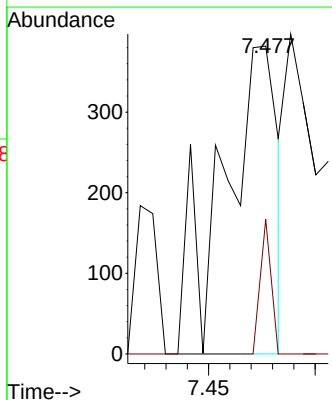
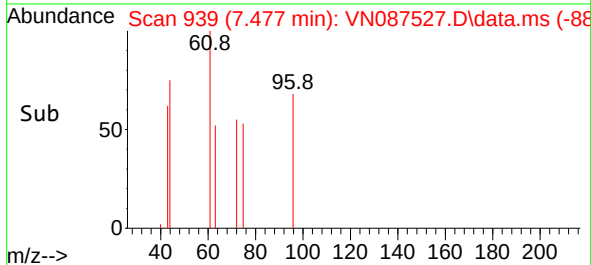
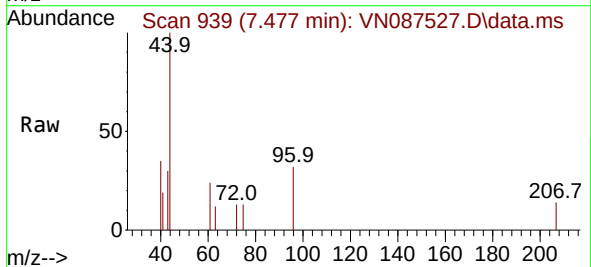


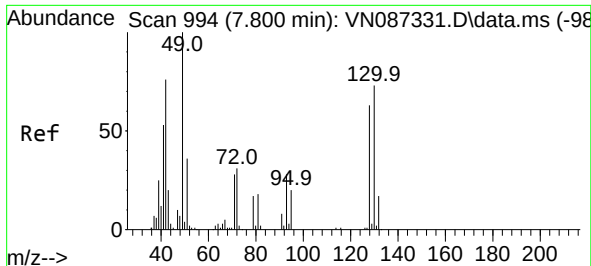
Tgt Ion: 43 Resp: 2359
Ion Ratio Lower Upper
43 100
86 0.0 7.7 11.5#



#25
2-Butanone
Concen: 0.232 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

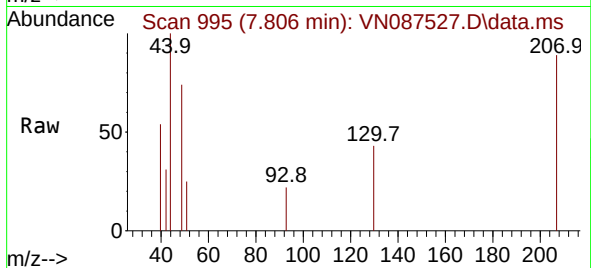
Tgt Ion: 43 Resp: 687
Ion Ratio Lower Upper
43 100
72 43.7 19.6 29.4#



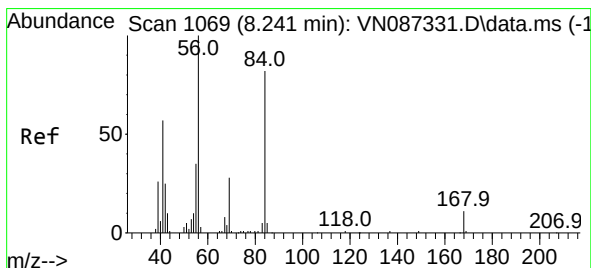
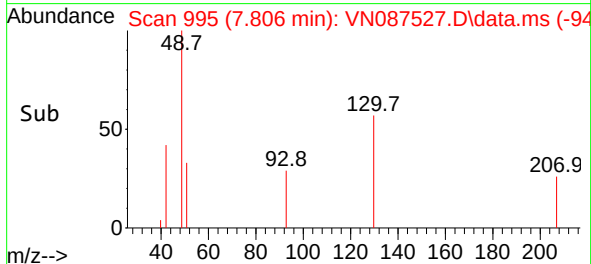
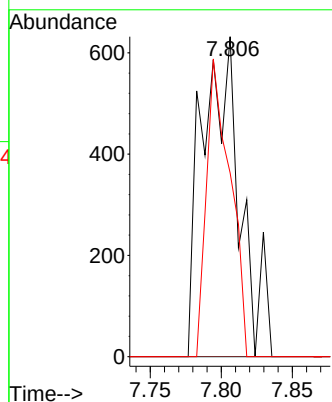


#28
Bromochloromethane
Concen: 0.408 ug/l
RT: 7.806 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

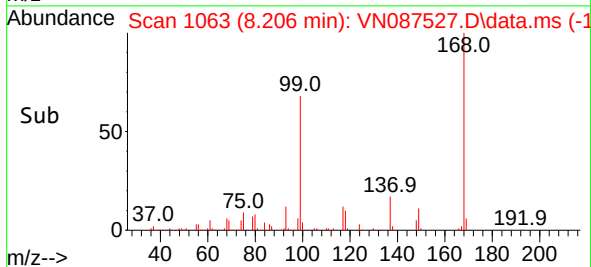
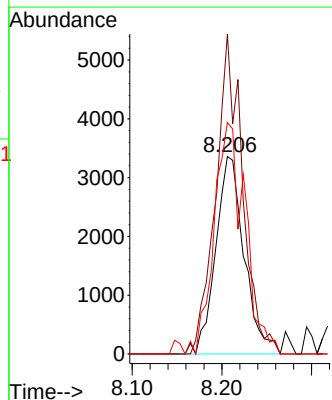
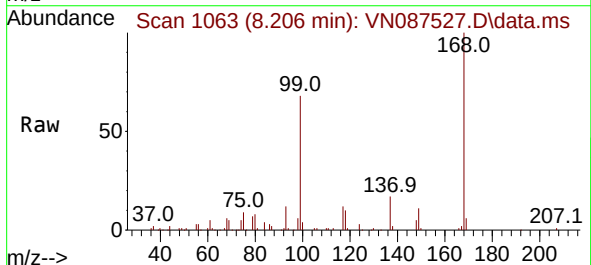


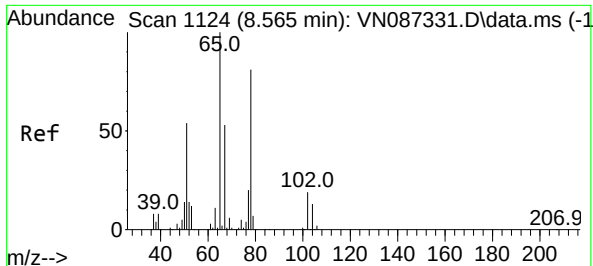
Tgt Ion: 49 Resp: 1176
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 58.0 57.3 85.9



#31
Cyclohexane
Concen: 1.477 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 56 Resp: 7415
Ion Ratio Lower Upper
56 100
69 162.0 22.7 34.1#
84 117.2 65.8 98.6#





#33

1,2-Dichloroethane-d4

Concen: 59.567 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

Instrument :

MSVOA_N

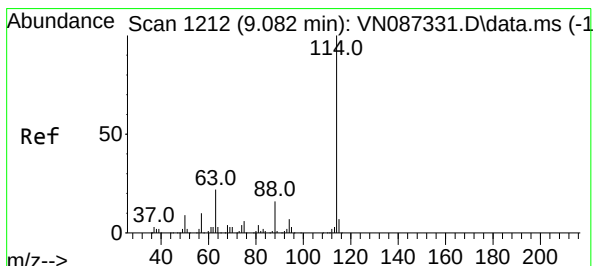
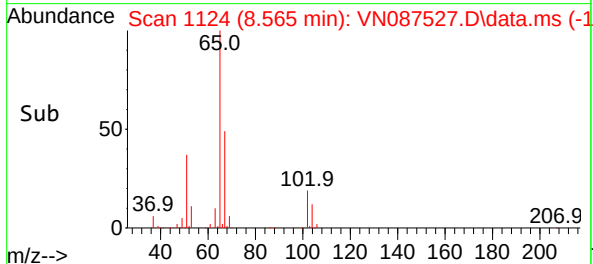
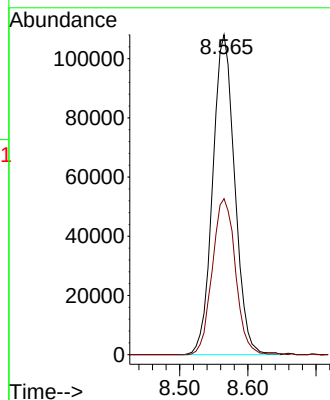
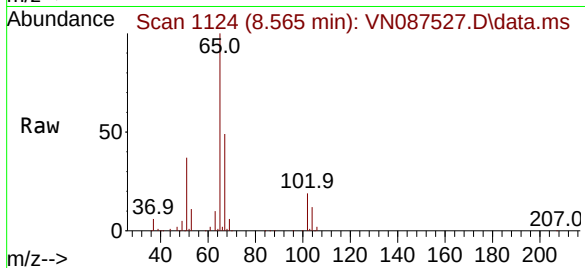
ClientSampleId :

Tgt Ion: 65 Resp: 243187

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

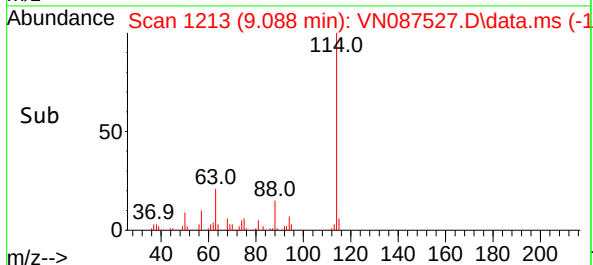
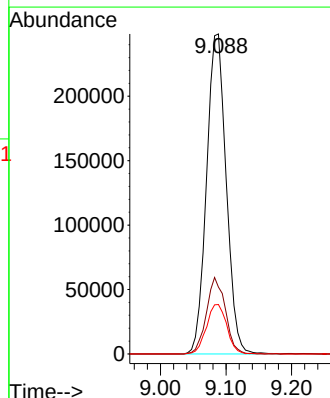
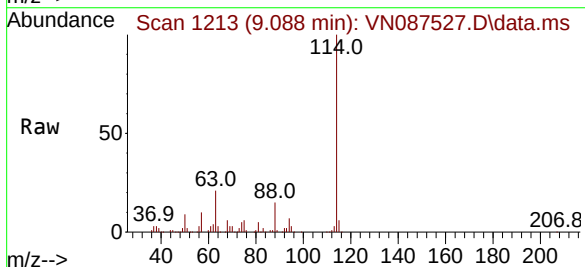
Tgt Ion: 114 Resp: 517097

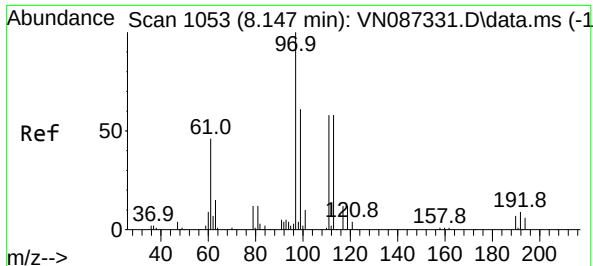
Ion Ratio Lower Upper

114 100

63 20.9 0.0 44.6

88 15.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.674 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

Instrument :

MSVOA_N

ClientSampleId :

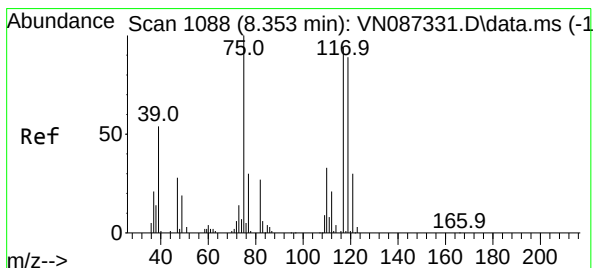
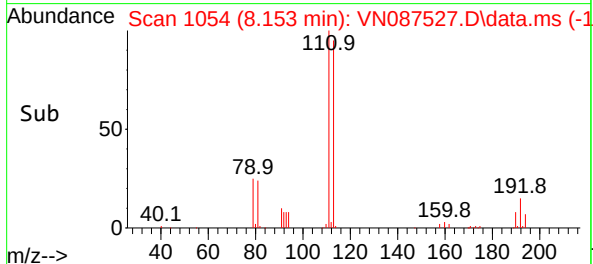
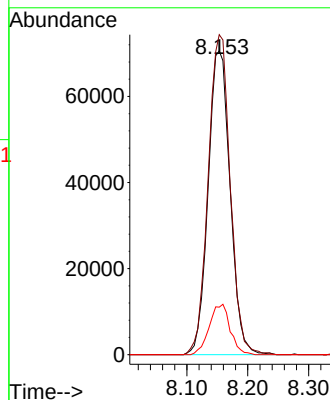
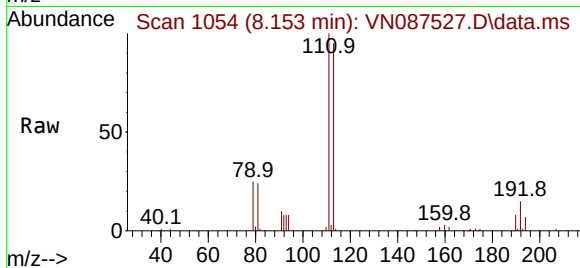
Tgt Ion:113 Resp: 177183

Ion Ratio Lower Upper

113 100

111 105.4 82.5 123.7

192 15.8 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.310 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087527.D

Acq: 13 Aug 2025 11:41

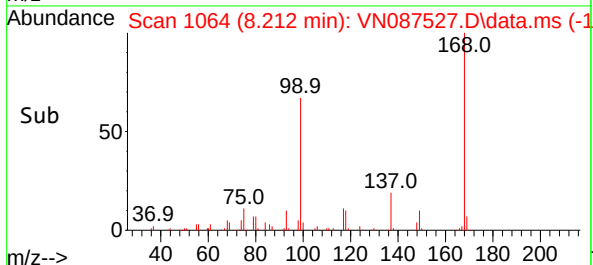
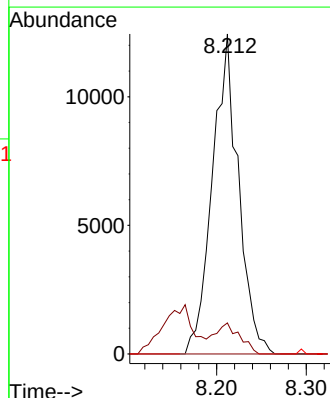
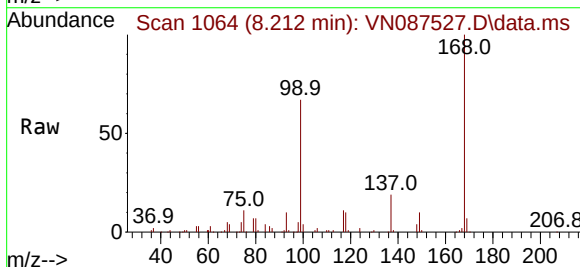
Tgt Ion: 75 Resp: 25025

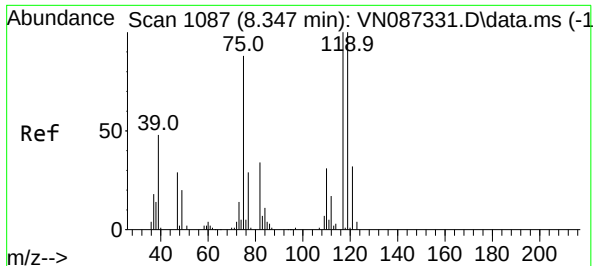
Ion Ratio Lower Upper

75 100

110 9.2 16.7 50.1#

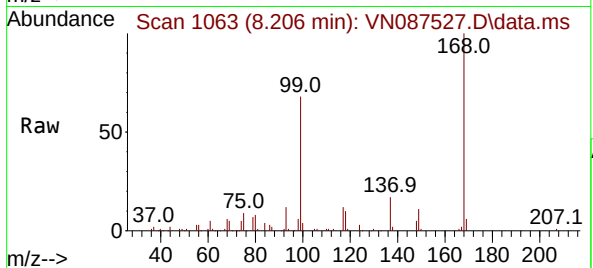
77 0.0 25.2 37.8#



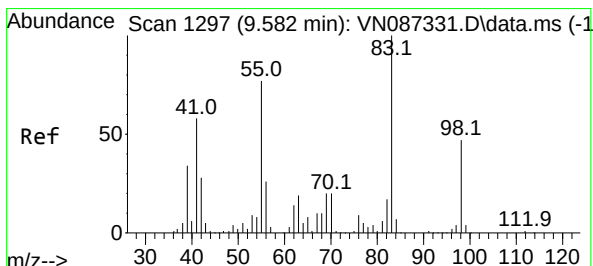
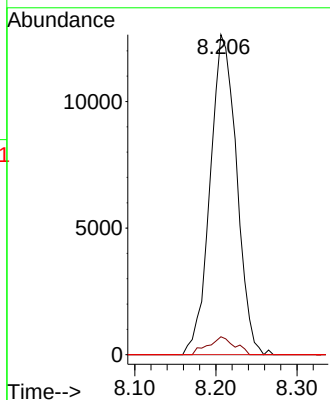
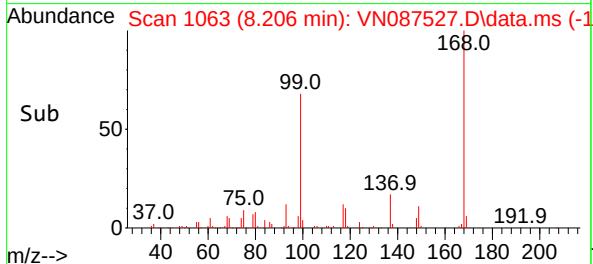


#38
Carbon Tetrachloride
Concen: 5.533 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

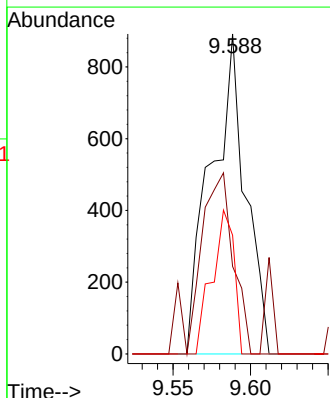
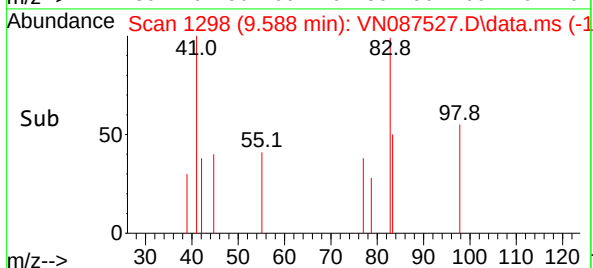
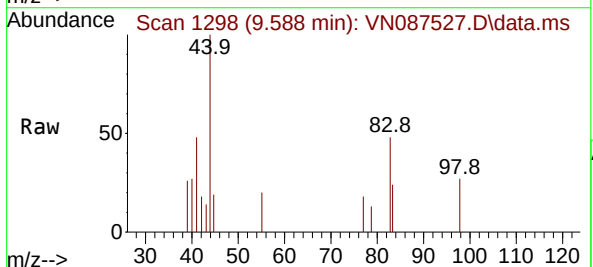


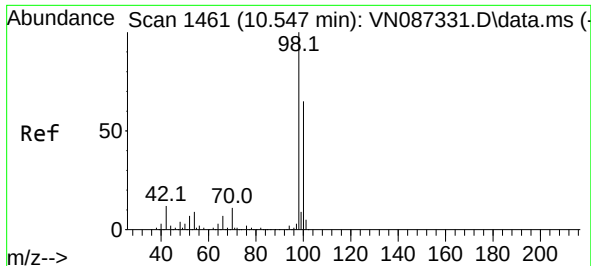
Tgt Ion:117 Resp: 28721
Ion Ratio Lower Upper
117 100
119 5.6 80.2 120.2#
121 0.0 25.4 38.2#



#39
Methylcyclohexane
Concen: 0.270 ug/l
RT: 9.588 min Scan# 1298
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 83 Resp: 1378
Ion Ratio Lower Upper
83 100
55 27.4 61.3 91.9#
98 37.1 37.9 56.9#

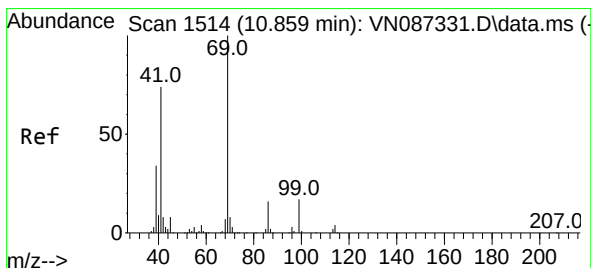
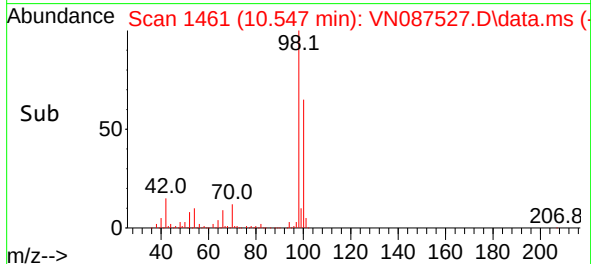
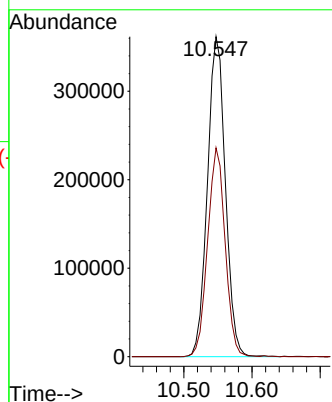
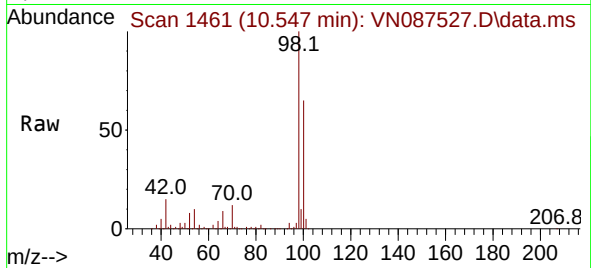




#50
Toluene-d8
Concen: 51.990 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

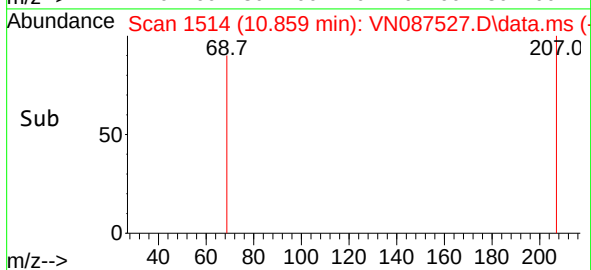
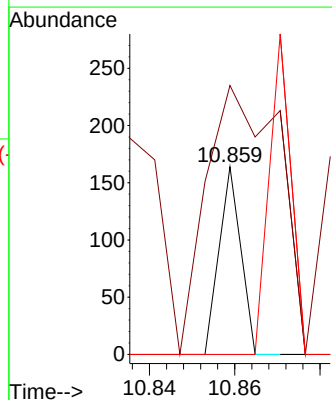
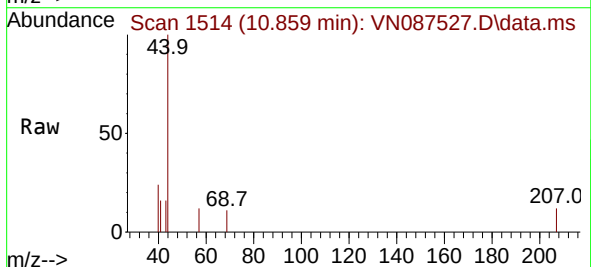
Instrument :
MSVOA_N
ClientSampleId :

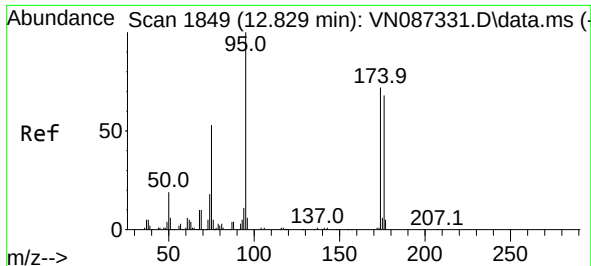
Tgt Ion: 98 Resp: 661503
Ion Ratio Lower Upper
98 100
100 63.8 52.1 78.1



#56
Ethyl methacrylate
Concen: 0.644 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. -0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 69 Resp: 58
Ion Ratio Lower Upper
69 100
41 479.3 55.1 82.7#
39 170.7 27.9 41.9#

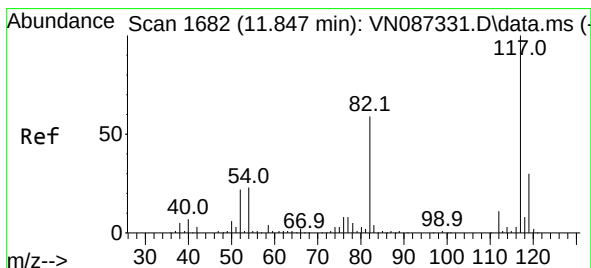
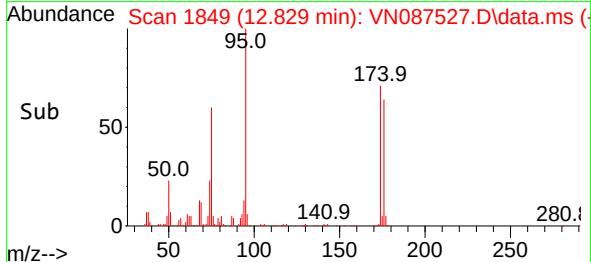
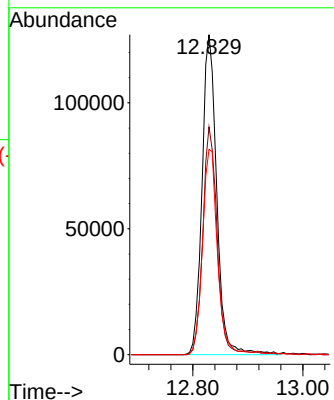
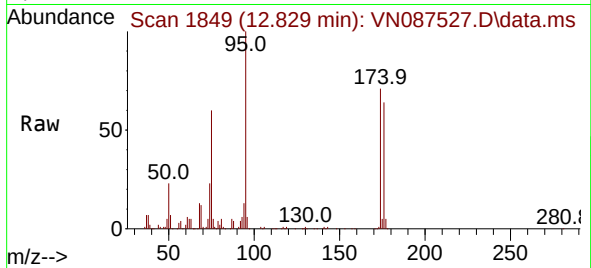




#62
4-Bromofluorobenzene
Concen: 50.181 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

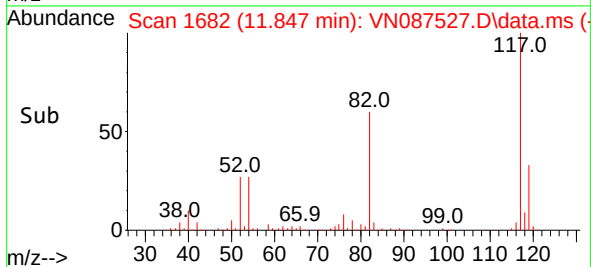
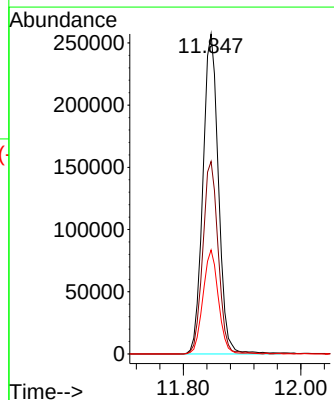
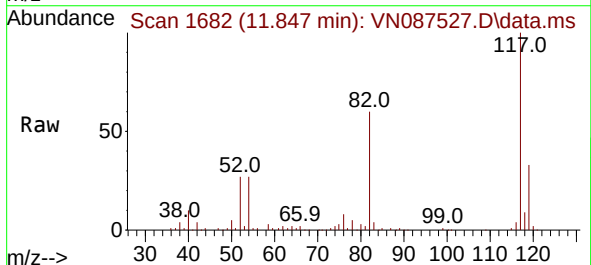
Instrument :
MSVOA_N
ClientSampleId :

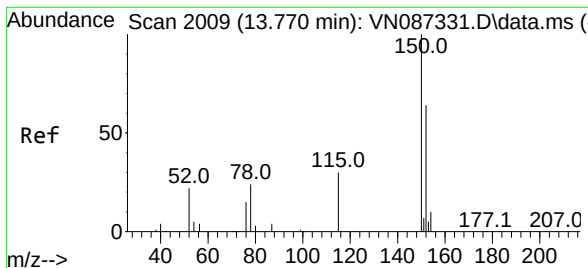
Tgt Ion: 95 Resp: 235890
Ion Ratio Lower Upper
95 100
174 69.0 0.0 149.4
176 65.4 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

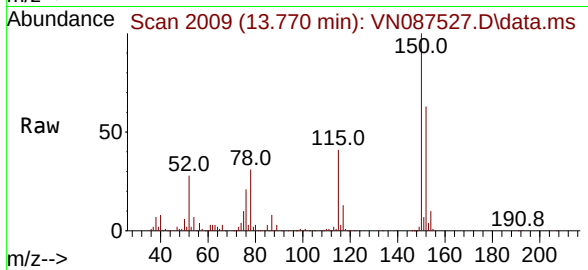
Tgt Ion: 117 Resp: 472576
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 32.5 23.8 35.8



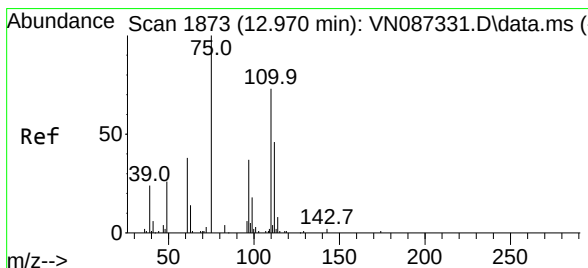
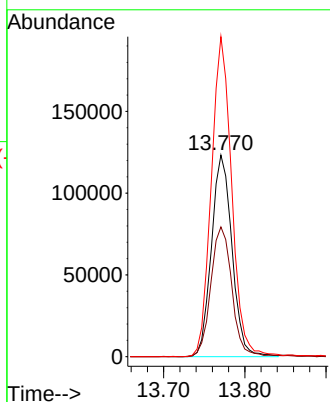
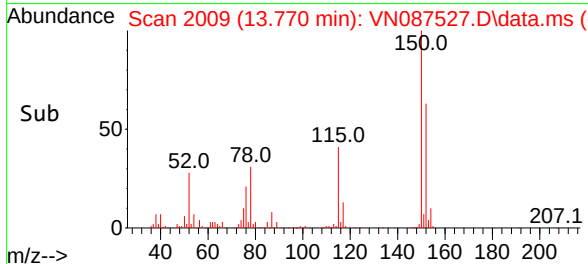


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

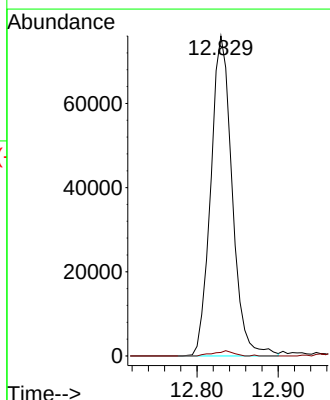
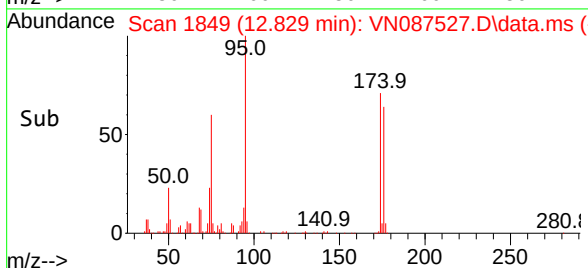
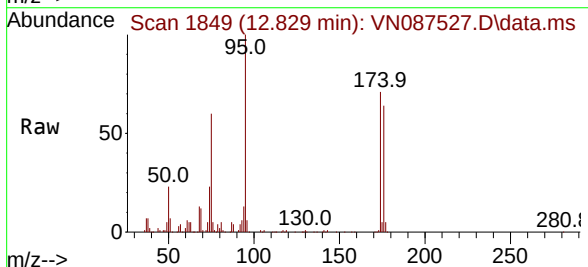


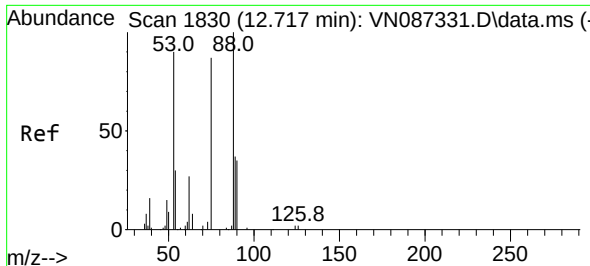
Tgt Ion:152 Resp: 217582
Ion Ratio Lower Upper
152 100
115 66.2 31.1 93.5
150 157.7 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 28.580 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 75 Resp: 139447
Ion Ratio Lower Upper
75 100
77 1.5 94.5 283.6#

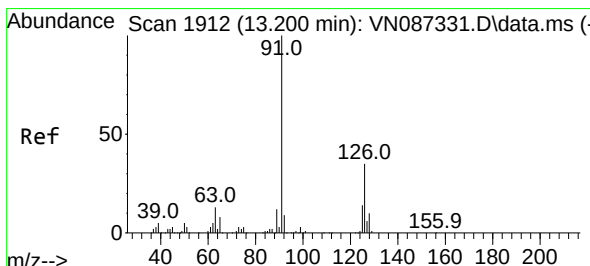
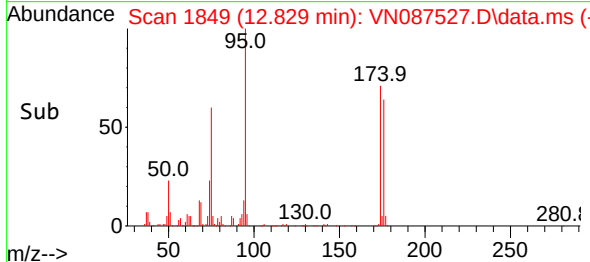
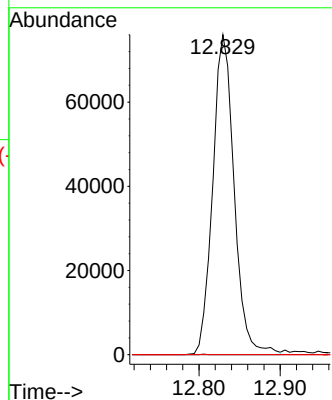
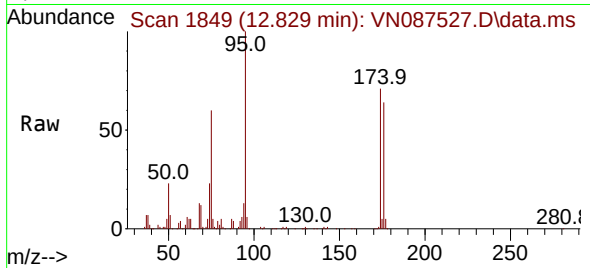




#81
trans-1,4-Dichloro-2-butene
Concen: 78.201 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

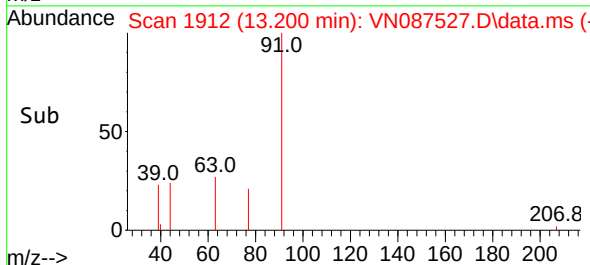
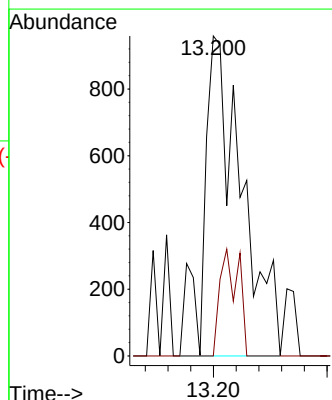
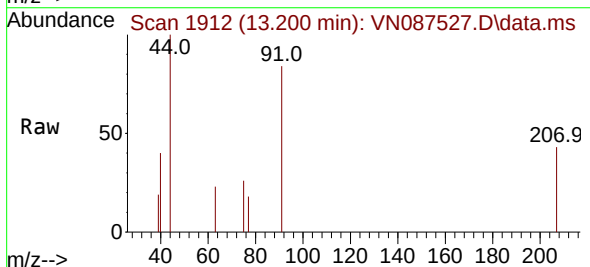
Instrument :
MSVOA_N
ClientSampleId :

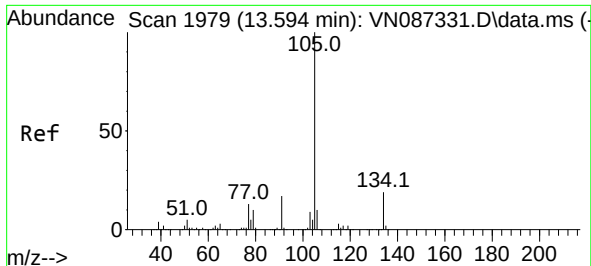
Tgt Ion: 75 Resp: 139447
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.0 38.4 57.6#



#82
4-Chlorotoluene
Concen: 0.200 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Tgt Ion: 91 Resp: 2208
Ion Ratio Lower Upper
91 100
126 16.3 16.6 49.7#

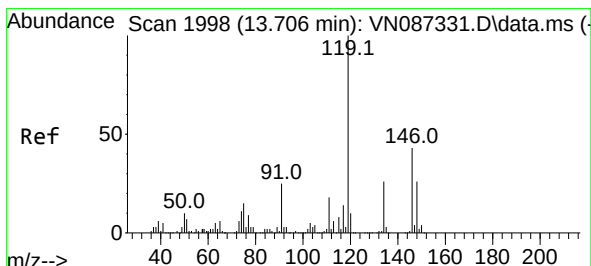
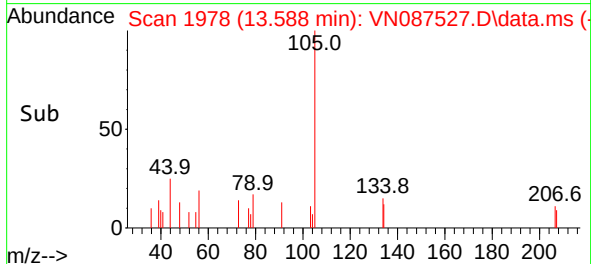
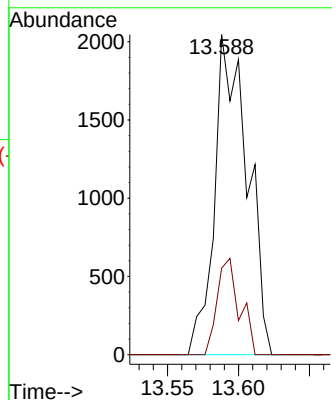
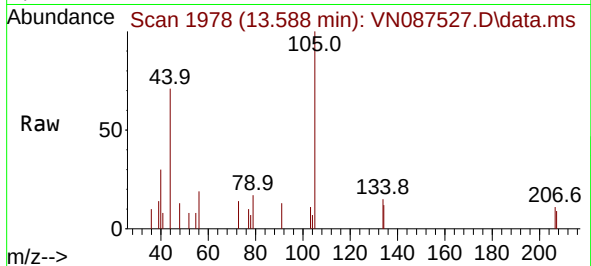




#85
 sec-Butylbenzene
 Concen: 0.224 ug/l
 RT: 13.588 min Scan# 1979
 Delta R.T. -0.006 min
 Lab File: VN087527.D
 Acq: 13 Aug 2025 11:41

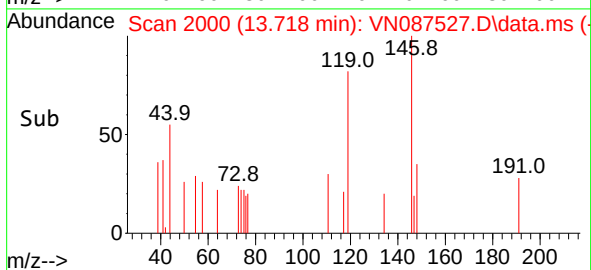
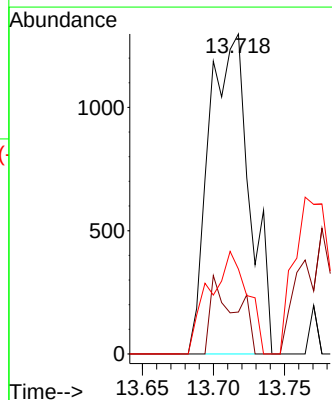
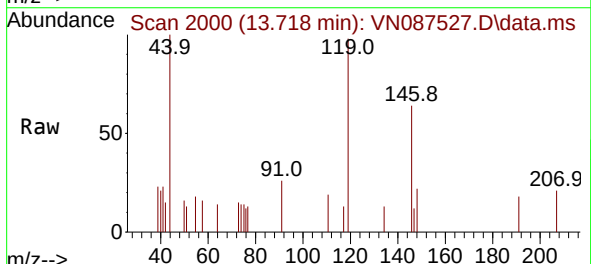
Instrument :
 MSVOA_N
 ClientSampleId :

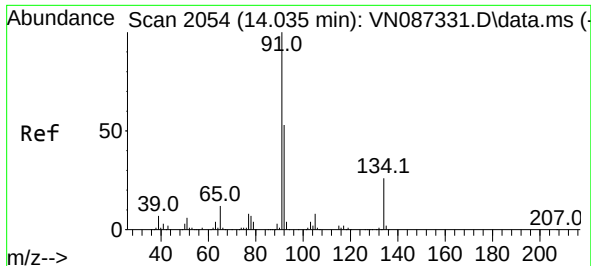
Tgt Ion:105 Resp: 3290
 Ion Ratio Lower Upper
 105 100
 134 20.5 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.219 ug/l
 RT: 13.718 min Scan# 2000
 Delta R.T. 0.012 min
 Lab File: VN087527.D
 Acq: 13 Aug 2025 11:41

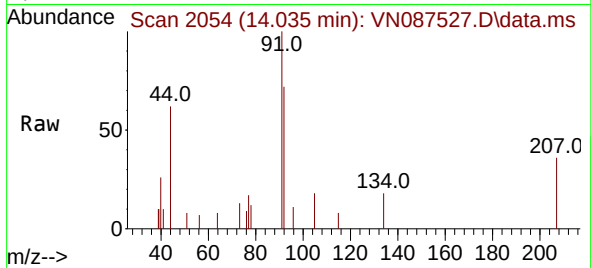
Tgt Ion:119 Resp: 2582
 Ion Ratio Lower Upper
 119 100
 134 15.1 13.5 40.5
 91 30.1 12.2 36.6



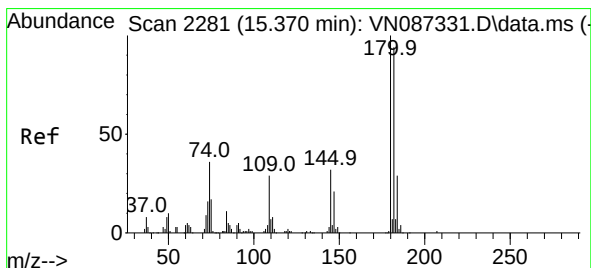
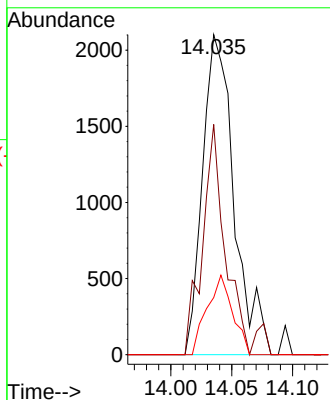
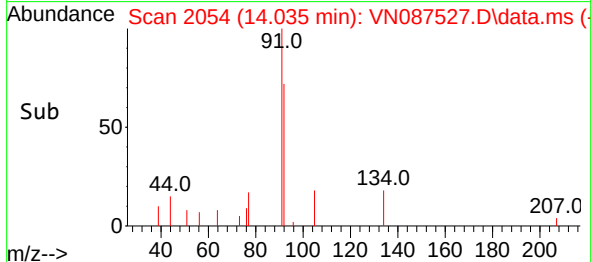


#89
n-Butylbenzene
Concen: 0.336 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

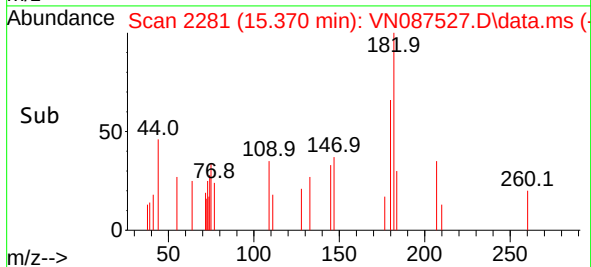
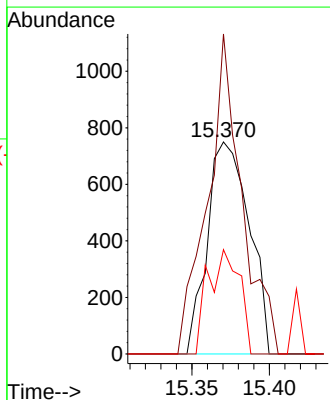
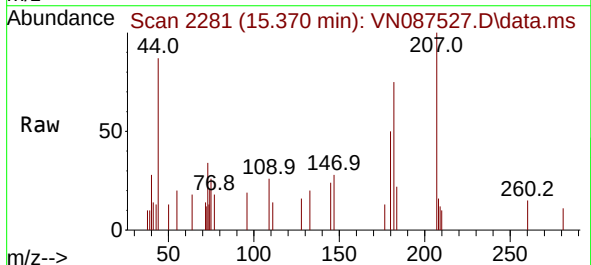


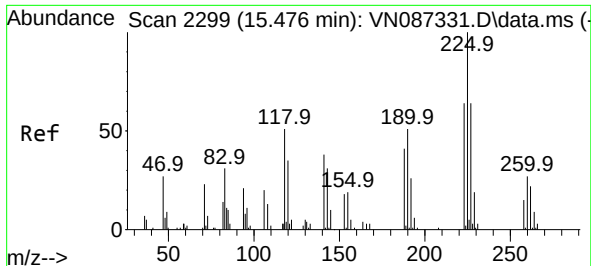
Tgt Ion:	91	Resp:	3776
Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.2	78.6
134	20.1	12.4	37.2



#93
1,2,4-Trichlorobenzene
Concen: 0.364 ug/l
RT: 15.370 min Scan# 2281
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

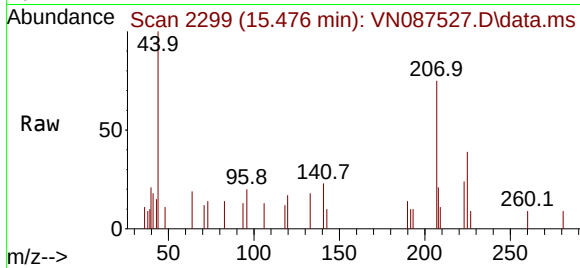
Tgt Ion:	180	Resp:	1410
Ion	Ratio	Lower	Upper
180	100		
182	123.2	47.3	141.8
145	36.8	15.4	46.4



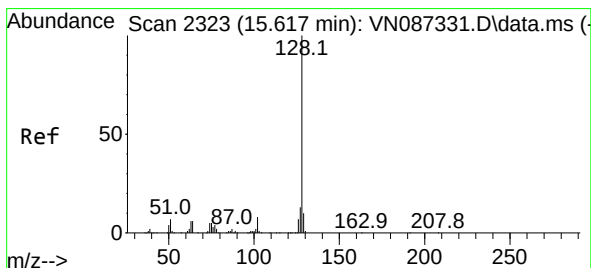
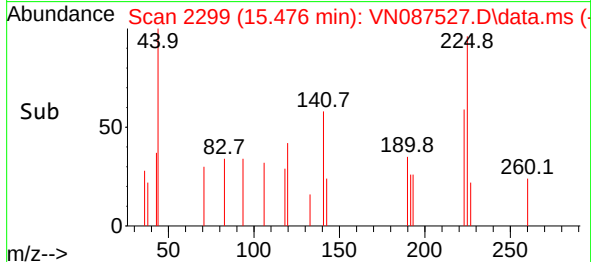
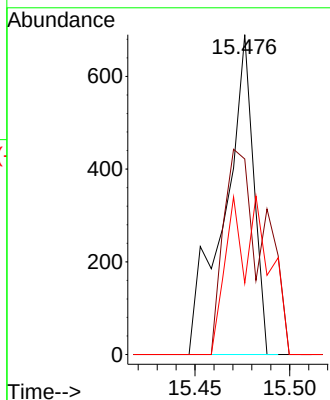


#94
Hexachlorobutadiene
Concen: 0.512 ug/l
RT: 15.476 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

Instrument :
MSVOA_N
ClientSampleId :

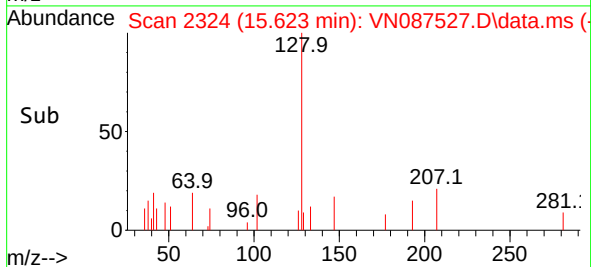
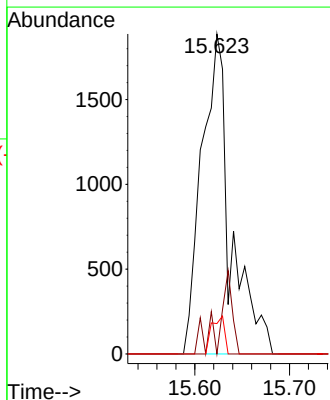
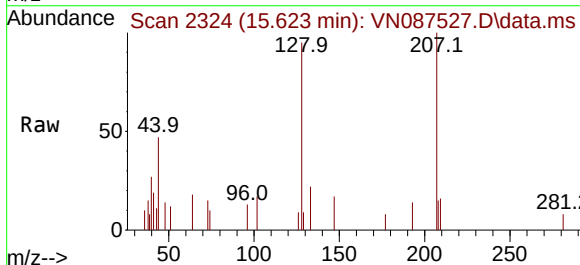


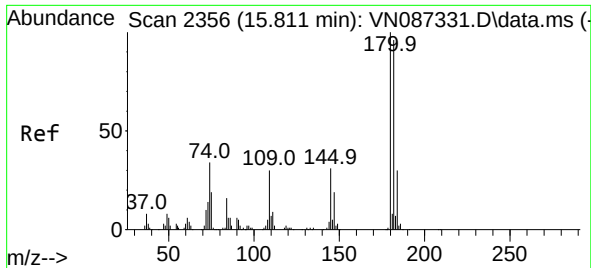
Tgt Ion:	225	Resp:	738
Ion Ratio	Lower	Upper	
225	100		
223	87.1	32.1	96.3
227	31.3	31.3	93.9



#95
Naphthalene
Concen: 0.289 ug/l
RT: 15.623 min Scan# 2324
Delta R.T. 0.006 min
Lab File: VN087527.D
Acq: 13 Aug 2025 11:41

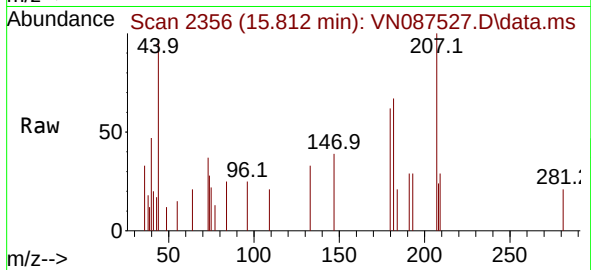
Tgt Ion:	128	Resp:	3976
Ion Ratio	Lower	Upper	
128	100		
127	10.6	10.5	15.7
129	5.2	8.4	12.6





#96
 1,2,3-Trichlorobenzene
 Concen: 0.385 ug/l
 RT: 15.812 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087527.D
 Acq: 13 Aug 2025 11:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.8	47.1	141.4
145	12.6	16.9	50.6

