

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088164.D
 Acq On : 29 Oct 2025 16:30
 Operator : JC\MD
 Sample : Q3472-14
 Misc : 1.68g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 155

Quant Time: Oct 30 04:09:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

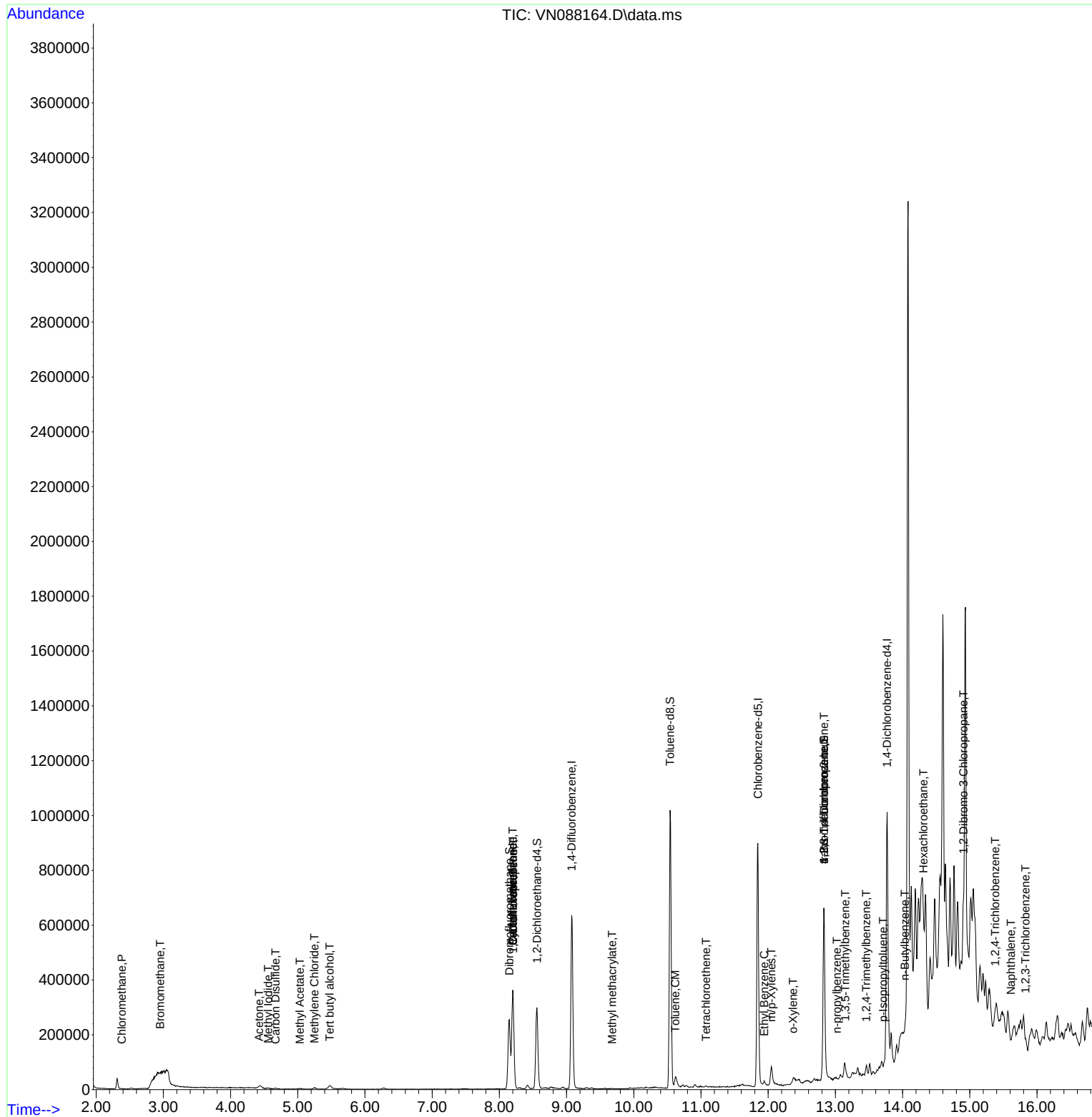
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.200	168	230078	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.076	114	527445	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	490531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	243124	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	252394	63.439	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 126.880%#	
35) Dibromofluoromethane	8.147	113	182138	51.402	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.800%	
50) Toluene-d8	10.541	98	686803	50.303	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.600%	
62) 4-Bromofluorobenzene	12.829	95	243725	50.546	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 101.100%	
Target Compounds						Qvalue
3) Chloromethane	2.383	50	1078	0.353	ug/l #	15
5) Bromomethane	2.953	94	1033	0.519	ug/l #	21
10) Methyl Iodide	4.559	142	5569	6.100	ug/l #	93
11) Tert butyl alcohol	5.477	59	12565	18.332	ug/l #	71
16) Acetone	4.424	43	24584	12.300	ug/l	93
17) Carbon Disulfide	4.671	76	4862	0.553	ug/l #	87
18) Methyl Acetate	5.030	43	3706	0.906	ug/l	94
20) Methylene Chloride	5.247	84	3506	1.882	ug/l #	80
31) Cyclohexane	8.200	56	9505	1.707	ug/l #	63
36) 1,1-Dichloropropene	8.206	75	24216	4.681	ug/l #	52
38) Carbon Tetrachloride	8.200	117	27881	5.218	ug/l #	15
48) Methyl methacrylate	9.676	41	2176	0.459	ug/l #	35
52) Toluene	10.618	92	1981	0.204	ug/l #	45
64) Tetrachloroethene	11.076	164	826	0.255	ug/l #	39
67) Ethyl Benzene	11.941	91	11169	0.571	ug/l	94
68) m/p-Xylenes	12.047	106	19917	2.719	ug/l	95
69) o-Xylene	12.370	106	5368	0.773	ug/l	95
76) 1,2,3-Trichloropropane	12.829	75	144302	25.960	ug/l #	1
78) n-propylbenzene	13.023	91	5115	0.224	ug/l #	75
80) 1,3,5-Trimethylbenzene	13.147	105	9005	0.578	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.829	75	144302	72.417	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	29322	1.882	ug/l	97
86) p-Isopropyltoluene	13.711	119	3362	0.205	ug/l	90
89) n-Butylbenzene	14.035	91	3835	0.236	ug/l #	69
90) Hexachloroethane	14.311	117	3471	1.093	ug/l #	25
92) 1,2-Dibromo-3-Chloropr...	14.906	75	600	0.442	ug/l	80
93) 1,2,4-Trichlorobenzene	15.376	180	1075	0.228	ug/l #	1
95) Naphthalene	15.611	128	21413	1.326	ug/l	97
96) 1,2,3-Trichlorobenzene	15.829	180	2105	0.466	ug/l #	62

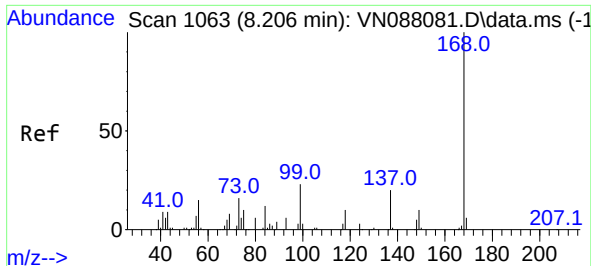
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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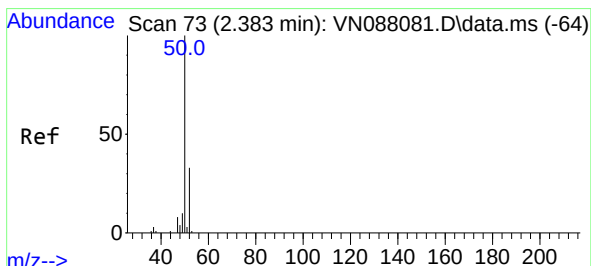
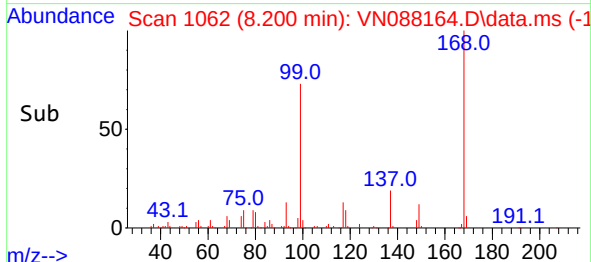
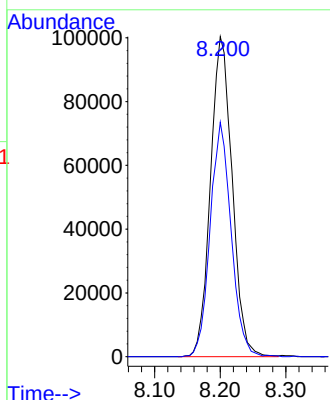
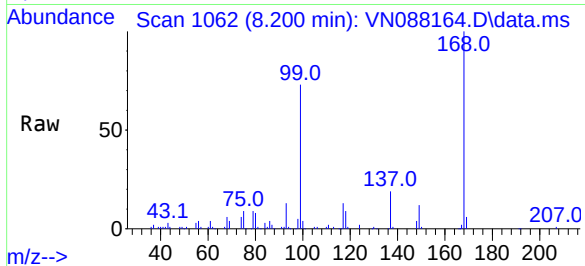




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1155
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

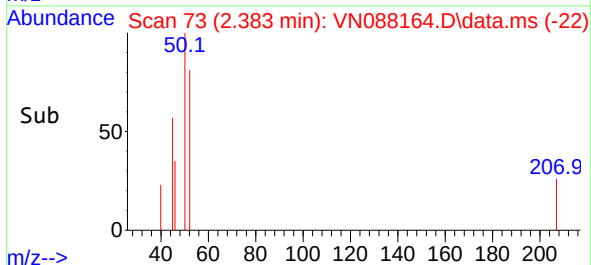
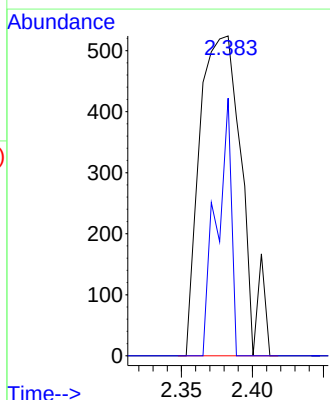
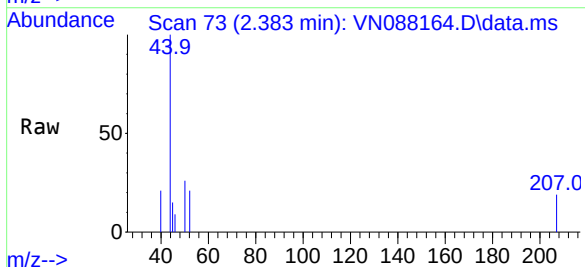
Instrument :
MSVOA_N
ClientSampleId :
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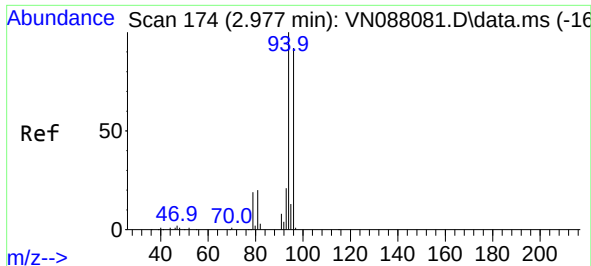
Tgt Ion:168 Resp: 230078
Ion Ratio Lower Upper
168 100
99 73.3 57.2 85.8



#3
Chloromethane
Concen: 0.353 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 50 Resp: 1078
Ion Ratio Lower Upper
50 100
52 80.5 26.2 39.4#

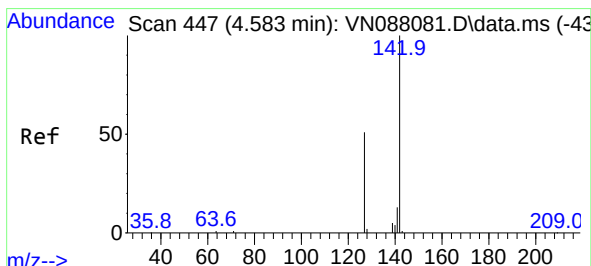
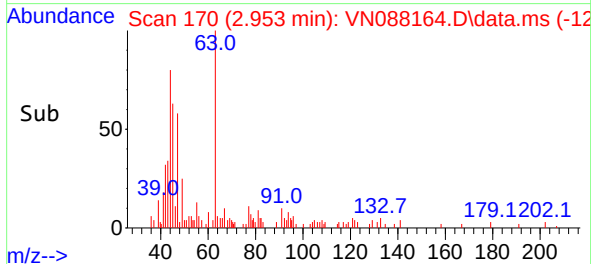
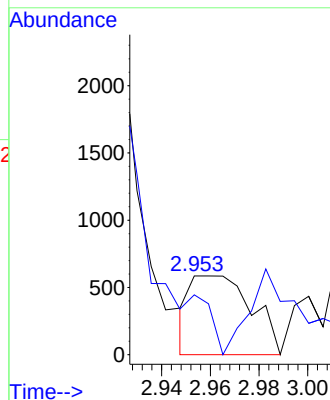
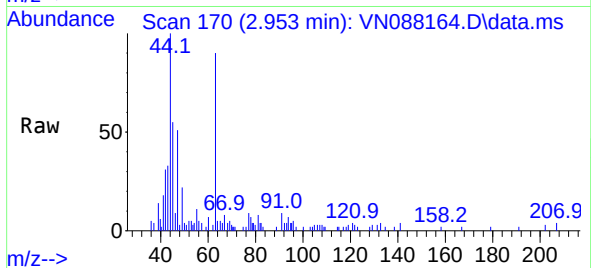




#5
Bromomethane
Concen: 0.519 ug/l
RT: 2.953 min Scan# 1155
Delta R.T. -0.018 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

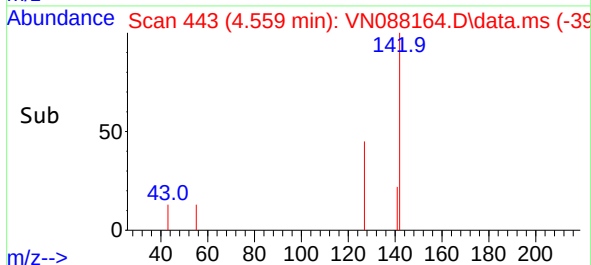
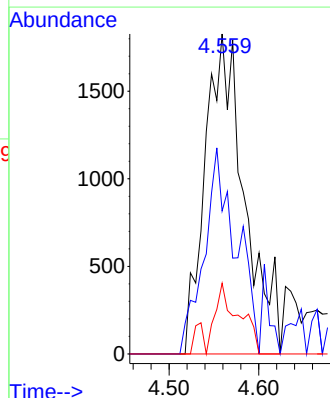
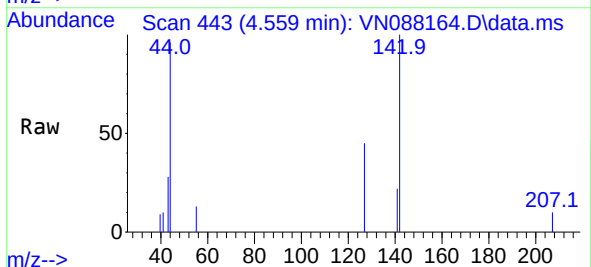
Instrument :
MSVOA_N
ClientSampleId :
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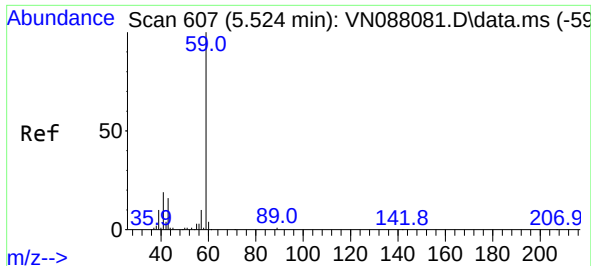
Tgt Ion: 94 Resp: 1033
Ion Ratio Lower Upper
94 100
96 18.1 75.4 113.2#



#10
Methyl Iodide
Concen: 6.100 ug/l
RT: 4.559 min Scan# 443
Delta R.T. -0.018 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 142 Resp: 5569
Ion Ratio Lower Upper
142 100
127 44.7 38.0 57.0
141 22.1 12.0 18.0#

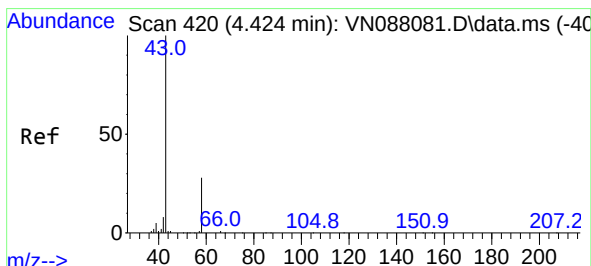
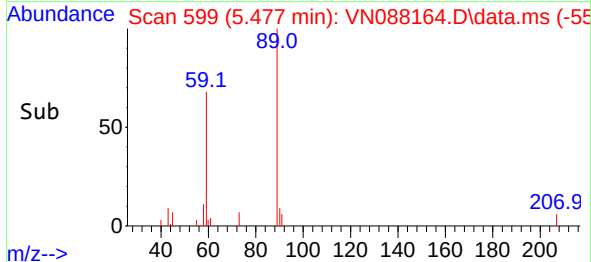
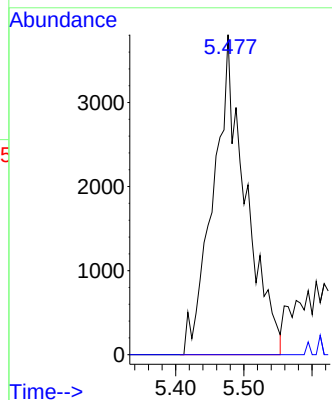
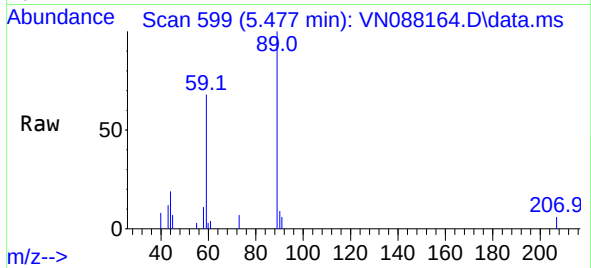




#11
Tert butyl alcohol
Concen: 18.332 ug/l
RT: 5.477 min Scan# 59
Delta R.T. -0.041 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

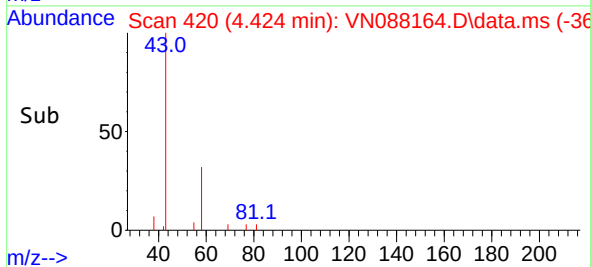
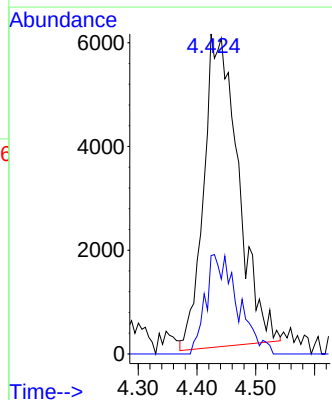
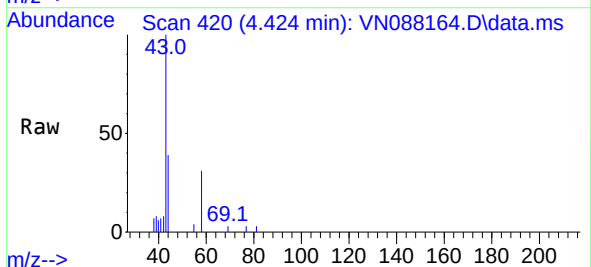
Instrument :
MSVOA_N
ClientSampleId :
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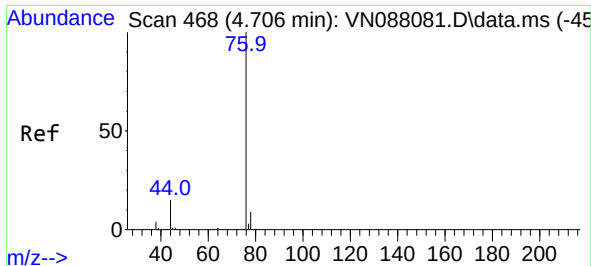
Tgt Ion: 59 Resp: 12565
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 12.300 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 43 Resp: 24584
Ion Ratio Lower Upper
43 100
58 32.1 22.6 33.8

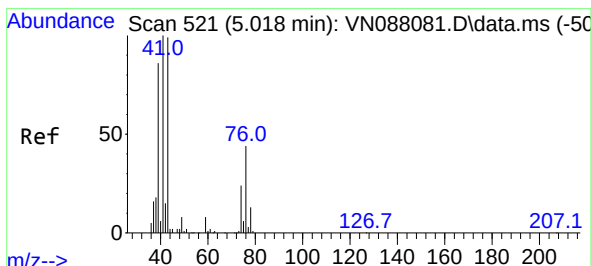
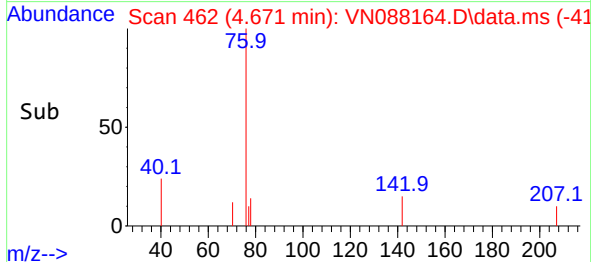
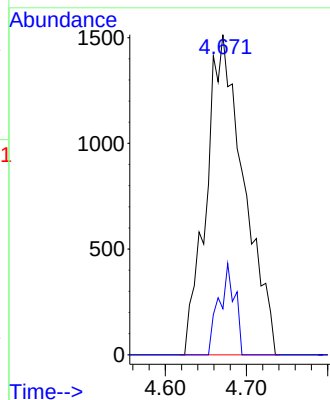
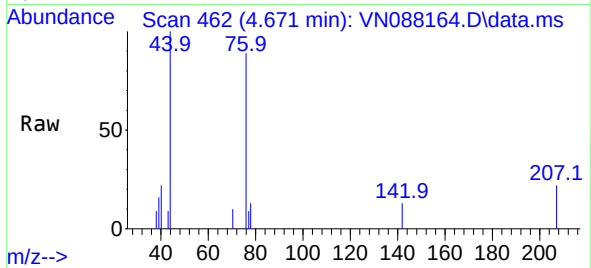




#17
Carbon Disulfide
Concen: 0.553 ug/l
RT: 4.671 min Scan# 415
Delta R.T. -0.030 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

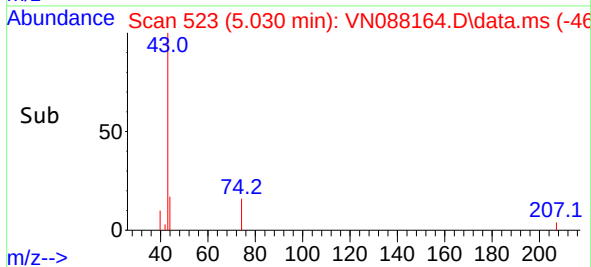
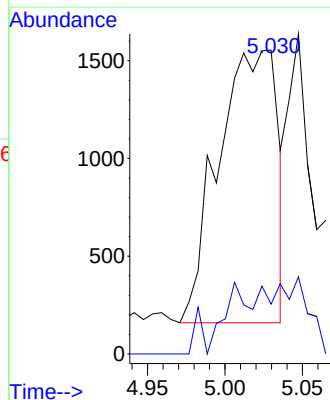
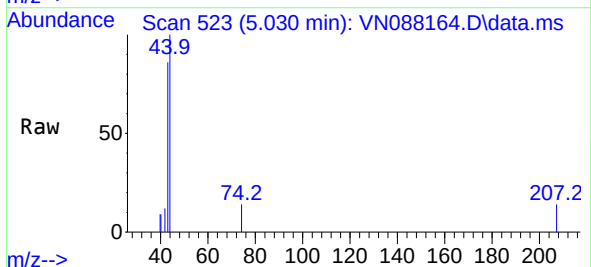
Instrument :
MSVOA_N
ClientSampleId :
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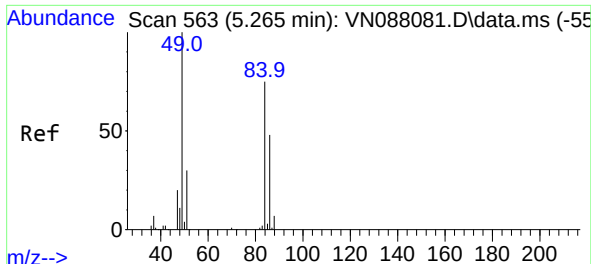
Tgt Ion: 76 Resp: 4862
Ion Ratio Lower Upper
76 100
78 14.4 7.6 11.4#



#18
Methyl Acetate
Concen: 0.906 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.017 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 43 Resp: 3706
Ion Ratio Lower Upper
43 100
74 19.4 17.6 26.4



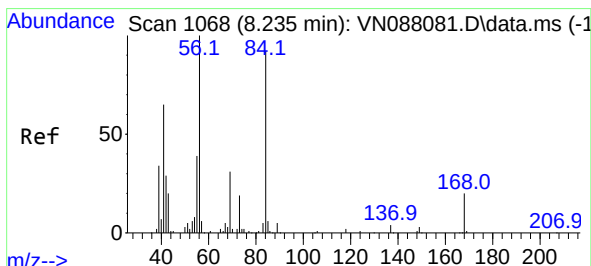
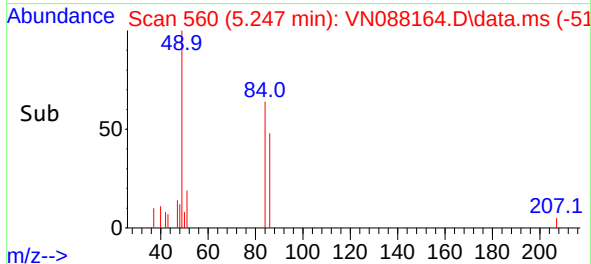
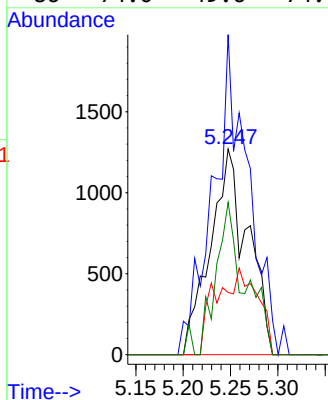
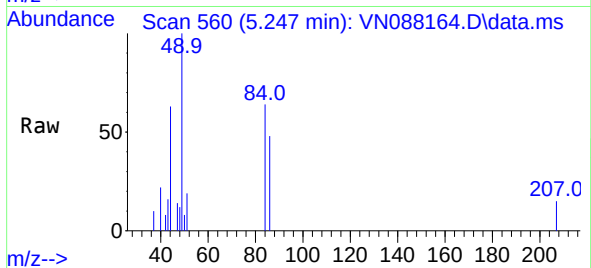


#20
Methylene Chloride
Concen: 1.882 ug/l
RT: 5.247 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
155

Tgt Ion: 84 Resp: 3506

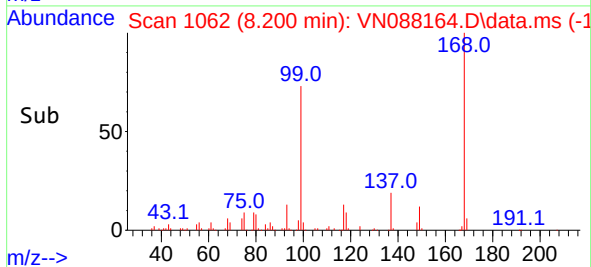
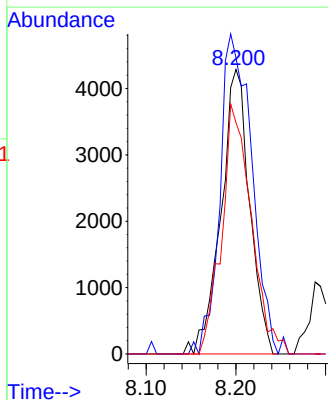
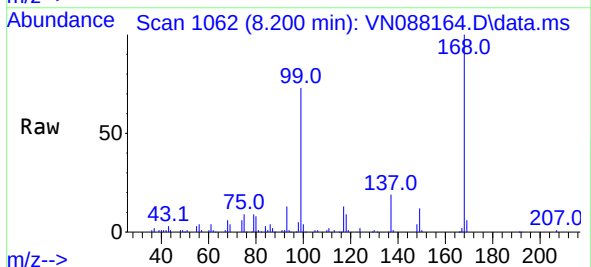
Ion	Ratio	Lower	Upper
84	100		
49	155.5	103.4	155.2#
51	30.3	33.8	50.8#
86	74.0	49.6	74.4

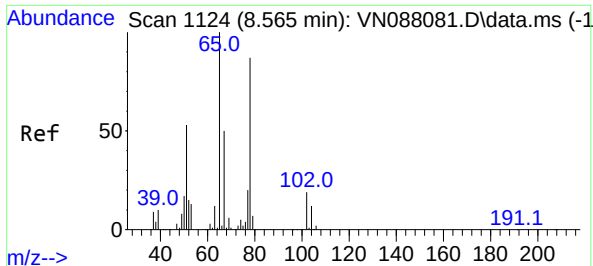


#31
Cyclohexane
Concen: 1.707 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 56 Resp: 9505

Ion	Ratio	Lower	Upper
56	100		
69	104.2	23.7	35.5#
84	81.3	64.7	97.1

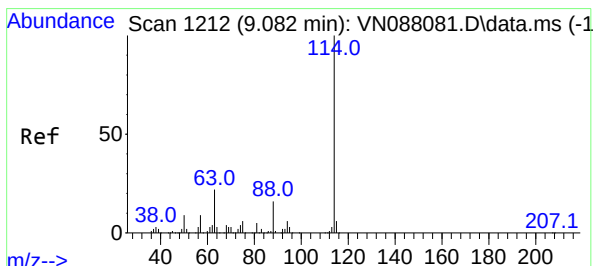
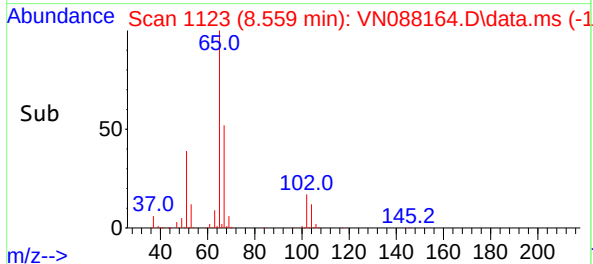
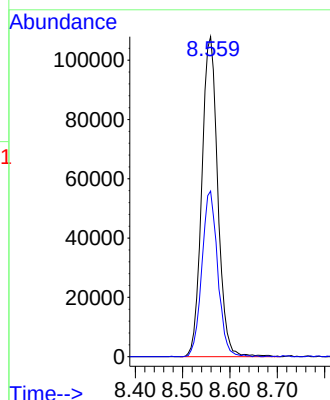
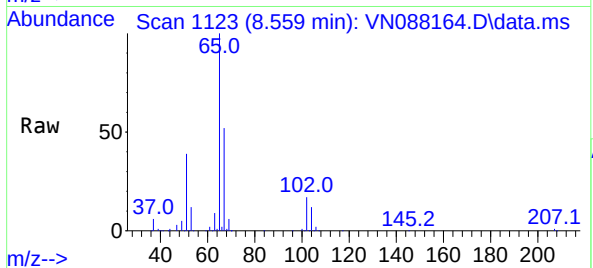




#33
1,2-Dichloroethane-d4
Concen: 63.439 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

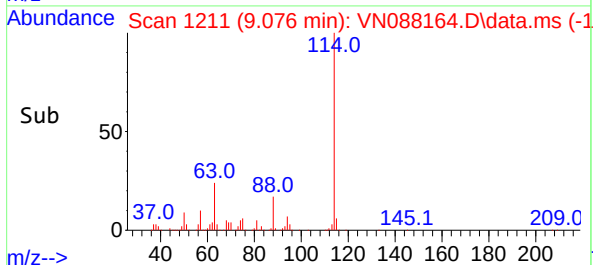
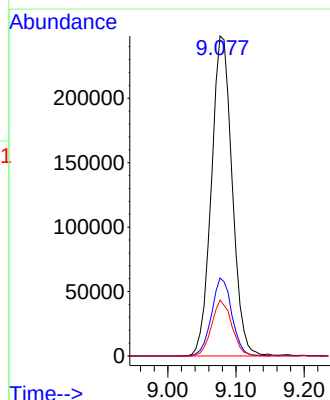
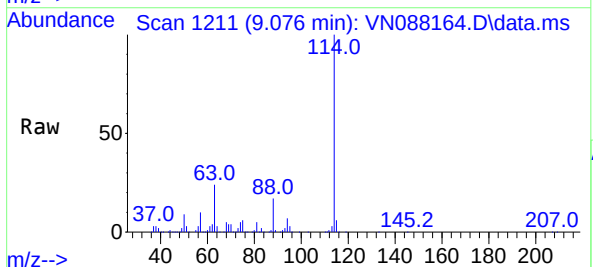
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ClientSampleId :
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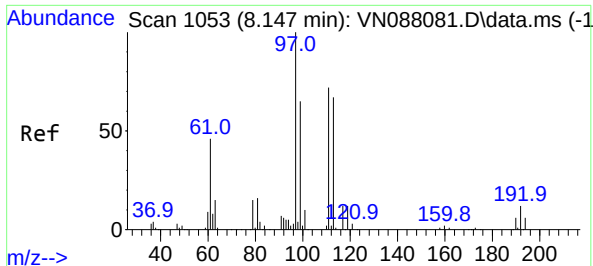
Tgt Ion: 65 Resp: 252394
Ion Ratio Lower Upper
65 100
67 51.4 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.076 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:114 Resp: 527445
Ion Ratio Lower Upper
114 100
63 24.4 0.0 45.2
88 17.5 0.0 33.4



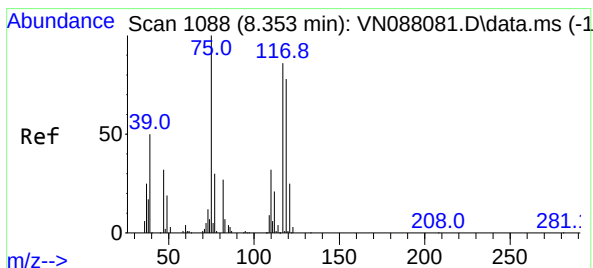
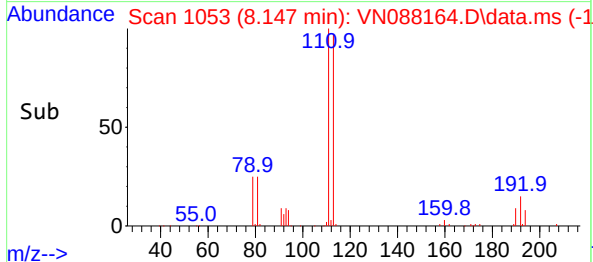
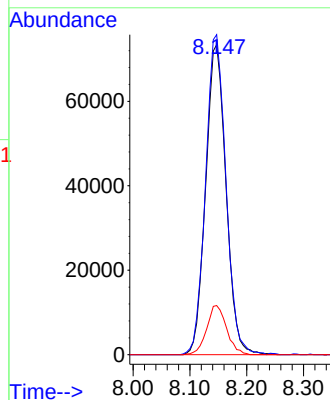
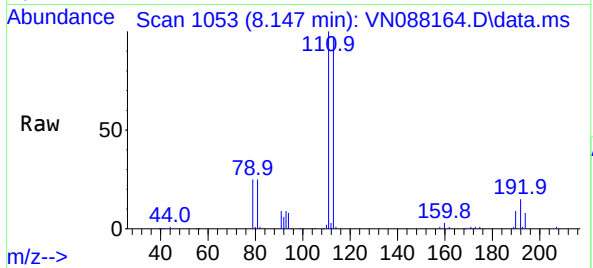


#35
 Dibromofluoromethane
 Concen: 51.402 ug/l
 RT: 8.147 min Scan# 1053
 Delta R.T. -0.006 min
 Lab File: VN088164.D
 Acq: 29 Oct 2025 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 155

Tgt Ion: 113 Resp: 182138

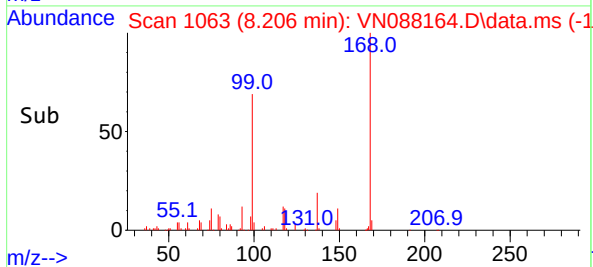
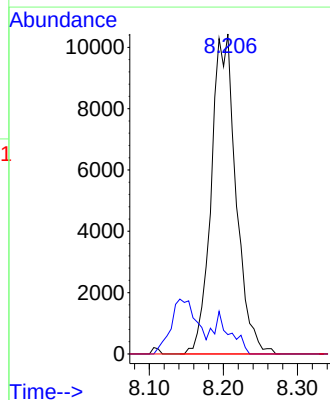
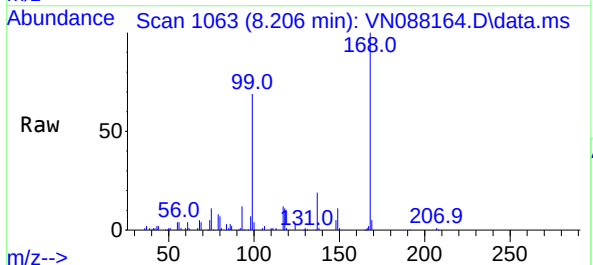
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.8	124.2
192	15.5	12.8	19.2

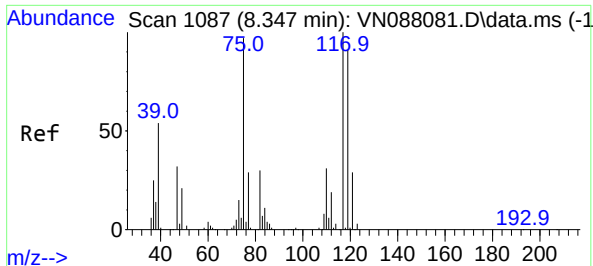


#36
 1,1-Dichloropropene
 Concen: 4.681 ug/l
 RT: 8.206 min Scan# 1063
 Delta R.T. -0.147 min
 Lab File: VN088164.D
 Acq: 29 Oct 2025 16:30

Tgt Ion: 75 Resp: 24216

Ion	Ratio	Lower	Upper
75	100		
110	9.1	15.9	47.6#
77	0.0	24.4	36.6#

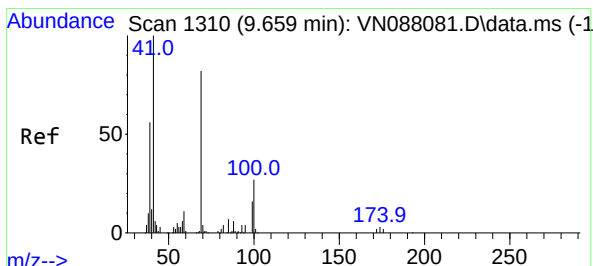
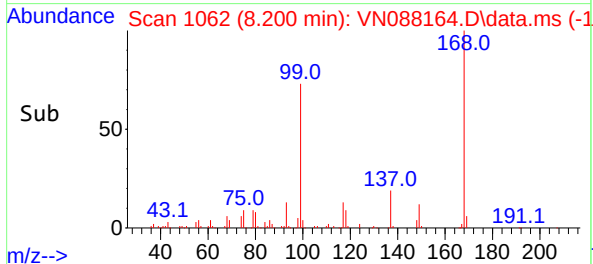
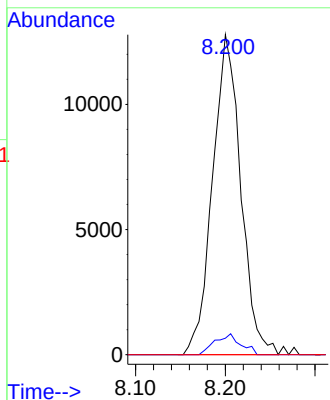
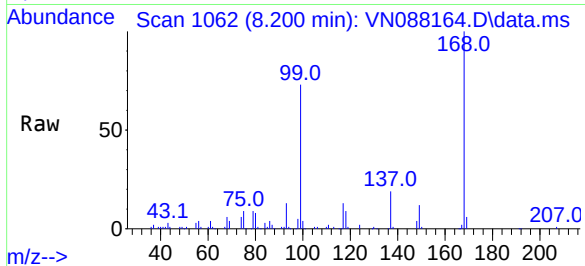




#38
Carbon Tetrachloride
Concen: 5.218 ug/l
RT: 8.200 min Scan# 1155
Delta R.T. -0.141 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

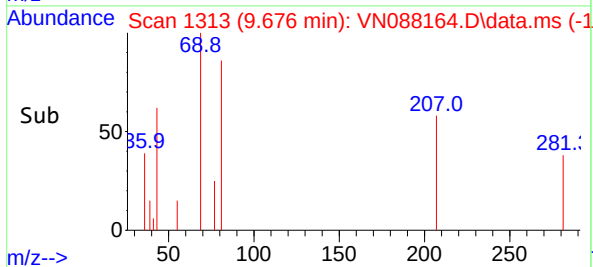
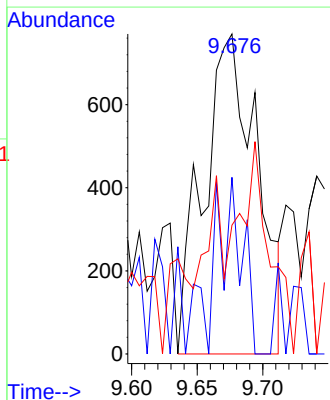
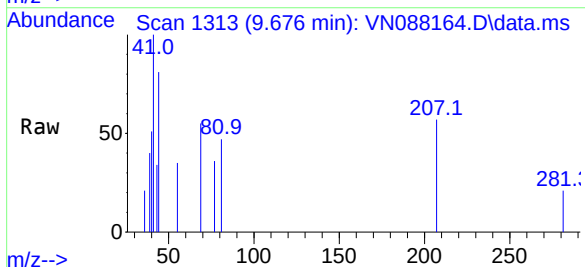
Instrument :
MSVOA_N
ClientSampleId :
155

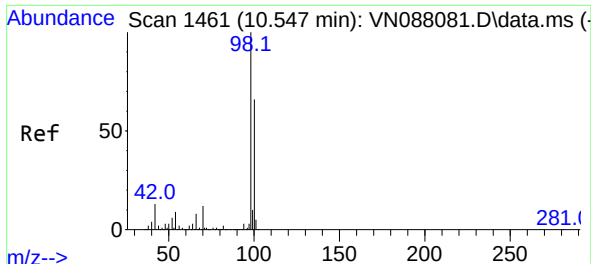
Tgt Ion:117 Resp: 27881
Ion Ratio Lower Upper
117 100
119 5.1 79.0 118.6#
121 0.0 25.0 37.6#



#48
Methyl methacrylate
Concen: 0.459 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. 0.012 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 41 Resp: 2176
Ion Ratio Lower Upper
41 100
69 24.0 62.7 94.1#
39 12.3 52.9 79.3#

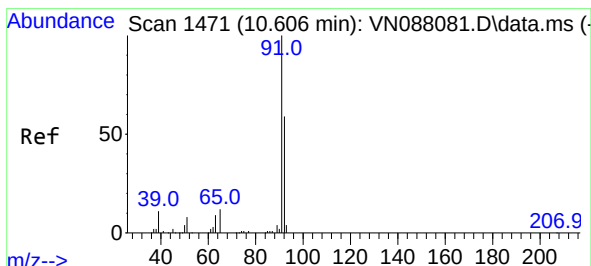
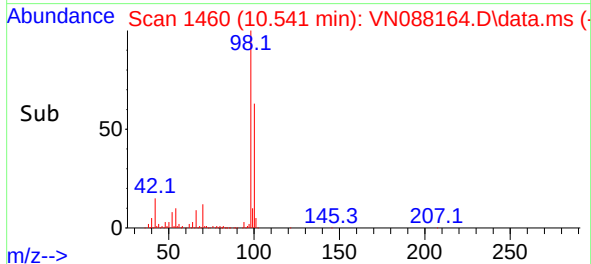
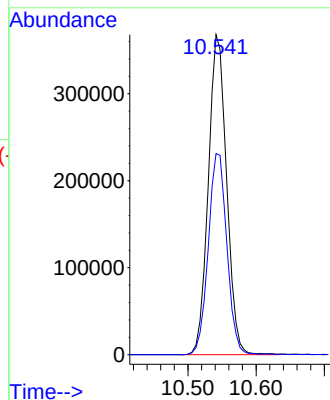
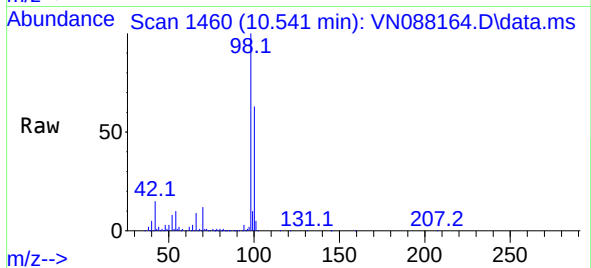




#50
Toluene-d8
Concen: 50.303 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

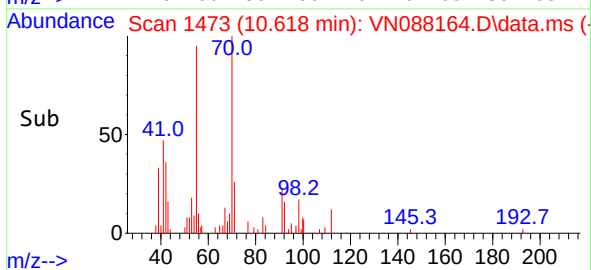
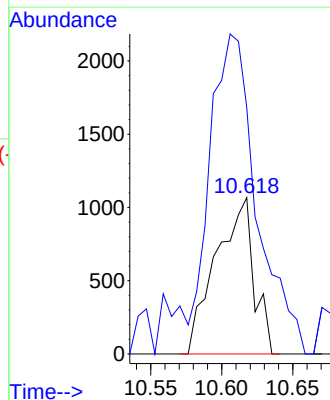
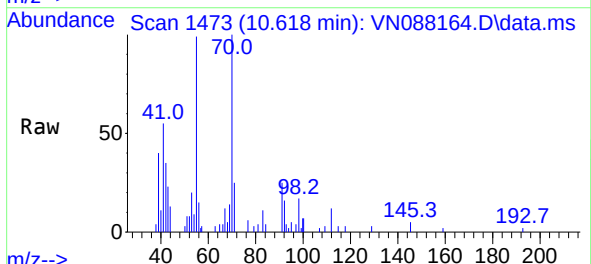
Instrument :
MSVOA_N
ClientSampleId :
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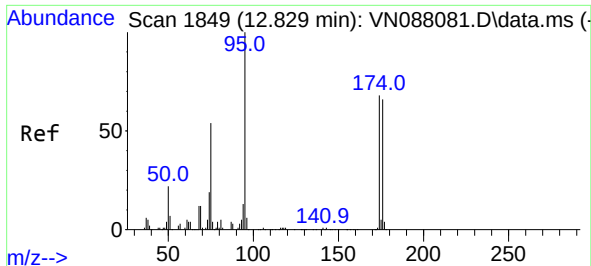
Tgt Ion: 98 Resp: 686803
Ion Ratio Lower Upper
98 100
100 64.1 52.8 79.2



#52
Toluene
Concen: 0.204 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. 0.012 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 92 Resp: 1981
Ion Ratio Lower Upper
92 100
91 252.9 140.4 210.6#

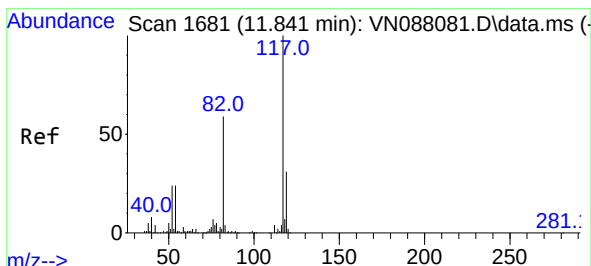
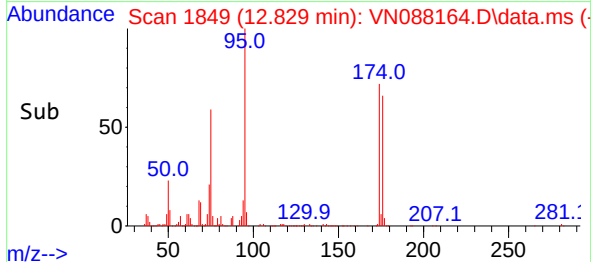
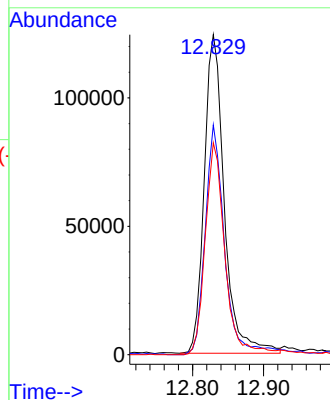
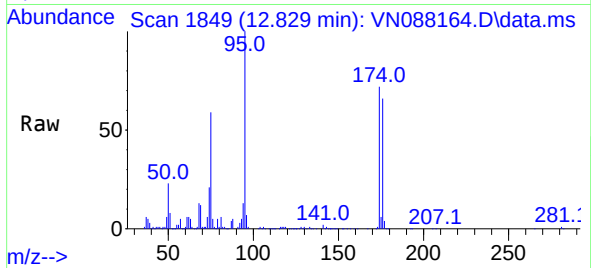




#62
4-Bromofluorobenzene
Concen: 50.546 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

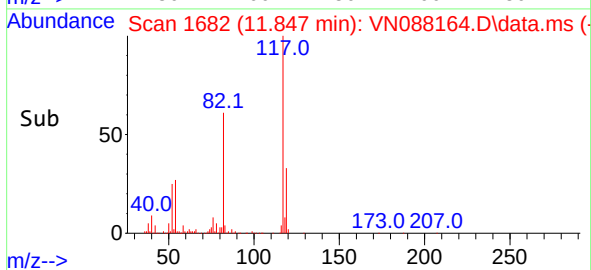
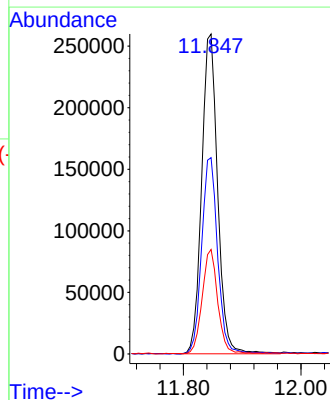
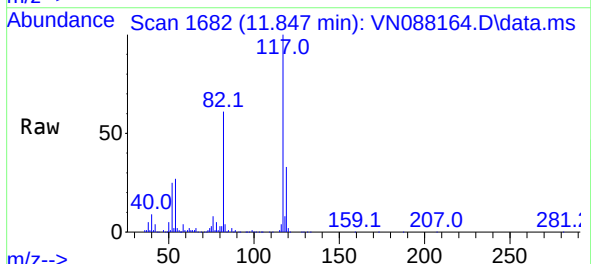
Instrument :
MSVOA_N
ClientSampleId :
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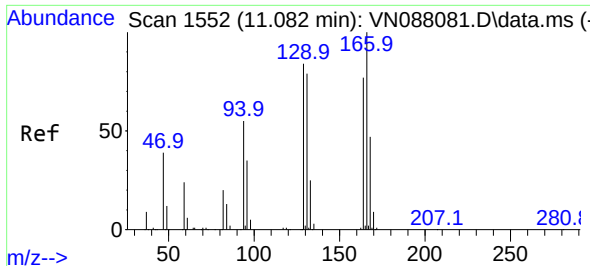
Tgt Ion: 95 Resp: 243725
Ion Ratio Lower Upper
95 100
174 71.0 0.0 138.4
176 65.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 117 Resp: 490531
Ion Ratio Lower Upper
117 100
82 61.4 47.4 71.2
119 32.5 24.3 36.5

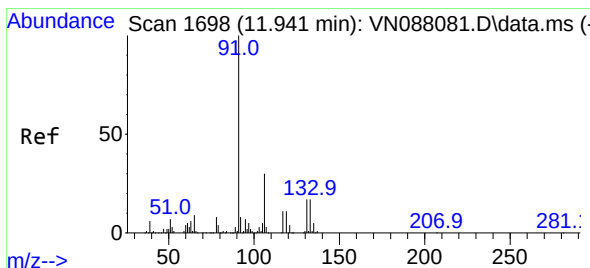
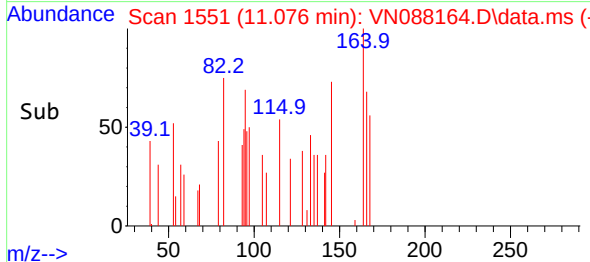
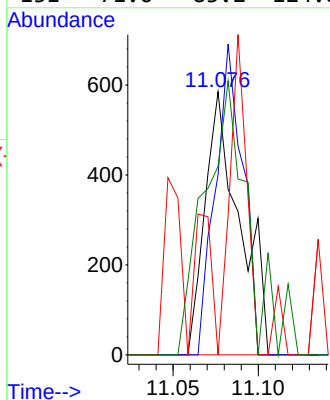
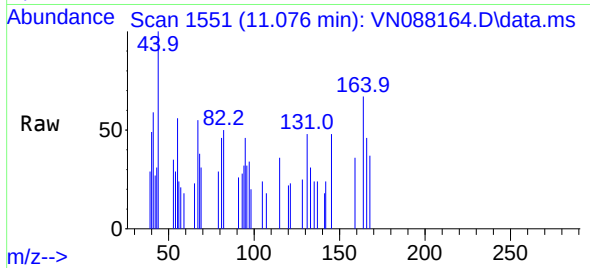




#64
Tetrachloroethene
Concen: 0.255 ug/l
RT: 11.076 min Scan# 155
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

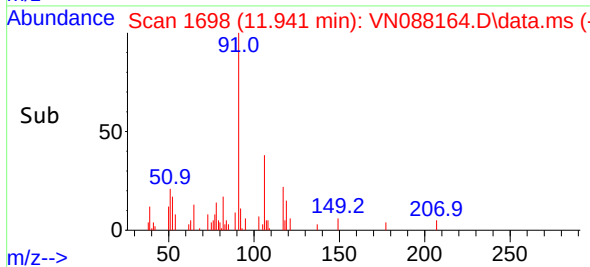
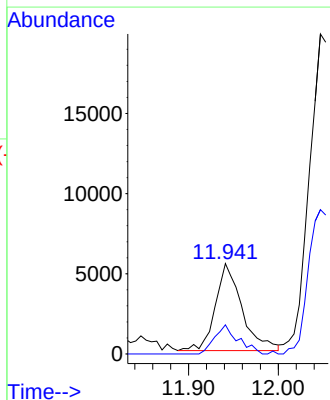
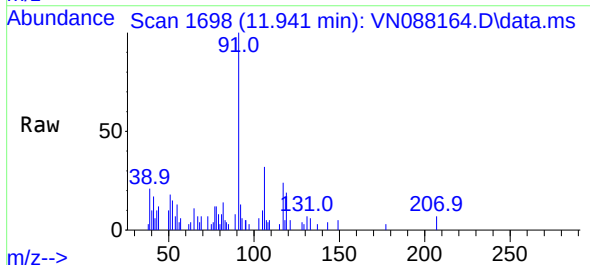
Instrument :
MSVOA_N
ClientSampleId :
155

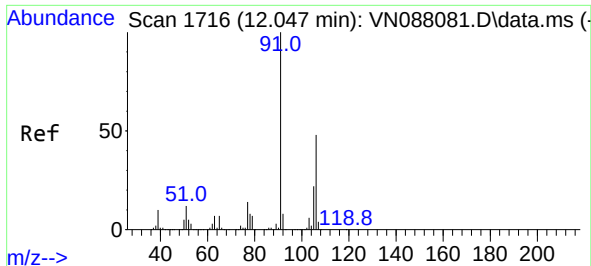
Tgt Ion:164 Resp: 826
Ion Ratio Lower Upper
164 100
166 68.4 97.7 146.5#
129 0.0 85.9 128.9#
131 71.6 83.2 124.8#



#67
Ethyl Benzene
Concen: 0.571 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 91 Resp: 11169
Ion Ratio Lower Upper
91 100
106 33.5 24.1 36.1

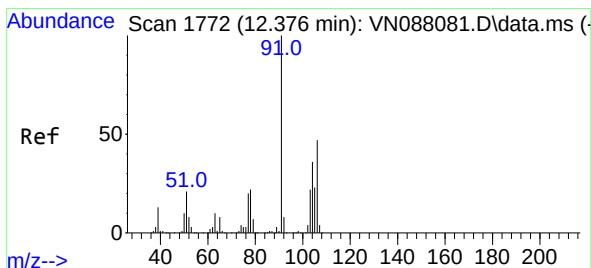
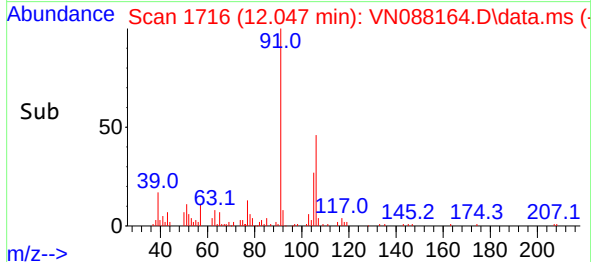
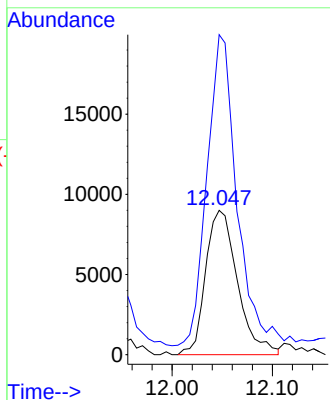
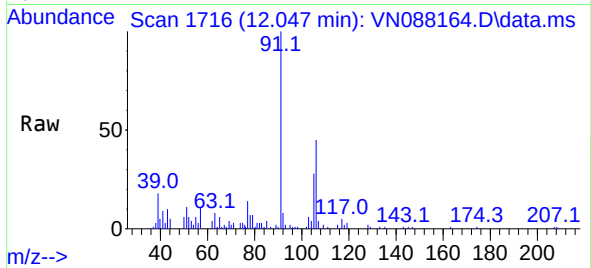




#68
m/p-Xylenes
Concen: 2.719 ug/l
RT: 12.047 min Scan# 1155
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

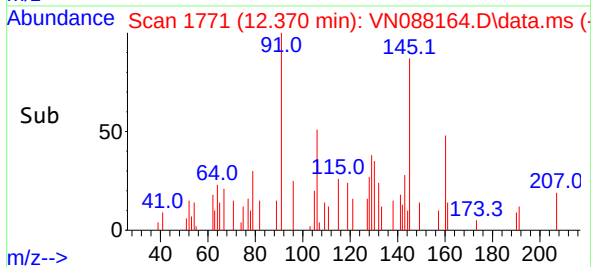
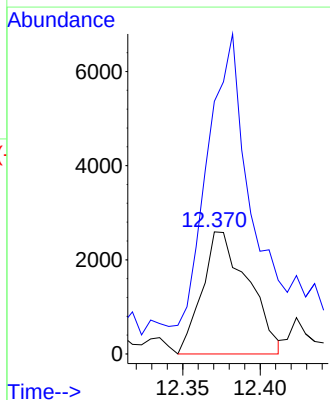
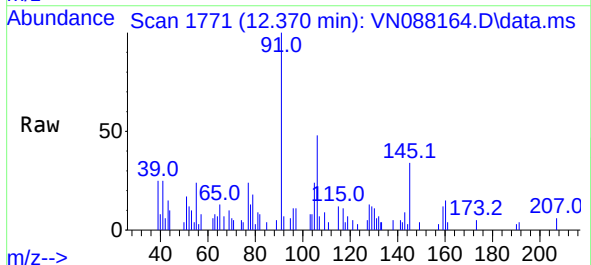
Instrument :
MSVOA_N
ClientSampleId :
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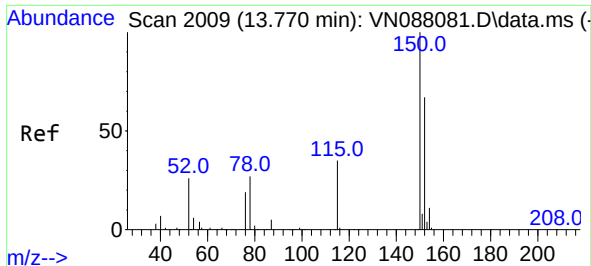
Tgt Ion:106 Resp: 19917
Ion Ratio Lower Upper
106 100
91 203.6 169.3 253.9



#69
o-Xylene
Concen: 0.773 ug/l
RT: 12.370 min Scan# 1771
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:106 Resp: 5368
Ion Ratio Lower Upper
106 100
91 215.1 111.4 334.2

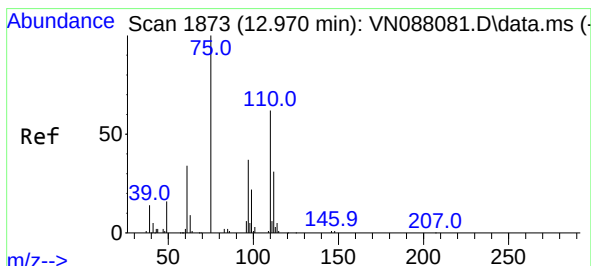
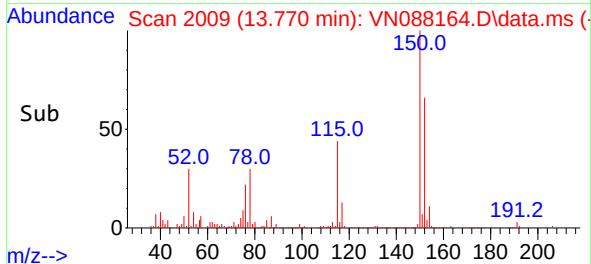
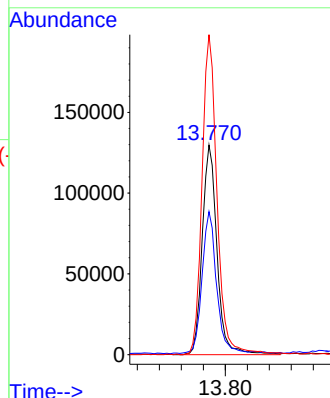
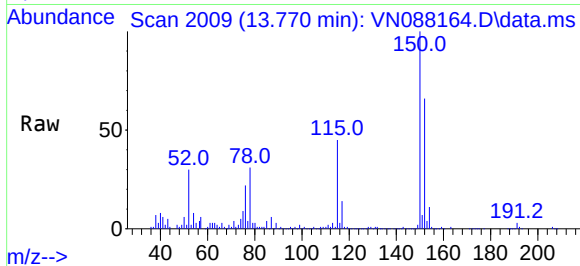




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088164.D
 Acq: 29 Oct 2025 16:30

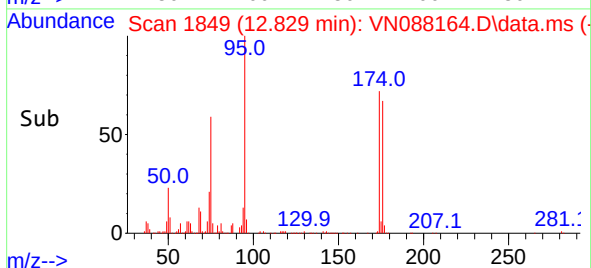
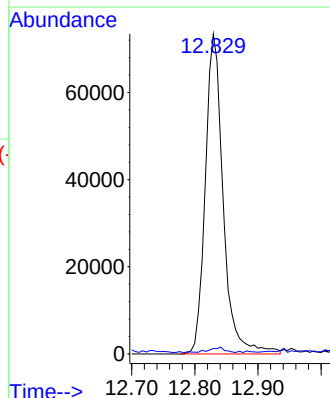
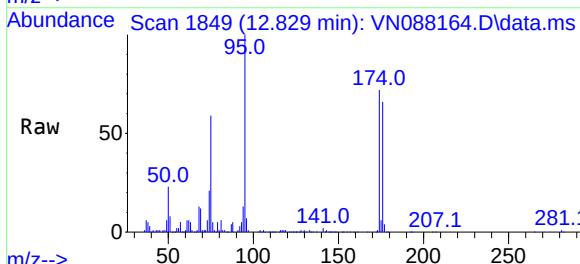
Instrument :
 MSVOA_N
 ClientSampleId :
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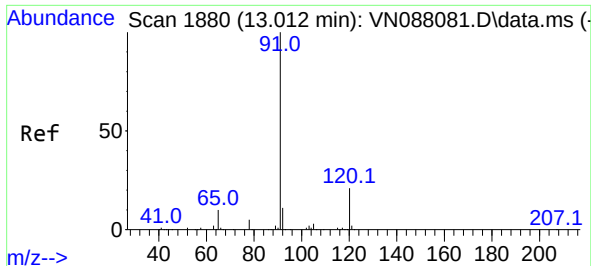
Tgt Ion:152 Resp: 243124
 Ion Ratio Lower Upper
 152 100
 115 66.3 32.3 96.8
 150 154.8 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.960 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088164.D
 Acq: 29 Oct 2025 16:30

Tgt Ion: 75 Resp: 144302
 Ion Ratio Lower Upper
 75 100
 77 1.7 89.1 267.4#

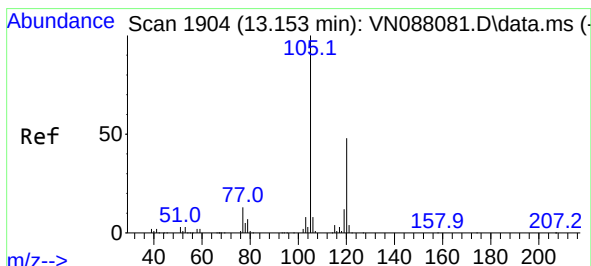
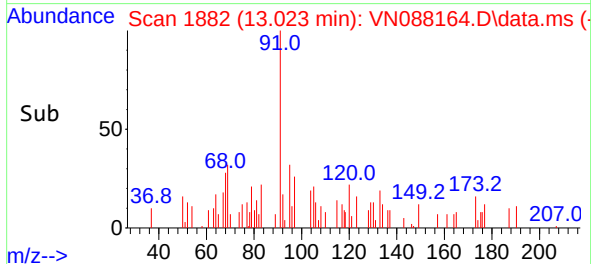
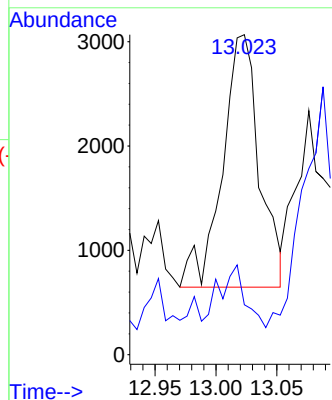
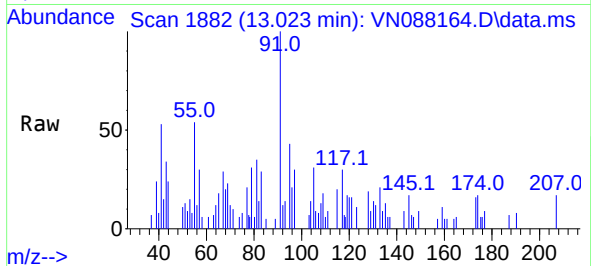




#78
n-propylbenzene
Concen: 0.224 ug/l
RT: 13.023 min Scan# 1155
Delta R.T. 0.011 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

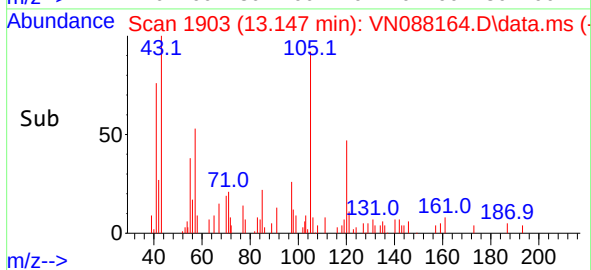
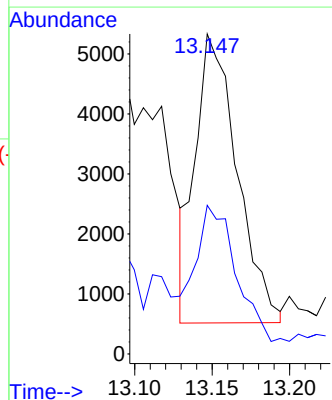
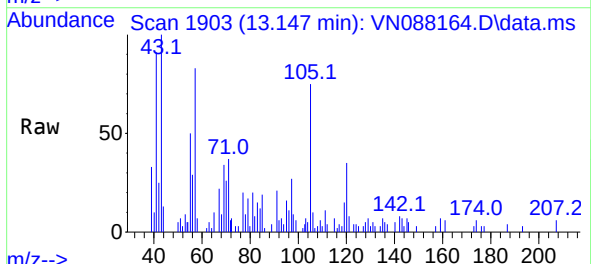
Instrument :
MSVOA_N
ClientSampleId :
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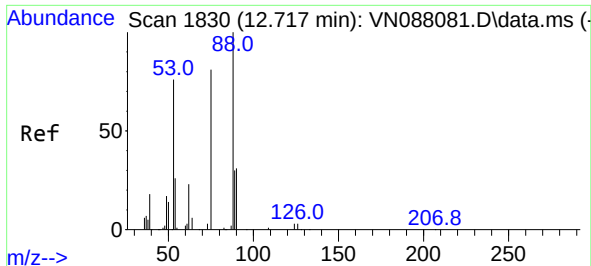
Tgt Ion: 91 Resp: 5115
Ion Ratio Lower Upper
91 100
120 33.2 10.7 32.1#



#80
1,3,5-Trimethylbenzene
Concen: 0.578 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:105 Resp: 9005
Ion Ratio Lower Upper
105 100
120 55.4 23.2 69.6

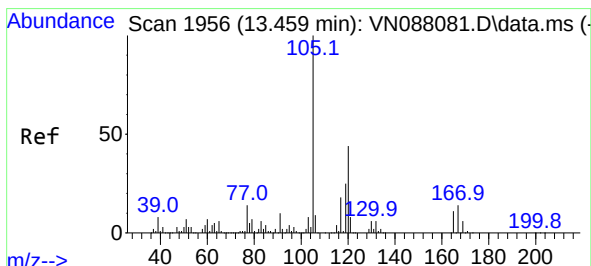
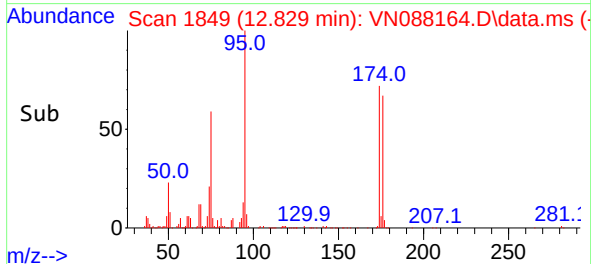
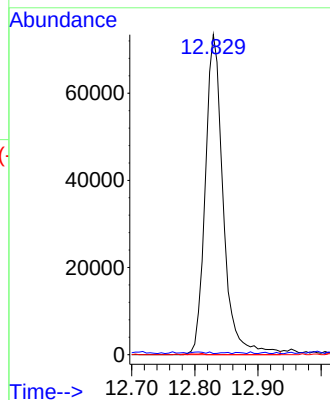
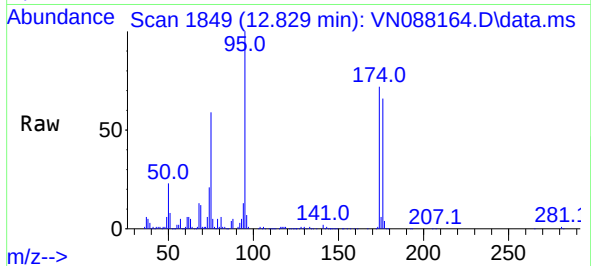




#81
trans-1,4-Dichloro-2-butene
Concen: 72.417 ug/l
RT: 12.829 min Scan# 1155
Delta R.T. 0.112 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

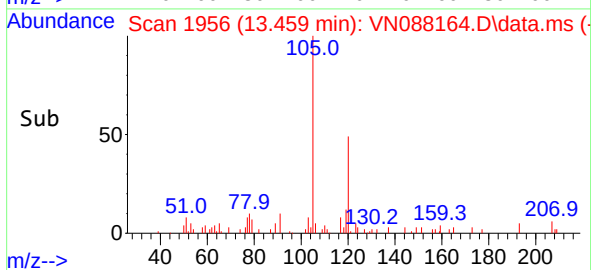
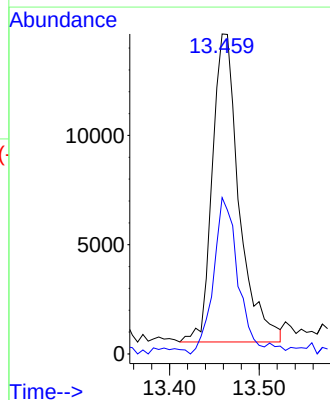
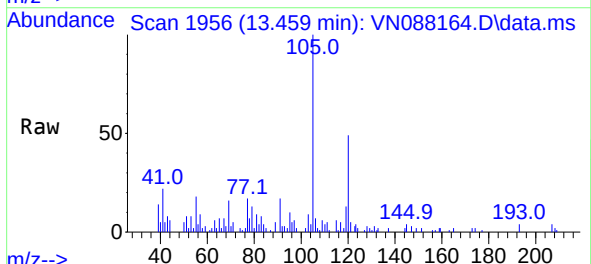
Instrument :
MSVOA_N
ClientSampleId :
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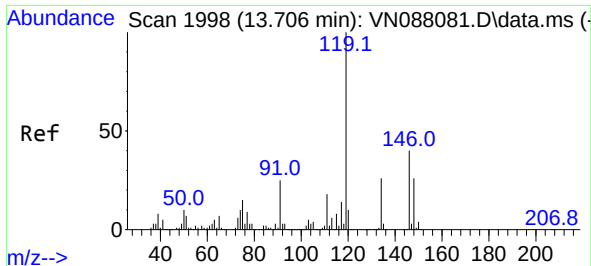
Tgt Ion: 75 Resp: 144302
Ion Ratio Lower Upper
75 100
53 0.3 101.8 152.6#
89 0.2 35.6 53.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.882 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:105 Resp: 29322
Ion Ratio Lower Upper
105 100
120 45.9 22.0 66.0

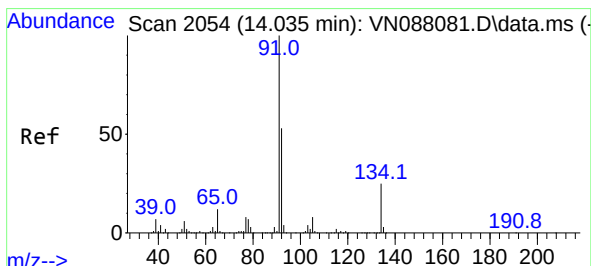
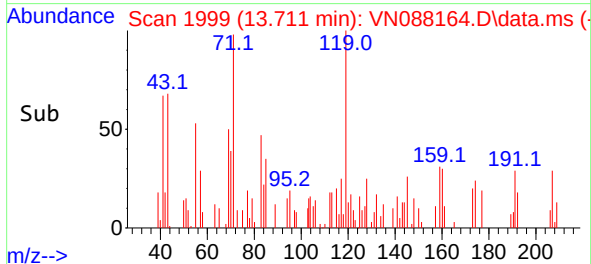
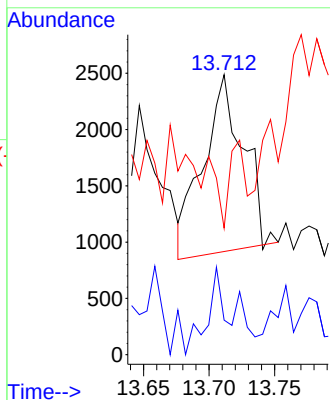
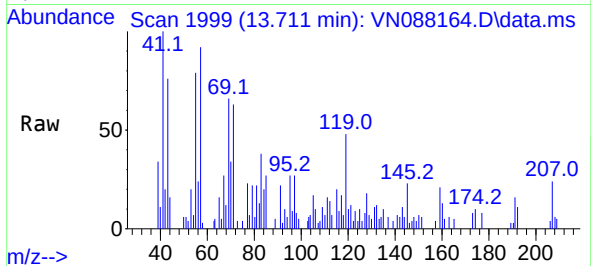




#86
p-Isopropyltoluene
Concen: 0.205 ug/l
RT: 13.711 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

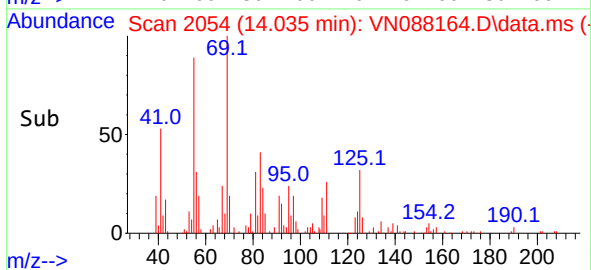
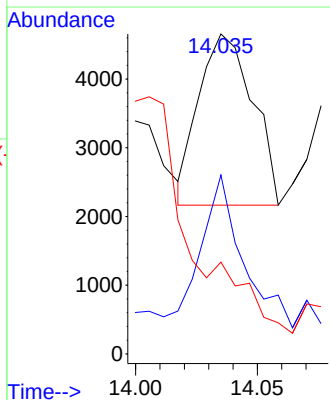
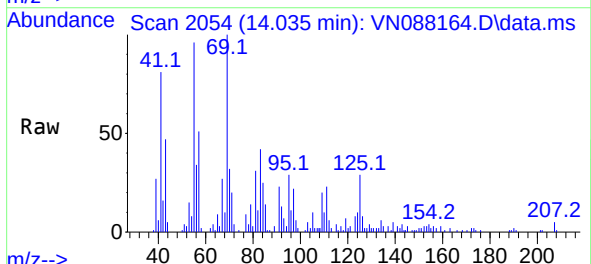
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ClientSampleId :
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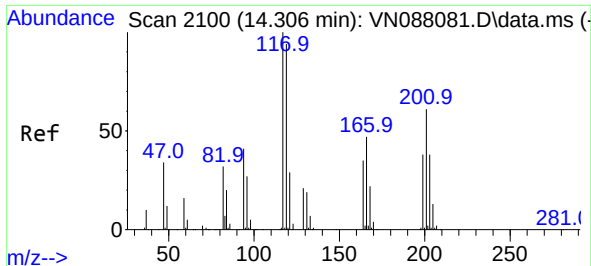
Tgt Ion:	119	Resp:	3362
Ion	Ratio	Lower	Upper
119	100		
134	21.6	12.7	38.0
91	18.4	12.5	37.5



#89
n-Butylbenzene
Concen: 0.236 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:	91	Resp:	3835
Ion	Ratio	Lower	Upper
91	100		
92	68.9	25.9	77.8
134	0.0	11.7	35.0

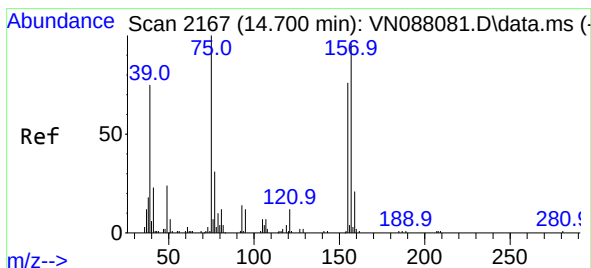
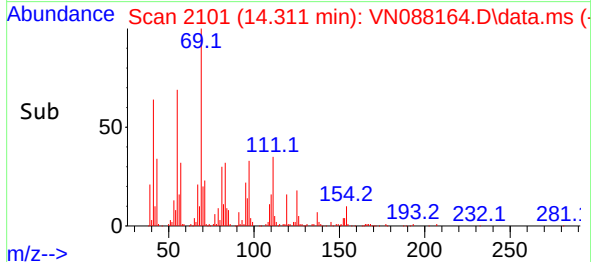
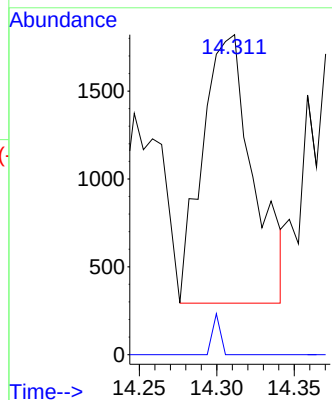
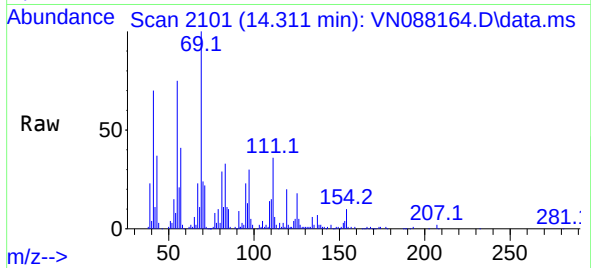




#90
Hexachloroethane
Concen: 1.093 ug/l
RT: 14.311 min Scan# 2100
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

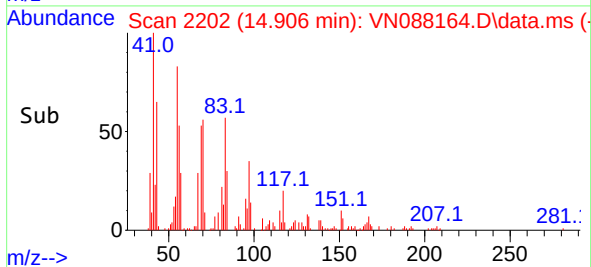
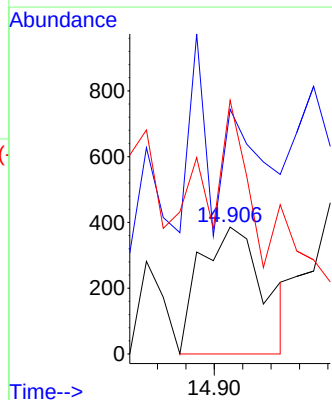
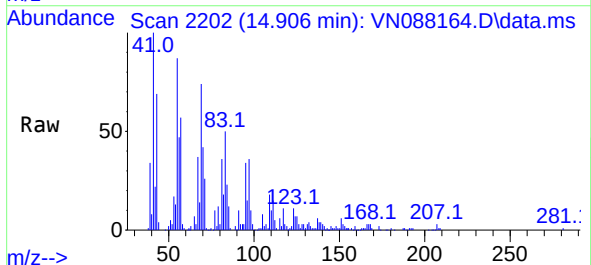
Instrument :
MSVOA_N
ClientSampleId :
155

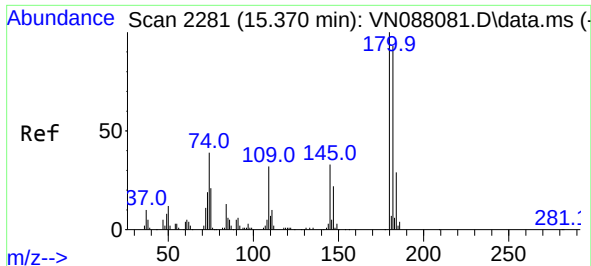
Tgt Ion:117 Resp: 3471
Ion Ratio Lower Upper
117 100
201 2.4 29.1 87.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.442 ug/l
RT: 14.906 min Scan# 2202
Delta R.T. 0.206 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion: 75 Resp: 600
Ion Ratio Lower Upper
75 100
155 91.2 36.6 109.9
157 109.0 45.6 136.9

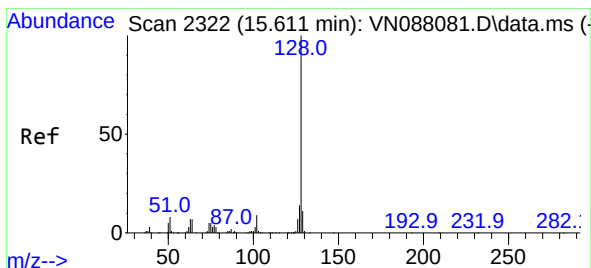
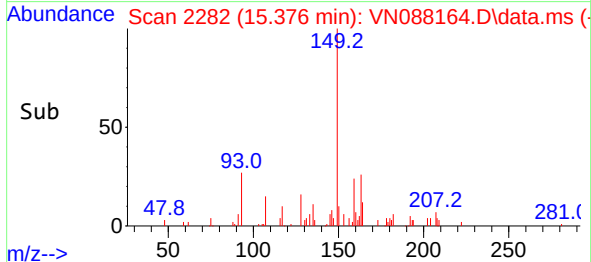
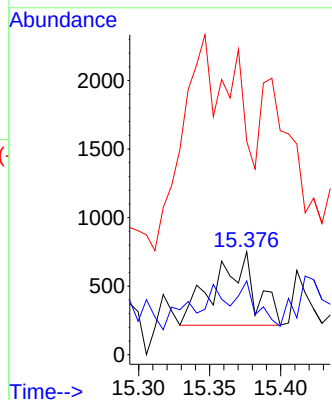
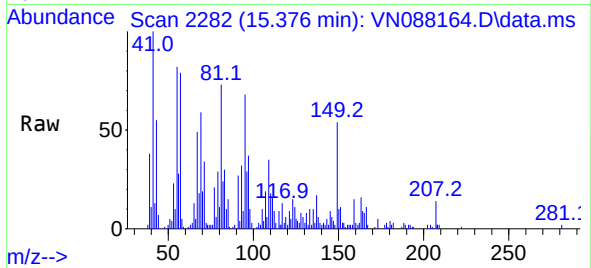




#93
1,2,4-Trichlorobenzene
Concen: 0.228 ug/l
RT: 15.376 min Scan# 2115
Delta R.T. 0.012 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

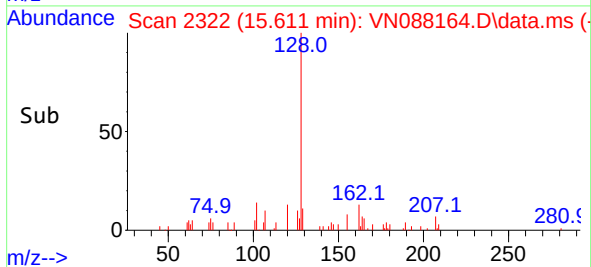
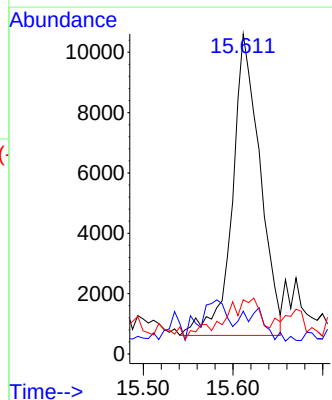
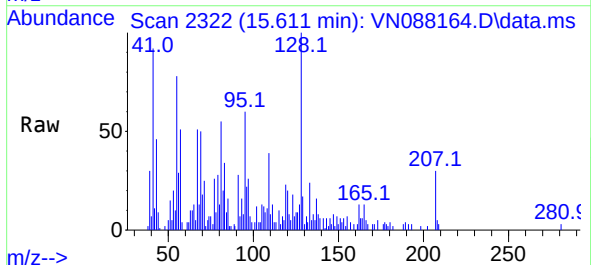
Instrument :
MSVOA_N
ClientSampleId :
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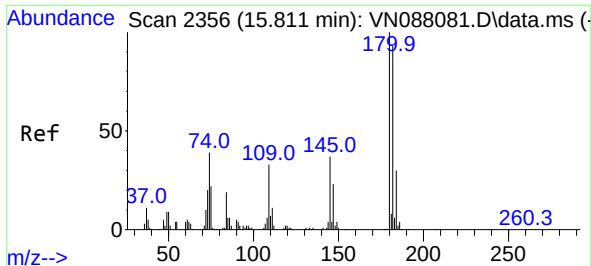
Tgt Ion:180 Resp: 1075
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.9#
145 222.2 16.5 49.5#



#95
Naphthalene
Concen: 1.326 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Tgt Ion:128 Resp: 21413
Ion Ratio Lower Upper
128 100
127 11.4 10.6 15.8
129 10.5 8.6 12.8





#96
1,2,3-Trichlorobenzene
Concen: 0.466 ug/l
RT: 15.829 min Scan# 21
Delta R.T. 0.017 min
Lab File: VN088164.D
Acq: 29 Oct 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
155

Tgt Ion:180 Resp: 2105
Ion Ratio Lower Upper
180 100
182 64.9 46.8 140.3
145 0.0 17.3 52.0#

