

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
 Data File : VN084542.D
 Acq On : 28 Oct 2024 16:17
 Operator : JC\MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VIBLK

Quant Time: Oct 28 18:35:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

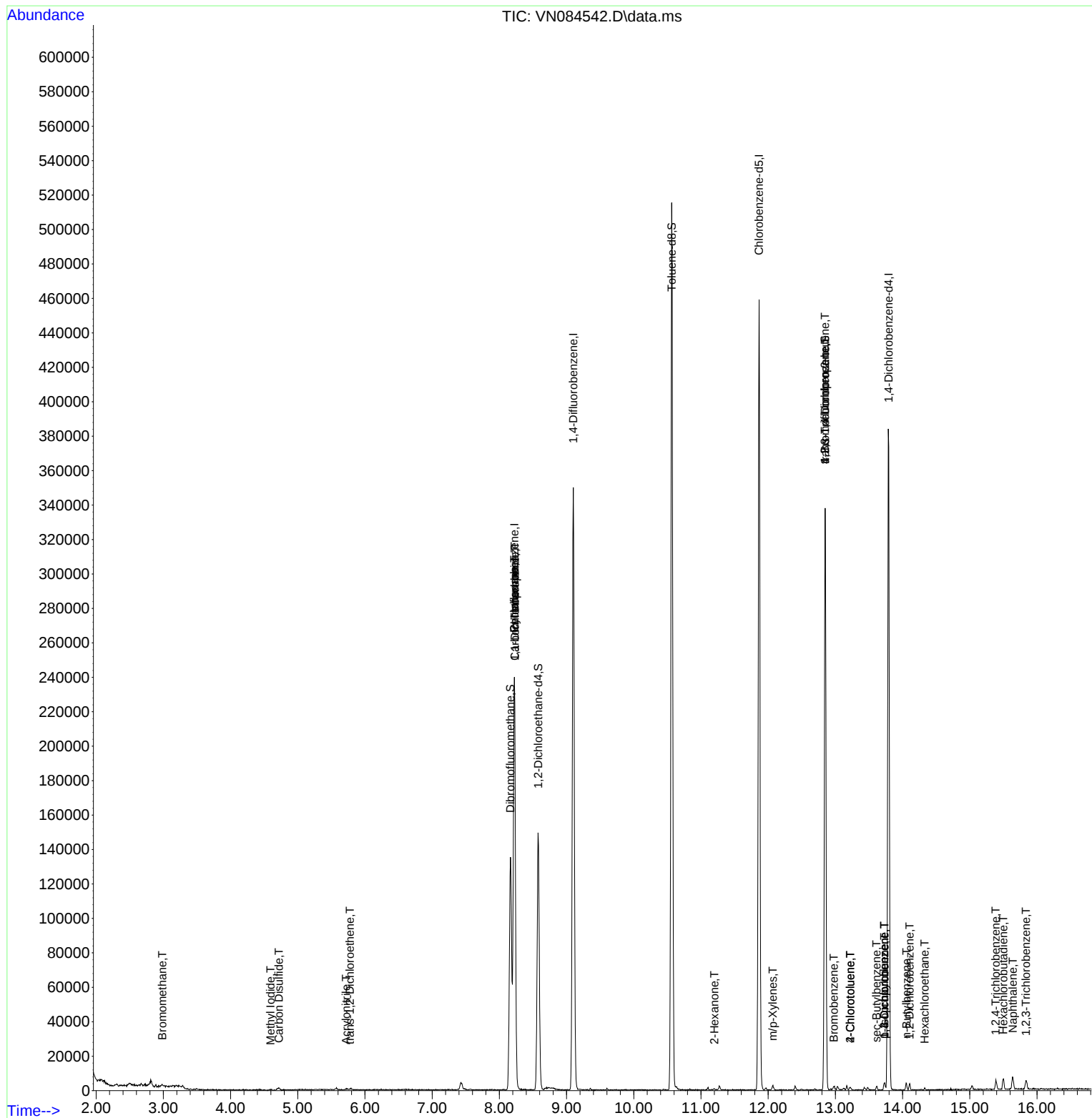
Internal Standards						
1) Pentafluorobenzene	8.224	168	173118	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299505	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256149	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	103321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123637	48.168	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.340%		
35) Dibromofluoromethane	8.165	113	98225	49.746	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.500%		
50) Toluene-d8	10.565	98	350946	48.310	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.620%		
62) 4-Bromofluorobenzene	12.847	95	119012	44.969	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.940%		
Target Compounds						Qvalue
5) Bromomethane	2.983	94	620	0.415	ug/l #	1
10) Methyl Iodide	4.595	142	687	0.264	ug/l #	40
15) Acrylonitrile	5.718	53	366	0.342	ug/l #	60
17) Carbon Disulfide	4.718	76	3118	0.505	ug/l #	75
21) trans-1,2-Dichloroethene	5.777	96	578	0.283	ug/l #	81
31) Cyclohexane	8.224	56	4024	1.058	ug/l #	3
36) 1,1-Dichloropropene	8.230	75	14829	5.170	ug/l #	50
38) Carbon Tetrachloride	8.230	117	18141	5.766	ug/l #	15
59) 2-Hexanone	11.200	43	776	0.371	ug/l	68
68) m/p-Xylenes	12.071	106	894	0.241	ug/l	83
76) 1,2,3-Trichloropropane	12.847	75	63191	29.958	ug/l #	1
77) Bromobenzene	12.976	156	400	0.210	ug/l	65
79) 2-Chlorotoluene	13.223	91	1678	0.288	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	63191	71.823	ug/l #	11
82) 4-Chlorotoluene	13.223	91	1678	0.286	ug/l	92
85) sec-Butylbenzene	13.612	105	2060	0.270	ug/l	96
86) p-Isopropyltoluene	13.729	119	1495	0.237	ug/l	93
87) 1,3-Dichlorobenzene	13.729	146	1574	0.441	ug/l	92
88) 1,4-Dichlorobenzene	13.729	146	1574	0.437	ug/l	91
89) n-Butylbenzene	14.059	91	2860	0.500	ug/l	85
90) Hexachloroethane	14.329	117	283	0.221	ug/l #	45
91) 1,2-Dichlorobenzene	14.106	146	1399	0.400	ug/l	88
93) 1,2,4-Trichlorobenzene	15.388	180	2251	1.306	ug/l	92
94) Hexachlorobutadiene	15.500	225	1419	1.651	ug/l	90
95) Naphthalene	15.641	128	7340	1.285	ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2516	1.459	ug/l	94

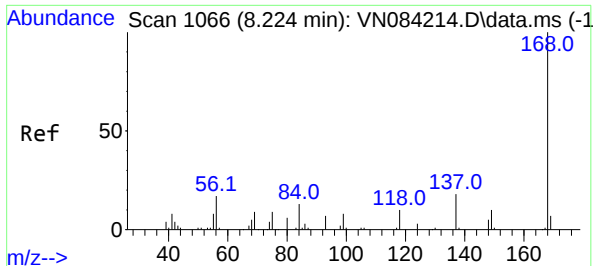
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VIBLK

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Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

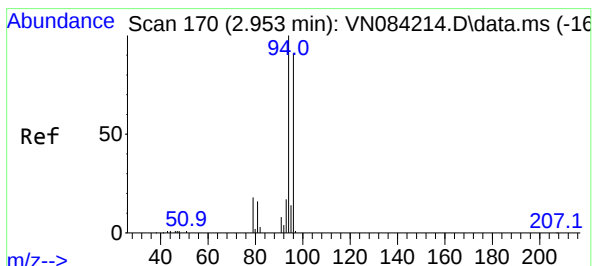
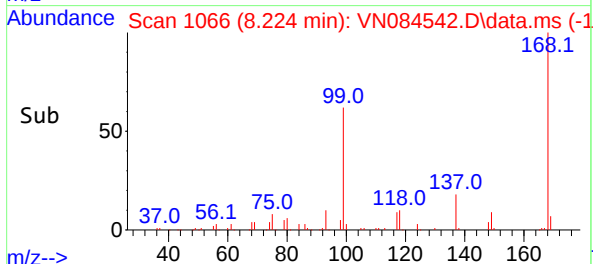
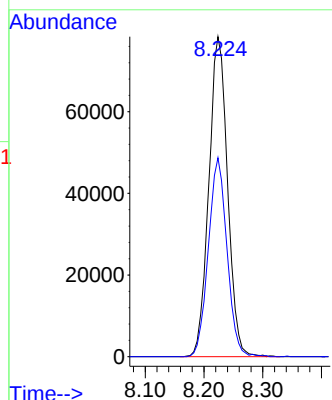
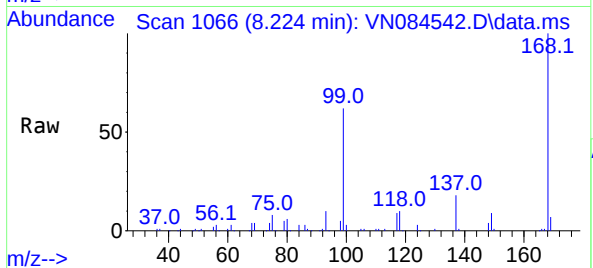




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

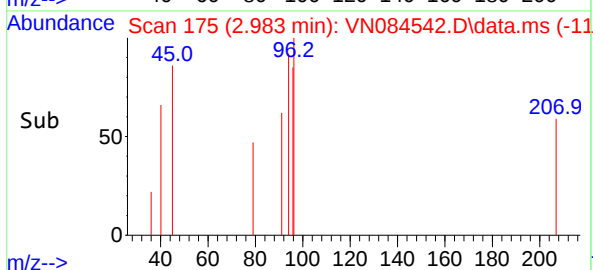
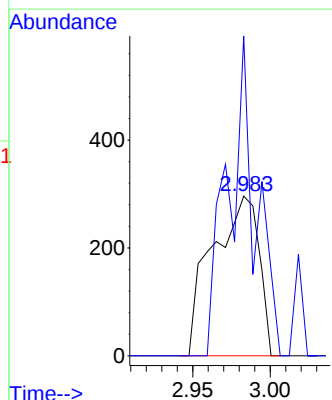
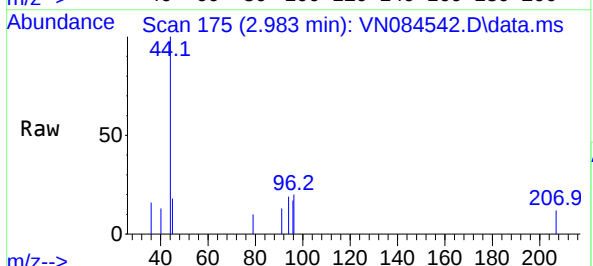
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

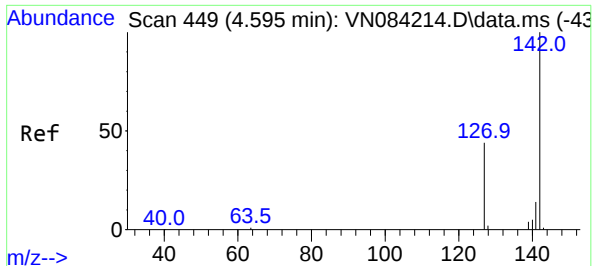
Tgt Ion:168 Resp: 173118
Ion Ratio Lower Upper
168 100
99 62.2 54.2 81.2



#5
Bromomethane
Concen: 0.415 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.029 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

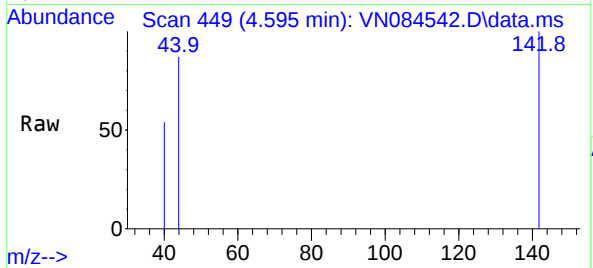
Tgt Ion: 94 Resp: 620
Ion Ratio Lower Upper
94 100
96 200.3 72.9 109.3#





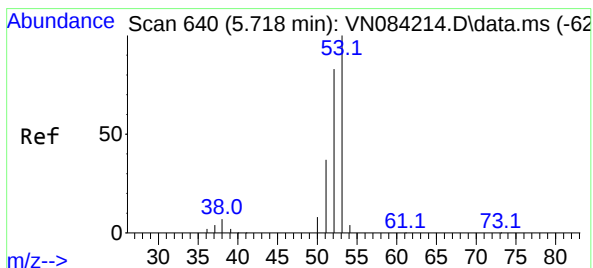
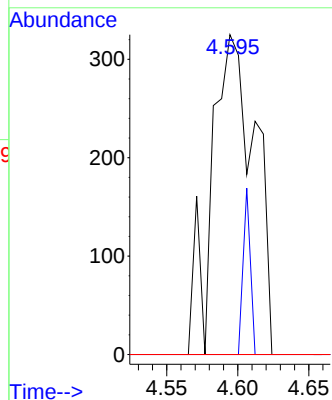
#10
Methyl Iodide
Concen: 0.264 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Instrument :
MSVOA_N
ClientSampleId :
VIBLK

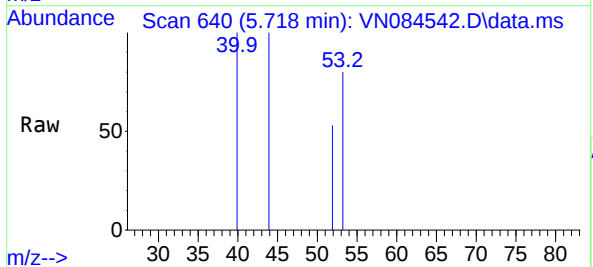


Tgt Ion:142 Resp: 687

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.3	52.9#
141	0.0	11.0	16.6#

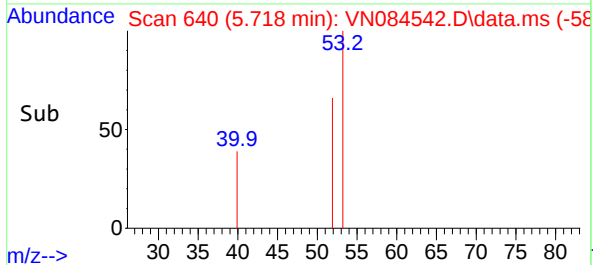
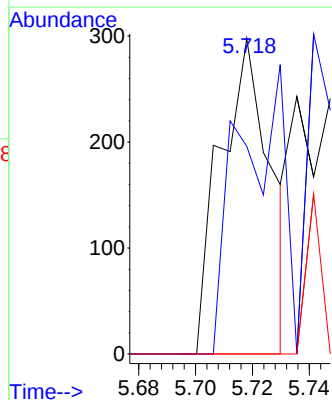


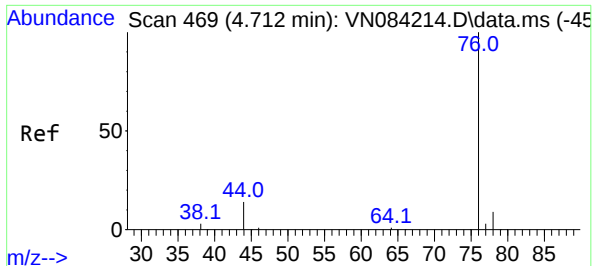
#15
Acrylonitrile
Concen: 0.342 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17



Tgt Ion: 53 Resp: 366

Ion	Ratio	Lower	Upper
53	100		
52	54.6	66.2	99.4#
51	0.0	28.8	43.2#

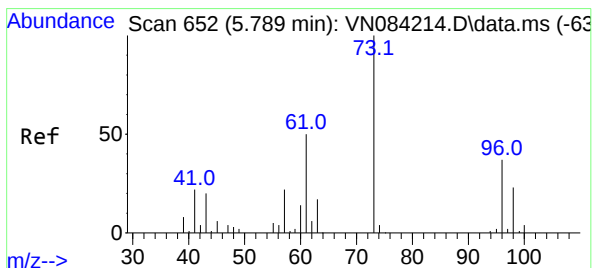
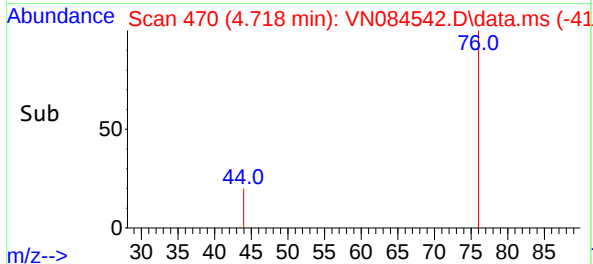
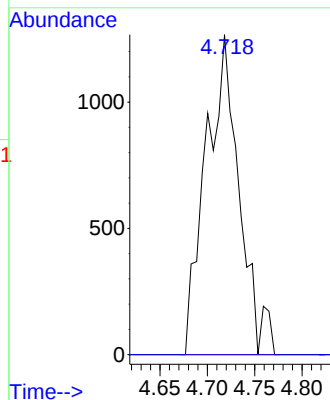
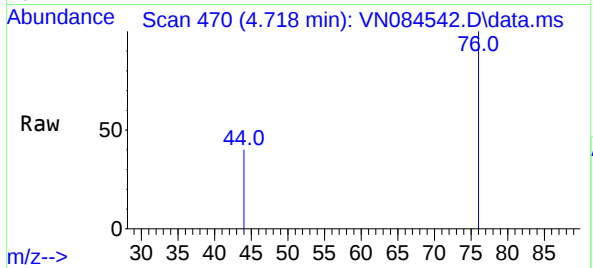




#17
Carbon Disulfide
Concen: 0.505 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

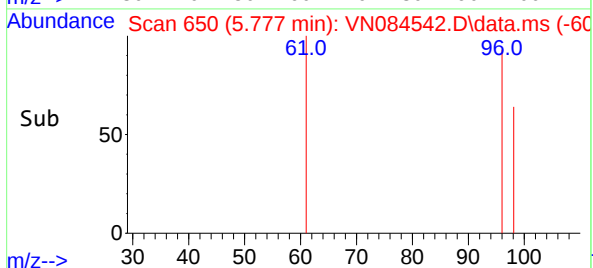
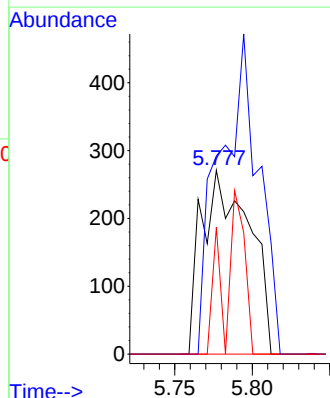
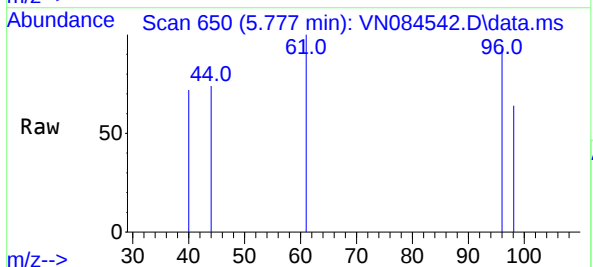
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

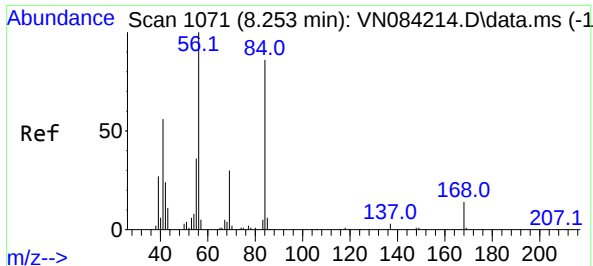
Tgt Ion: 76 Resp: 3118
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#21
trans-1,2-Dichloroethene
Concen: 0.283 ug/l
RT: 5.777 min Scan# 650
Delta R.T. -0.012 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 96 Resp: 578
Ion Ratio Lower Upper
96 100
61 107.7 108.4 162.6#
98 69.0 49.8 74.8

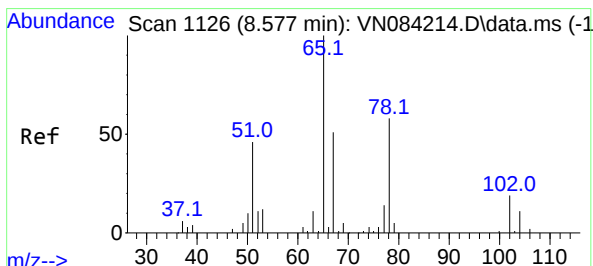
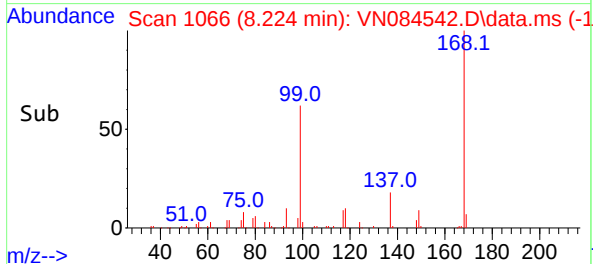
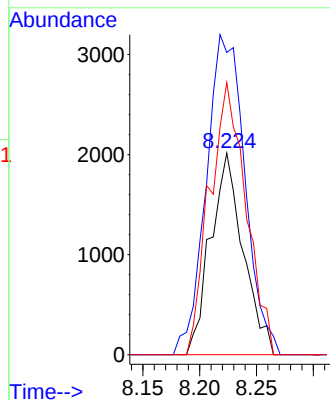
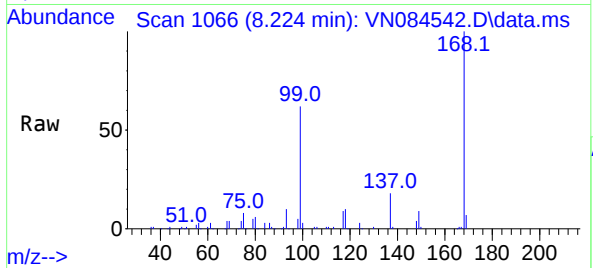




#31
Cyclohexane
Concen: 1.058 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

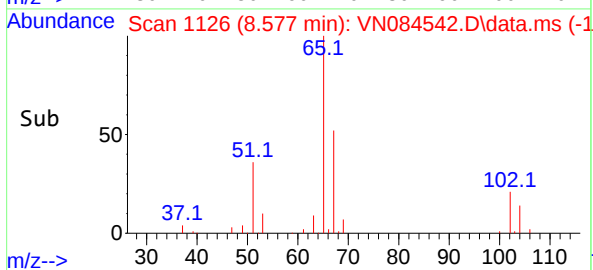
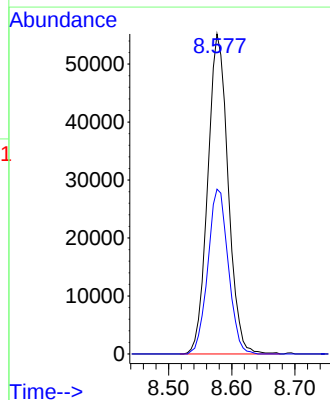
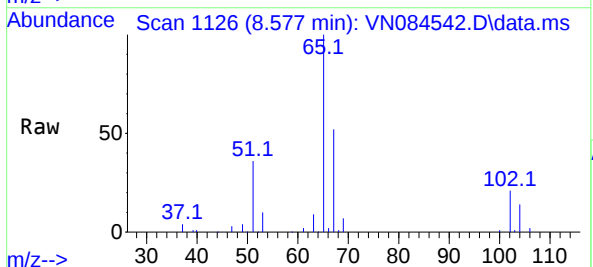
Instrument :
MSVOA_N
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VIBLK

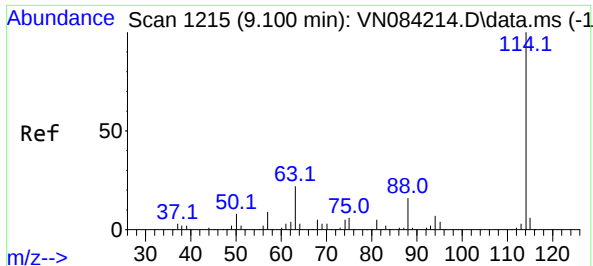
Tgt Ion: 56 Resp: 4024
Ion Ratio Lower Upper
56 100
69 149.9 23.8 35.6#
84 134.9 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 48.168 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 65 Resp: 123637
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.0

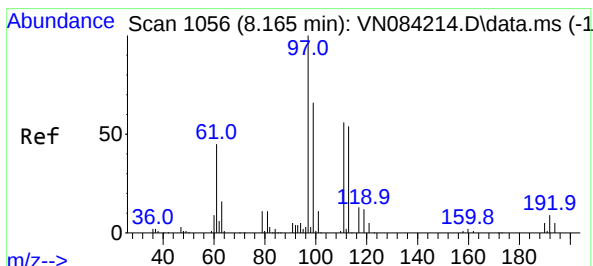
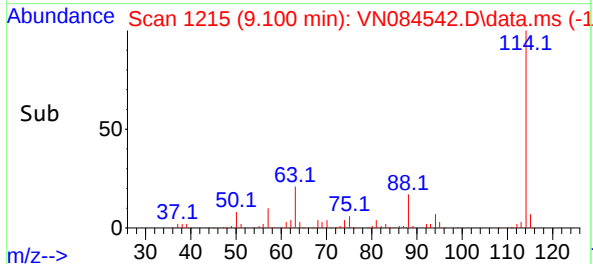
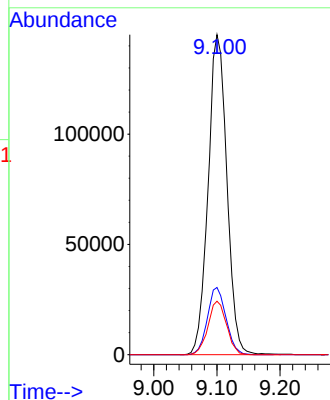
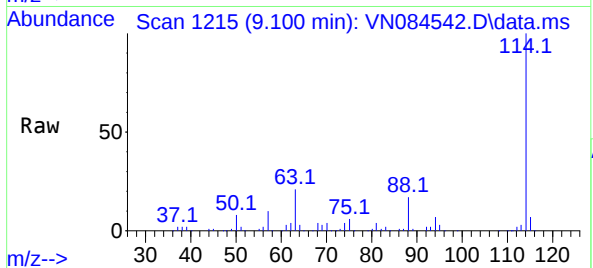




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

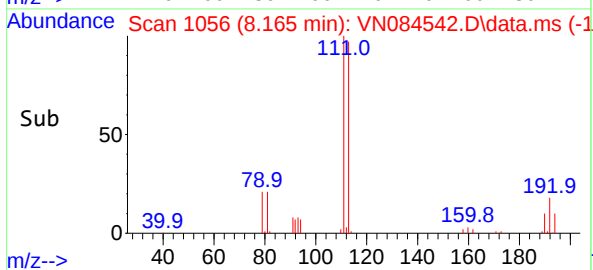
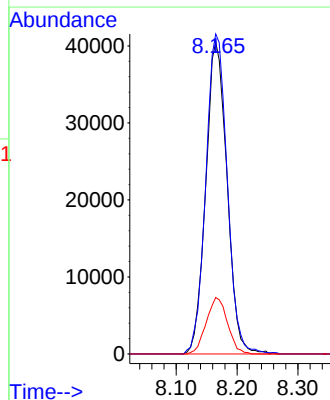
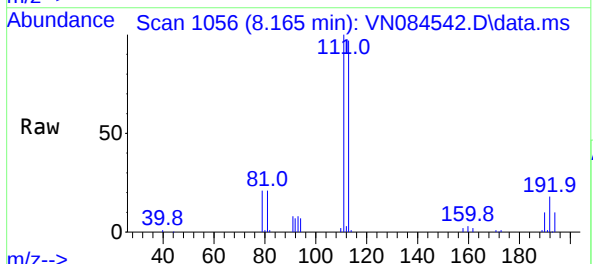
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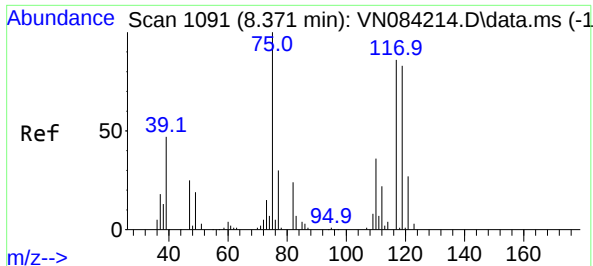
Tgt Ion:114 Resp: 299505
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.8
88 16.7 0.0 31.6



#35
Dibromofluoromethane
Concen: 49.746 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:113 Resp: 98225
Ion Ratio Lower Upper
113 100
111 103.5 83.3 124.9
192 18.0 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.170 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN084542.D

Acq: 28 Oct 2024 16:17

Instrument :

MSVOA_N

ClientSampleId :

VIBLK

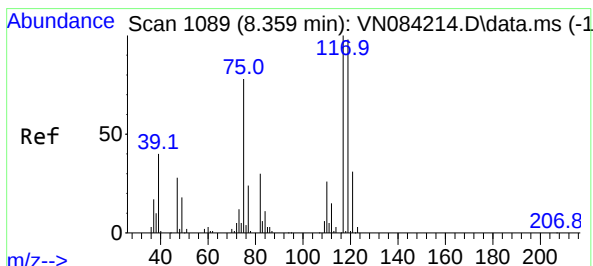
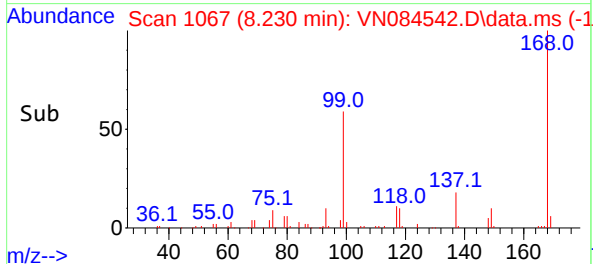
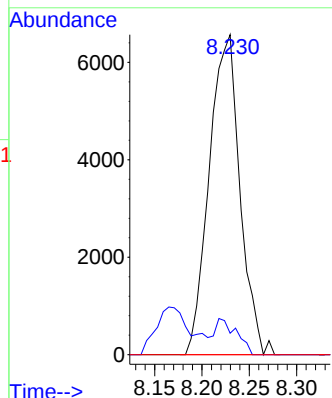
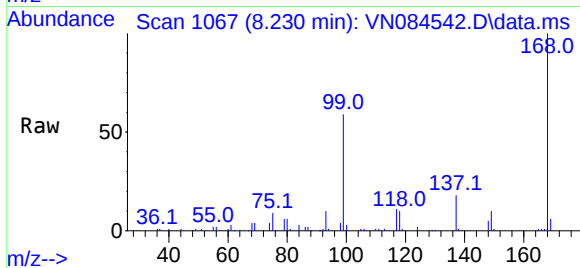
Tgt Ion: 75 Resp: 14829

Ion Ratio Lower Upper

75 100

110 8.1 16.9 50.7#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.766 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN084542.D

Acq: 28 Oct 2024 16:17

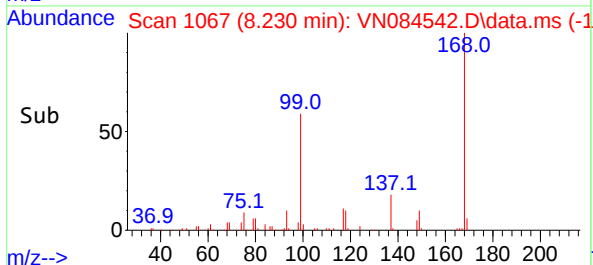
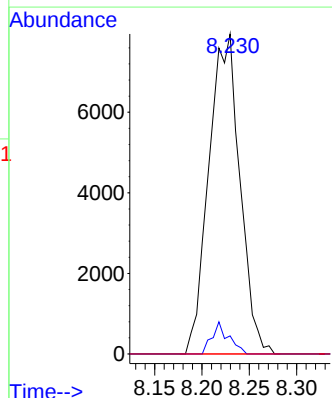
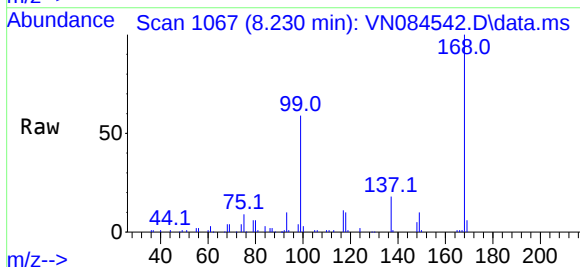
Tgt Ion: 117 Resp: 18141

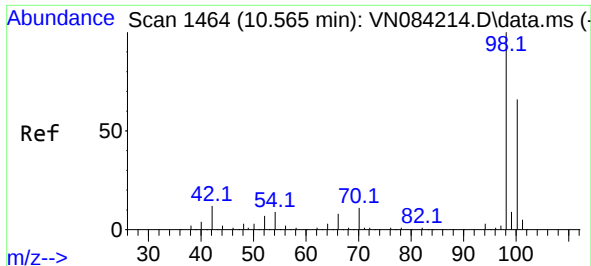
Ion Ratio Lower Upper

117 100

119 5.7 78.7 118.1#

121 0.0 24.4 36.6#

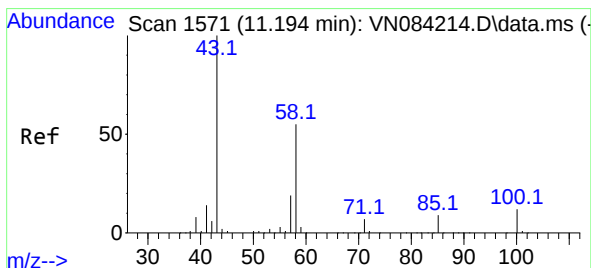
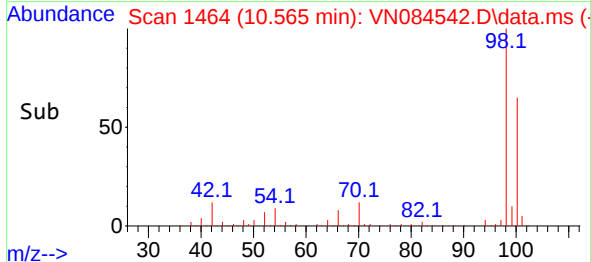
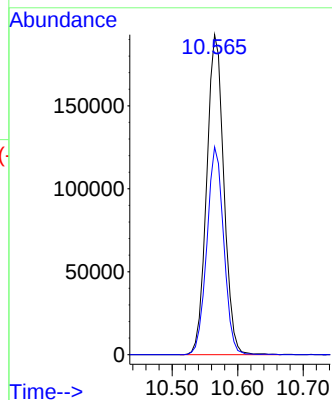
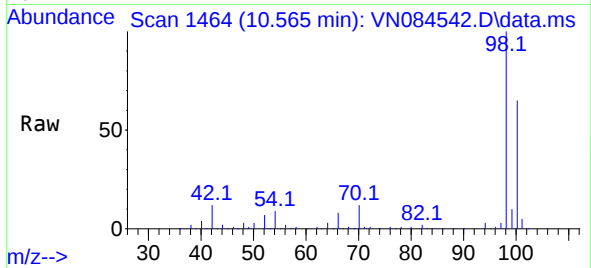




#50
Toluene-d8
Concen: 48.310 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

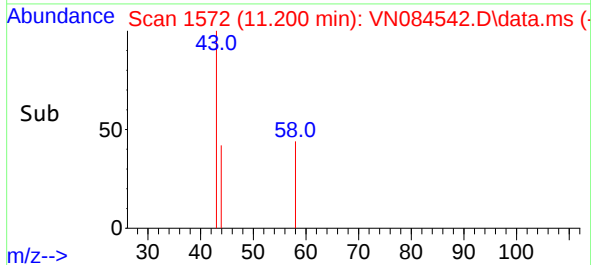
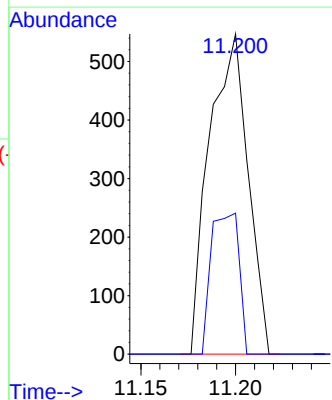
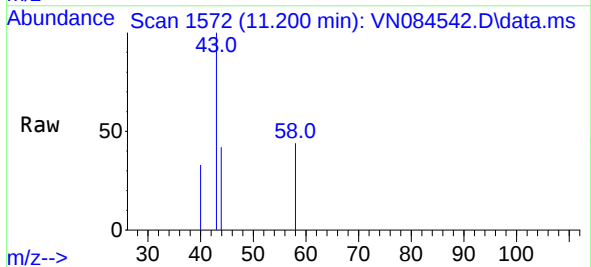
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

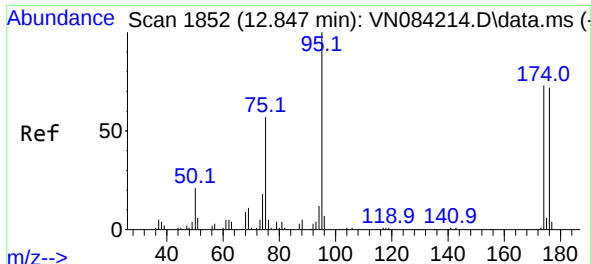
Tgt Ion: 98 Resp: 350946
Ion Ratio Lower Upper
98 100
100 63.7 52.7 79.1



#59
2-Hexanone
Concen: 0.371 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 43 Resp: 776
Ion Ratio Lower Upper
43 100
58 31.8 27.3 81.8

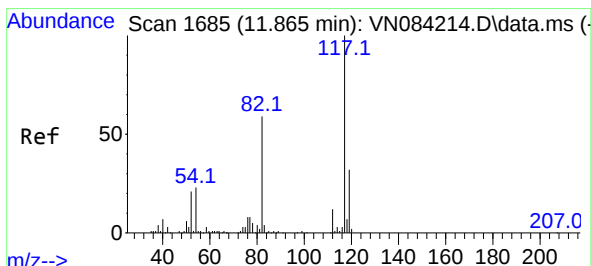
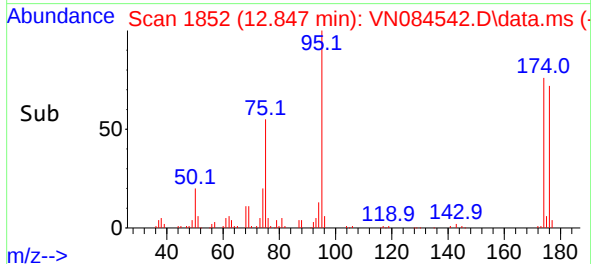
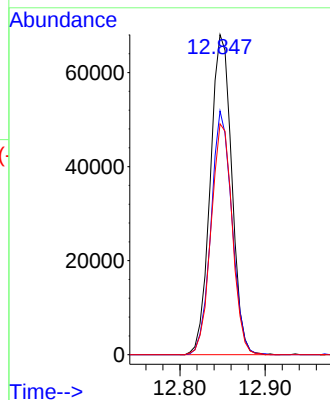
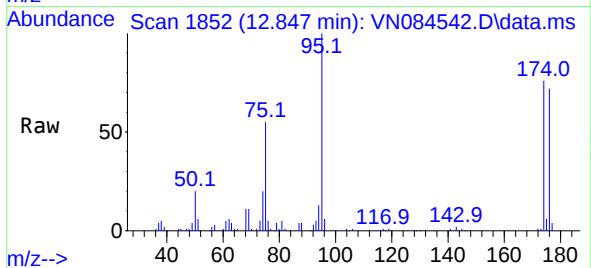




#62
4-Bromofluorobenzene
Concen: 44.969 ug/l
RT: 12.847 min Scan# 119012
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

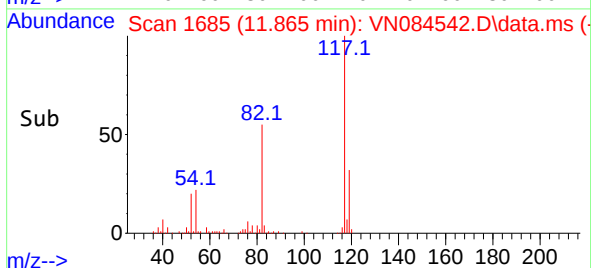
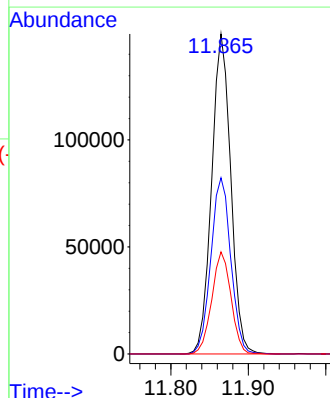
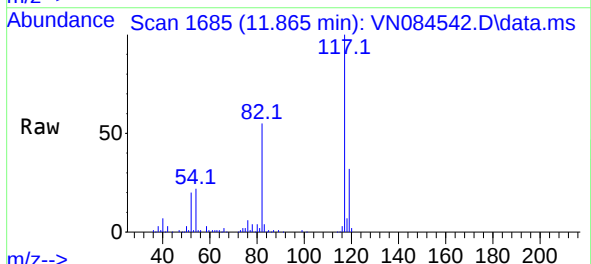
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

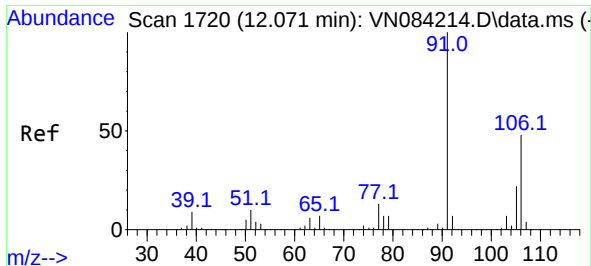
Tgt Ion: 95 Resp: 119012
Ion Ratio Lower Upper
95 100
174 74.4 0.0 145.2
176 71.4 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 117 Resp: 256149
Ion Ratio Lower Upper
117 100
82 55.0 47.2 70.8
119 31.9 25.4 38.0

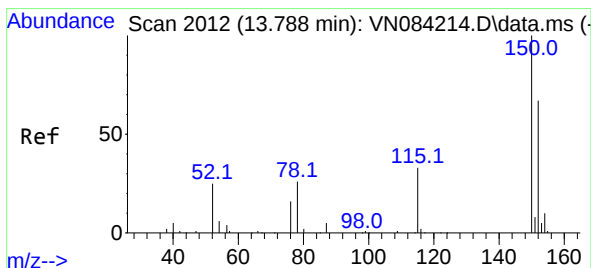
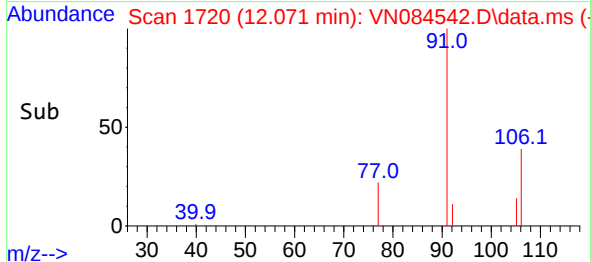
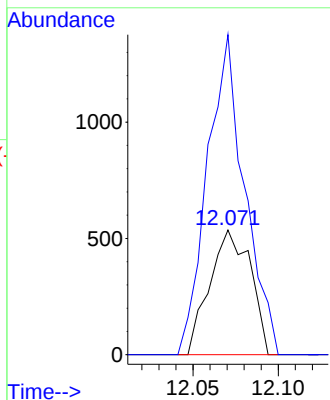
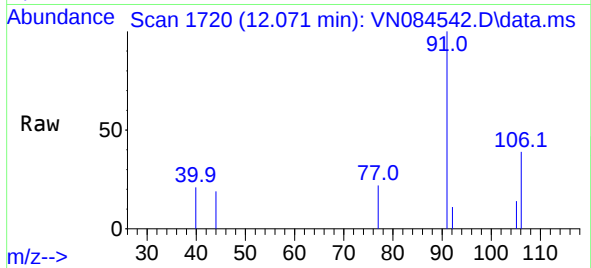




#68
m/p-Xylenes
Concen: 0.241 ug/l
RT: 12.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

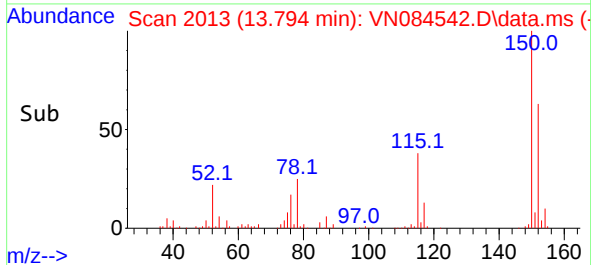
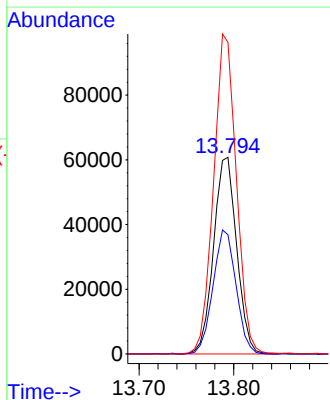
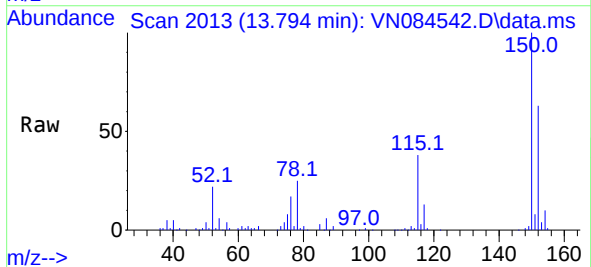
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

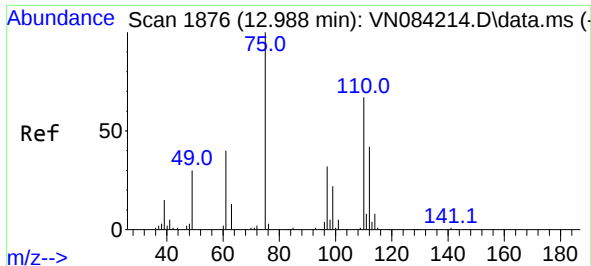
Tgt Ion:106 Resp: 894
Ion Ratio Lower Upper
106 100
91 235.0 167.1 250.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:152 Resp: 103321
Ion Ratio Lower Upper
152 100
115 62.6 31.3 93.9
150 160.5 0.0 349.8

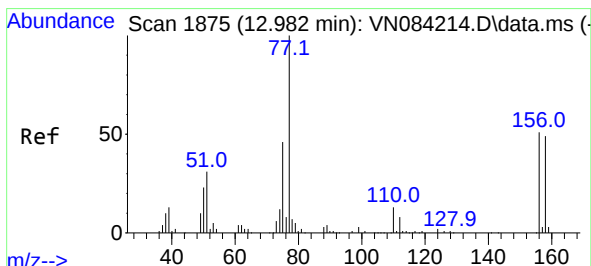
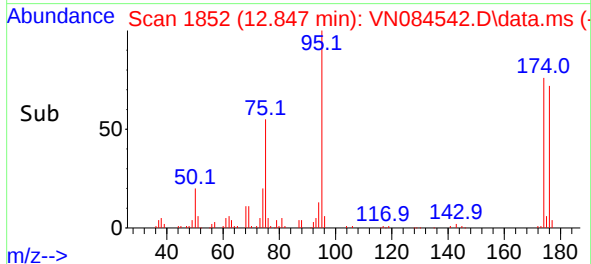
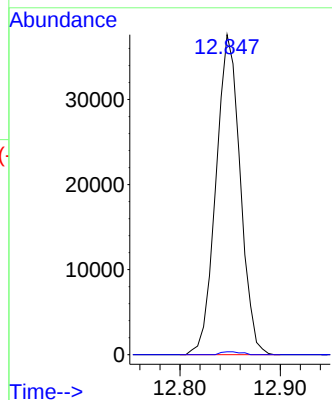
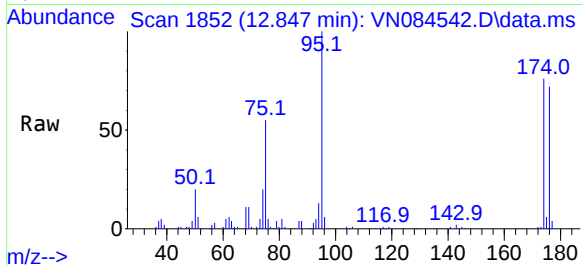




#76
1,2,3-Trichloropropane
Concen: 29.958 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

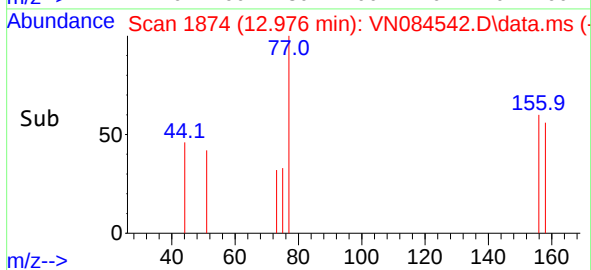
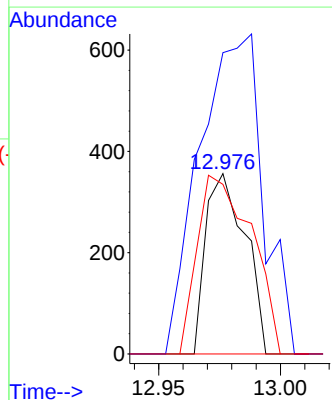
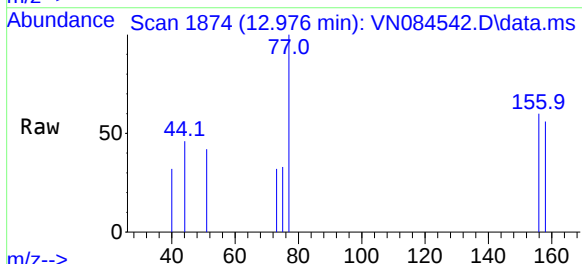
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

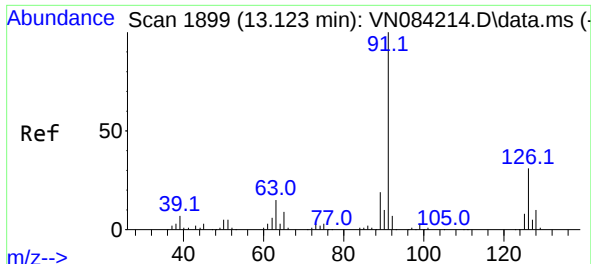
Tgt Ion: 75 Resp: 63191
Ion Ratio Lower Upper
75 100
77 0.8 96.9 290.7#



#77
Bromobenzene
Concen: 0.210 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:156 Resp: 400
Ion Ratio Lower Upper
156 100
77 286.0 115.1 345.3
158 136.8 48.9 146.8





#79

2-Chlorotoluene

Concen: 0.288 ug/l

RT: 13.223 min Scan# 1899

Delta R.T. 0.100 min

Lab File: VN084542.D

Acq: 28 Oct 2024 16:17

Instrument :

MSVOA_N

ClientSampleId :

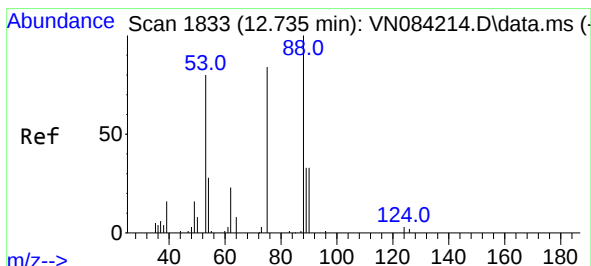
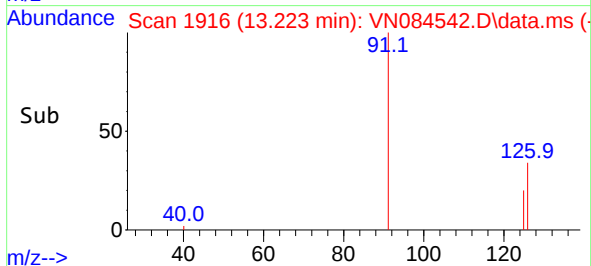
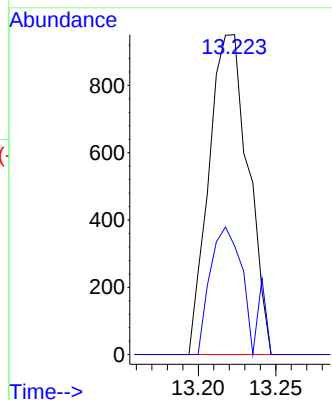
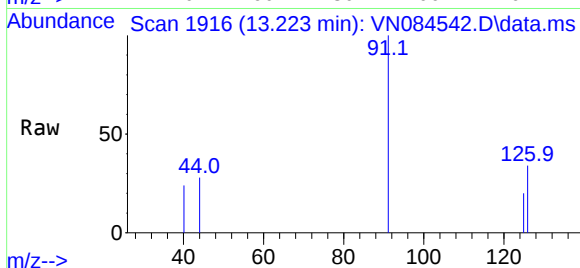
VIBLK

Tgt Ion: 91 Resp: 1678

Ion Ratio Lower Upper

91 100

126 36.1 15.7 47.1



#81

trans-1,4-Dichloro-2-butene

Concen: 71.823 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084542.D

Acq: 28 Oct 2024 16:17

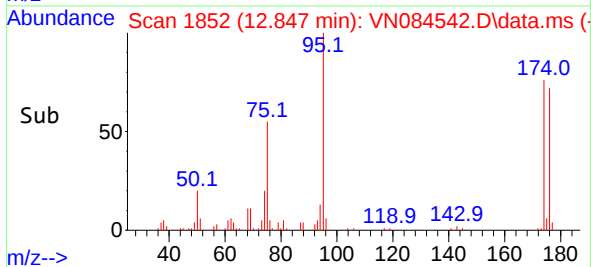
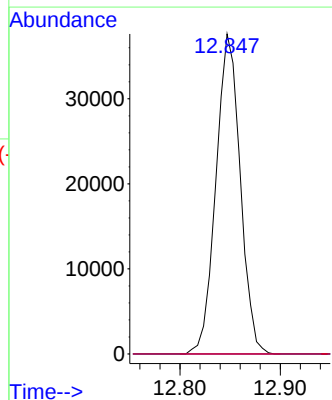
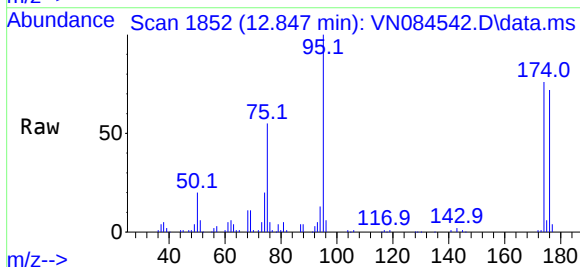
Tgt Ion: 75 Resp: 63191

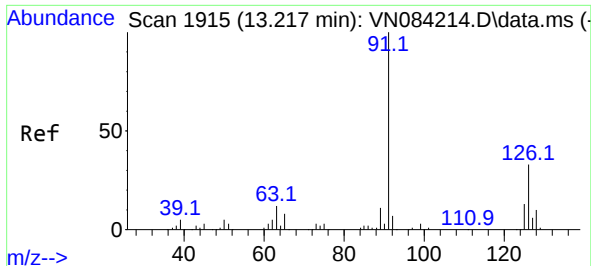
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 35.5 53.3#

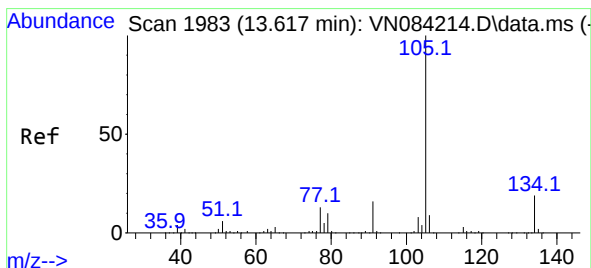
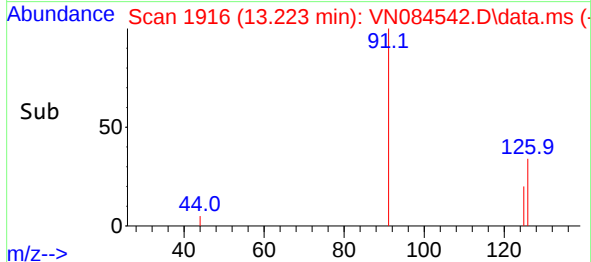
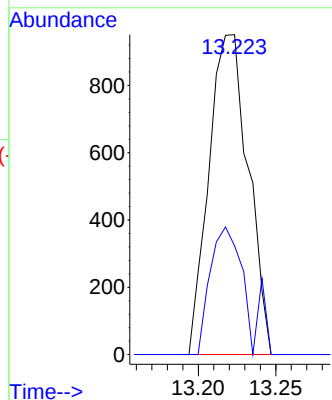
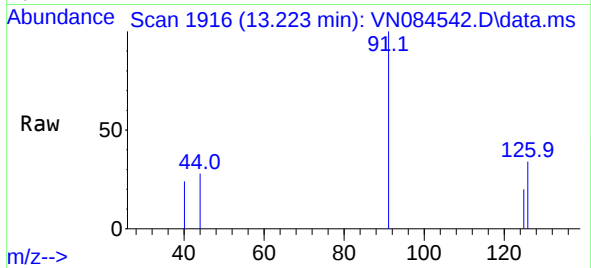




#82
4-Chlorotoluene
Concen: 0.286 ug/l
RT: 13.223 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

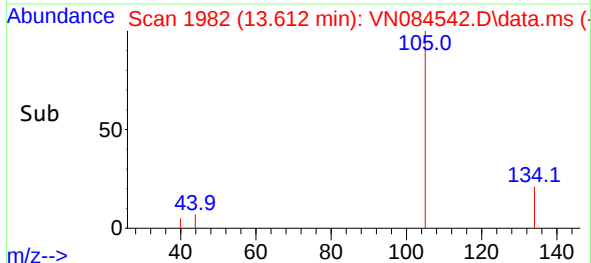
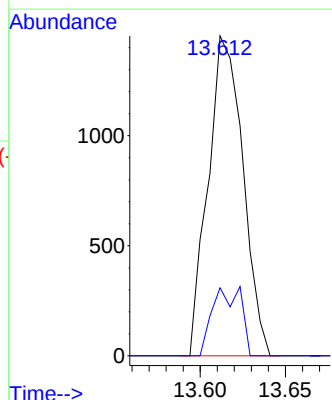
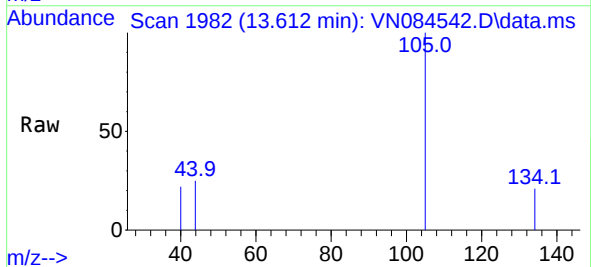
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

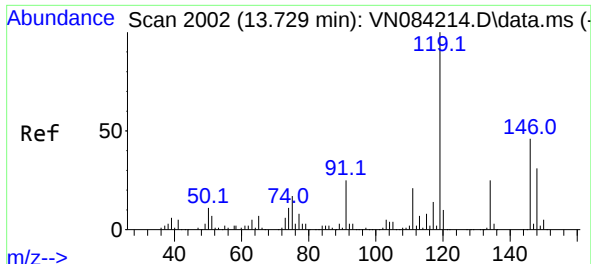
Tgt Ion: 91 Resp: 1678
Ion Ratio Lower Upper
91 100
126 36.1 15.7 47.1



#85
sec-Butylbenzene
Concen: 0.270 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 105 Resp: 2060
Ion Ratio Lower Upper
105 100
134 17.6 9.8 29.4

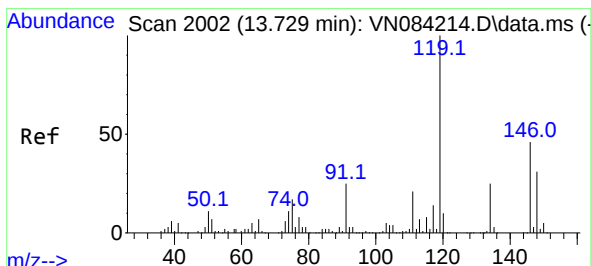
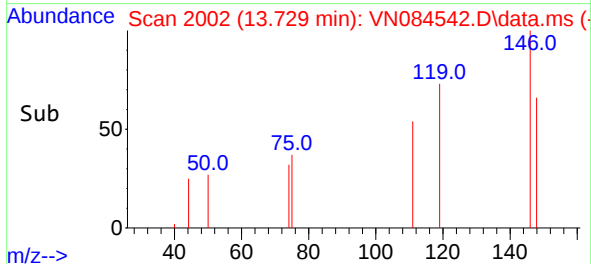
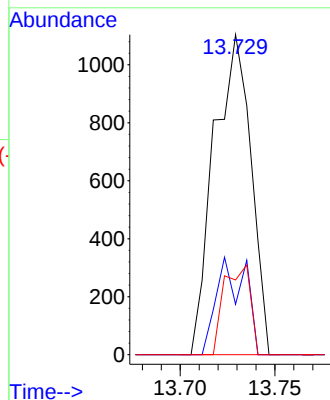
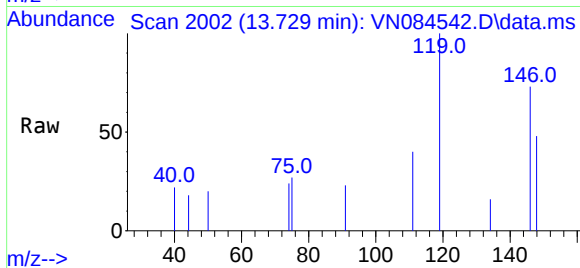




#86
p-Isopropyltoluene
Concen: 0.237 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

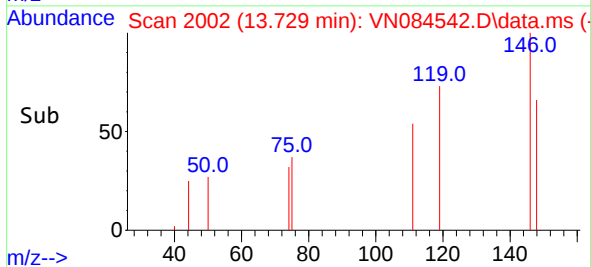
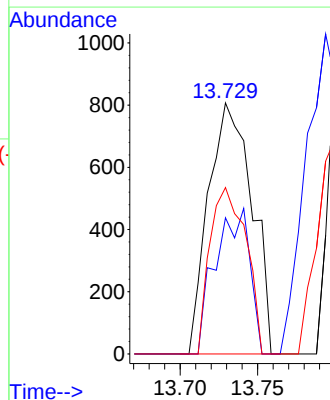
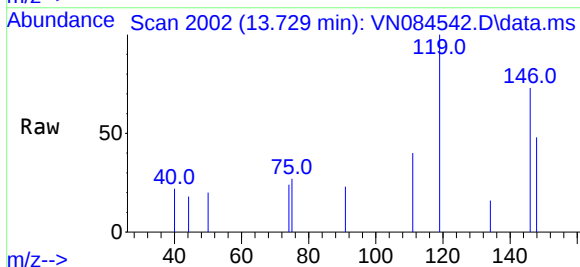
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

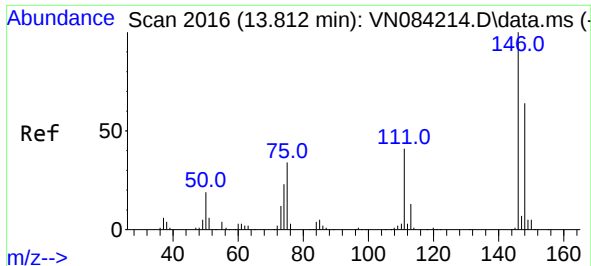
Tgt Ion:	119	Resp:	1495
Ion	Ratio	Lower	Upper
119	100		
134	23.4	12.6	37.8
91	19.9	12.4	37.2



#87
1,3-Dichlorobenzene
Concen: 0.441 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:	146	Resp:	1574
Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.8	65.3
148	55.0	31.9	95.7



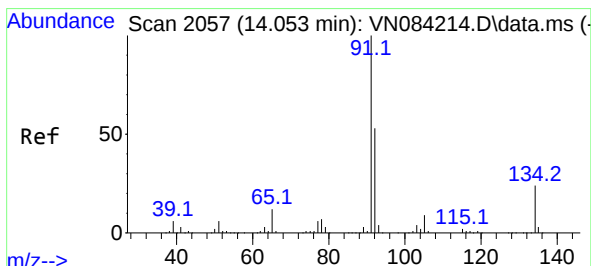
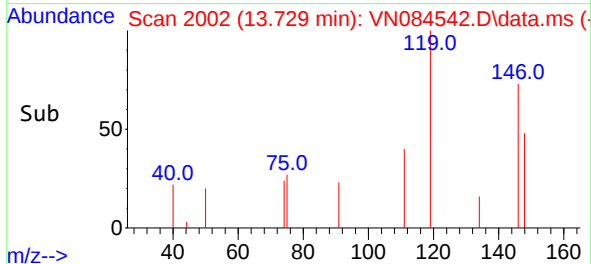
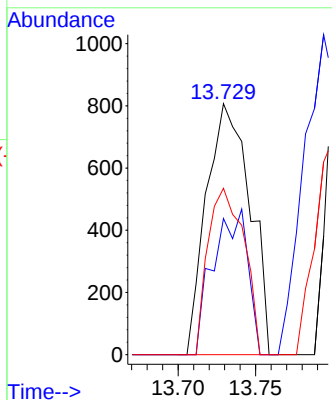
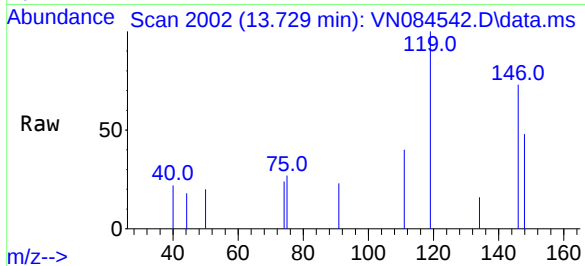


#88
1,4-Dichlorobenzene
Concen: 0.437 ug/l
RT: 13.729 min Scan# 2016
Delta R.T. -0.082 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Instrument :
MSVOA_N
ClientSampleId :
VIBLK

Tgt Ion:146 Resp: 1574

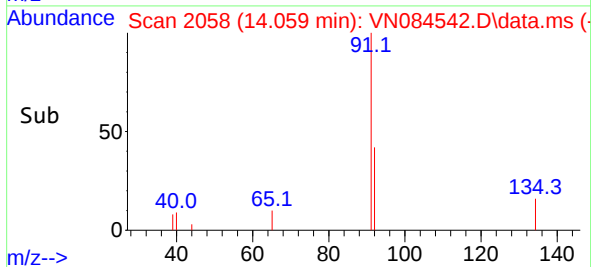
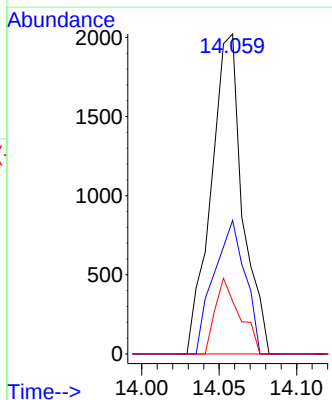
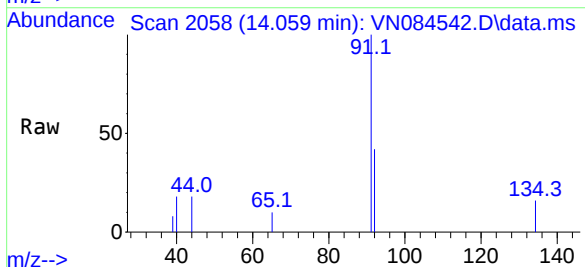
Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.2	63.6
148	55.0	31.9	95.9

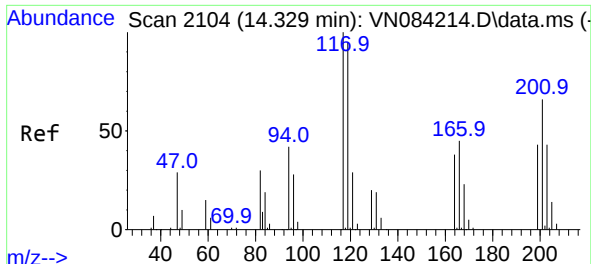


#89
n-Butylbenzene
Concen: 0.500 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion: 91 Resp: 2860

Ion	Ratio	Lower	Upper
91	100		
92	41.3	26.6	79.7
134	18.3	12.3	36.9

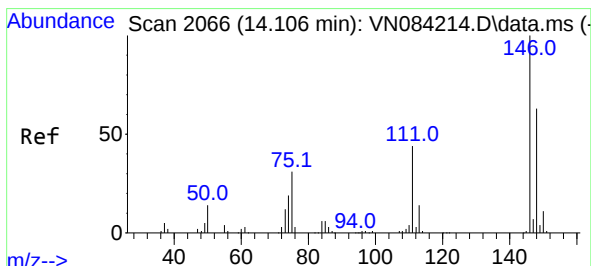
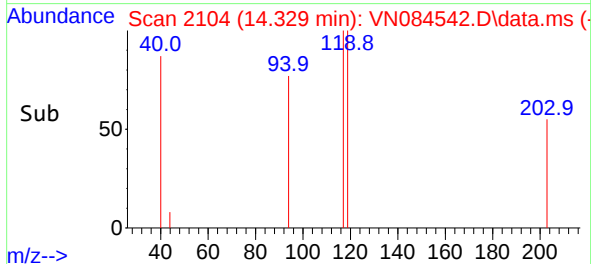
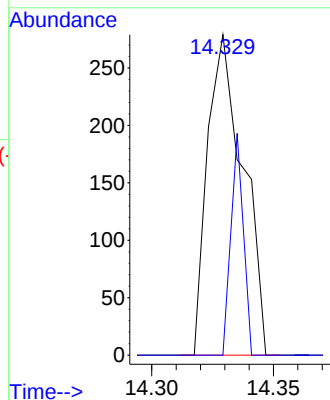
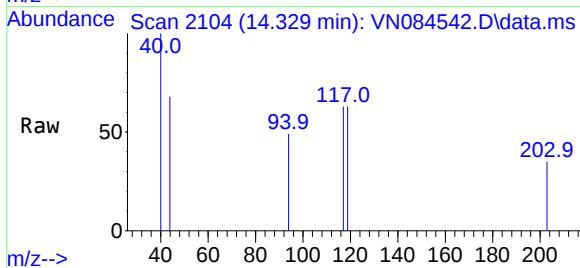




#90
Hexachloroethane
Concen: 0.221 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

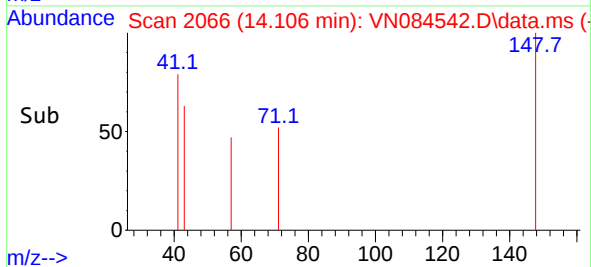
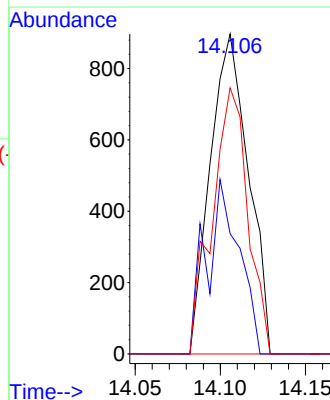
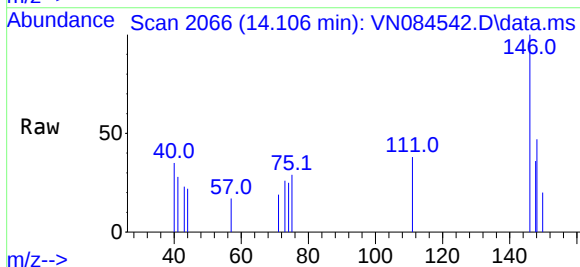
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

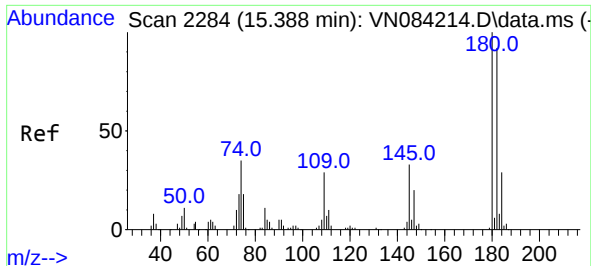
Tgt Ion:117 Resp: 283
Ion Ratio Lower Upper
117 100
201 24.0 34.4 103.2#



#91
1,2-Dichlorobenzene
Concen: 0.400 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:146 Resp: 1399
Ion Ratio Lower Upper
146 100
111 46.5 22.0 66.0
148 77.6 32.1 96.3

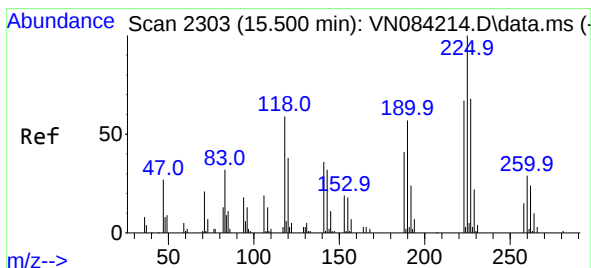
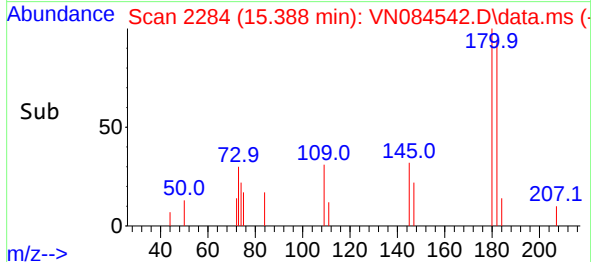
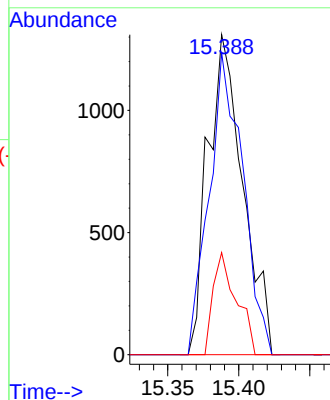
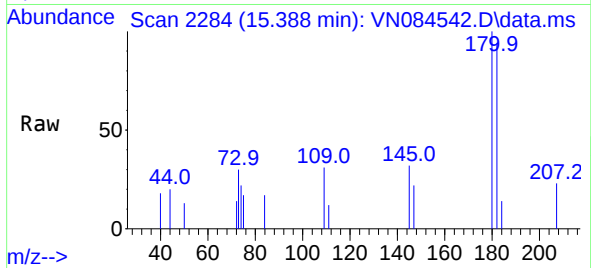




#93
1,2,4-Trichlorobenzene
Concen: 1.306 ug/l
RT: 15.388 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

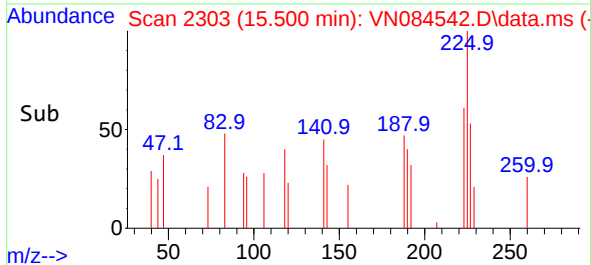
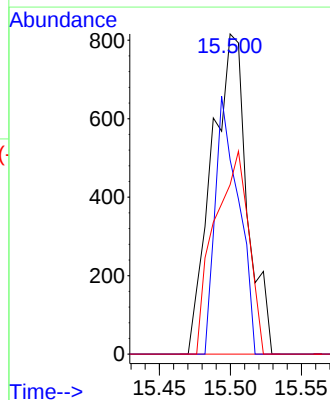
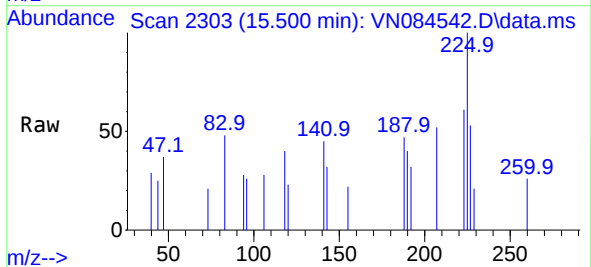
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

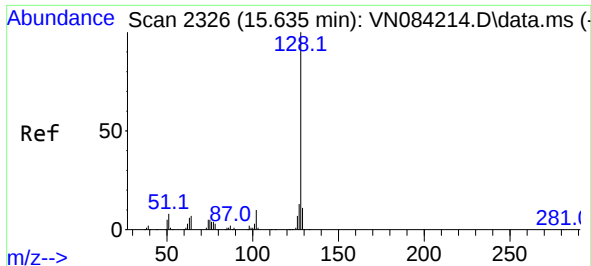
Tgt Ion:180 Resp: 2251
Ion Ratio Lower Upper
180 100
182 90.4 47.0 141.0
145 21.3 16.4 49.4



#94
Hexachlorobutadiene
Concen: 1.651 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:225 Resp: 1419
Ion Ratio Lower Upper
225 100
223 53.0 32.4 97.2
227 60.9 32.4 97.0

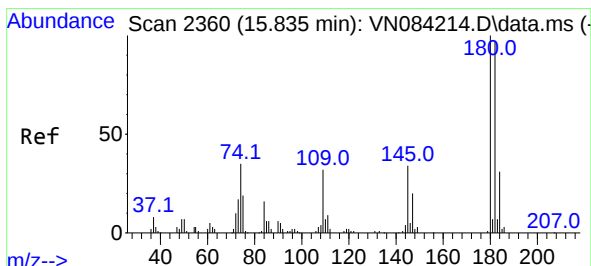
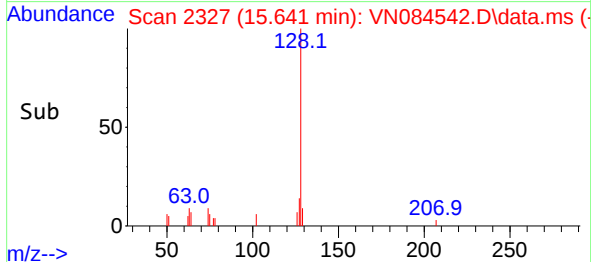
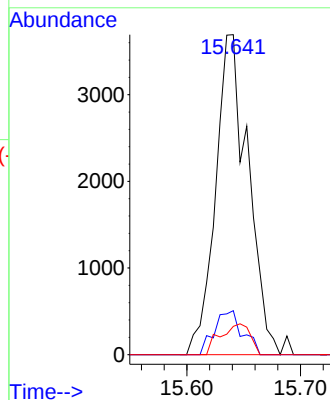
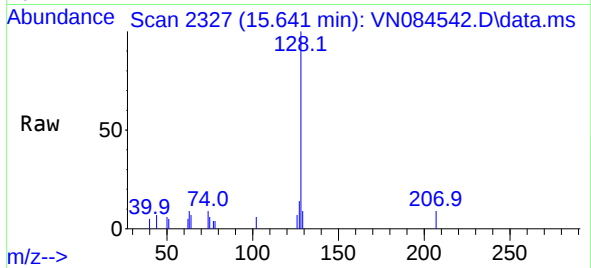




#95
Naphthalene
Concen: 1.285 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Instrument :
MSVOA_N
ClientSampleId :
VIBLK

Tgt Ion:	128	Resp:	7340
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.5	15.7
129	8.8	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.459 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN084542.D
Acq: 28 Oct 2024 16:17

Tgt Ion:	180	Resp:	2516
Ion	Ratio	Lower	Upper
180	100		
182	91.1	48.2	144.6
145	30.3	17.3	51.9

