

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121923\
 Data File : VN080514.D
 Acq On : 19 Dec 2023 12:48
 Operator : JC\MD
 Sample : 05886-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 04:00:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

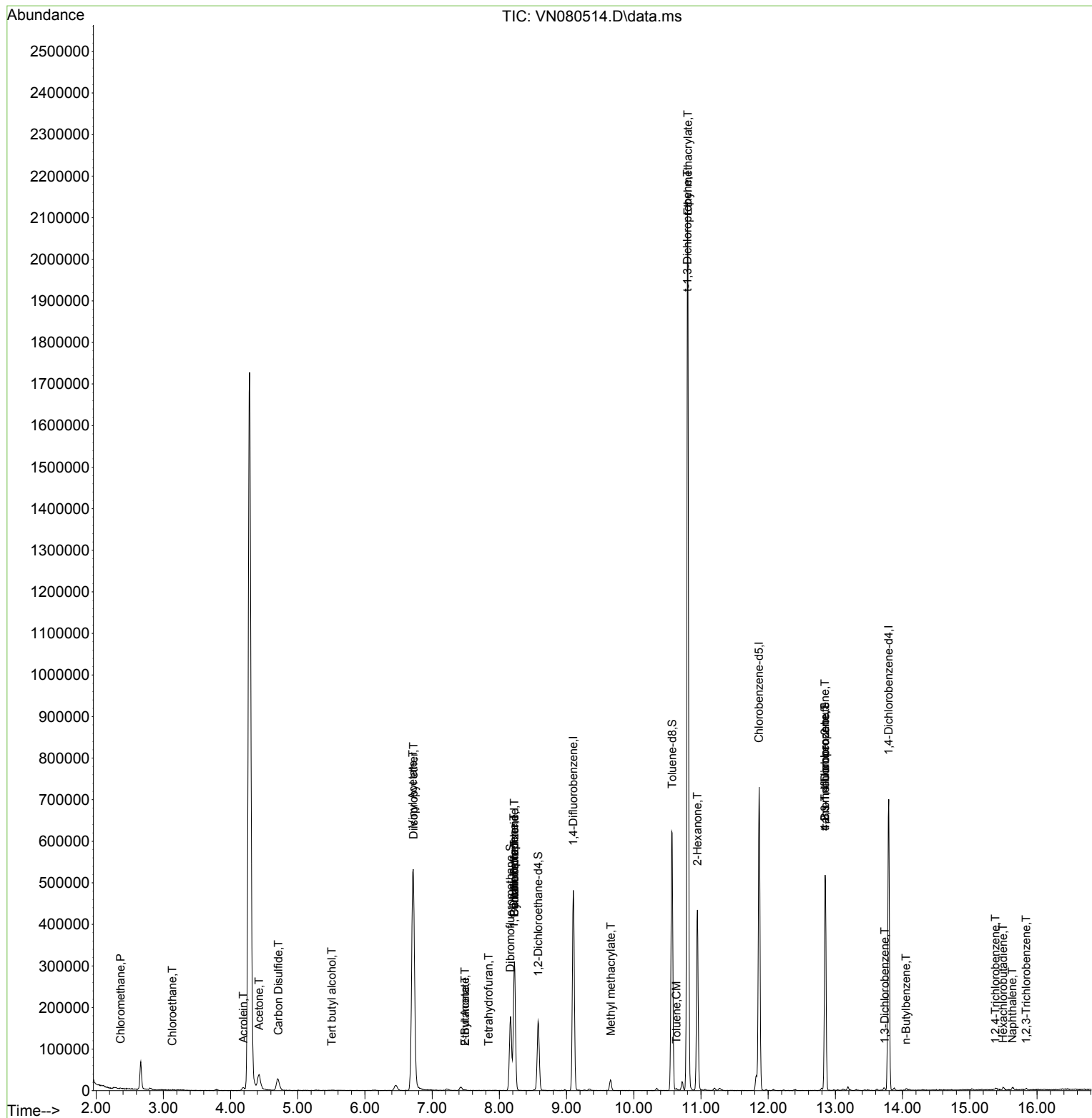
Internal Standards						
1) Pentafluorobenzene	8.224	168	217165	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	414937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	187959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	143786	51.839	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.680%			
35) Dibromofluoromethane	8.165	113	123685	49.599	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	10.571	98	452113	48.613	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.220%			
62) 4-Bromofluorobenzene	12.847	95	185170	52.434	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.860%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2772	0.555	ug/l	93
6) Chloroethane	3.136	64	346	0.227	ug/l #	43
11) Tert butyl alcohol	5.506	59	202	0.618	ug/l #	72
13) Acrolein	4.189	56	9343	26.116	ug/l	88
16) Acetone	4.424	43	59516	121.015	ug/l	88
17) Carbon Disulfide	4.712	76	1914	0.289	ug/l #	75
22) Diisopropyl ether	6.724	45	40480	6.493	ug/l #	1
23) Vinyl Acetate	6.712	43	103523	28.913	ug/l #	62
25) 2-Butanone	7.488	43	2689	2.838	ug/l	91
29) Tetrahydrofuran	7.841	42	217	0.320	ug/l #	37
31) Cyclohexane	8.224	56	4672	1.239	ug/l #	29
36) 1,1-Dichloropropene	8.218	75	17859	4.380	ug/l #	51
37) Ethyl Acetate	7.488	43	2689	1.053	ug/l #	63
38) Carbon Tetrachloride	8.224	117	24134	4.954	ug/l #	15
48) Methyl methacrylate	9.659	41	7067	2.580	ug/l #	30
52) Toluene	10.635	92	1804	0.243	ug/l	92
53) t-1,3-Dichloropropene	10.800	75	4122	0.895	ug/l #	43
56) Ethyl methacrylate	10.806	69	2822	0.952	ug/l #	1
59) 2-Hexanone	10.947	43	31353	16.797	ug/l	92
76) 1,2,3-Trichloropropane	12.847	75	102035	27.211	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102035	71.446	ug/l #	15
87) 1,3-Dichlorobenzene	13.735	146	1313	0.201	ug/l	83
89) n-Butylbenzene	14.053	91	2821	0.275	ug/l	99
93) 1,2,4-Trichlorobenzene	15.382	180	1548	0.449	ug/l	88
94) Hexachlorobutadiene	15.494	225	1213	0.618	ug/l	71
95) Naphthalene	15.635	128	6144	0.586	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.841	180	1489	0.447	ug/l	96

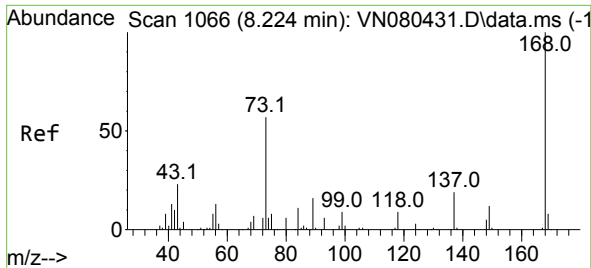
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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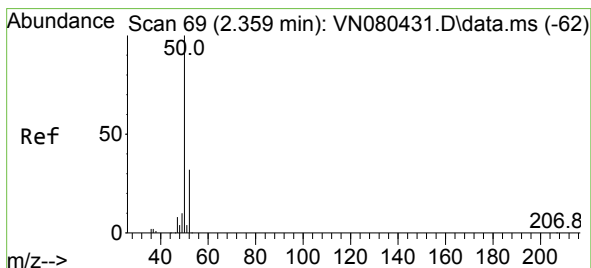
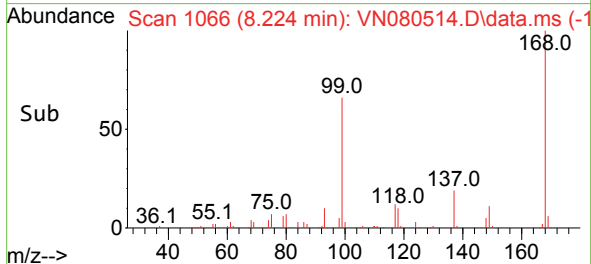
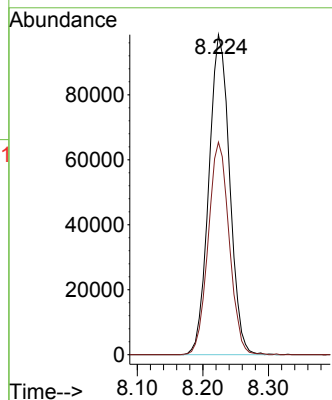
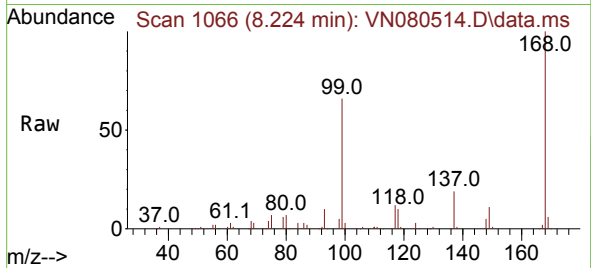




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

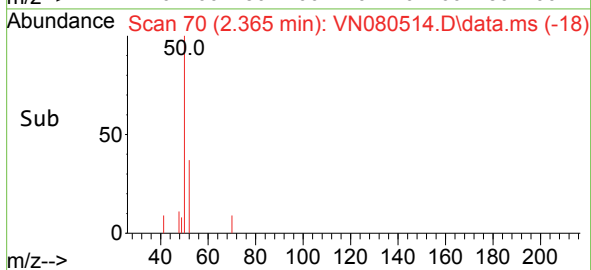
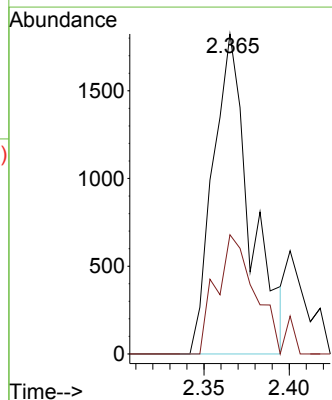
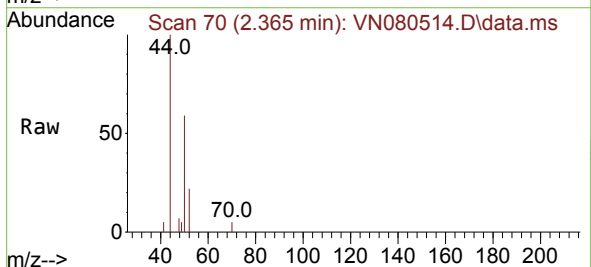
Instrument :
MSVOA_N
ClientSampleId :

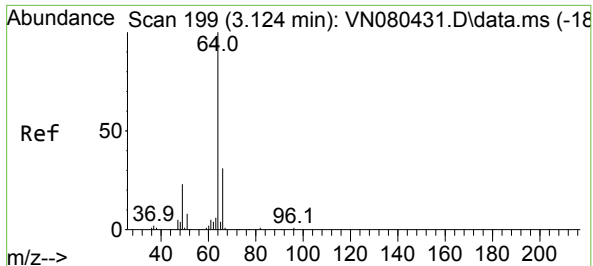
Tgt Ion:168 Resp: 217165
Ion Ratio Lower Upper
168 100
99 66.4 53.0 79.6



#3
Chloromethane
Concen: 0.555 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 50 Resp: 2772
Ion Ratio Lower Upper
50 100
52 37.2 26.5 39.7

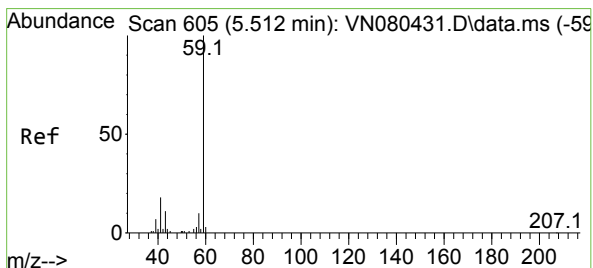
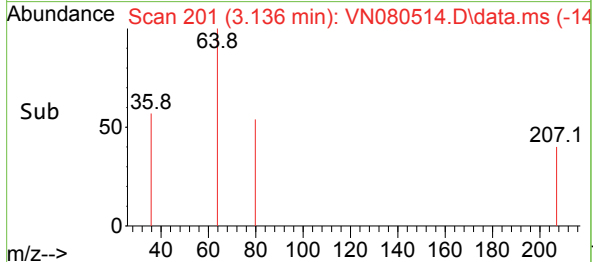
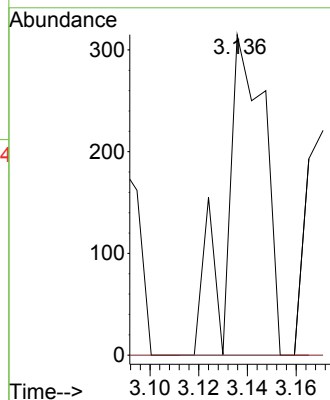
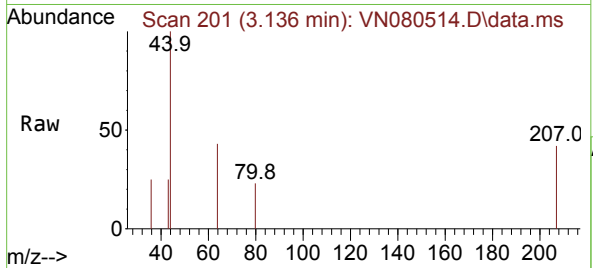




#6
Chloroethane
Concen: 0.227 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

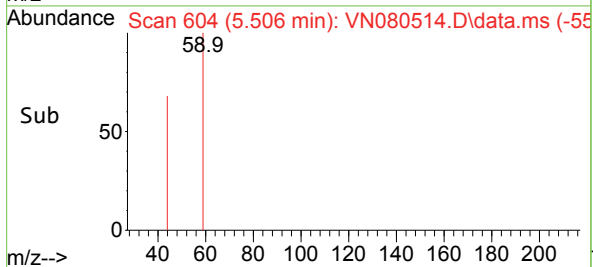
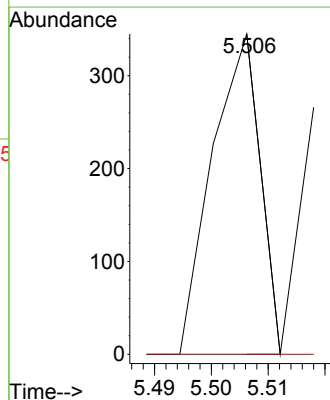
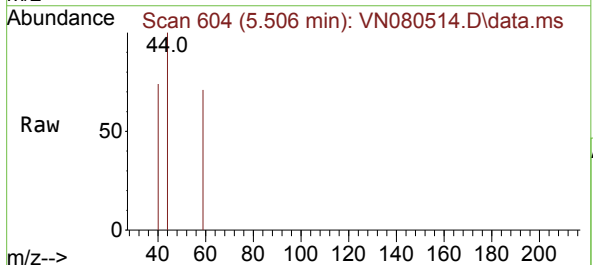
Instrument :
MSVOA_N
ClientSampleId :

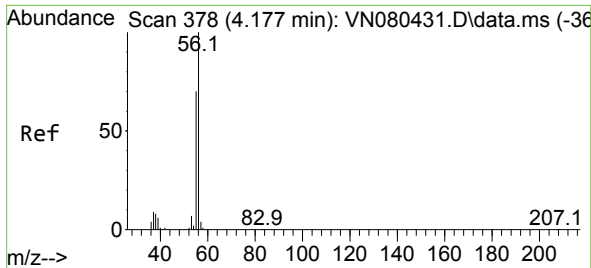
Tgt Ion: 64 Resp: 346
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.618 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 59 Resp: 202
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

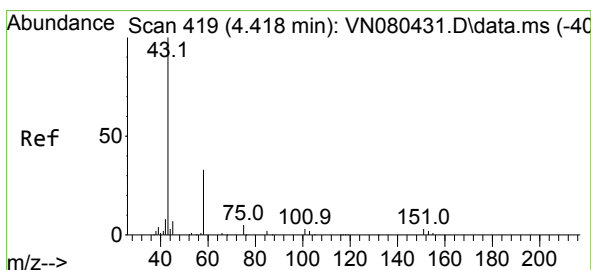
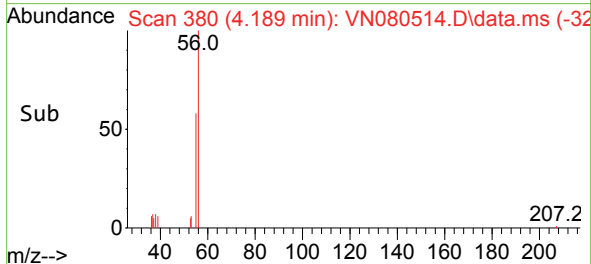
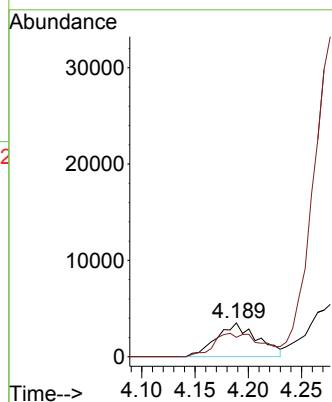
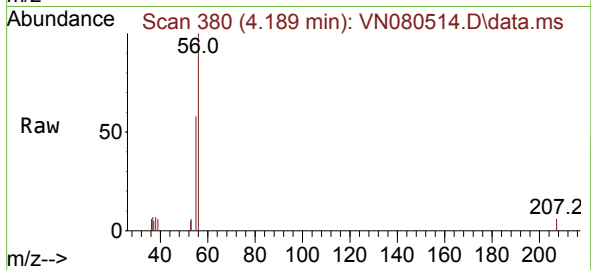




#13
Acrolein
Concen: 26.116 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

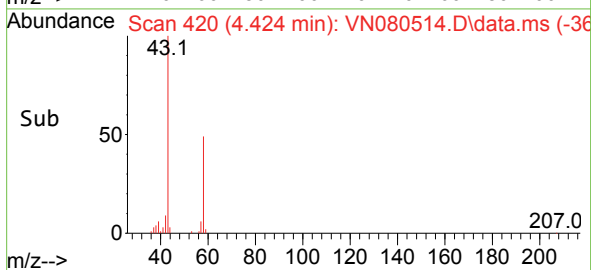
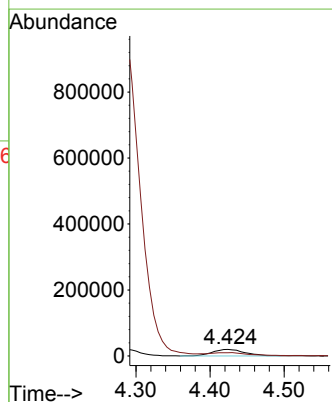
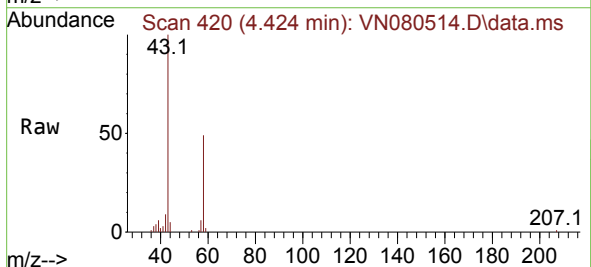
Instrument :
MSVOA_N
ClientSampleId :

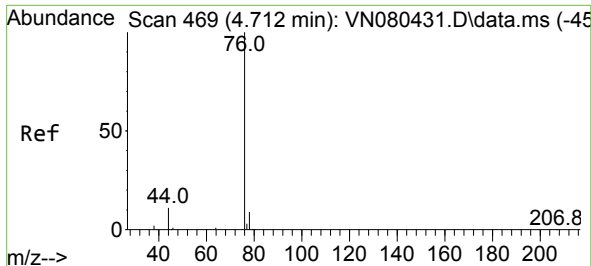
Tgt Ion: 56 Resp: 9343
Ion Ratio Lower Upper
56 100
55 77.8 54.5 81.7



#16
Acetone
Concen: 121.015 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 43 Resp: 59516
Ion Ratio Lower Upper
43 100
58 42.0 28.0 42.0

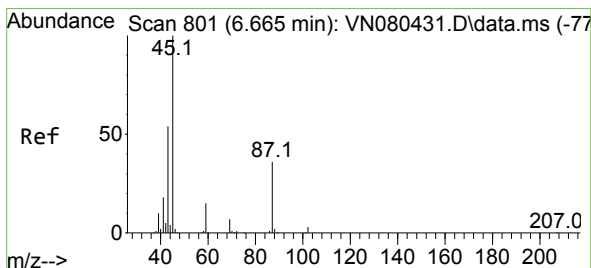
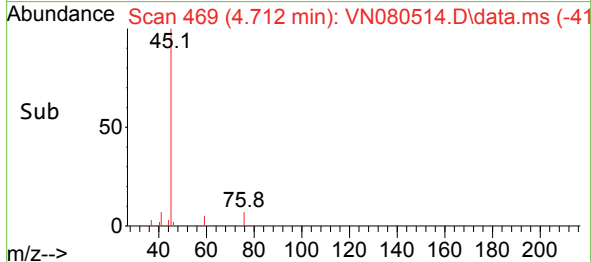
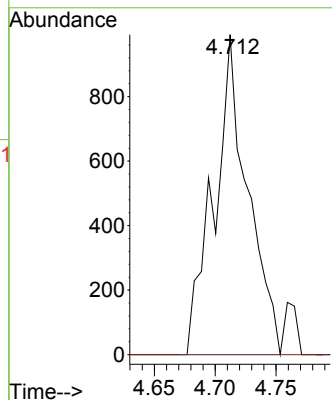
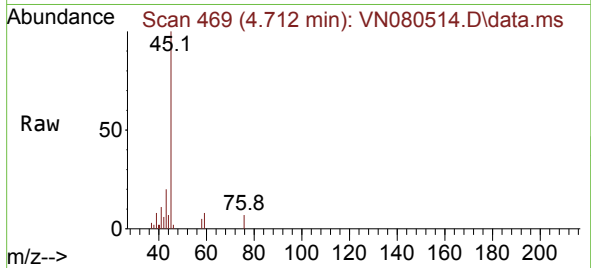




#17
Carbon Disulfide
Concen: 0.289 ug/l
RT: 4.712 min Scan# 40
Delta R.T. 0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

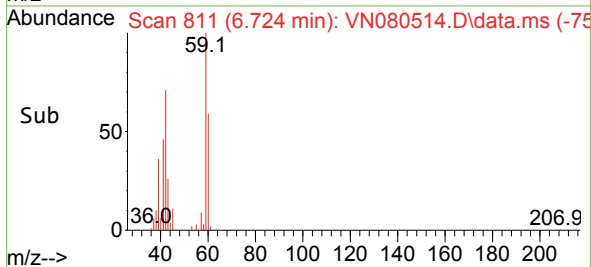
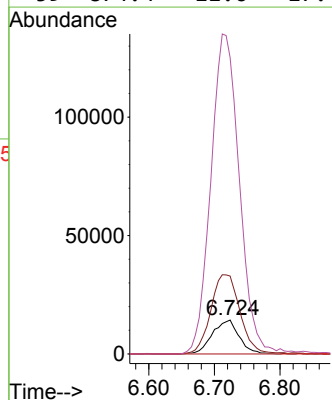
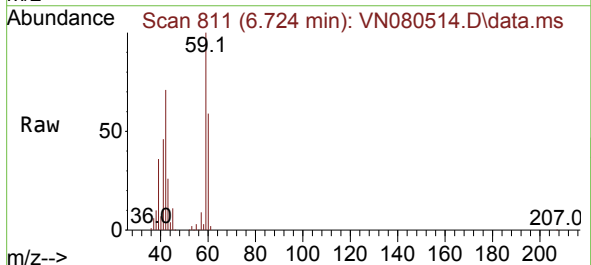
Instrument :
MSVOA_N
ClientSampleId :

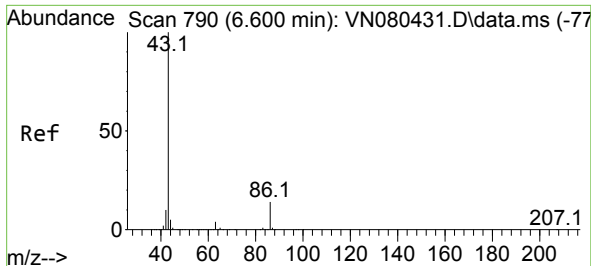
Tgt Ion: 76 Resp: 1914
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#22
Diisopropyl ether
Concen: 6.493 ug/l
RT: 6.724 min Scan# 811
Delta R.T. 0.059 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

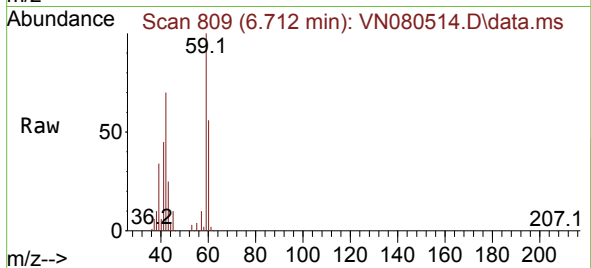
Tgt Ion: 45 Resp: 40480
Ion Ratio Lower Upper
45 100
43 229.9 45.5 68.3#
87 0.0 31.8 47.8#
59 874.4 11.6 17.4#



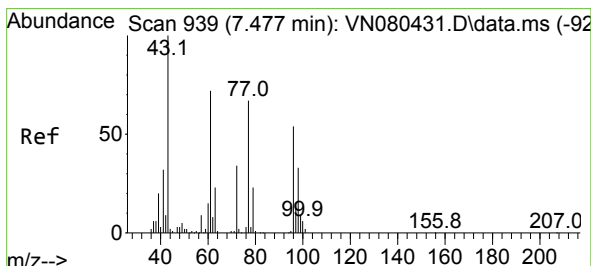
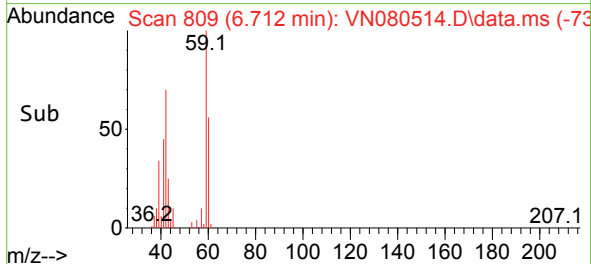
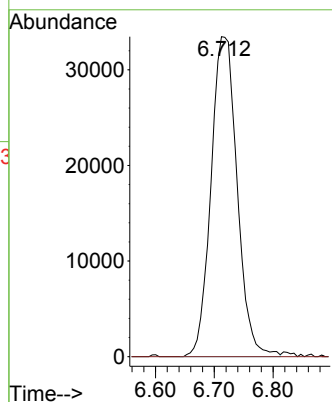


#23
 Vinyl Acetate
 Concen: 28.913 ug/l
 RT: 6.712 min Scan# 809
 Delta R.T. 0.112 min
 Lab File: VN080514.D
 Acq: 19 Dec 2023 12:48

Instrument :
 MSVOA_N
 ClientSampleId :

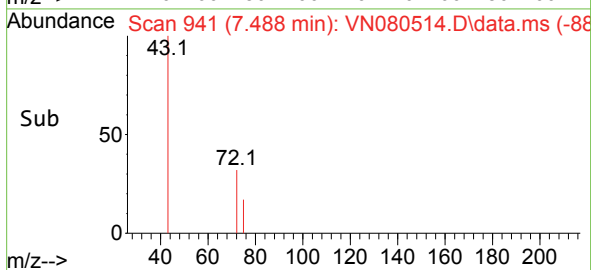
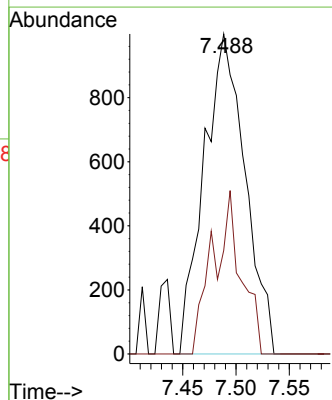
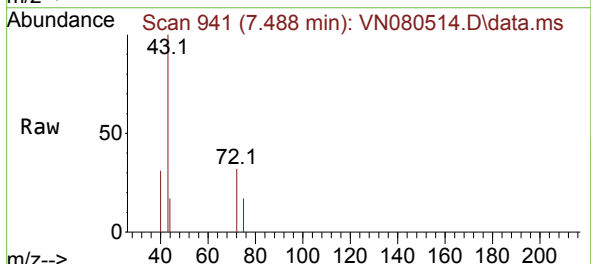


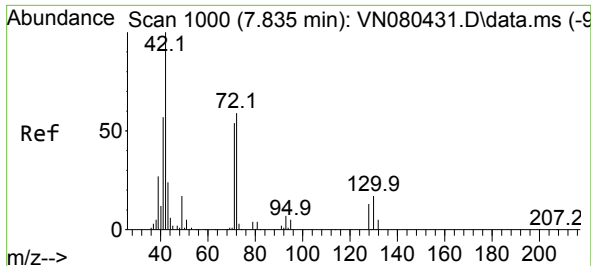
Tgt Ion: 43 Resp: 103523
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 2.838 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.012 min
 Lab File: VN080514.D
 Acq: 19 Dec 2023 12:48

Tgt Ion: 43 Resp: 2689
 Ion Ratio Lower Upper
 43 100
 72 32.3 30.2 45.2





#29

Tetrahydrofuran

Concen: 0.320 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

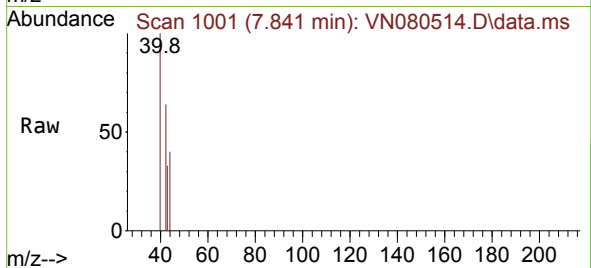
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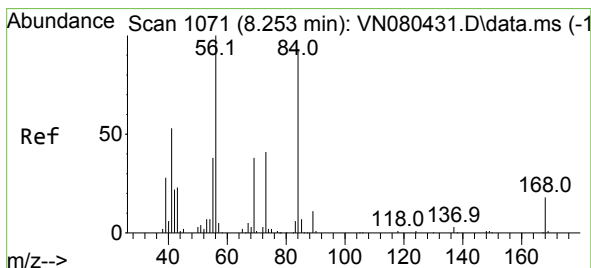
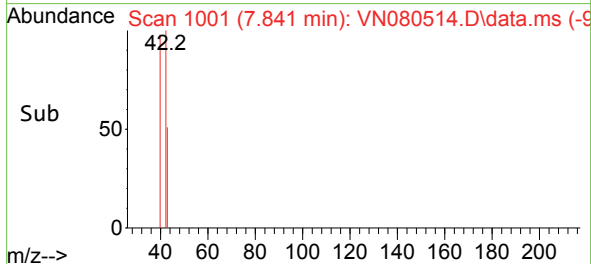
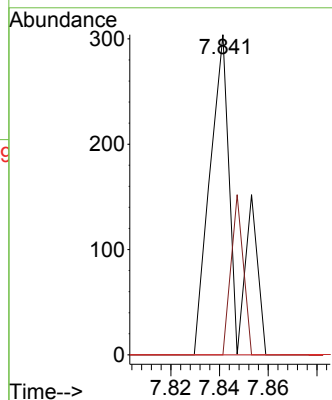
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	217
Ion Ratio	Lower	Upper	
42	100		
72	24.9	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.239 ug/l

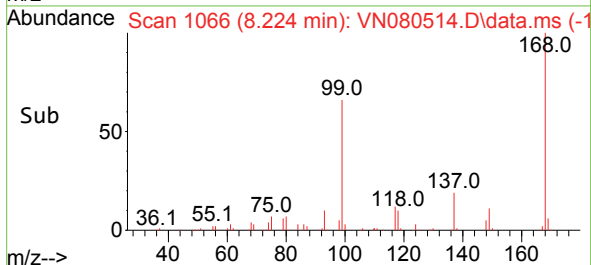
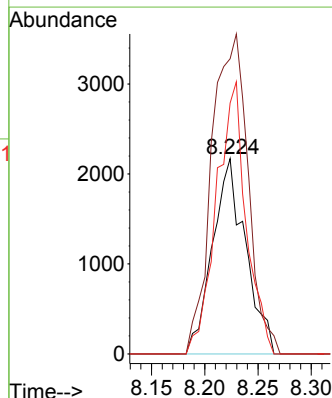
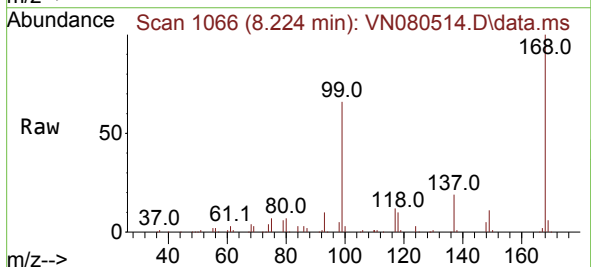
RT: 8.224 min Scan# 1066

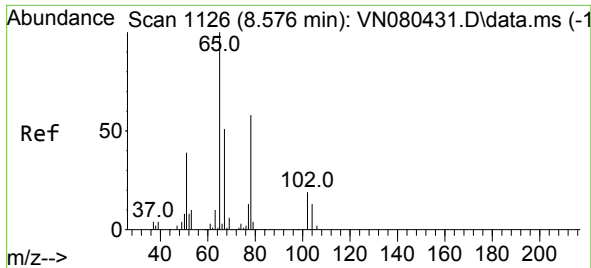
Delta R.T. -0.029 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

Tgt Ion:	56	Resp:	4672
Ion Ratio	Lower	Upper	
56	100		
69	151.2	26.8	40.2#
84	128.5	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 51.839 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

Instrument :

MSVOA_N

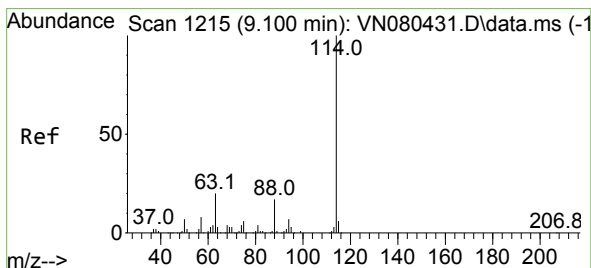
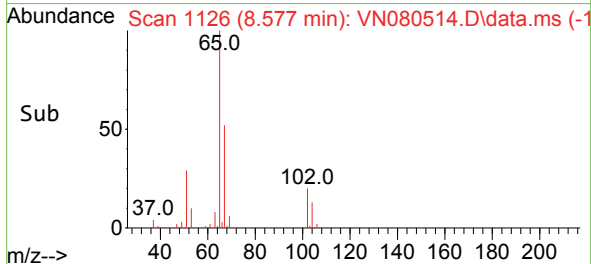
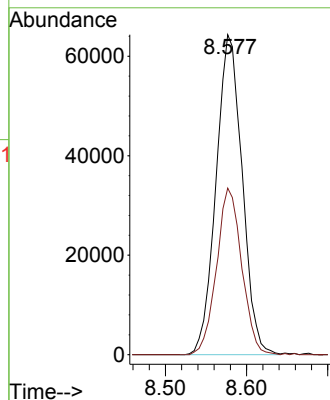
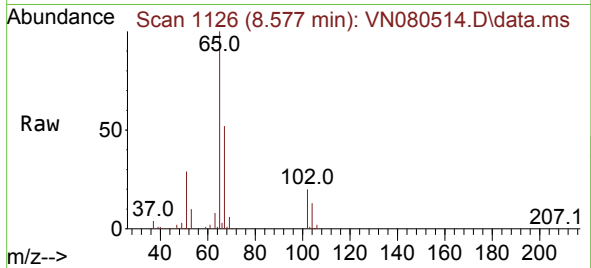
ClientSampleId :

Tgt Ion: 65 Resp: 143786

Ion Ratio Lower Upper

65 100

67 50.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

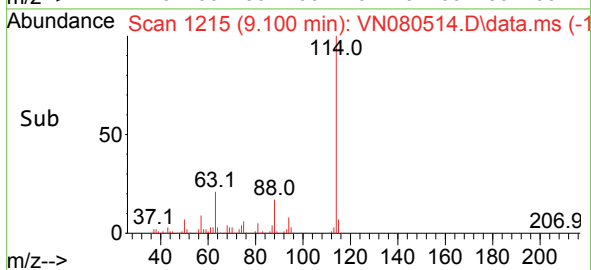
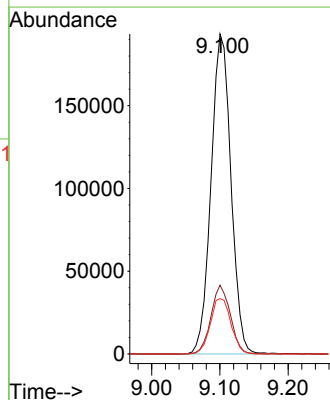
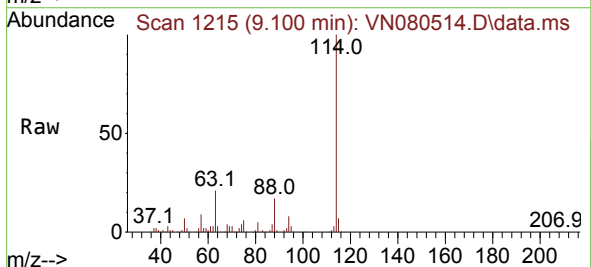
Tgt Ion: 114 Resp: 393302

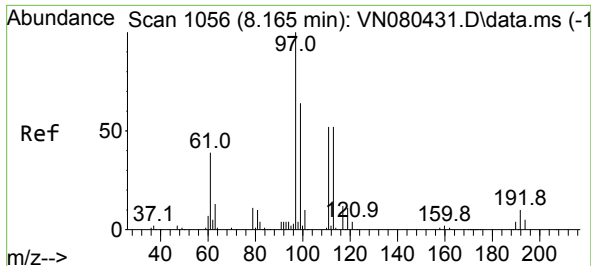
Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.4

88 17.3 0.0 30.6

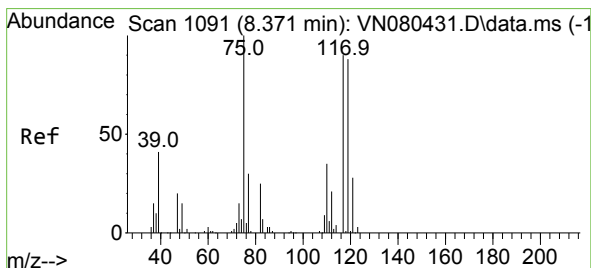
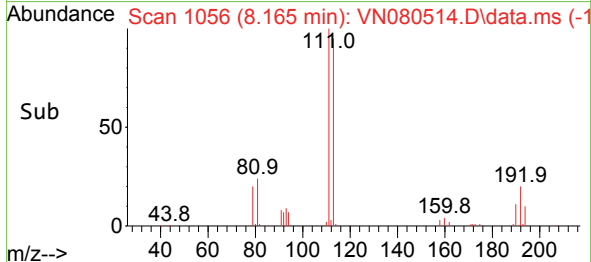
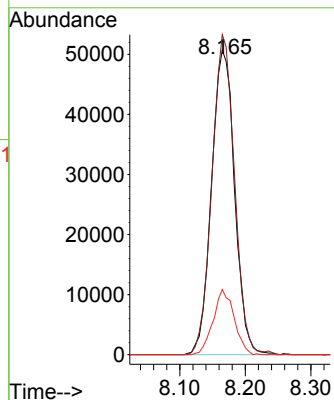
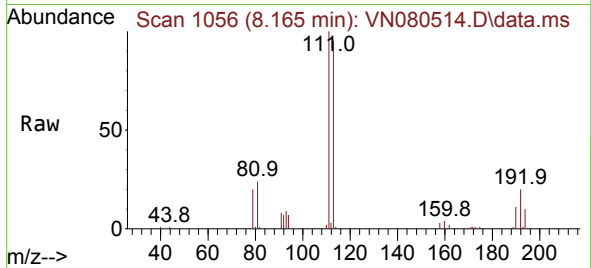




#35
Dibromofluoromethane
Concen: 49.599 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

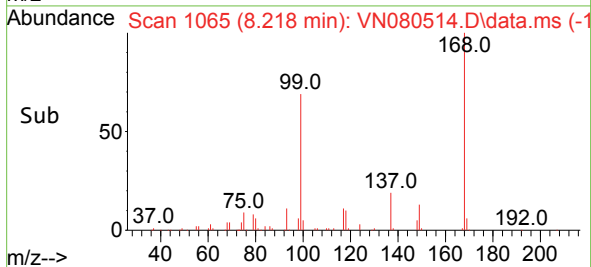
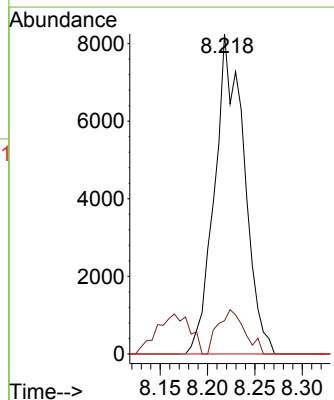
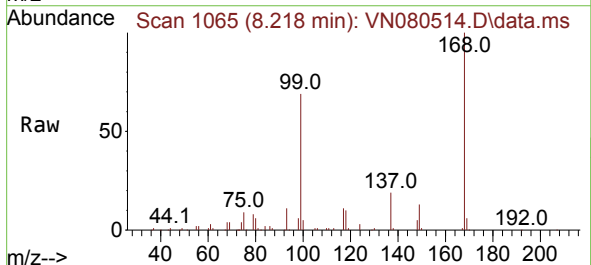
Instrument :
MSVOA_N
ClientSampleId :

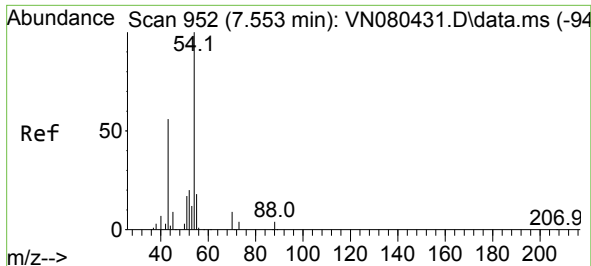
Tgt Ion:113 Resp: 123685
Ion Ratio Lower Upper
113 100
111 102.7 82.6 123.8
192 19.5 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.380 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 75 Resp: 17859
Ion Ratio Lower Upper
75 100
110 12.4 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.053 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.065 min

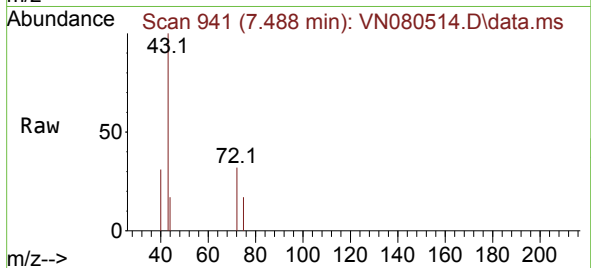
Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

Instrument :

MSVOA_N

ClientSampleId :



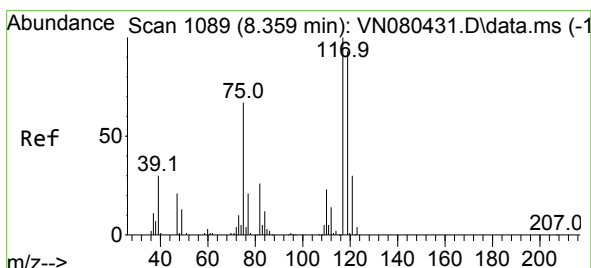
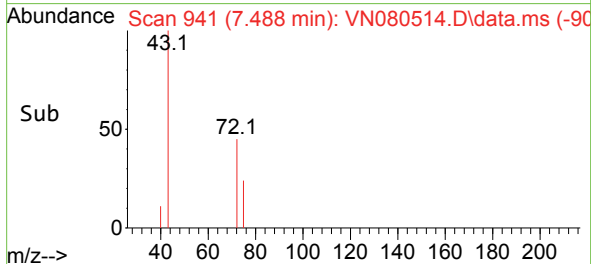
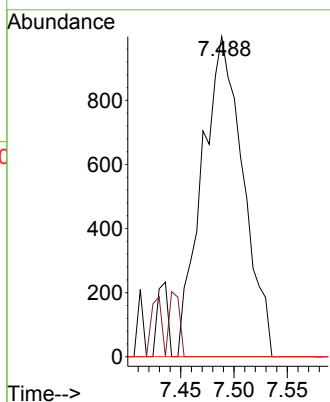
Tgt Ion: 43 Resp: 2689

Ion Ratio Lower Upper

43 100

61 0.0 13.2 19.8#

70 0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 4.954 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

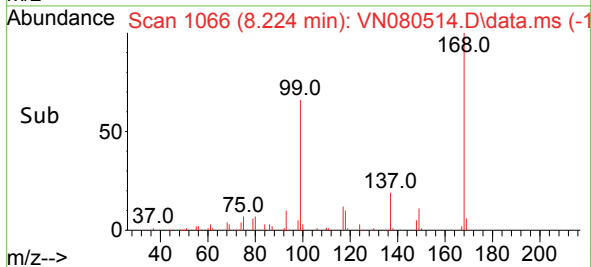
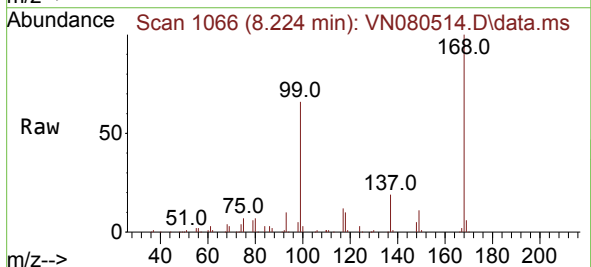
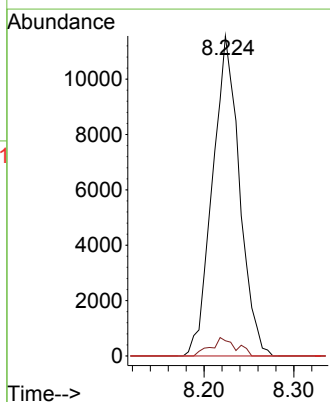
Tgt Ion: 117 Resp: 24134

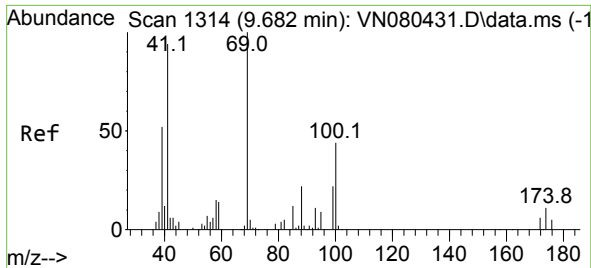
Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

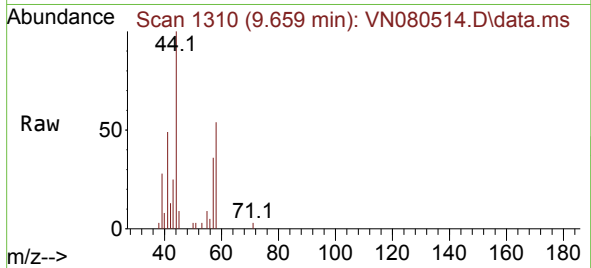
121 0.0 23.3 34.9#



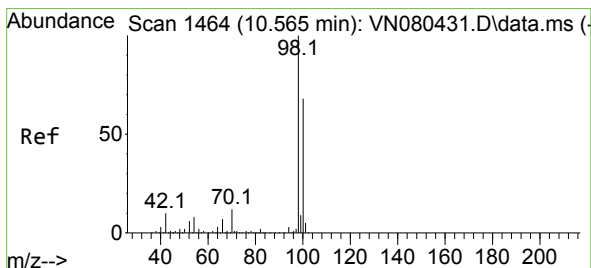
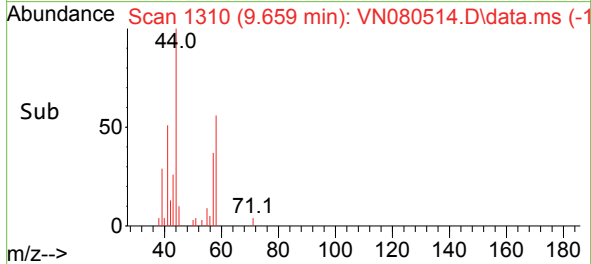
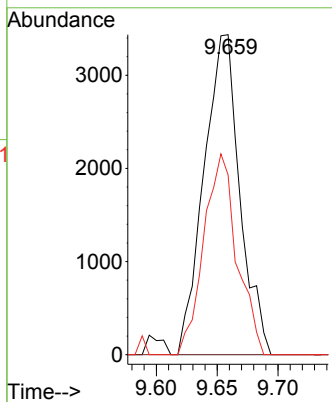


#48
Methyl methacrylate
Concen: 2.580 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Instrument :
MSVOA_N
ClientSampleId :

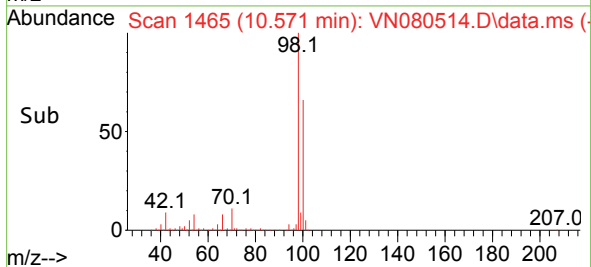
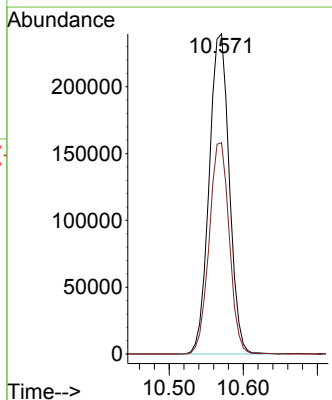
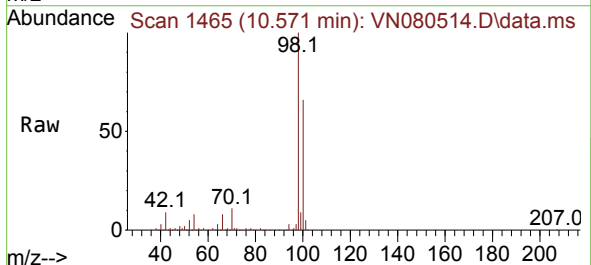


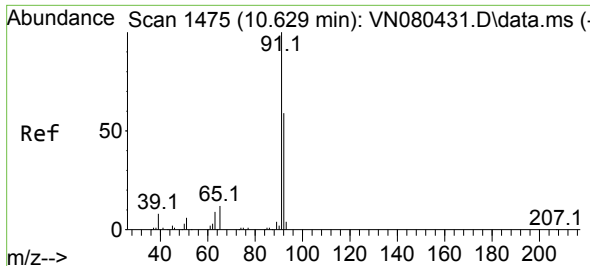
Tgt Ion: 41 Resp: 7067
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 57.9 54.6 81.8



#50
Toluene-d8
Concen: 48.613 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 98 Resp: 452113
Ion Ratio Lower Upper
98 100
100 65.8 52.0 78.0

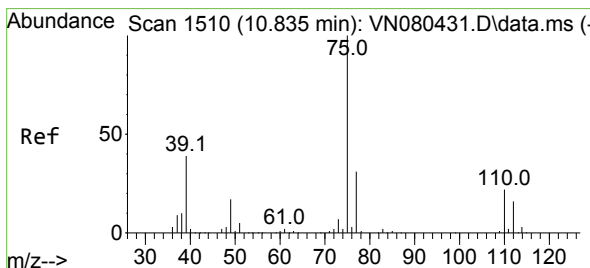
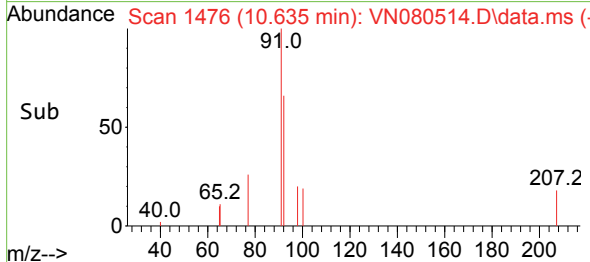
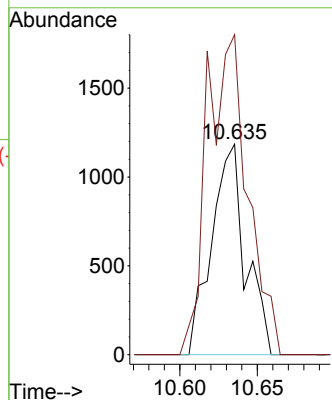
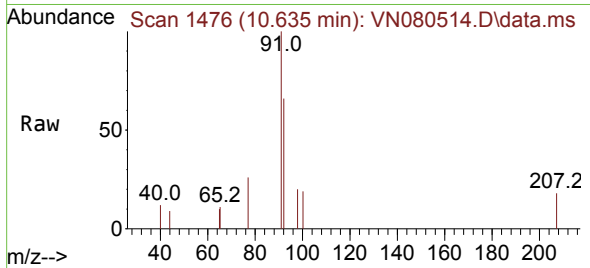




#52
Toluene
Concen: 0.243 ug/l
RT: 10.635 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

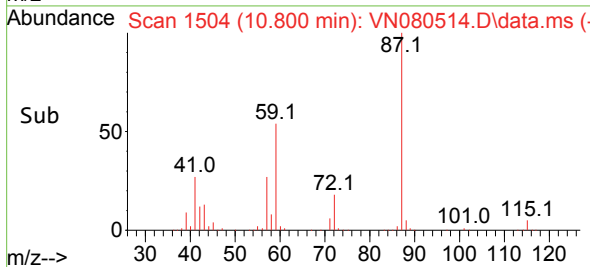
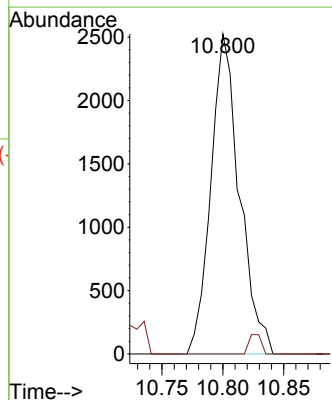
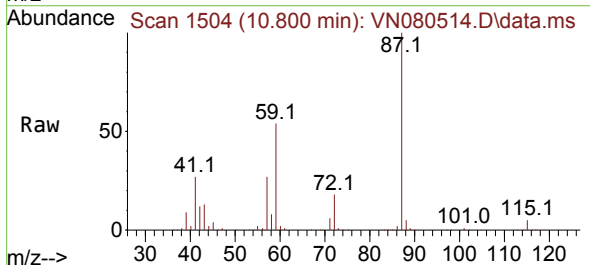
Instrument :
MSVOA_N
ClientSampleId :

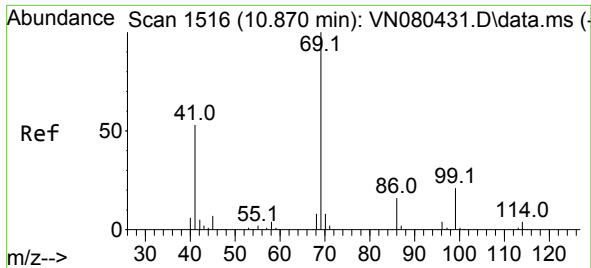
Tgt Ion: 92 Resp: 1804
Ion Ratio Lower Upper
92 100
91 182.2 137.4 206.0



#53
t-1,3-Dichloropropene
Concen: 0.895 ug/l
RT: 10.800 min Scan# 1504
Delta R.T. -0.035 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 75 Resp: 4122
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

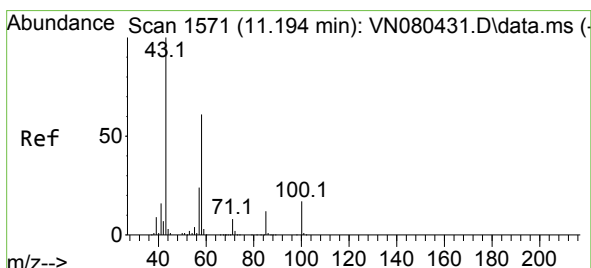
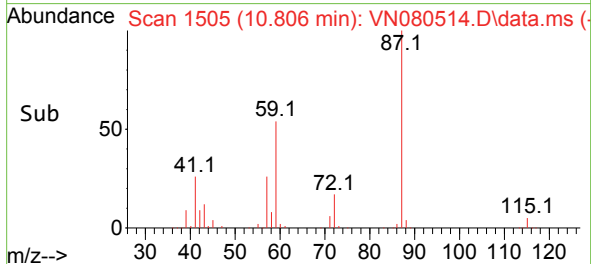
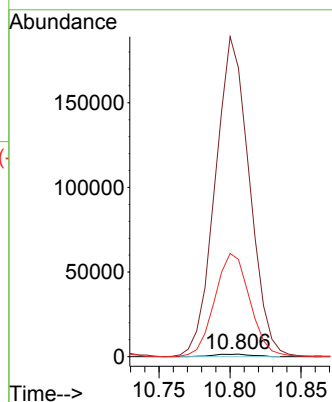
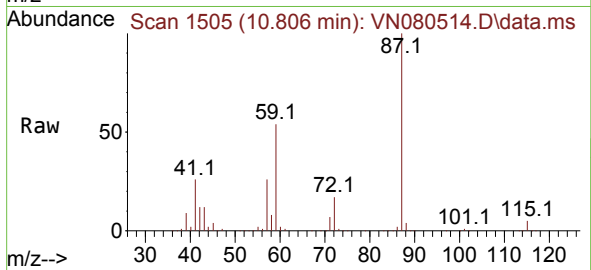




#56
Ethyl methacrylate
Concen: 0.952 ug/l
RT: 10.806 min Scan# 11
Delta R.T. -0.065 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

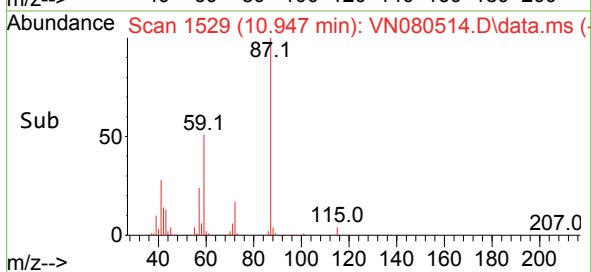
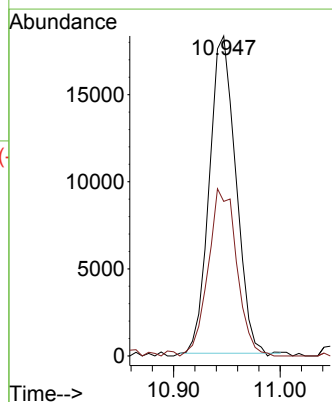
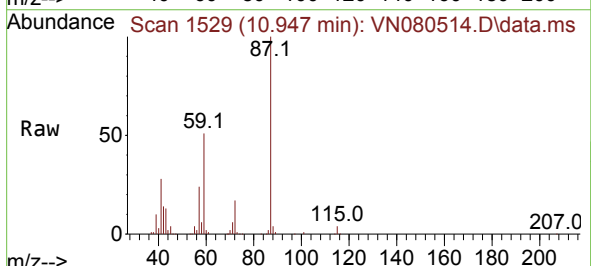
Instrument :
MSVOA_N
ClientSampleId :

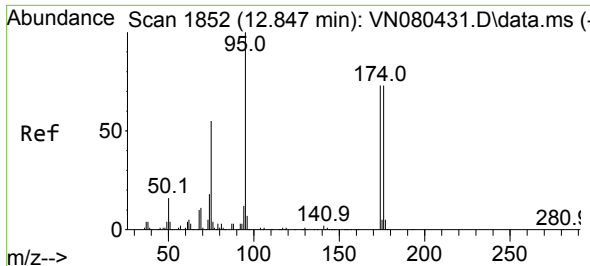
Tgt Ion: 69 Resp: 2822
Ion Ratio Lower Upper
69 100
41 11247.9 39.6 59.4#
39 3735.1 28.6 43.0#



#59
2-Hexanone
Concen: 16.797 ug/l
RT: 10.947 min Scan# 1529
Delta R.T. -0.247 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 43 Resp: 31353
Ion Ratio Lower Upper
43 100
58 57.0 31.7 95.1

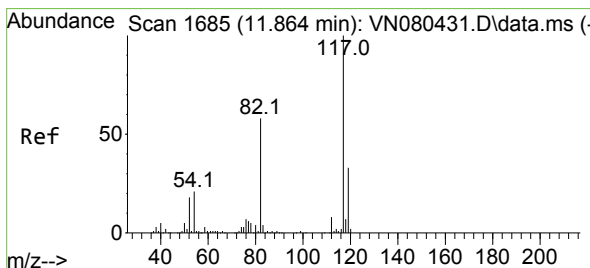
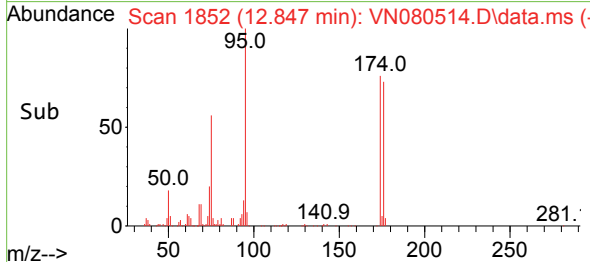
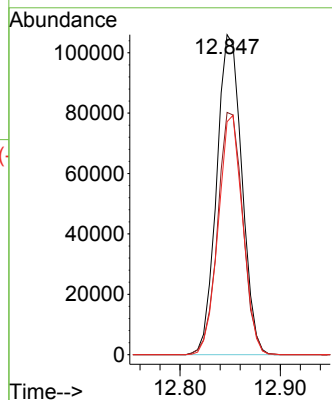
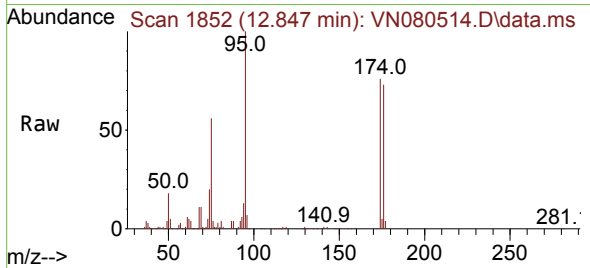




#62
4-Bromofluorobenzene
Concen: 52.434 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

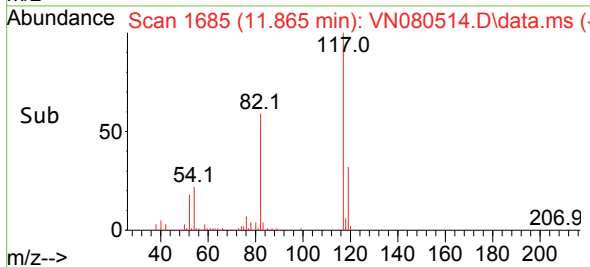
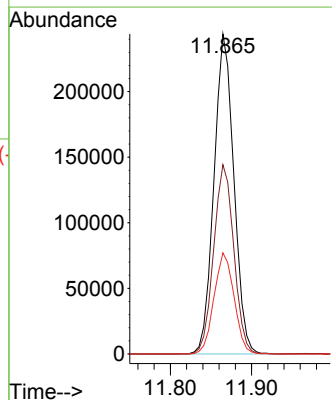
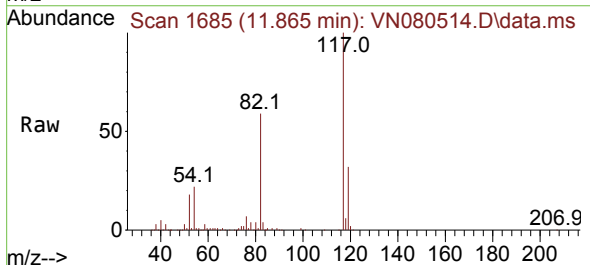
Instrument :
MSVOA_N
ClientSampleId :

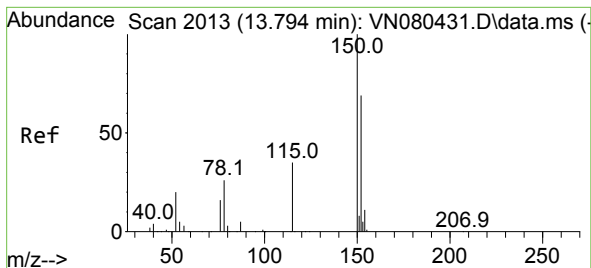
Tgt Ion: 95 Resp: 185170
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 72.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion: 117 Resp: 414937
Ion Ratio Lower Upper
117 100
82 59.2 44.0 66.0
119 31.6 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

Instrument :

MSVOA_N

ClientSampleId :

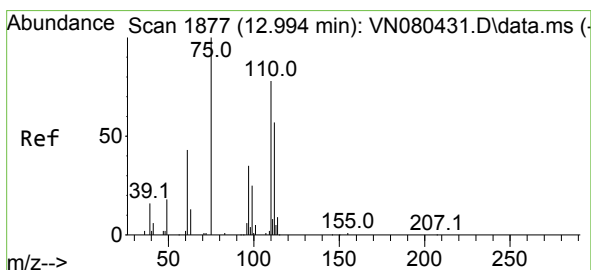
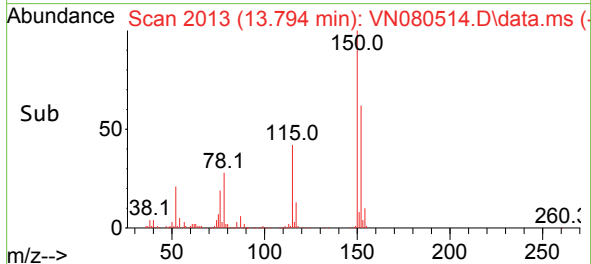
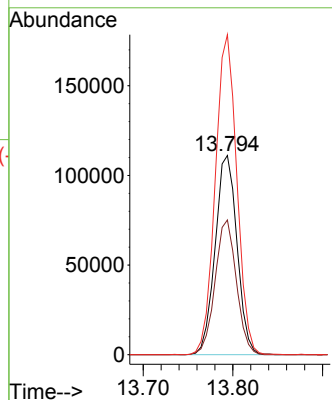
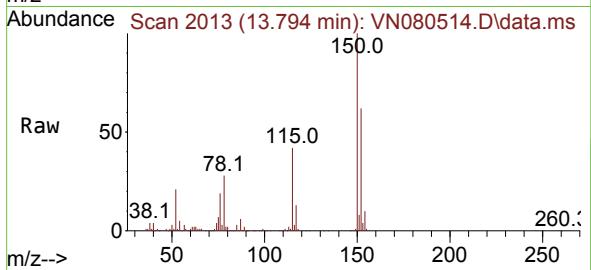
Tgt Ion:152 Resp: 187959

Ion Ratio Lower Upper

152 100

115 66.0 32.3 96.8

150 158.2 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.211 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080514.D

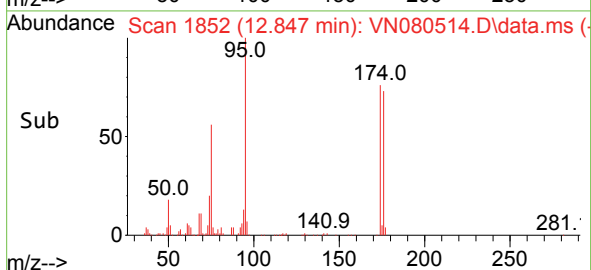
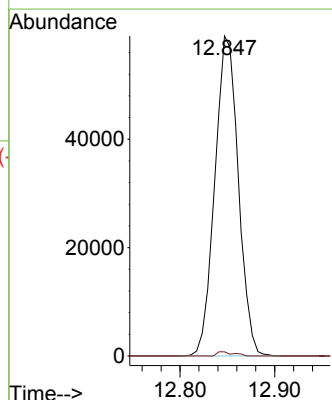
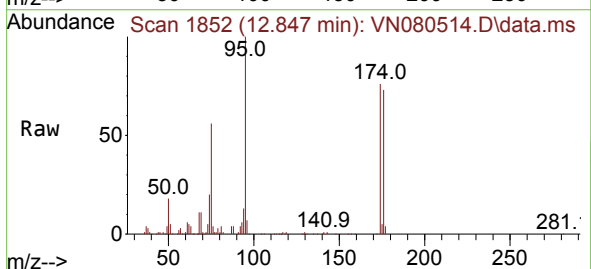
Acq: 19 Dec 2023 12:48

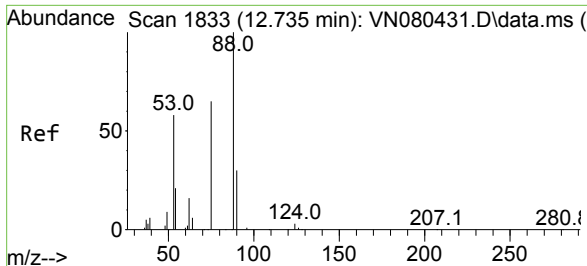
Tgt Ion: 75 Resp: 102035

Ion Ratio Lower Upper

75 100

77 0.9 84.5 253.5#

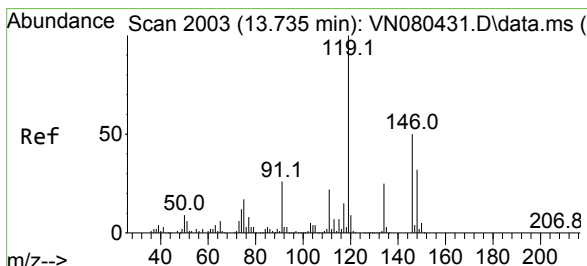
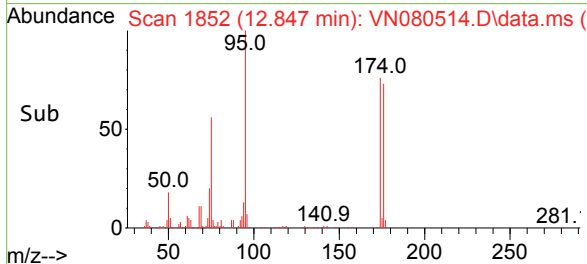
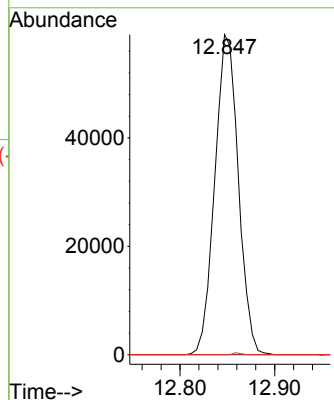
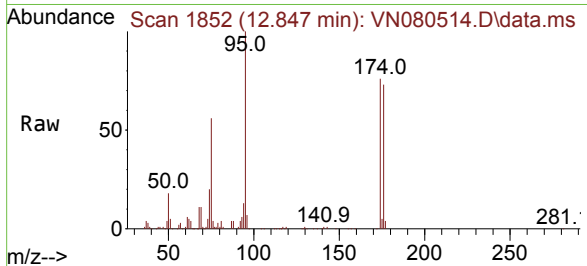




#81
trans-1,4-Dichloro-2-butene
Concen: 71.446 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

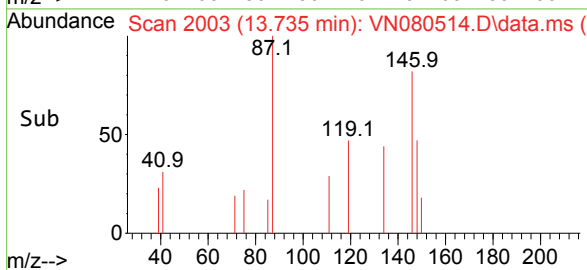
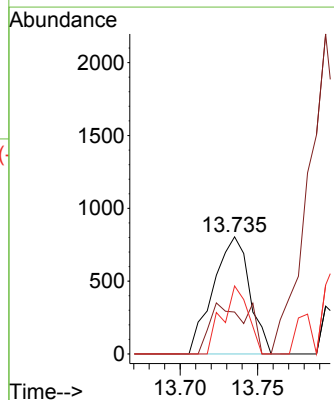
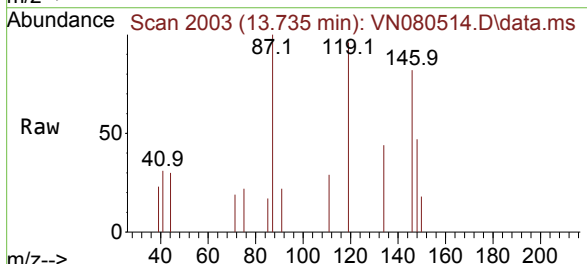
Instrument :
MSVOA_N
ClientSampleId :

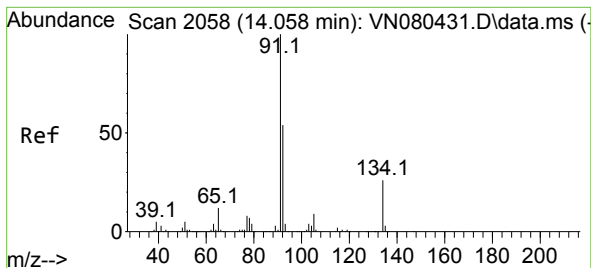
Tgt Ion: 75 Resp: 102035
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.2 38.8 58.2#



#87
1,3-Dichlorobenzene
Concen: 0.201 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Tgt Ion:146 Resp: 1313
Ion Ratio Lower Upper
146 100
111 44.4 22.1 66.3
148 41.1 32.0 96.0





#89

n-Butylbenzene

Concen: 0.275 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VN080514.D

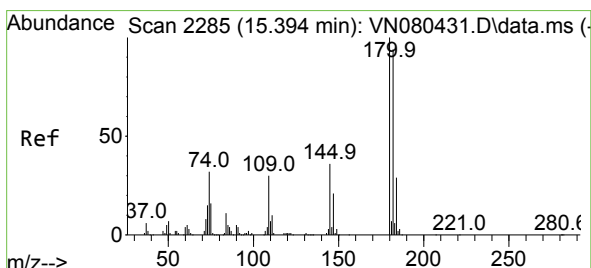
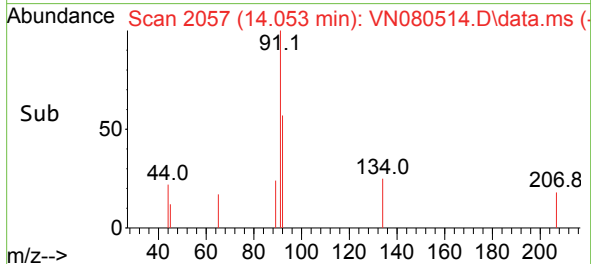
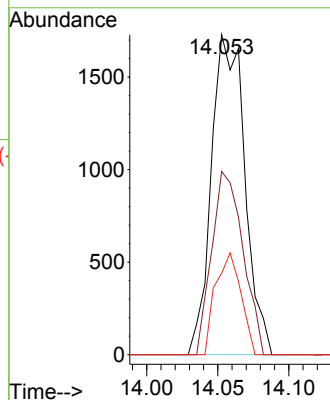
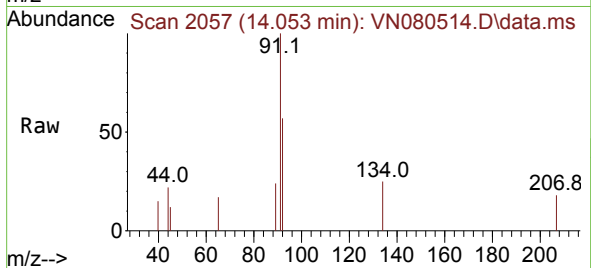
Acq: 19 Dec 2023 12:48

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	2821
Ion	Ratio	Lower Upper
91	100	
92	53.6	26.4 79.0
134	24.2	12.6 37.6



#93

1,2,4-Trichlorobenzene

Concen: 0.449 ug/l

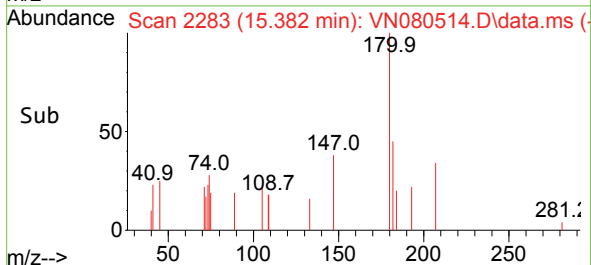
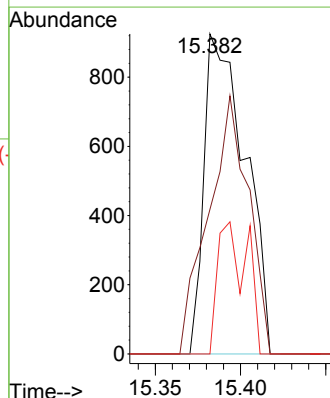
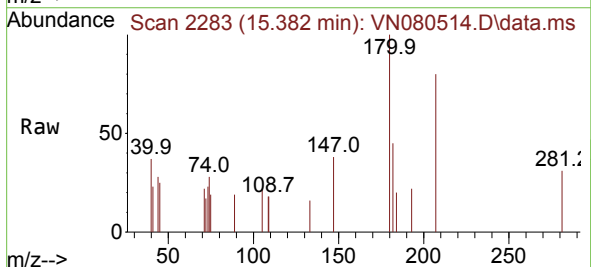
RT: 15.382 min Scan# 2283

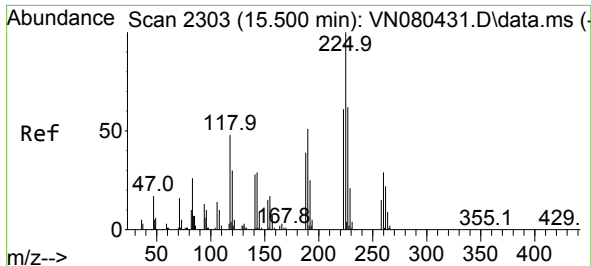
Delta R.T. -0.012 min

Lab File: VN080514.D

Acq: 19 Dec 2023 12:48

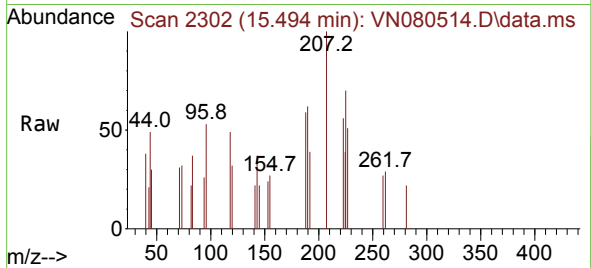
Tgt Ion: 180	Resp:	1548
Ion	Ratio	Lower Upper
180	100	
182	78.8	46.1 138.2
145	29.1	16.6 49.8



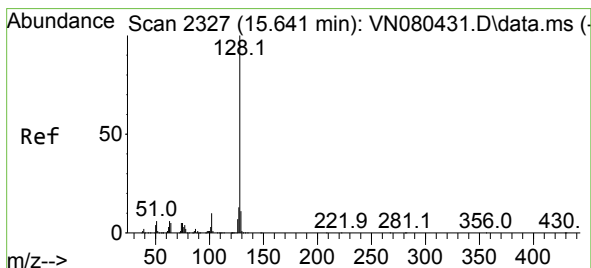
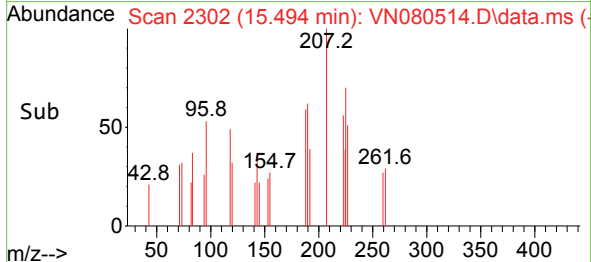
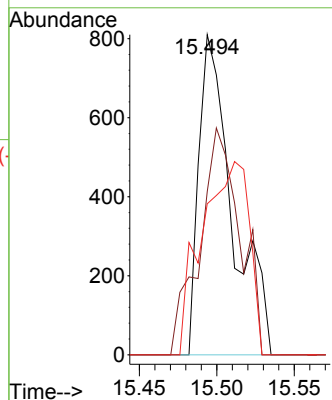


#94
Hexachlorobutadiene
Concen: 0.618 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

Instrument :
MSVOA_N
ClientSampleId :

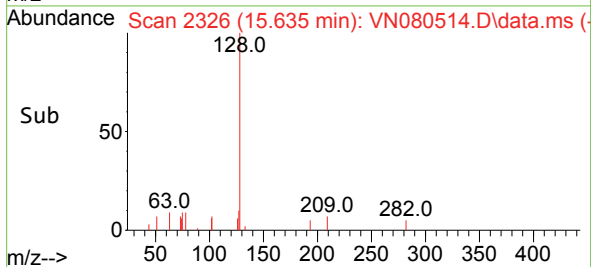
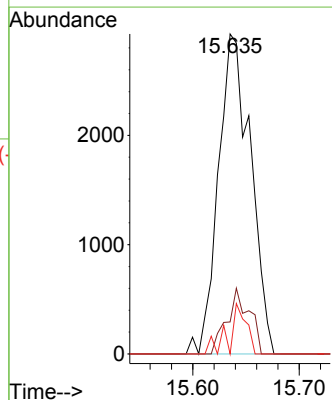
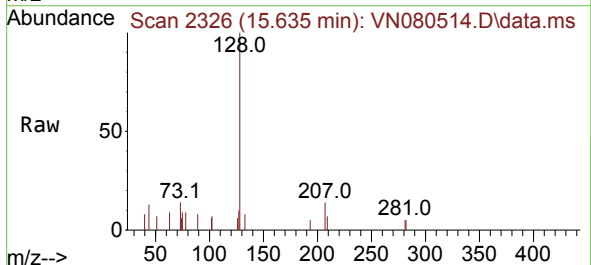


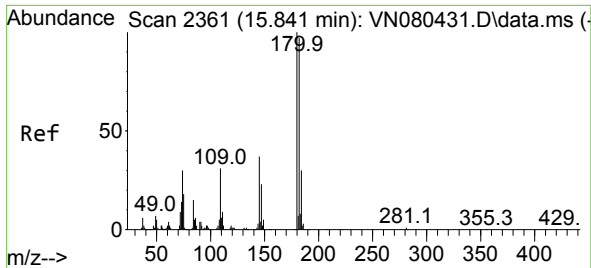
Tgt Ion:225 Resp: 1213
Ion Ratio Lower Upper
225 100
223 85.7 31.3 93.8
227 85.7 31.9 95.9



#95
Naphthalene
Concen: 0.586 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN080514.D
Acq: 19 Dec 2023 12:48

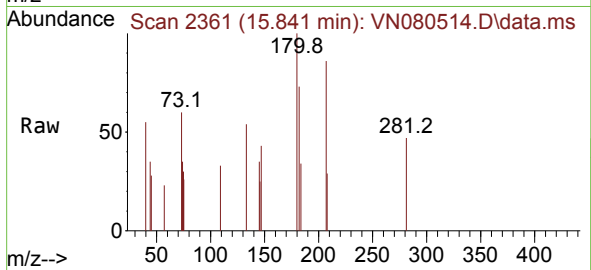
Tgt Ion:128 Resp: 6144
Ion Ratio Lower Upper
128 100
127 14.3 10.0 15.0
129 8.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.447 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN080514.D
 Acq: 19 Dec 2023 12:48

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1489
Ion	Ratio	Lower	Upper
180	100		
182	96.8	46.2	138.6
145	36.5	17.5	52.6

