

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121423\
 Data File : VN080484.D
 Acq On : 14 Dec 2023 15:52
 Operator : JC\MD
 Sample : 05670-03 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 00:28:35 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)

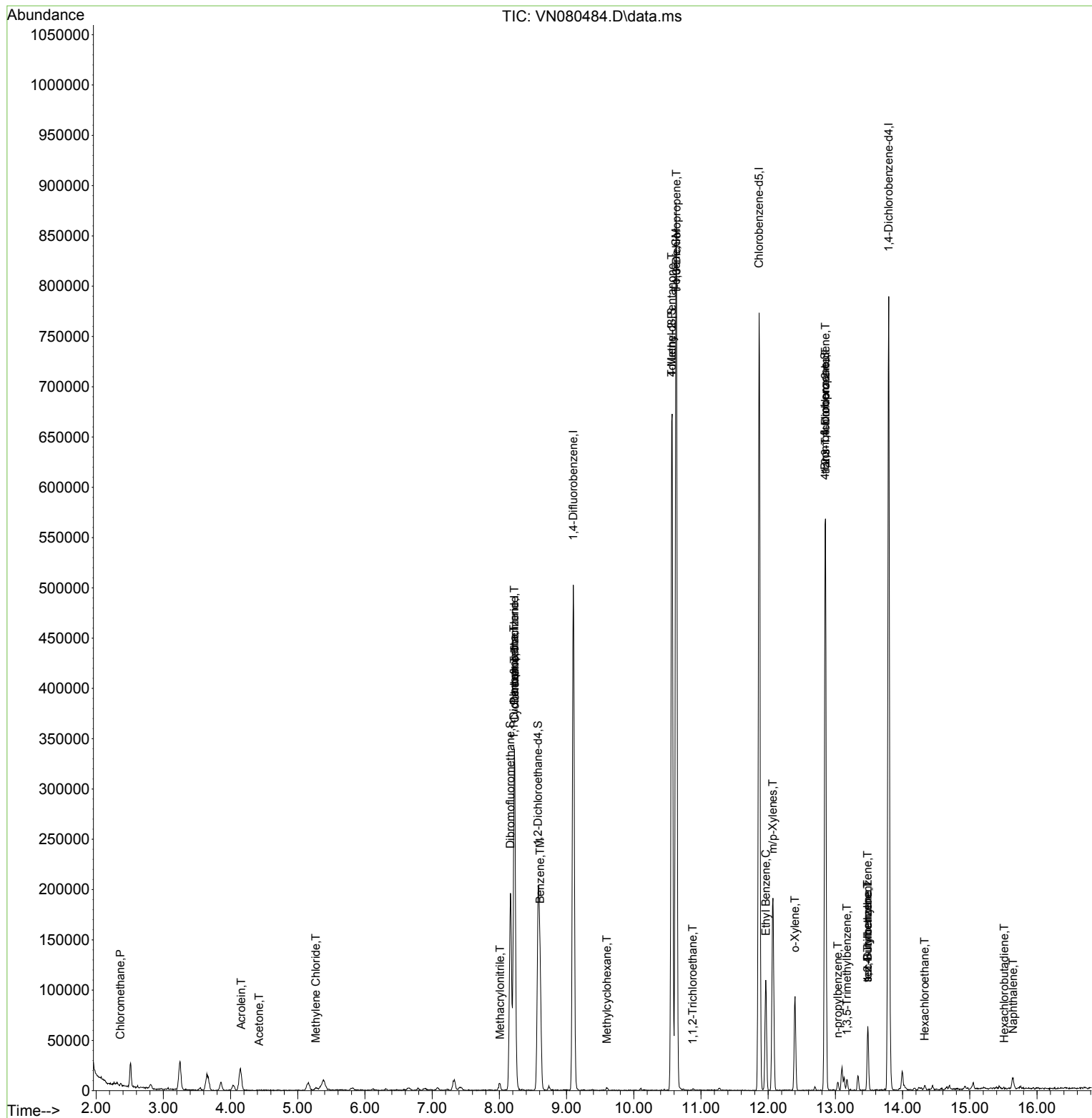
Internal Standards						
1) Pentafluorobenzene	8.224	168	238662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	433704	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	442694	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	205657	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162390	53.273	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.540%			
35) Dibromofluoromethane	8.165	113	137343	49.946	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.900%			
50) Toluene-d8	10.565	98	482512	47.049	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.100%			
62) 4-Bromofluorobenzene	12.847	95	206339	52.985	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.960%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	3064	0.561	ug/l #	71
13) Acrolein	4.159	56	1032	2.625	ug/l #	16
16) Acetone	4.424	43	397	0.735	ug/l #	40
20) Methylene Chloride	5.271	84	1197	0.414	ug/l #	82
31) Cyclohexane	8.229	56	8054	1.943	ug/l #	19
36) 1,1-Dichloropropene	8.218	75	18455	4.105	ug/l #	51
38) Carbon Tetrachloride	8.224	117	25918	4.824	ug/l #	16
39) Methylcyclohexane	9.600	83	1147	0.246	ug/l #	87
40) Benzene	8.606	78	115605	8.904	ug/l	95
41) Methacrylonitrile	8.012	41	542	0.334	ug/l #	1
51) 4-Methyl-2-Pentanone	10.565	43	1435	0.515	ug/l #	1
52) Toluene	10.629	92	404813	49.355	ug/l	98
53) t-1,3-Dichloropropene	10.635	75	5261	1.036	ug/l #	1
55) 1,1,2-Trichloroethane	10.876	97	1279	0.433	ug/l #	16
67) Ethyl Benzene	11.965	91	77318	4.270	ug/l	97
68) m/p-Xylenes	12.070	106	62056	9.274	ug/l	87
69) o-Xylene	12.400	106	25115	3.837	ug/l	91
76) 1,2,3-Trichloropropane	12.853	75	110151	26.848	ug/l #	1
78) n-propylbenzene	13.035	91	7252	0.398	ug/l	90
80) 1,3,5-Trimethylbenzene	13.170	105	6005	0.422	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.853	75	110151	70.491	ug/l #	15
83) tert-Butylbenzene	13.482	119	4352	0.373	ug/l #	56
84) 1,2,4-Trimethylbenzene	13.482	105	35565	2.513	ug/l	96
85) sec-Butylbenzene	13.482	105	35565	2.386	ug/l #	57
90) Hexachloroethane	14.329	117	518	0.242	ug/l #	21
94) Hexachlorobutadiene	15.511	225	615	0.286	ug/l #	74
95) Naphthalene	15.647	128	11580	1.010	ug/l	98

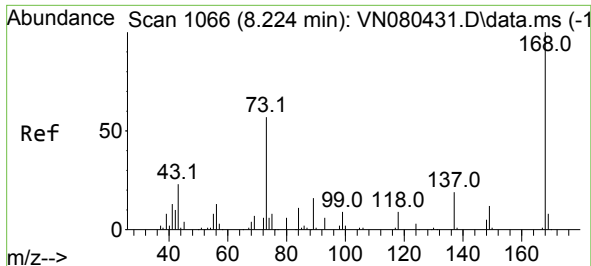
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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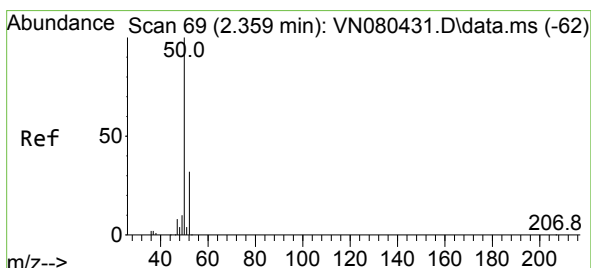
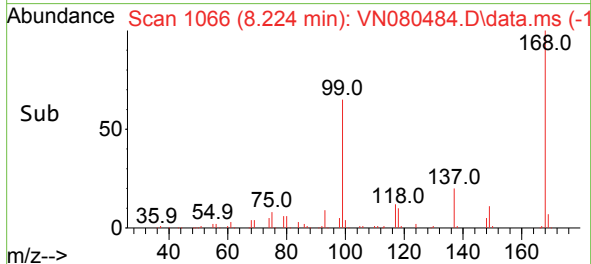
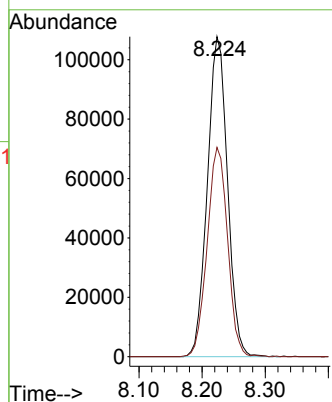
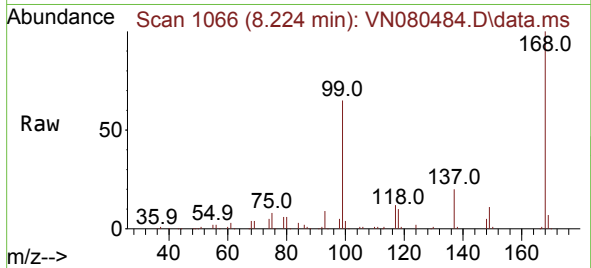




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

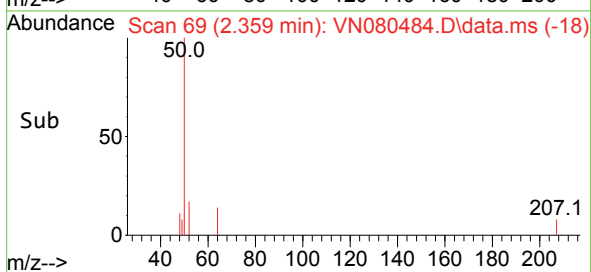
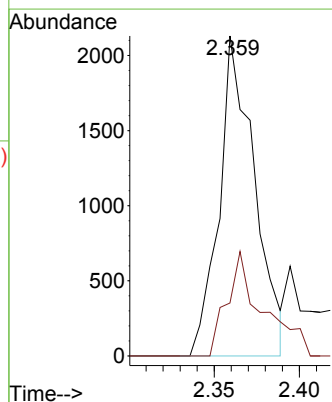
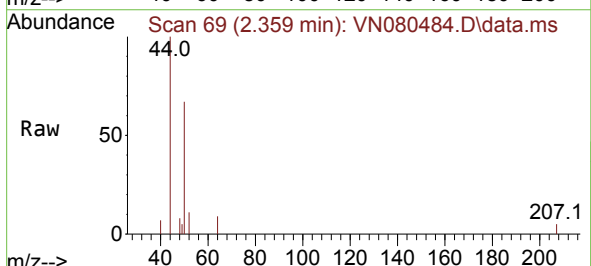
Instrument :
MSVOA_N
ClientSampleId :

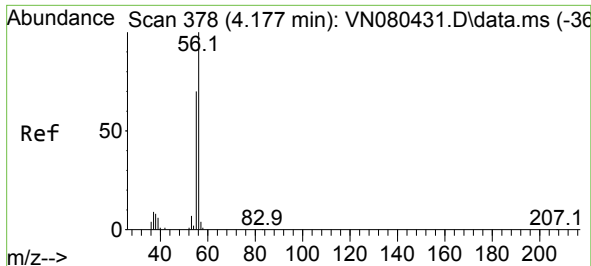
Tgt Ion:168 Resp: 238662
Ion Ratio Lower Upper
168 100
99 65.4 53.0 79.6



#3
Chloromethane
Concen: 0.561 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 50 Resp: 3064
Ion Ratio Lower Upper
50 100
52 16.5 26.5 39.7#

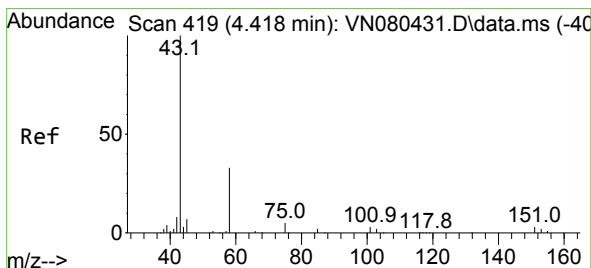
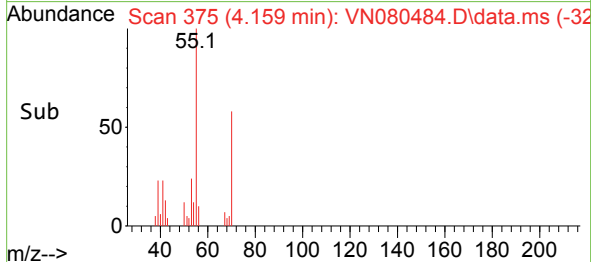
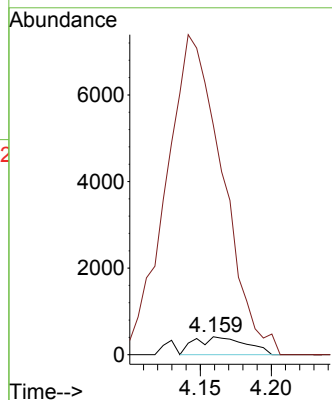
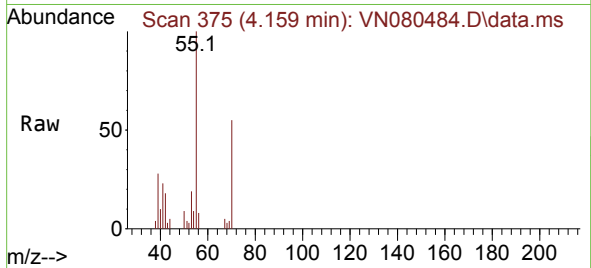




#13
Acrolein
Concen: 2.625 ug/l
RT: 4.159 min Scan# 31
Delta R.T. -0.018 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

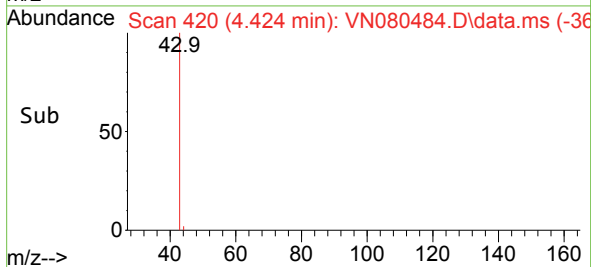
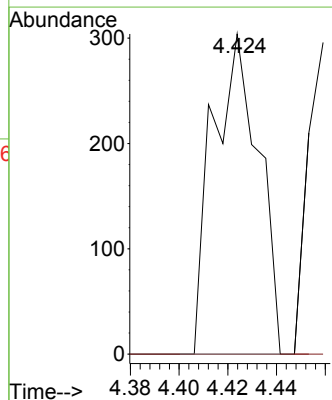
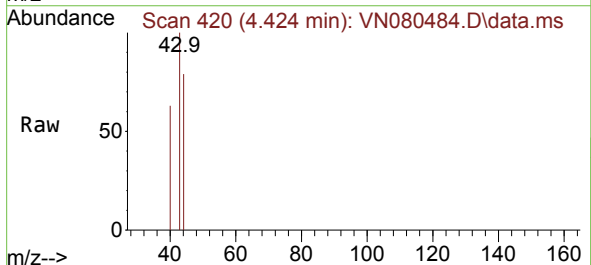
Instrument :
MSVOA_N
ClientSampleId :

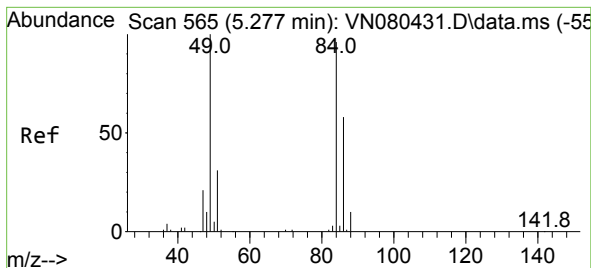
Tgt Ion: 56 Resp: 1032
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 0.735 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 43 Resp: 397
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#





#20

Methylene Chloride

Concen: 0.414 ug/l

RT: 5.271 min Scan# 5

Delta R.T. -0.006 min

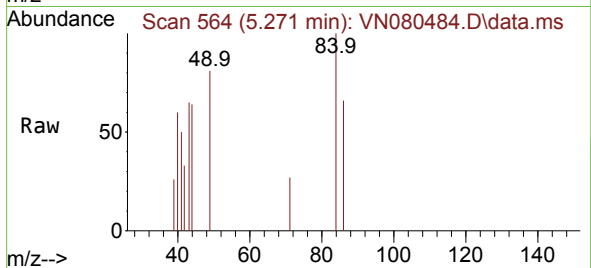
Lab File: VN080484.D

Acq: 14 Dec 2023 15:52

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 1197

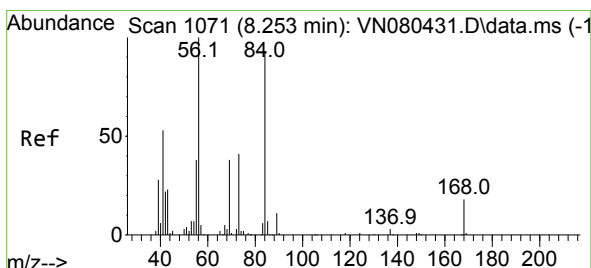
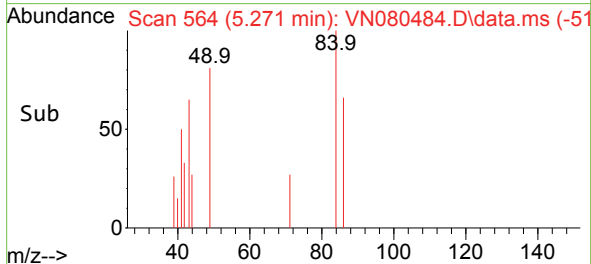
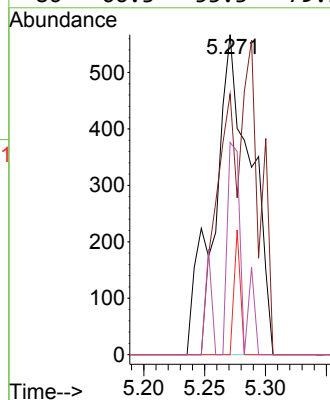
Ion Ratio Lower Upper

84 100

49 81.5 79.7 119.5

51 0.0 25.2 37.8#

86 66.3 53.3 79.9



#31

Cyclohexane

Concen: 1.943 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.023 min

Lab File: VN080484.D

Acq: 14 Dec 2023 15:52

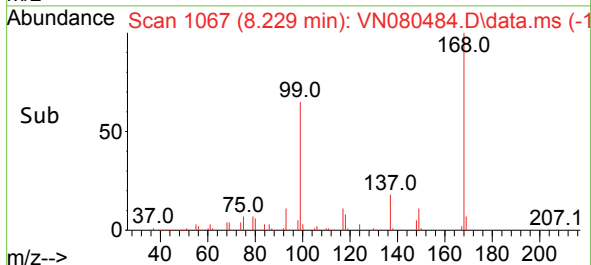
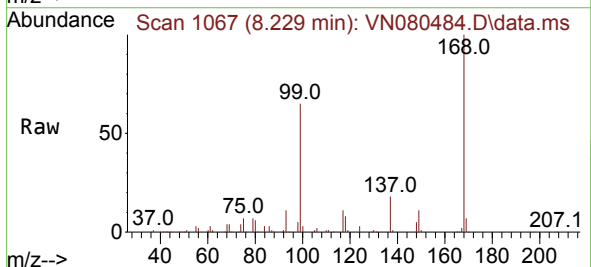
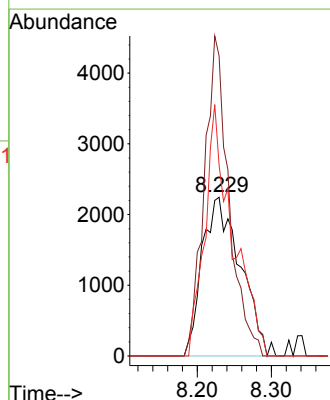
Tgt Ion: 56 Resp: 8054

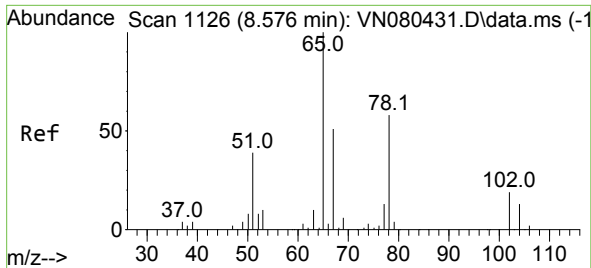
Ion Ratio Lower Upper

56 100

69 189.2 26.8 40.2#

84 120.4 81.8 122.6

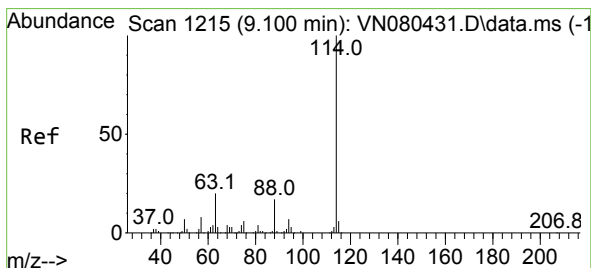
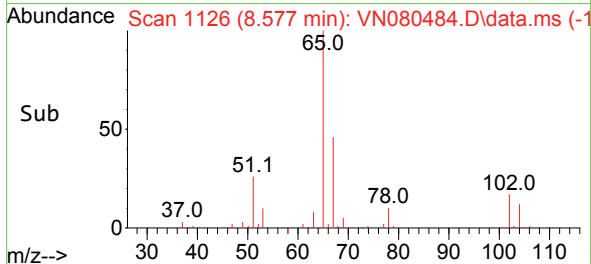
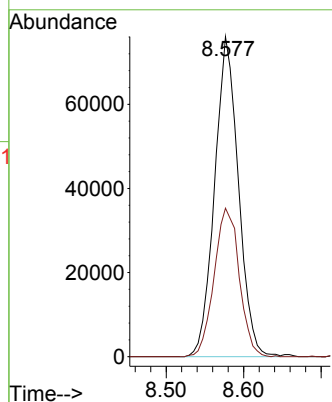
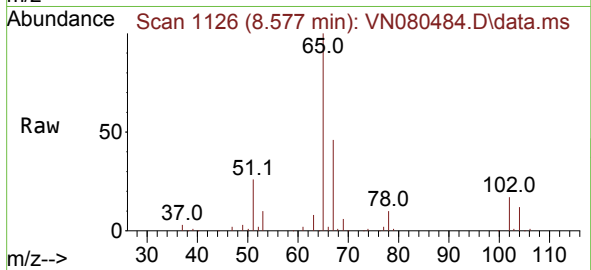




#33
 1,2-Dichloroethane-d4
 Concen: 53.273 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN080484.D
 Acq: 14 Dec 2023 15:52

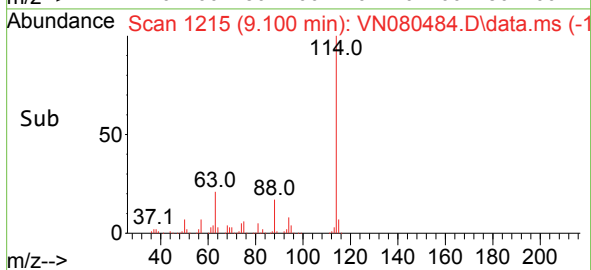
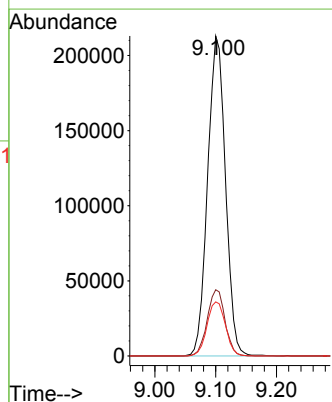
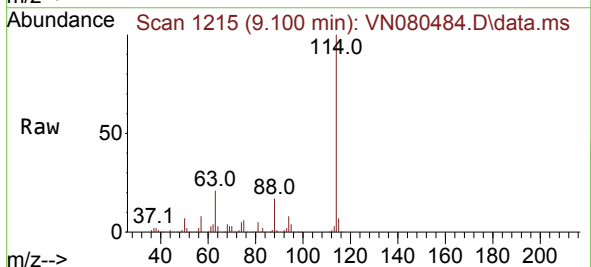
Instrument :
 MSVOA_N
 ClientSampleId :

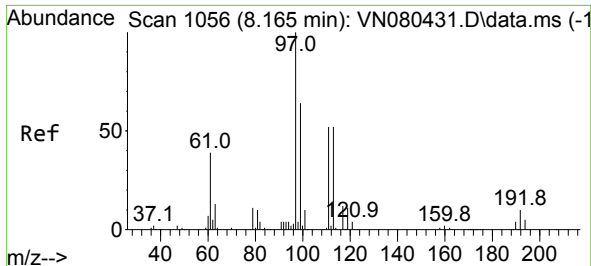
Tgt Ion: 65 Resp: 162390
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN080484.D
 Acq: 14 Dec 2023 15:52

Tgt Ion: 114 Resp: 433704
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 36.4
 88 16.9 0.0 30.6

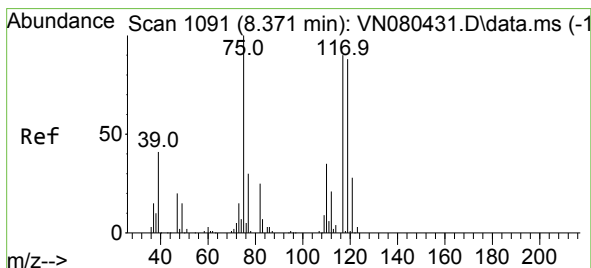
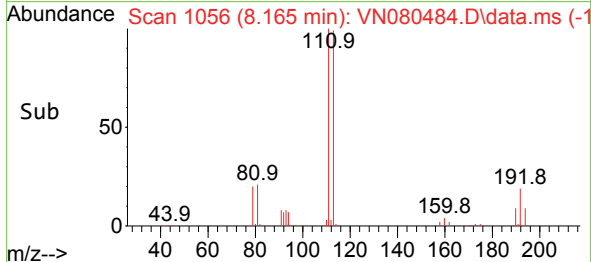
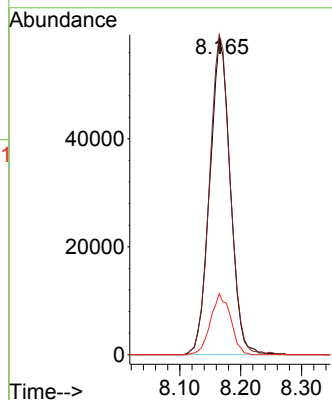
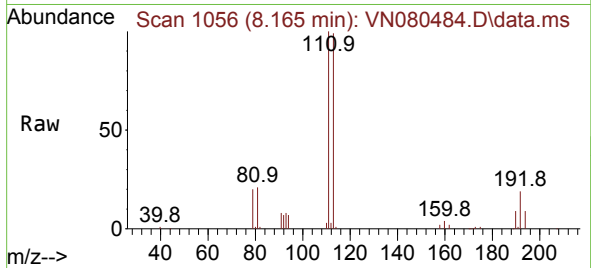




#35
Dibromofluoromethane
Concen: 49.946 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

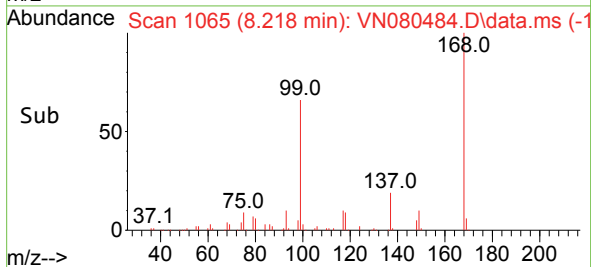
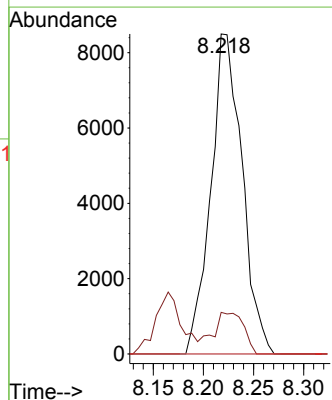
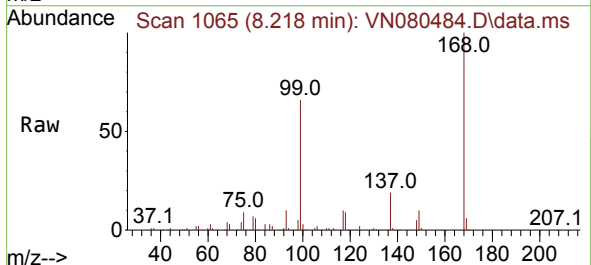
Instrument :
MSVOA_N
ClientSampleId :

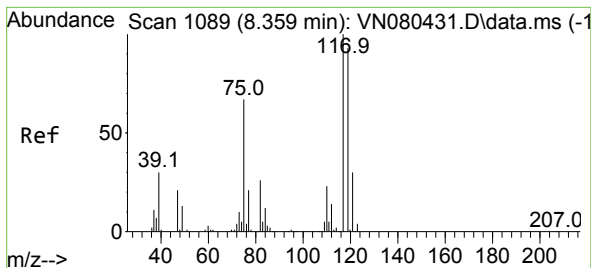
Tgt Ion:113 Resp: 137343
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 18.9 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.105 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 75 Resp: 18455
Ion Ratio Lower Upper
75 100
110 11.8 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.824 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

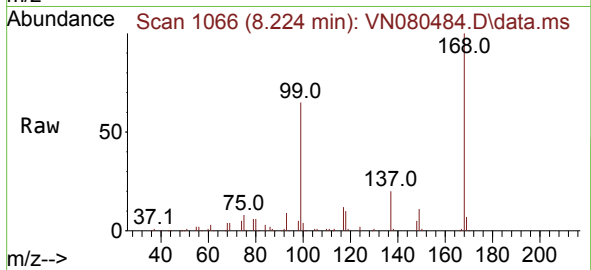
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Acq: 14 Dec 2023 15:52

Instrument :

MSVOA_N

ClientSampleId :



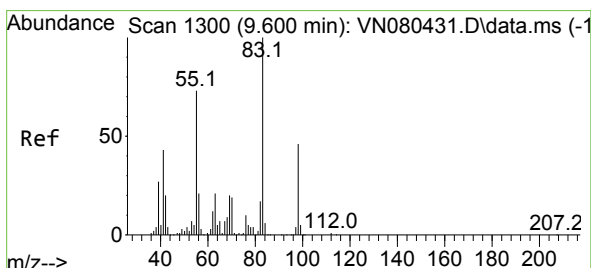
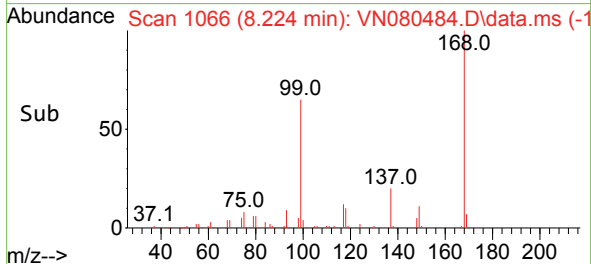
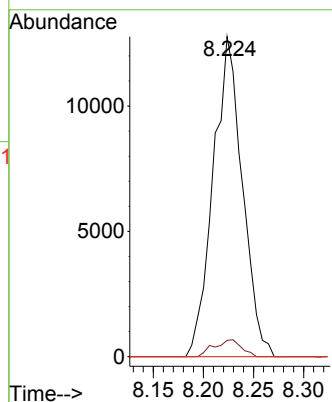
Tgt Ion:117 Resp: 25918

Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.246 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN080484.D

Acq: 14 Dec 2023 15:52

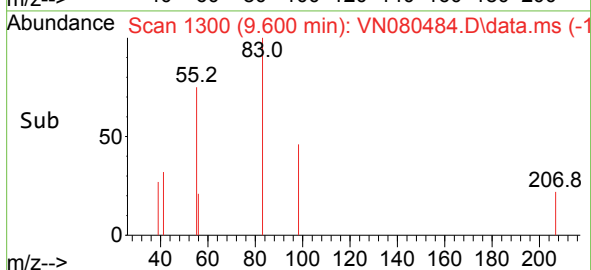
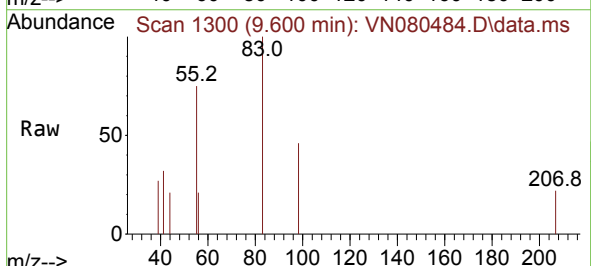
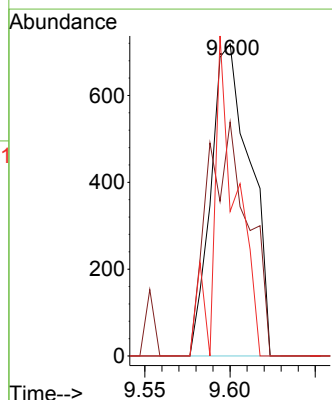
Tgt Ion: 83 Resp: 1147

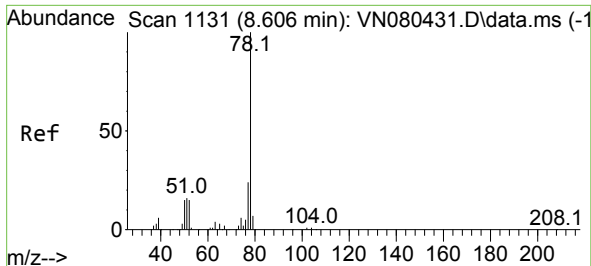
Ion Ratio Lower Upper

83 100

55 75.0 49.1 73.7#

98 46.3 40.6 61.0

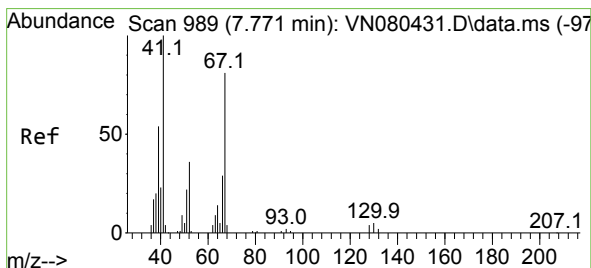
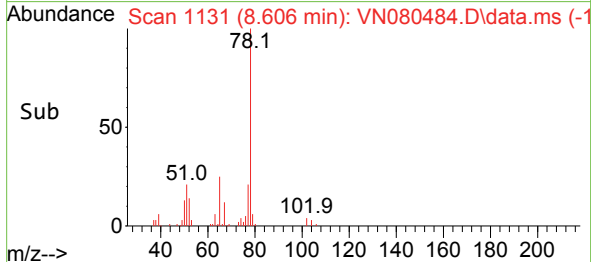
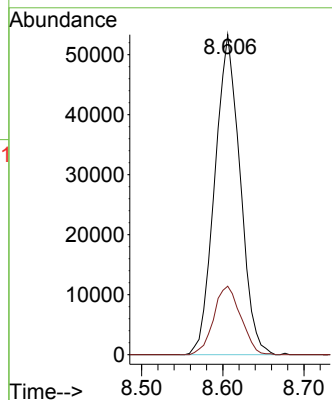
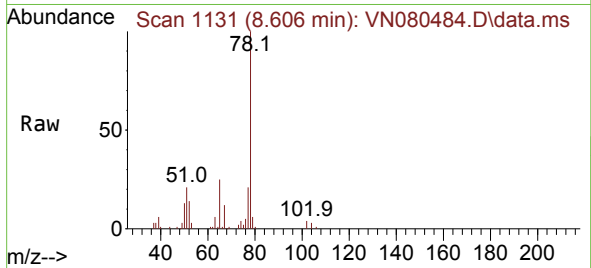




#40
Benzene
Concen: 8.904 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

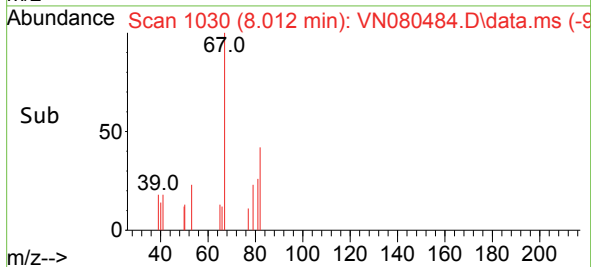
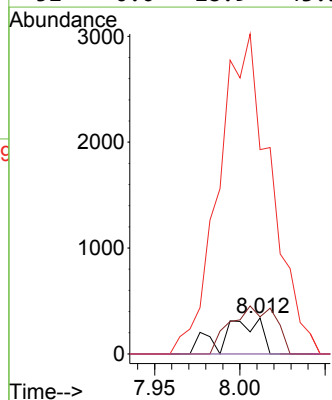
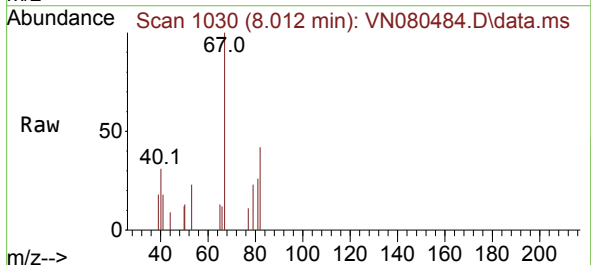
Instrument :
MSVOA_N
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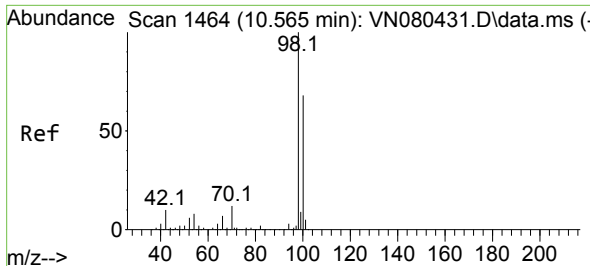
Tgt Ion: 78 Resp: 115605
Ion Ratio Lower Upper
78 100
77 21.4 19.0 28.6



#41
Methacrylonitrile
Concen: 0.334 ug/l
RT: 8.012 min Scan# 1030
Delta R.T. 0.241 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 41 Resp: 542
Ion Ratio Lower Upper
41 100
39 153.1 42.6 64.0#
67 1183.8 77.5 116.3#
52 0.0 28.9 43.3#

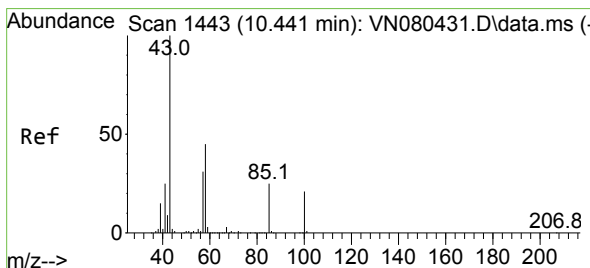
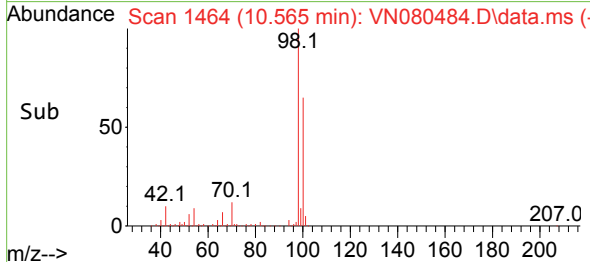
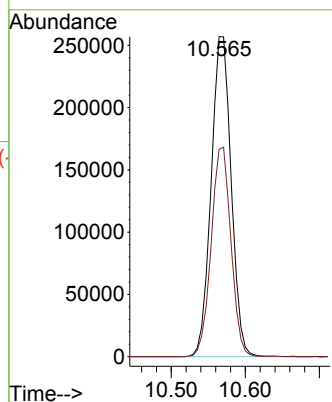
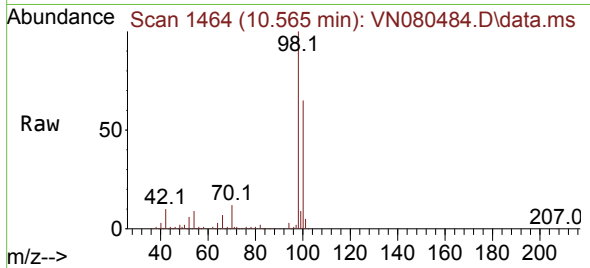




#50
Toluene-d8
Concen: 47.049 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

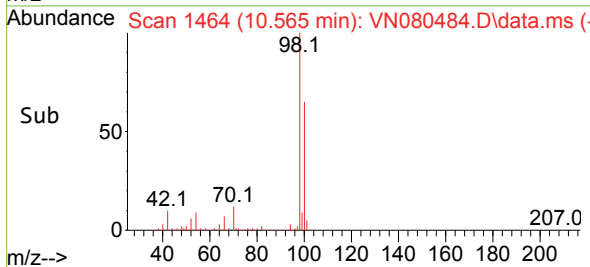
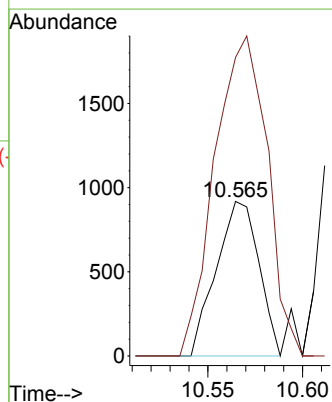
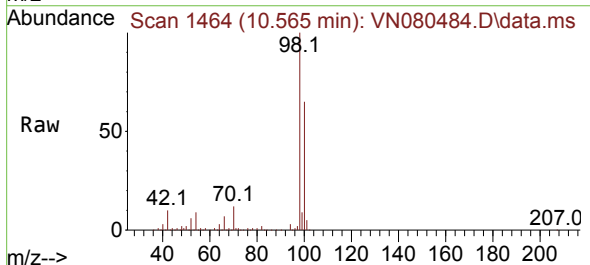
Instrument :
MSVOA_N
ClientSampleId :

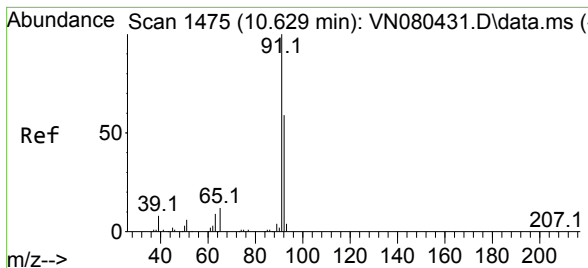
Tgt Ion: 98 Resp: 482512
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.515 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.124 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 43 Resp: 1435
Ion Ratio Lower Upper
43 100
58 254.8 36.6 54.8#





#52

Toluene

Concen: 49.355 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN080484.D

Acq: 14 Dec 2023 15:52

Instrument :

MSVOA_N

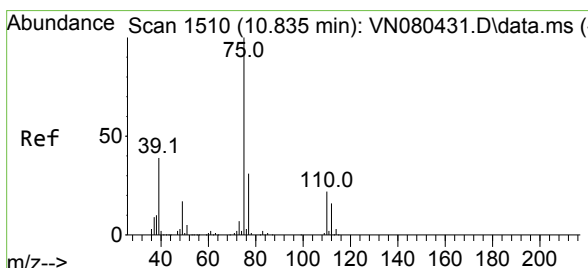
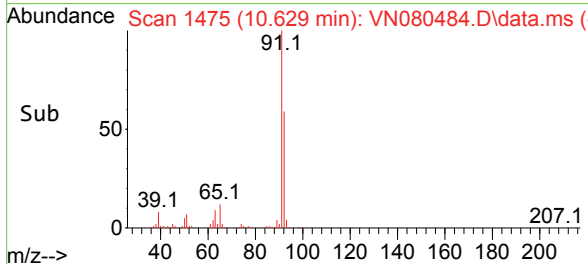
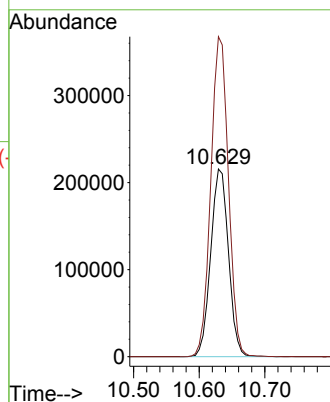
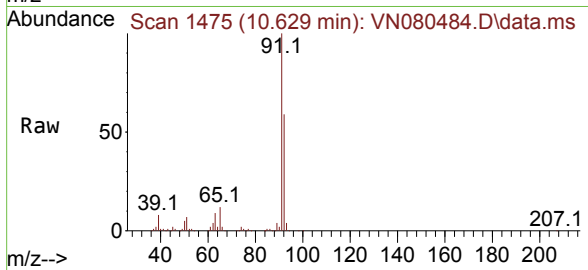
ClientSampleId :

Tgt Ion: 92 Resp: 404813

Ion Ratio Lower Upper

92 100

91 169.3 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 1.036 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.200 min

Lab File: VN080484.D

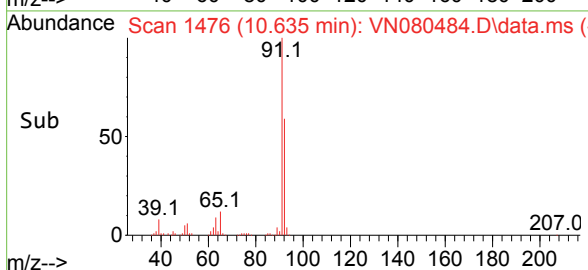
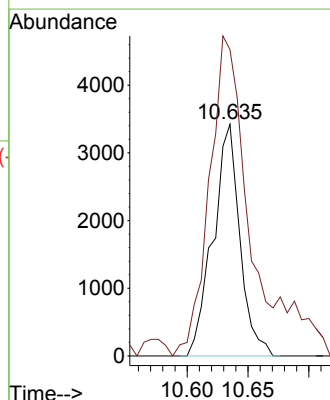
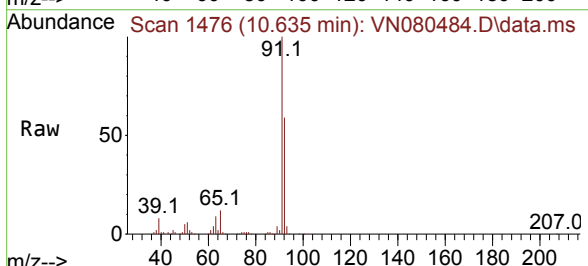
Acq: 14 Dec 2023 15:52

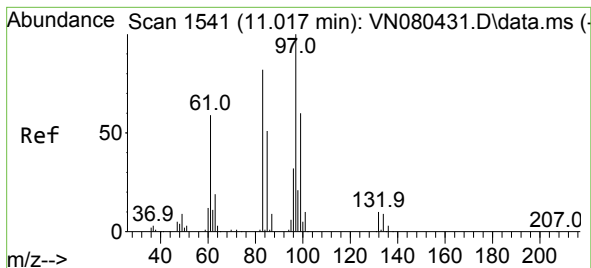
Tgt Ion: 75 Resp: 5261

Ion Ratio Lower Upper

75 100

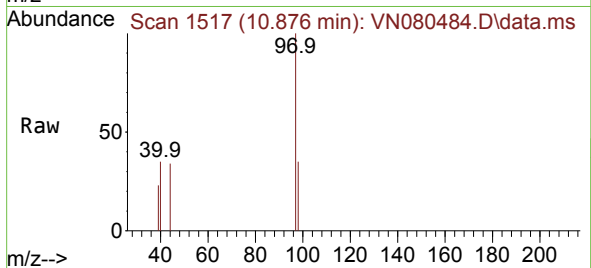
77 127.4 25.4 38.0#



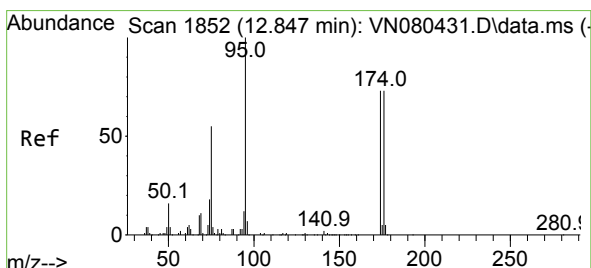
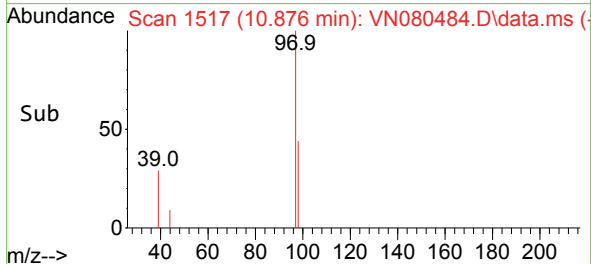
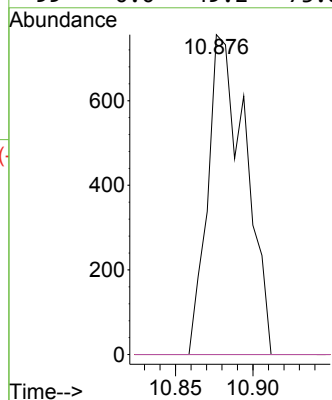


#55
1,1,2-Trichloroethane
Concen: 0.433 ug/l
RT: 10.876 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Instrument :
MSVOA_N
ClientSampleId :

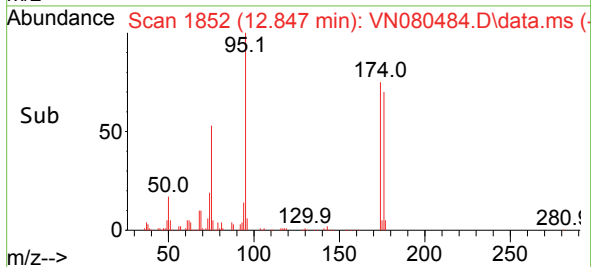
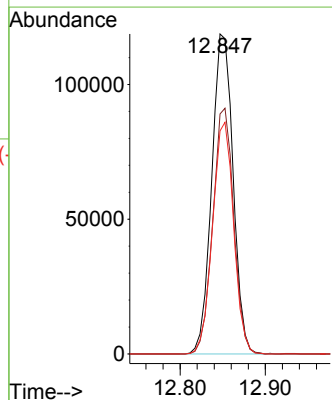
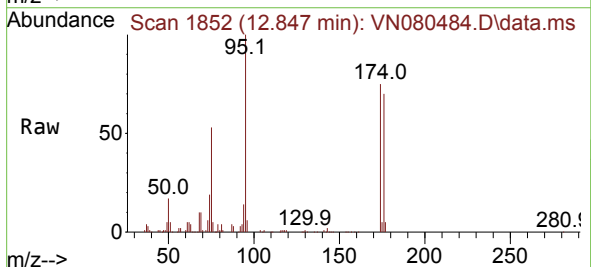


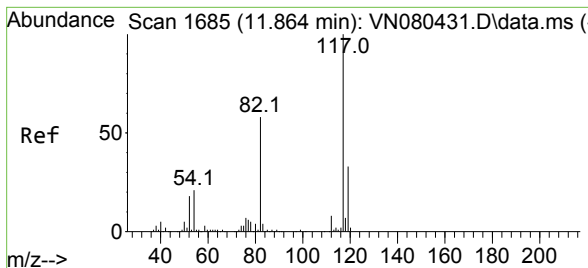
Tgt Ion: 97	Resp: 1279
Ion Ratio	Lower Upper
97 100	
83 0.0	65.1 97.7#
85 0.0	43.4 65.2#
99 0.0	49.2 73.8#



#62
4-Bromofluorobenzene
Concen: 52.985 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

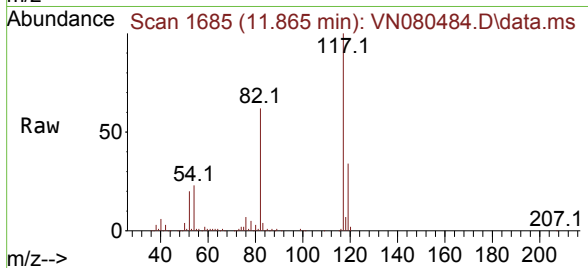
Tgt Ion: 95	Resp: 206339
Ion Ratio	Lower Upper
95 100	
174 75.5	0.0 143.8
176 71.6	0.0 135.8



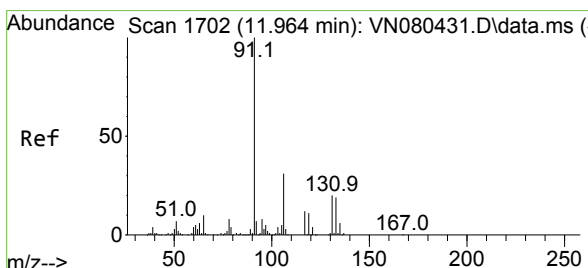
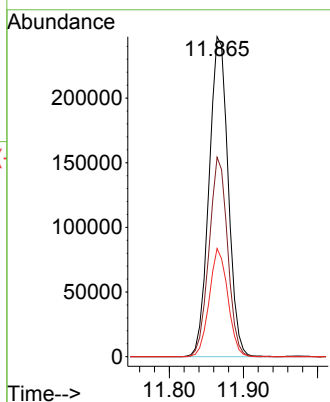
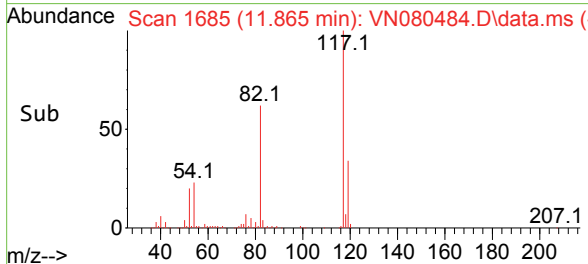


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Instrument :
MSVOA_N
ClientSampleId :

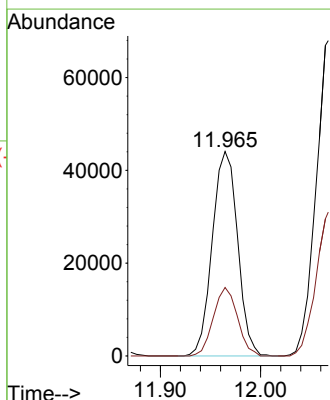
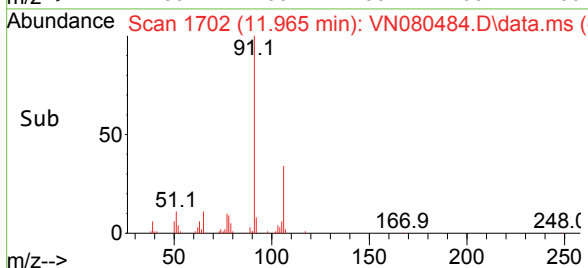
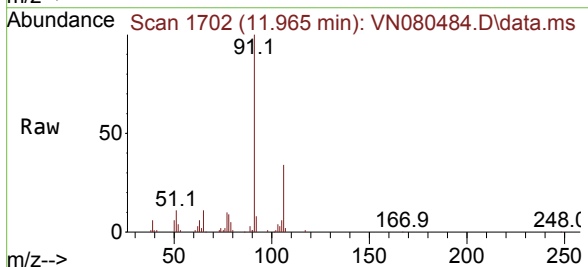


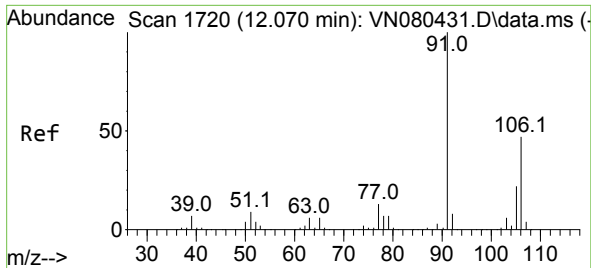
Tgt Ion:117 Resp: 442694
Ion Ratio Lower Upper
117 100
82 62.3 44.0 66.0
119 33.8 25.6 38.4



#67
Ethyl Benzene
Concen: 4.270 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 91 Resp: 77318
Ion Ratio Lower Upper
91 100
106 33.5 25.6 38.4

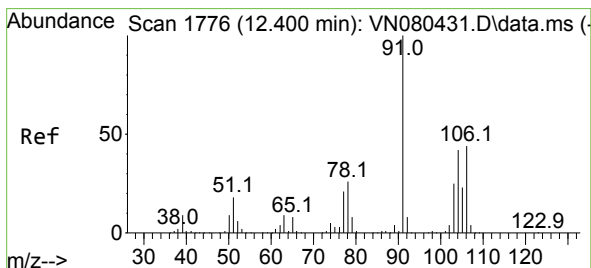
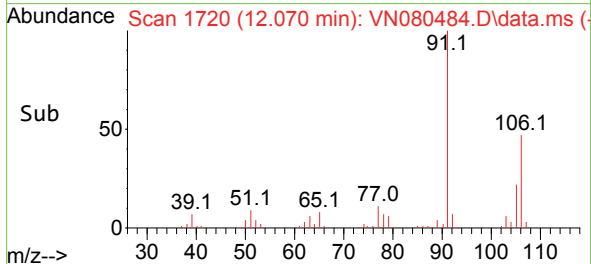
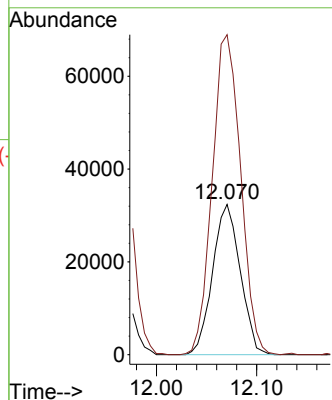
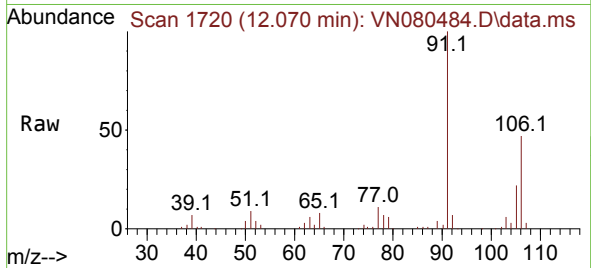




#68
m/p-Xylenes
Concen: 9.274 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

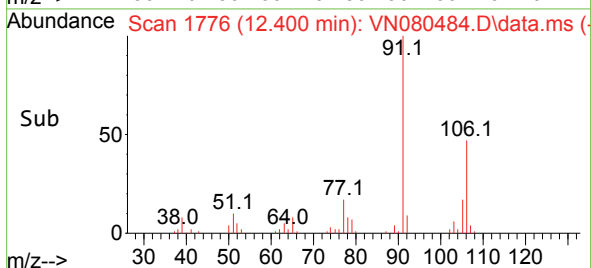
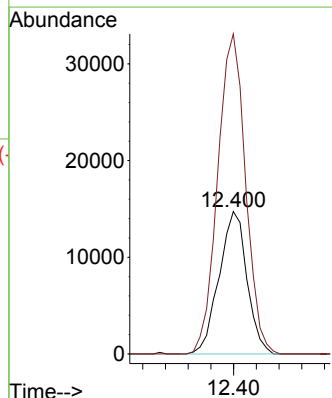
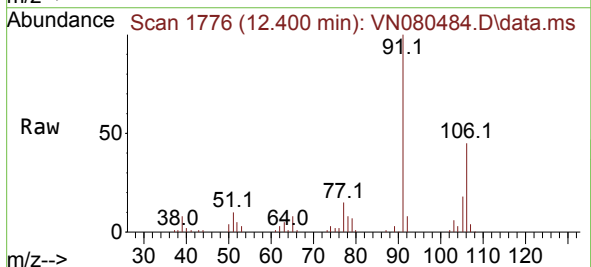
Instrument :
MSVOA_N
ClientSampleId :

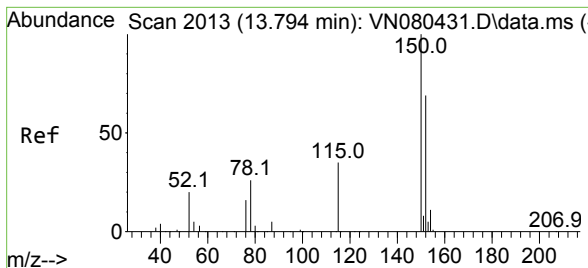
Tgt Ion:106 Resp: 62056
Ion Ratio Lower Upper
106 100
91 218.5 159.6 239.4



#69
o-Xylene
Concen: 3.837 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion:106 Resp: 25115
Ion Ratio Lower Upper
106 100
91 224.6 105.2 315.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

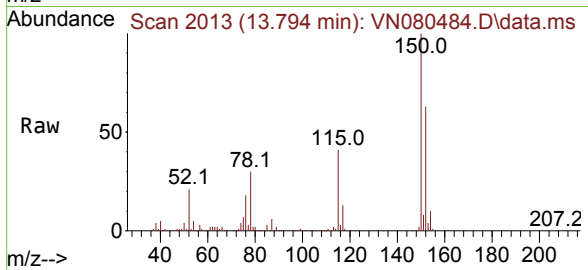
Lab File: VN080484.D

Acq: 14 Dec 2023 15:52

Instrument :

MSVOA_N

ClientSampleId :



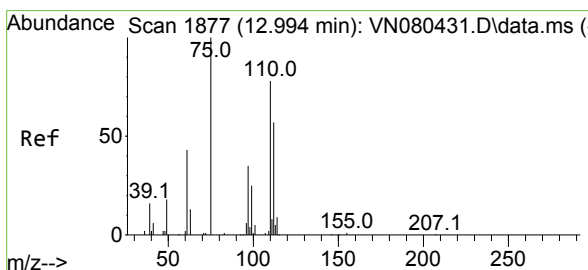
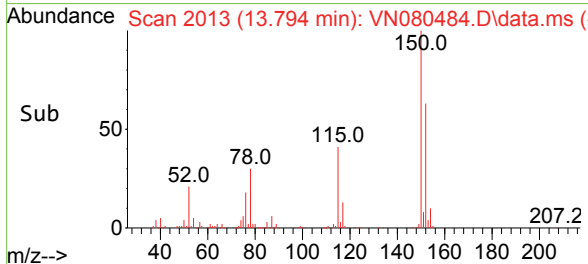
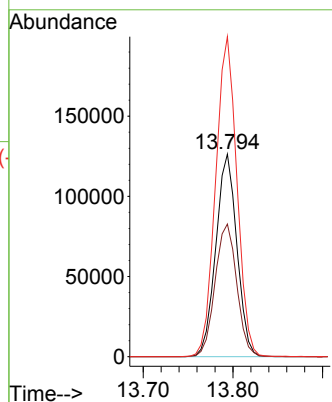
Tgt Ion:152 Resp: 205657

Ion Ratio Lower Upper

152 100

115 67.6 32.3 96.8

150 159.7 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 26.848 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080484.D

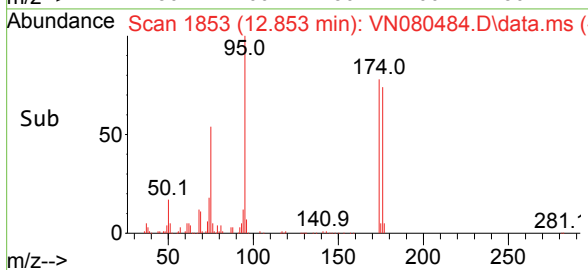
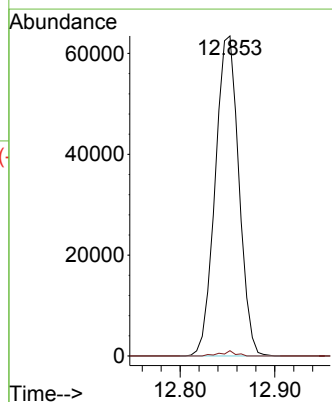
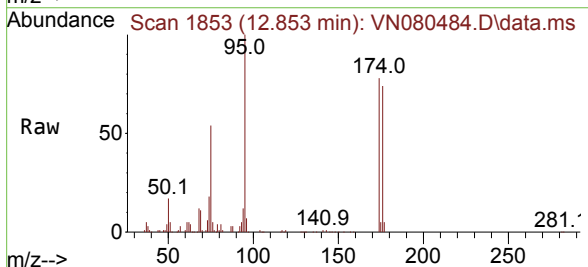
Acq: 14 Dec 2023 15:52

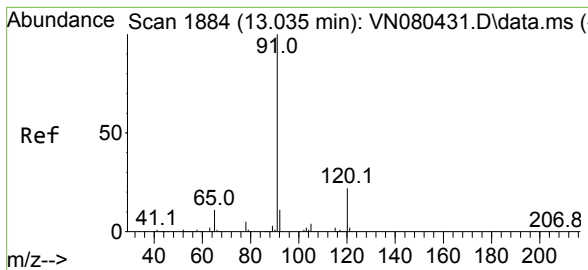
Tgt Ion: 75 Resp: 110151

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#

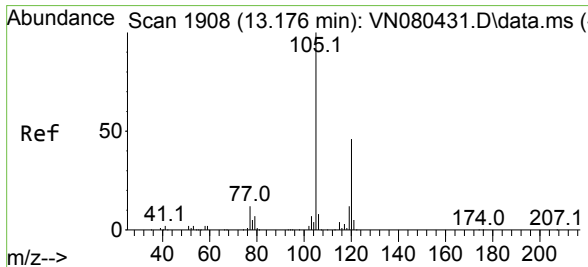
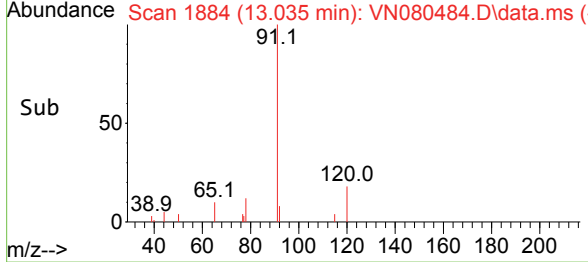
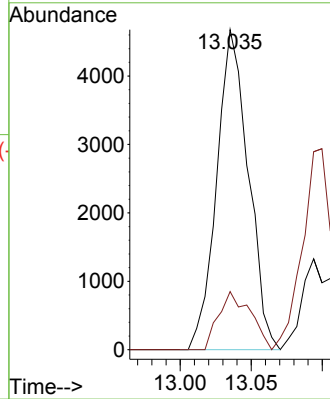
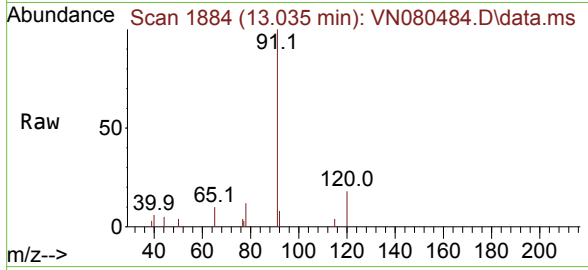




#78
 n-propylbenzene
 Concen: 0.398 ug/l
 RT: 13.035 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN080484.D
 Acq: 14 Dec 2023 15:52

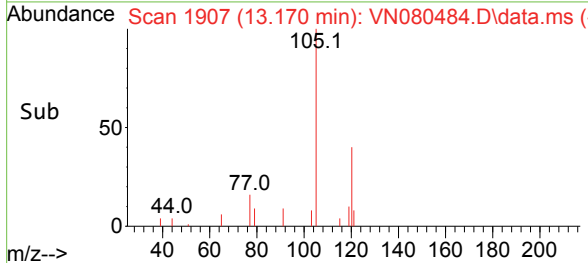
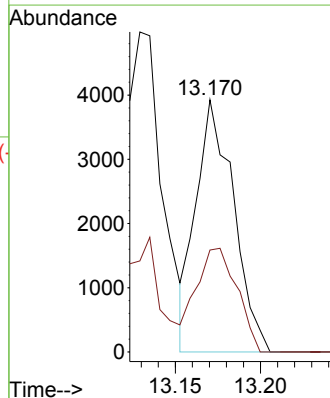
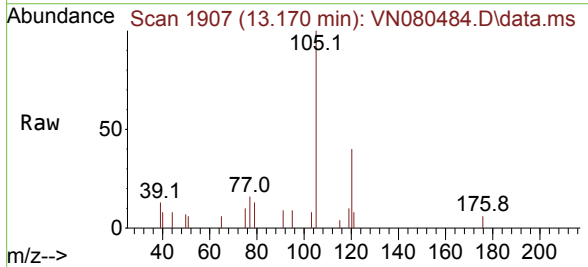
Instrument :
 MSVOA_N
 ClientSampleId :

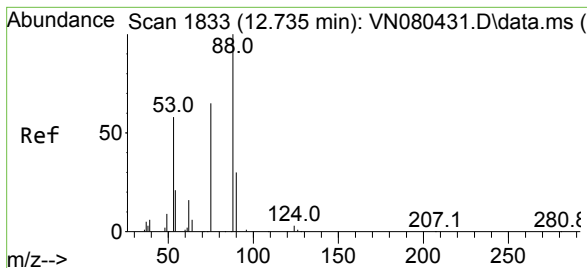
Tgt Ion: 91 Resp: 7252
 Ion Ratio Lower Upper
 91 100
 120 18.3 11.5 34.4



#80
 1,3,5-Trimethylbenzene
 Concen: 0.422 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VN080484.D
 Acq: 14 Dec 2023 15:52

Tgt Ion: 105 Resp: 6005
 Ion Ratio Lower Upper
 105 100
 120 44.8 24.1 72.3

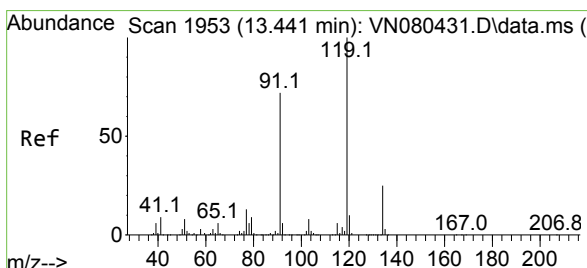
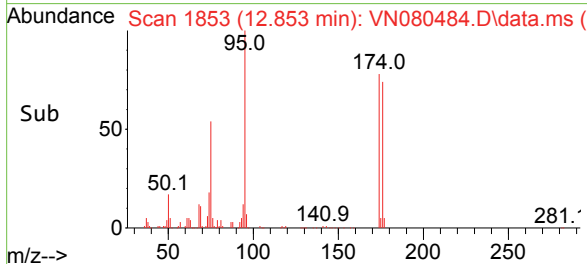
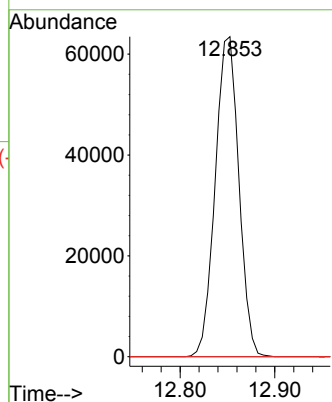
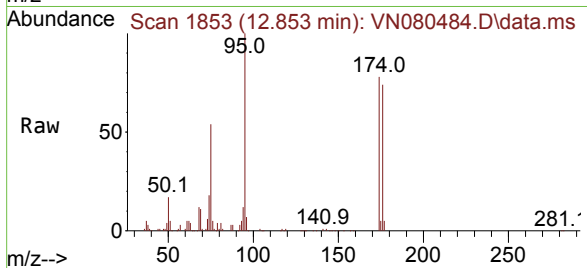




#81
trans-1,4-Dichloro-2-butene
Concen: 70.491 ug/l
RT: 12.853 min Scan# 110151
Delta R.T. 0.118 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

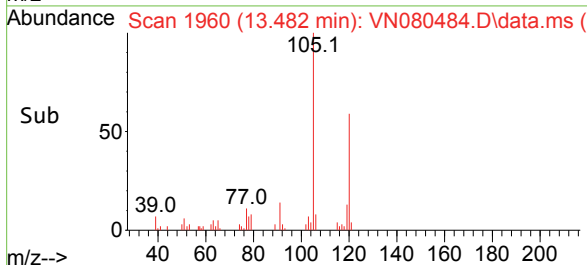
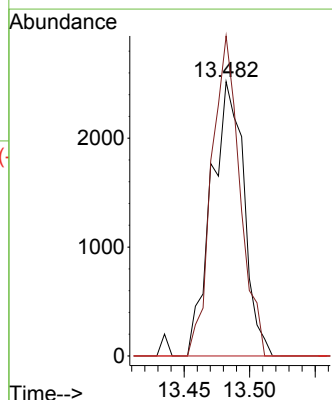
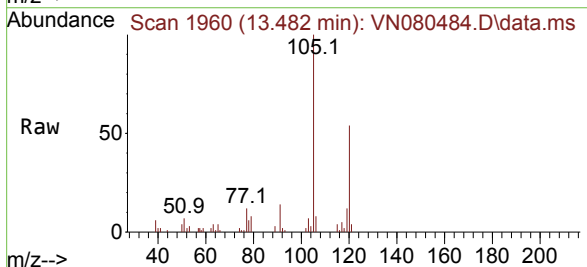
Instrument :
MSVOA_N
ClientSampleId :

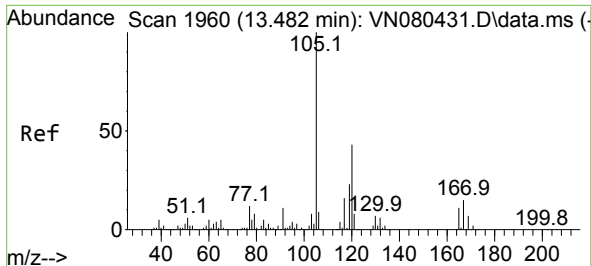
Tgt Ion: 75 Resp: 110151
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#83
tert-Butylbenzene
Concen: 0.373 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.041 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion: 119 Resp: 4352
Ion Ratio Lower Upper
119 100
91 101.3 33.9 101.7
134 0.0 13.2 39.6#

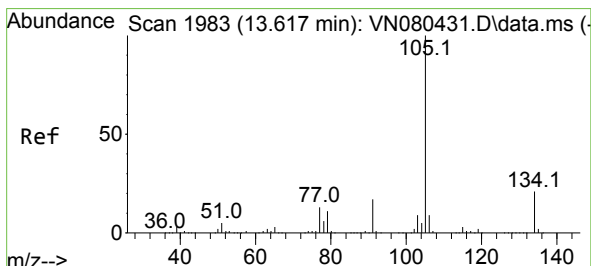
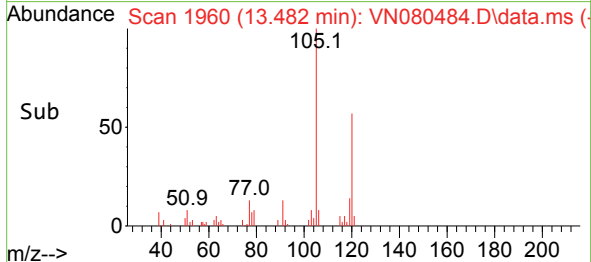
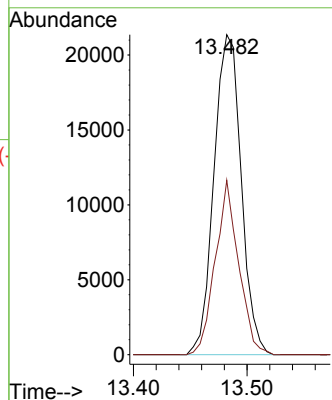
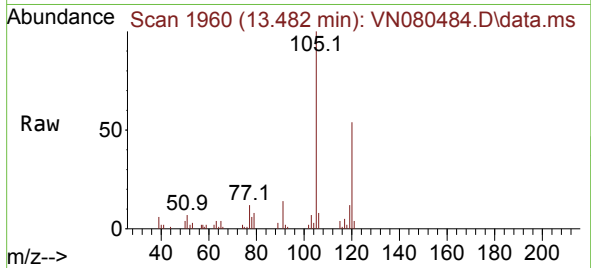




#84
1,2,4-Trimethylbenzene
Concen: 2.513 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

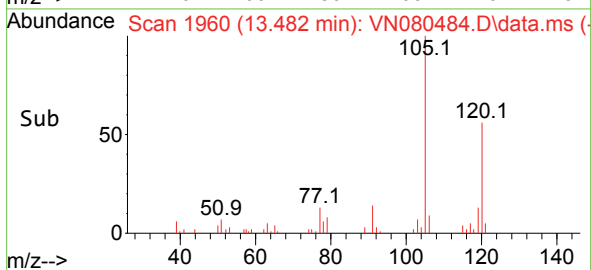
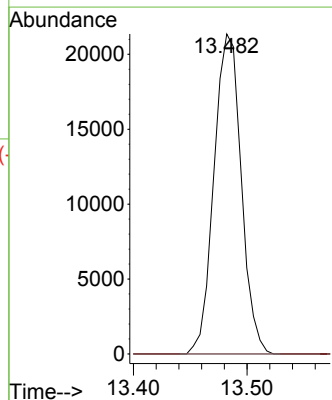
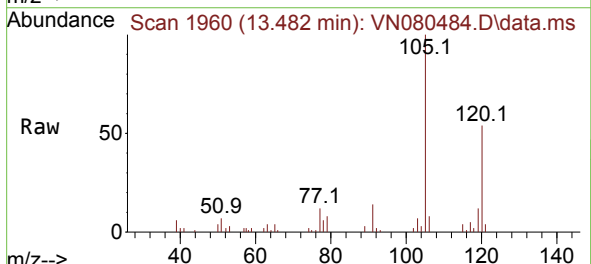
Instrument :
MSVOA_N
ClientSampleId :

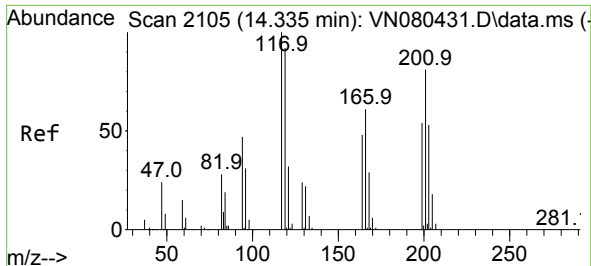
Tgt Ion:105 Resp: 35565
Ion Ratio Lower Upper
105 100
120 46.9 22.0 66.0



#85
sec-Butylbenzene
Concen: 2.386 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.135 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

Tgt Ion:105 Resp: 35565
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.3#

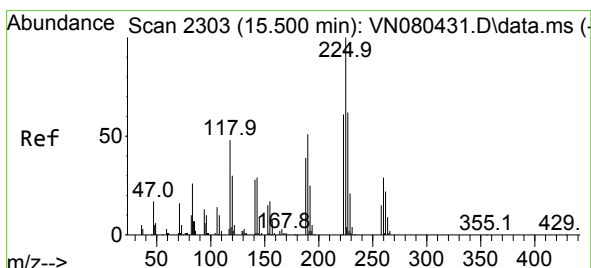
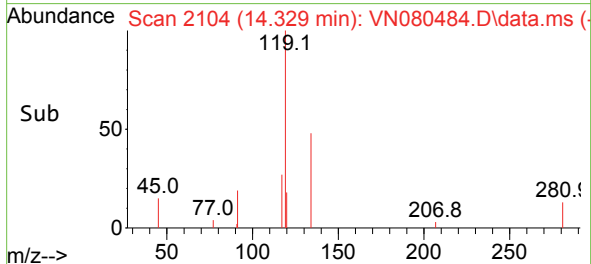
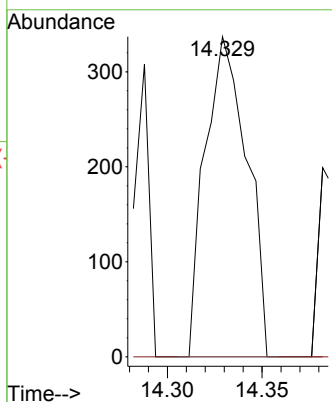
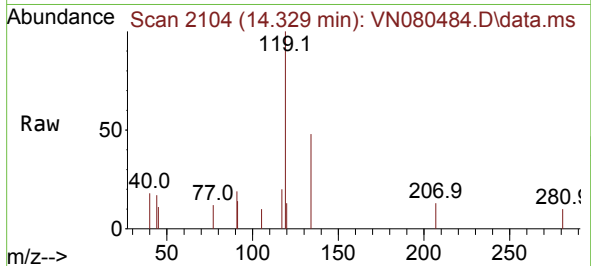




#90
Hexachloroethane
Concen: 0.242 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

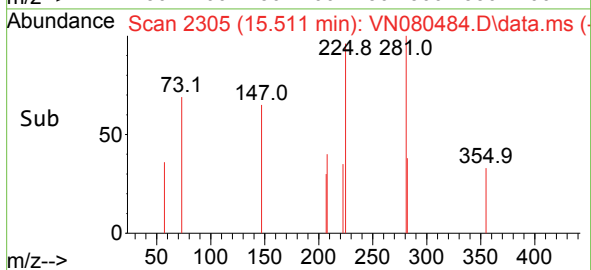
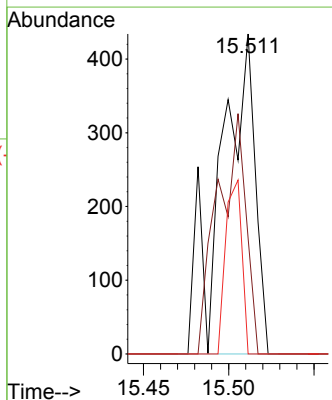
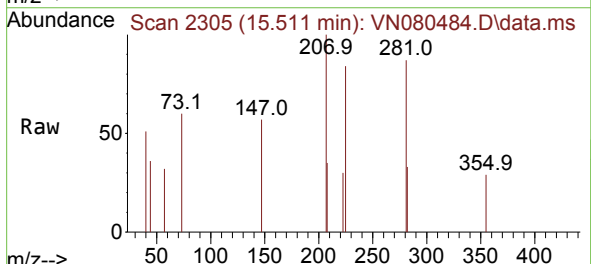
Instrument :
MSVOA_N
ClientSampleId :

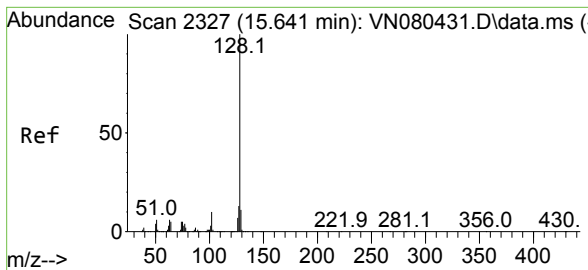
Tgt Ion:117 Resp: 518
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#94
Hexachlorobutadiene
Concen: 0.286 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.012 min
Lab File: VN080484.D
Acq: 14 Dec 2023 15:52

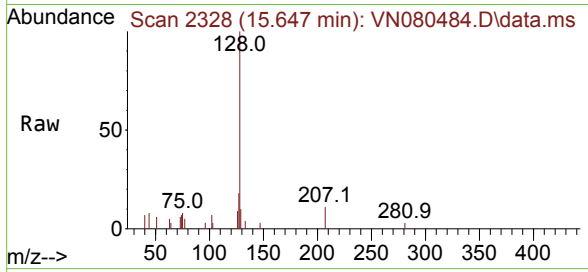
Tgt Ion:225 Resp: 615
Ion Ratio Lower Upper
225 100
223 60.7 31.3 93.8
227 25.4 31.9 95.9#





#95
 Naphthalene
 Concen: 1.010 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN080484.D
 Acq: 14 Dec 2023 15:52

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	11580
Ion Ratio	Lower	Upper	
128	100		
127	13.9	10.0	15.0
129	10.8	8.7	13.1

