

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120623\
 Data File : VN080384.D
 Acq On : 06 Dec 2023 14:24
 Operator : JC\MD
 Sample : 05612-07DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 00:59:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

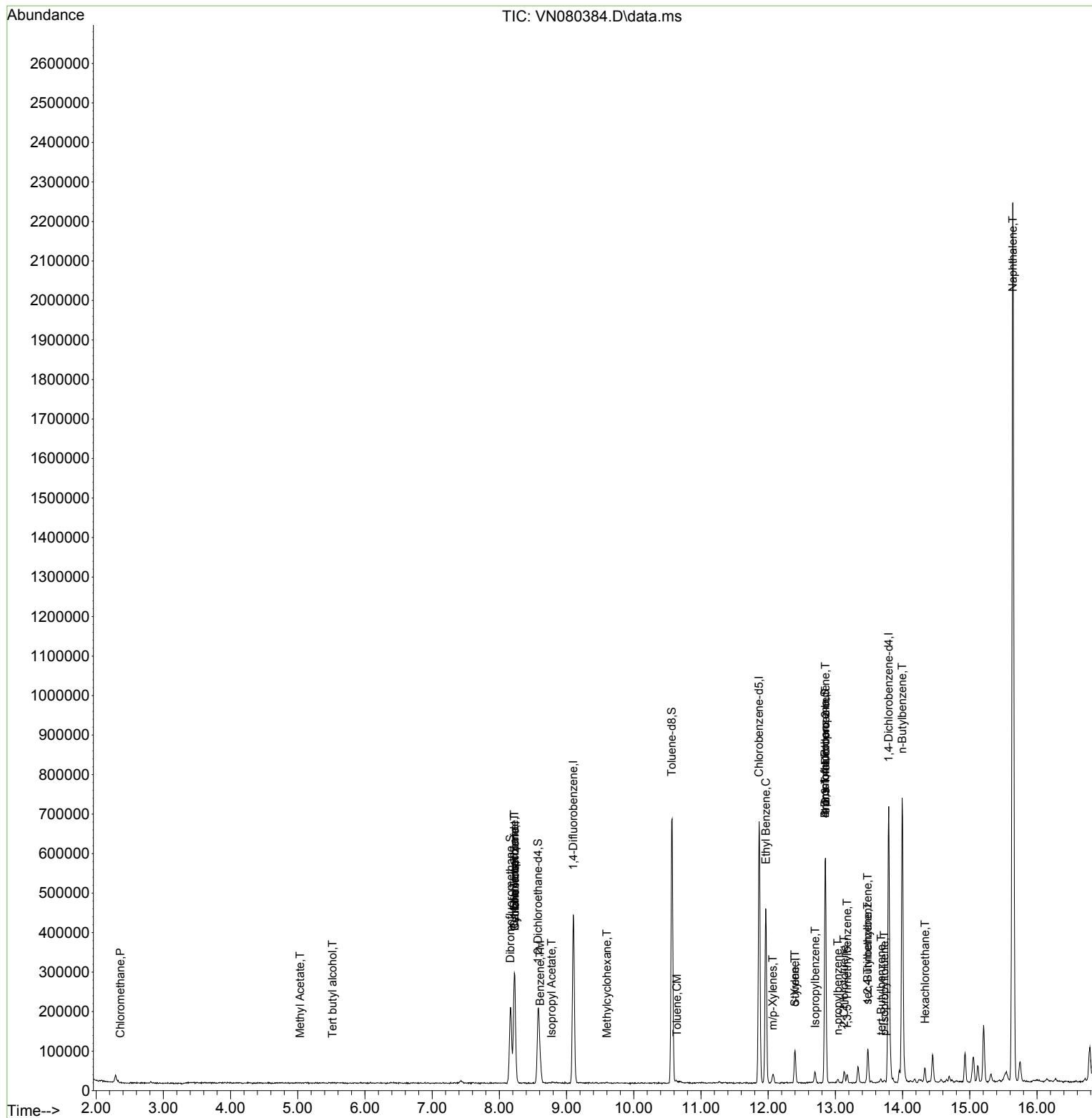
Internal Standards						
1) Pentafluorobenzene	8.230	168	198738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	358386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	382330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	183585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	165340	50.386	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.780%			
35) Dibromofluoromethane	8.165	113	135658	51.300	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.600%			
50) Toluene-d8	10.565	98	473641	49.686	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.380%			
62) 4-Bromofluorobenzene	12.847	95	202795	56.322	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.640%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	539	0.242	ug/l	100
6) Chloroethane	3.118	64	421	Below Cal	#	43
11) Tert butyl alcohol	5.518	59	250	0.693	ug/l #	72
18) Methyl Acetate	5.036	43	1128	0.319	ug/l #	42
31) Cyclohexane	8.230	56	5221	1.463	ug/l #	40
36) 1,1-Dichloropropene	8.224	75	15290	3.994	ug/l #	42
38) Carbon Tetrachloride	8.224	117	23020	4.738	ug/l #	16
39) Methylcyclohexane	9.600	83	910	0.247	ug/l	95
40) Benzene	8.606	78	50966	4.684	ug/l	95
43) Isopropyl Acetate	8.777	43	1070	0.207	ug/l #	49
52) Toluene	10.641	92	2141	0.314	ug/l	80
67) Ethyl Benzene	11.965	91	323782	21.003	ug/l	99
68) m/p-Xylenes	12.070	106	7345	1.307	ug/l	85
69) o-Xylene	12.400	106	22719	4.289	ug/l	87
70) Styrene	12.400	104	2017	0.256	ug/l #	1
71) Bromoform	12.847	173	562	0.225	ug/l #	1
73) Isopropylbenzene	12.700	105	17992	1.261	ug/l	95
76) 1,2,3-Trichloropropane	12.853	75	111085	24.696	ug/l #	1
78) n-propylbenzene	13.035	91	8224	0.516	ug/l	99
79) 2-Chlorotoluene	13.129	91	3013	0.291	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.176	105	10927	0.880	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.853	75	111085	83.437	ug/l #	15
83) tert-Butylbenzene	13.682	119	3275	0.329	ug/l	72
84) 1,2,4-Trimethylbenzene	13.482	105	50781	4.153	ug/l	98
85) sec-Butylbenzene	13.482	105	50781	4.031	ug/l #	57
86) p-Isopropyltoluene	13.729	119	2350	0.209	ug/l #	71
89) n-Butylbenzene	13.994	91	75109	7.974	ug/l #	42
90) Hexachloroethane	14.335	117	3304	1.506	ug/l #	21
95) Naphthalene	15.641	128	2075483	198.450	ug/l	99

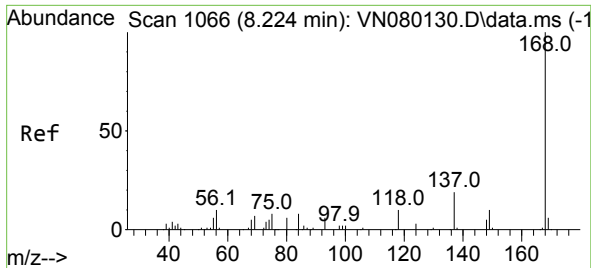
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120623\
Data File : VN080384.D
Acq On : 06 Dec 2023 14:24
Operator : JC\MD
Sample : 05612-07DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 07 00:59:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
Response via : Initial Calibration

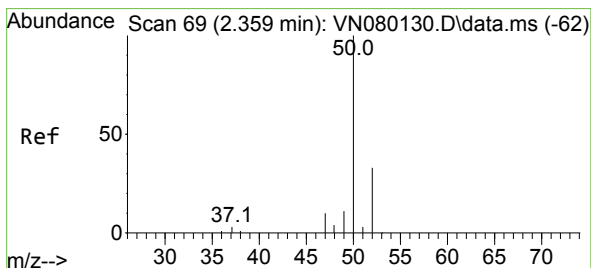
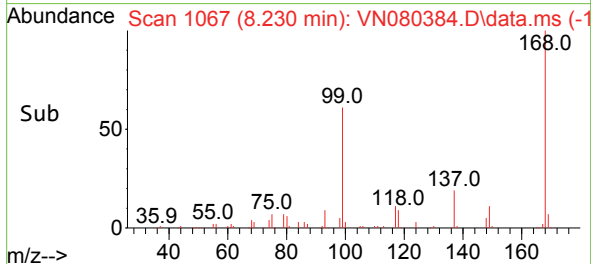
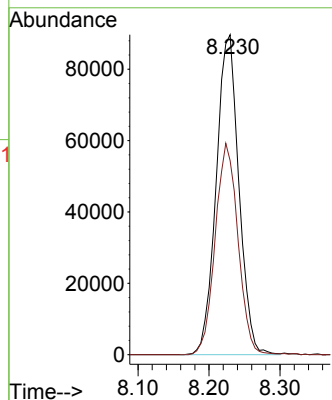
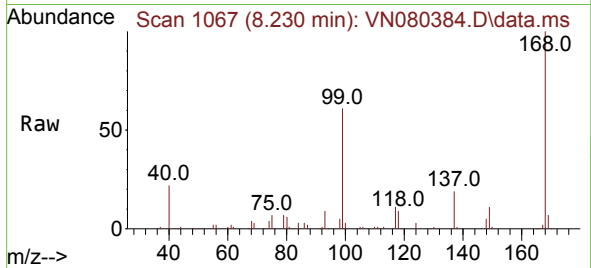




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

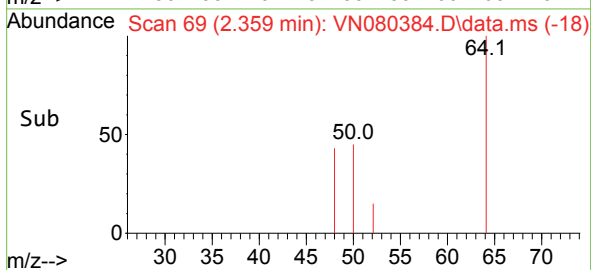
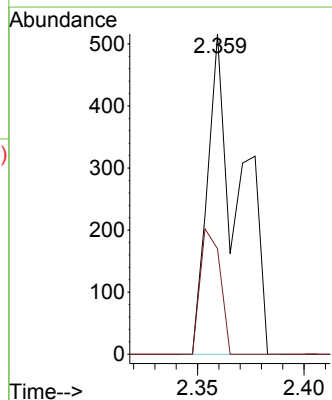
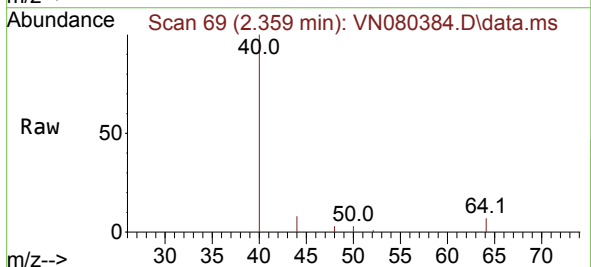
Instrument :
MSVOA_N
ClientSampleId :

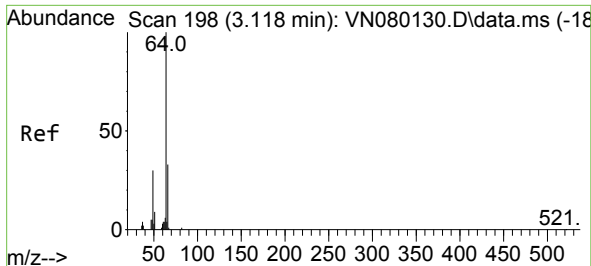
Tgt Ion:168 Resp: 198738
Ion Ratio Lower Upper
168 100
99 60.7 53.0 79.6



#3
Chloromethane
Concen: 0.242 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 50 Resp: 539
Ion Ratio Lower Upper
50 100
52 32.9 26.5 39.7

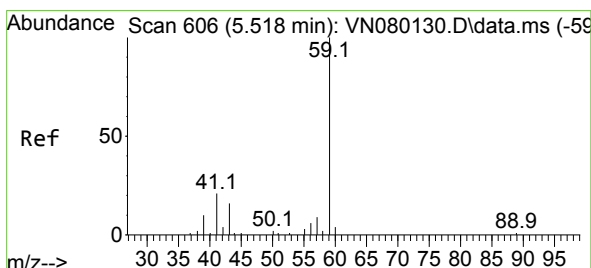
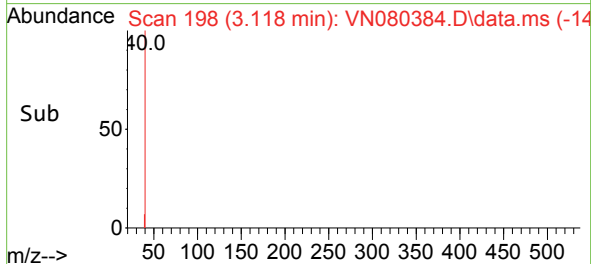
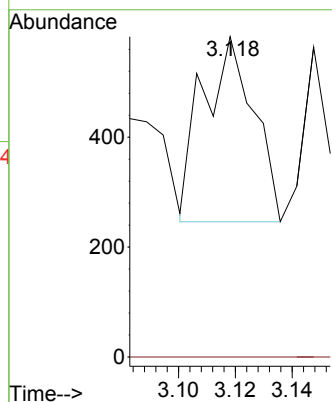
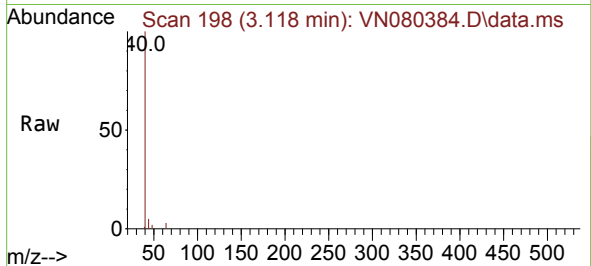




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

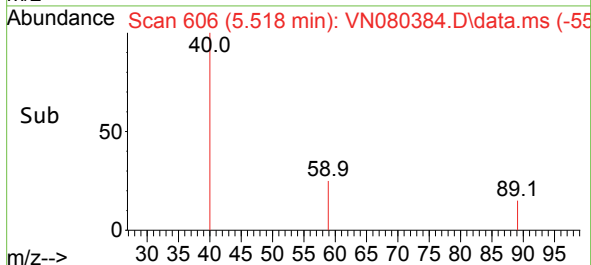
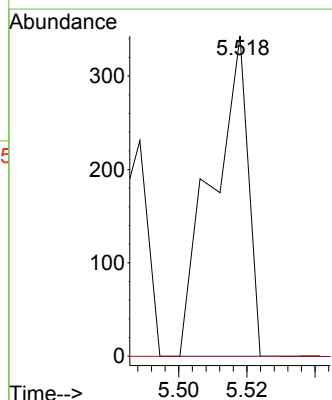
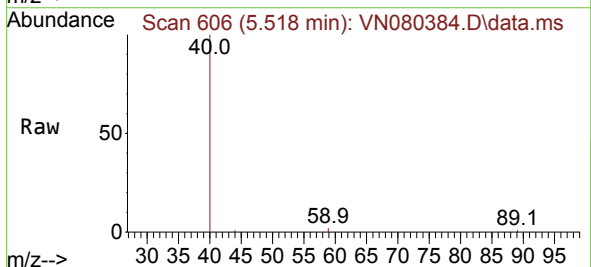
Instrument :
MSVOA_N
ClientSampleId :

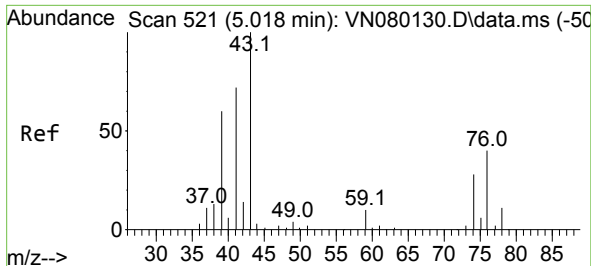
Tgt Ion: 64 Resp: 421
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.693 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

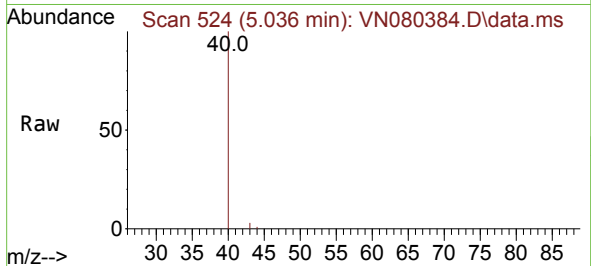
Tgt Ion: 59 Resp: 250
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



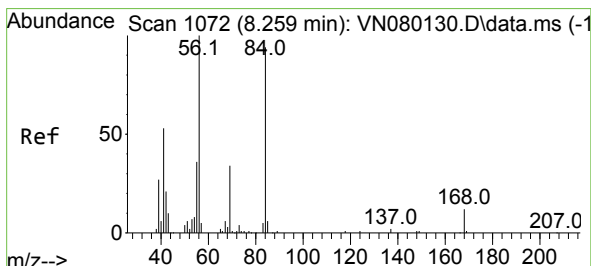
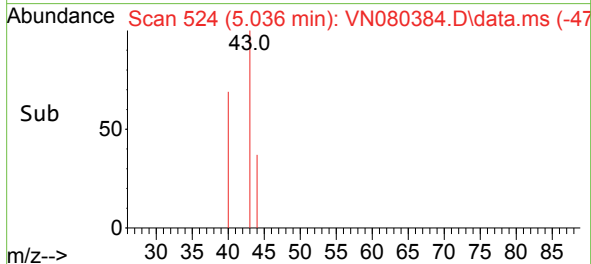
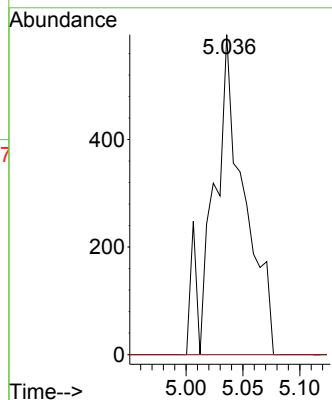


#18
Methyl Acetate
Concen: 0.319 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Instrument :
MSVOA_N
ClientSampleId :

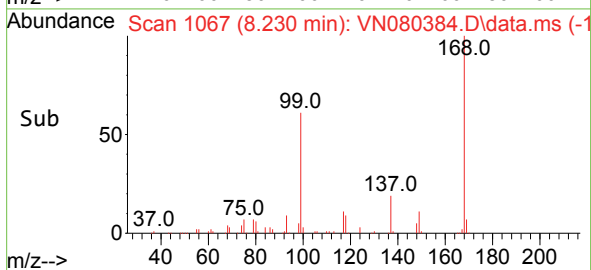
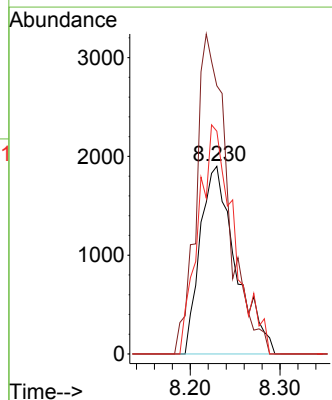
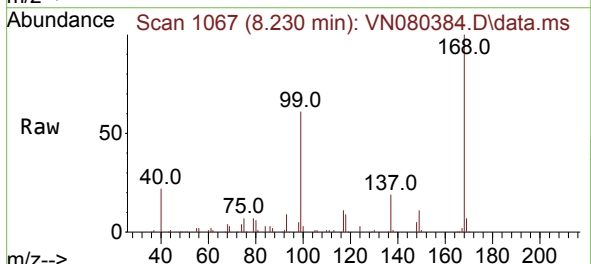


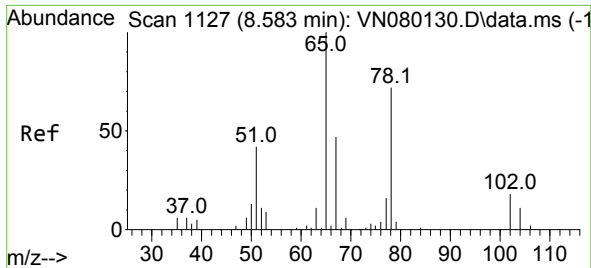
Tgt Ion: 43 Resp: 1128
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#31
Cyclohexane
Concen: 1.463 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 56 Resp: 5221
Ion Ratio Lower Upper
56 100
69 142.8 26.8 40.2#
84 118.6 81.8 122.6

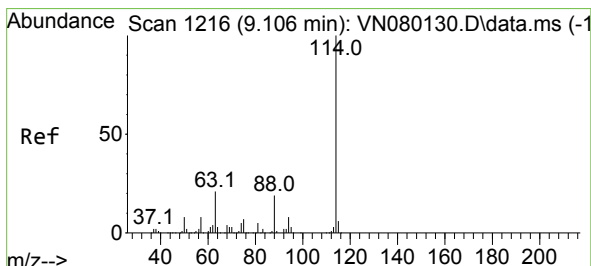
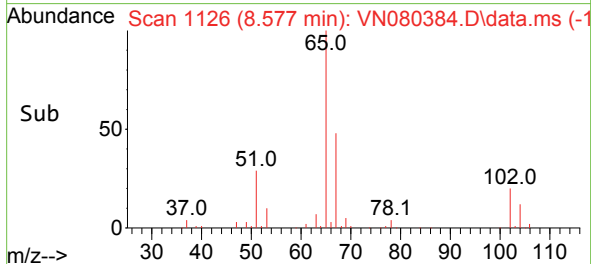
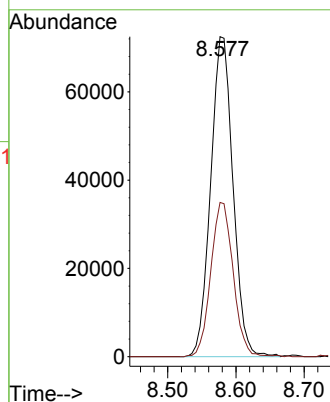
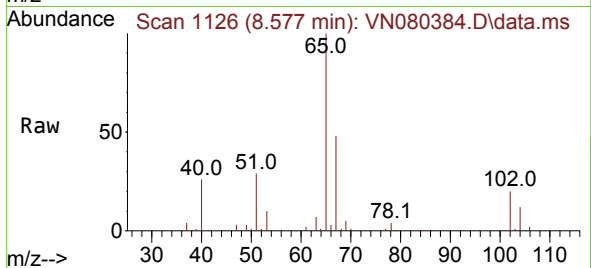




#33
 1,2-Dichloroethane-d4
 Concen: 50.386 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VN080384.D
 Acq: 06 Dec 2023 14:24

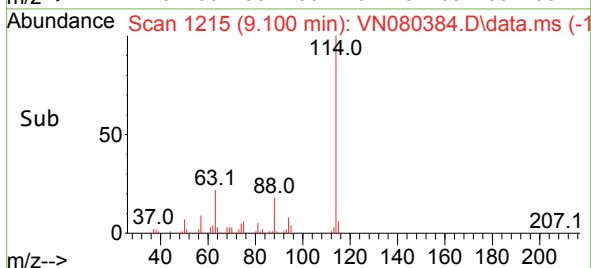
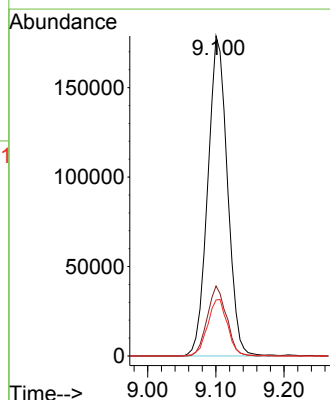
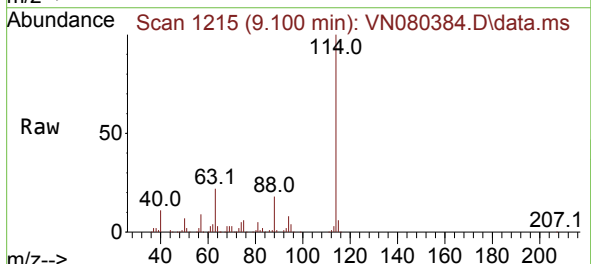
Instrument :
 MSVOA_N
 ClientSampleId :

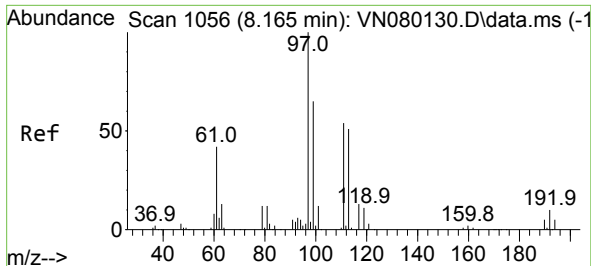
Tgt Ion: 65 Resp: 165340
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.006 min
 Lab File: VN080384.D
 Acq: 06 Dec 2023 14:24

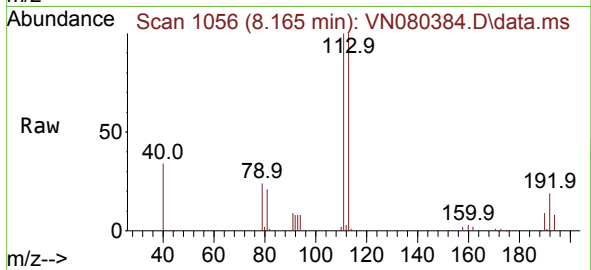
Tgt Ion: 114 Resp: 358386
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 36.4
 88 17.5 0.0 30.6



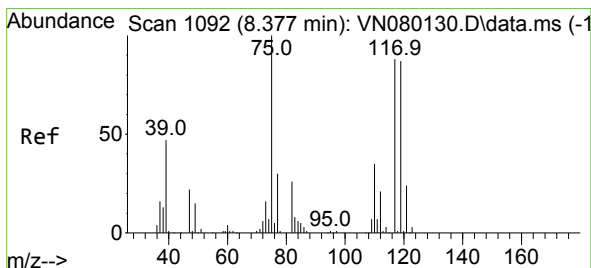
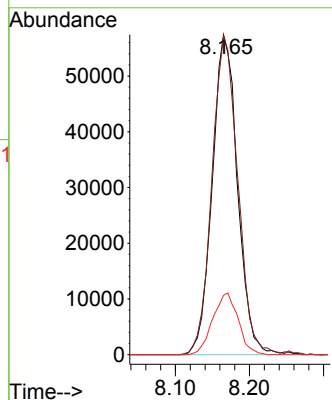
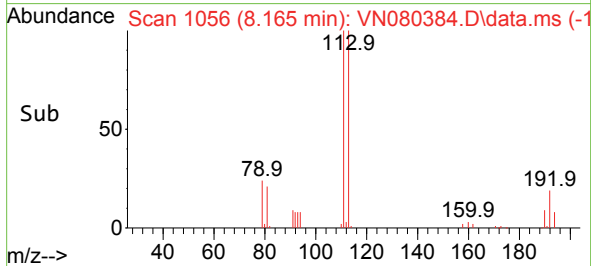


#35
Dibromofluoromethane
Concen: 51.300 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Instrument :
MSVOA_N
ClientSampleId :

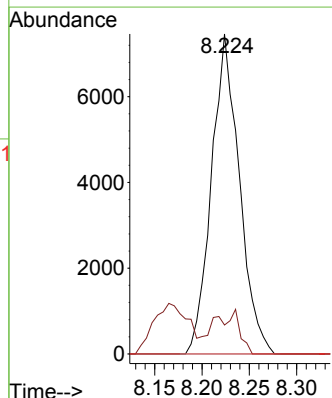
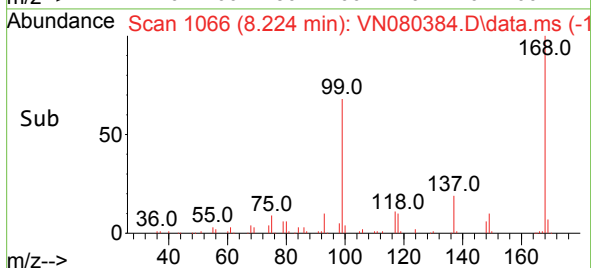
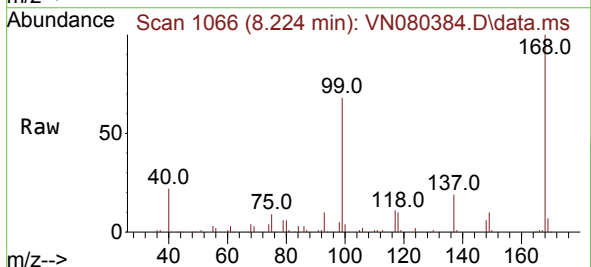


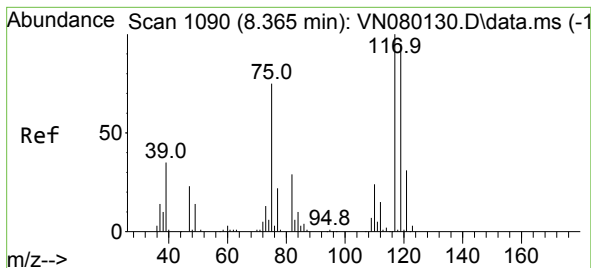
Tgt Ion:113 Resp: 135658
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 19.4 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 3.994 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 75 Resp: 15290
Ion Ratio Lower Upper
75 100
110 2.8 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.738 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

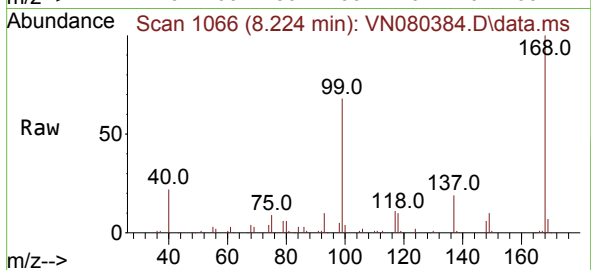
Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :



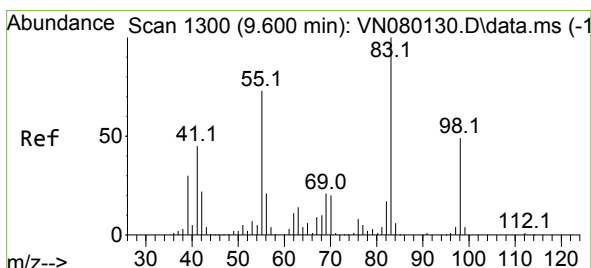
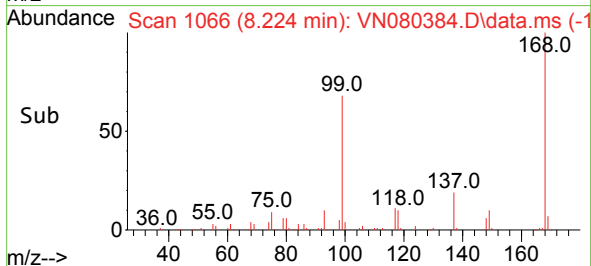
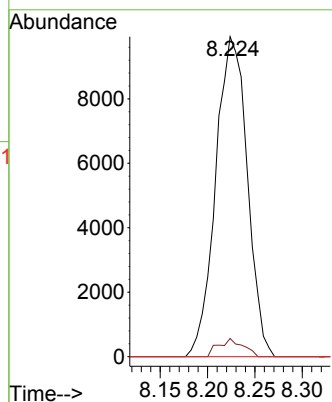
Tgt Ion:117 Resp: 23020

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.247 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

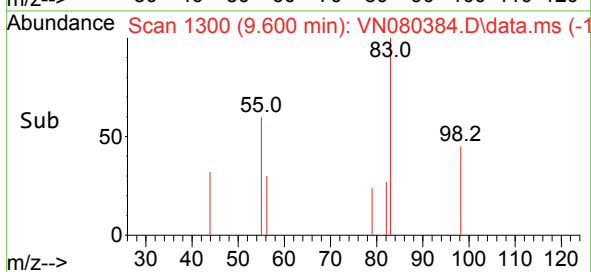
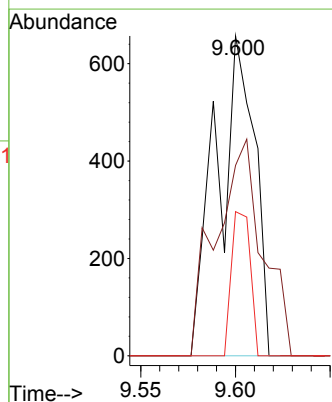
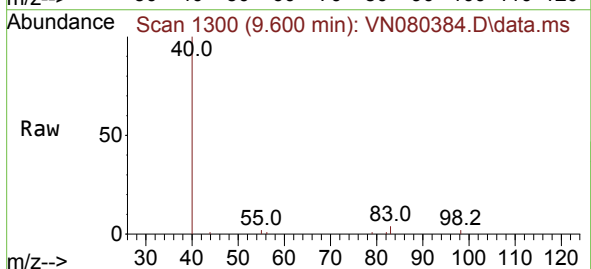
Tgt Ion: 83 Resp: 910

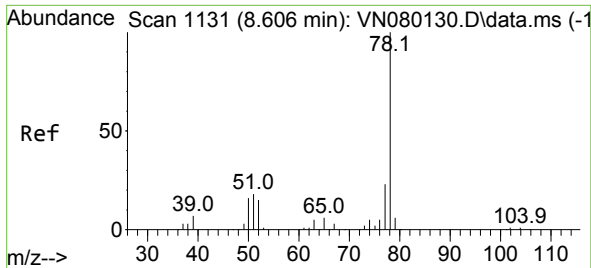
Ion Ratio Lower Upper

83 100

55 59.5 49.1 73.7

98 45.1 40.6 61.0

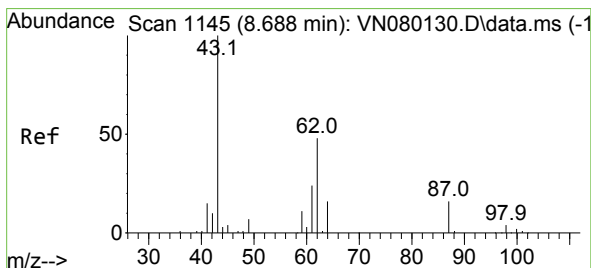
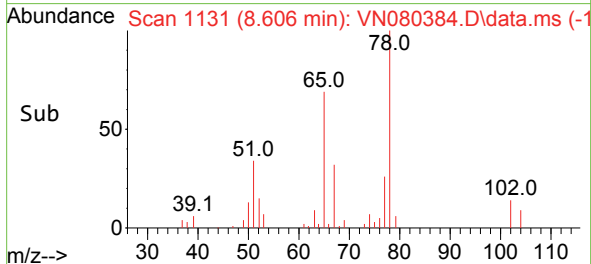
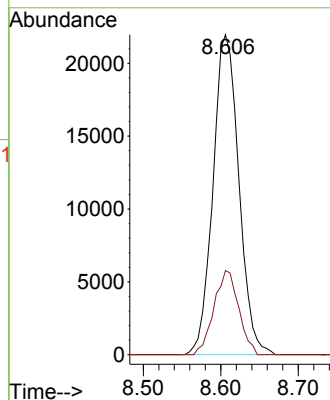
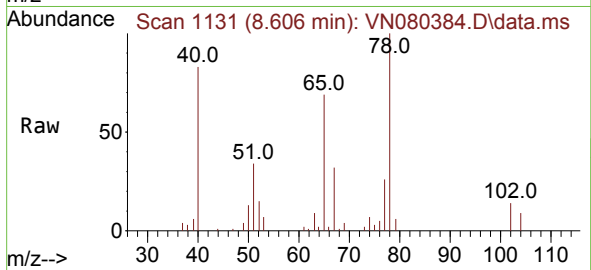




#40
Benzene
Concen: 4.684 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

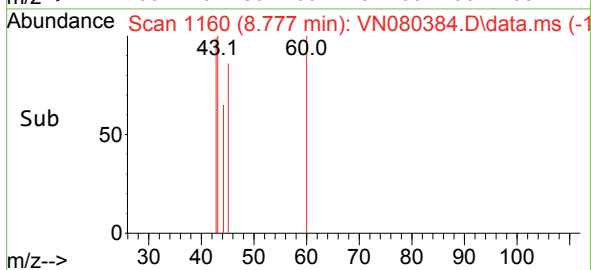
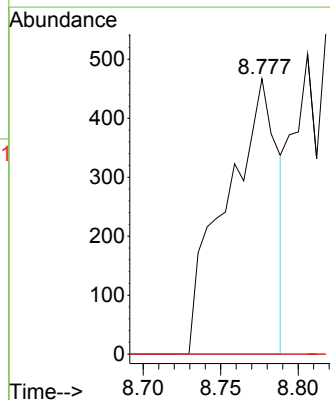
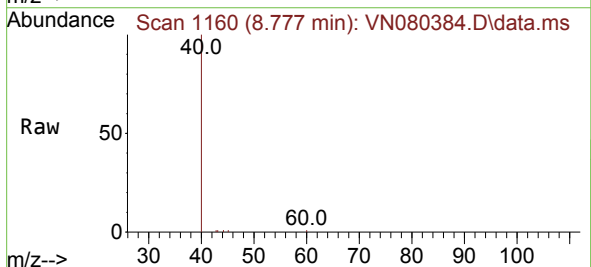
Instrument :
MSVOA_N
ClientSampleId :

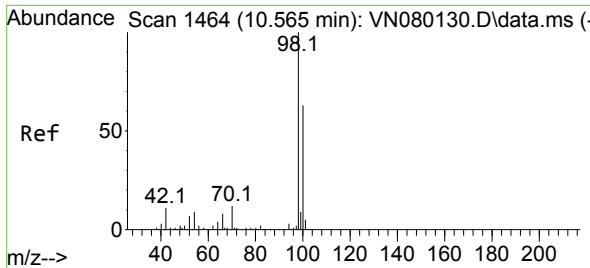
Tgt Ion: 78 Resp: 50966
Ion Ratio Lower Upper
78 100
77 26.3 19.0 28.6



#43
Isopropyl Acetate
Concen: 0.207 ug/l
RT: 8.777 min Scan# 1160
Delta R.T. 0.088 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 43 Resp: 1070
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

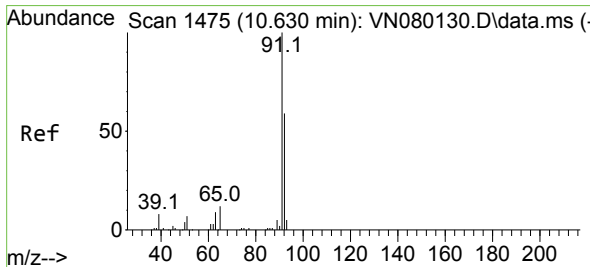
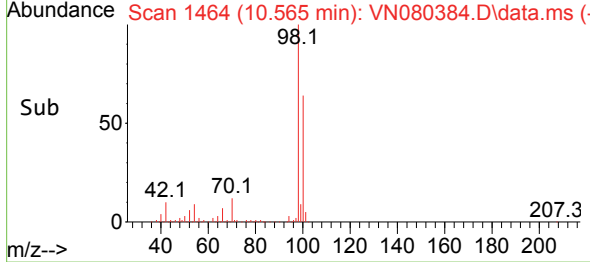
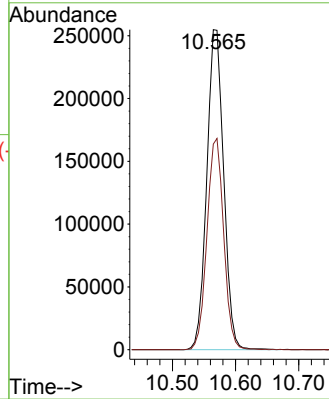
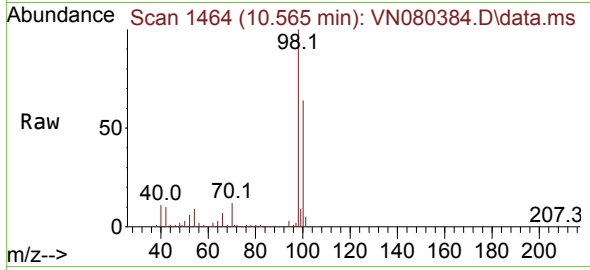




#50
Toluene-d8
Concen: 49.686 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

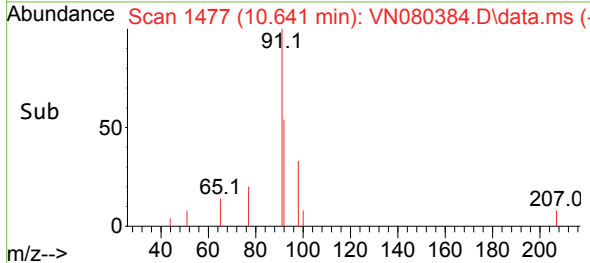
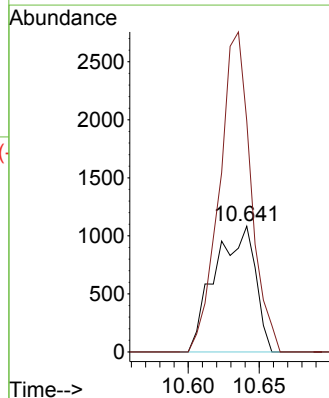
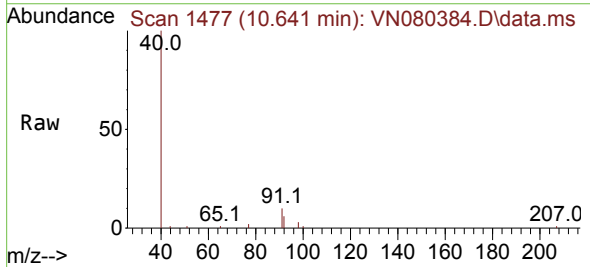
Instrument :
MSVOA_N
ClientSampleId :

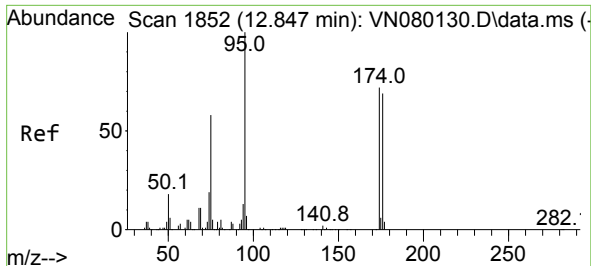
Tgt Ion: 98 Resp: 473641
Ion Ratio Lower Upper
98 100
100 65.4 52.0 78.0



#52
Toluene
Concen: 0.314 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.012 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 92 Resp: 2141
Ion Ratio Lower Upper
92 100
91 199.2 137.4 206.0

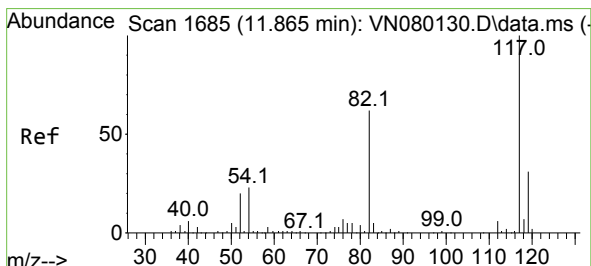
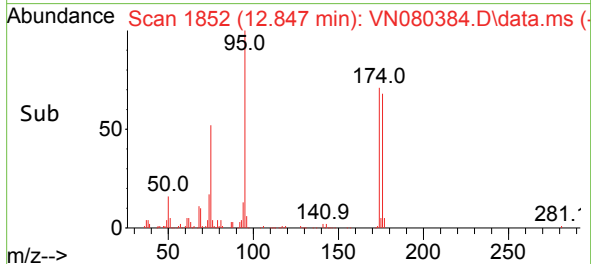
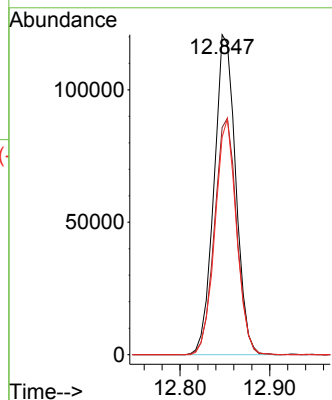
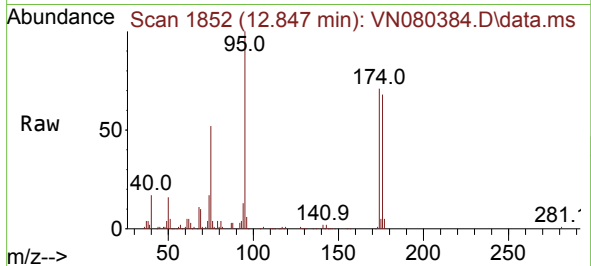




#62
4-Bromofluorobenzene
Concen: 56.322 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

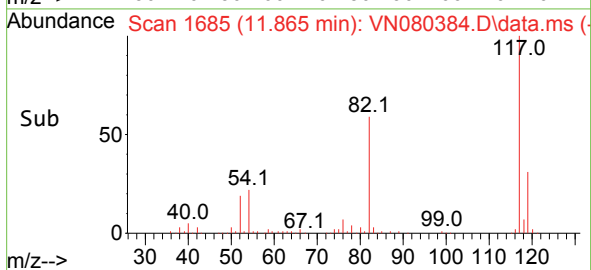
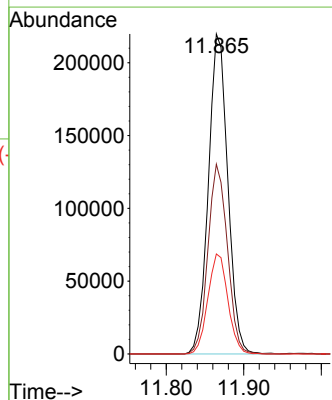
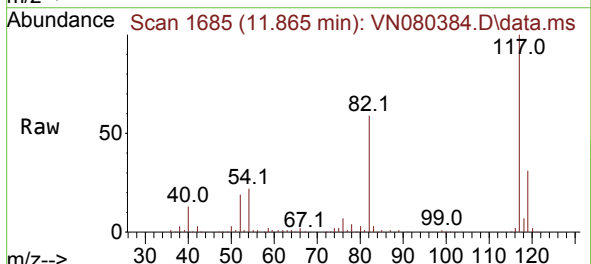
Instrument :
MSVOA_N
ClientSampleId :

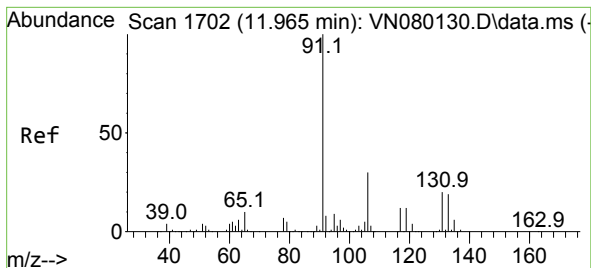
Tgt Ion: 95 Resp: 202795
Ion Ratio Lower Upper
95 100
174 75.7 0.0 143.8
176 72.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion: 117 Resp: 382330
Ion Ratio Lower Upper
117 100
82 59.3 44.0 66.0
119 31.2 25.6 38.4





#67

Ethyl Benzene

Concen: 21.003 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

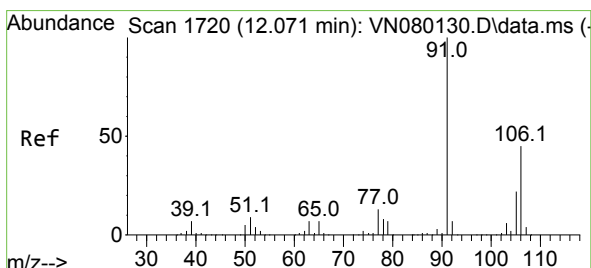
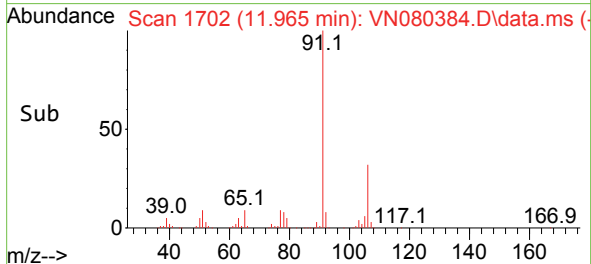
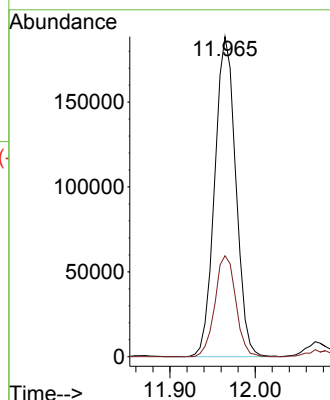
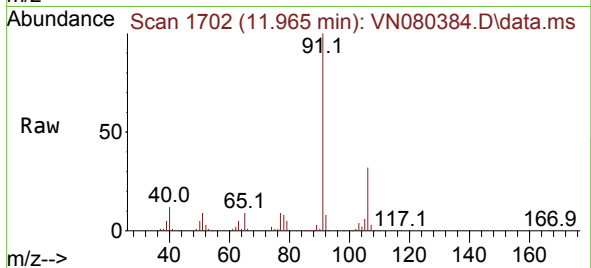
ClientSampleId :

Tgt Ion: 91 Resp: 323782

Ion Ratio Lower Upper

91 100

106 31.5 25.6 38.4



#68

m/p-Xylenes

Concen: 1.307 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN080384.D

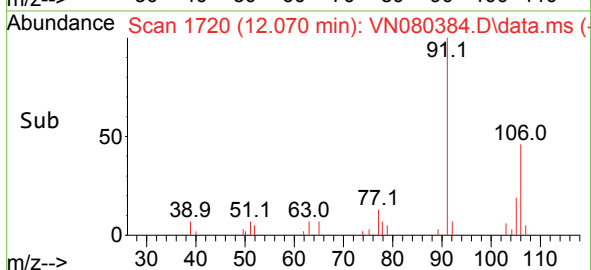
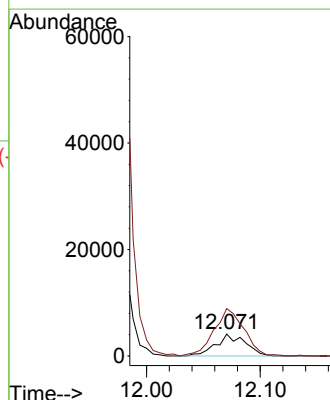
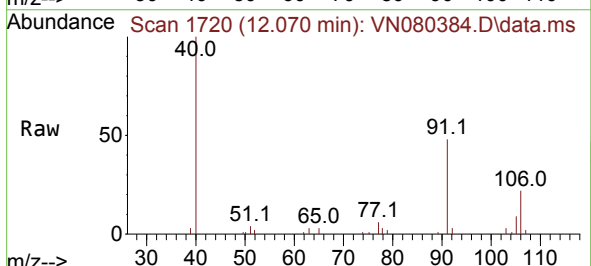
Acq: 06 Dec 2023 14:24

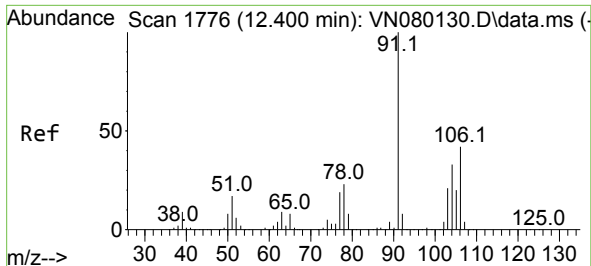
Tgt Ion:106 Resp: 7345

Ion Ratio Lower Upper

106 100

91 222.5 159.6 239.4

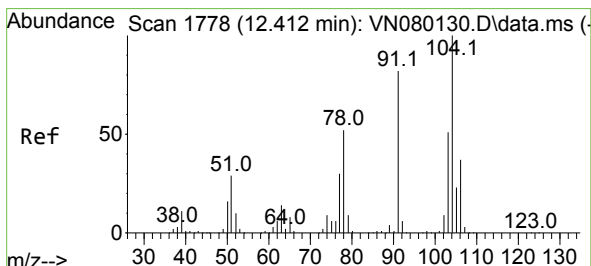
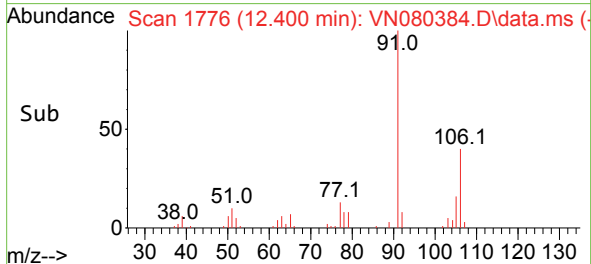
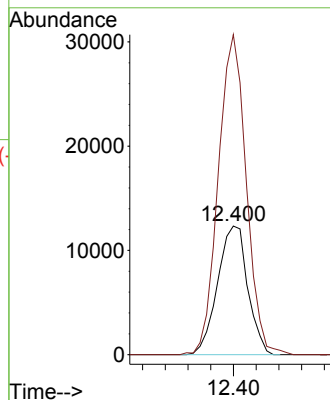
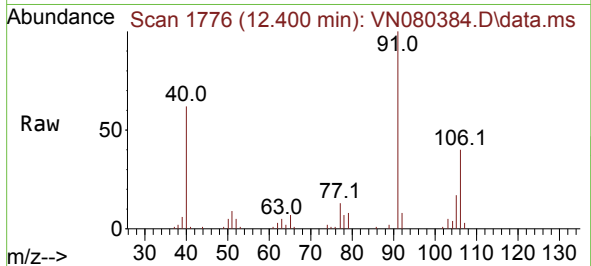




#69
o-Xylene
Concen: 4.289 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

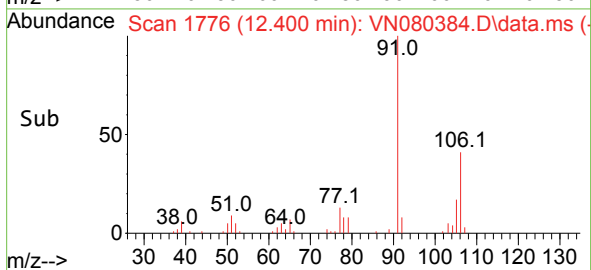
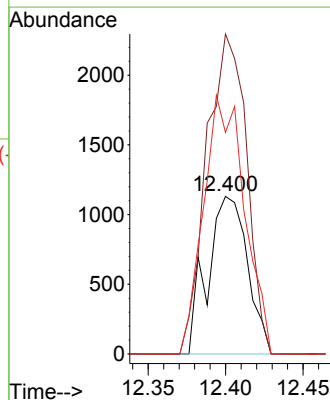
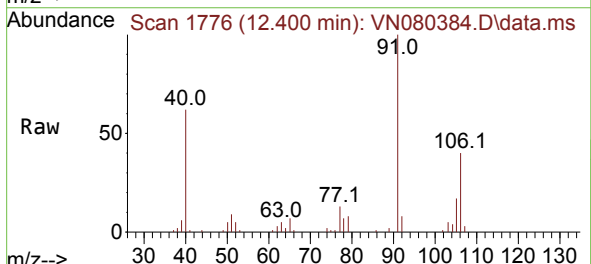
Instrument :
MSVOA_N
ClientSampleId :

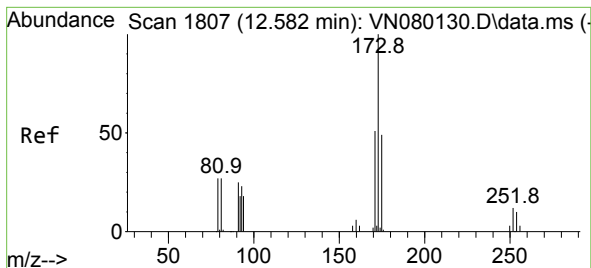
Tgt Ion:106 Resp: 22719
Ion Ratio Lower Upper
106 100
91 231.1 105.2 315.5



#70
Styrene
Concen: 0.256 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.012 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion:104 Resp: 2017
Ion Ratio Lower Upper
104 100
78 204.3 39.5 59.3#
103 168.8 43.2 64.8#





#71

Bromoform

Concen: 0.225 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

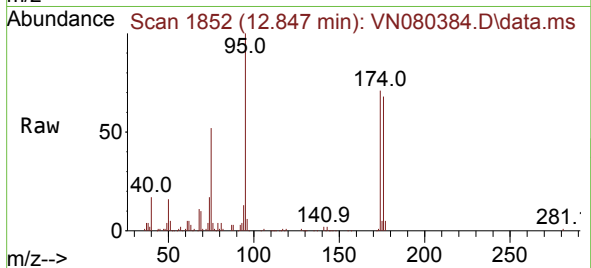
Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

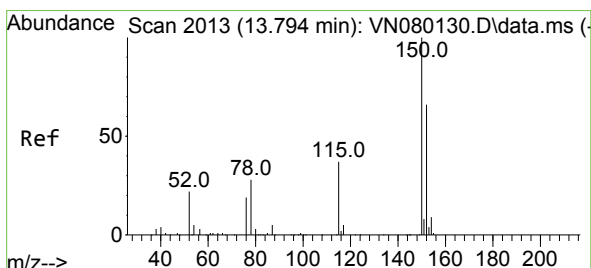
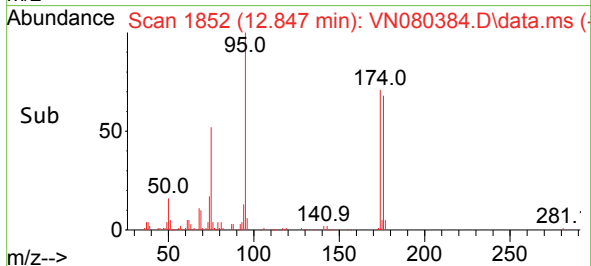
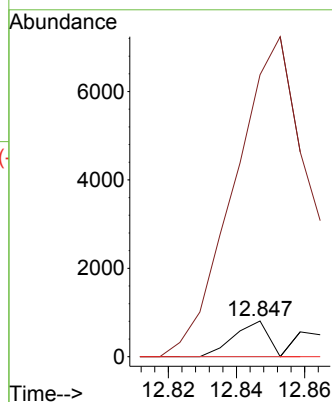
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	562
Ion Ratio	Lower	Upper	
173	100		
175	1678.8	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

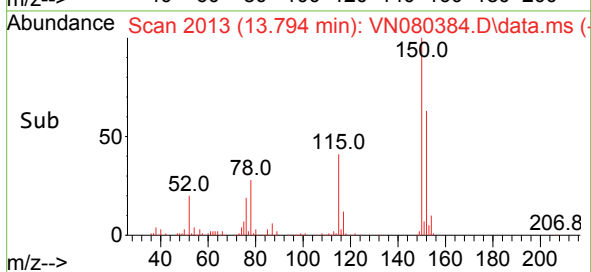
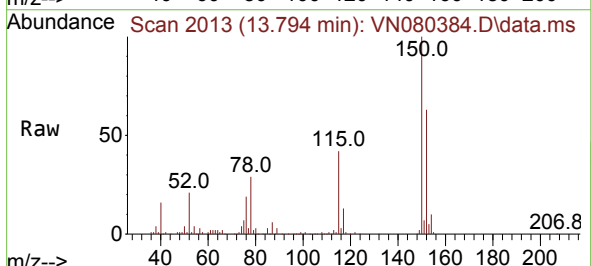
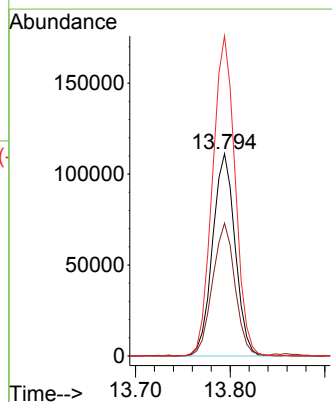
RT: 13.794 min Scan# 2013

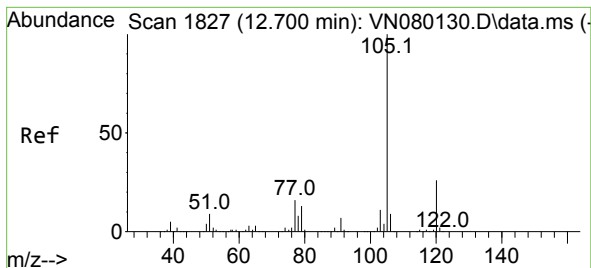
Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Tgt Ion:	152	Resp:	183585
Ion Ratio	Lower	Upper	
152	100		
115	65.7	32.3	96.8
150	159.1	0.0	355.8





#73

Isopropylbenzene

Concen: 1.261 ug/l

RT: 12.700 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

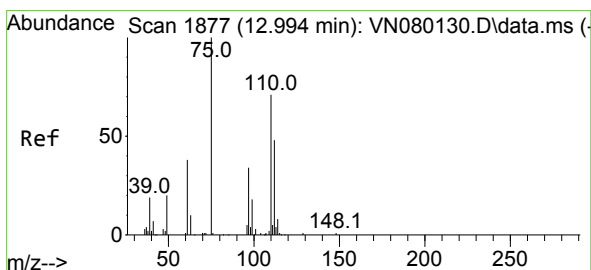
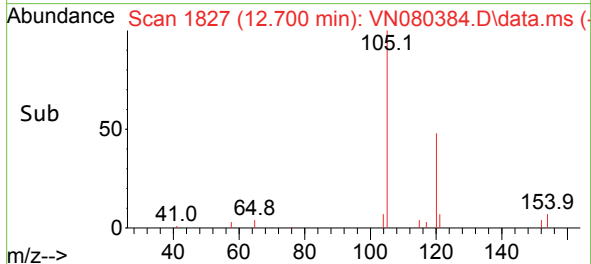
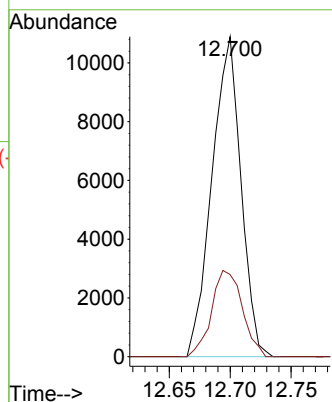
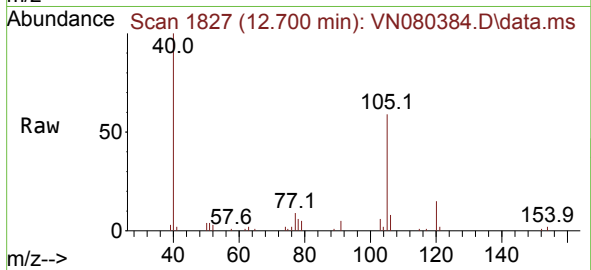
ClientSampleId :

Tgt Ion:105 Resp: 17992

Ion Ratio Lower Upper

105 100

120 28.6 13.1 39.1



#76

1,2,3-Trichloropropane

Concen: 24.696 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080384.D

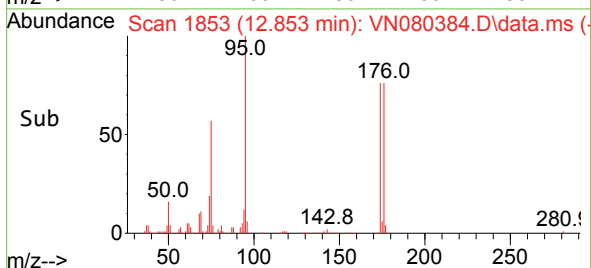
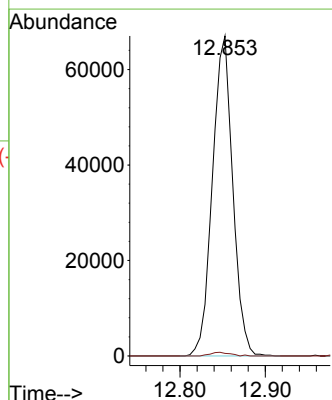
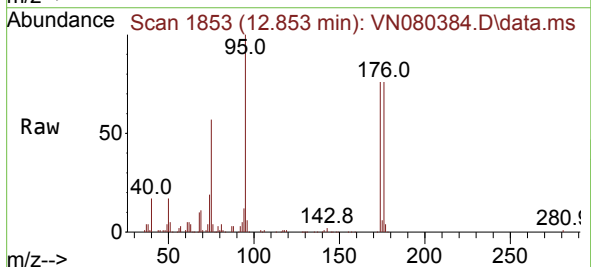
Acq: 06 Dec 2023 14:24

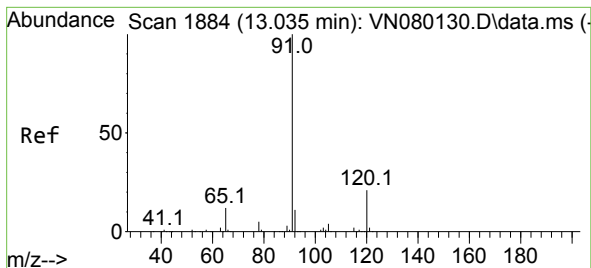
Tgt Ion: 75 Resp: 111085

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#





#78

n-propylbenzene

Concen: 0.516 ug/l

RT: 13.035 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

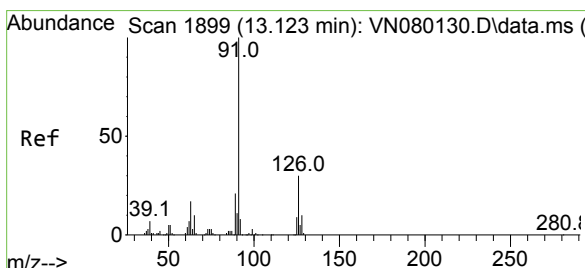
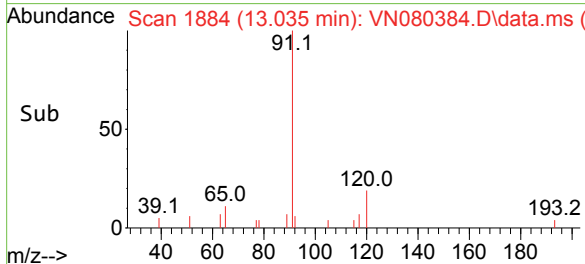
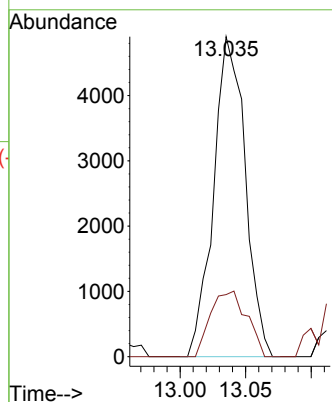
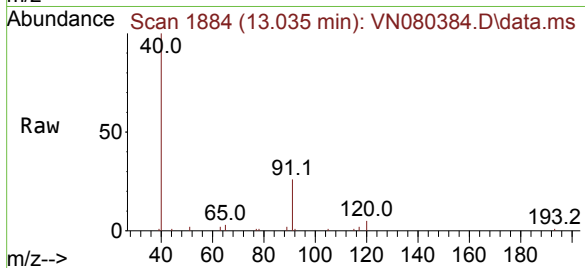
ClientSampleId :

Tgt Ion: 91 Resp: 8224

Ion Ratio Lower Upper

91 100

120 23.5 11.5 34.4



#79

2-Chlorotoluene

Concen: 0.291 ug/l

RT: 13.129 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VN080384.D

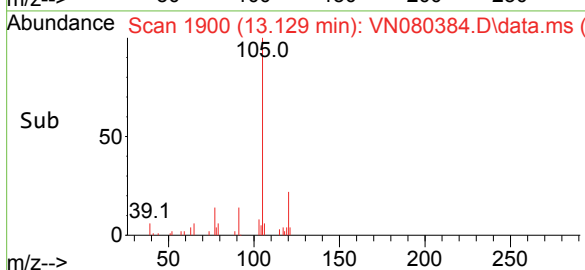
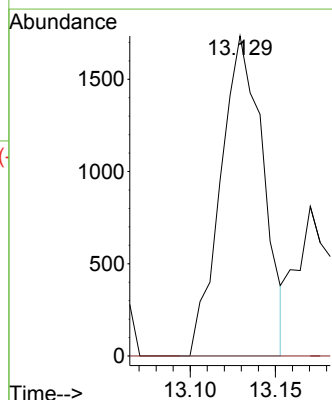
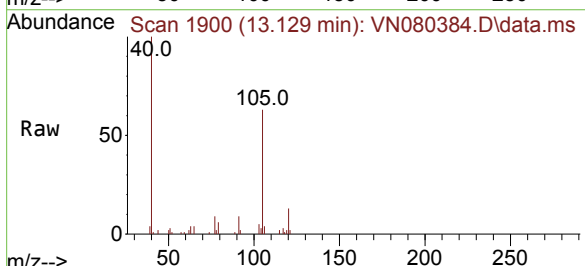
Acq: 06 Dec 2023 14:24

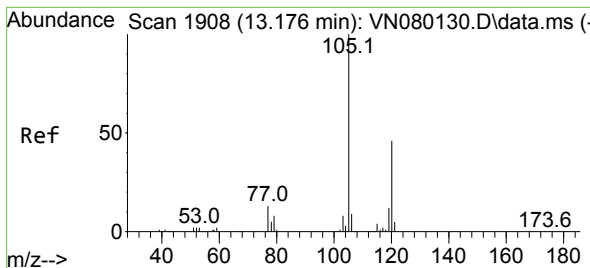
Tgt Ion: 91 Resp: 3013

Ion Ratio Lower Upper

91 100

126 0.0 16.3 48.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.880 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

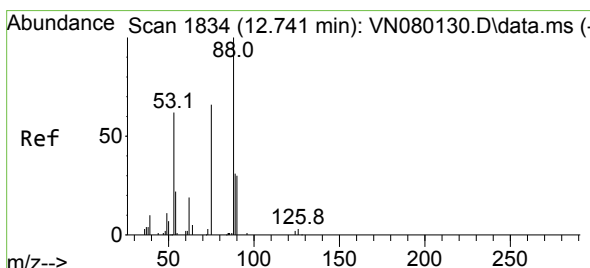
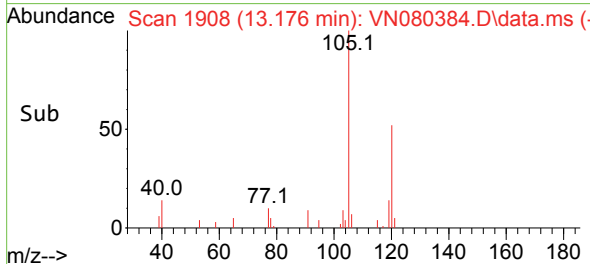
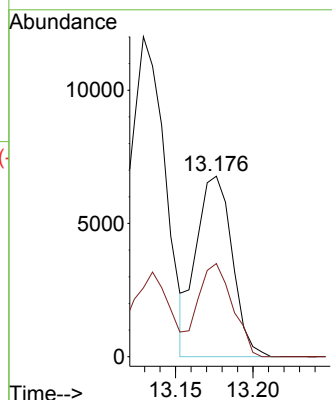
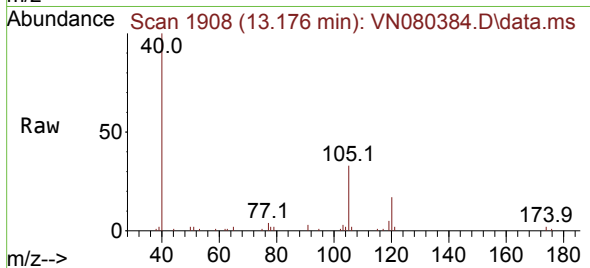
ClientSampleId :

Tgt Ion:105 Resp: 10927

Ion Ratio Lower Upper

105 100

120 50.3 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 83.437 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

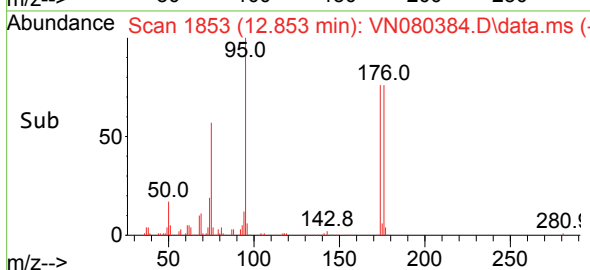
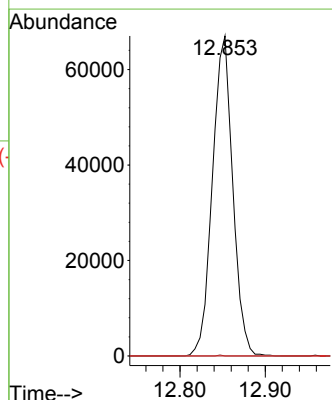
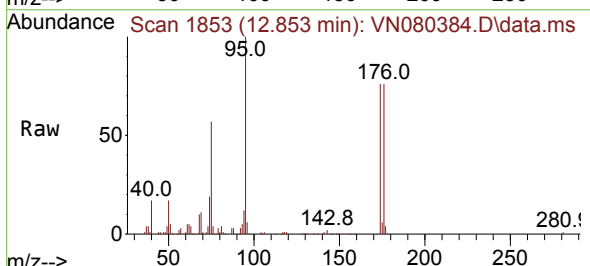
Tgt Ion: 75 Resp: 111085

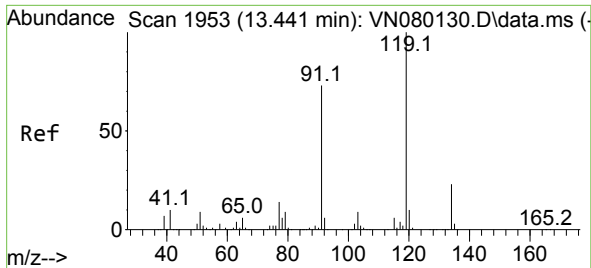
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

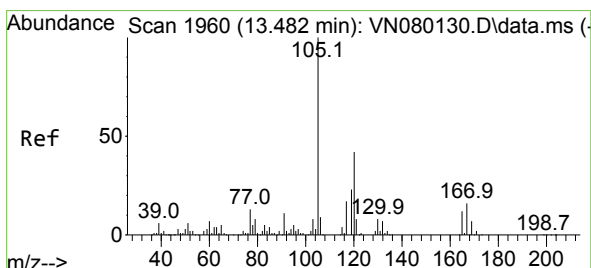
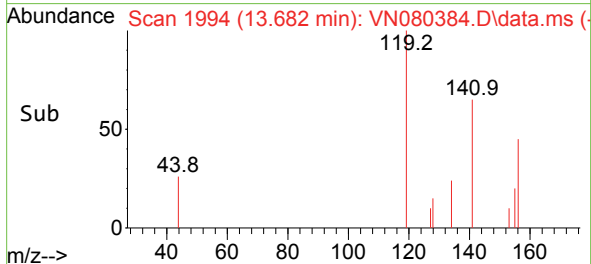
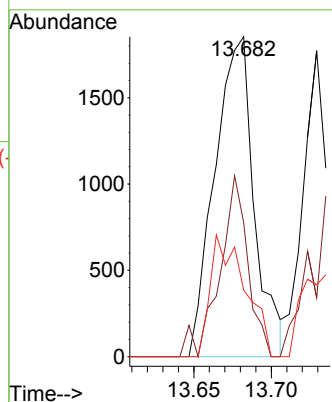
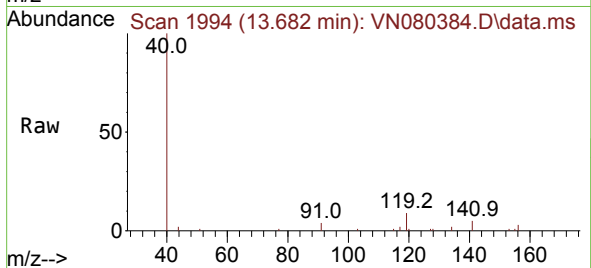




#83
tert-Butylbenzene
Concen: 0.329 ug/l
RT: 13.682 min Scan# 1994
Delta R.T. 0.241 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

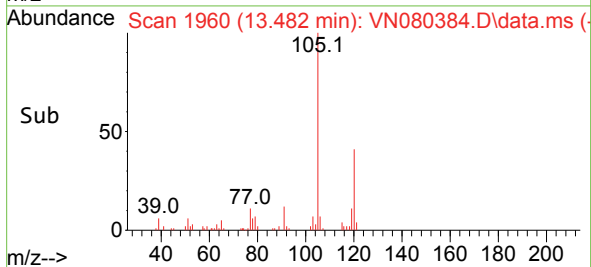
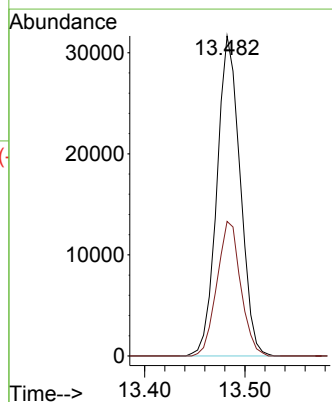
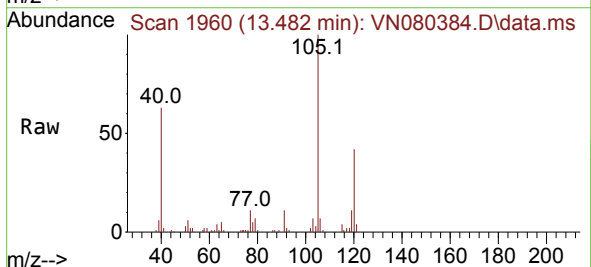
Instrument :
MSVOA_N
ClientSampleId :

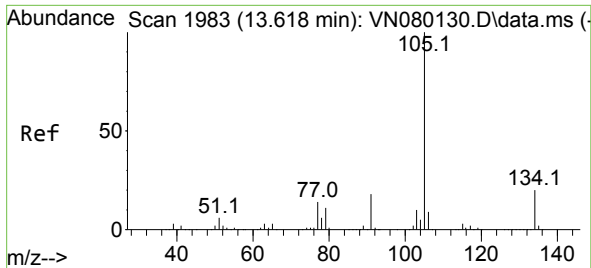
Tgt Ion:119 Resp: 3275
Ion Ratio Lower Upper
119 100
91 40.3 33.9 101.7
134 33.6 13.2 39.6



#84
1,2,4-Trimethylbenzene
Concen: 4.153 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN080384.D
Acq: 06 Dec 2023 14:24

Tgt Ion:105 Resp: 50781
Ion Ratio Lower Upper
105 100
120 43.0 22.0 66.0

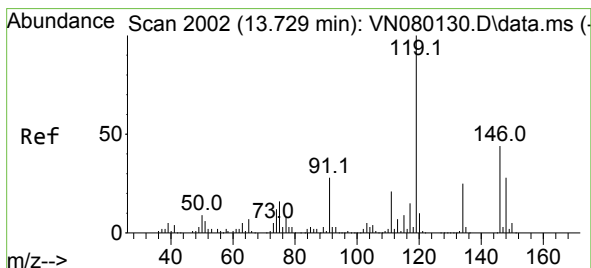
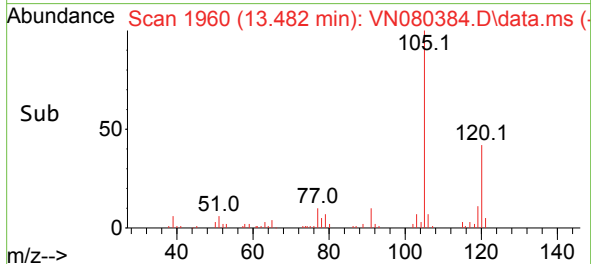
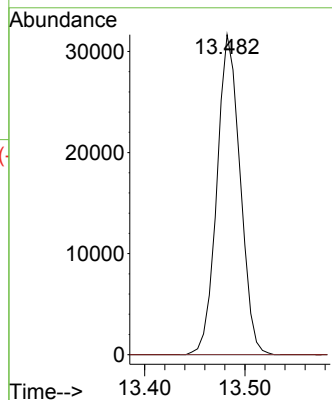
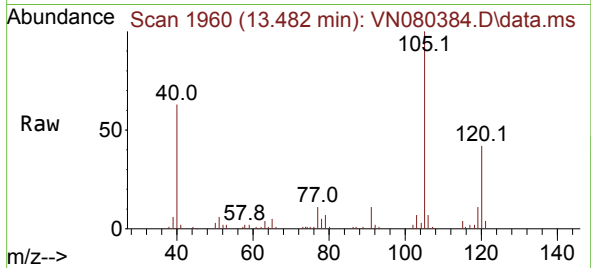




#85
 sec-Butylbenzene
 Concen: 4.031 ug/l
 RT: 13.482 min Scan# 1983
 Delta R.T. -0.135 min
 Lab File: VN080384.D
 Acq: 06 Dec 2023 14:24

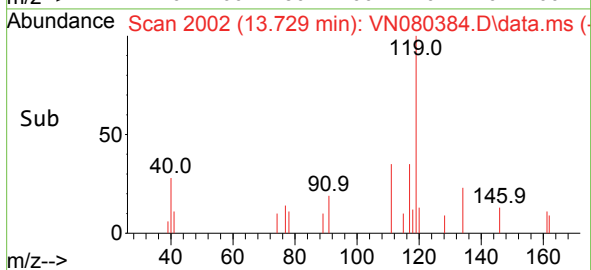
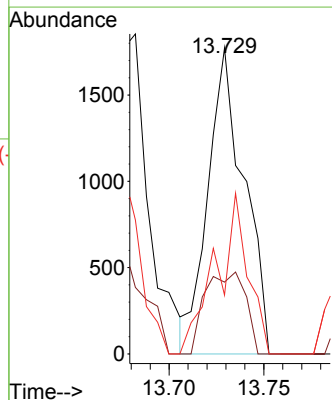
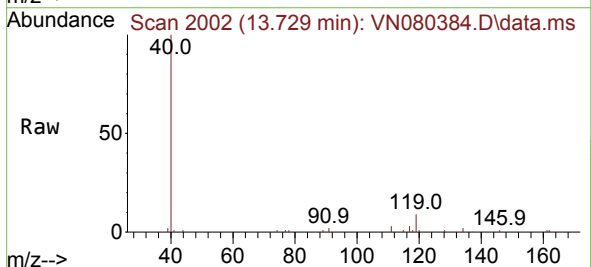
Instrument :
 MSVOA_N
 ClientSampleId :

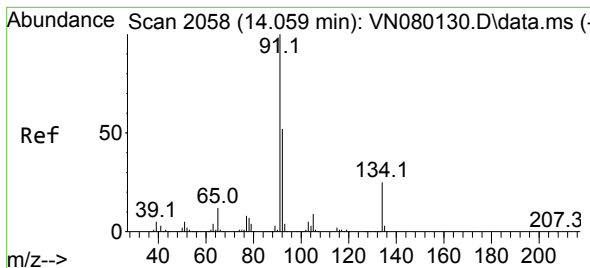
Tgt Ion:105 Resp: 50781
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: 0.209 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN080384.D
 Acq: 06 Dec 2023 14:24

Tgt Ion:119 Resp: 2350
 Ion Ratio Lower Upper
 119 100
 134 30.0 12.6 37.8
 91 0.0 12.4 37.2#





#89

n-Butylbenzene

Concen: 7.974 ug/l

RT: 13.994 min Scan# 2058

Delta R.T. -0.065 min

Lab File: VN080384.D

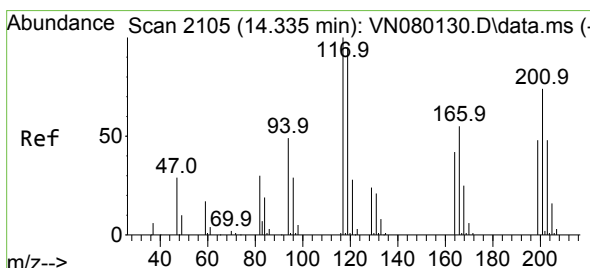
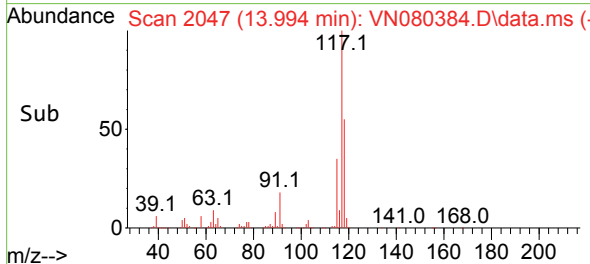
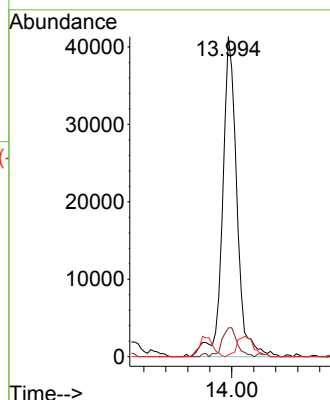
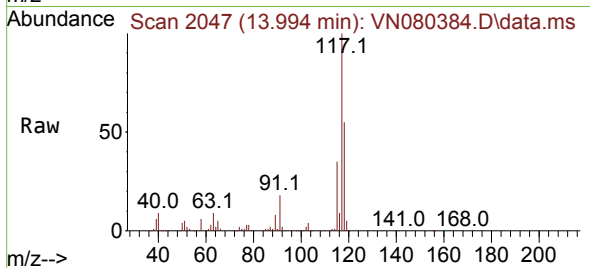
Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	91	Resp:	75109
Ion	Ratio	Lower	Upper
91	100		
92	9.5	26.4	79.0#
134	0.0	12.6	37.6#



#90

Hexachloroethane

Concen: 1.506 ug/l

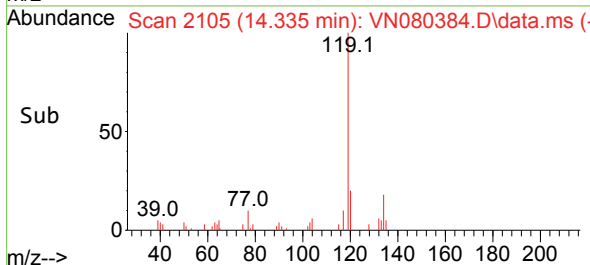
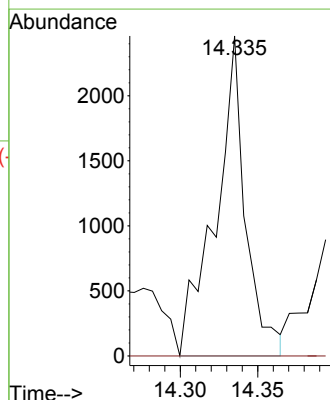
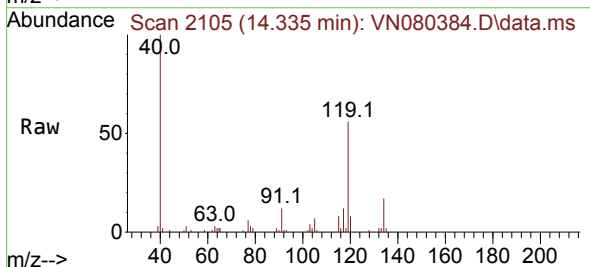
RT: 14.335 min Scan# 2105

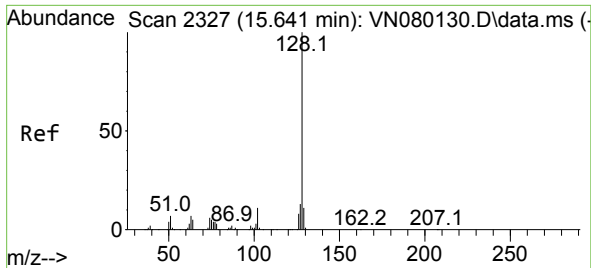
Delta R.T. -0.000 min

Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Tgt Ion:	117	Resp:	3304
Ion	Ratio	Lower	Upper
117	100		
201	0.0	29.3	88.0#





#95

Naphthalene

Concen: 198.450 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

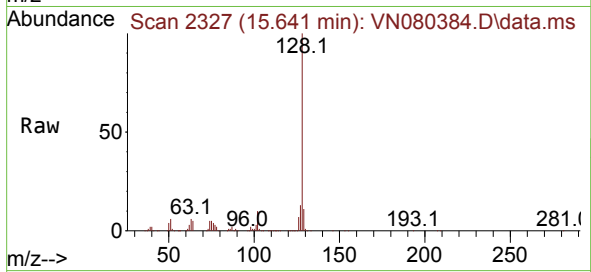
Lab File: VN080384.D

Acq: 06 Dec 2023 14:24

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 2075483

Ion Ratio Lower Upper

128 100

127 12.9 10.0 15.0

129 10.7 8.7 13.1

