

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110723\
 Data File : VN079976.D
 Acq On : 07 Nov 2023 19:46
 Operator : JC\MD
 Sample : 05107-32 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 08 04:34:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

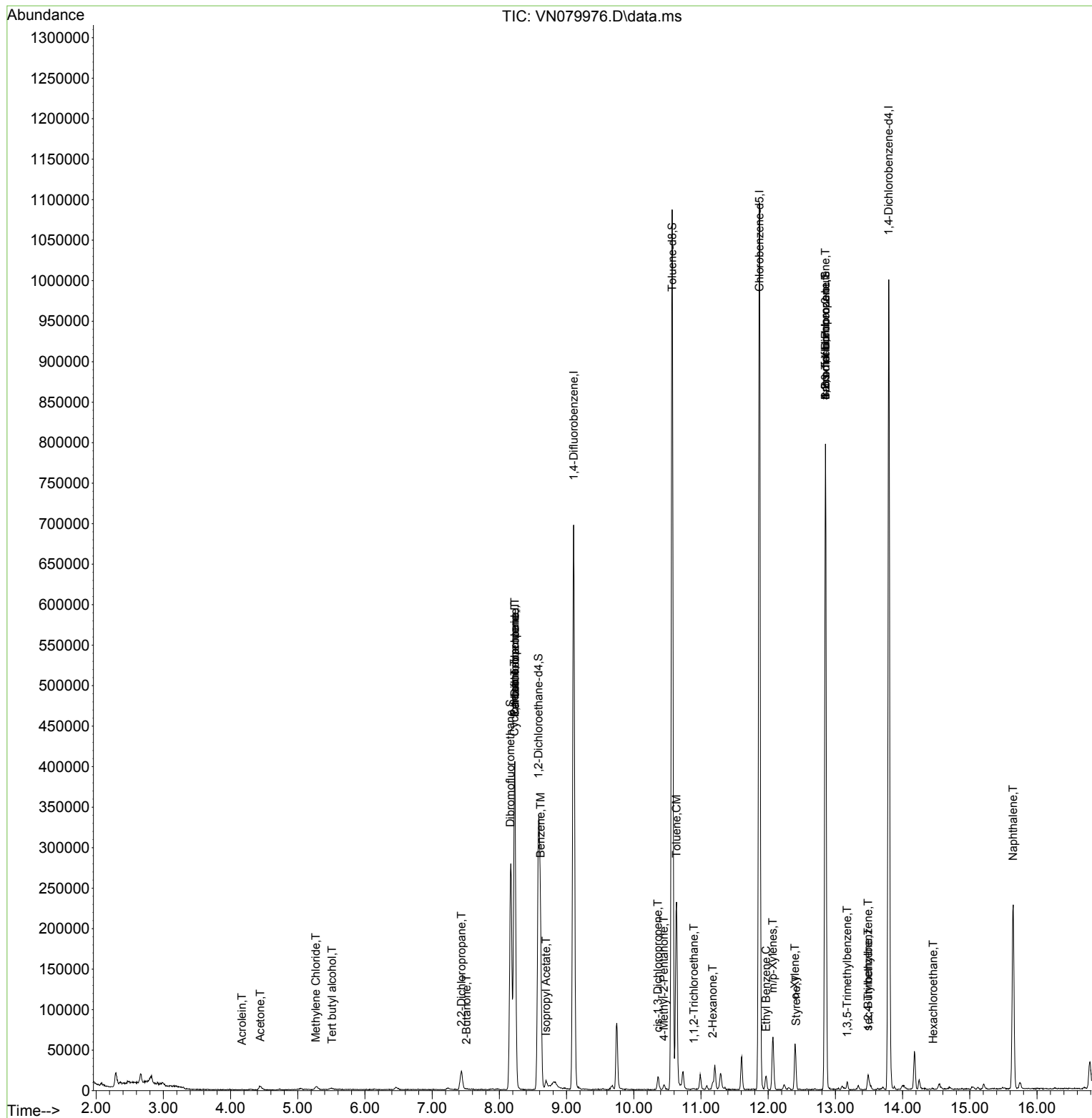
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	283655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	584093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	616123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	256733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	243925	56.443	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.880%
35) Dibromofluoromethane	8.165	113	204537	49.477	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.960%
50) Toluene-d8	10.571	98	727228	47.785	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.580%
62) 4-Bromofluorobenzene	12.853	95	271243	53.741	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.480%
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	1195	Below Cal		98
11) Tert butyl alcohol	5.512	59	492	0.892 ug/l	#	72
13) Acrolein	4.171	56	59	2.693 ug/l	#	67
16) Acetone	4.442	43	9867	6.500 ug/l	#	71
20) Methylene Chloride	5.271	84	2796	0.730 ug/l	#	71
25) 2-Butanone	7.512	43	2169	0.976 ug/l	#	37
26) 2,2-Dichloropropane	7.436	77	1435	0.263 ug/l	#	53
31) Cyclohexane	8.224	56	7689	1.346 ug/l	#	47
36) 1,1-Dichloropropene	8.230	75	26036	4.411 ug/l	#	47
38) Carbon Tetrachloride	8.230	117	30739	5.167 ug/l	#	17
40) Benzene	8.612	78	195383	11.052 ug/l		96
43) Isopropyl Acetate	8.694	43	11945	1.258 ug/l	#	76
51) 4-Methyl-2-Pentanone	10.447	43	4936	0.924 ug/l	#	76
52) Toluene	10.635	92	102813	9.809 ug/l		96
54) cis-1,3-Dichloropropene	10.359	75	2742	0.390 ug/l	#	73
55) 1,1,2-Trichloroethane	10.894	97	915	0.217 ug/l	#	16
59) 2-Hexanone	11.176	43	6104	1.493 ug/l	#	19
67) Ethyl Benzene	11.971	91	11734	0.504 ug/l		90
68) m/p-Xylenes	12.071	106	20021	2.308 ug/l		94
69) o-Xylene	12.400	106	13757	1.647 ug/l		89
70) Styrene	12.418	104	3810	0.284 ug/l	#	46
71) Bromoform	12.853	173	1715	0.502 ug/l	#	1
76) 1,2,3-Trichloropropane	12.853	75	144567	23.985 ug/l	#	1
80) 1,3,5-Trimethylbenzene	13.176	105	4079	0.269 ug/l		94
81) trans-1,4-Dichloro-2-b...	12.853	75	144567	65.258 ug/l	#	15
84) 1,2,4-Trimethylbenzene	13.488	105	11774	0.789 ug/l		84
85) sec-Butylbenzene	13.488	105	11774	0.685 ug/l	#	57
90) Hexachloroethane	14.459	117	633	0.228 ug/l	#	21
95) Naphthalene	15.647	128	210632	15.593 ug/l		98

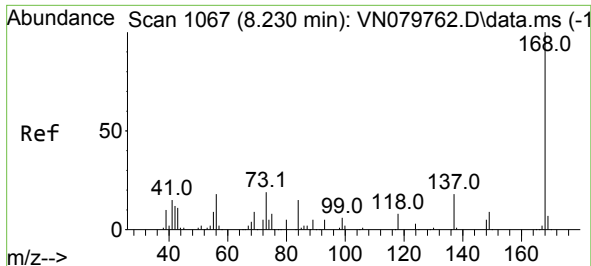
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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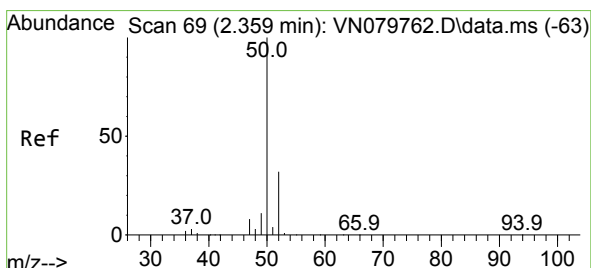
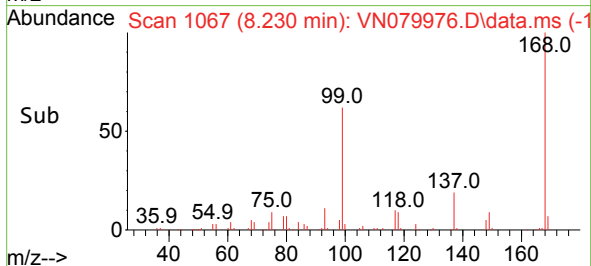
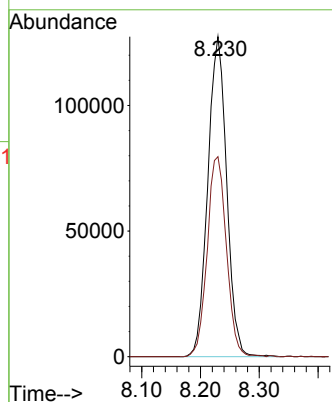
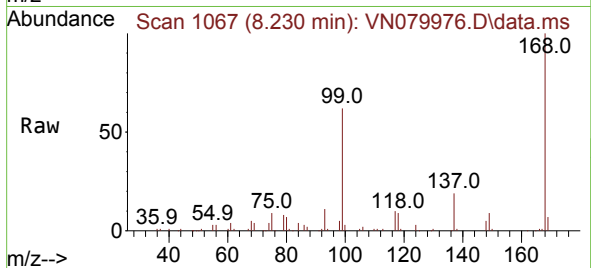




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

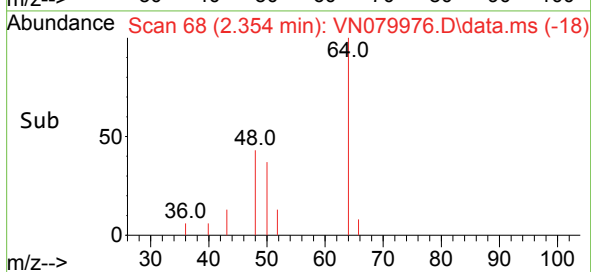
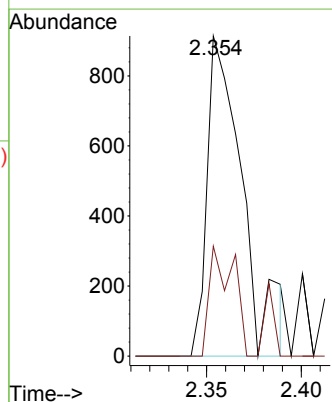
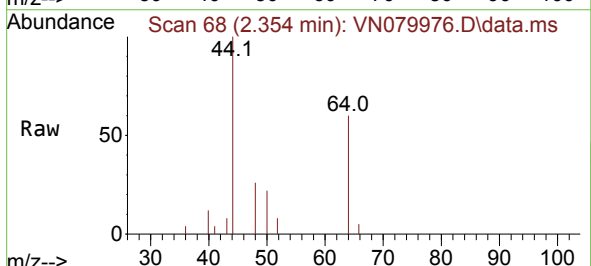
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 283655
Ion Ratio Lower Upper
168 100
99 62.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.354 min Scan# 68
Delta R.T. -0.005 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

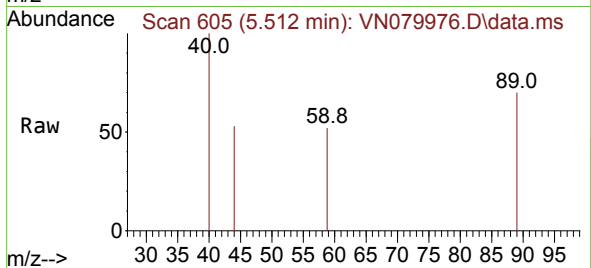
Tgt Ion: 50 Resp: 1195
Ion Ratio Lower Upper
50 100
52 34.4 26.5 39.7



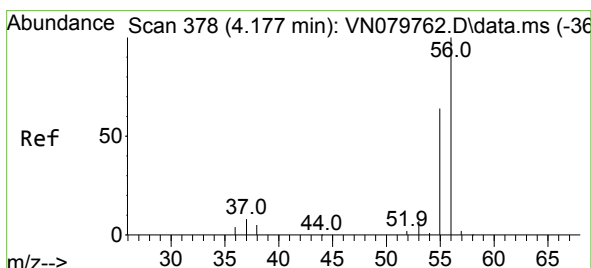
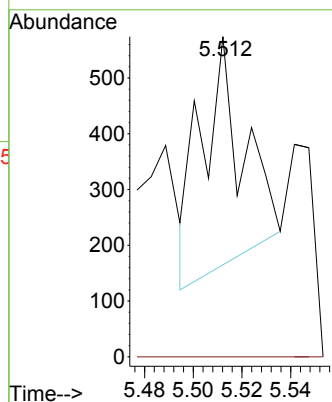
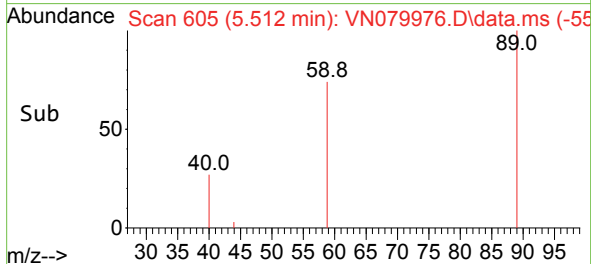


#11
Tert butyl alcohol
Concen: 0.892 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Instrument :
MSVOA_N
ClientSampleId :

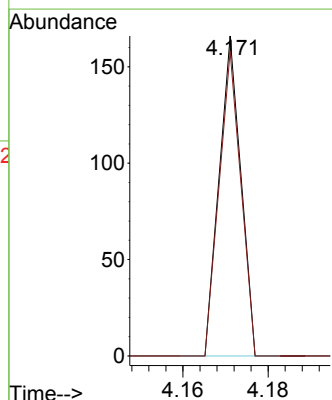
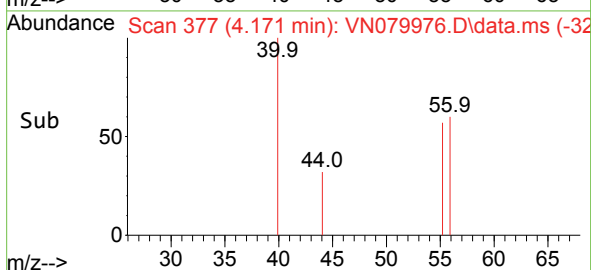
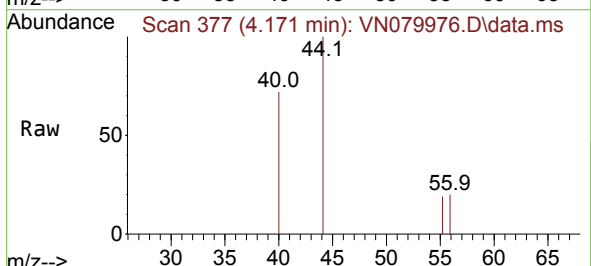


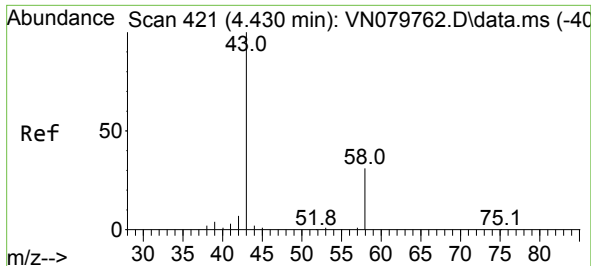
Tgt Ion: 59 Resp: 492
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 2.693 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.012 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 94.9 54.5 81.7#

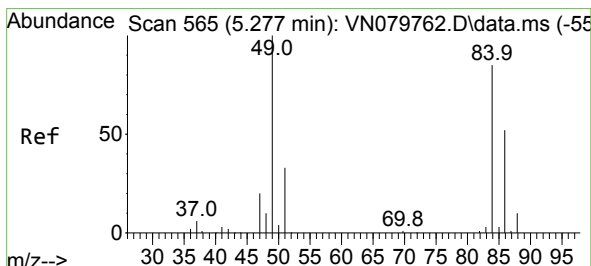
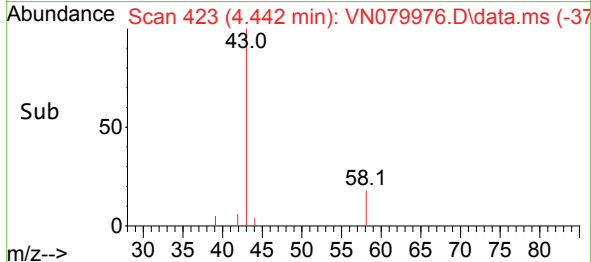
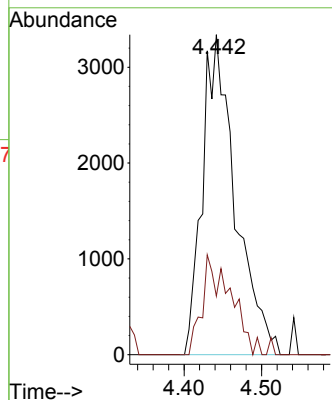
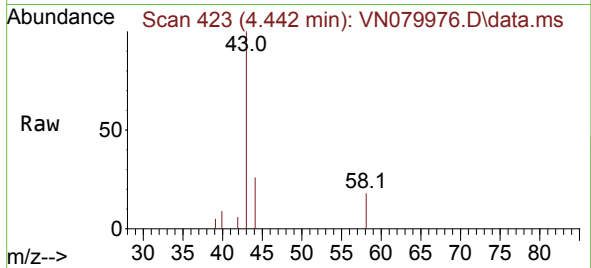




#16
Acetone
Concen: 6.500 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

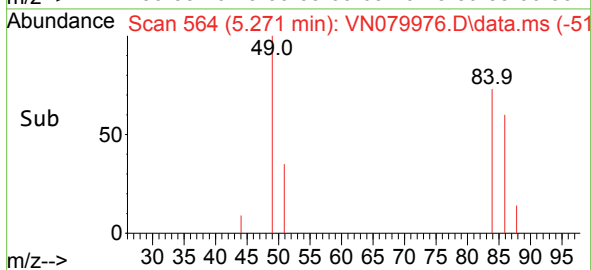
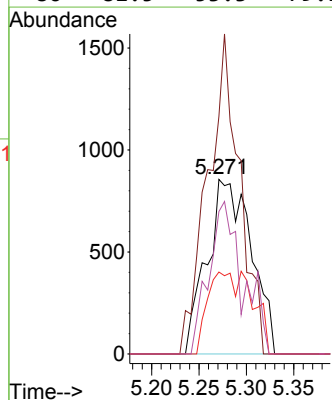
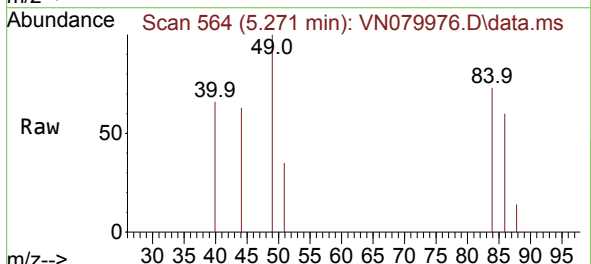
Instrument :
MSVOA_N
ClientSampleId :

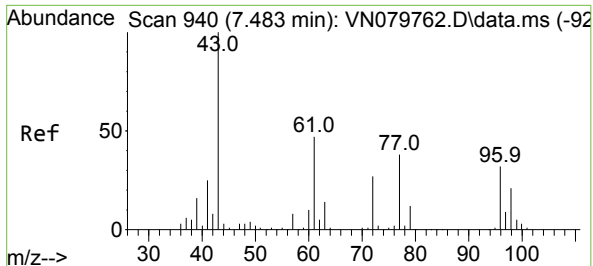
Tgt Ion: 43 Resp: 9867
Ion Ratio Lower Upper
43 100
58 18.3 28.0 42.0#



#20
Methylene Chloride
Concen: 0.730 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 84 Resp: 2796
Ion Ratio Lower Upper
84 100
49 136.1 79.7 119.5#
51 47.0 25.2 37.8#
86 81.5 53.3 79.9#





#25

2-Butanone

Concen: 0.976 ug/l

RT: 7.512 min Scan# 94

Delta R.T. 0.024 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

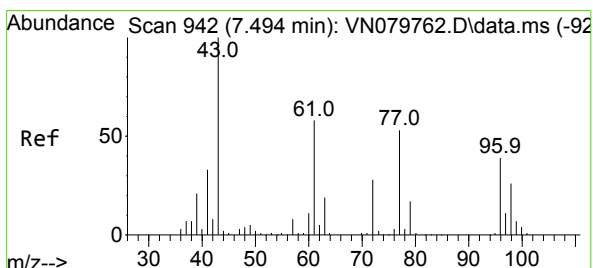
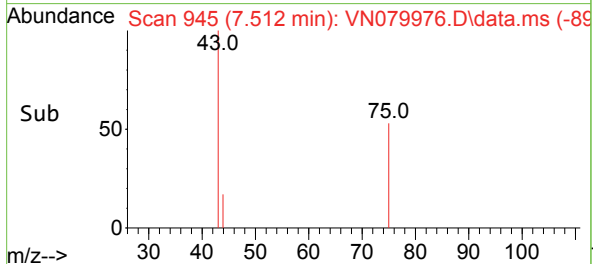
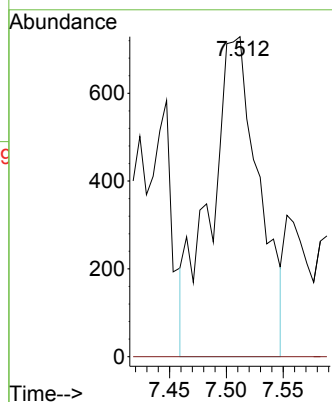
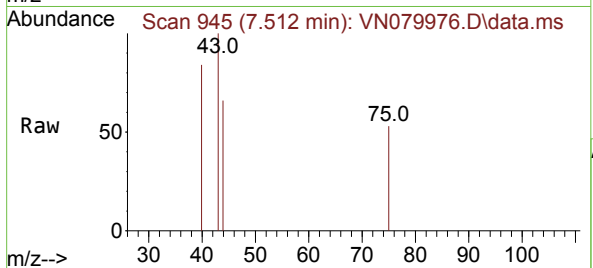
ClientSampleId :

Tgt Ion: 43 Resp: 2169

Ion Ratio Lower Upper

43 100

72 0.0 30.2 45.2#



#26

2,2-Dichloropropane

Concen: 0.263 ug/l

RT: 7.436 min Scan# 932

Delta R.T. -0.053 min

Lab File: VN079976.D

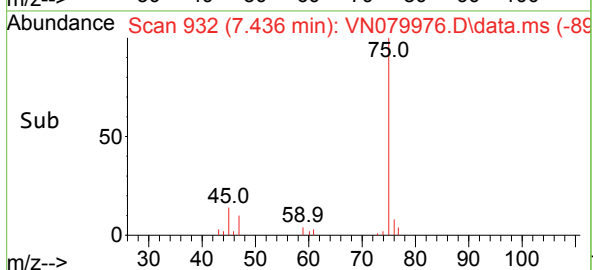
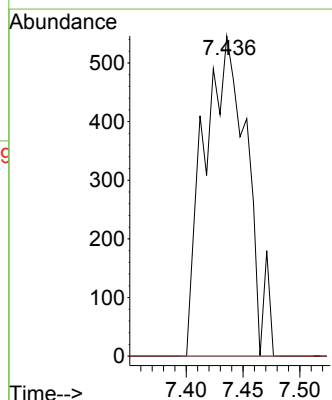
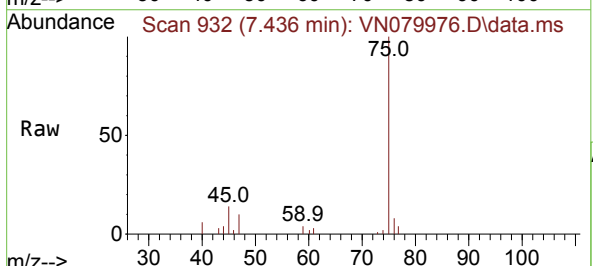
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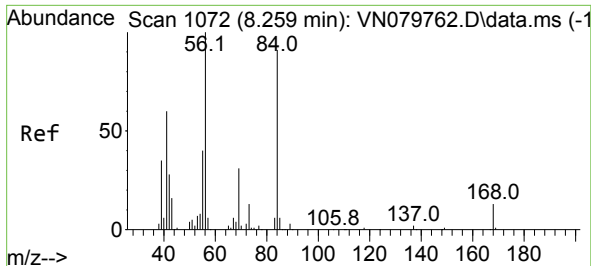
Tgt Ion: 77 Resp: 1435

Ion Ratio Lower Upper

77 100

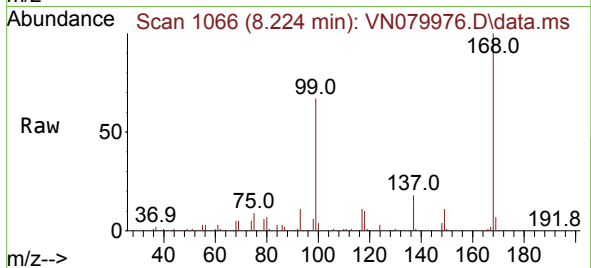
97 0.0 11.2 33.6#



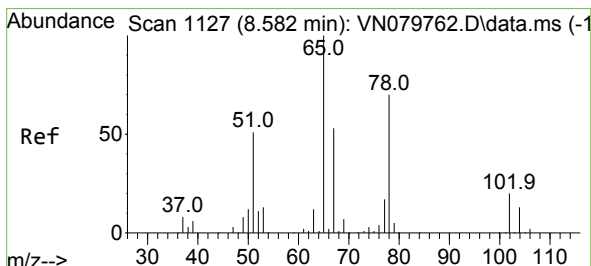
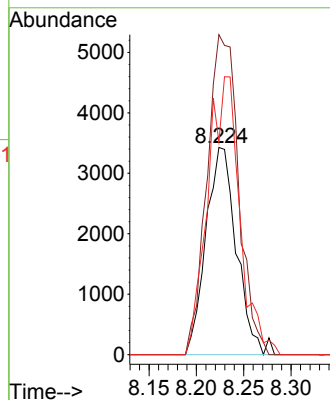
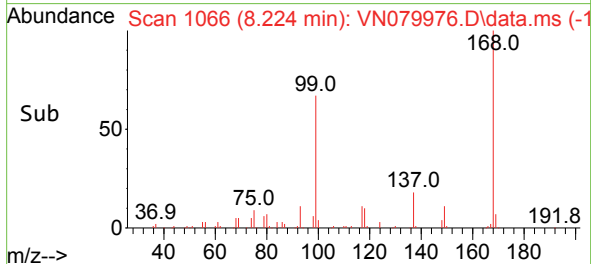


#31
Cyclohexane
Concen: 1.346 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Instrument :
MSVOA_N
ClientSampleId :

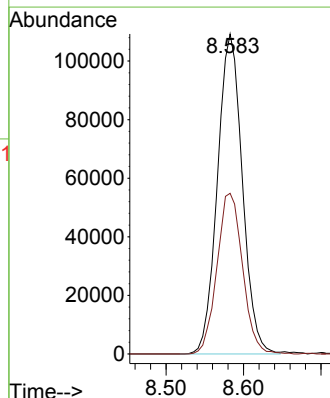
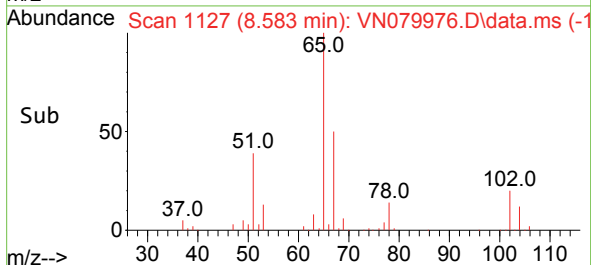
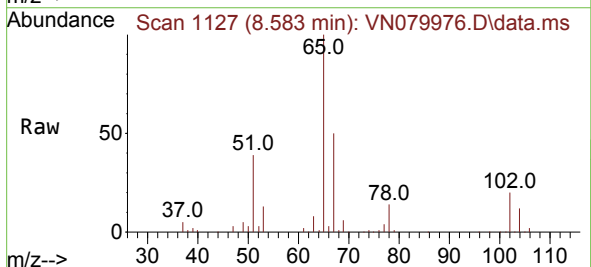


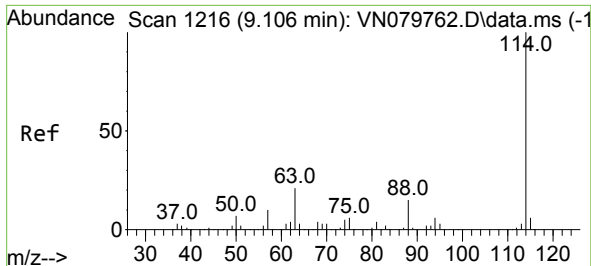
Tgt Ion: 56 Resp: 7689
Ion Ratio Lower Upper
56 100
69 154.4 26.8 40.2#
84 102.6 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 56.443 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 65 Resp: 243925
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

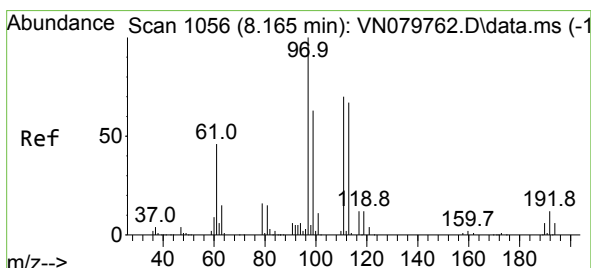
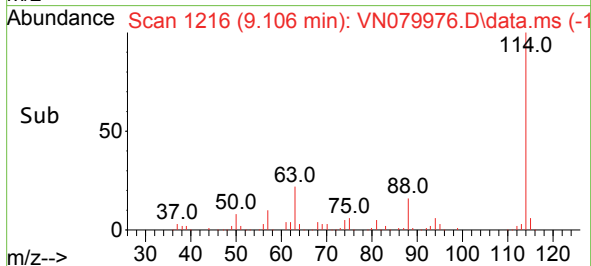
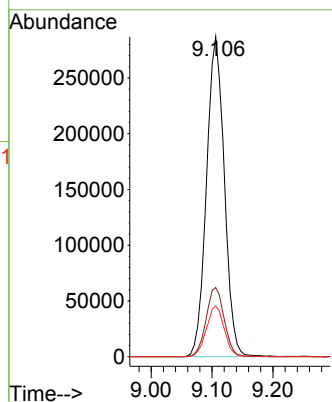
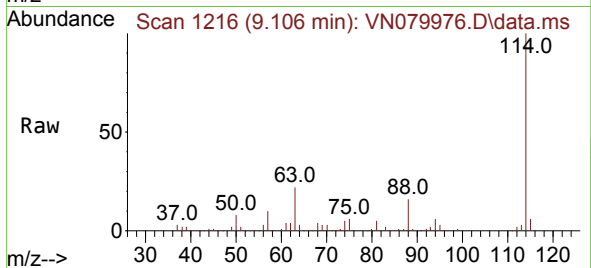
Tgt Ion:114 Resp: 584093

Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.477 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

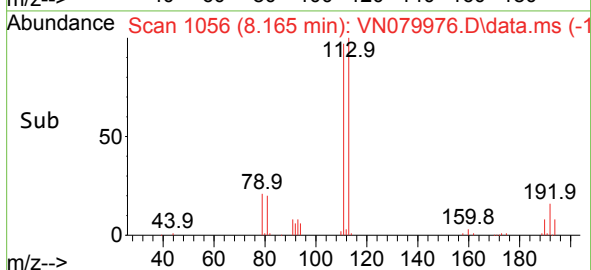
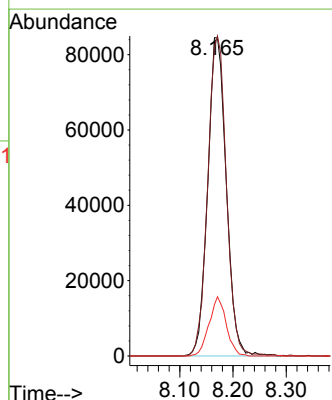
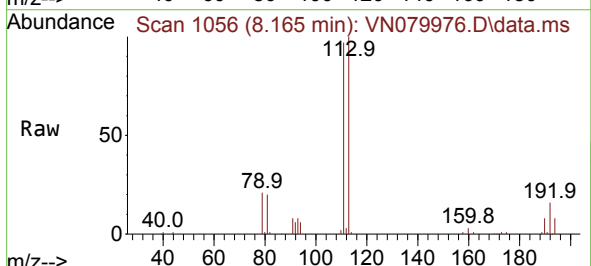
Tgt Ion:113 Resp: 204537

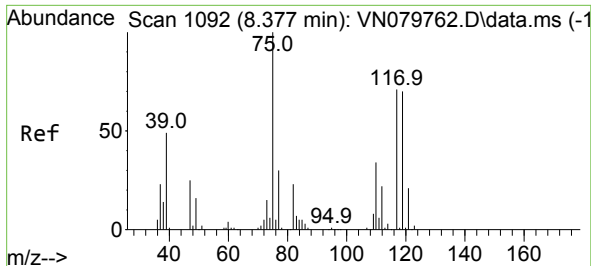
Ion Ratio Lower Upper

113 100

111 100.7 82.6 123.8

192 17.2 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.411 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

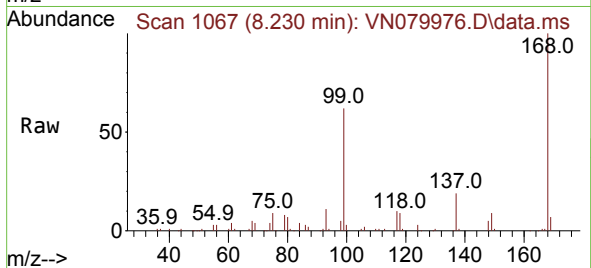
Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

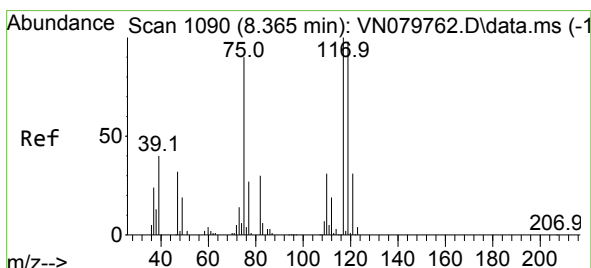
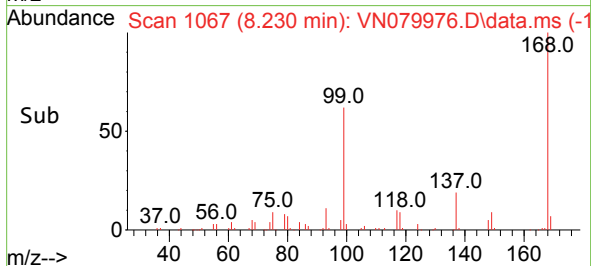
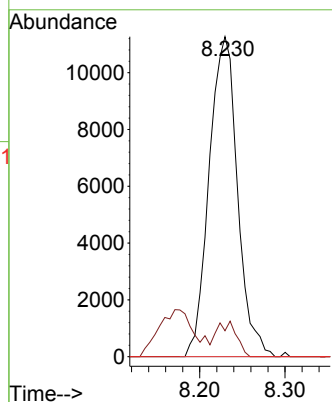
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	26036
Ion Ratio	Lower	Upper	
75	100		
110	7.7	19.1	57.3#
77	0.0	25.0	37.4#



#38

Carbon Tetrachloride

Concen: 5.167 ug/l

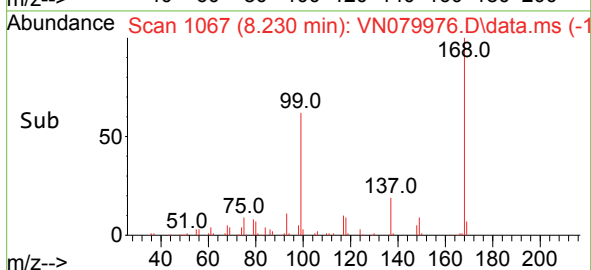
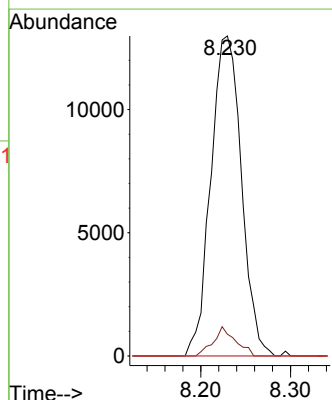
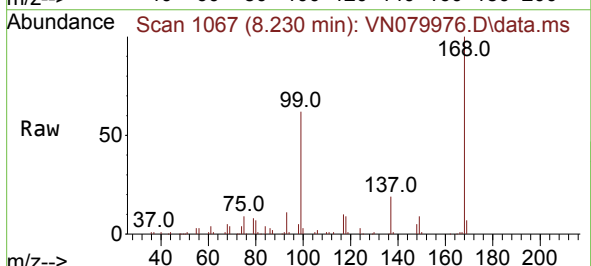
RT: 8.230 min Scan# 1067

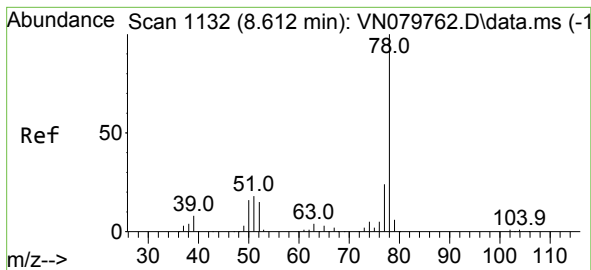
Delta R.T. -0.129 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Tgt Ion:	117	Resp:	30739
Ion Ratio	Lower	Upper	
117	100		
119	6.8	77.3	115.9#
121	0.0	23.3	34.9#





#40

Benzene

Concen: 11.052 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

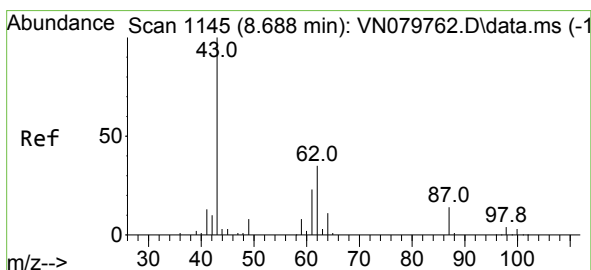
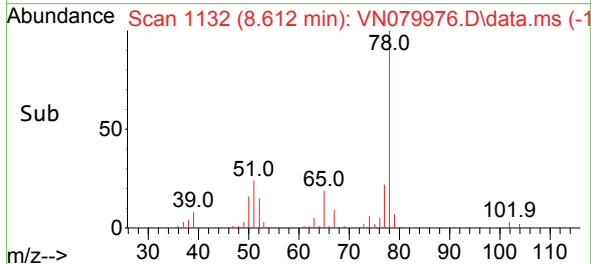
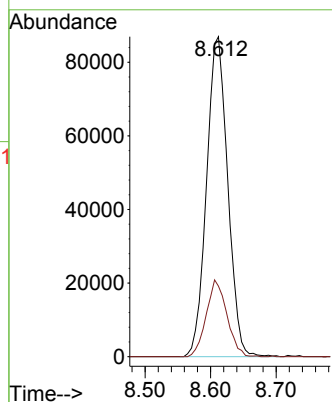
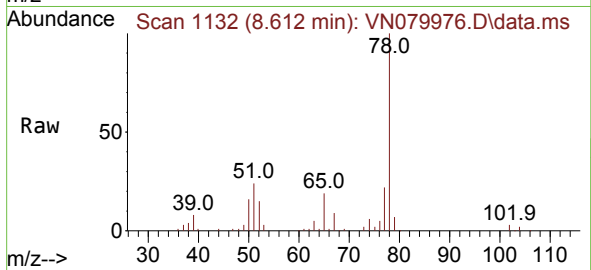
ClientSampleId :

Tgt Ion: 78 Resp: 195383

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.6



#43

Isopropyl Acetate

Concen: 1.258 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

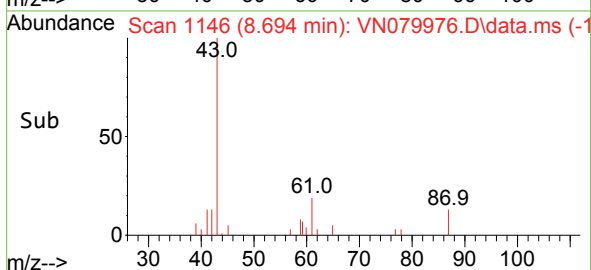
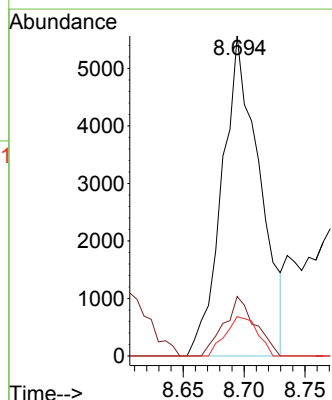
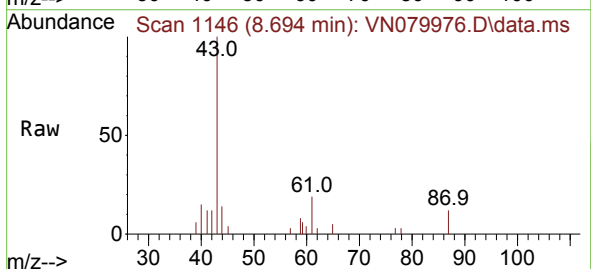
Tgt Ion: 43 Resp: 11945

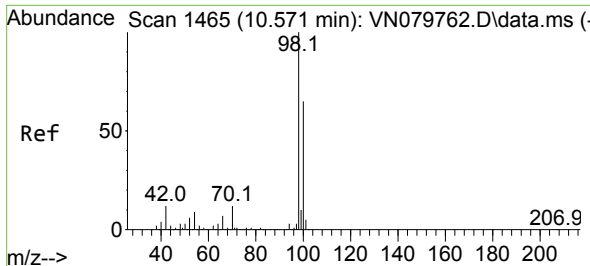
Ion Ratio Lower Upper

43 100

61 15.4 24.7 37.1#

87 10.4 14.6 21.8#

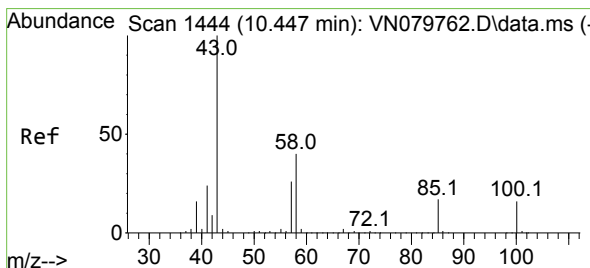
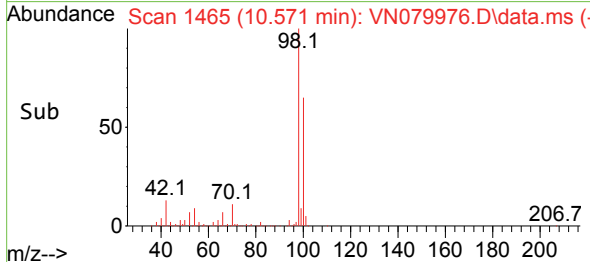
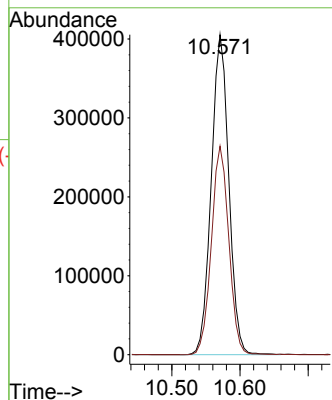
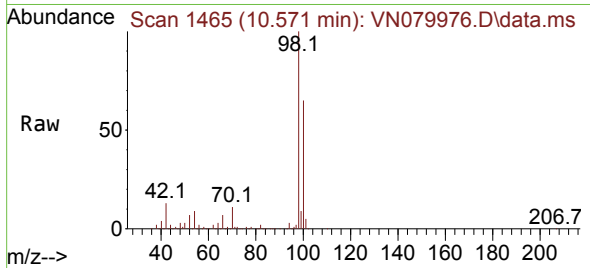




#50
Toluene-d8
Concen: 47.785 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

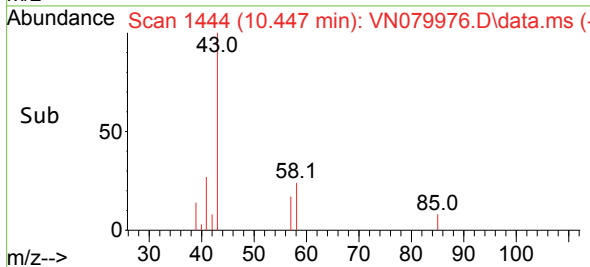
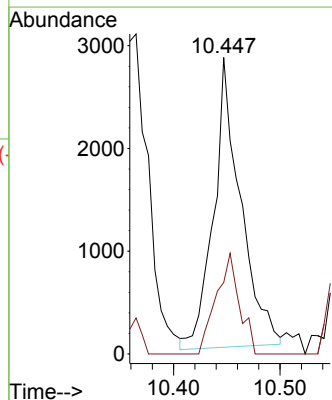
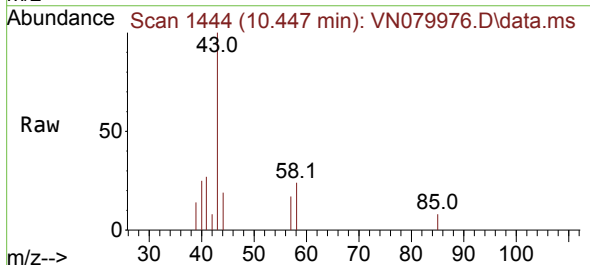
Instrument :
MSVOA_N
ClientSampleId :

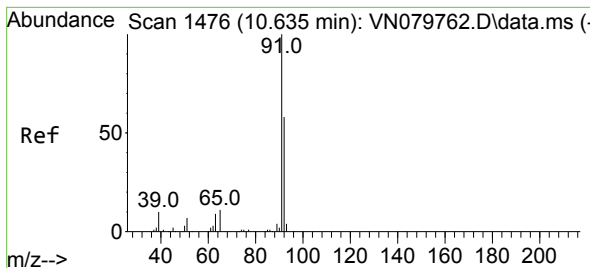
Tgt Ion: 98 Resp: 727228
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.924 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 43 Resp: 4936
Ion Ratio Lower Upper
43 100
58 30.0 36.6 54.8#





#52

Toluene

Concen: 9.809 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

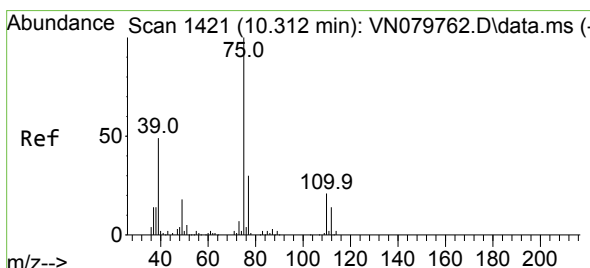
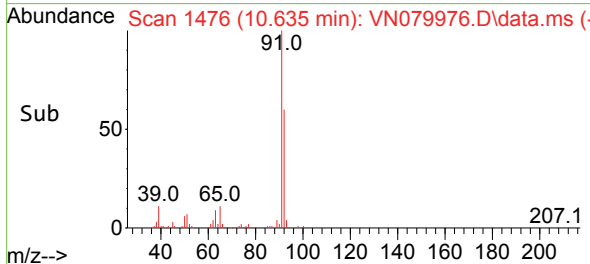
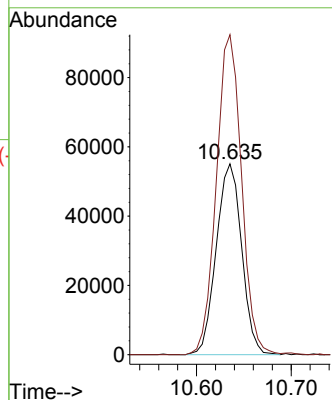
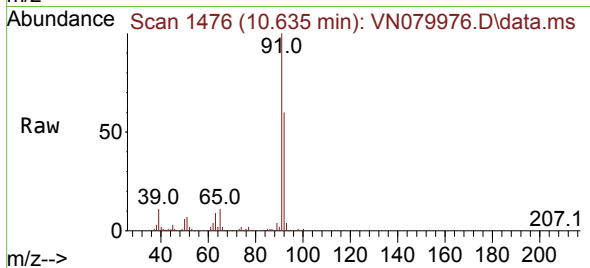
ClientSampleId :

Tgt Ion: 92 Resp: 102813

Ion Ratio Lower Upper

92 100

91 166.7 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 0.390 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.041 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

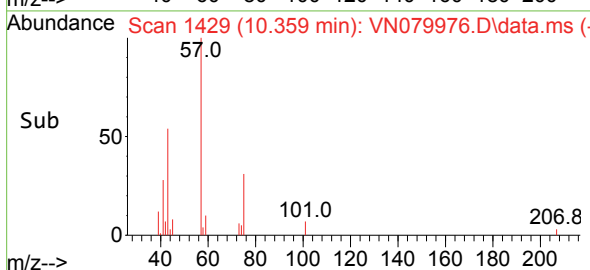
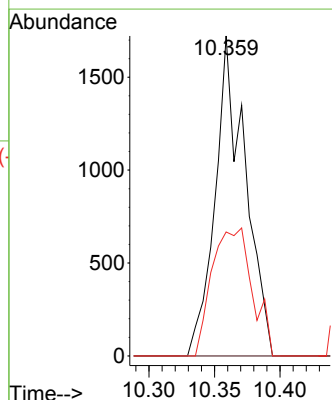
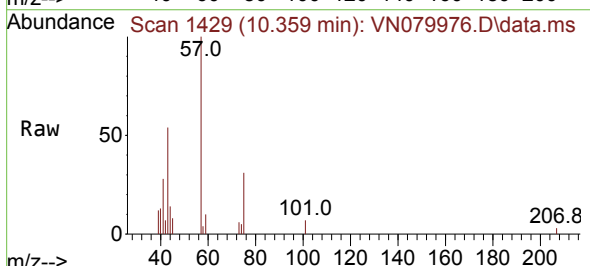
Tgt Ion: 75 Resp: 2742

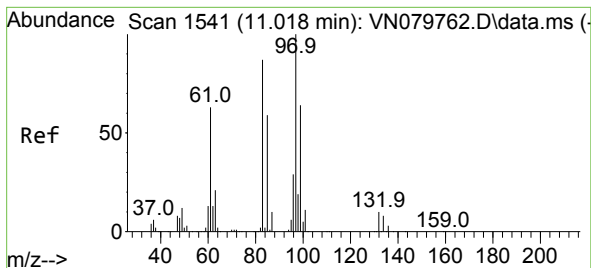
Ion Ratio Lower Upper

75 100

77 0.0 26.1 39.1#

39 38.7 31.6 47.4





#55

1,1,2-Trichloroethane

Concen: 0.217 ug/l

RT: 10.894 min Scan# 1

Delta R.T. -0.123 min

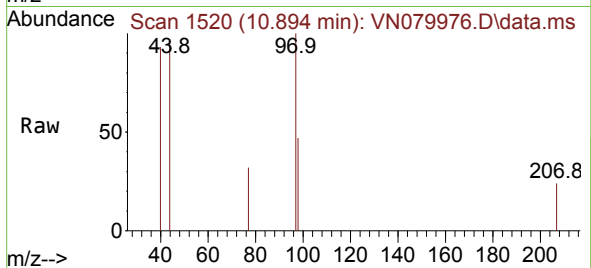
Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 915

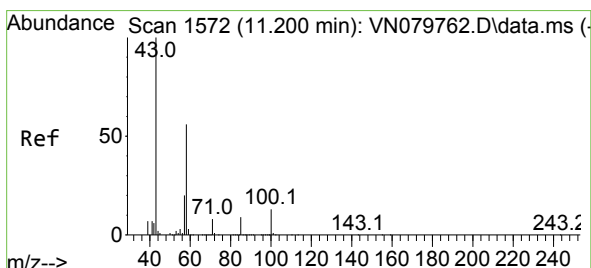
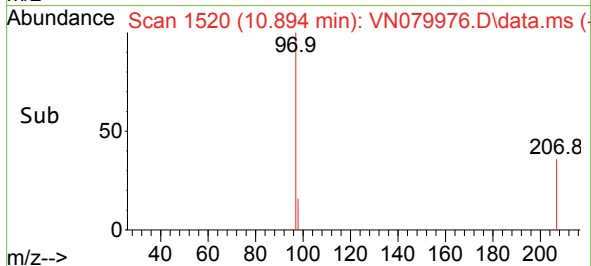
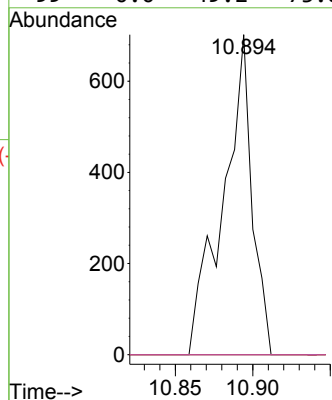
Ion Ratio Lower Upper

97 100

83 0.0 65.1 97.7#

85 0.0 43.4 65.2#

99 0.0 49.2 73.8#



#59

2-Hexanone

Concen: 1.493 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN079976.D

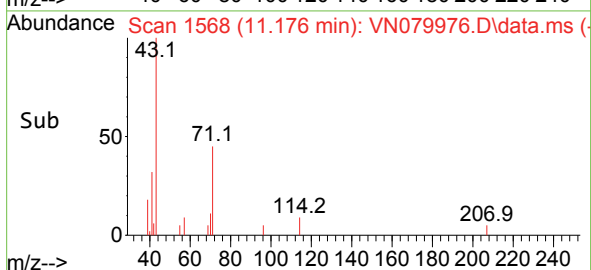
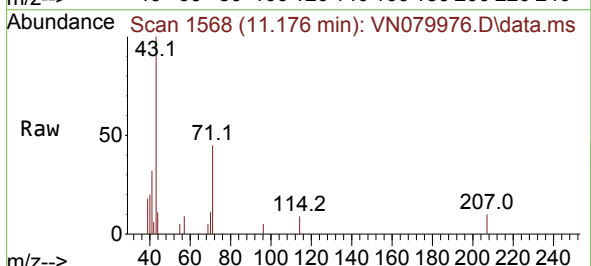
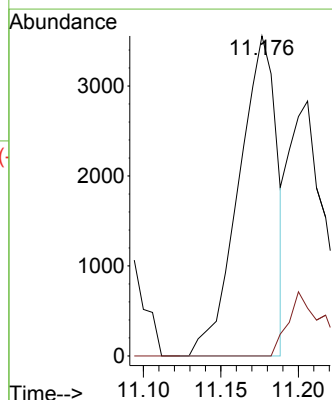
Acq: 07 Nov 2023 19:46

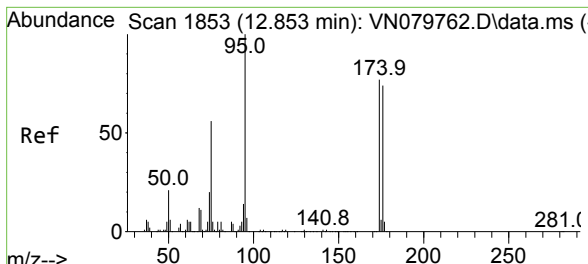
Tgt Ion: 43 Resp: 6104

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

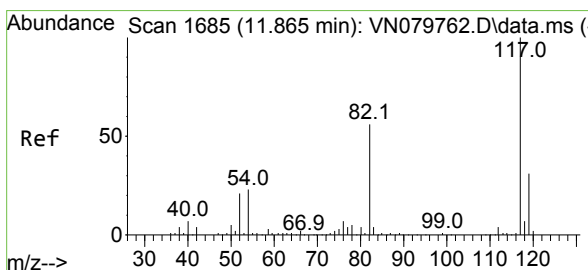
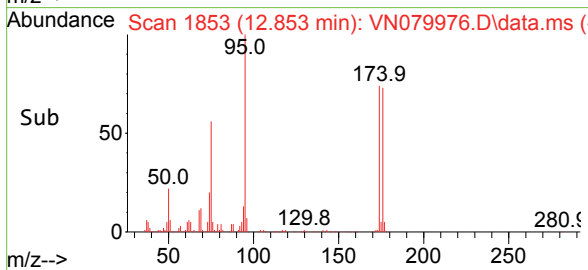
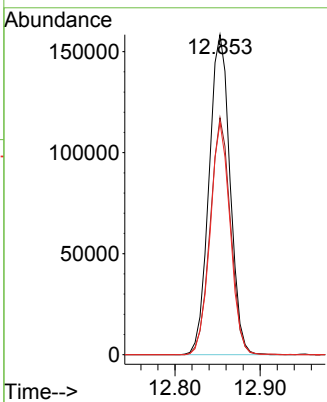
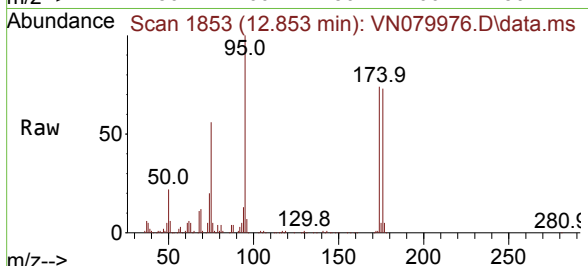




#62
 4-Bromofluorobenzene
 Concen: 53.741 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

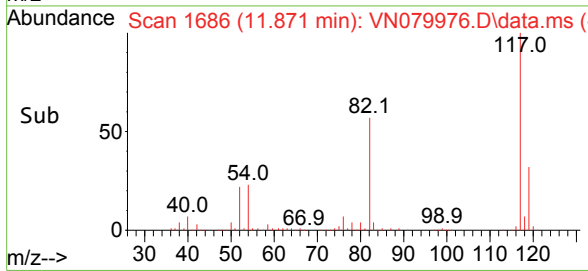
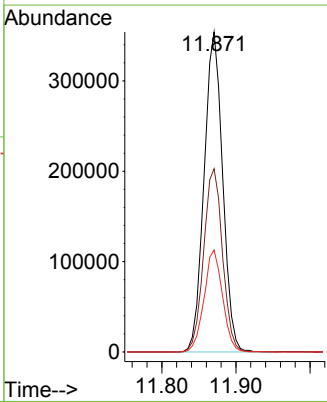
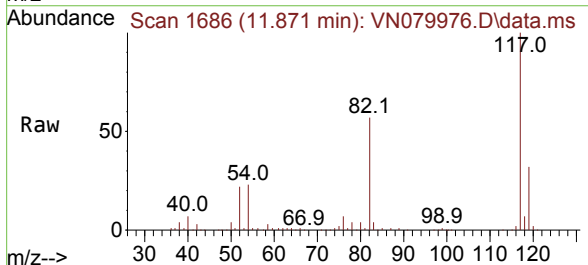
Instrument :
 MSVOA_N
 ClientSampleId :

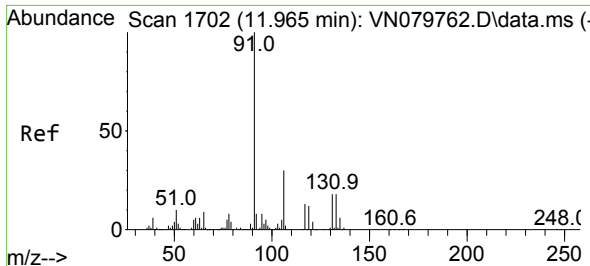
Tgt Ion:	95	Resp:	271243
Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	143.8
176	69.1	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

Tgt Ion:	117	Resp:	616123
Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.0	66.0
119	31.8	25.6	38.4

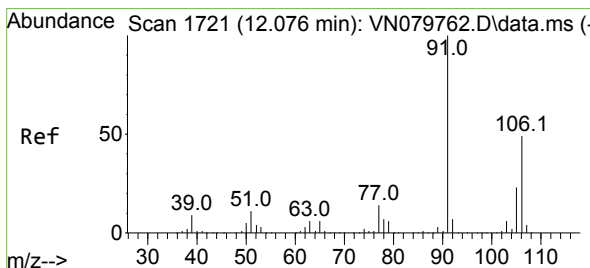
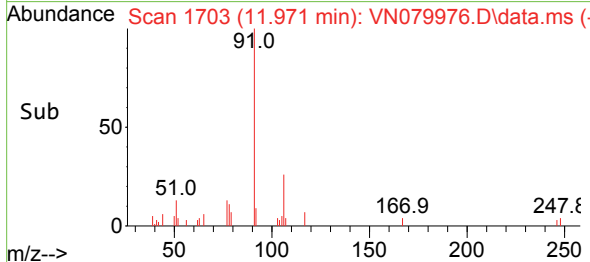
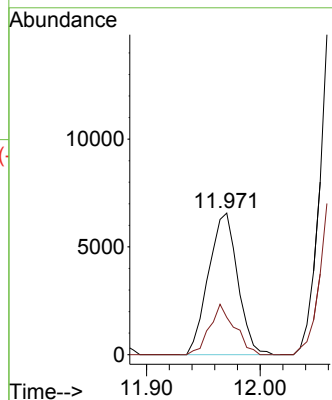
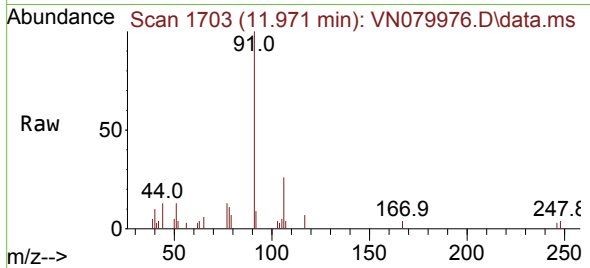




#67
Ethyl Benzene
Concen: 0.504 ug/l
RT: 11.971 min Scan# 11734
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

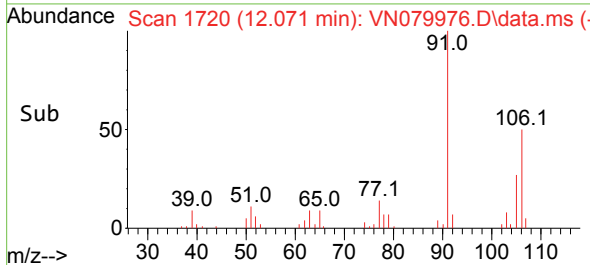
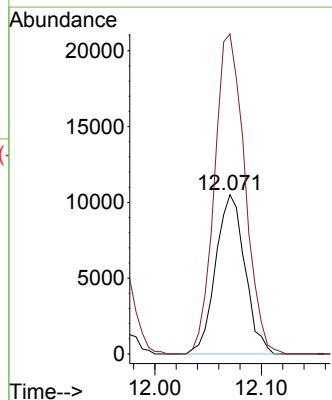
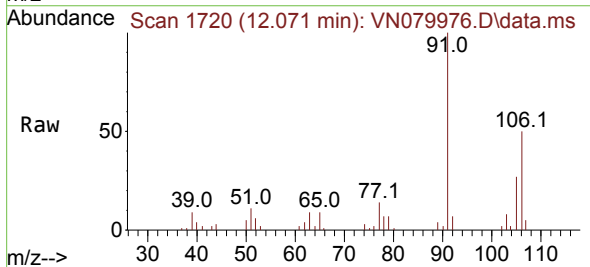
Instrument :
MSVOA_N
ClientSampleId :

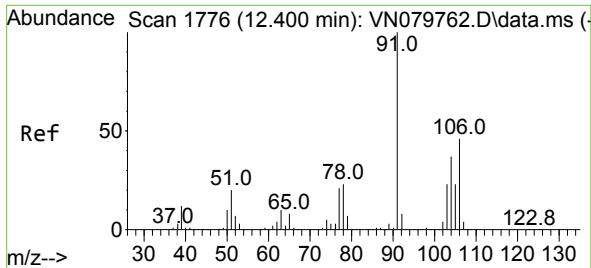
Tgt Ion: 91 Resp: 11734
Ion Ratio Lower Upper
91 100
106 26.4 25.6 38.4



#68
m/p-Xylenes
Concen: 2.308 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion:106 Resp: 20021
Ion Ratio Lower Upper
106 100
91 208.6 159.6 239.4

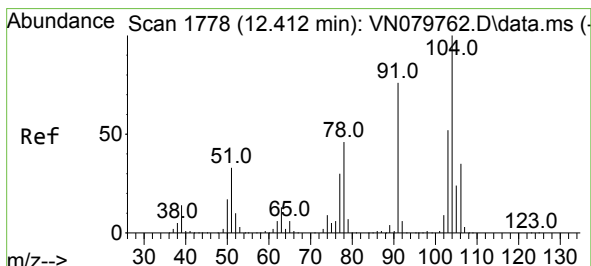
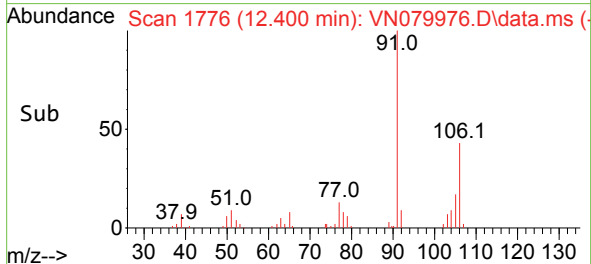
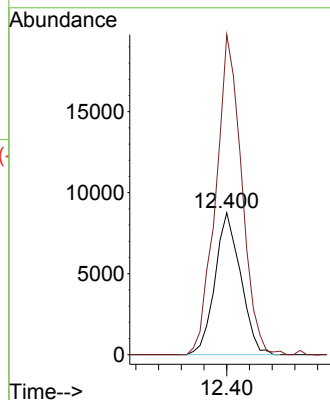
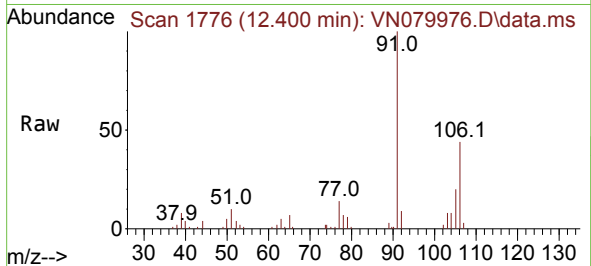




#69
o-Xylene
Concen: 1.647 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

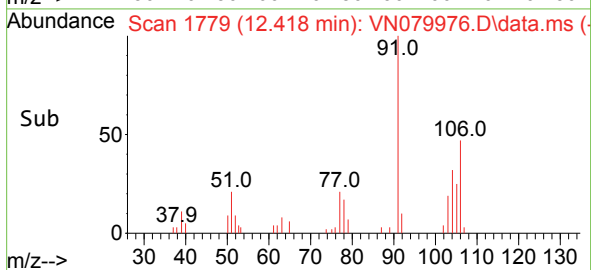
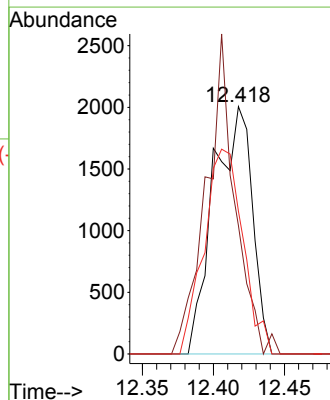
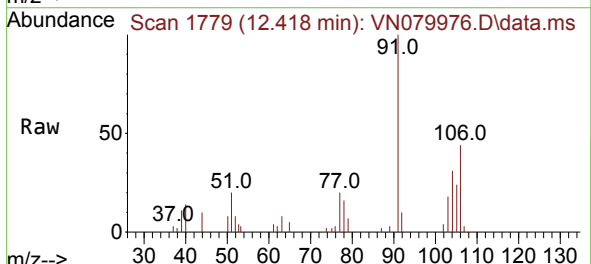
Instrument :
MSVOA_N
ClientSampleId :

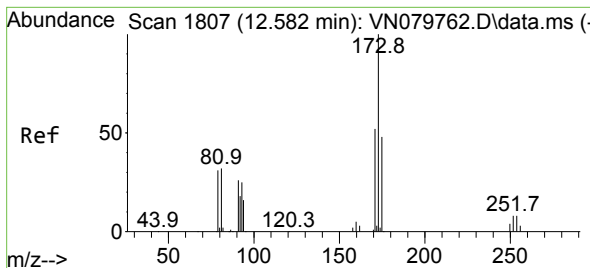
Tgt Ion:106 Resp: 13757
Ion Ratio Lower Upper
106 100
91 227.7 105.2 315.5



#70
Styrene
Concen: 0.284 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion:104 Resp: 3810
Ion Ratio Lower Upper
104 100
78 95.9 39.5 59.3#
103 83.1 43.2 64.8#





#71

Bromoform

Concen: 0.502 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

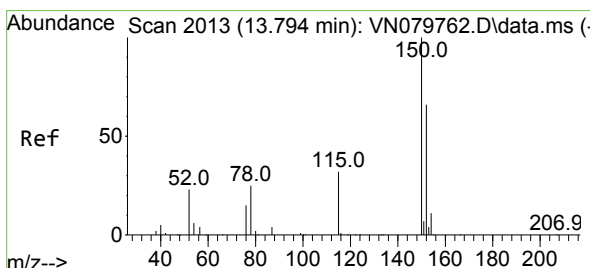
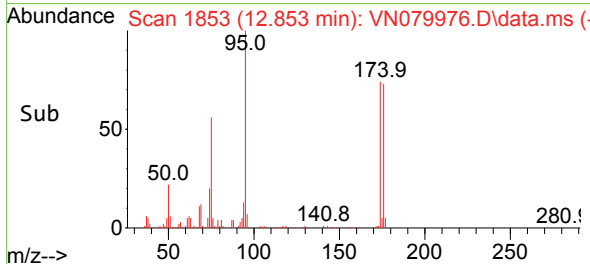
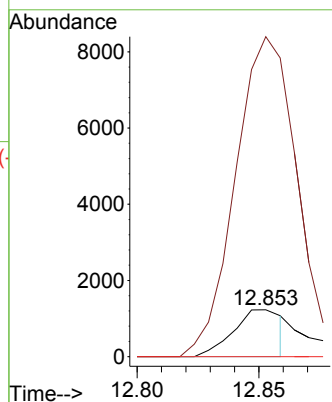
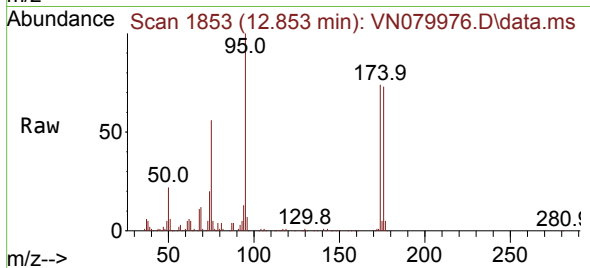
Tgt Ion:173 Resp: 1715

Ion Ratio Lower Upper

173 100

175 669.9 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: VN079976.D

Acq: 07 Nov 2023 19:46

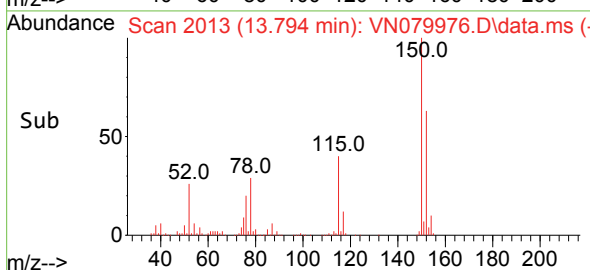
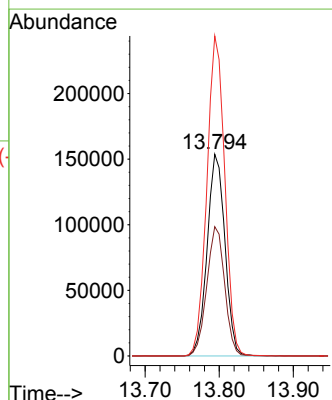
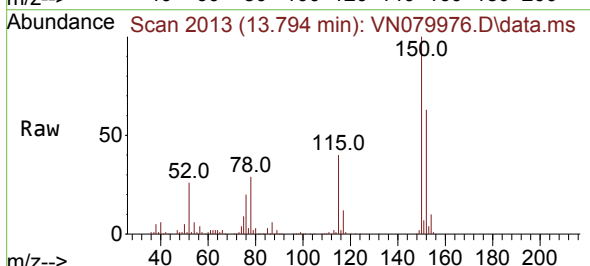
Tgt Ion:152 Resp: 256733

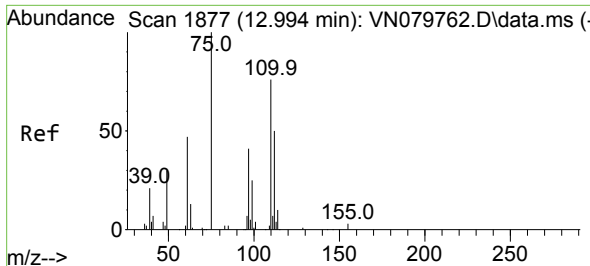
Ion Ratio Lower Upper

152 100

115 64.5 32.3 96.8

150 159.0 0.0 355.8

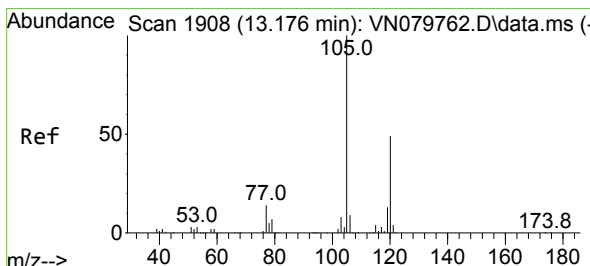
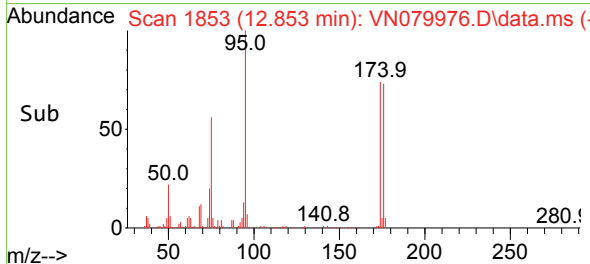
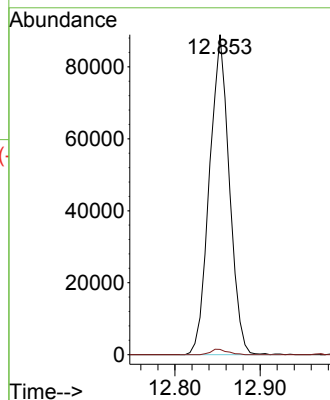
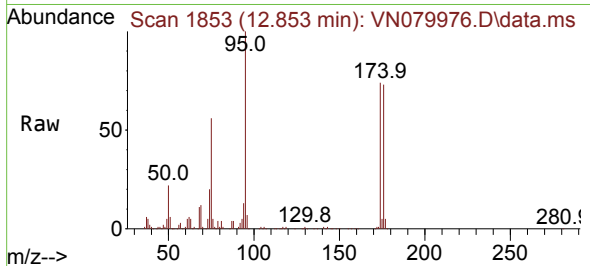




#76
 1,2,3-Trichloropropane
 Concen: 23.985 ug/l
 RT: 12.853 min Scan# 1877
 Delta R.T. -0.141 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

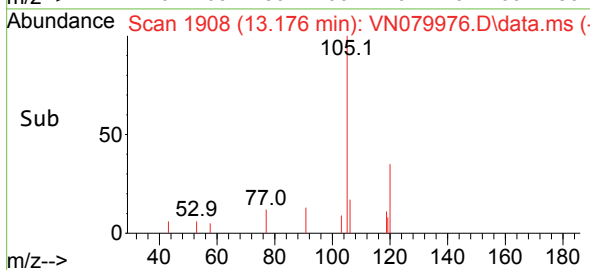
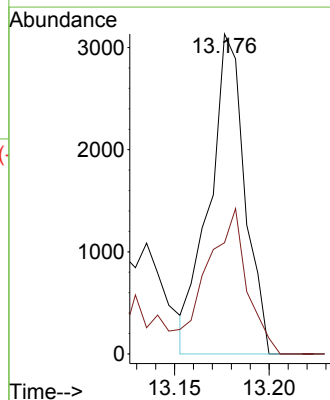
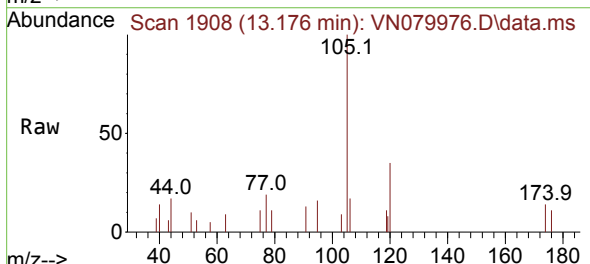
Instrument :
 MSVOA_N
 ClientSampleId :

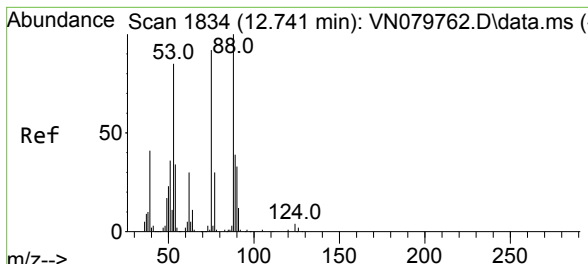
Tgt Ion: 75 Resp: 144567
 Ion Ratio Lower Upper
 75 100
 77 1.5 84.5 253.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.269 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

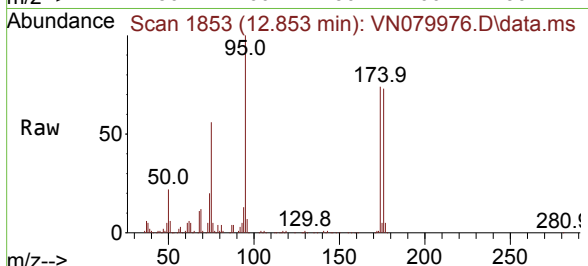
Tgt Ion:105 Resp: 4079
 Ion Ratio Lower Upper
 105 100
 120 52.1 24.1 72.3



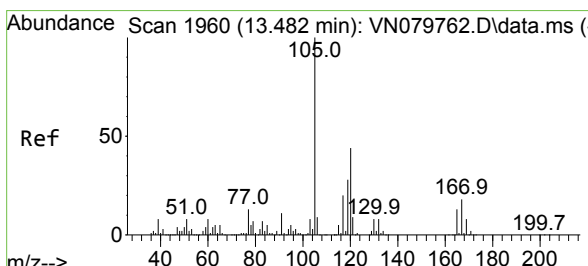
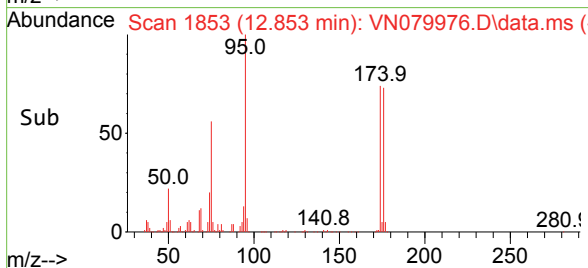
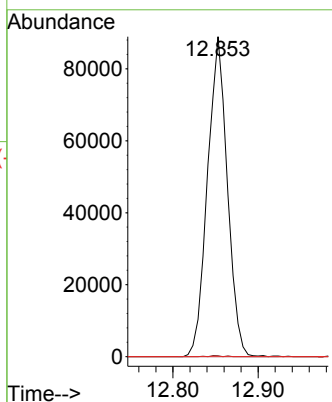


#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.258 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.118 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

Instrument :
 MSVOA_N
 ClientSampleId :

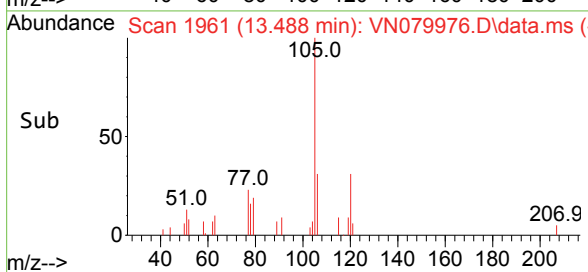
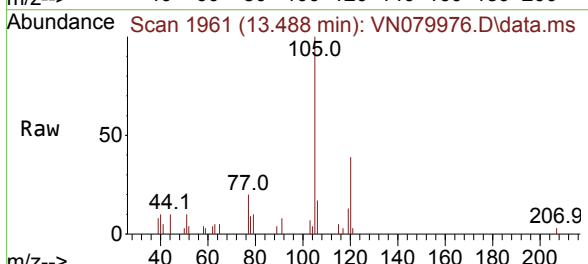
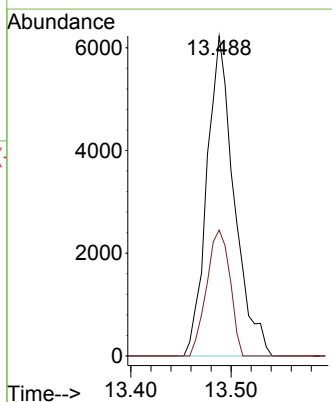


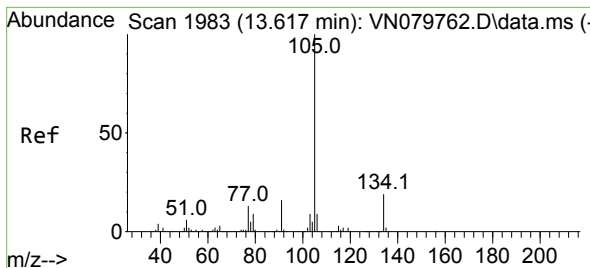
Tgt Ion: 75 Resp: 144567
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.789 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.006 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

Tgt Ion: 105 Resp: 11774
 Ion Ratio Lower Upper
 105 100
 120 33.7 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.685 ug/l

RT: 13.488 min Scan# 1983

Delta R.T. -0.129 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

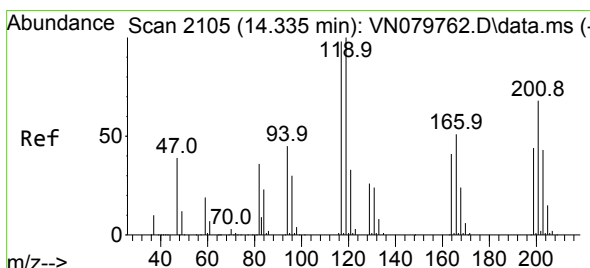
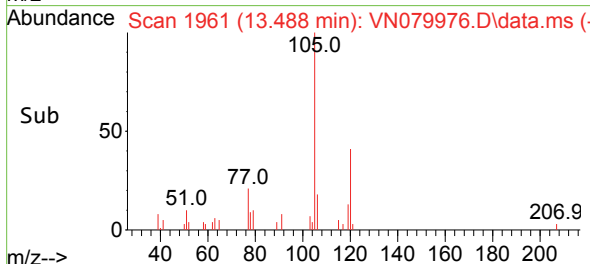
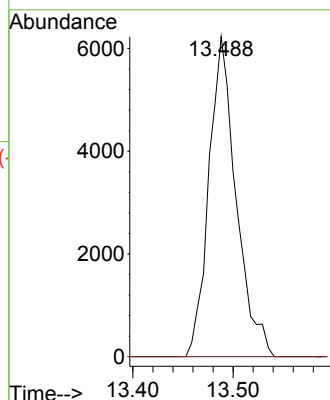
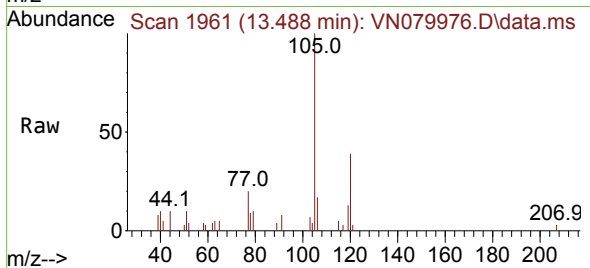
ClientSampleId :

Tgt Ion:105 Resp: 11774

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#



#90

Hexachloroethane

Concen: 0.228 ug/l

RT: 14.459 min Scan# 2126

Delta R.T. 0.124 min

Lab File: VN079976.D

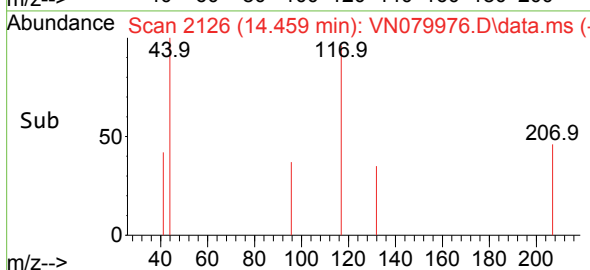
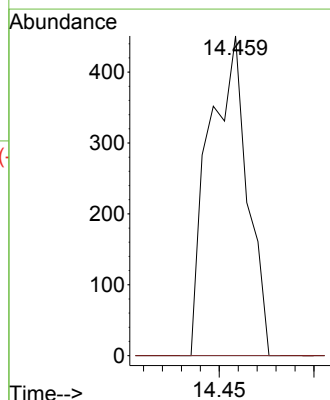
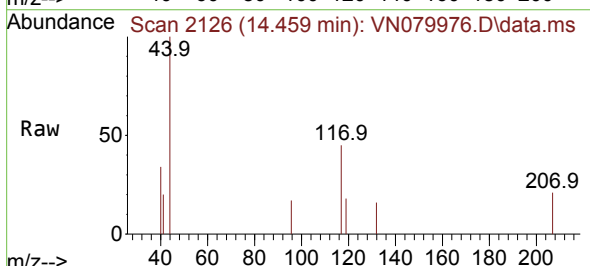
Acq: 07 Nov 2023 19:46

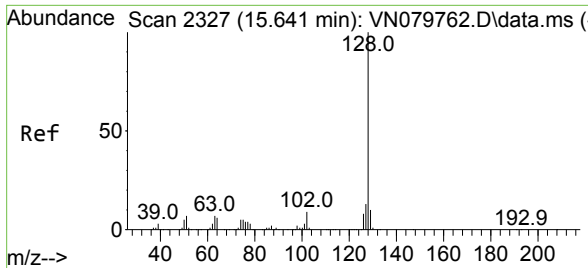
Tgt Ion:117 Resp: 633

Ion Ratio Lower Upper

117 100

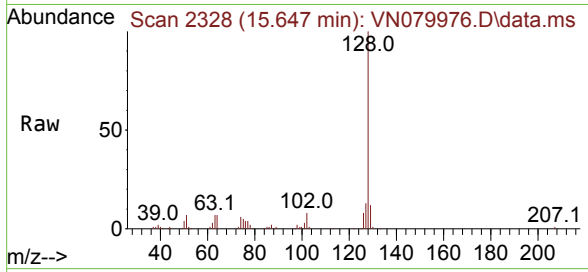
201 0.0 29.3 88.0#





#95
 Naphthalene
 Concen: 15.593 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 210632

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.0	15.0
129	11.4	8.7	13.1

