

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101023\
 Data File : VN079500.D
 Acq On : 10 Oct 2023 18:01
 Operator : JC\MD
 Sample : 04817-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 11 06:22:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

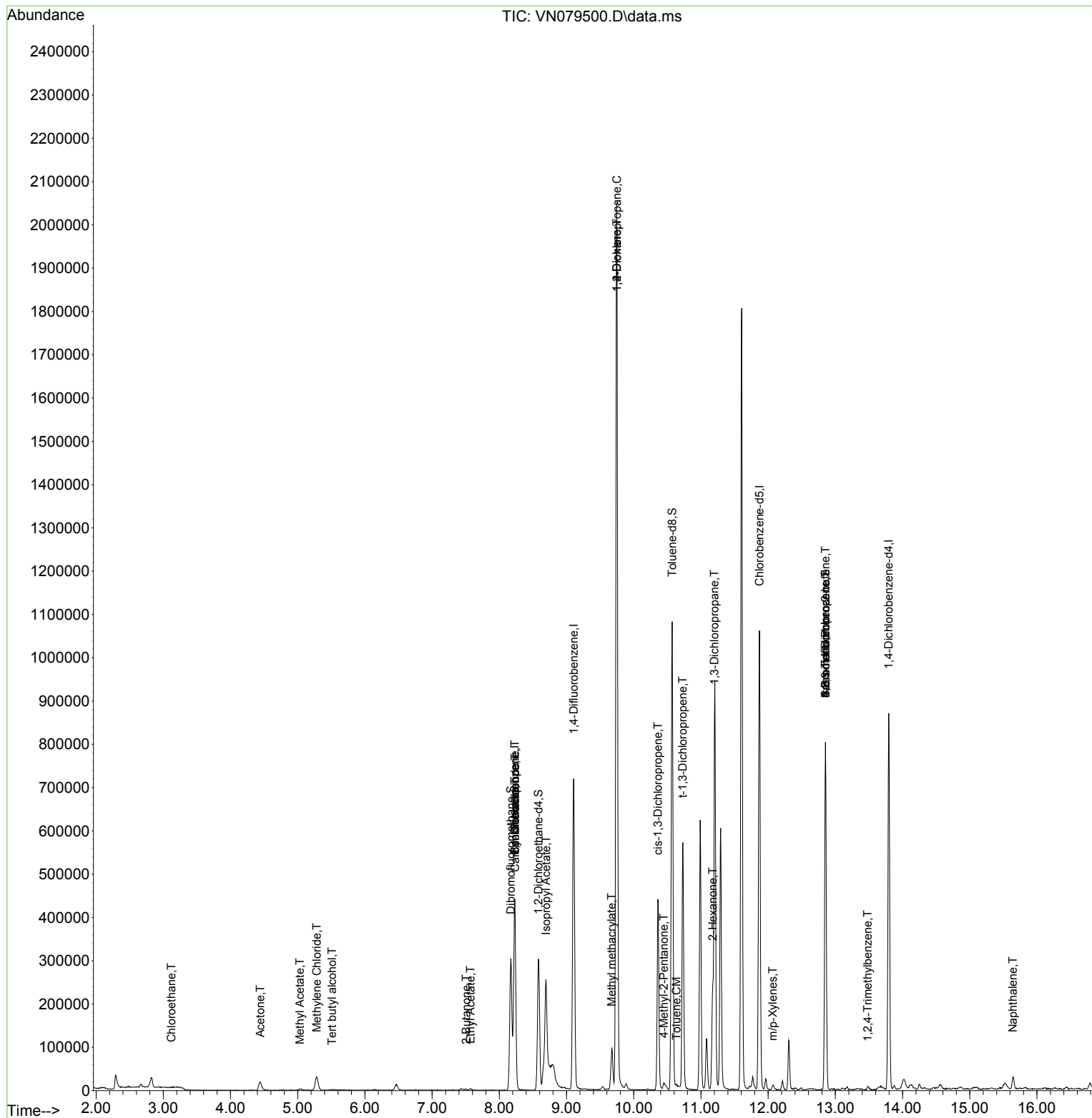
Internal Standards						
1) Pentafluorobenzene	8.230	168	314040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	617291	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	599439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	228271	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	241335	47.396	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.800%		
35) Dibromofluoromethane	8.171	113	212617	47.929	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.860%		
50) Toluene-d8	10.571	98	734728	45.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.540%		
62) 4-Bromofluorobenzene	12.853	95	274087	53.209	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.420%		
Target Compounds						Qvalue
6) Chloroethane	3.118	64	1069	0.243	ug/l #	43
11) Tert butyl alcohol	5.512	59	324	0.423	ug/l #	72
16) Acetone	4.442	43	38602	19.113	ug/l #	87
18) Methyl Acetate	5.030	43	2861	0.289	ug/l #	42
20) Methylene Chloride	5.283	84	23317	4.727	ug/l #	86
25) 2-Butanone	7.506	43	4807	1.604	ug/l #	63
31) Cyclohexane	8.230	56	8342	1.155	ug/l #	41
36) 1,1-Dichloropropene	8.230	75	28659	4.305	ug/l #	48
37) Ethyl Acetate	7.571	43	5592	0.844	ug/l #	77
38) Carbon Tetrachloride	8.236	117	34285	5.144	ug/l #	16
43) Isopropyl Acetate	8.694	43	346519	29.856	ug/l #	71
45) 1,2-Dichloropropane	9.747	63	2349	0.451	ug/l #	45
48) Methyl methacrylate	9.671	41	5912	1.189	ug/l #	3
49) 1,4-Dioxane	9.747	88	61	0.666	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	19352	2.954	ug/l #	65
52) Toluene	10.635	92	3268	0.281	ug/l	94
53) t-1,3-Dichloropropene	10.730	75	1847	0.264	ug/l #	1
54) cis-1,3-Dichloropropene	10.359	75	78170	10.209	ug/l #	67
57) 1,3-Dichloropropane	11.200	76	9728	1.206	ug/l #	42
59) 2-Hexanone	11.177	43	175060	37.027	ug/l #	19
68) m/p-Xylenes	12.071	106	3003	0.356	ug/l	90
71) Bromoform	12.853	173	2066	0.578	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.982	83	144	Below Cal	#	29
76) 1,2,3-Trichloropropane	12.853	75	149672	22.741	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	149672	65.983	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.482	105	5459	0.342	ug/l	81
90) Hexachloroethane	14.335	117	268	Below Cal	#	21
95) Naphthalene	15.641	128	25346	3.327	ug/l	98

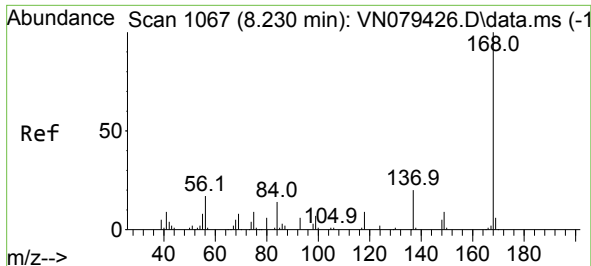
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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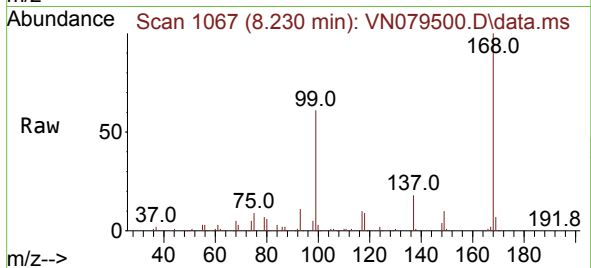
Quant Time: Oct 11 06:22:07 2023
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Quant Title : SW846 8260
QLast Update : Fri Oct 06 03:34:49 2023
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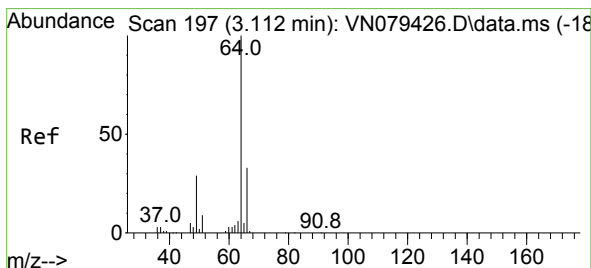
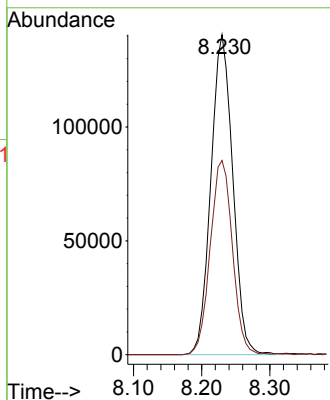
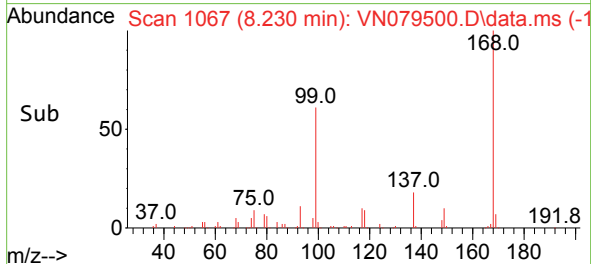


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Instrument :
MSVOA_N
ClientSampleId :

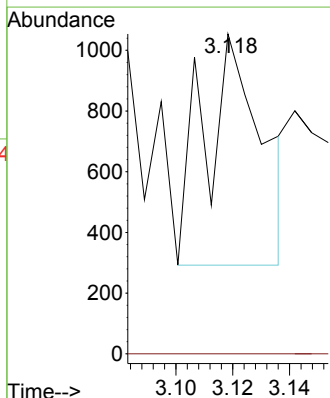
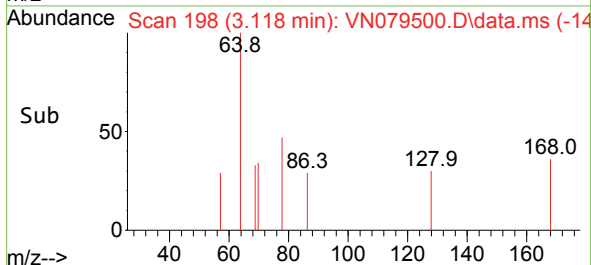
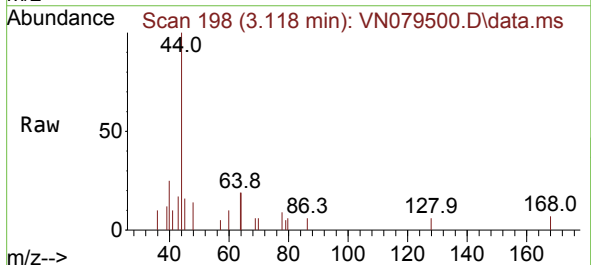


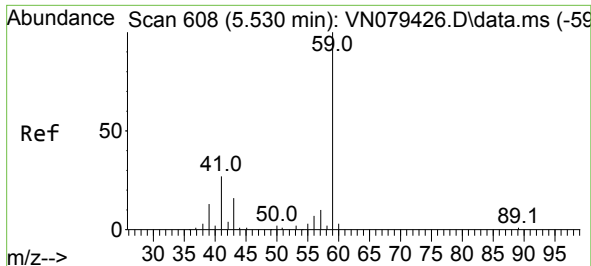
Tgt Ion:168 Resp: 314040
Ion Ratio Lower Upper
168 100
99 60.7 53.0 79.6



#6
Chloroethane
Concen: 0.243 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

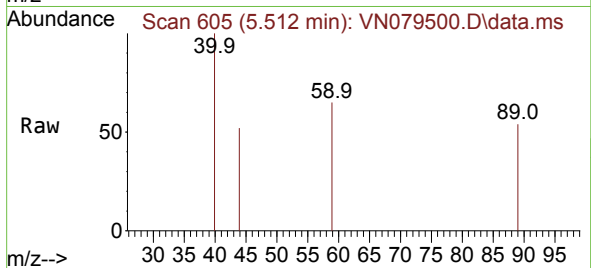
Tgt Ion: 64 Resp: 1069
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



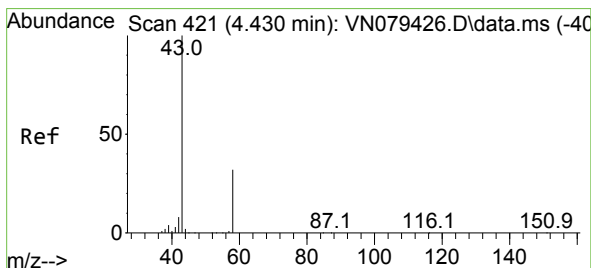
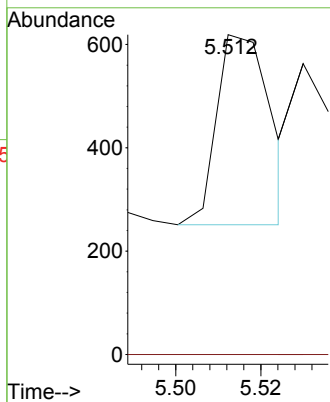
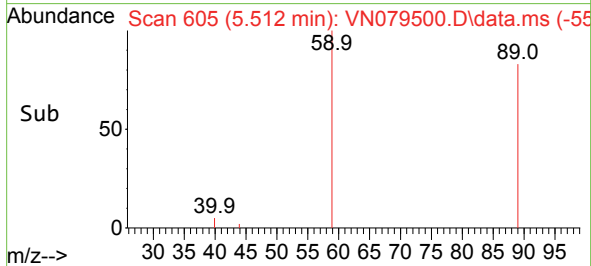


#11
Tert butyl alcohol
Concen: 0.423 ug/l
RT: 5.512 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Instrument :
MSVOA_N
ClientSampleId :

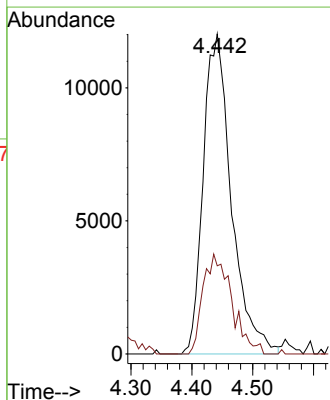
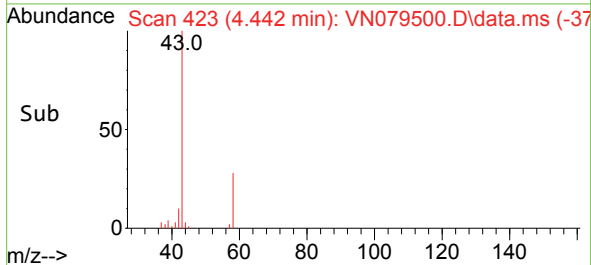
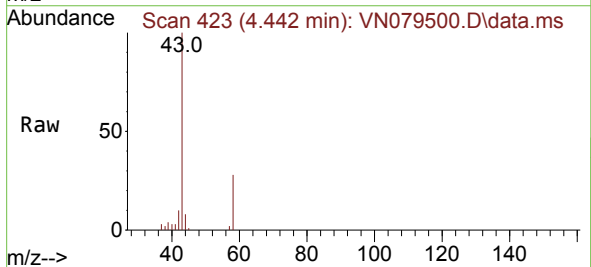


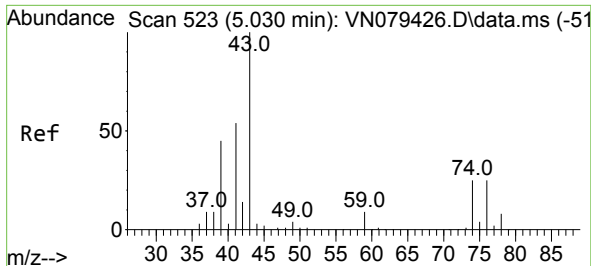
Tgt Ion: 59 Resp: 324
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 19.113 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 43 Resp: 38602
Ion Ratio Lower Upper
43 100
58 27.5 28.0 42.0#

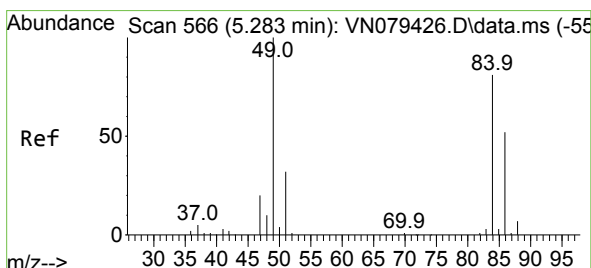
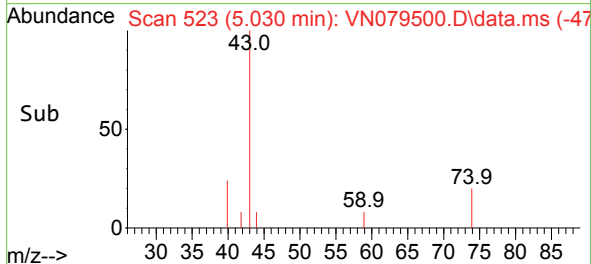
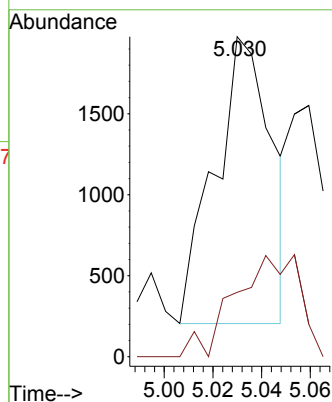
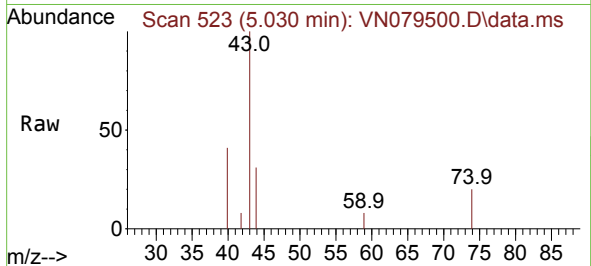




#18
Methyl Acetate
Concen: 0.289 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

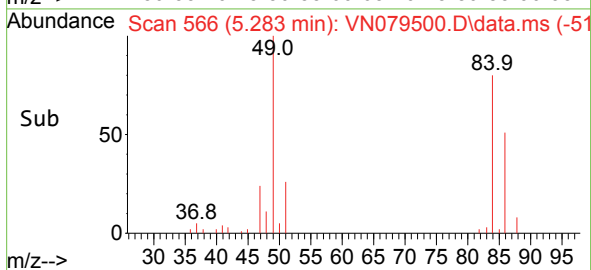
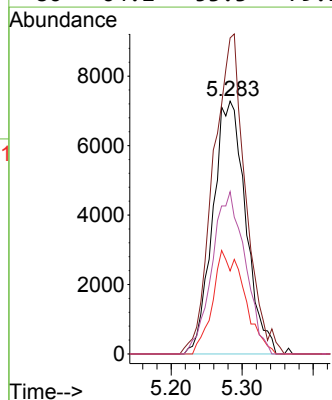
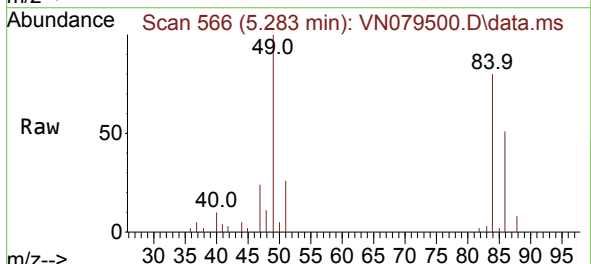
Instrument :
MSVOA_N
ClientSampleId :

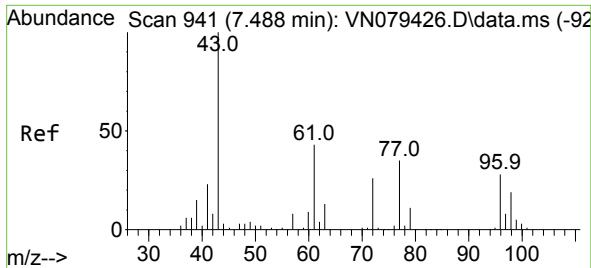
Tgt Ion: 43 Resp: 2861
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#20
Methylene Chloride
Concen: 4.727 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 84 Resp: 23317
Ion Ratio Lower Upper
84 100
49 125.1 79.7 119.5#
51 32.9 25.2 37.8
86 64.2 53.3 79.9

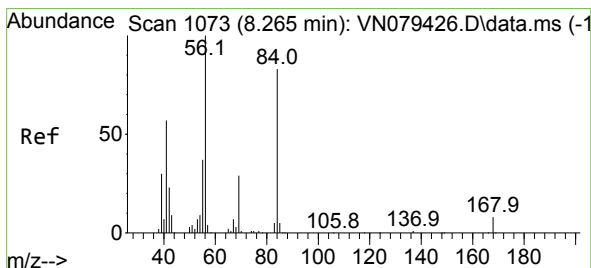
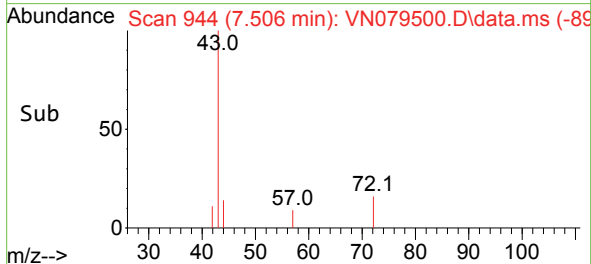
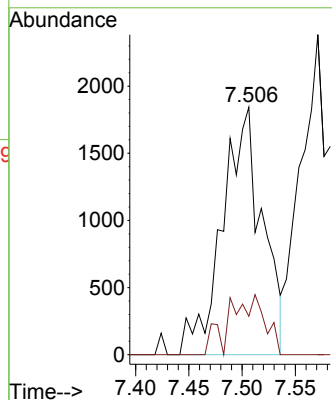
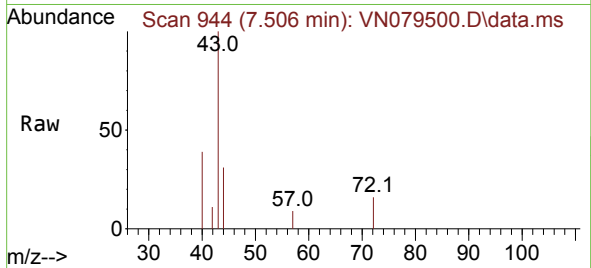




#25
2-Butanone
Concen: 1.604 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

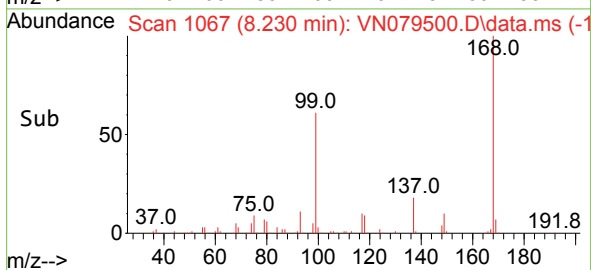
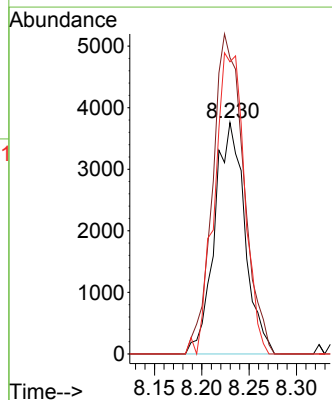
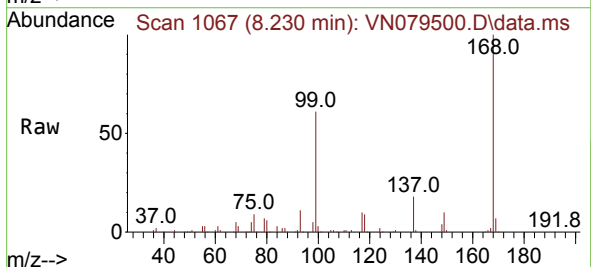
Instrument :
MSVOA_N
ClientSampleId :

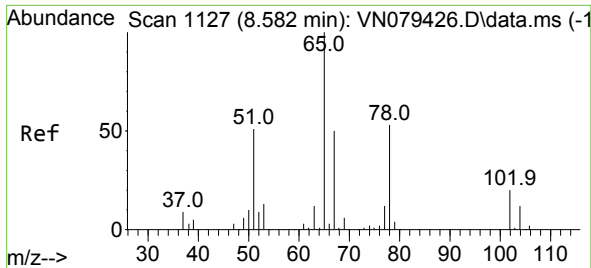
Tgt Ion: 43 Resp: 4807
Ion Ratio Lower Upper
43 100
72 15.5 30.2 45.2#



#31
Cyclohexane
Concen: 1.155 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 56 Resp: 8342
Ion Ratio Lower Upper
56 100
69 128.1 26.8 40.2#
84 126.3 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 47.396 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

Instrument :

MSVOA_N

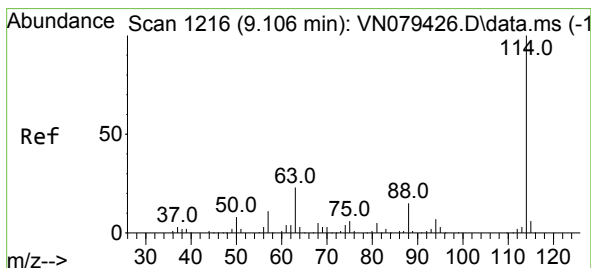
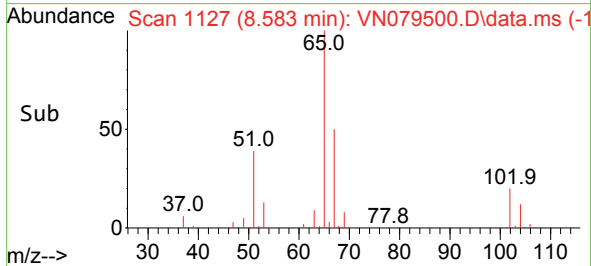
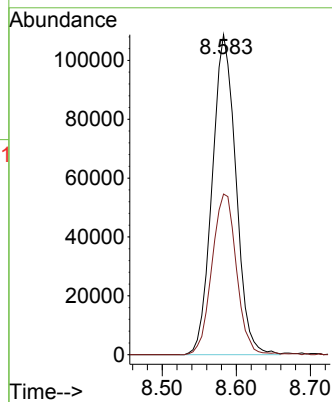
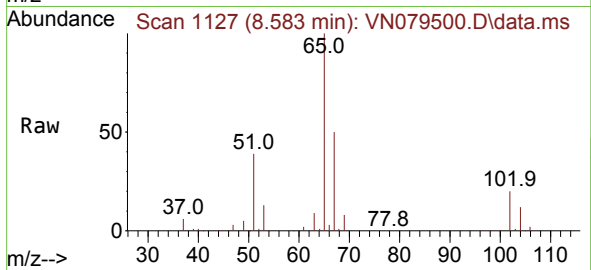
ClientSampleId :

Tgt Ion: 65 Resp: 241335

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

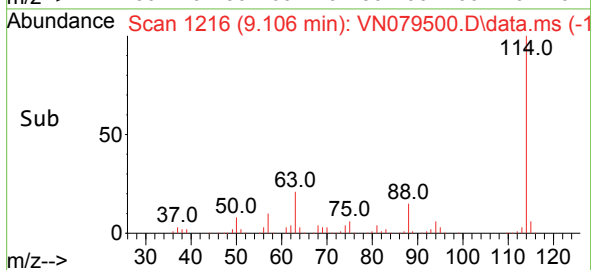
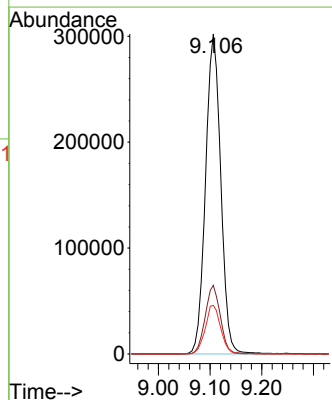
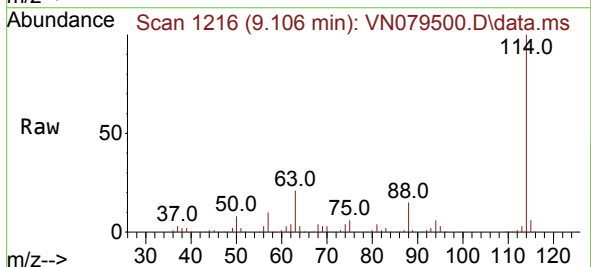
Tgt Ion: 114 Resp: 617291

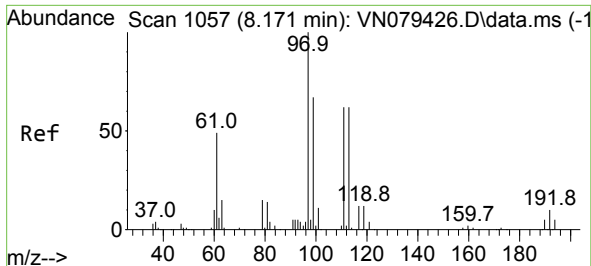
Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.4

88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 47.929 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

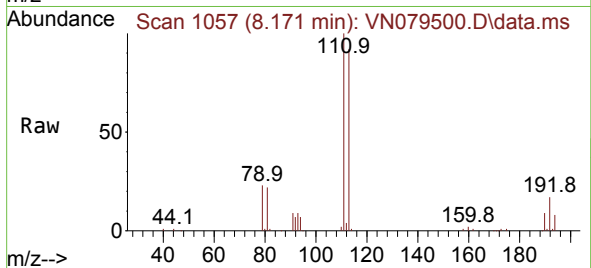
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Acq: 10 Oct 2023 18:01

Instrument :

MSVOA_N

ClientSampleId :



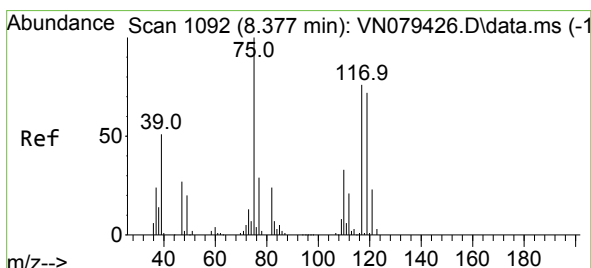
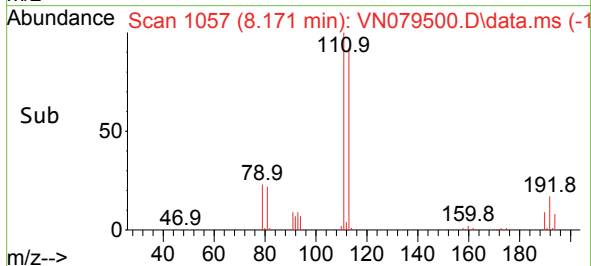
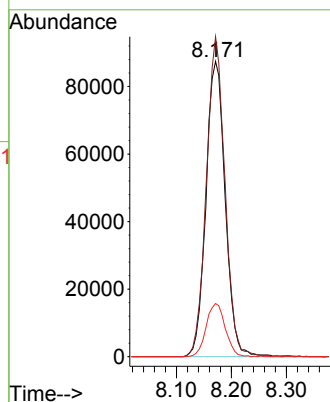
Tgt Ion:113 Resp: 212617

Ion Ratio Lower Upper

113 100

111 104.9 82.6 123.8

192 17.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.305 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

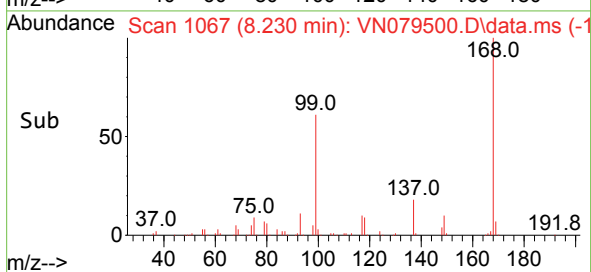
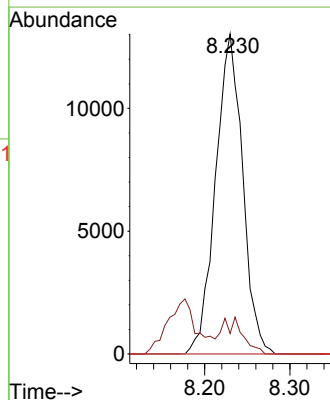
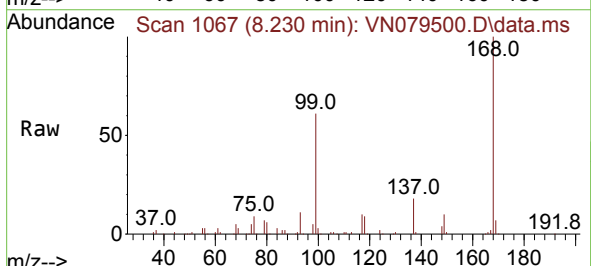
Tgt Ion: 75 Resp: 28659

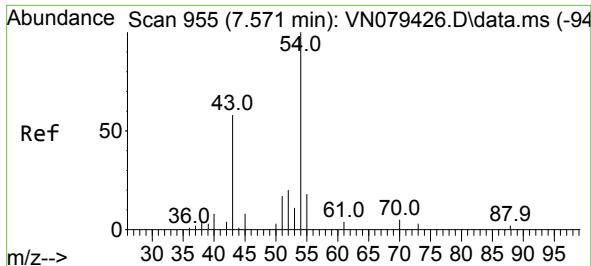
Ion Ratio Lower Upper

75 100

110 8.6 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.844 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.000 min

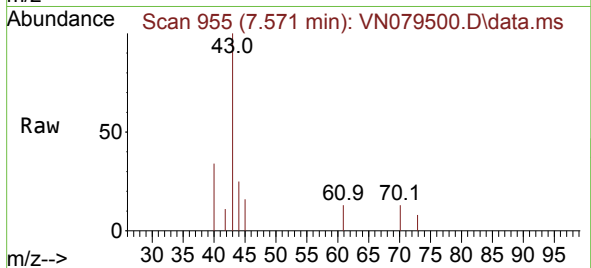
Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

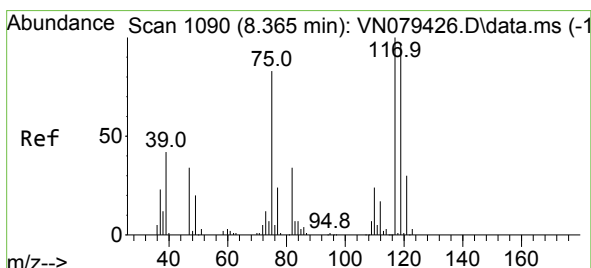
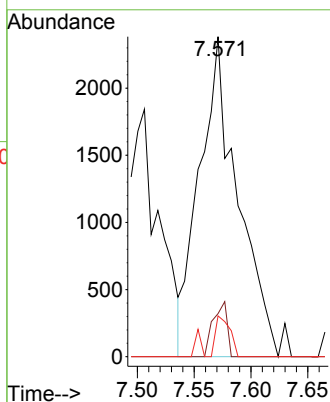
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	5592
Ion	Ratio	Lower	Upper
43	100		
61	6.3	13.2	19.8#
70	4.8	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.144 ug/l

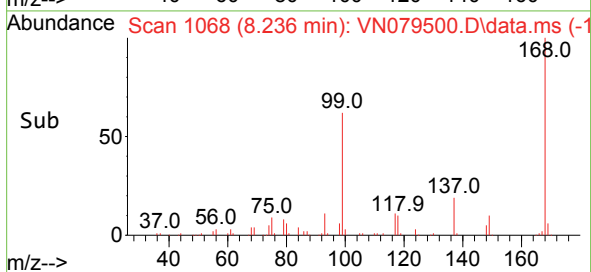
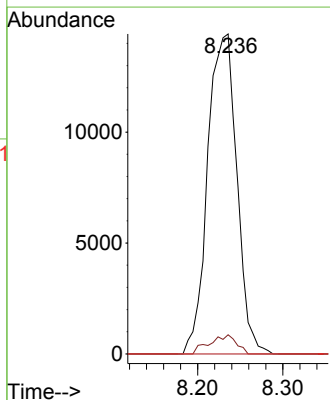
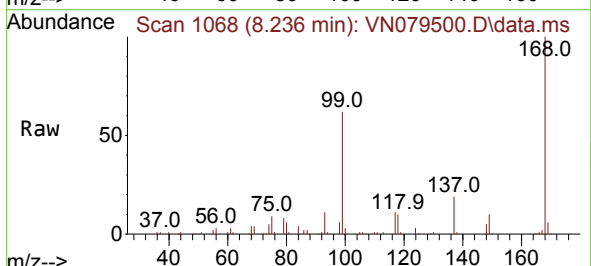
RT: 8.236 min Scan# 1068

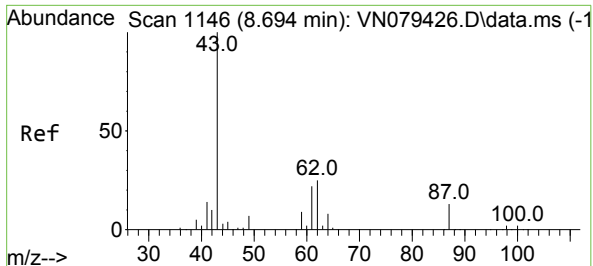
Delta R.T. -0.129 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

Tgt Ion:	117	Resp:	34285
Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.3	115.9#
121	0.0	23.3	34.9#

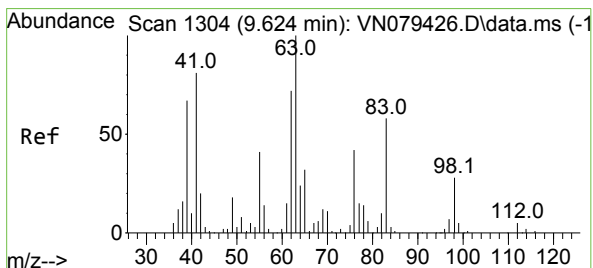
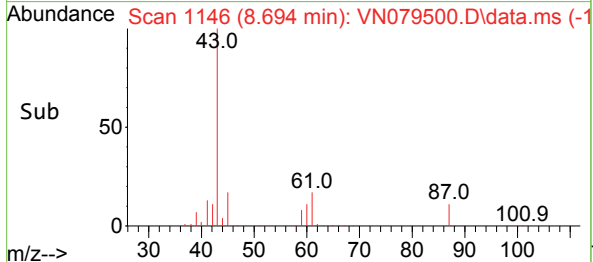
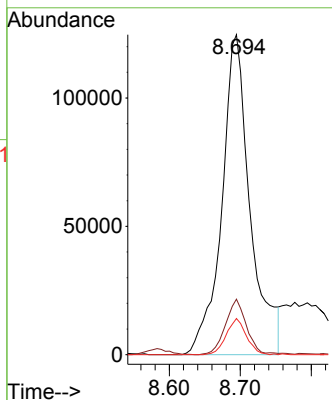
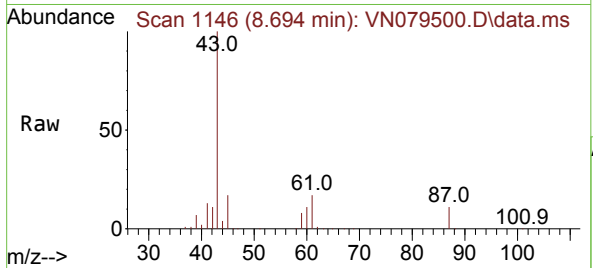




#43
Isopropyl Acetate
Concen: 29.856 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

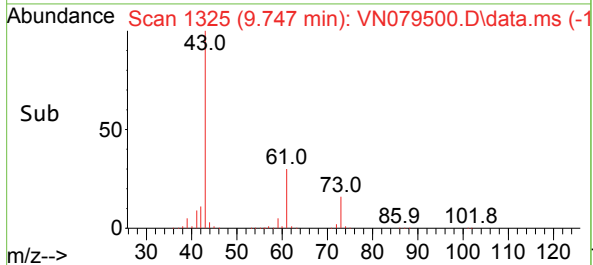
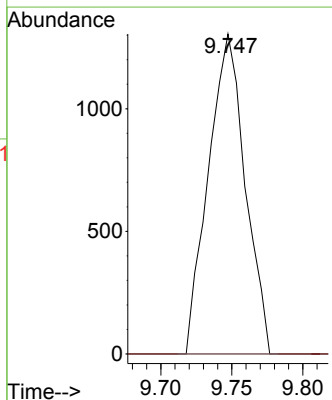
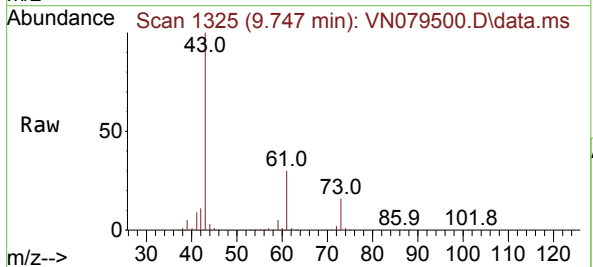
Instrument :
MSVOA_N
ClientSampleId :

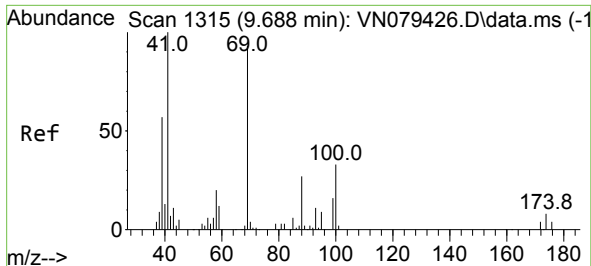
Tgt Ion: 43 Resp: 346519
Ion Ratio Lower Upper
43 100
61 13.1 24.7 37.1#
87 8.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.451 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 63 Resp: 2349
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

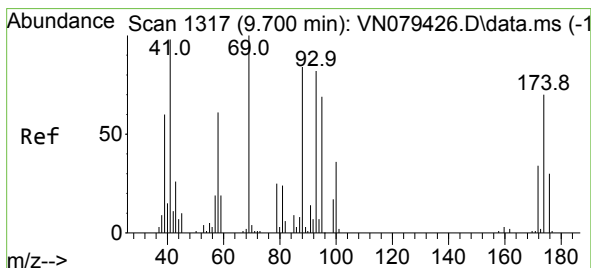
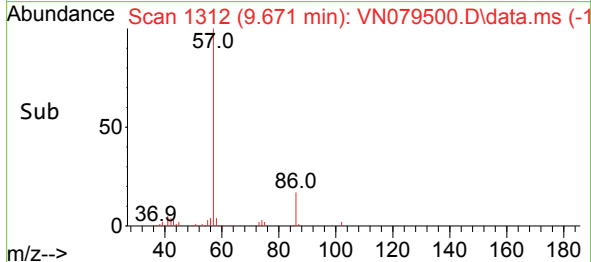
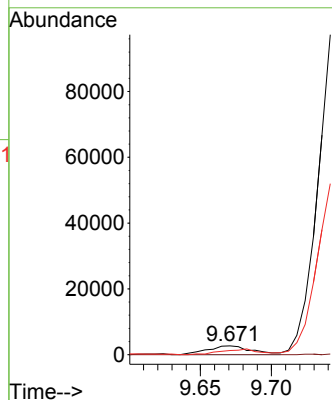
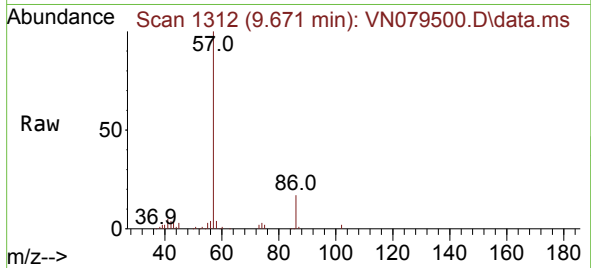




#48
Methyl methacrylate
Concen: 1.189 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

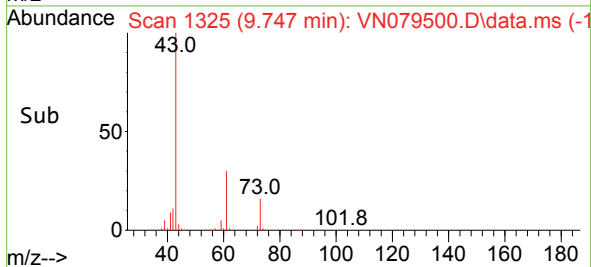
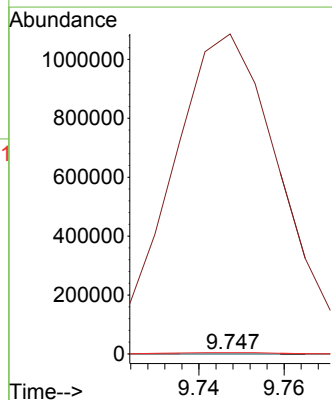
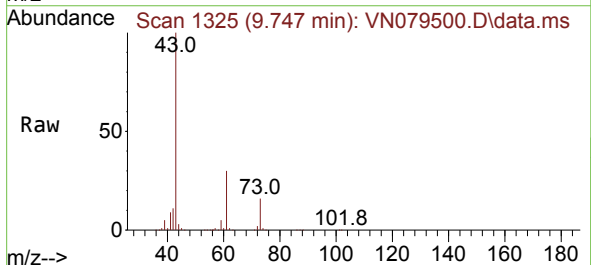
Instrument :
MSVOA_N
ClientSampleId :

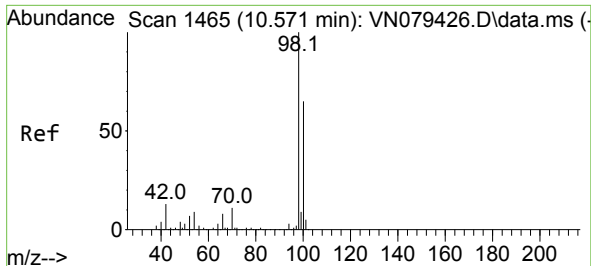
Tgt Ion: 41 Resp: 5912
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.666 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 3264252.5 17.0 25.6#
58 14585.2 47.0 70.4#

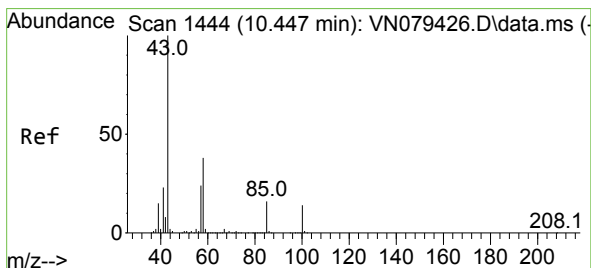
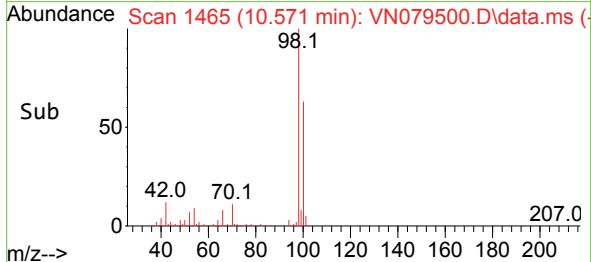
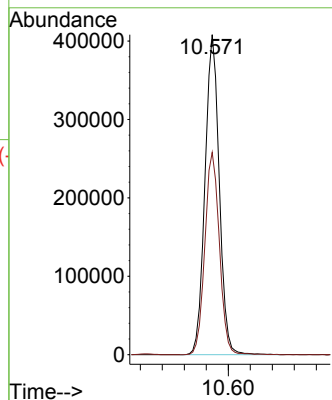
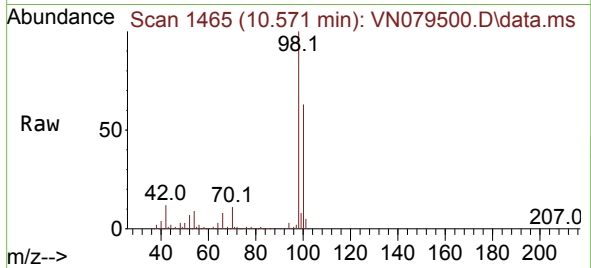




#50
Toluene-d8
Concen: 45.775 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

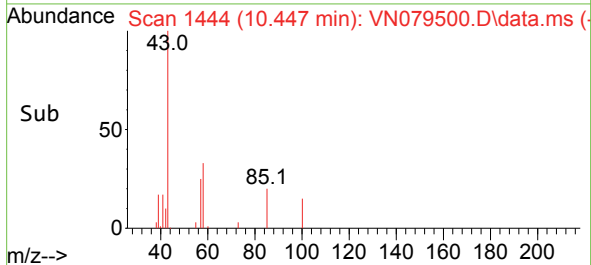
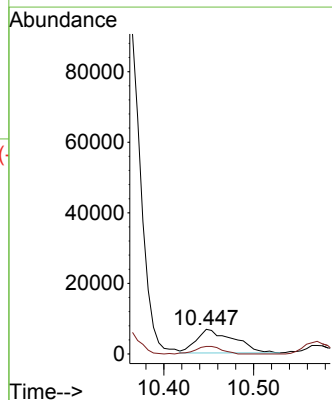
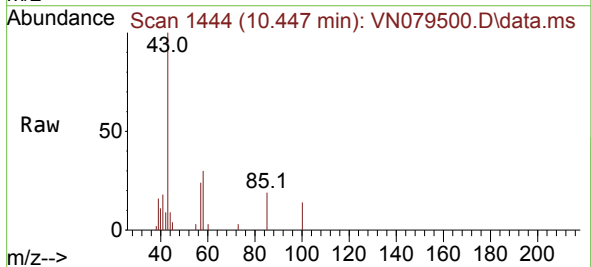
Instrument :
MSVOA_N
ClientSampleId :

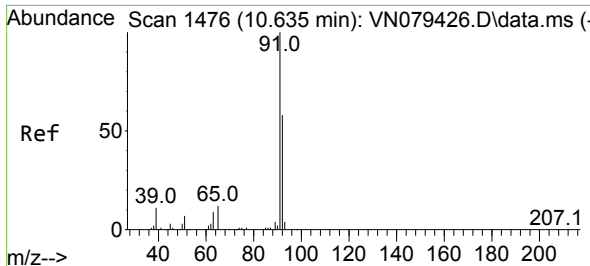
Tgt Ion: 98 Resp: 734728
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.954 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 43 Resp: 19352
Ion Ratio Lower Upper
43 100
58 22.8 36.6 54.8#

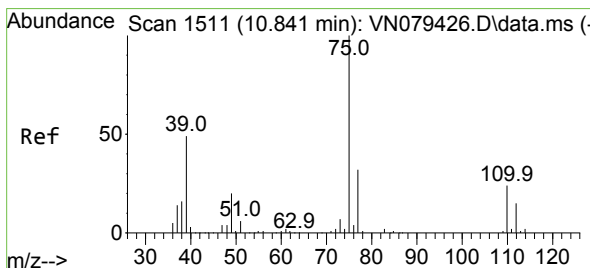
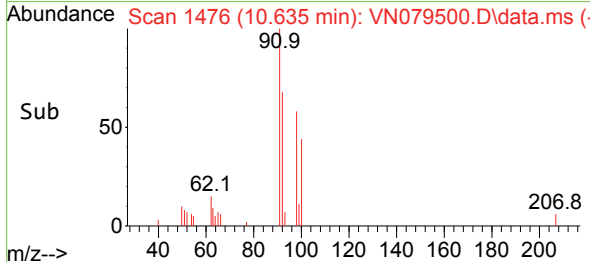
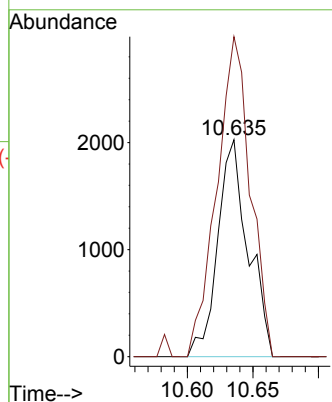
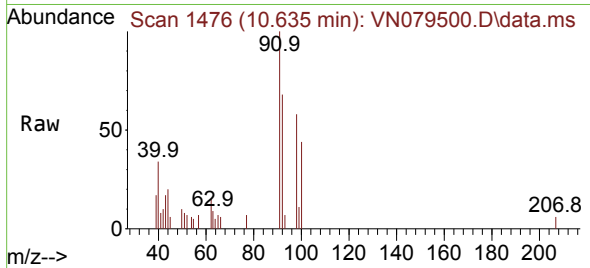




#52
Toluene
Concen: 0.281 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

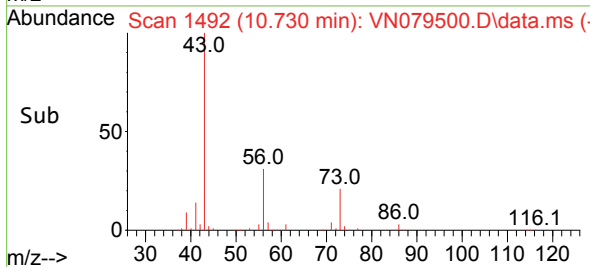
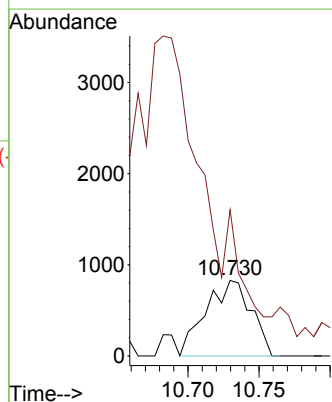
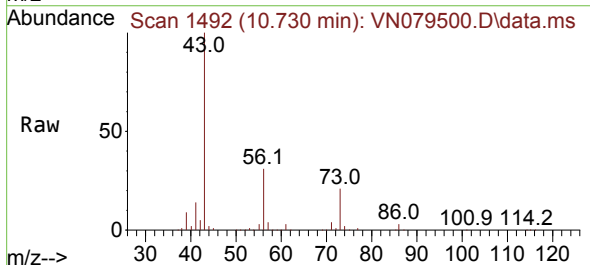
Instrument :
MSVOA_N
ClientSampleId :

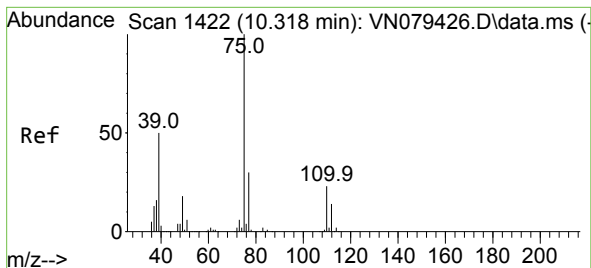
Tgt Ion: 92 Resp: 3268
Ion Ratio Lower Upper
92 100
91 163.0 137.4 206.0



#53
t-1,3-Dichloropropene
Concen: 0.264 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

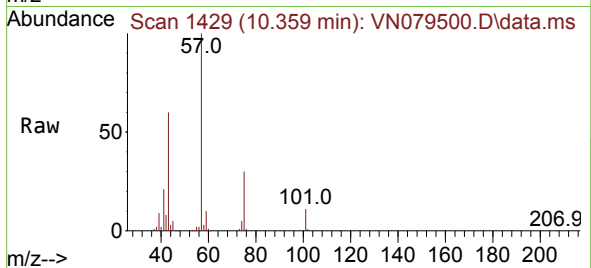
Tgt Ion: 75 Resp: 1847
Ion Ratio Lower Upper
75 100
77 128.8 25.4 38.0#



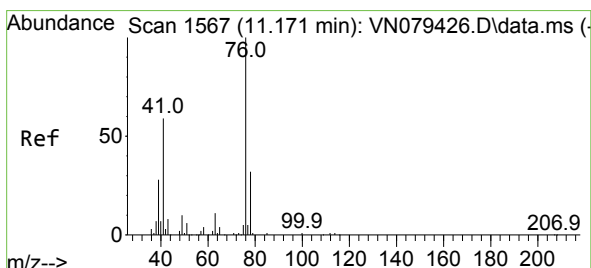
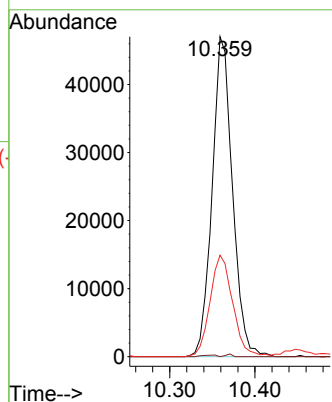
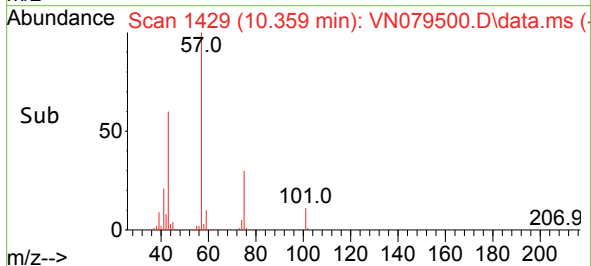


#54
 cis-1,3-Dichloropropene
 Concen: 10.209 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079500.D
 Acq: 10 Oct 2023 18:01

Instrument :
 MSVOA_N
 ClientSampleId :

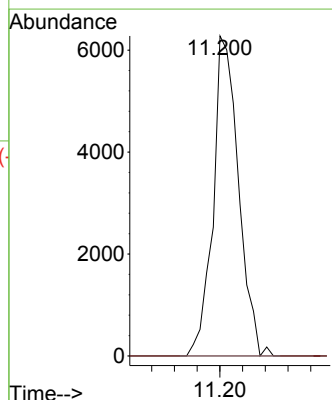
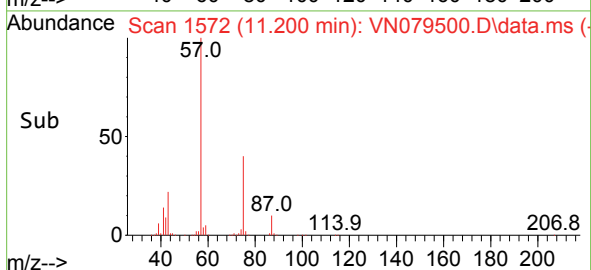
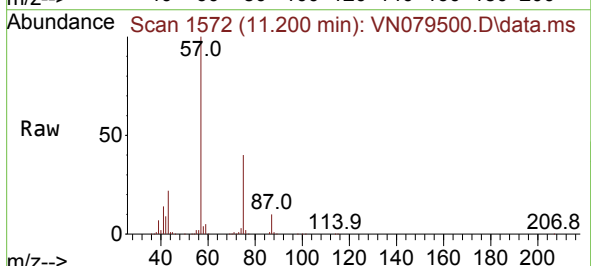


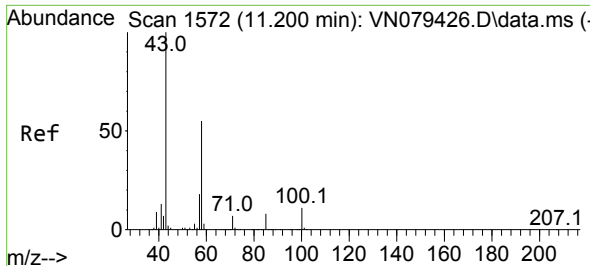
Tgt Ion: 75 Resp: 78170
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 31.7 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.206 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.030 min
 Lab File: VN079500.D
 Acq: 10 Oct 2023 18:01

Tgt Ion: 76 Resp: 9728
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

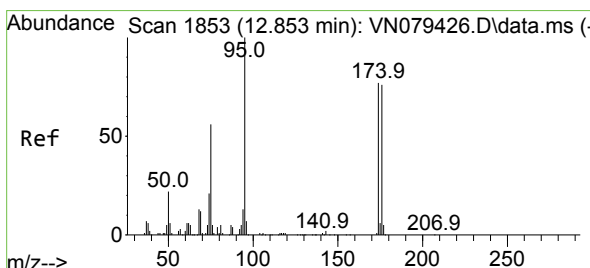
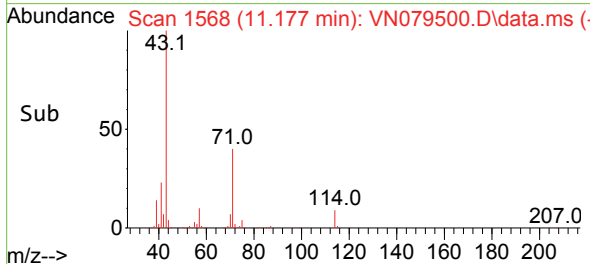
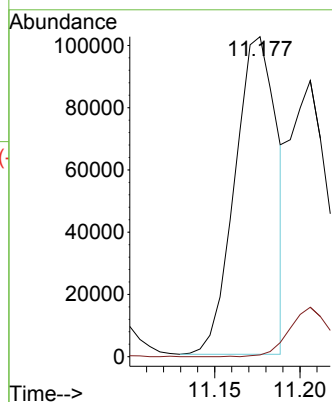
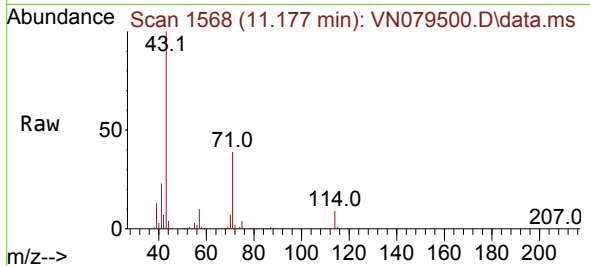




#59
2-Hexanone
Concen: 37.027 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

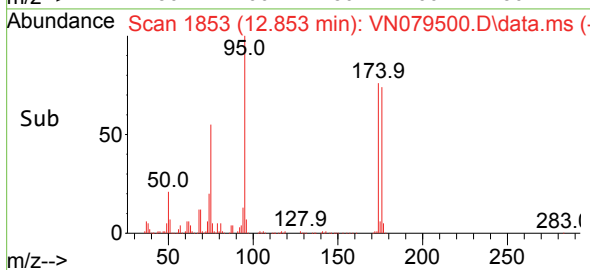
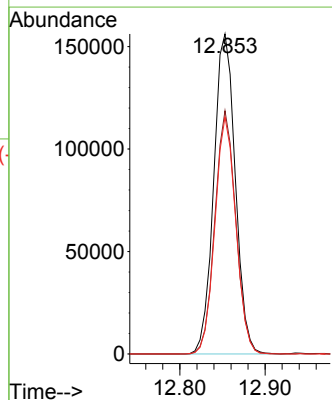
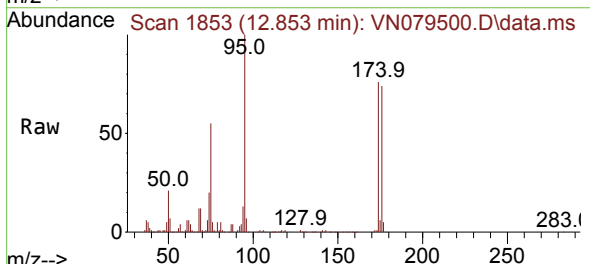
Instrument :
MSVOA_N
ClientSampleId :

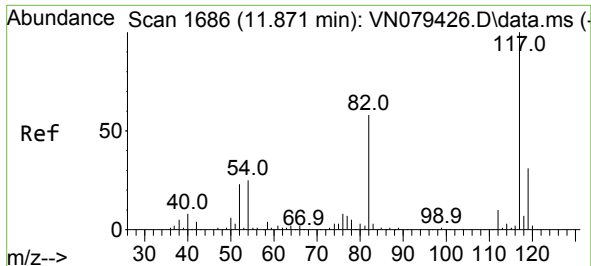
Tgt Ion: 43 Resp: 175060
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 53.209 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion: 95 Resp: 274087
Ion Ratio Lower Upper
95 100
174 74.0 0.0 143.8
176 71.7 0.0 135.8

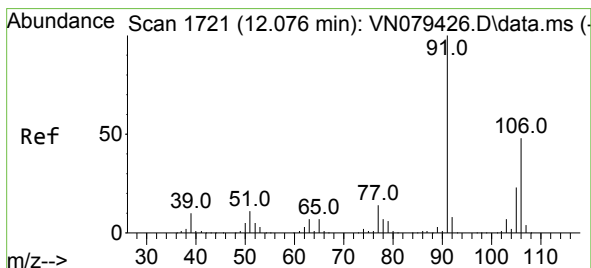
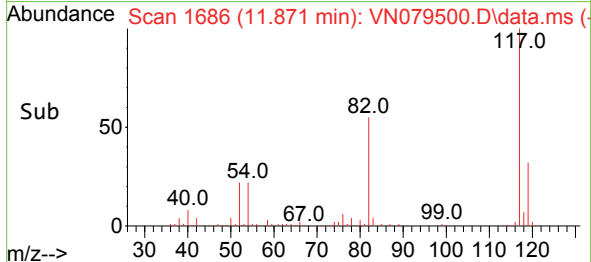
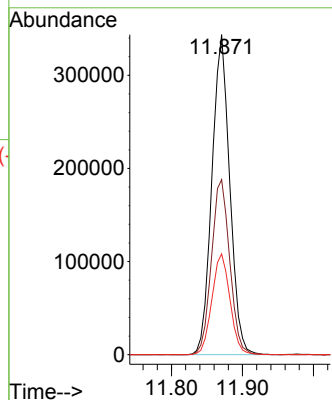
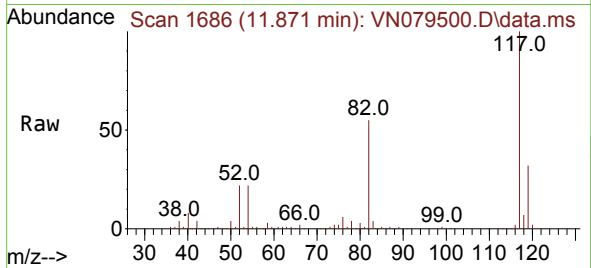




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

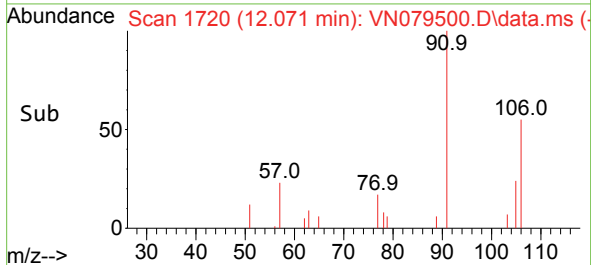
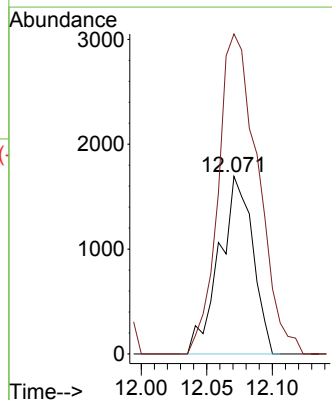
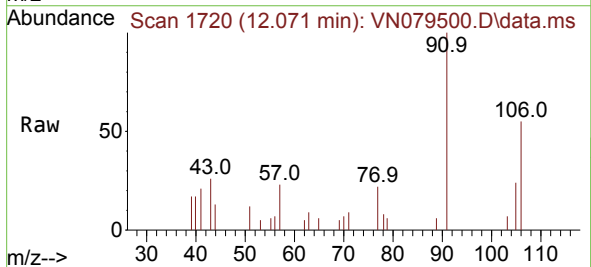
Instrument :
MSVOA_N
ClientSampleId :

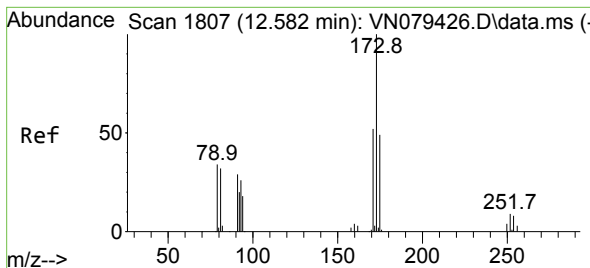
Tgt Ion:117 Resp: 599439
Ion Ratio Lower Upper
117 100
82 54.7 44.0 66.0
119 31.5 25.6 38.4



#68
m/p-Xylenes
Concen: 0.356 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.005 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

Tgt Ion:106 Resp: 3003
Ion Ratio Lower Upper
106 100
91 214.5 159.6 239.4





#71

Bromoform

Concen: 0.578 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

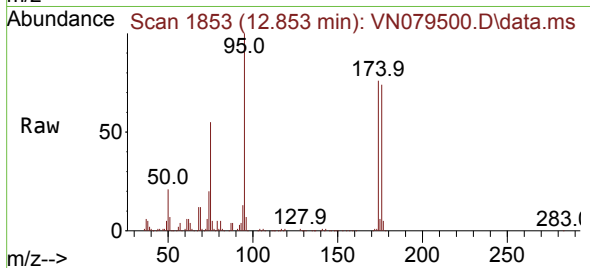
Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

Instrument :

MSVOA_N

ClientSampleId :



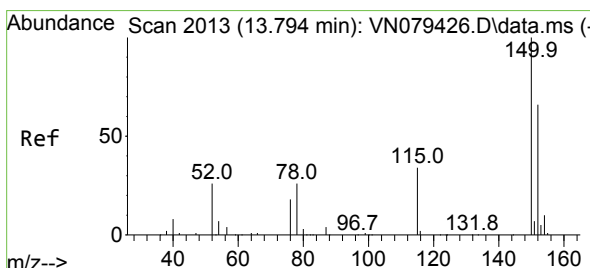
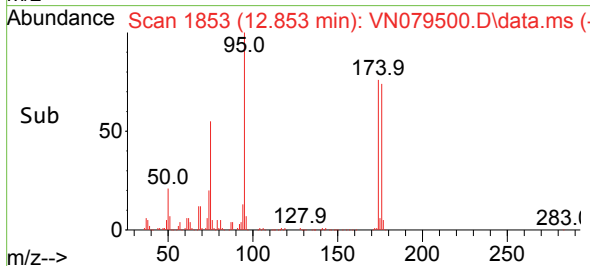
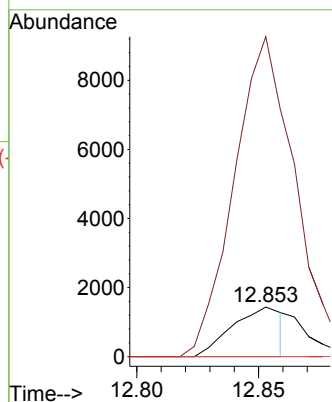
Tgt Ion:173 Resp: 2066

Ion Ratio Lower Upper

173 100

175 599.5 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: VN079500.D

Acq: 10 Oct 2023 18:01

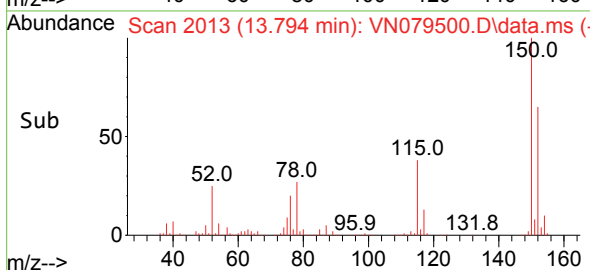
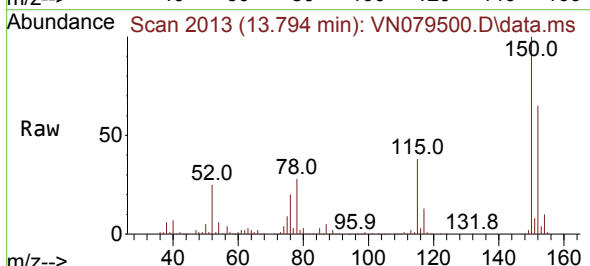
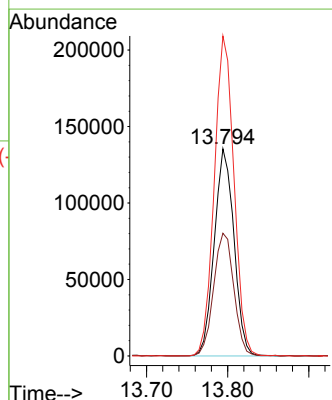
Tgt Ion:152 Resp: 228271

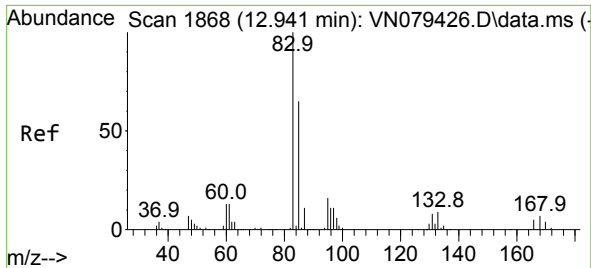
Ion Ratio Lower Upper

152 100

115 61.1 32.3 96.8

150 154.5 0.0 355.8

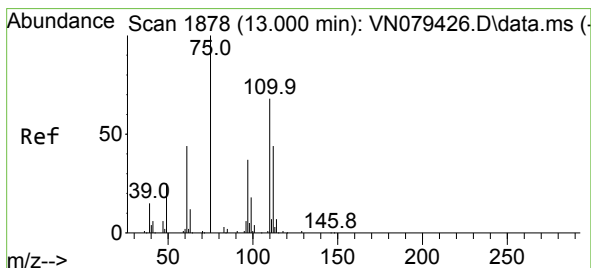
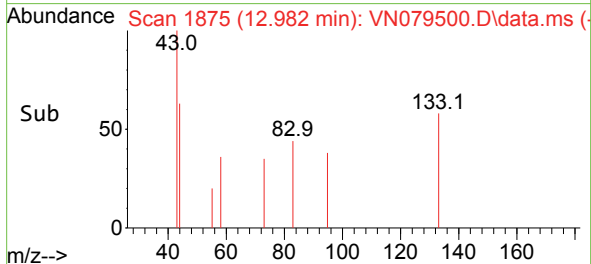
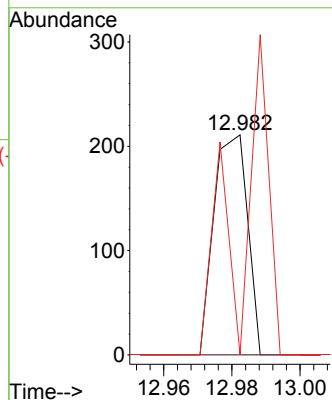
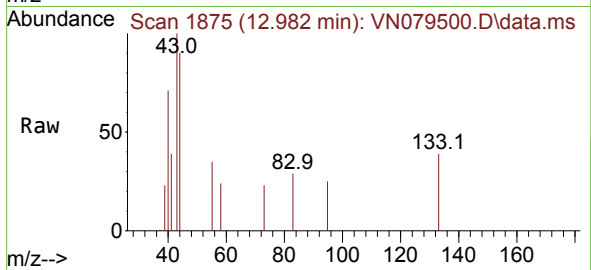




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.982 min Scan# 1875
Delta R.T. 0.041 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

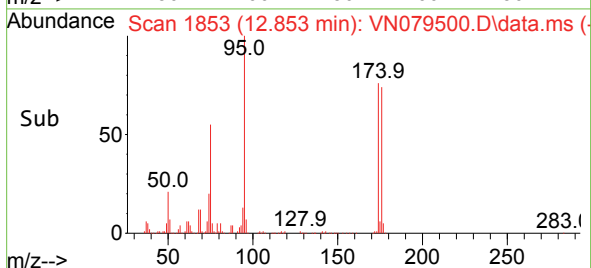
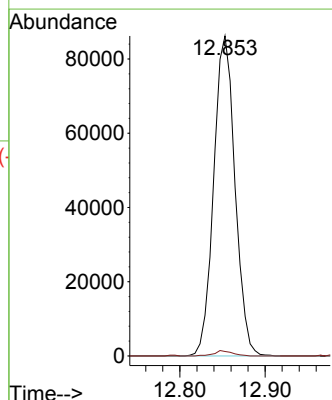
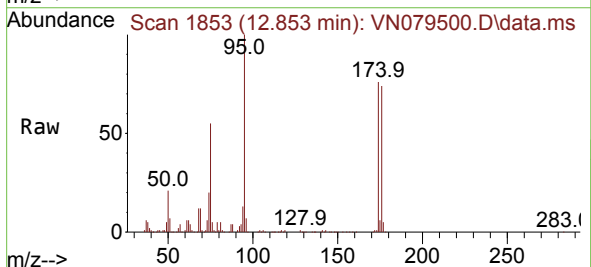
Instrument :
MSVOA_N
ClientSampleId :

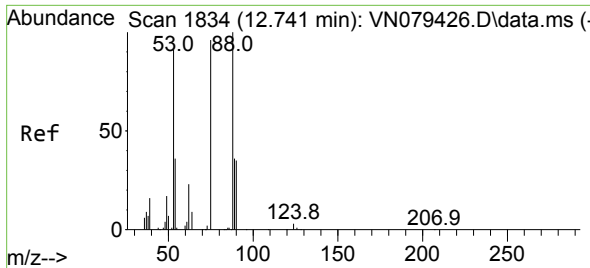
Tgt Ion: 83 Resp: 144
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 125.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 22.741 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079500.D
Acq: 10 Oct 2023 18:01

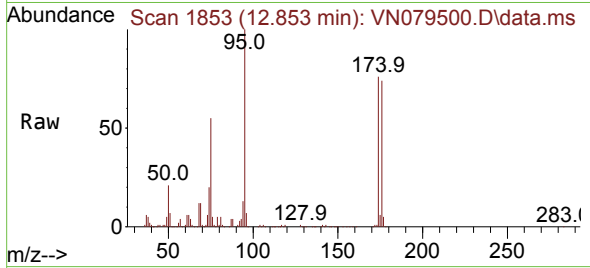
Tgt Ion: 75 Resp: 149672
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



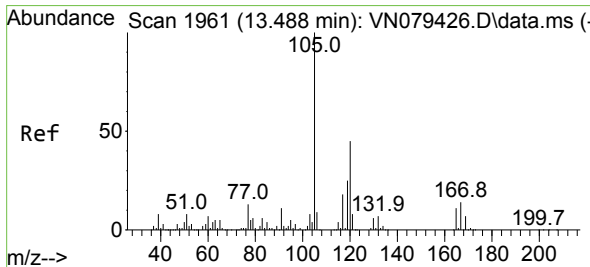
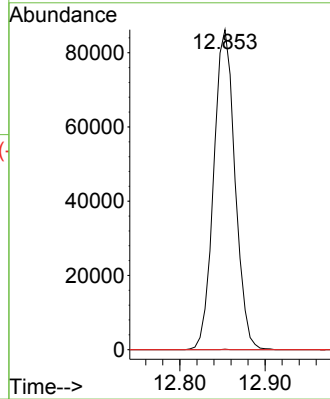
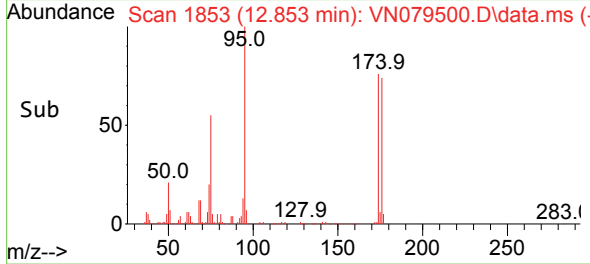


#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.983 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079500.D
 Acq: 10 Oct 2023 18:01

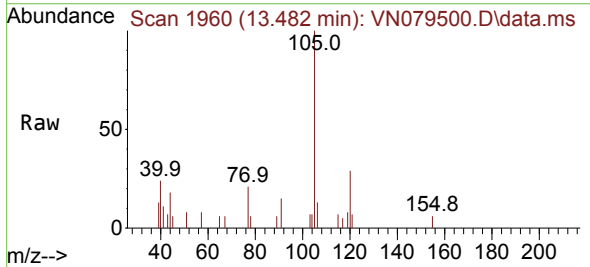
Instrument :
 MSVOA_N
 ClientSampleId :



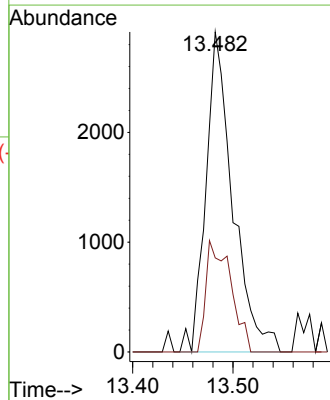
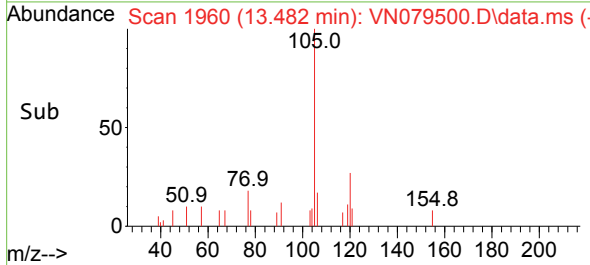
Tgt Ion: 75 Resp: 149672
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

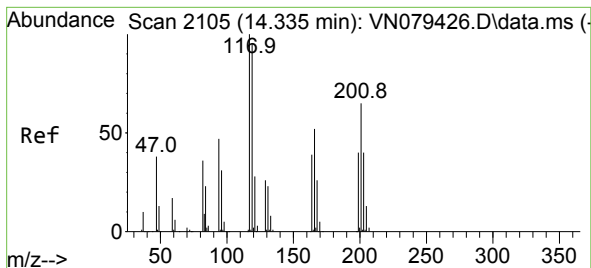


#84
 1,2,4-Trimethylbenzene
 Concen: 0.342 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.006 min
 Lab File: VN079500.D
 Acq: 10 Oct 2023 18:01



Tgt Ion: 105 Resp: 5459
 Ion Ratio Lower Upper
 105 100
 120 31.9 22.0 66.0





#90

Hexachloroethane

Concen: Below Cal

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

Instrument :

MSVOA_N

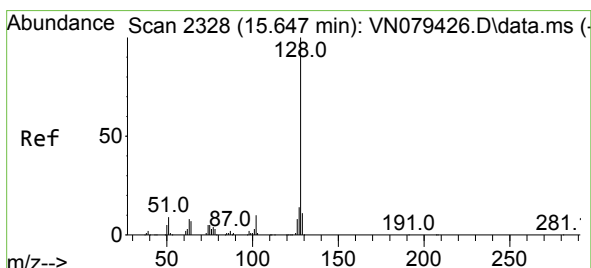
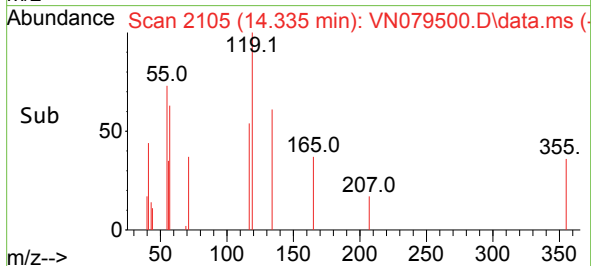
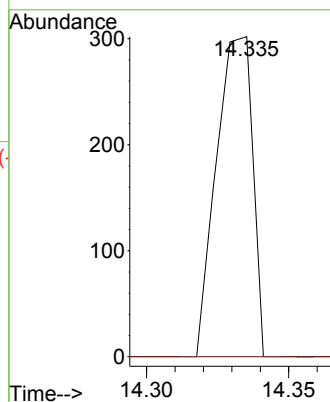
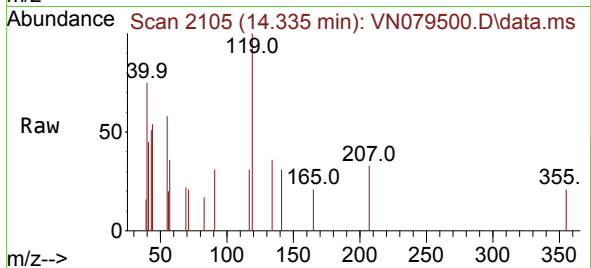
ClientSampleId :

Tgt Ion:117 Resp: 268

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#95

Naphthalene

Concen: 3.327 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN079500.D

Acq: 10 Oct 2023 18:01

Tgt Ion:128 Resp: 25346

Ion Ratio Lower Upper

128 100

127 13.2 10.0 15.0

129 11.7 8.7 13.1

