

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093023\
 Data File : VN079388.D
 Acq On : 30 Sep 2023 15:46
 Operator : JC\MD
 Sample : PB155992ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

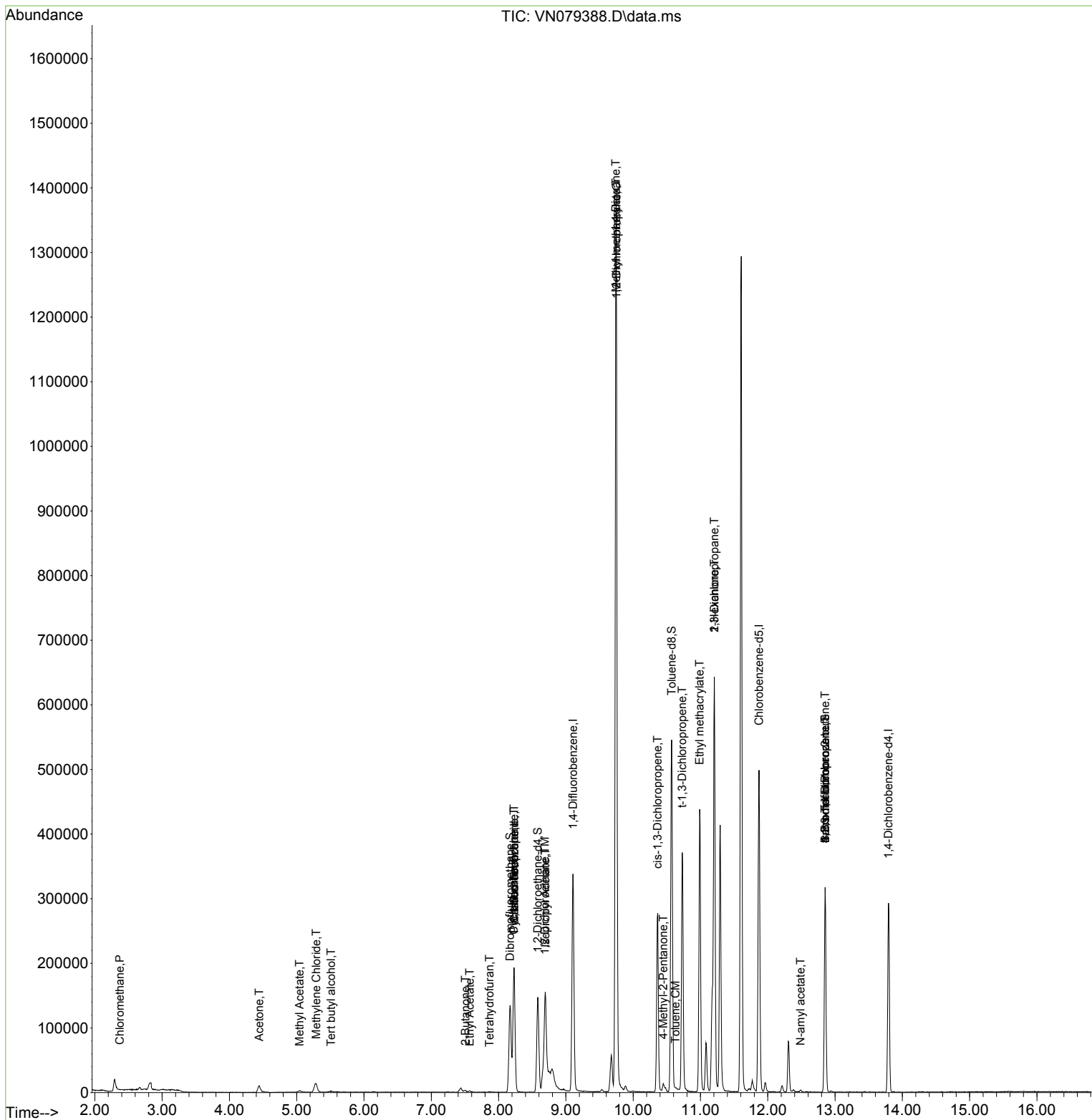
Quant Time: Oct 02 01:56:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

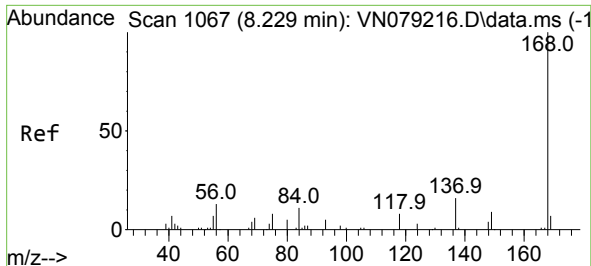
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	131508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	279865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	279655	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	77466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	118665	66.845	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 133.680%#			
35) Dibromofluoromethane	8.171	113	96895	52.049	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.100%			
50) Toluene-d8	10.571	98	366786	53.659	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.320%			
62) 4-Bromofluorobenzene	12.853	95	104586	47.966	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.940%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	512	0.300	ug/l #	87
6) Chloroethane	3.124	64	126	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	1358	4.143	ug/l #	72
16) Acetone	4.442	43	19274	25.564	ug/l	93
18) Methyl Acetate	5.042	43	4462	1.440	ug/l #	75
20) Methylene Chloride	5.289	84	10972	5.980	ug/l #	90
25) 2-Butanone	7.506	43	4539	4.149	ug/l #	83
29) Tetrahydrofuran	7.865	42	455	0.654	ug/l #	46
31) Cyclohexane	8.224	56	3807	1.469	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	12279	4.279	ug/l #	49
37) Ethyl Acetate	7.571	43	3681	1.286	ug/l #	70
38) Carbon Tetrachloride	8.230	117	14845	4.999	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	667	0.221	ug/l #	73
43) Isopropyl Acetate	8.694	43	215653	46.179	ug/l #	69
45) 1,2-Dichloropropane	9.753	63	1423	0.653	ug/l #	45
48) Methyl methacrylate	9.747	41	125869	60.173	ug/l #	30
49) 1,4-Dioxane	9.741	88	75	1.743	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	7909	2.917	ug/l	91
52) Toluene	10.629	92	2108	0.390	ug/l	98
53) t-1,3-Dichloropropene	10.729	75	982	0.307	ug/l	97
54) cis-1,3-Dichloropropene	10.365	75	45997	13.455	ug/l #	71
56) Ethyl methacrylate	10.988	69	2481	0.830	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6354	1.735	ug/l #	42
59) 2-Hexanone	11.206	43	79872	40.679	ug/l #	49
71) Bromoform	12.853	173	1052	0.600	ug/l #	1
74) N-amyl acetate	12.488	43	1943	0.727	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	58537	28.038	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	58537	77.081	ug/l #	15

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

Quant Time: Oct 02 01:56:59 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 12 05:05:24 2023
Response via : Initial Calibration

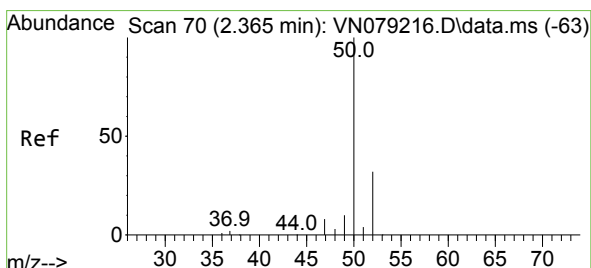
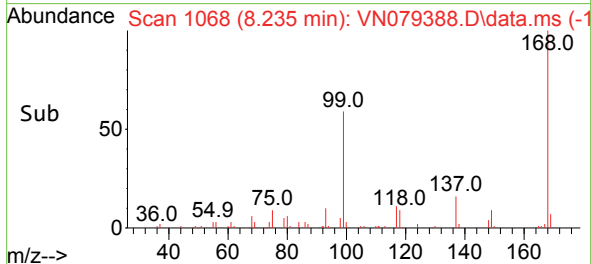
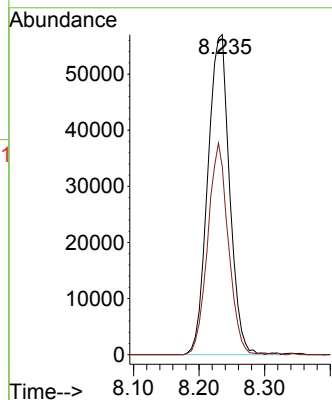
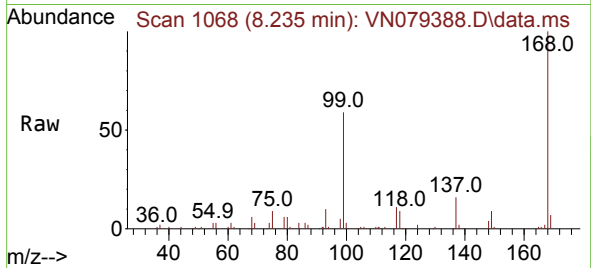




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

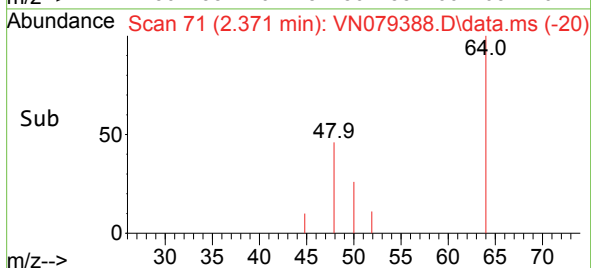
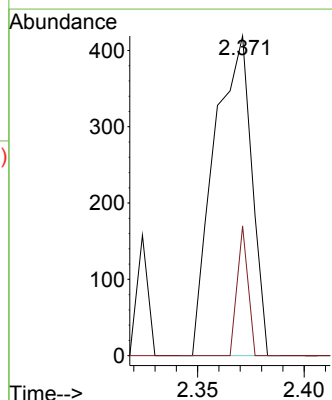
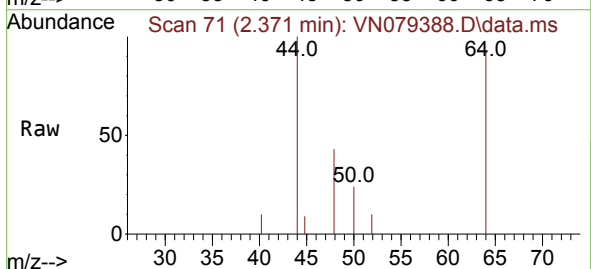
Instrument :
MSVOA_N
ClientSampleId :

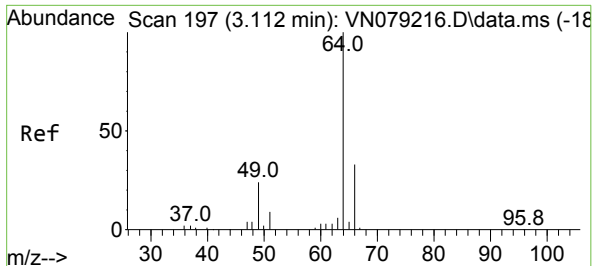
Tgt Ion:168 Resp: 131508
Ion Ratio Lower Upper
168 100
99 58.8 53.0 79.6



#3
Chloromethane
Concen: 0.300 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 50 Resp: 512
Ion Ratio Lower Upper
50 100
52 40.6 26.5 39.7#

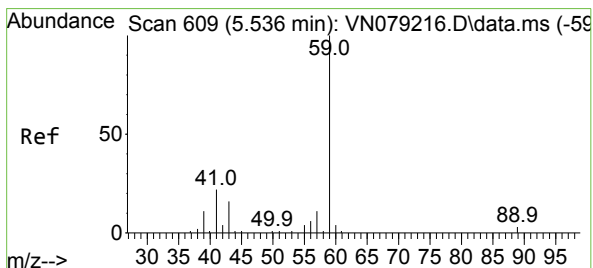
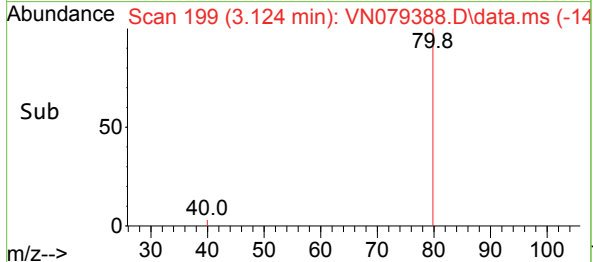
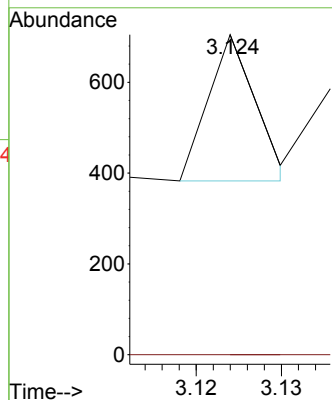
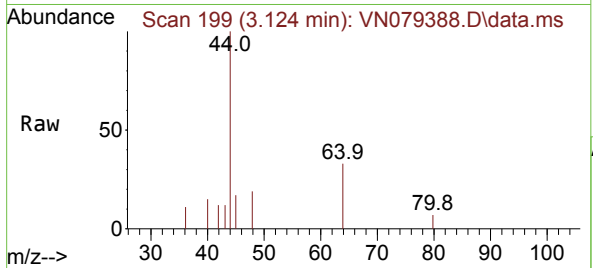




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 197
Delta R.T. 0.006 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

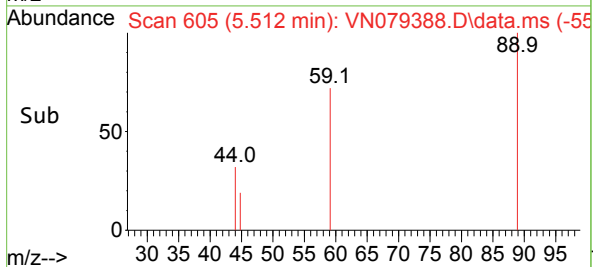
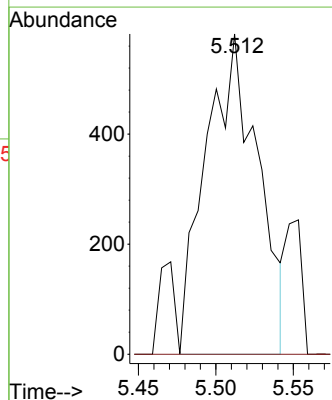
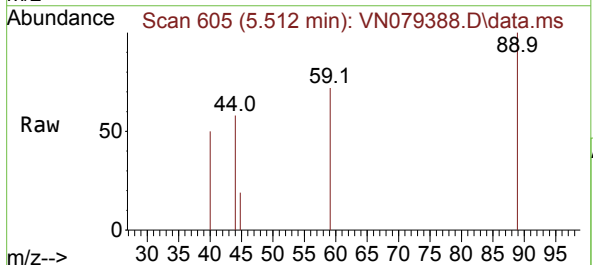
Instrument :
MSVOA_N
ClientSampleId :

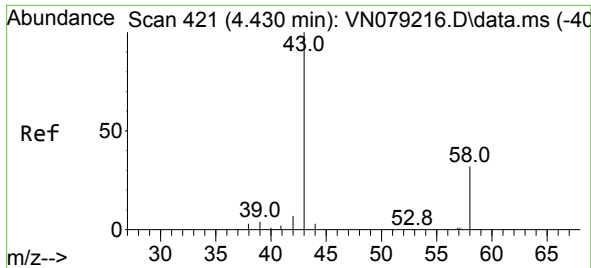
Tgt Ion: 64 Resp: 126
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 4.143 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.030 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 59 Resp: 1358
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

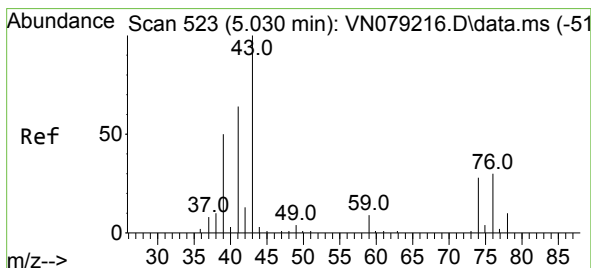
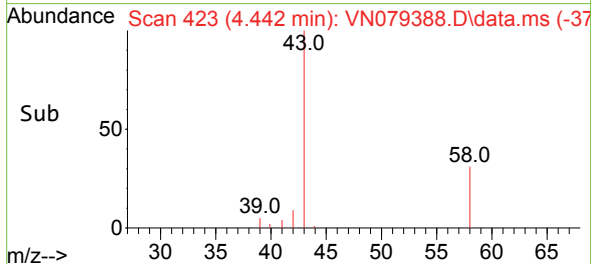
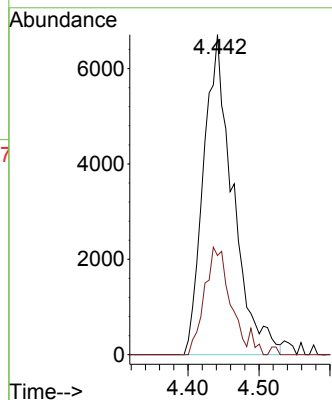
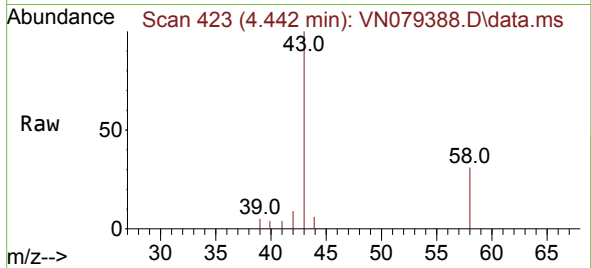




#16
Acetone
Concen: 25.564 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

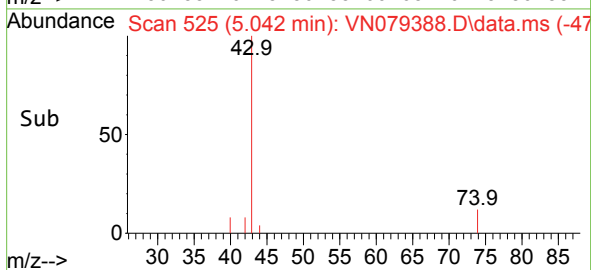
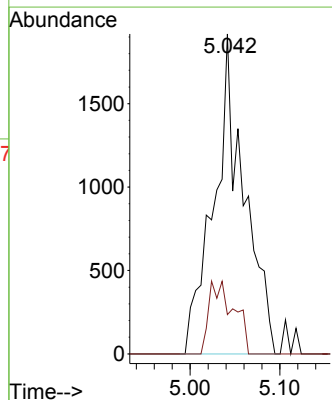
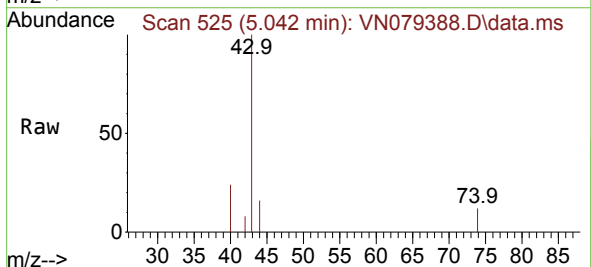
Instrument :
MSVOA_N
ClientSampleId :

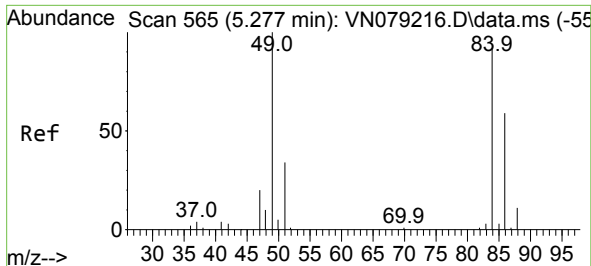
Tgt Ion: 43 Resp: 19274
Ion Ratio Lower Upper
43 100
58 31.0 28.0 42.0



#18
Methyl Acetate
Concen: 1.440 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

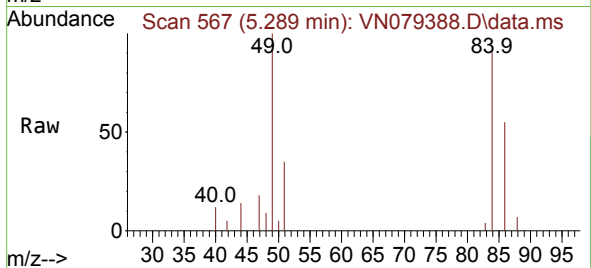
Tgt Ion: 43 Resp: 4462
Ion Ratio Lower Upper
43 100
74 18.8 26.2 39.4#



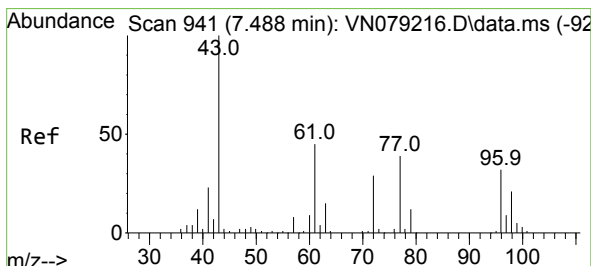
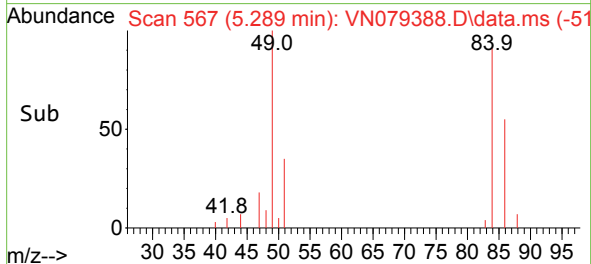
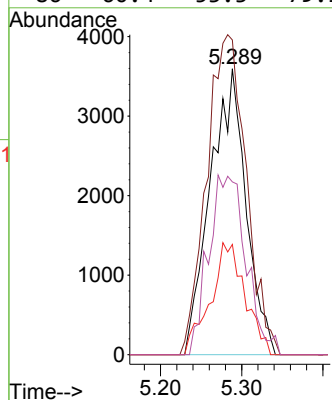


#20
Methylene Chloride
Concen: 5.980 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :

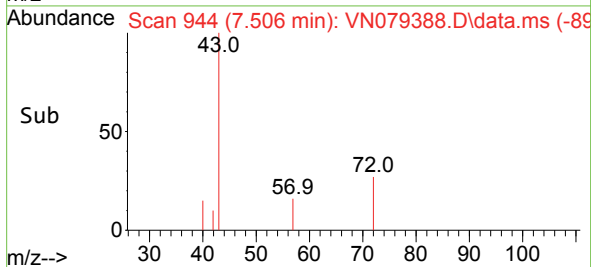
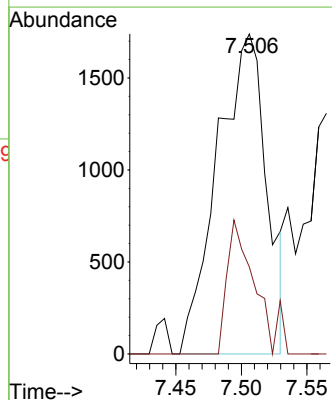
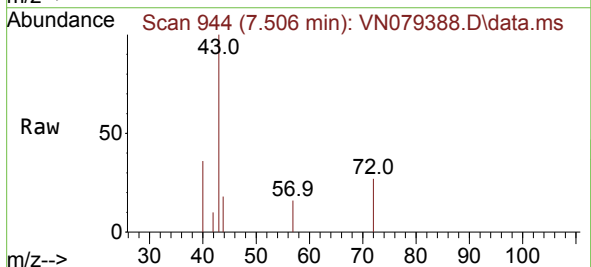


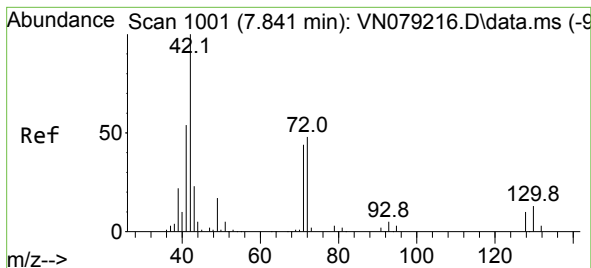
Tgt Ion: 84	Resp: 10972
Ion Ratio	Lower Upper
84 100	
49 110.1	79.7 119.5
51 38.5	25.2 37.8#
86 60.4	53.3 79.9



#25
2-Butanone
Concen: 4.149 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 43	Resp: 4539
Ion Ratio	Lower Upper
43 100	
72 27.2	30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.654 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

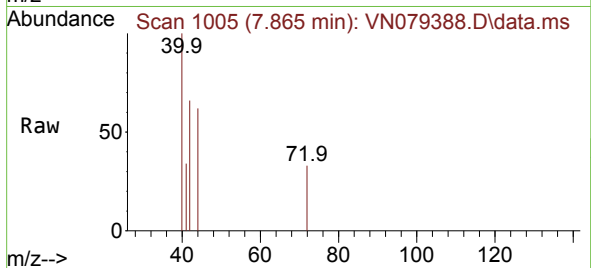
Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

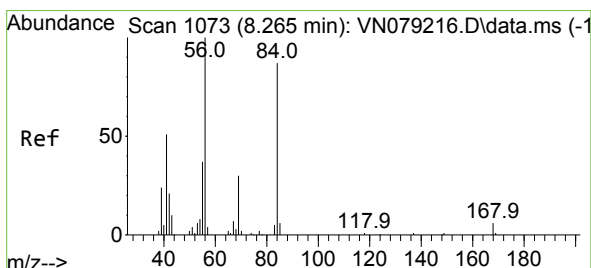
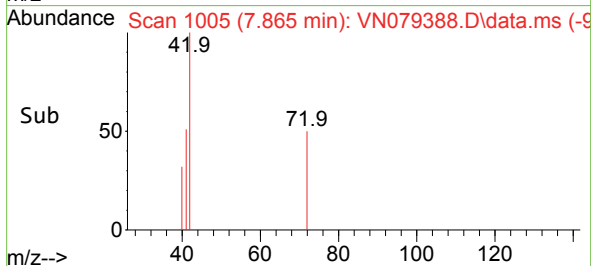
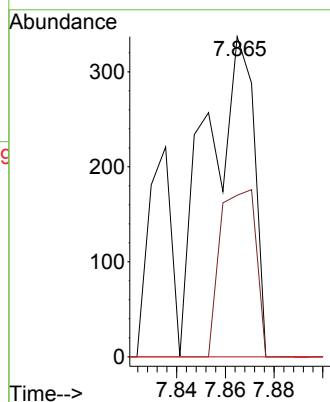
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	455
Ion Ratio	Lower	Upper	
42	100		
72	39.3	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.469 ug/l

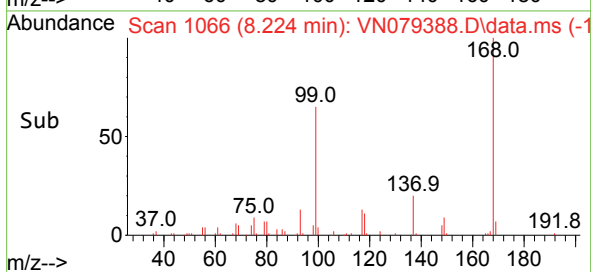
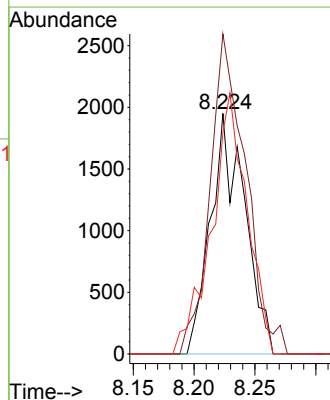
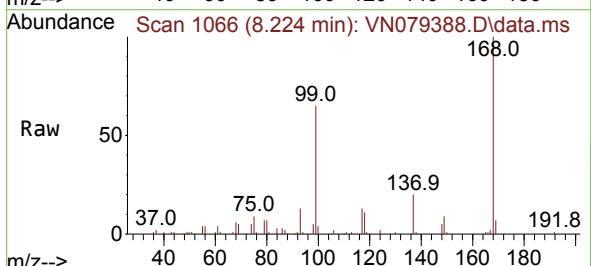
RT: 8.224 min Scan# 1066

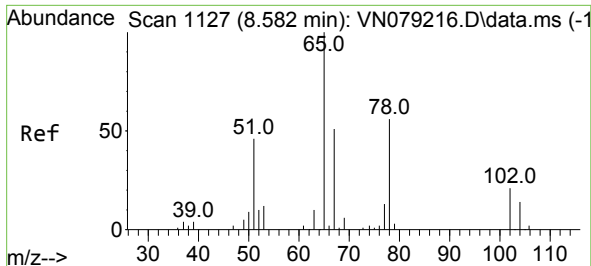
Delta R.T. -0.041 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Tgt Ion:	56	Resp:	3807
Ion Ratio	Lower	Upper	
56	100		
69	133.1	26.8	40.2#
84	92.2	81.8	122.6

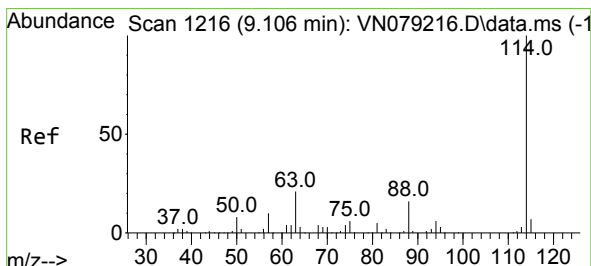
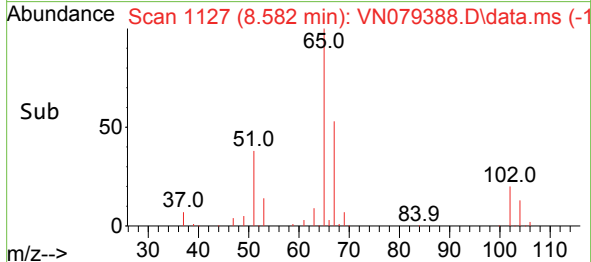
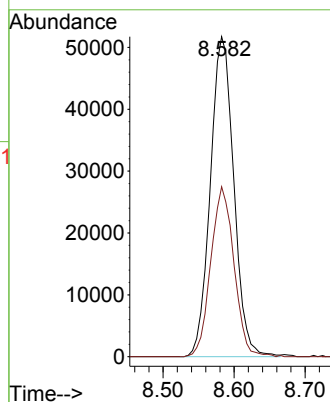
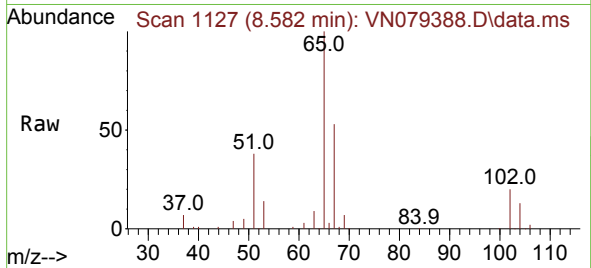




#33
 1,2-Dichloroethane-d4
 Concen: 66.845 ug/l
 RT: 8.582 min Scan# 1127
 Delta R.T. -0.001 min
 Lab File: VN079388.D
 Acq: 30 Sep 2023 15:46

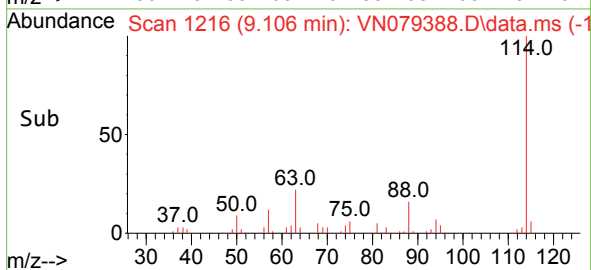
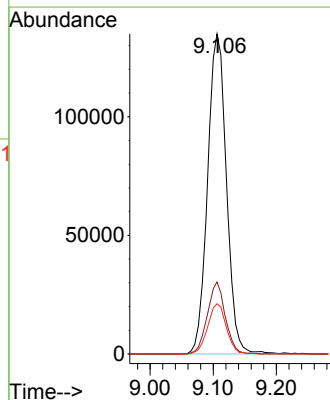
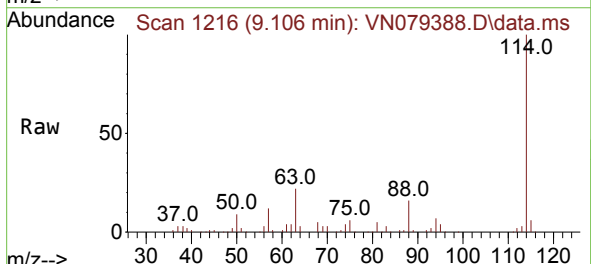
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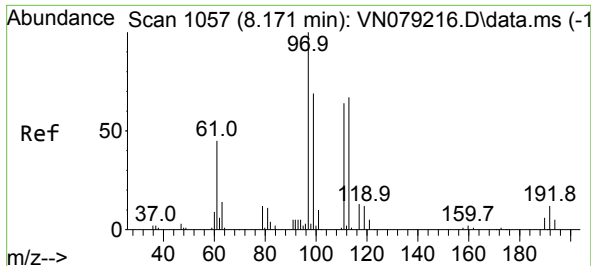
Tgt Ion: 65 Resp: 118665
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. -0.006 min
 Lab File: VN079388.D
 Acq: 30 Sep 2023 15:46

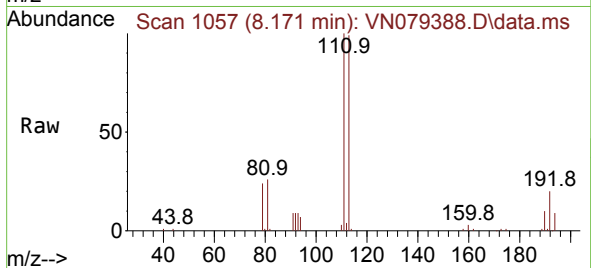
Tgt Ion:114 Resp: 279865
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 36.4
 88 15.7 0.0 30.6



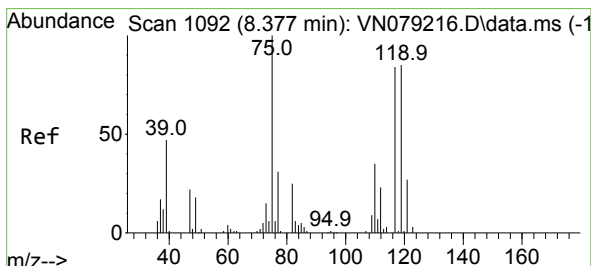
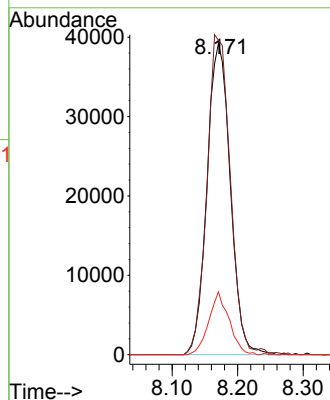
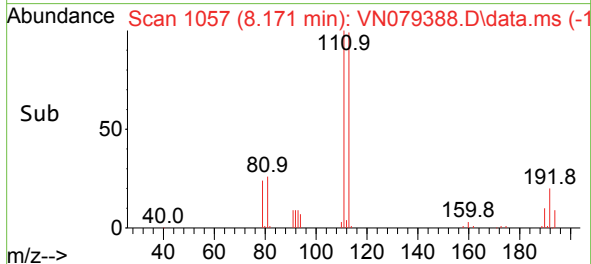


#35
Dibromofluoromethane
Concen: 52.049 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :

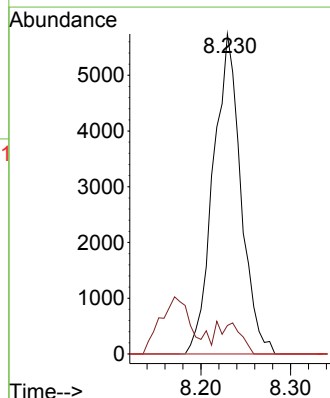
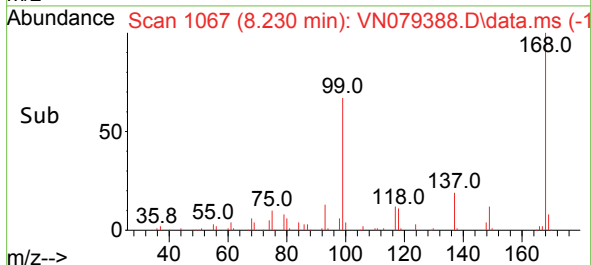
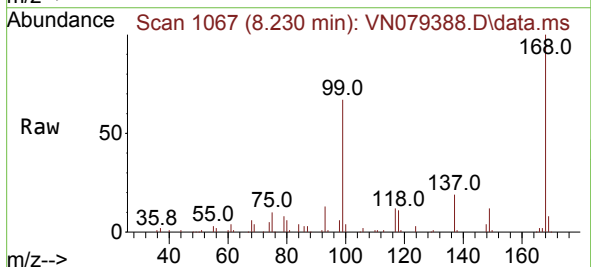


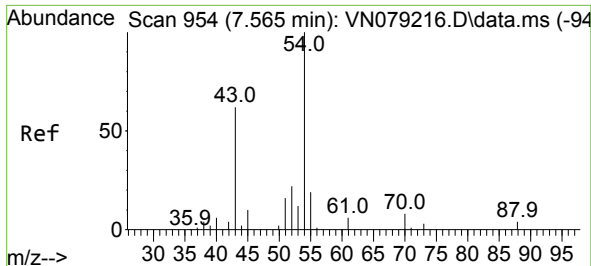
Tgt Ion:113 Resp: 96895
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 17.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.279 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 75 Resp: 12279
Ion Ratio Lower Upper
75 100
110 9.9 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.286 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

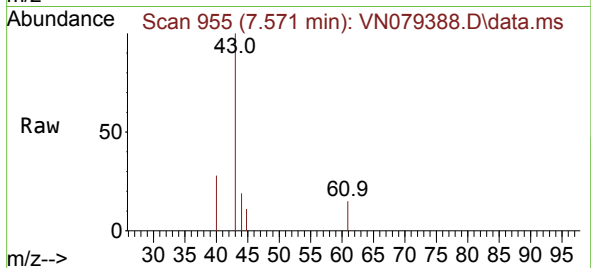
Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

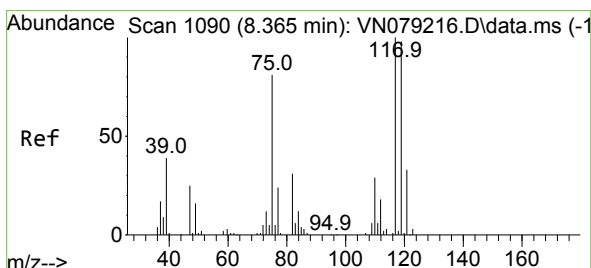
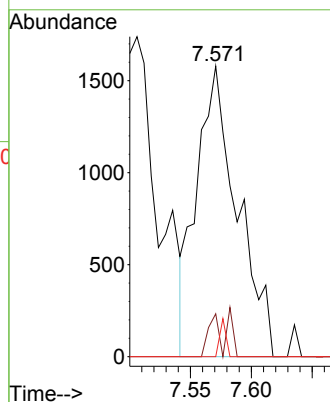
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp: 3681
Ion Ratio	Lower Upper
43	100
61	3.7 13.2 19.8#
70	2.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 4.999 ug/l

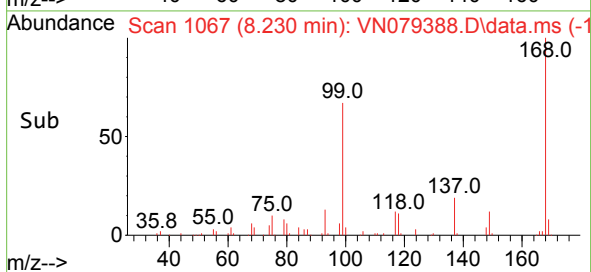
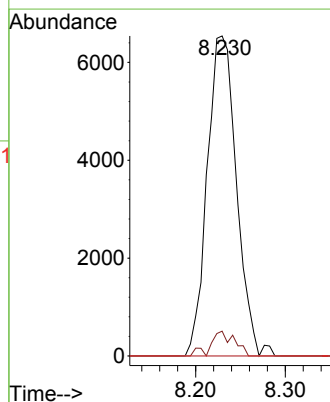
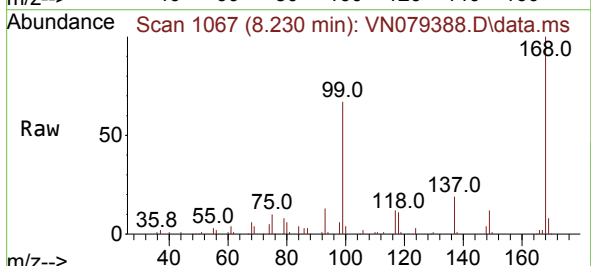
RT: 8.230 min Scan# 1067

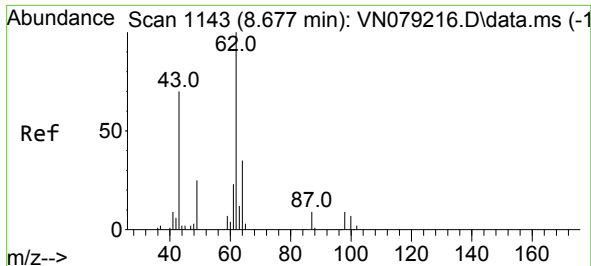
Delta R.T. -0.141 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Tgt Ion: 117	Resp: 14845
Ion Ratio	Lower Upper
117	100
119	7.7 77.3 115.9#
121	0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.221 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Instrument :

MSVOA_N

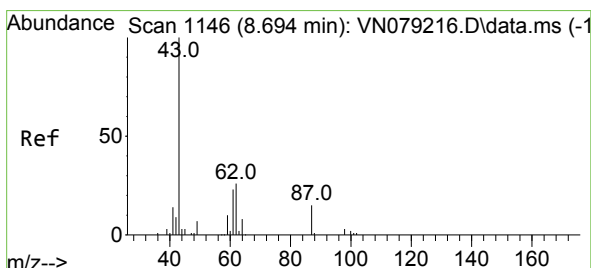
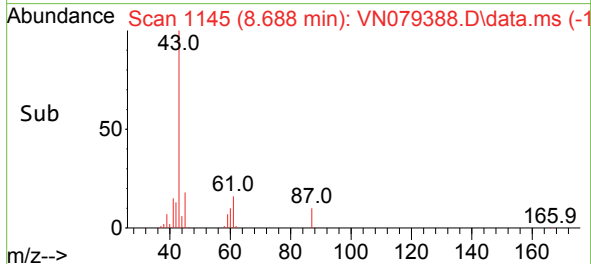
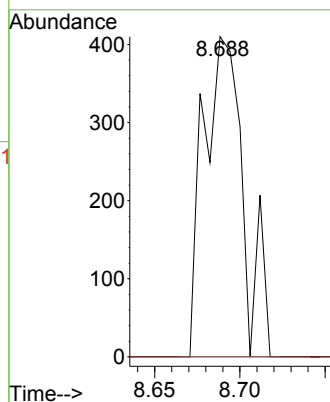
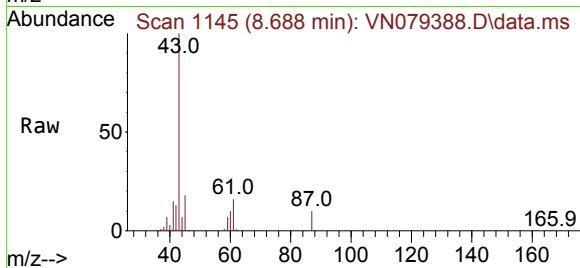
ClientSampleId :

Tgt Ion: 62 Resp: 667

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 46.179 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

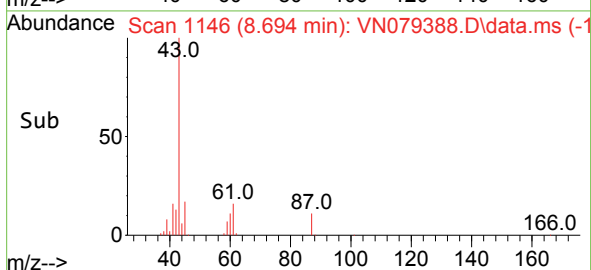
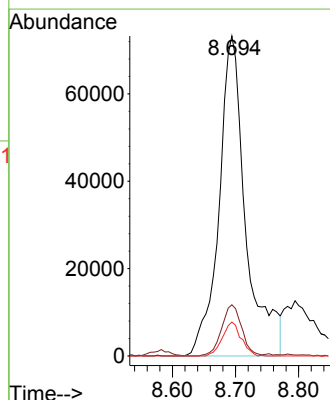
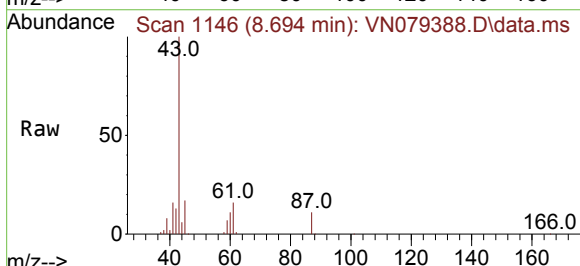
Tgt Ion: 43 Resp: 215653

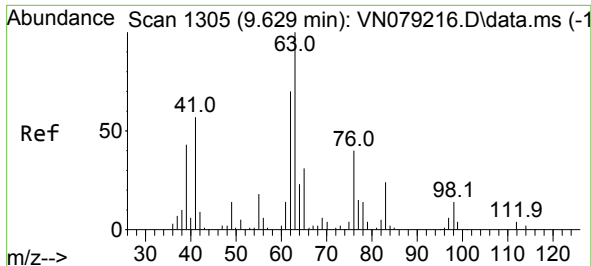
Ion Ratio Lower Upper

43 100

61 12.0 24.7 37.1#

87 7.4 14.6 21.8#

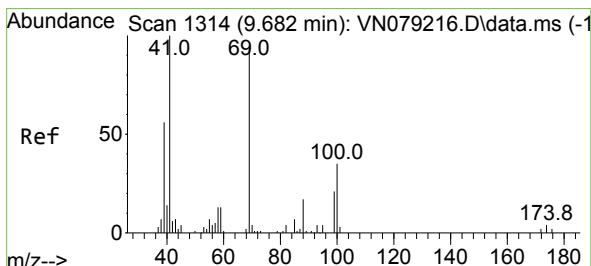
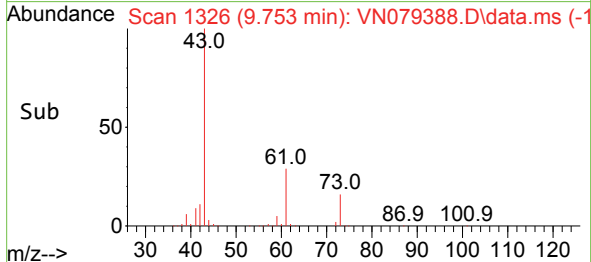
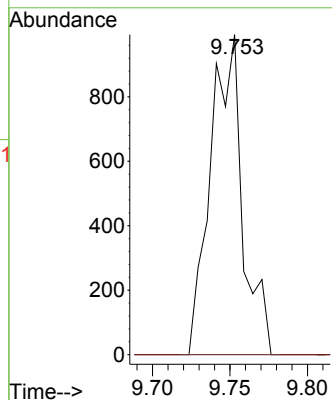
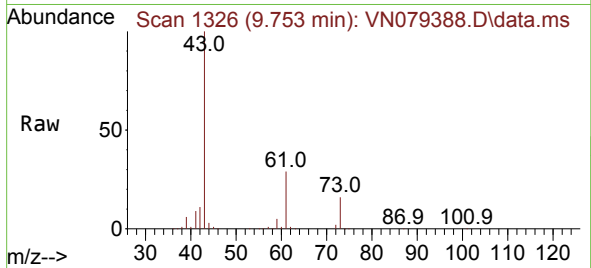




#45
1,2-Dichloropropane
Concen: 0.653 ug/l
RT: 9.753 min Scan# 11
Delta R.T. 0.129 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

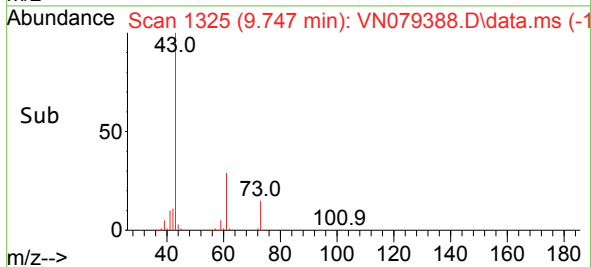
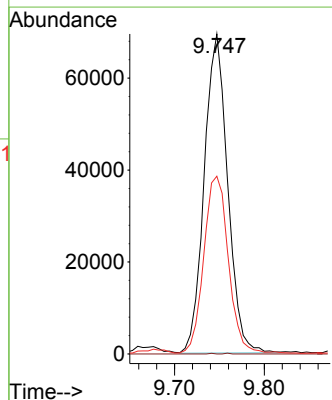
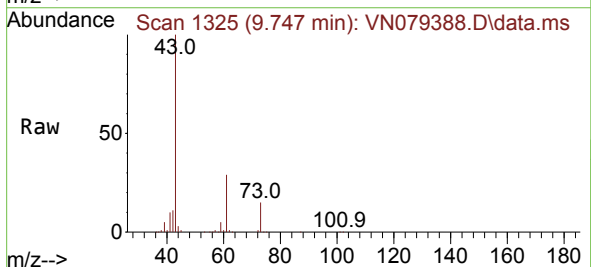
Instrument :
MSVOA_N
ClientSampleId :

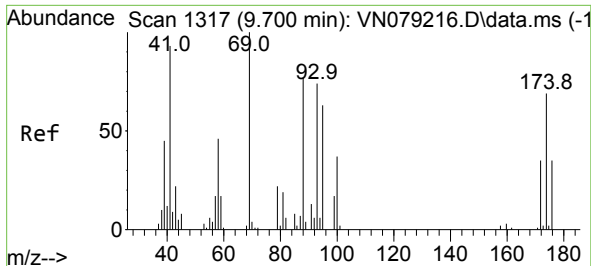
Tgt Ion: 63 Resp: 1423
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 60.173 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 41 Resp: 125869
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.2 54.6 81.8





#49

1,4-Dioxane

Concen: 1.743 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.041 min

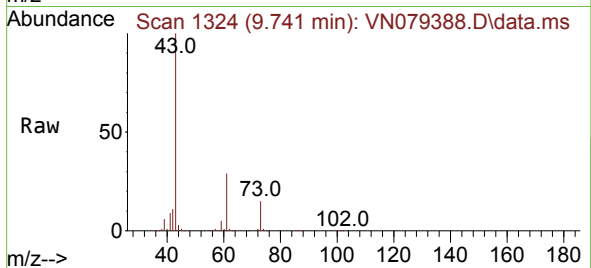
Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Instrument :

MSVOA_N

ClientSampleId :



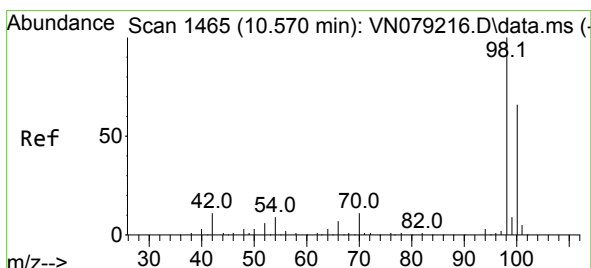
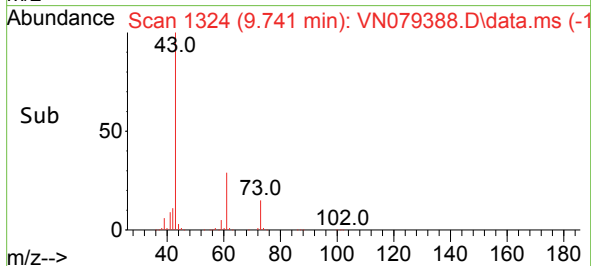
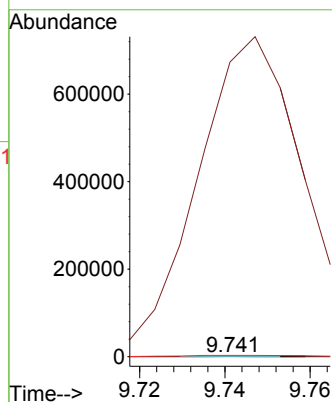
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 1749414.7 17.0 25.6#

58 9362.7 47.0 70.4#



#50

Toluene-d8

Concen: 53.659 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079388.D

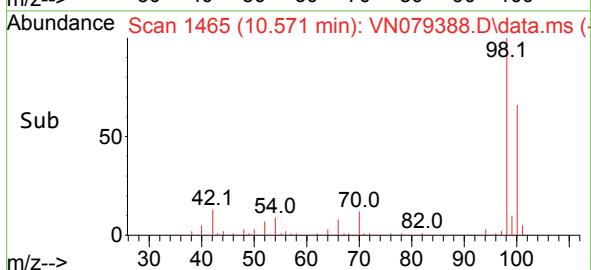
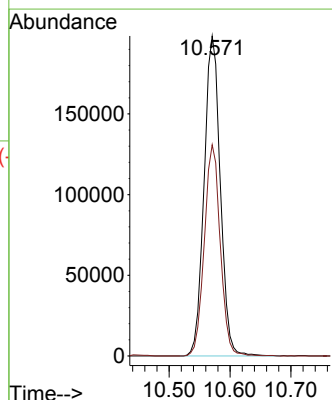
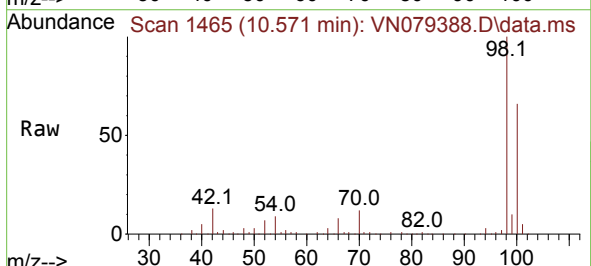
Acq: 30 Sep 2023 15:46

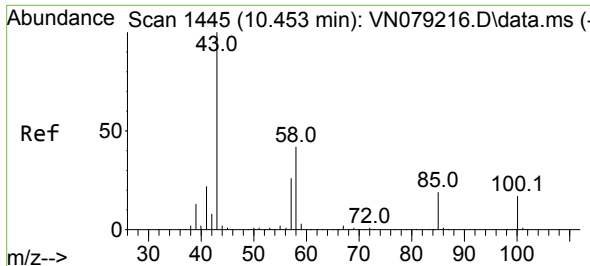
Tgt Ion: 98 Resp: 366786

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.917 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Instrument :

MSVOA_N

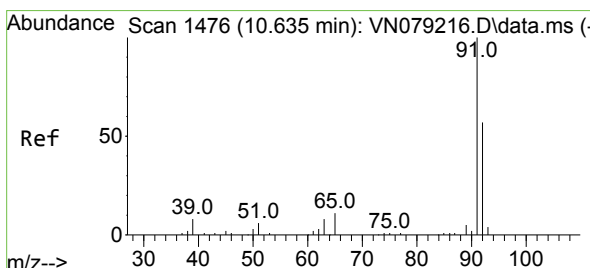
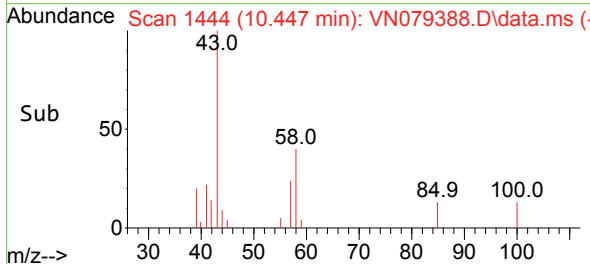
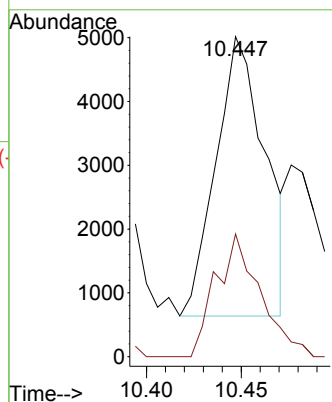
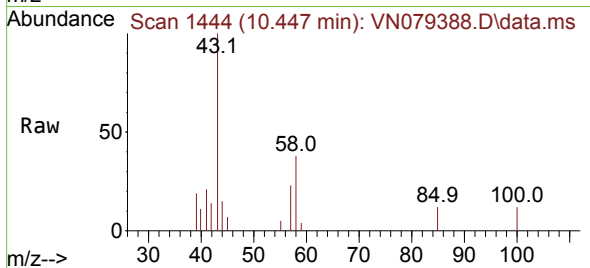
ClientSampleId :

Tgt Ion: 43 Resp: 7909

Ion Ratio Lower Upper

43 100

58 39.7 36.6 54.8



#52

Toluene

Concen: 0.390 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN079388.D

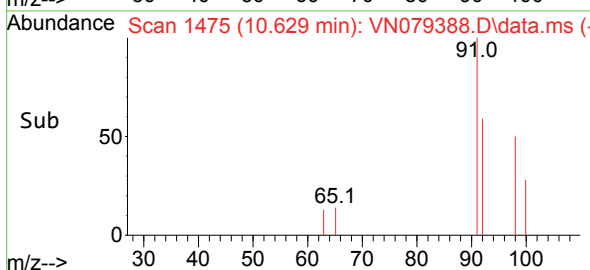
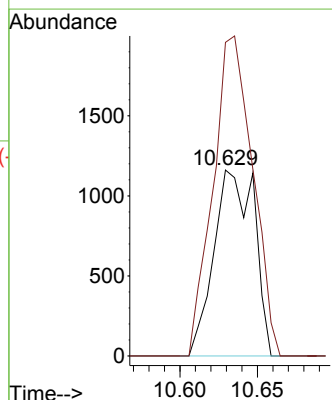
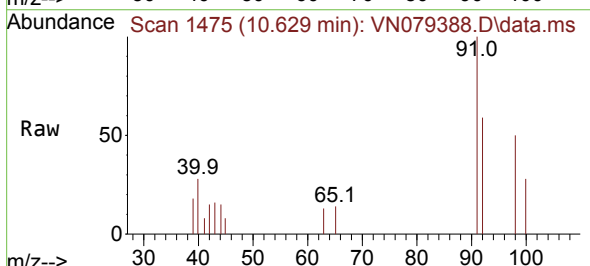
Acq: 30 Sep 2023 15:46

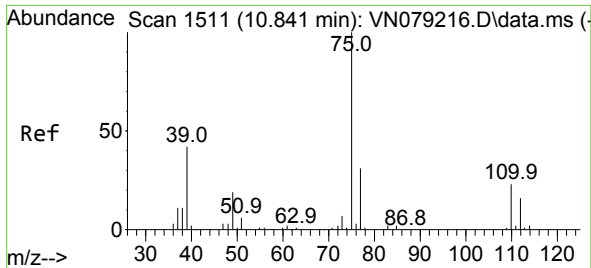
Tgt Ion: 92 Resp: 2108

Ion Ratio Lower Upper

92 100

91 169.2 137.4 206.0

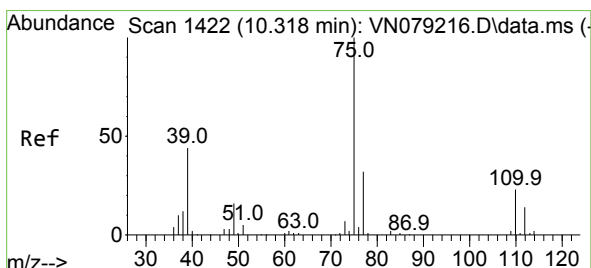
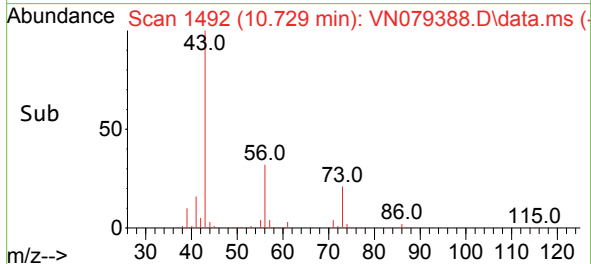
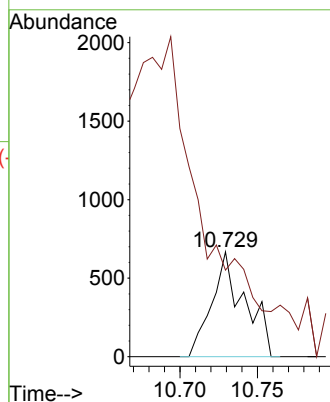
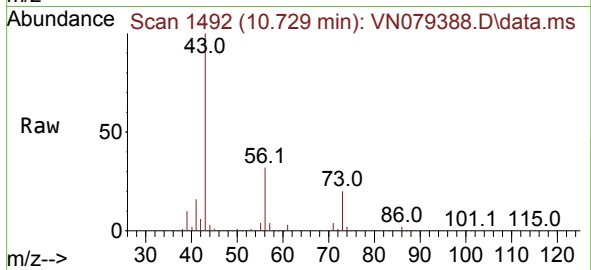




#53
 t-1,3-Dichloropropene
 Concen: 0.307 ug/l
 RT: 10.729 min Scan# 14
 Delta R.T. -0.112 min
 Lab File: VN079388.D
 Acq: 30 Sep 2023 15:46

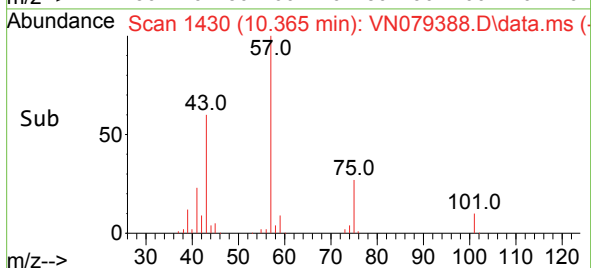
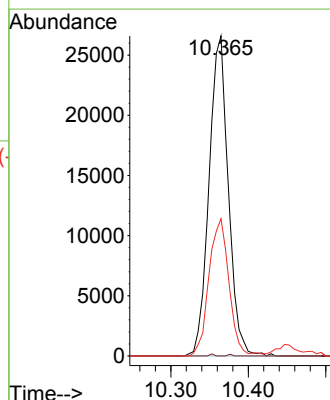
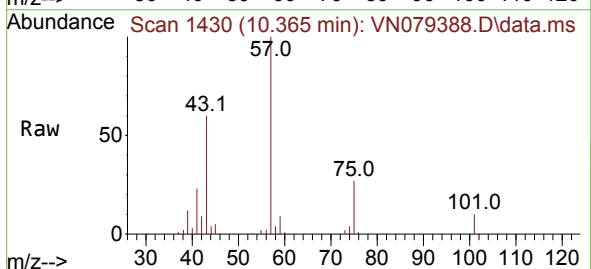
Instrument :
 MSVOA_N
 ClientSampleId :

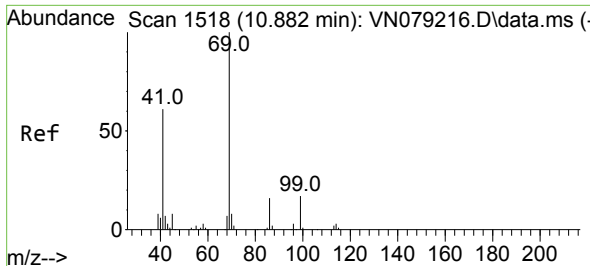
Tgt Ion: 75 Resp: 982
 Ion Ratio Lower Upper
 75 100
 77 33.4 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 13.455 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079388.D
 Acq: 30 Sep 2023 15:46

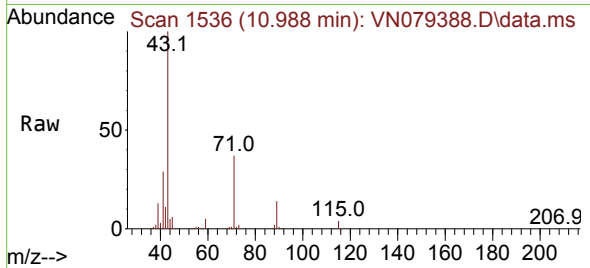
Tgt Ion: 75 Resp: 45997
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 42.9 31.6 47.4



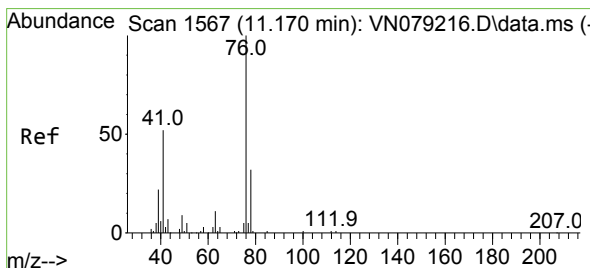
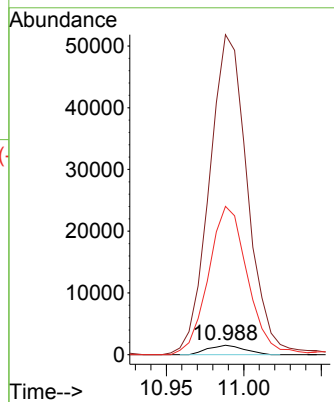
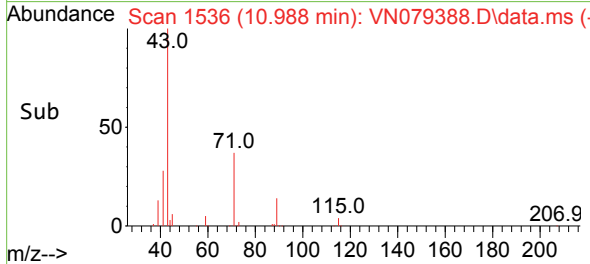


#56
Ethyl methacrylate
Concen: 0.830 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :

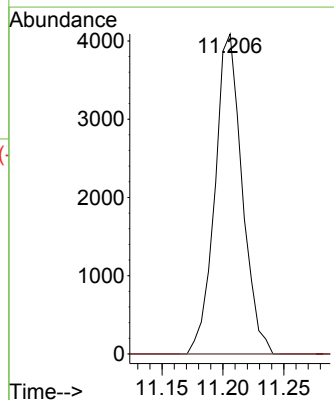
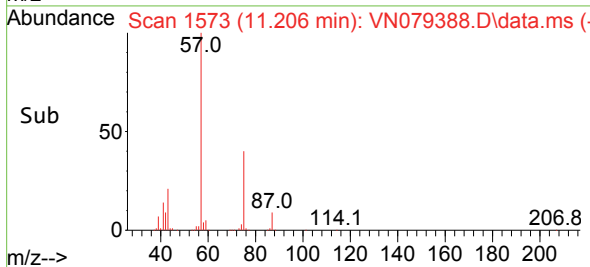
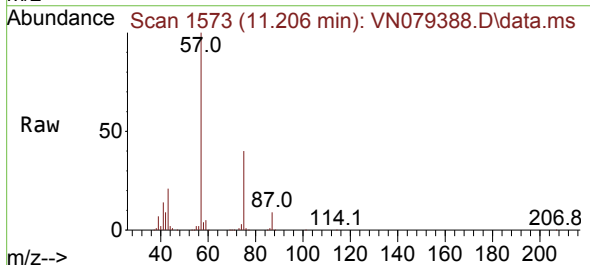


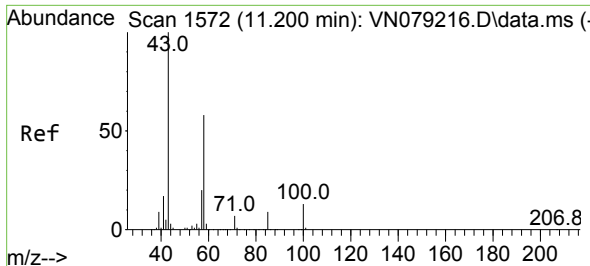
Tgt Ion: 69 Resp: 2481
Ion Ratio Lower Upper
69 100
41 3595.3 39.6 59.4#
39 1703.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.735 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 76 Resp: 6354
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

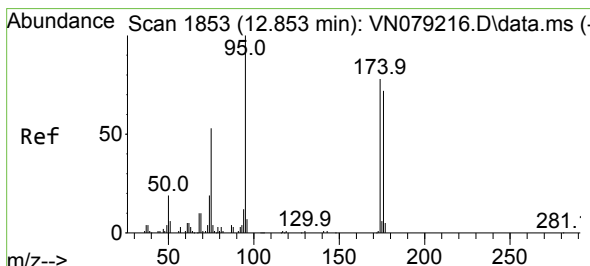
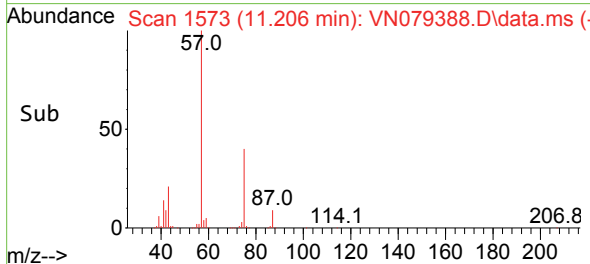
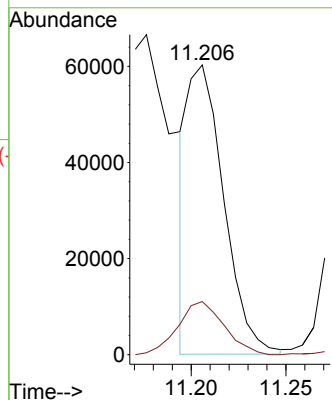
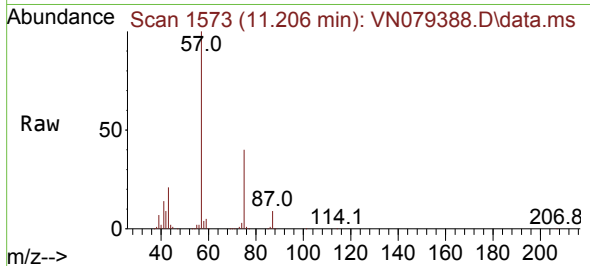




#59
2-Hexanone
Concen: 40.679 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

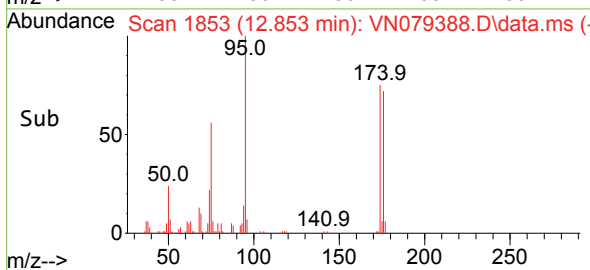
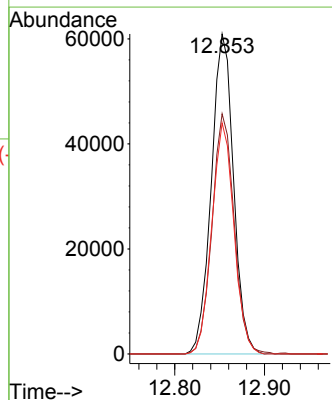
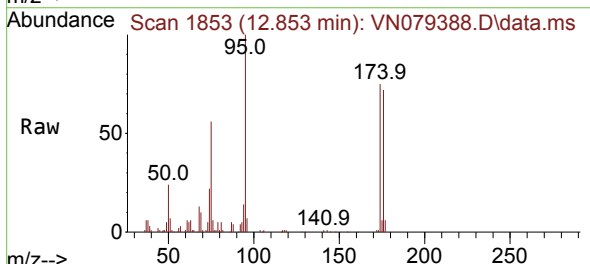
Instrument :
MSVOA_N
ClientSampleId :

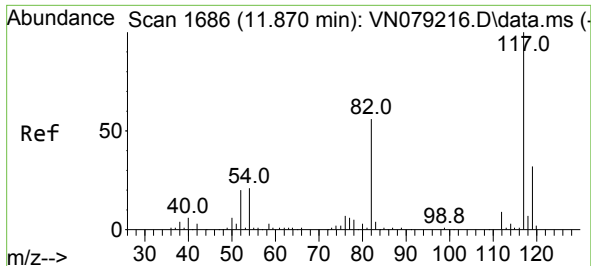
Tgt Ion: 43 Resp: 79872
Ion Ratio Lower Upper
43 100
58 23.4 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.966 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

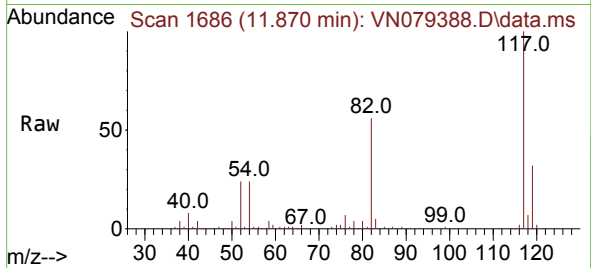
Tgt Ion: 95 Resp: 104586
Ion Ratio Lower Upper
95 100
174 74.8 0.0 143.8
176 72.1 0.0 135.8



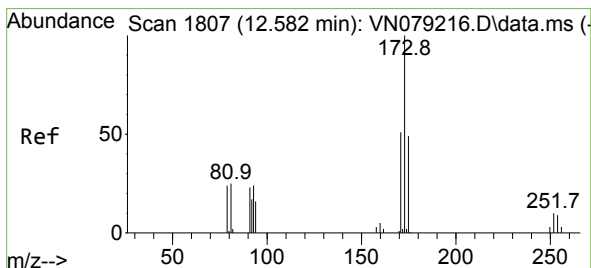
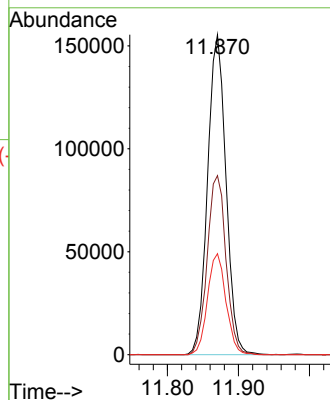
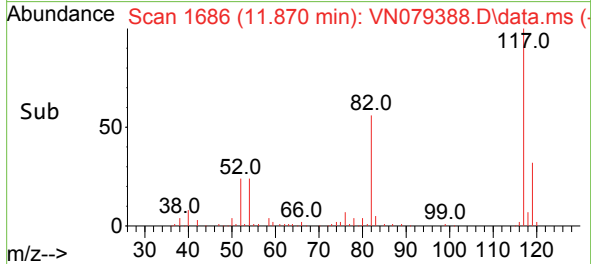


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :

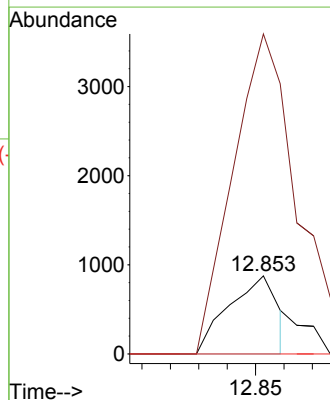
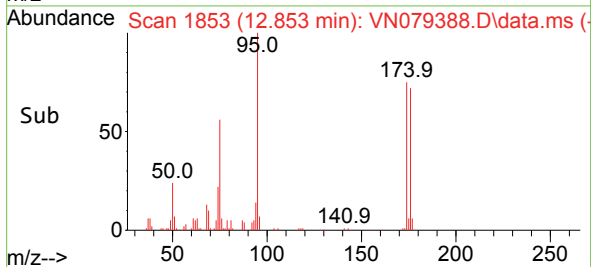
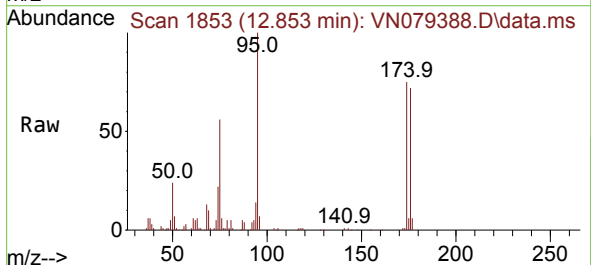


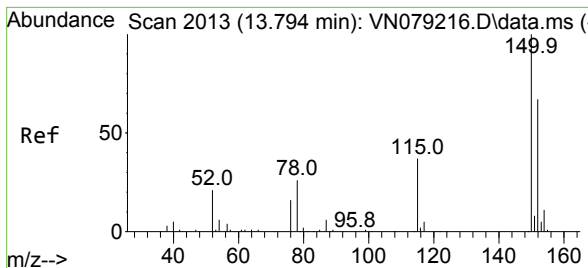
Tgt Ion:117 Resp: 279655
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 31.6 25.6 38.4



#71
Bromoform
Concen: 0.600 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion:173 Resp: 1052
Ion Ratio Lower Upper
173 100
175 413.0 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# 20

Delta R.T. -0.000 min

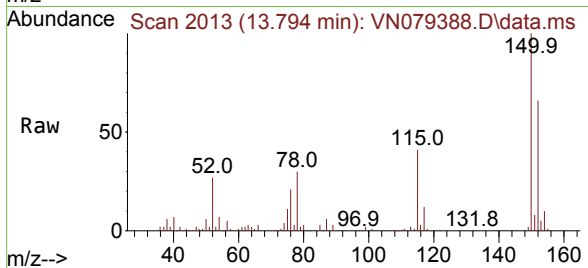
Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Instrument :

MSVOA_N

ClientSampleId :



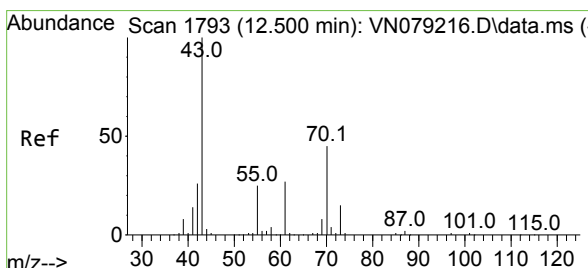
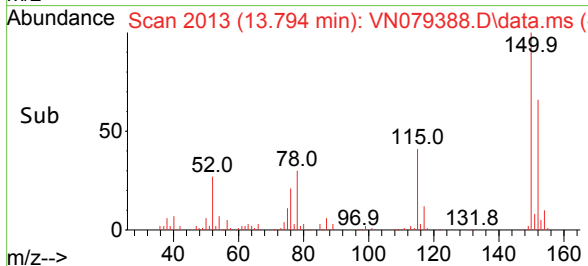
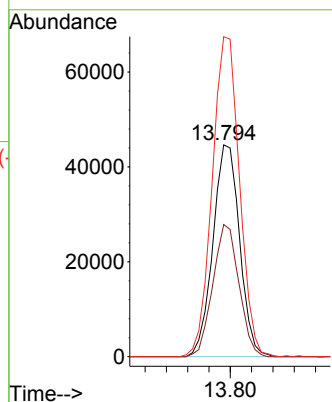
Tgt Ion:152 Resp: 77466

Ion Ratio Lower Upper

152 100

115 61.1 32.3 96.8

150 154.5 0.0 355.8



#74

N-ethyl acetate

Concen: 0.727 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN079388.D

Acq: 30 Sep 2023 15:46

Tgt Ion: 43 Resp: 1943

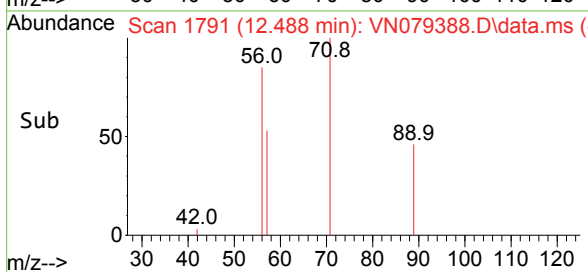
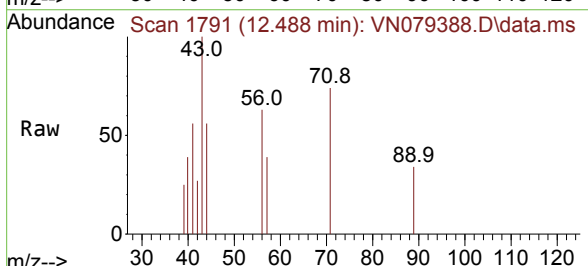
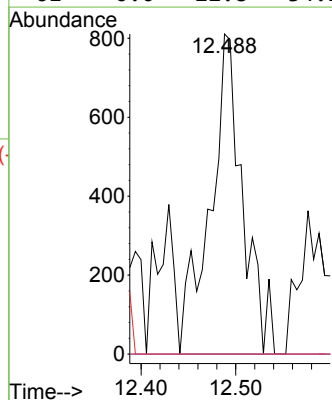
Ion Ratio Lower Upper

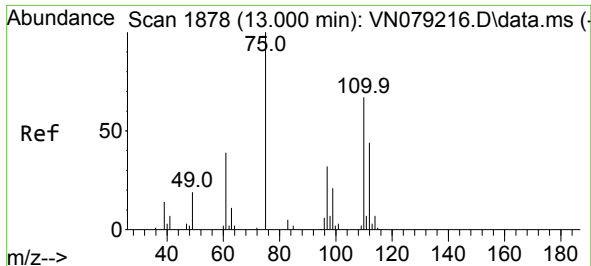
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#

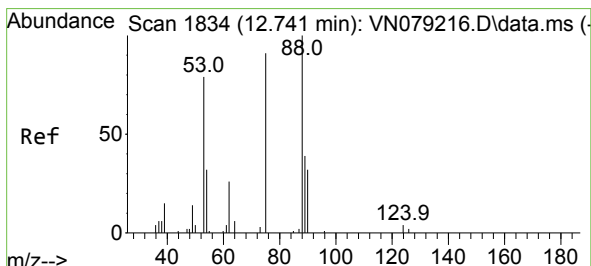
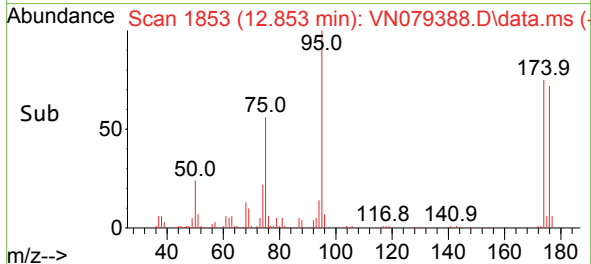
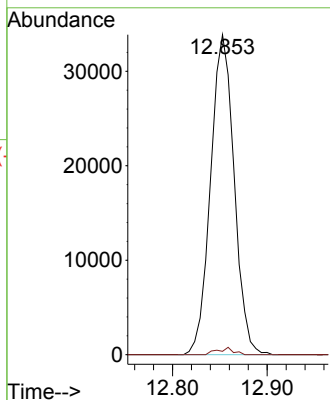
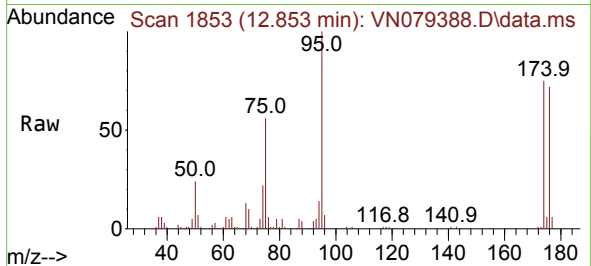




#76
1,2,3-Trichloropropane
Concen: 28.038 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 58537
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.081 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079388.D
Acq: 30 Sep 2023 15:46

Tgt Ion: 75 Resp: 58537
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.1 38.8 58.2#

