

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101923\
 Data File : VN079615.D
 Acq On : 19 Oct 2023 13:38
 Operator : JC\MD
 Sample : 04920-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

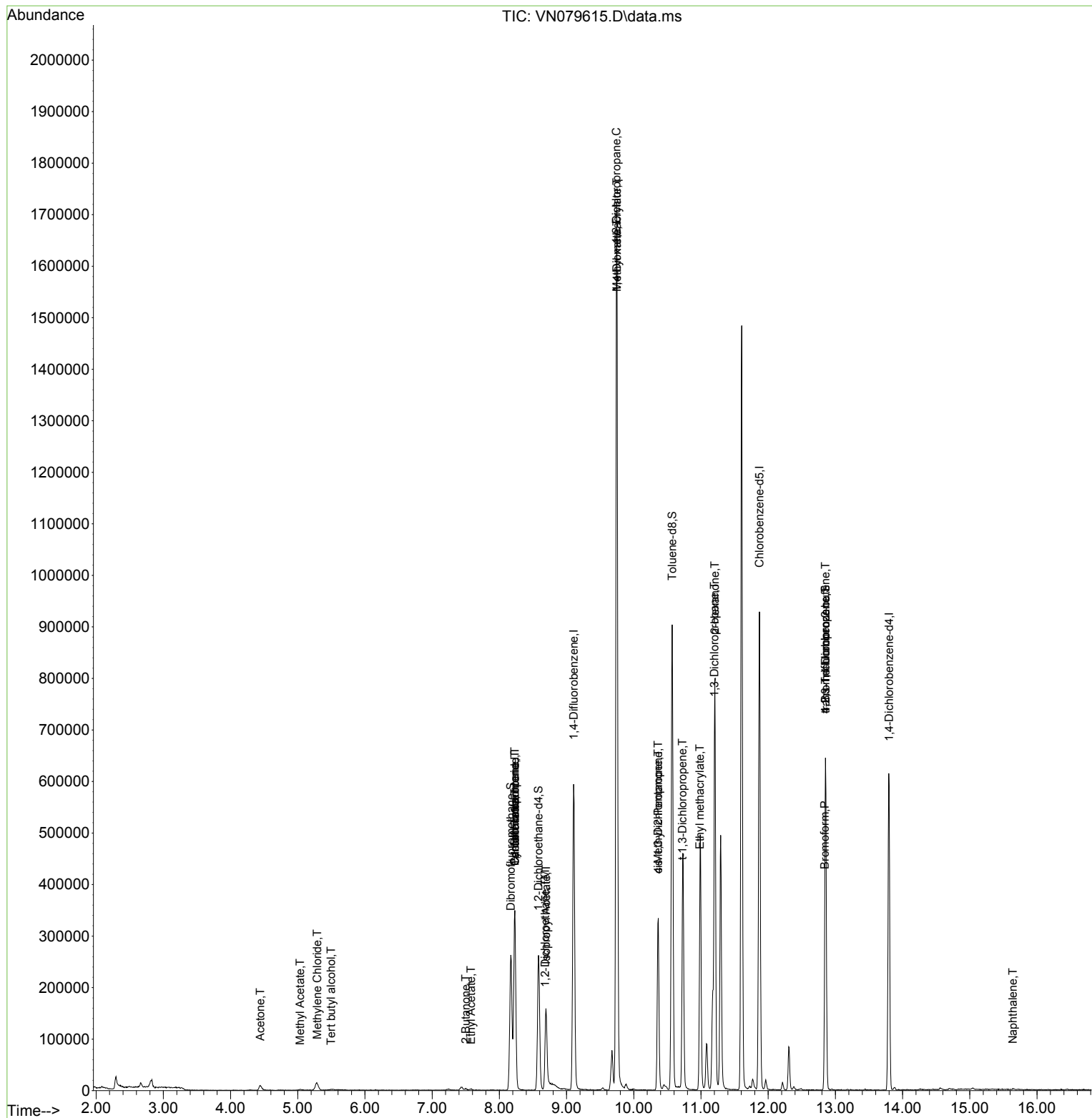
Quant Time: Oct 20 01:29:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

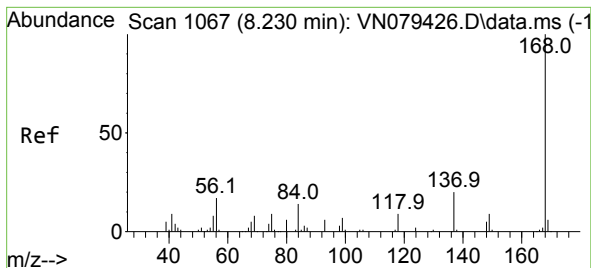
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	239009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	493635	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	507736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	158764	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	213373	55.059	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.120%	
35) Dibromofluoromethane	8.171	113	185739	52.359	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.720%	
50) Toluene-d8	10.571	98	611036	47.605	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.200%	
62) 4-Bromofluorobenzene	12.853	95	209233	50.794	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.580%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.494	59	1234	2.116	ug/l	# 72
16) Acetone	4.442	43	18503	12.038	ug/l	100
18) Methyl Acetate	5.036	43	3081	0.410	ug/l	# 50
20) Methylene Chloride	5.289	84	11331	2.798	ug/l	# 86
25) 2-Butanone	7.500	43	4915	2.154	ug/l	94
31) Cyclohexane	8.229	56	6699	1.219	ug/l	# 16
36) 1,1-Dichloropropene	8.229	75	22197	4.169	ug/l	# 48
37) Ethyl Acetate	7.577	43	2095	0.395	ug/l	# 77
38) Carbon Tetrachloride	8.229	117	26601	4.991	ug/l	# 17
42) 1,2-Dichloroethane	8.682	62	1160	0.202	ug/l	# 73
43) Isopropyl Acetate	8.694	43	184003	19.825	ug/l	# 78
45) 1,2-Dichloropropane	9.741	63	2059	0.494	ug/l	# 45
48) Methyl methacrylate	9.747	41	158647	39.888	ug/l	# 29
49) 1,4-Dioxane	9.747	88	141	1.925	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.365	43	125200	23.896	ug/l	# 41
53) t-1,3-Dichloropropene	10.723	75	1294	0.231	ug/l	# 1
54) cis-1,3-Dichloropropene	10.365	75	57327	9.363	ug/l	# 74
56) Ethyl methacrylate	10.982	69	2838	0.553	ug/l	# 1
57) 1,3-Dichloropropane	11.200	76	8038	1.246	ug/l	# 42
59) 2-Hexanone	11.206	43	99255	26.252	ug/l	# 48
71) Bromoform	12.841	173	2194	0.724	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.853	83	318	Below Cal	#	15
76) 1,2,3-Trichloropropane	12.853	75	119870	26.186	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	119870	75.980	ug/l	# 15
90) Hexachloroethane	14.453	117	60	Below Cal	#	21
95) Naphthalene	15.641	128	2394	0.452	ug/l	# 76

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.001 min

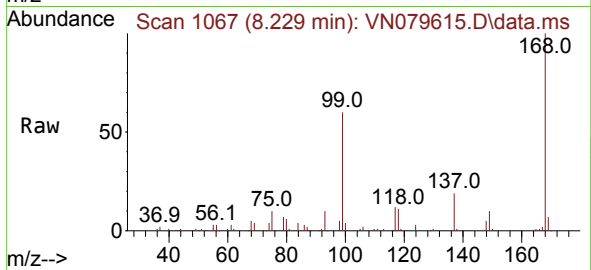
Lab File: VN079615.D

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Instrument :

MSVOA_N

ClientSampleId :

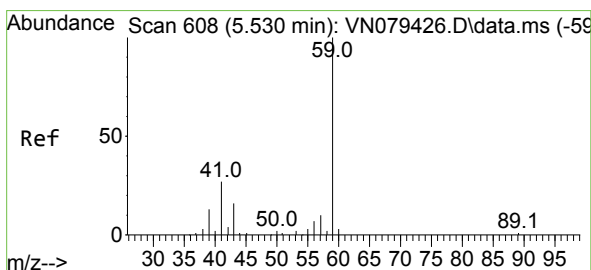
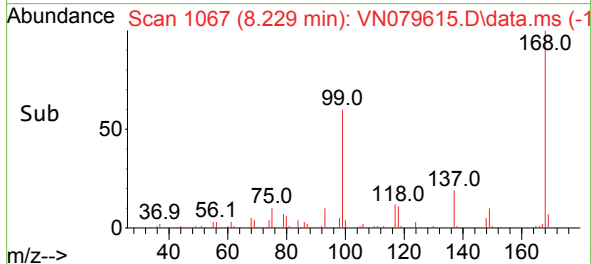
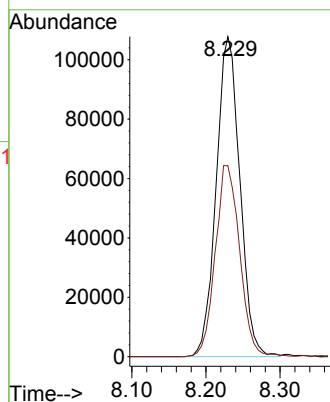


Tgt Ion:168 Resp: 239009

Ion Ratio Lower Upper

168 100

99 59.7 53.0 79.6



#11

Tert butyl alcohol

Concen: 2.116 ug/l

RT: 5.494 min Scan# 602

Delta R.T. -0.036 min

Lab File: VN079615.D

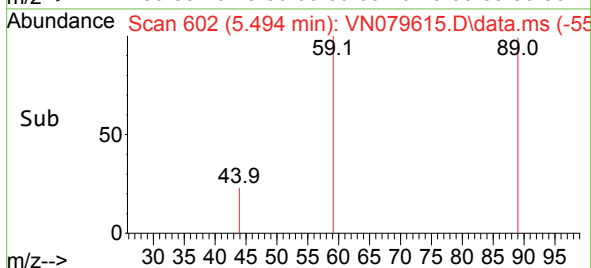
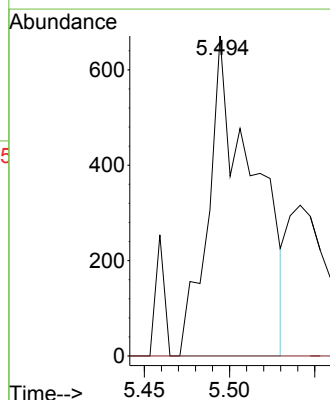
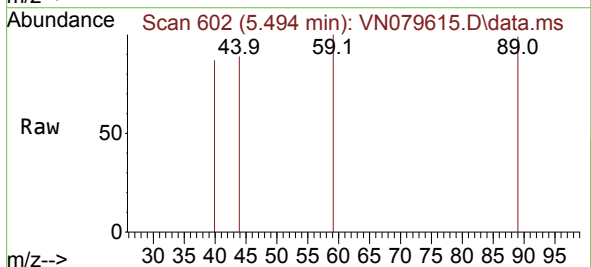
Acq: 19 Oct 2023 13:38

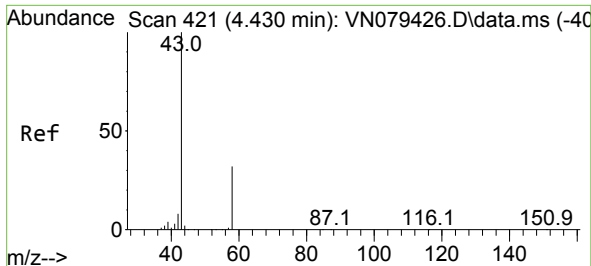
Tgt Ion: 59 Resp: 1234

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

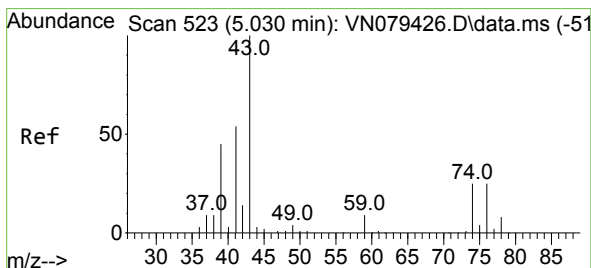
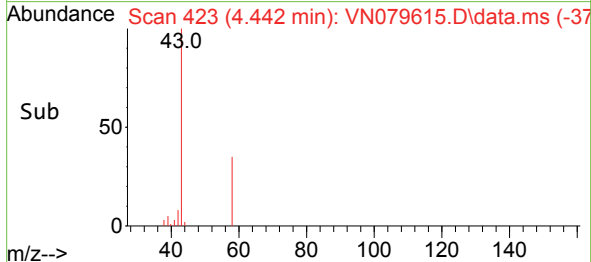
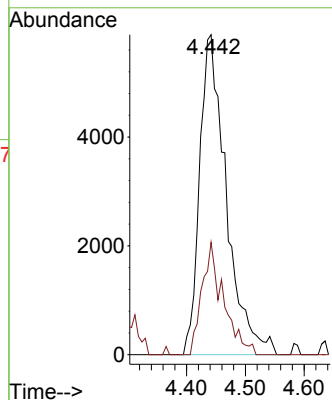
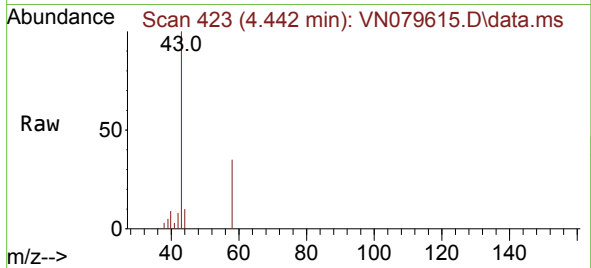




#16
Acetone
Concen: 12.038 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

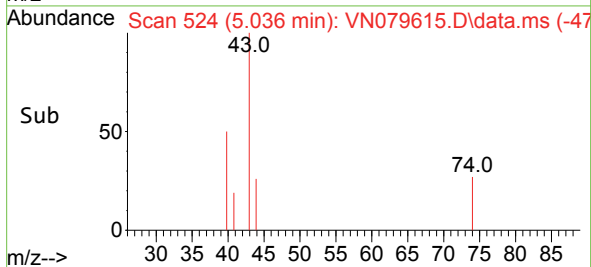
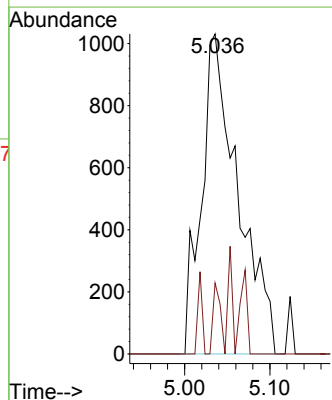
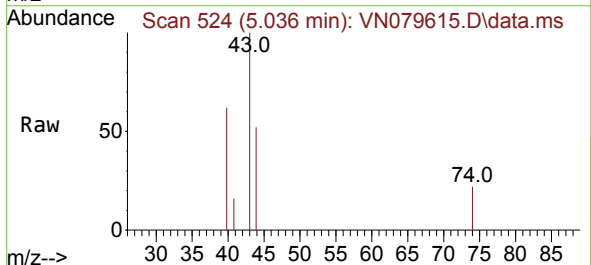
Instrument :
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ClientSampleId :

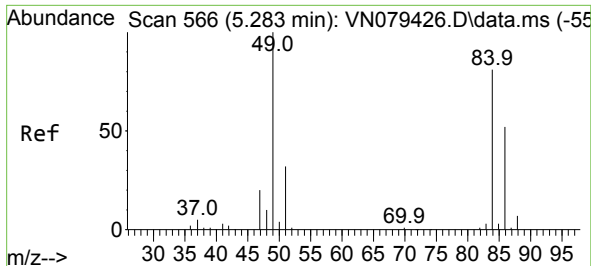
Tgt Ion: 43 Resp: 18503
Ion Ratio Lower Upper
43 100
58 35.1 28.0 42.0



#18
Methyl Acetate
Concen: 0.410 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

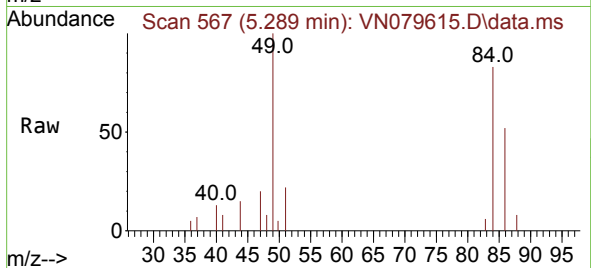
Tgt Ion: 43 Resp: 3081
Ion Ratio Lower Upper
43 100
74 4.5 26.2 39.4#





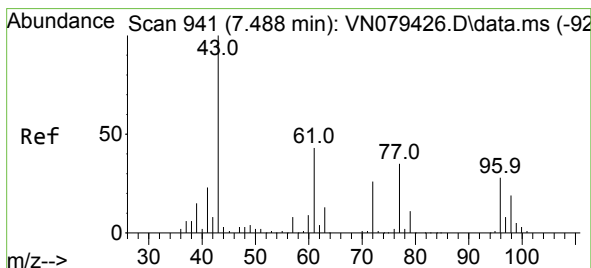
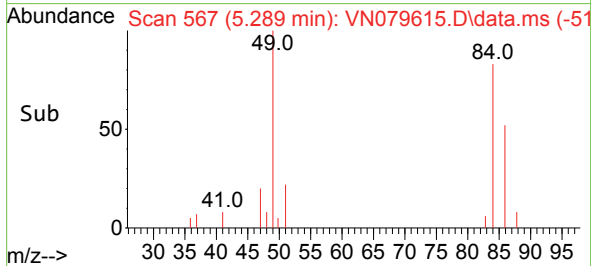
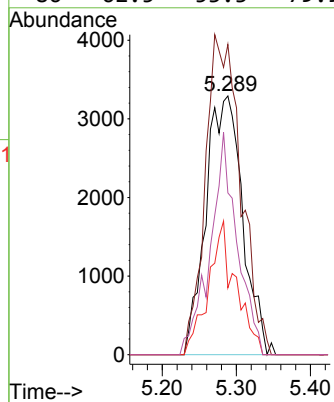
#20
Methylene Chloride
Concen: 2.798 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 11331

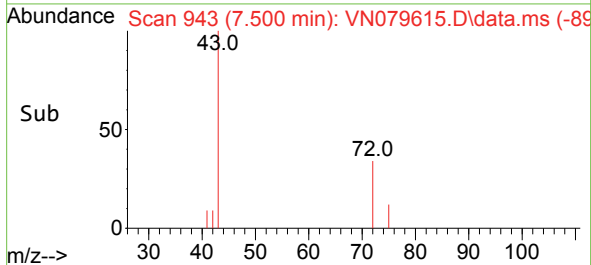
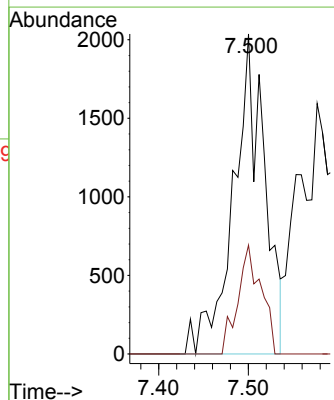
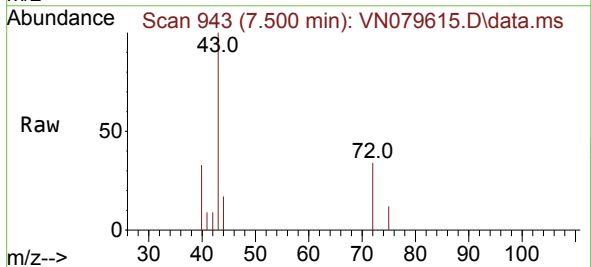
Ion	Ratio	Lower	Upper
84	100		
49	119.9	79.7	119.5#
51	25.8	25.2	37.8
86	62.5	53.3	79.9

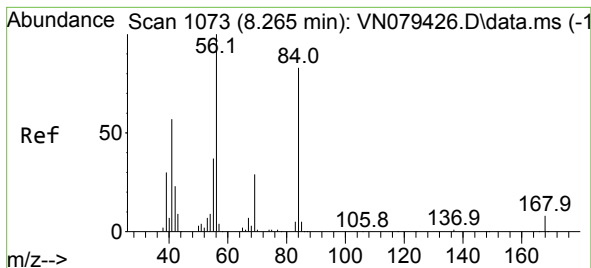


#25
2-Butanone
Concen: 2.154 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 43 Resp: 4915

Ion	Ratio	Lower	Upper
43	100		
72	34.0	30.2	45.2





#31

Cyclohexane

Concen: 1.219 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.035 min

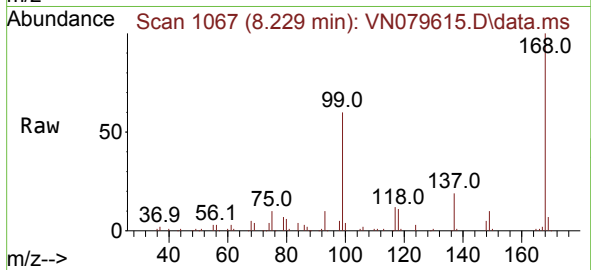
Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

Instrument :

MSVOA_N

ClientSampleId :



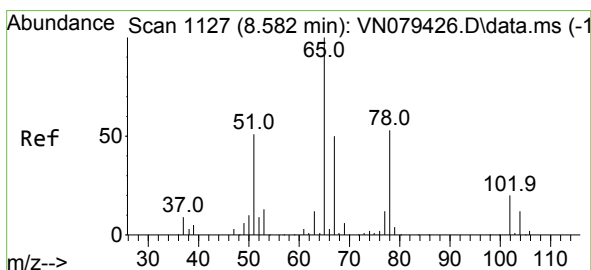
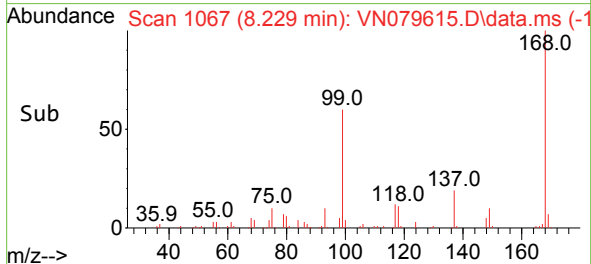
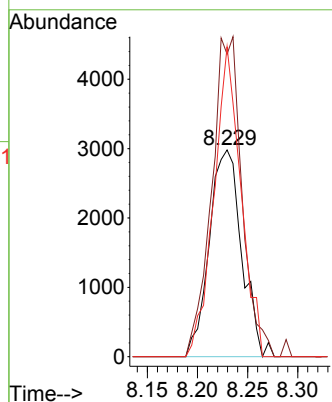
Tgt Ion: 56 Resp: 6699

Ion Ratio Lower Upper

56 100

69 146.2 26.8 40.2#

84 149.8 81.8 122.6#



#33

1,2-Dichloroethane-d4

Concen: 55.059 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079615.D

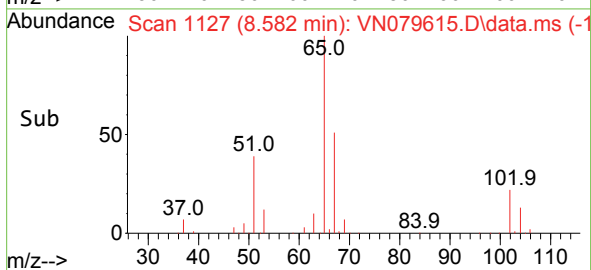
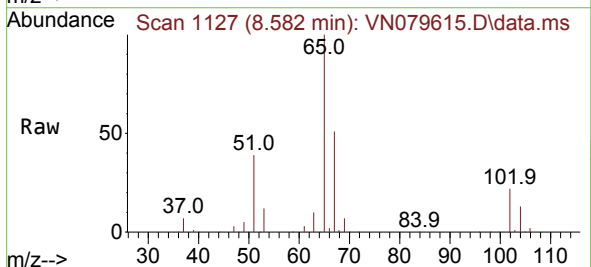
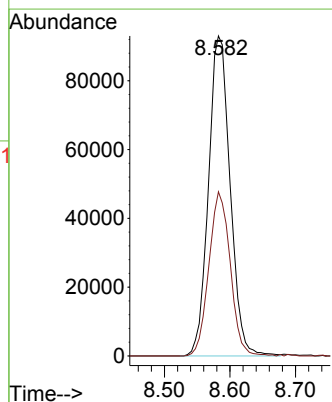
Acq: 19 Oct 2023 13:38

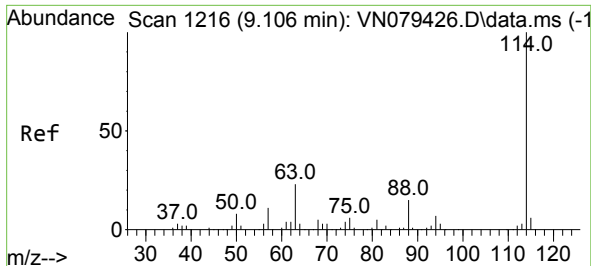
Tgt Ion: 65 Resp: 213373

Ion Ratio Lower Upper

65 100

67 50.6 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: VN079615.D

Acq: 19 Oct 2023 13:38

Instrument :

MSVOA_N

ClientSampleId :

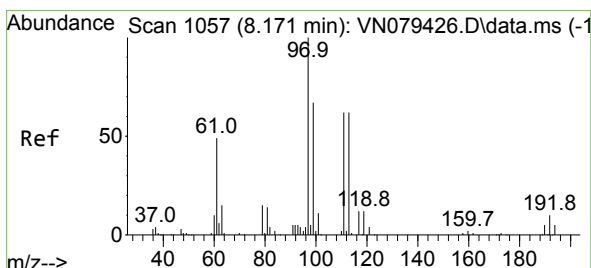
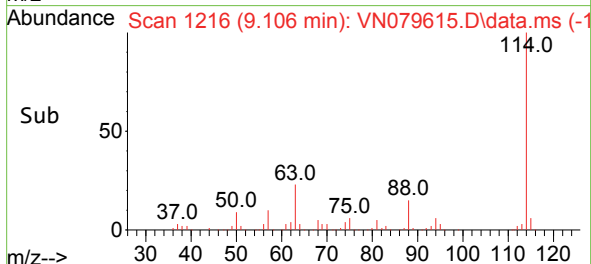
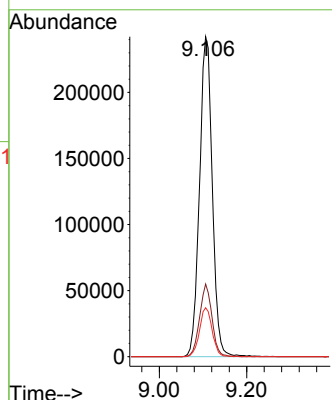
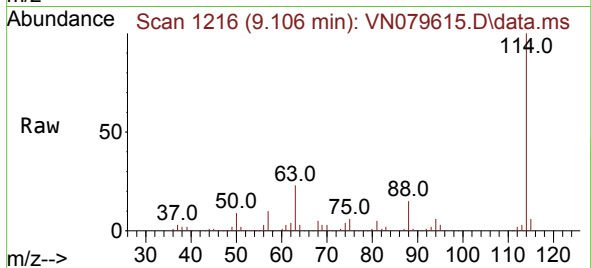
Tgt Ion:114 Resp: 493635

Ion Ratio Lower Upper

114 100

63 22.7 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.359 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

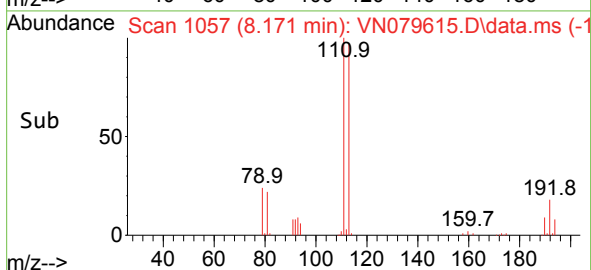
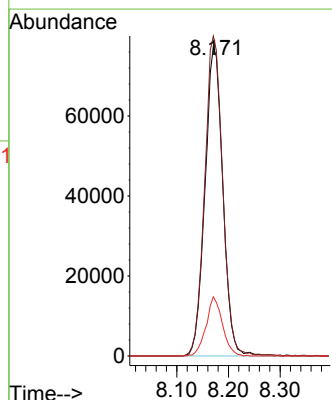
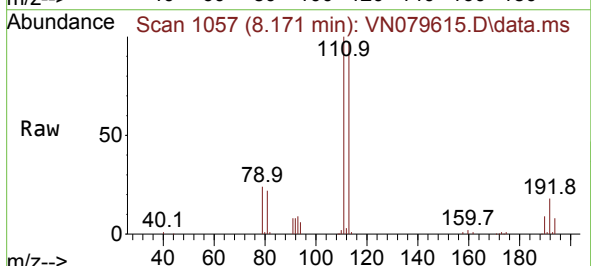
Tgt Ion:113 Resp: 185739

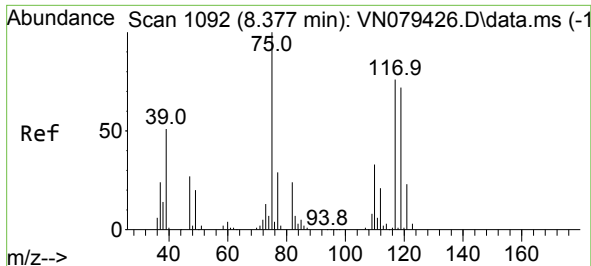
Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

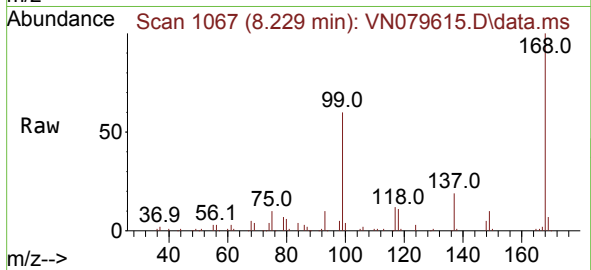
192 17.6 12.7 19.1



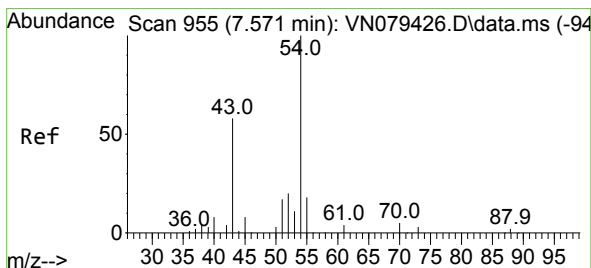
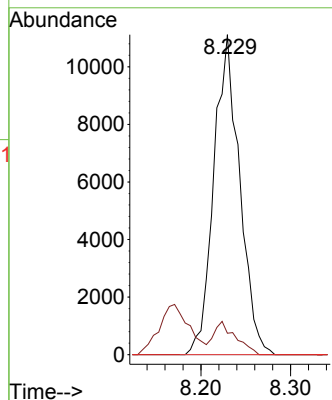
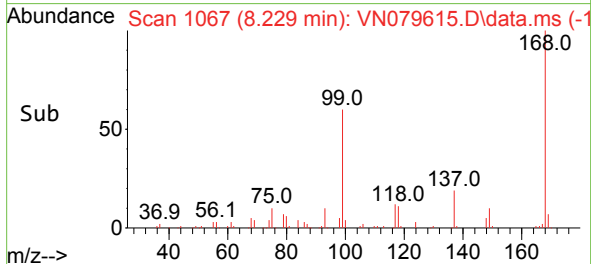


#36
1,1-Dichloropropene
Concen: 4.169 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

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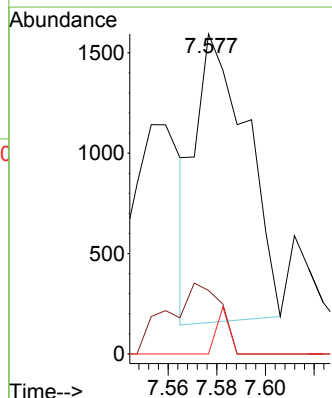
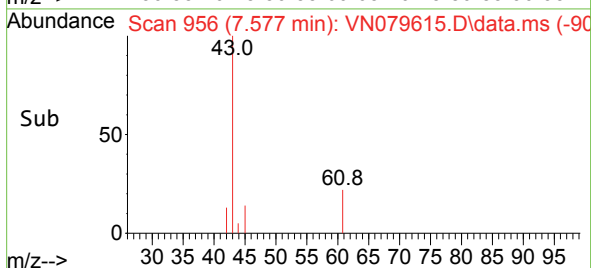
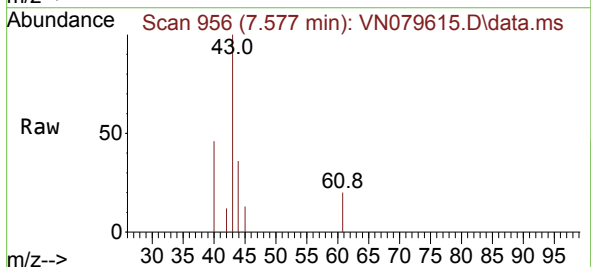


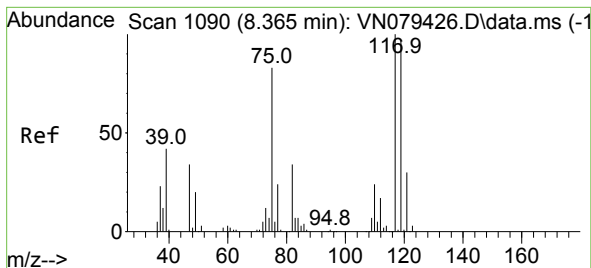
Tgt Ion: 75 Resp: 22197
Ion Ratio Lower Upper
75 100
110 8.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.395 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 43 Resp: 2095
Ion Ratio Lower Upper
43 100
61 25.3 13.2 19.8#
70 3.9 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.991 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.135 min

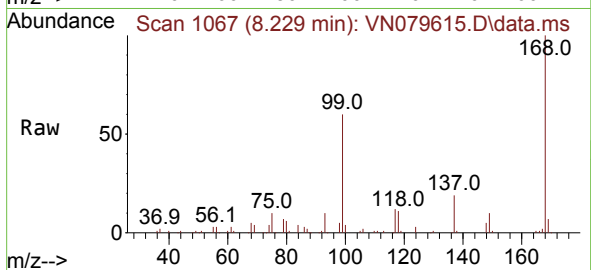
Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

Instrument :

MSVOA_N

ClientSampleId :



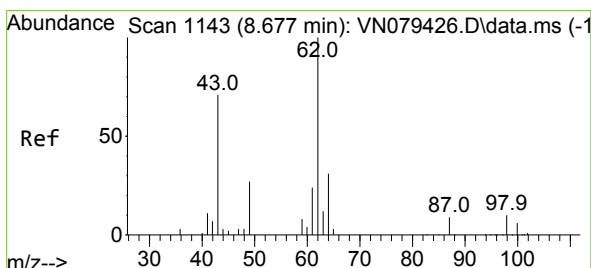
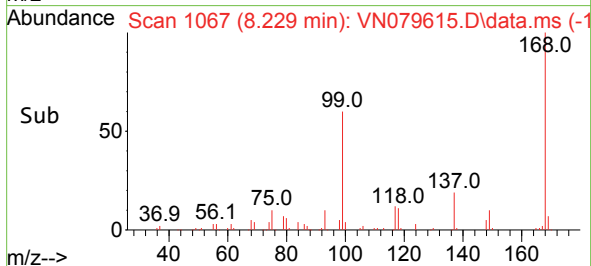
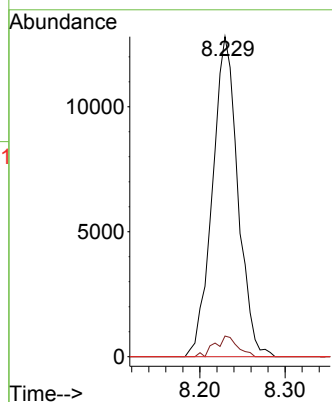
Tgt Ion:117 Resp: 26601

Ion Ratio Lower Upper

117 100

119 6.4 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.202 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN079615.D

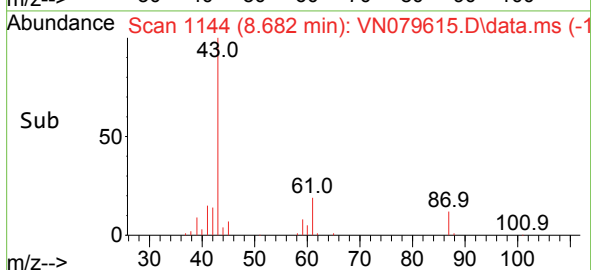
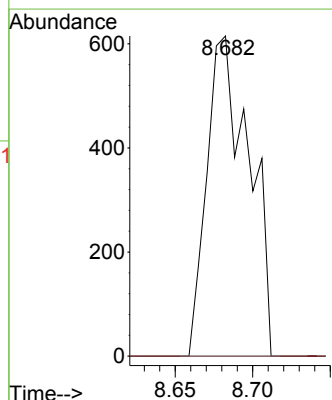
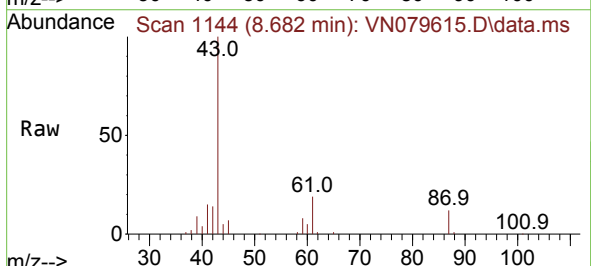
Acq: 19 Oct 2023 13:38

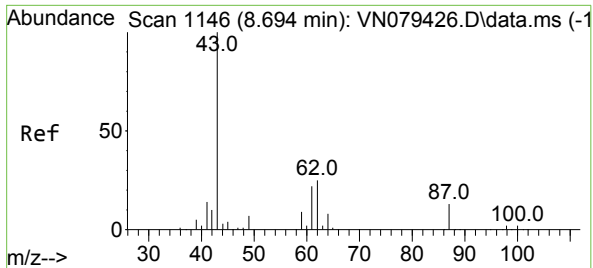
Tgt Ion: 62 Resp: 1160

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

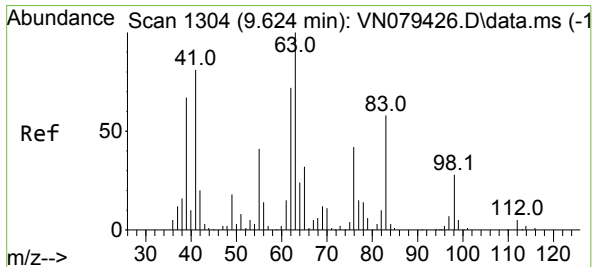
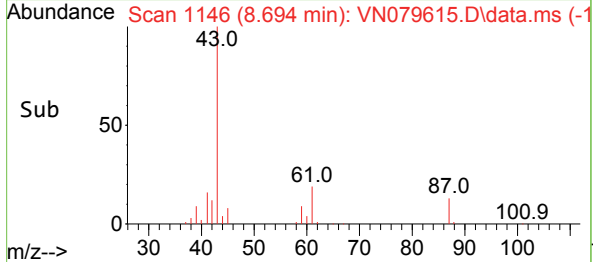
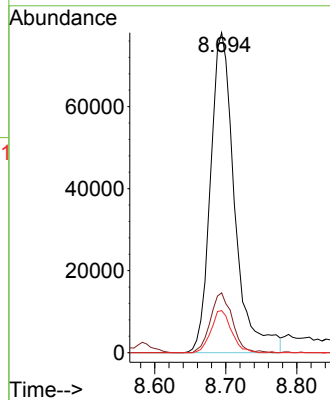
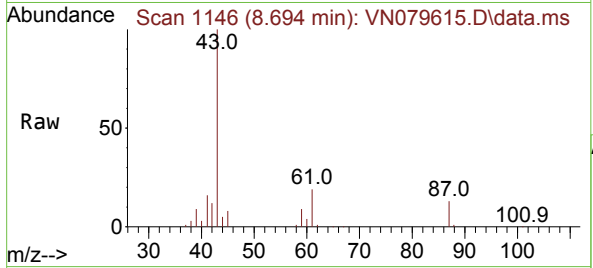




#43
Isopropyl Acetate
Concen: 19.825 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

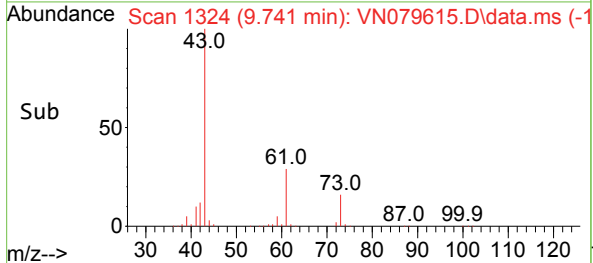
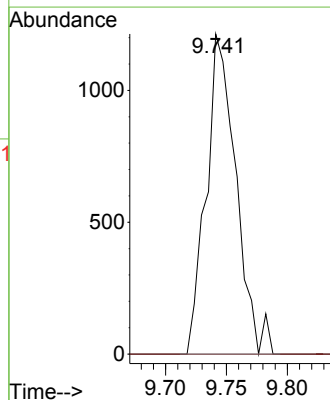
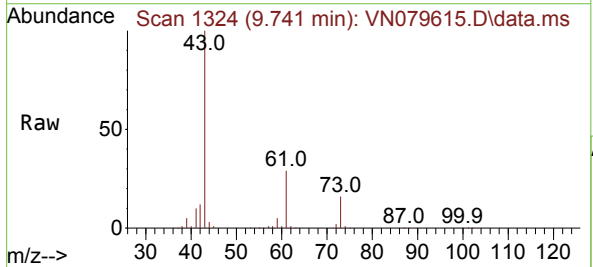
Instrument :
MSVOA_N
ClientSampleId :

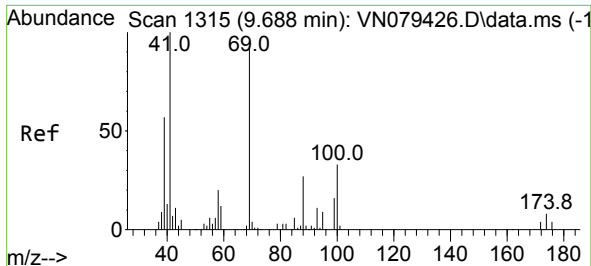
Tgt Ion: 43 Resp: 184003
Ion Ratio Lower Upper
43 100
61 16.9 24.7 37.1#
87 11.1 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.494 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 63 Resp: 2059
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 39.888 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

Instrument :

MSVOA_N

ClientSampleId :

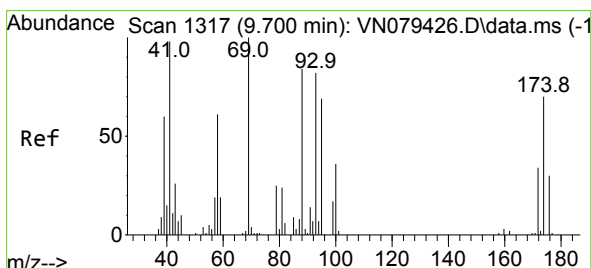
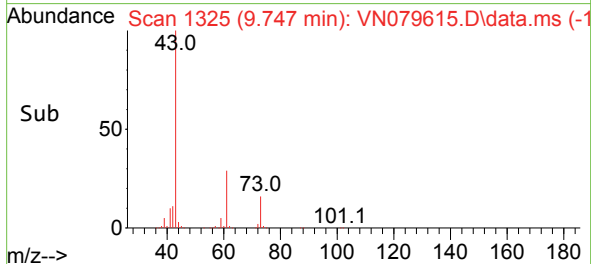
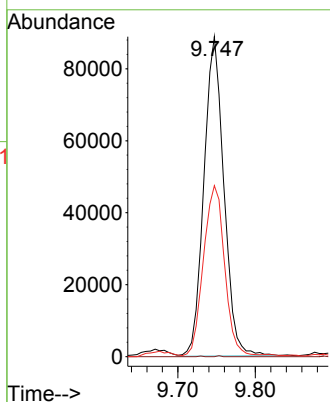
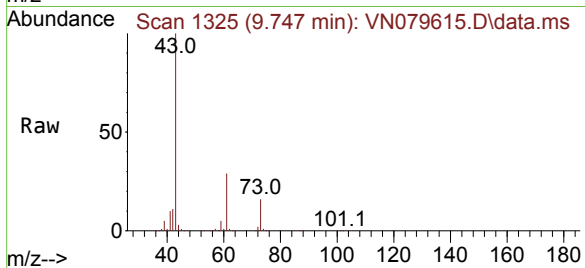
Tgt Ion: 41 Resp: 158647

Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 56.1 54.6 81.8



#49

1,4-Dioxane

Concen: 1.925 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.047 min

Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

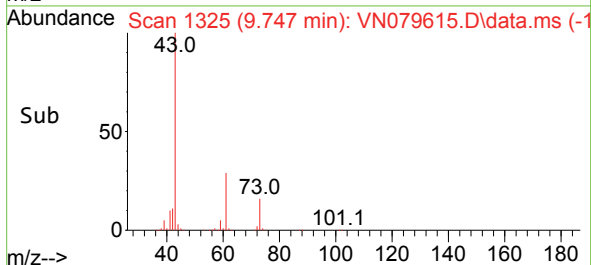
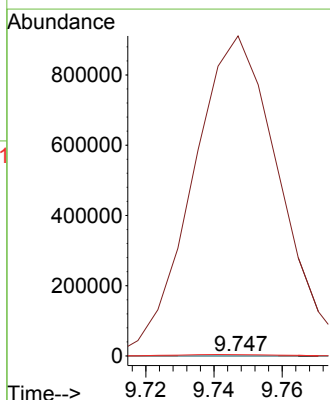
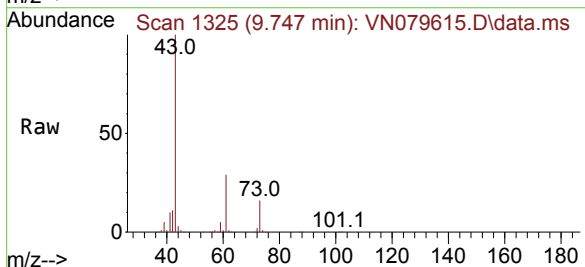
Tgt Ion: 88 Resp: 141

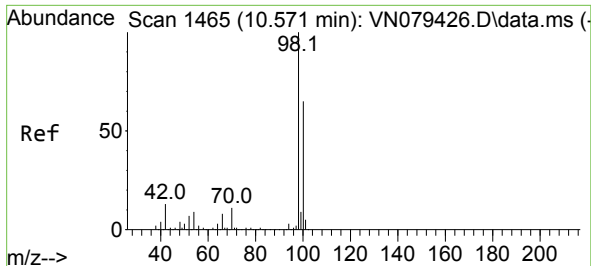
Ion Ratio Lower Upper

88 100

43 1165683.0 17.0 25.6#

58 6381.6 47.0 70.4#

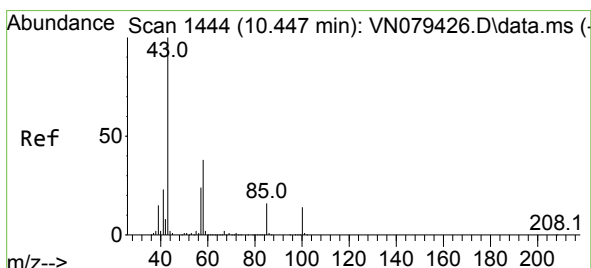
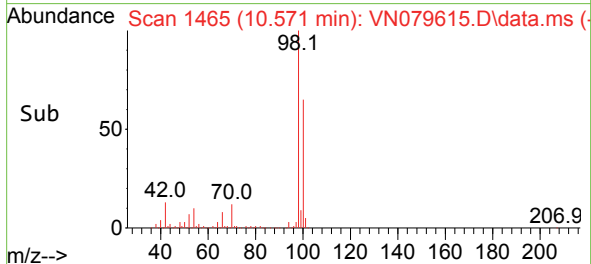
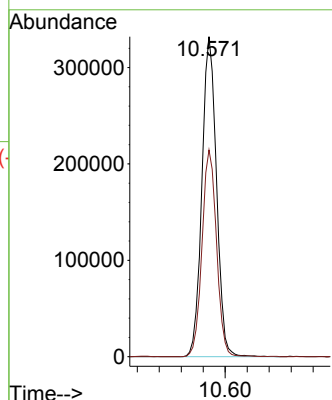
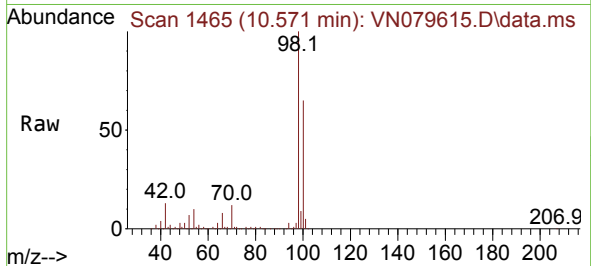




#50
Toluene-d8
Concen: 47.605 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

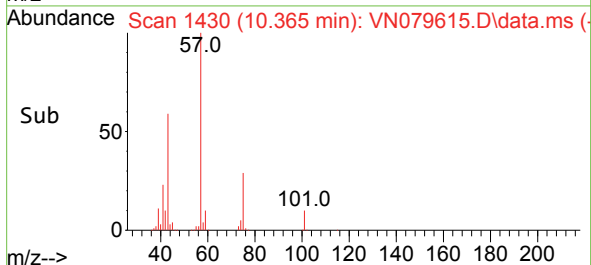
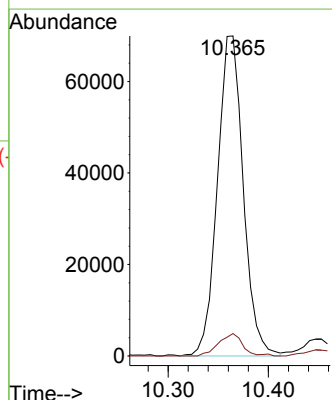
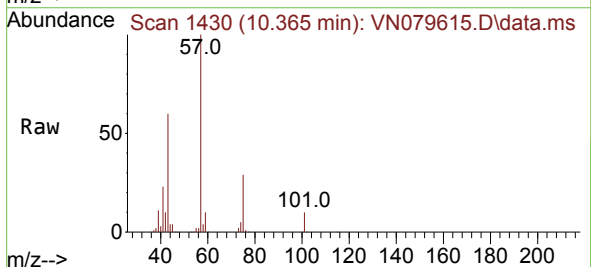
Instrument :
MSVOA_N
ClientSampleId :

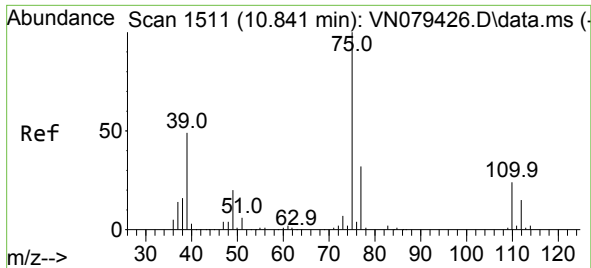
Tgt Ion: 98 Resp: 611036
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 23.896 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 43 Resp: 125200
Ion Ratio Lower Upper
43 100
58 6.5 36.6 54.8#

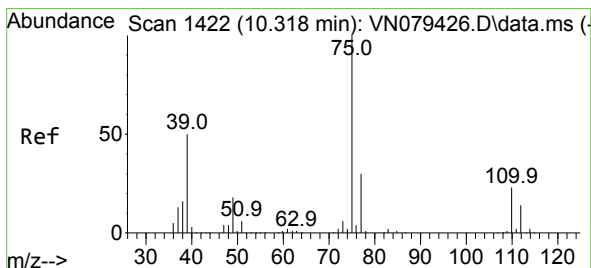
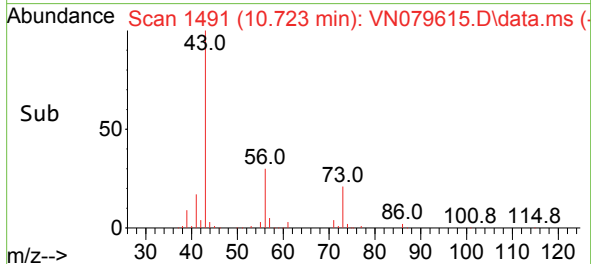
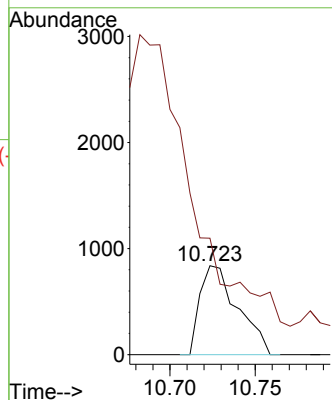
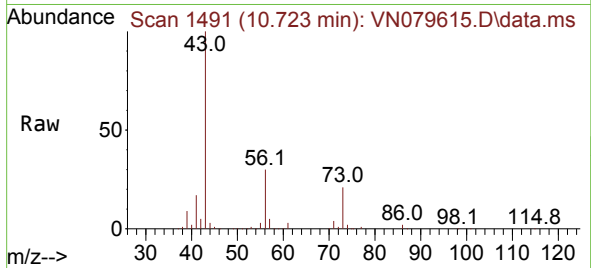




#53
 t-1,3-Dichloropropene
 Concen: 0.231 ug/l
 RT: 10.723 min Scan# 1491
 Delta R.T. -0.118 min
 Lab File: VN079615.D
 Acq: 19 Oct 2023 13:38

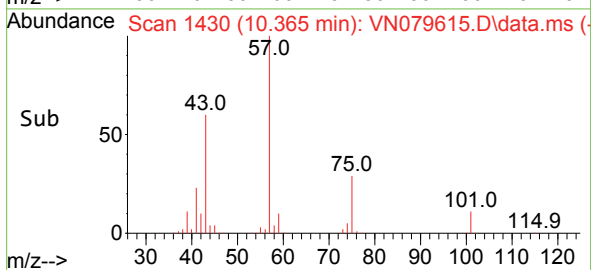
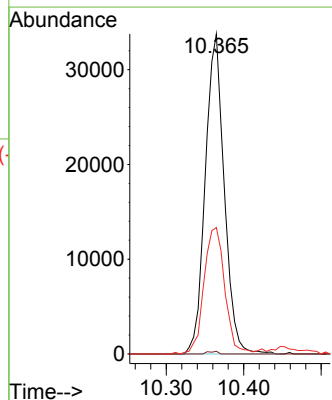
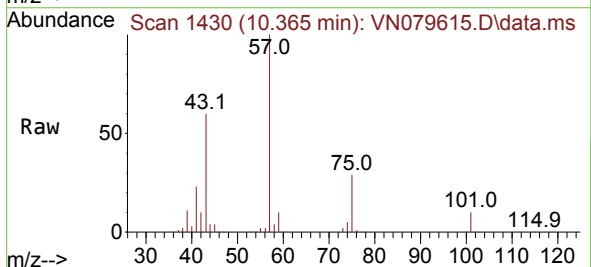
Instrument :
 MSVOA_N
 ClientSampleId :

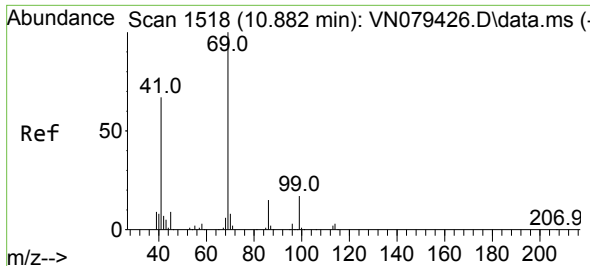
Tgt Ion: 75 Resp: 1294
 Ion Ratio Lower Upper
 75 100
 77 93.8 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 9.363 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079615.D
 Acq: 19 Oct 2023 13:38

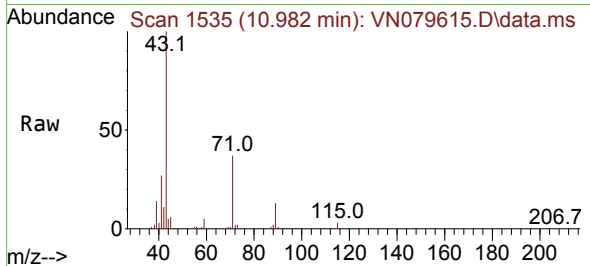
Tgt Ion: 75 Resp: 57327
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.1 39.1#
 39 39.5 31.6 47.4



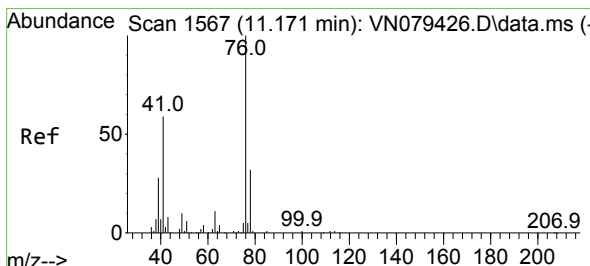
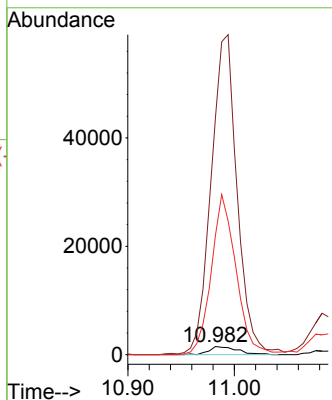
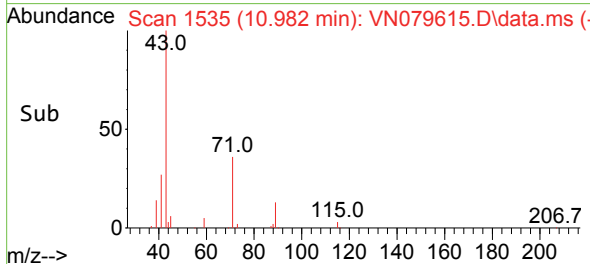


#56
Ethyl methacrylate
Concen: 0.553 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.100 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Instrument :
MSVOA_N
ClientSampleId :

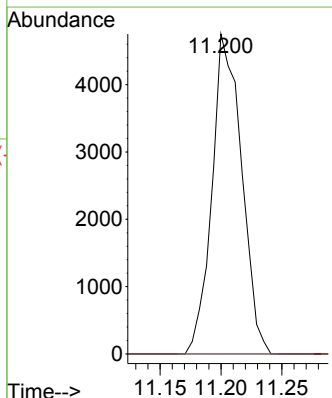
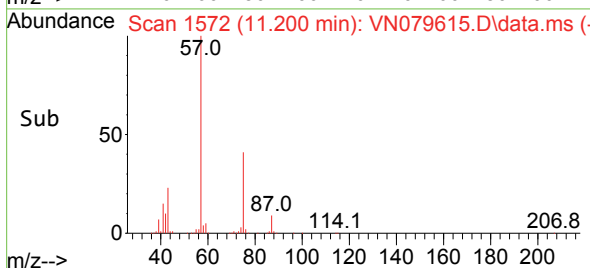
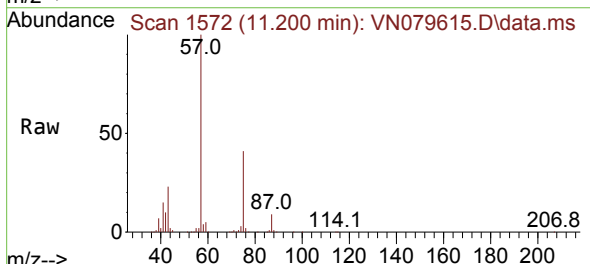


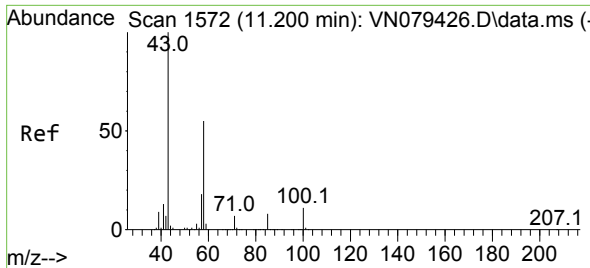
Tgt Ion: 69 Resp: 2838
Ion Ratio Lower Upper
69 100
41 3535.0 39.6 59.4#
39 1680.0 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.246 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.029 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 76 Resp: 8038
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

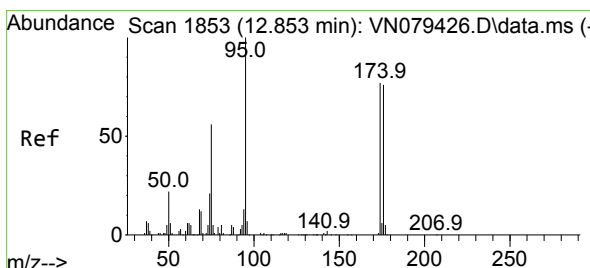
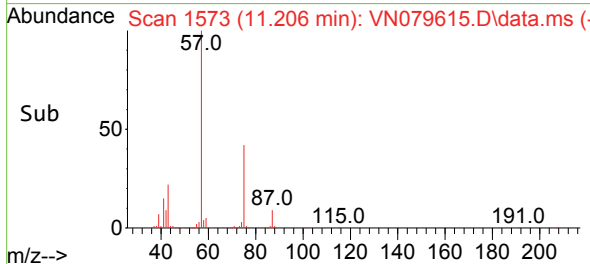
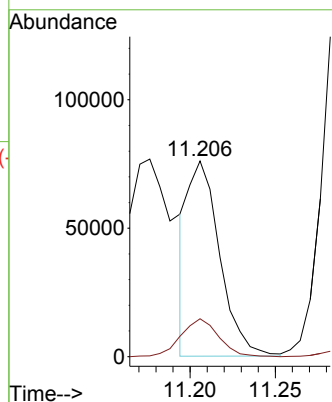
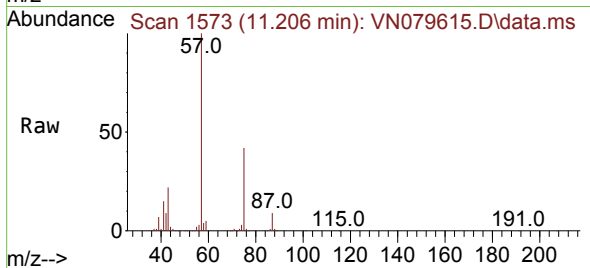




#59
2-Hexanone
Concen: 26.252 ug/l
RT: 11.206 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

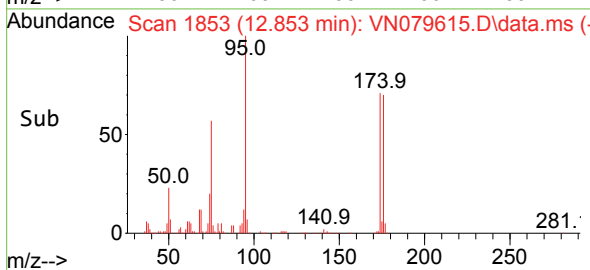
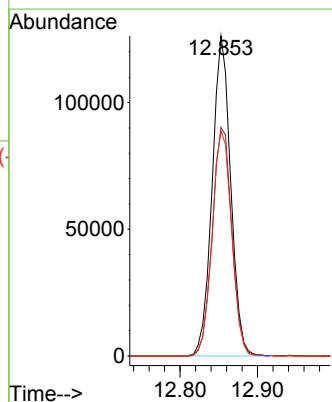
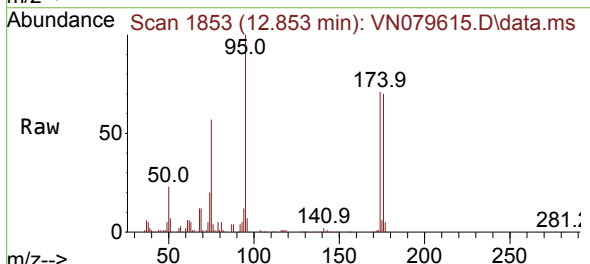
Instrument :
MSVOA_N
ClientSampleId :

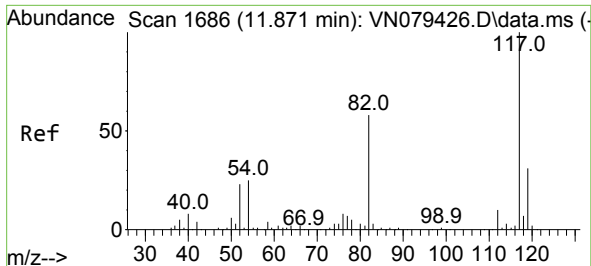
Tgt Ion: 43 Resp: 99255
Ion Ratio Lower Upper
43 100
58 23.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.794 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion: 95 Resp: 209233
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 73.7 0.0 135.8

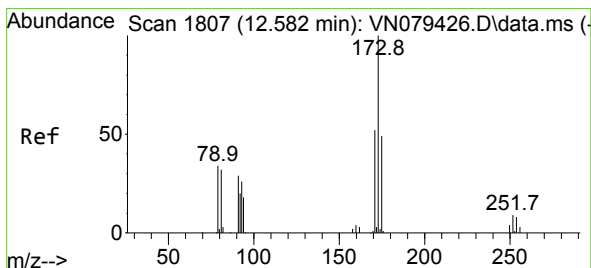
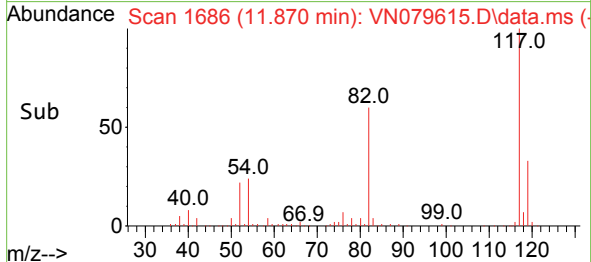
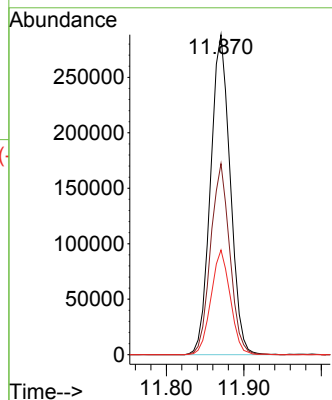
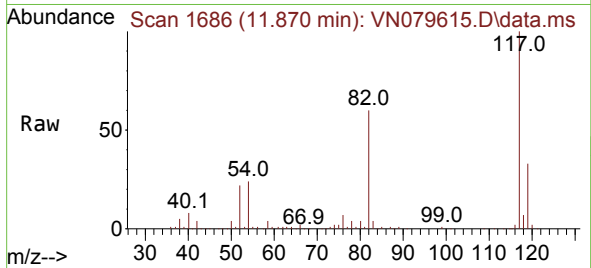




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

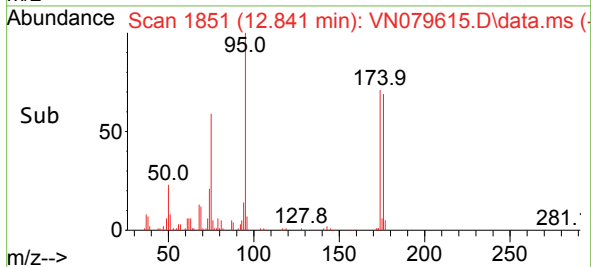
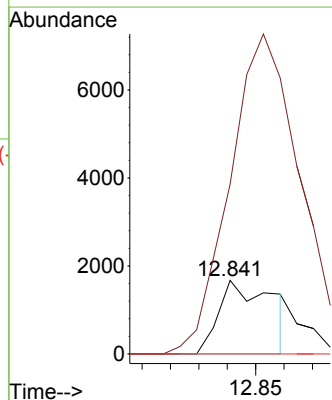
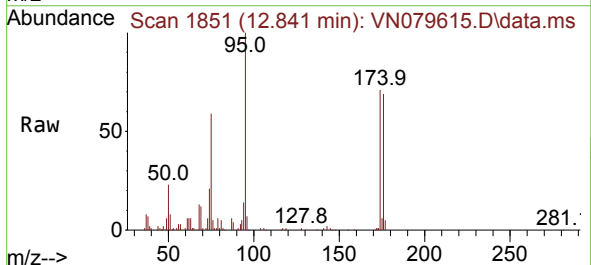
Instrument :
MSVOA_N
ClientSampleId :

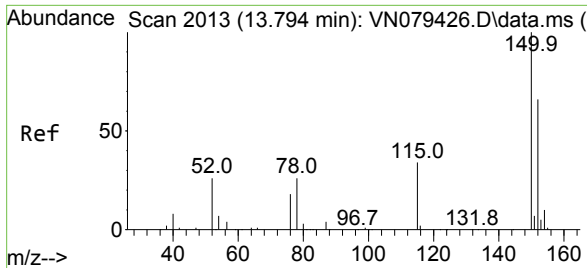
Tgt Ion:117 Resp: 507736
Ion Ratio Lower Upper
117 100
82 59.7 44.0 66.0
119 32.7 25.6 38.4



#71
Bromoform
Concen: 0.724 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.259 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

Tgt Ion:173 Resp: 2194
Ion Ratio Lower Upper
173 100
175 428.6 24.3 73.0#
254 0.0 0.0 0.0

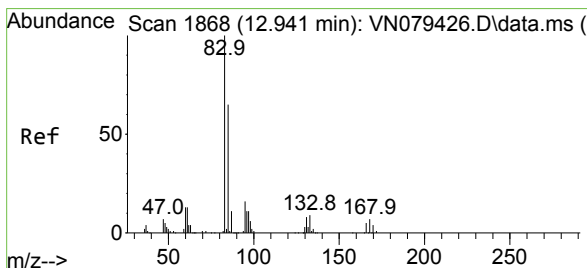
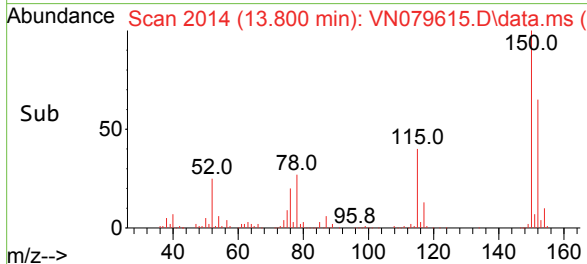
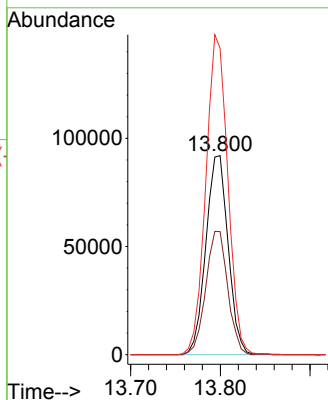
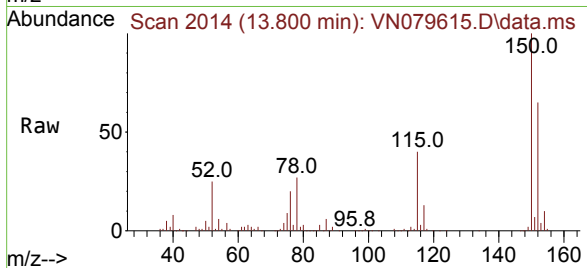




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN079615.D
 Acq: 19 Oct 2023 13:38

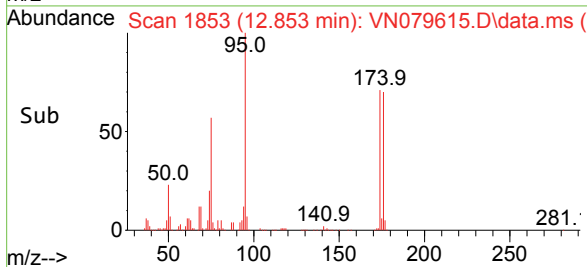
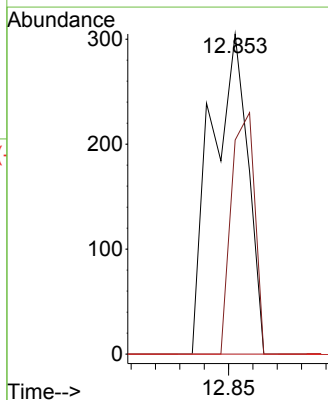
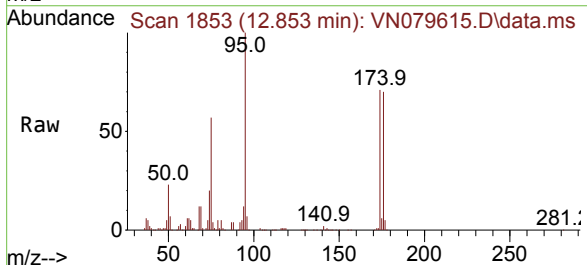
Instrument :
 MSVOA_N
 ClientSampleId :

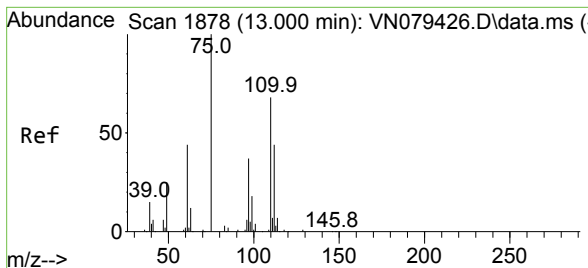
Tgt Ion:152 Resp: 158764
 Ion Ratio Lower Upper
 152 100
 115 61.3 32.3 96.8
 150 158.3 0.0 355.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.088 min
 Lab File: VN079615.D
 Acq: 19 Oct 2023 13:38

Tgt Ion: 83 Resp: 318
 Ion Ratio Lower Upper
 83 100
 131 48.1 5.0 15.0#
 85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 26.186 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

Instrument :

MSVOA_N

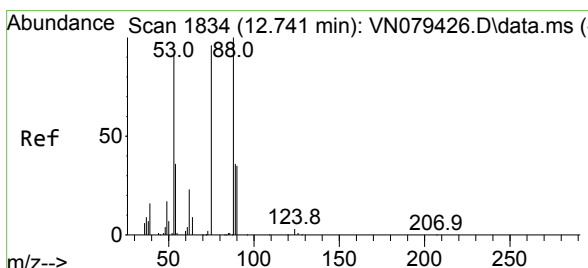
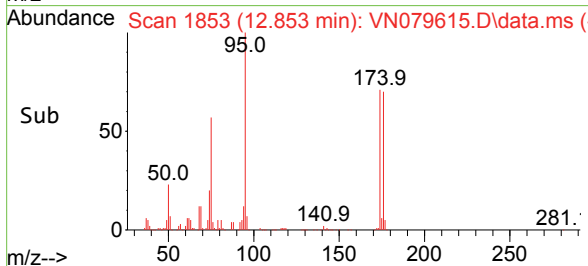
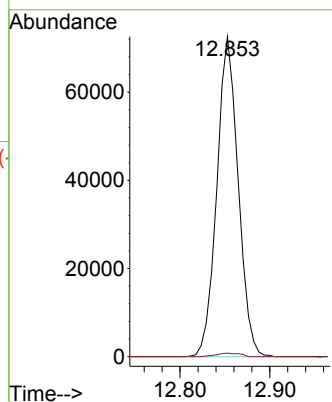
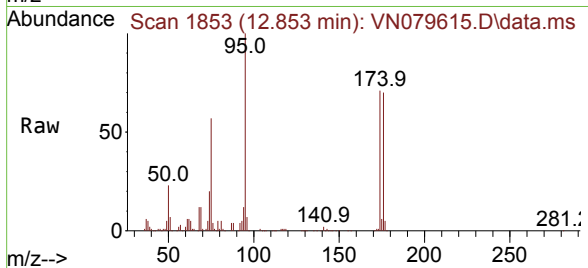
ClientSampleId :

Tgt Ion: 75 Resp: 119870

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.980 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079615.D

Acq: 19 Oct 2023 13:38

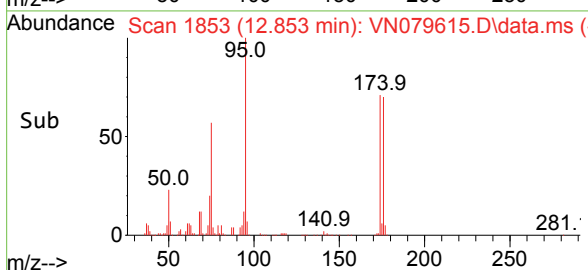
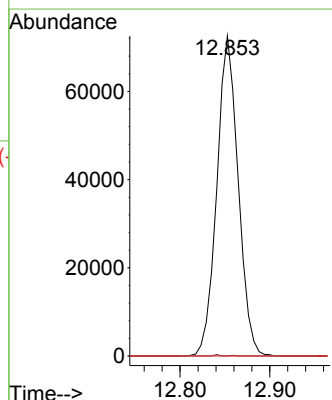
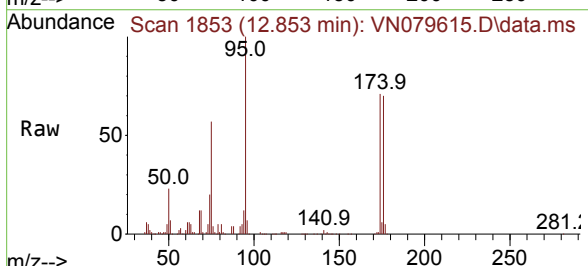
Tgt Ion: 75 Resp: 119870

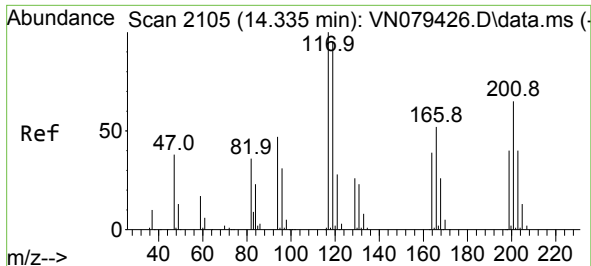
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

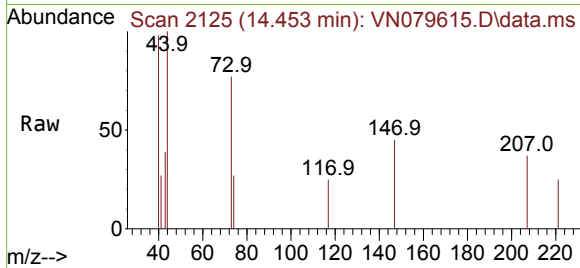
89 0.0 38.8 58.2#



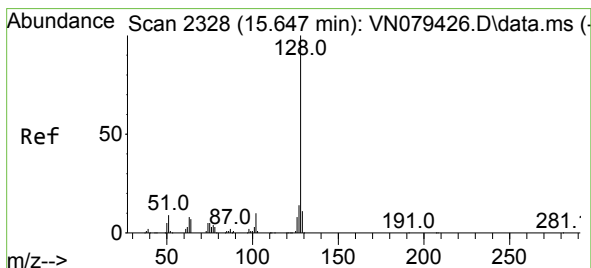
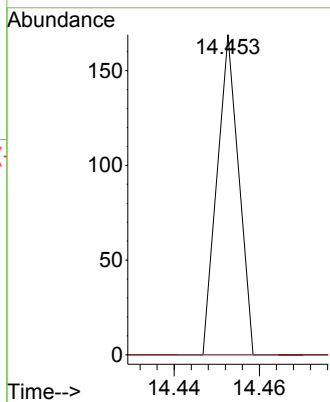
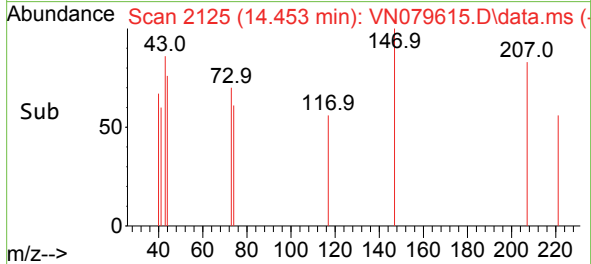


#90
Hexachloroethane
Concen: Below Cal
RT: 14.453 min Scan# 2105
Delta R.T. 0.118 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38

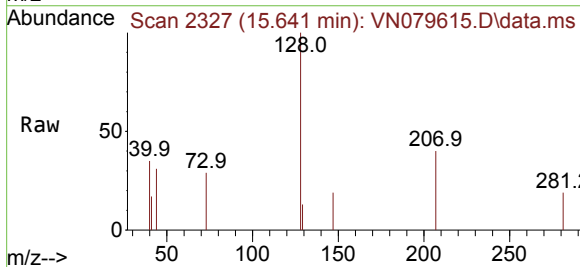
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:117 Resp: 60
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#95
Naphthalene
Concen: 0.452 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN079615.D
Acq: 19 Oct 2023 13:38



Tgt Ion:128 Resp: 2394
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 5.0 8.7 13.1#

