

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060523\
 Data File : VN078056.D
 Acq On : 05 Jun 2023 19:57
 Operator : JC\MD
 Sample : 03018-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 278

Quant Time: Jun 06 02:07:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

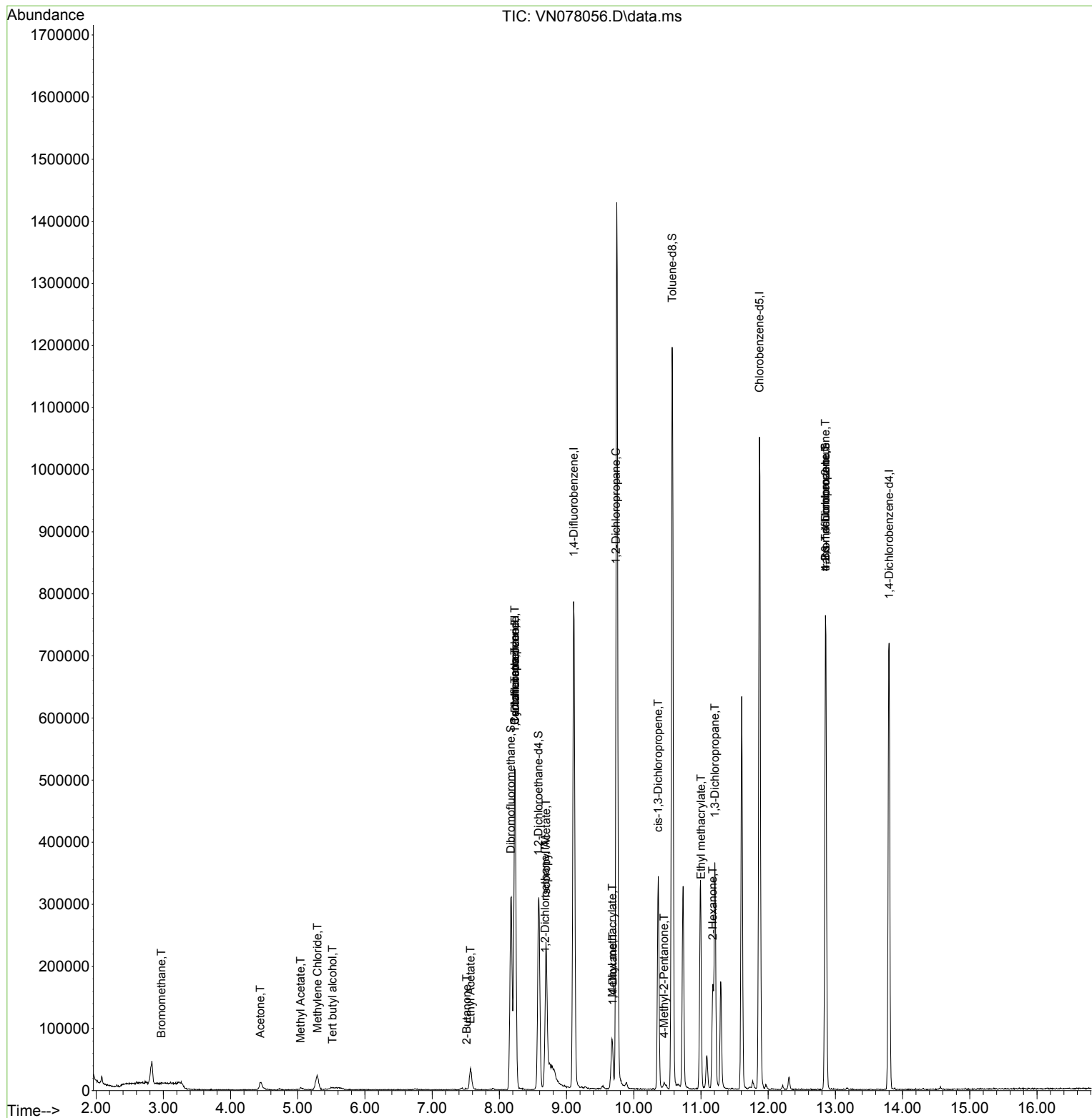
Internal Standards						
1) Pentafluorobenzene	8.230	168	372947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	698768	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	633761	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	197436	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	258612	46.344	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.680%
35) Dibromofluoromethane	8.171	113	223425	49.033	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.060%
50) Toluene-d8	10.571	98	870419	49.629	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.260%
62) 4-Bromofluorobenzene	12.853	95	280705	45.317	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	872	Below Cal		96
5) Bromomethane	2.971	94	1701	0.430 ug/l #		80
11) Tert butyl alcohol	5.518	59	477	0.619 ug/l #		72
13) Acrolein	3.965	56	59	Below Cal #		16
16) Acetone	4.442	43	22777	12.974 ug/l		96
18) Methyl Acetate	5.042	43	7201	0.978 ug/l #		63
20) Methylene Chloride	5.294	84	17419	1.912 ug/l		91
25) 2-Butanone	7.512	43	2744	0.999 ug/l		99
31) Cyclohexane	8.230	56	8685	1.145 ug/l #		51
36) 1,1-Dichloropropene	8.235	75	31623	4.745 ug/l #		49
37) Ethyl Acetate	7.571	43	50651	8.527 ug/l		94
38) Carbon Tetrachloride	8.230	117	39144	5.816 ug/l #		16
42) 1,2-Dichloroethane	8.682	62	1737	0.243 ug/l #		73
43) Isopropyl Acetate	8.694	43	281291	28.990 ug/l #		78
45) 1,2-Dichloropropane	9.735	63	1991	0.397 ug/l #		45
48) Methyl methacrylate	9.682	41	5306	1.153 ug/l #		26
49) 1,4-Dioxane	9.688	88	73	0.840 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	6584	1.142 ug/l		89
54) cis-1,3-Dichloropropene	10.365	75	63022	7.858 ug/l #		70
56) Ethyl methacrylate	11.000	69	1531	0.208 ug/l #		1
57) 1,3-Dichloropropane	11.206	76	3760	0.451 ug/l #		42
59) 2-Hexanone	11.176	43	167900	39.358 ug/l #		19
76) 1,2,3-Trichloropropane	12.853	75	146698	29.669 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	146698	94.837 ug/l #		15

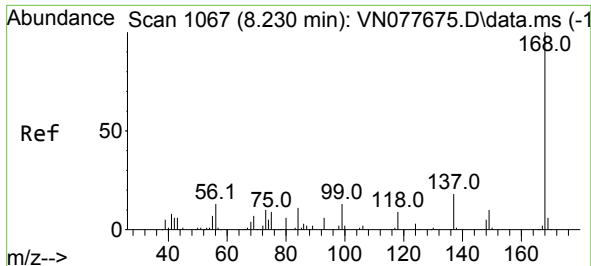
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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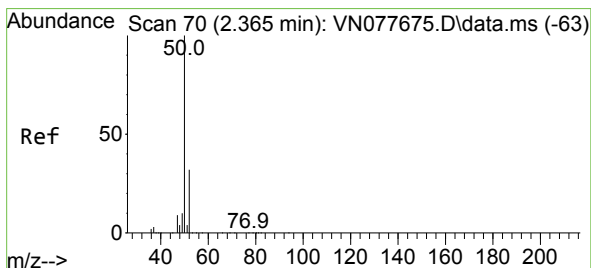
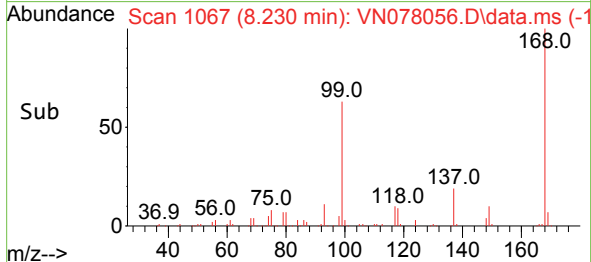
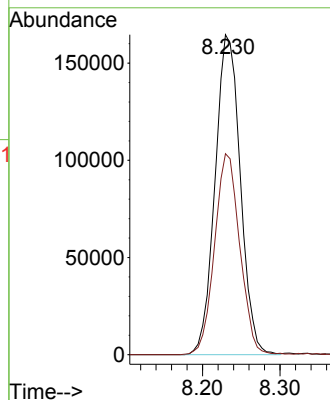
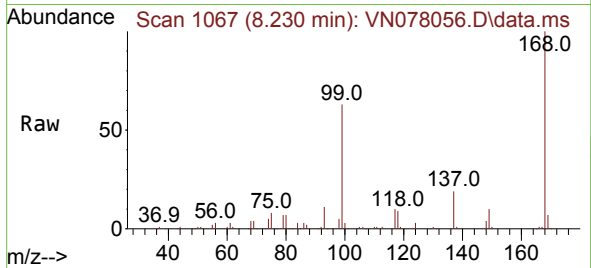




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

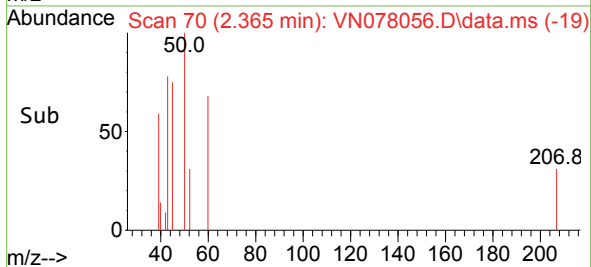
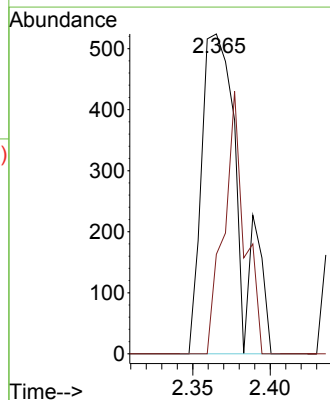
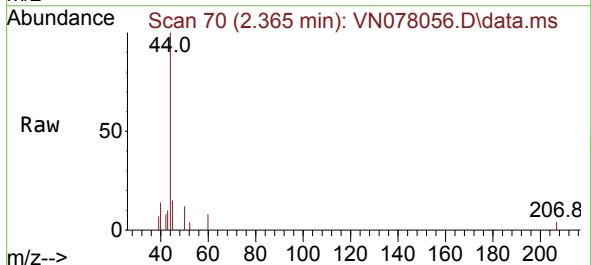
Instrument :
MSVOA_N
ClientSampleId :
278

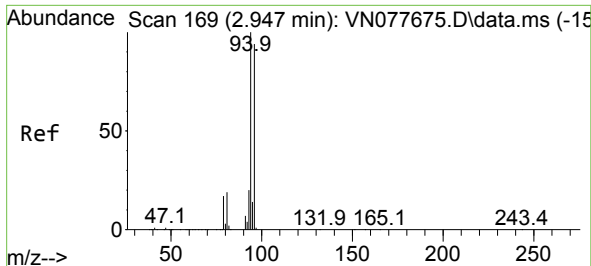
Tgt Ion:168 Resp: 372947
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 50 Resp: 872
Ion Ratio Lower Upper
50 100
52 31.1 26.5 39.7

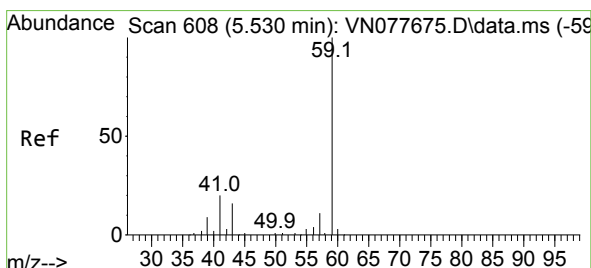
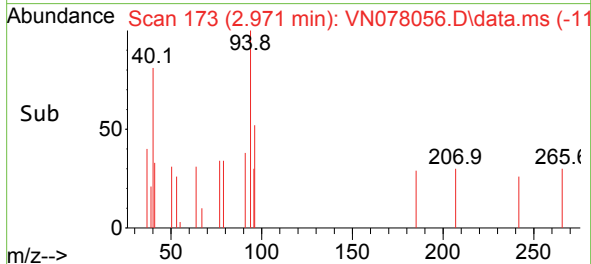
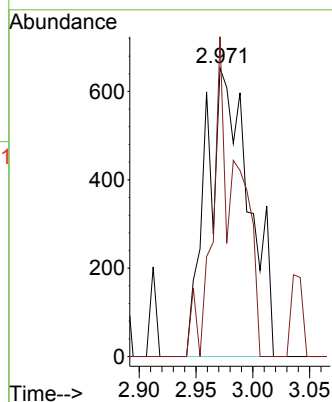
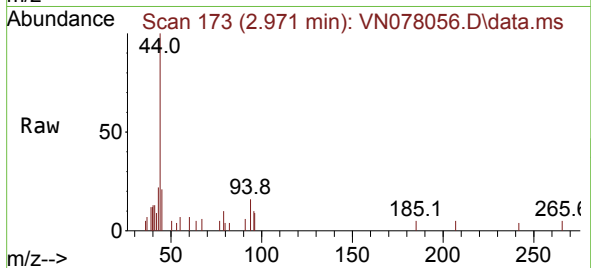




#5
Bromomethane
Concen: 0.430 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

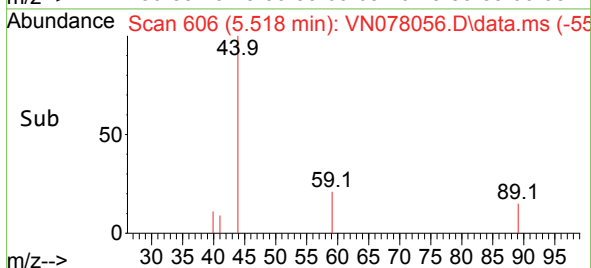
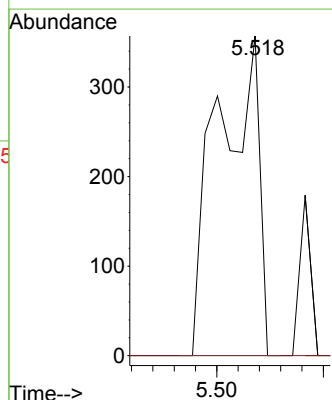
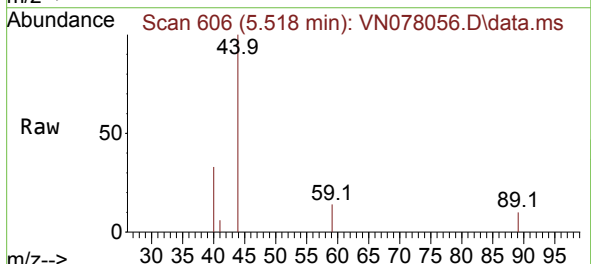
Instrument :
MSVOA_N
ClientSampleId :
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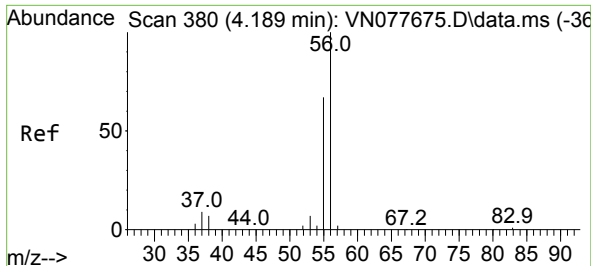
Tgt Ion: 94 Resp: 1701
Ion Ratio Lower Upper
94 100
96 110.9 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.619 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.012 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 59 Resp: 477
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

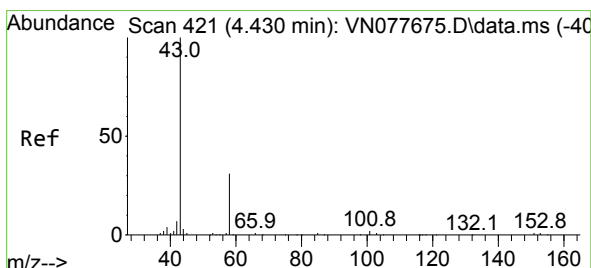
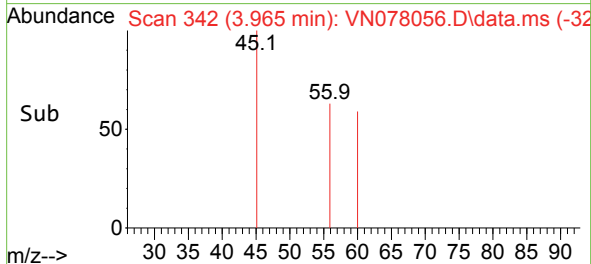
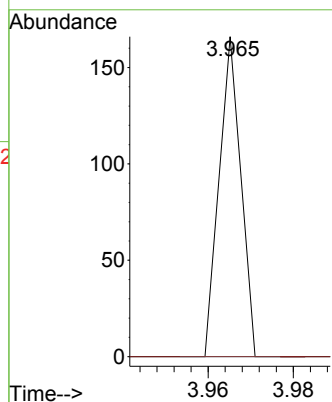
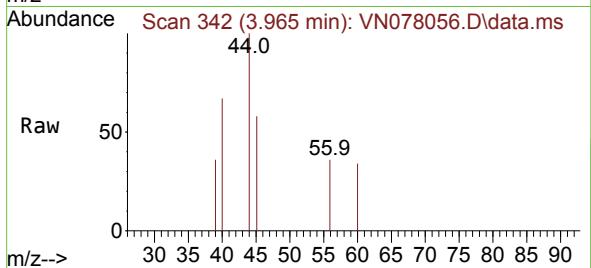




#13
Acrolein
Concen: Below Cal
RT: 3.965 min Scan# 34
Delta R.T. -0.224 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

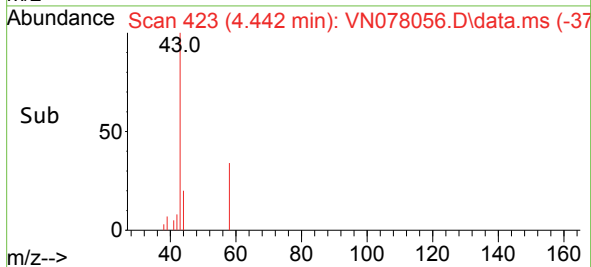
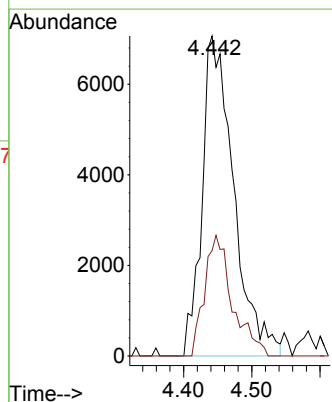
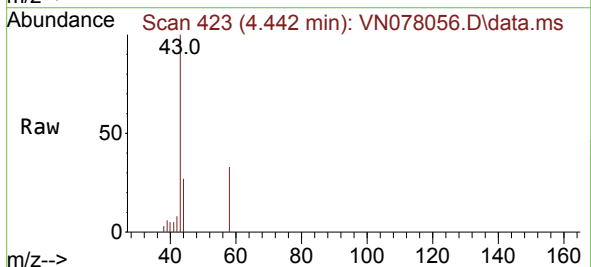
Instrument :
MSVOA_N
ClientSampleId :
278

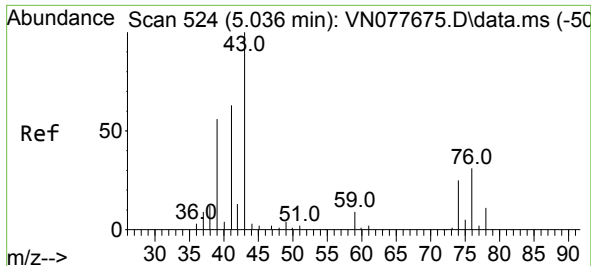
Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 12.974 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 43 Resp: 22777
Ion Ratio Lower Upper
43 100
58 32.9 28.0 42.0

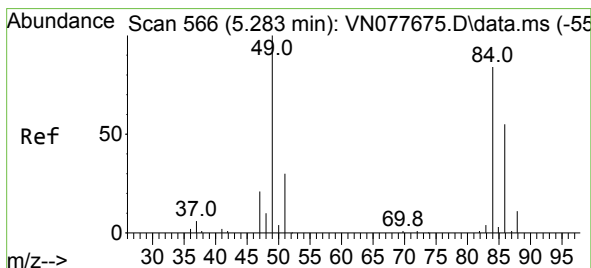
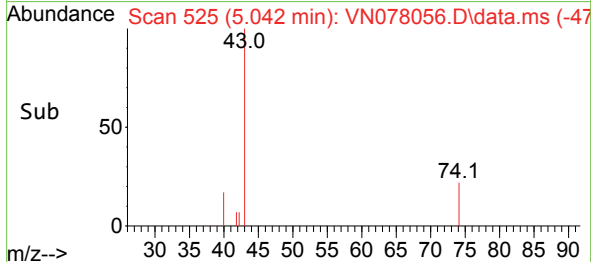
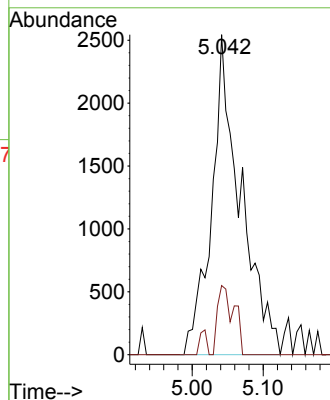
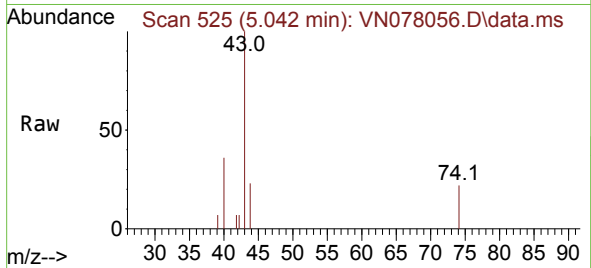




#18
Methyl Acetate
Concen: 0.978 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

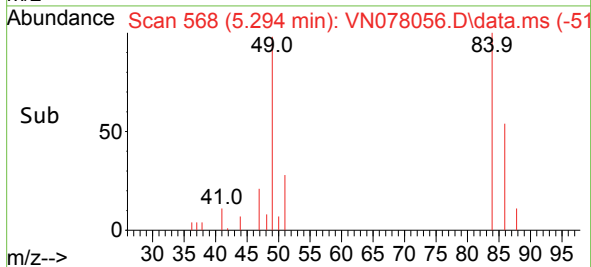
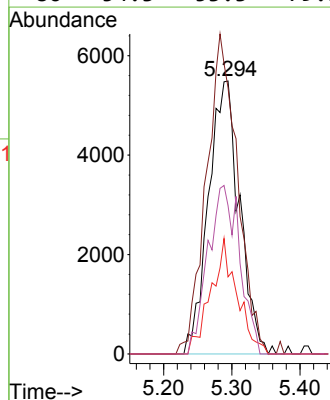
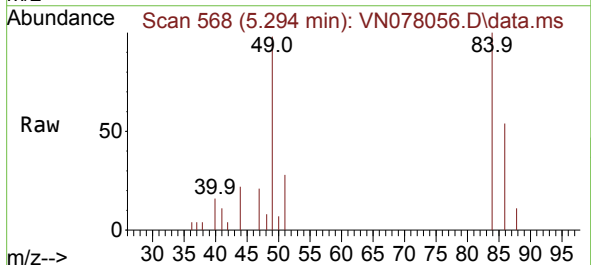
Instrument :
MSVOA_N
ClientSampleId :
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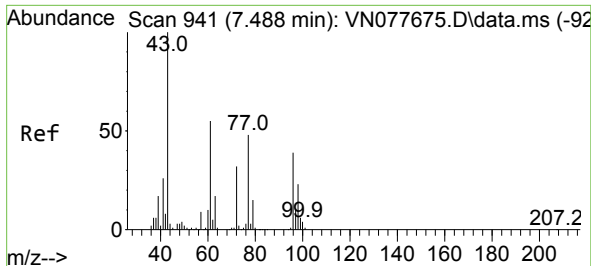
Tgt Ion: 43 Resp: 7201
Ion Ratio Lower Upper
43 100
74 12.2 26.2 39.4#



#20
Methylene Chloride
Concen: 1.912 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 84 Resp: 17419
Ion Ratio Lower Upper
84 100
49 94.1 79.7 119.5
51 28.3 25.2 37.8
86 54.3 53.3 79.9

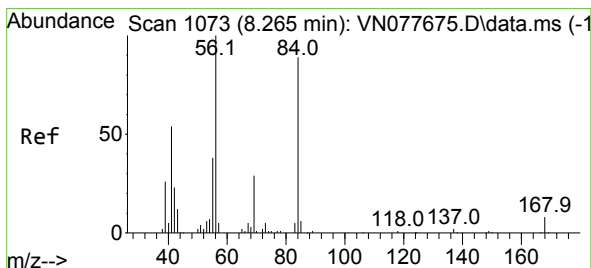
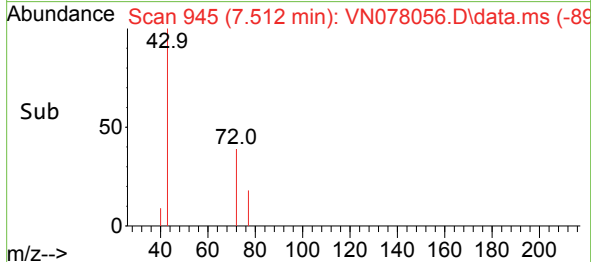
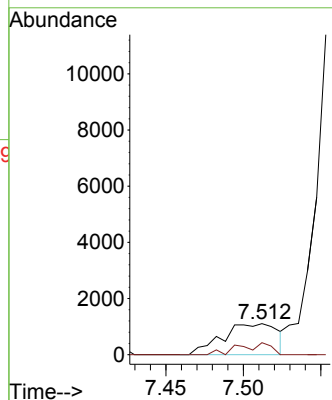
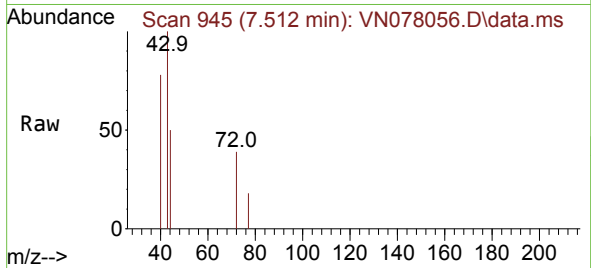




#25
2-Butanone
Concen: 0.999 ug/l
RT: 7.512 min Scan# 941
Delta R.T. 0.024 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

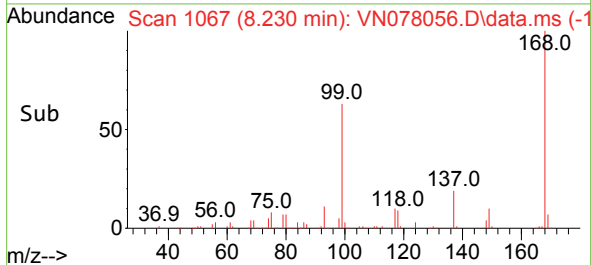
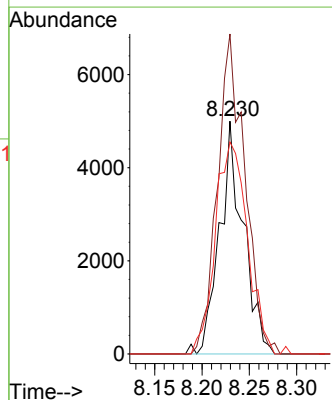
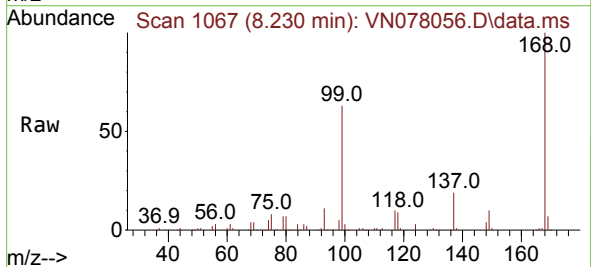
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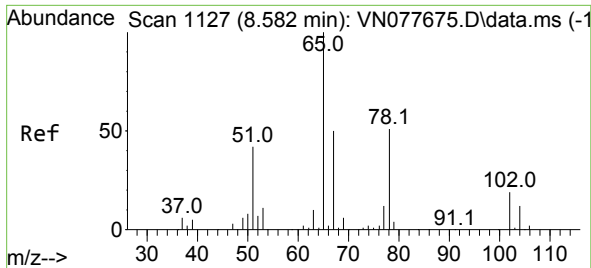
Tgt Ion: 43 Resp: 2744
Ion Ratio Lower Upper
43 100
72 38.6 30.2 45.2



#31
Cyclohexane
Concen: 1.145 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 56 Resp: 8685
Ion Ratio Lower Upper
56 100
69 137.5 26.8 40.2#
84 96.3 81.8 122.6

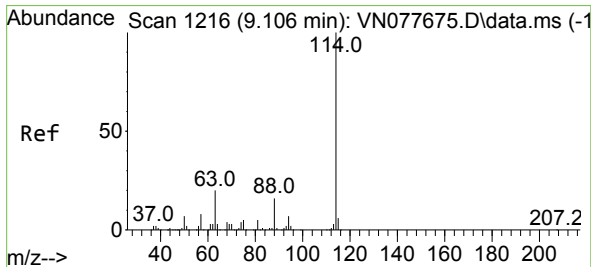
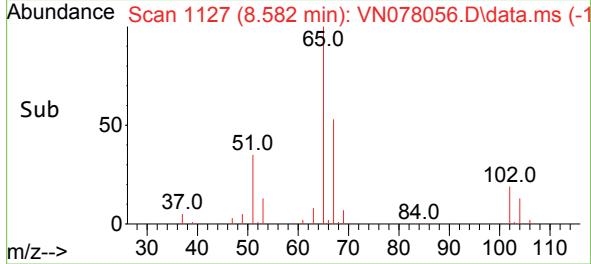
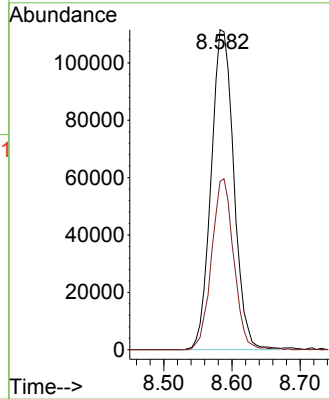
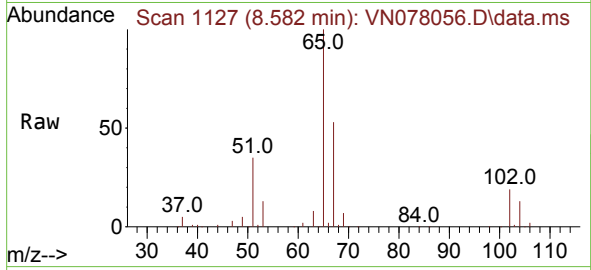




#33
 1,2-Dichloroethane-d4
 Concen: 46.344 ug/l
 RT: 8.582 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VN078056.D
 Acq: 05 Jun 2023 19:57

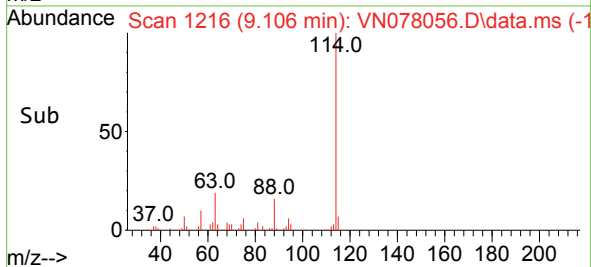
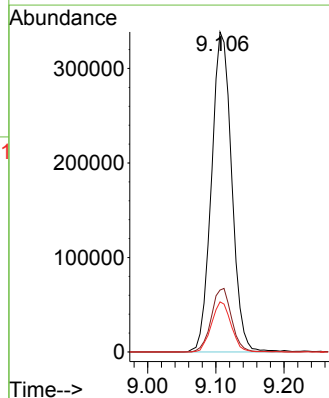
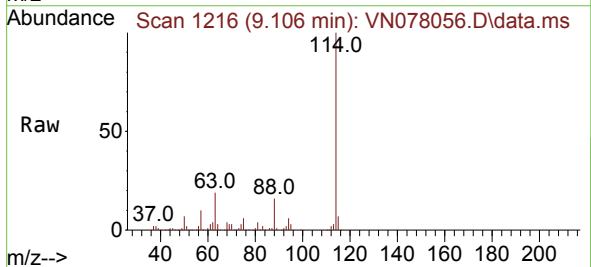
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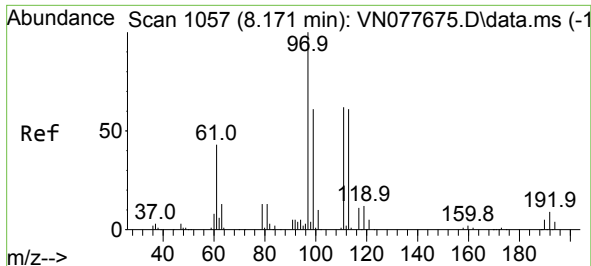
Tgt Ion: 65 Resp: 258612
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. -0.000 min
 Lab File: VN078056.D
 Acq: 05 Jun 2023 19:57

Tgt Ion: 114 Resp: 698768
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 36.4
 88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.033 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

Instrument :

MSVOA_N

ClientSampleId :

278

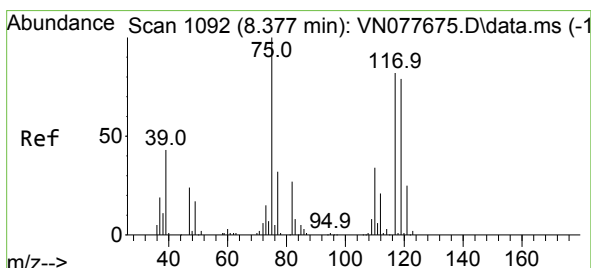
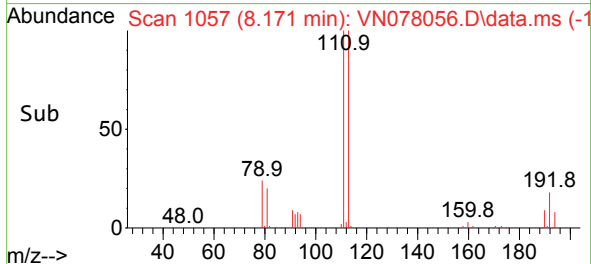
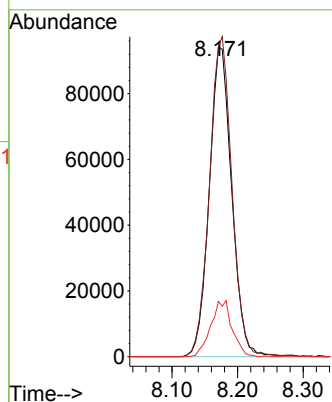
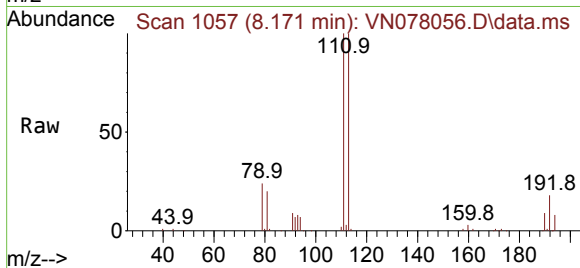
Tgt Ion:113 Resp: 223425

Ion Ratio Lower Upper

113 100

111 103.8 82.6 123.8

192 17.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.745 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

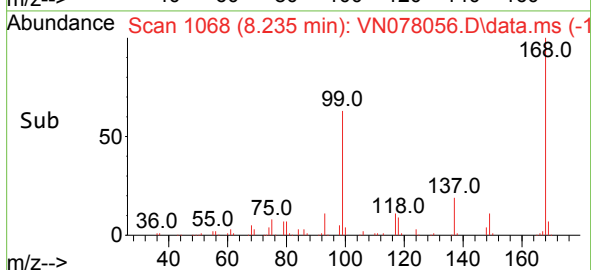
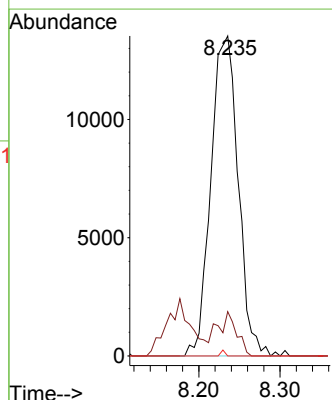
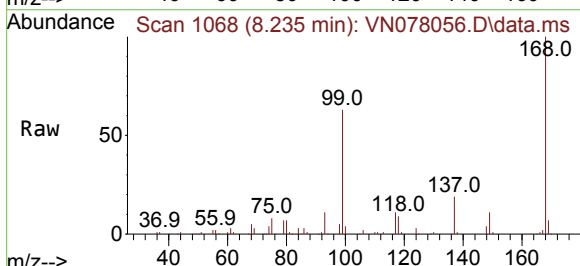
Tgt Ion: 75 Resp: 31623

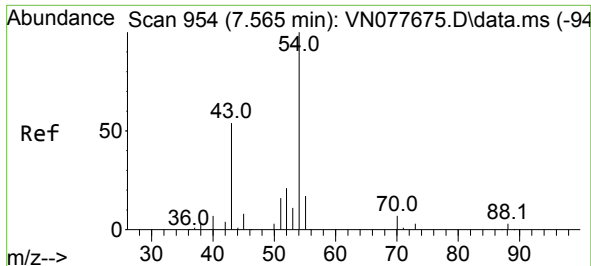
Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.3 25.0 37.4#





#37

Ethyl Acetate

Concen: 8.527 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

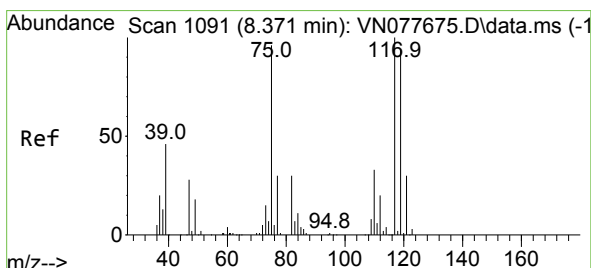
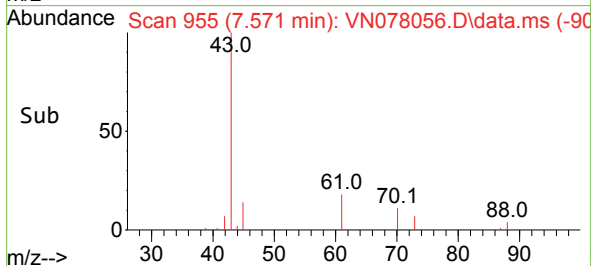
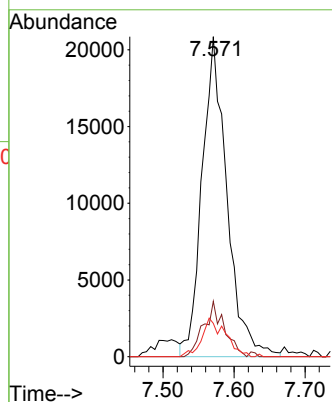
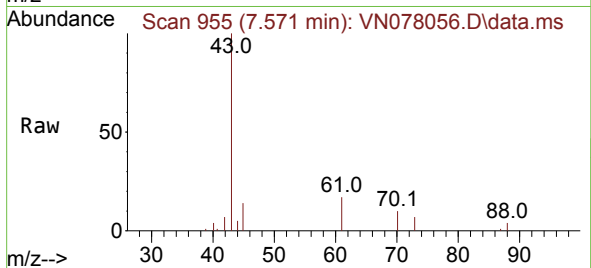
Instrument :

MSVOA_N

ClientSampleId :

278

Tgt Ion:	43	Resp:	50651
Ion	Ratio	Lower	Upper
43	100		
61	14.4	13.2	19.8
70	11.5	11.3	16.9



#38

Carbon Tetrachloride

Concen: 5.816 ug/l

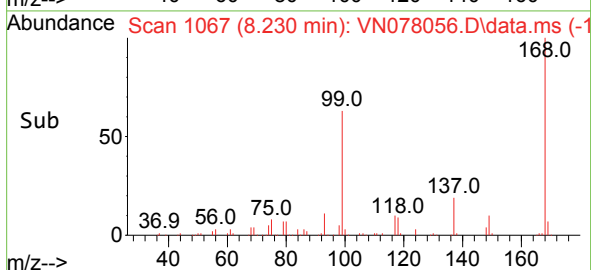
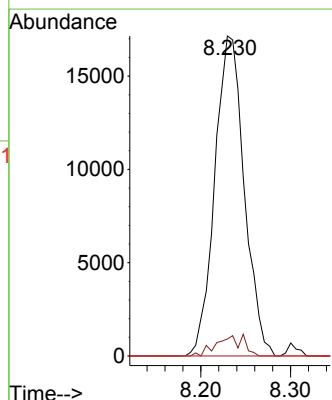
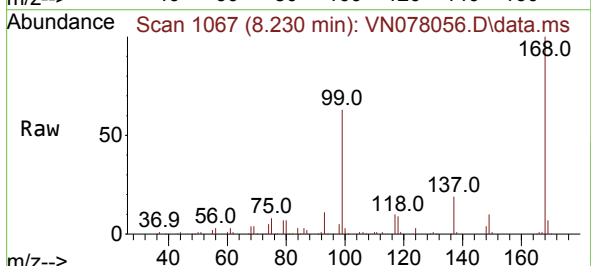
RT: 8.230 min Scan# 1067

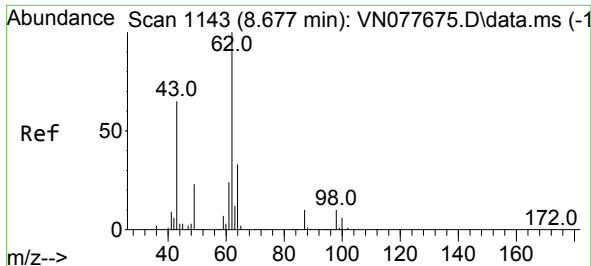
Delta R.T. -0.141 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

Tgt Ion:	117	Resp:	39144
Ion	Ratio	Lower	Upper
117	100		
119	5.3	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.243 ug/l

RT: 8.682 min Scan# 1143

Delta R.T. 0.005 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

Instrument :

MSVOA_N

ClientSampleId :

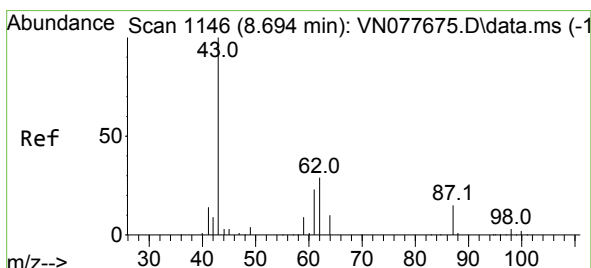
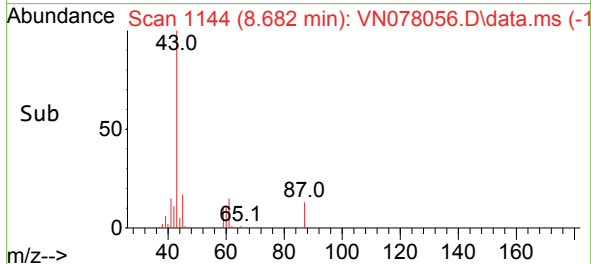
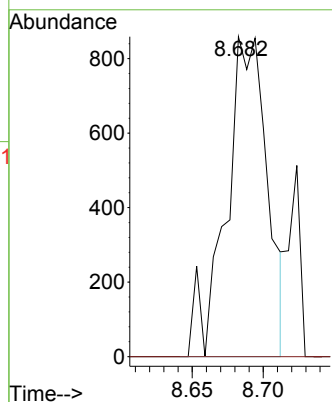
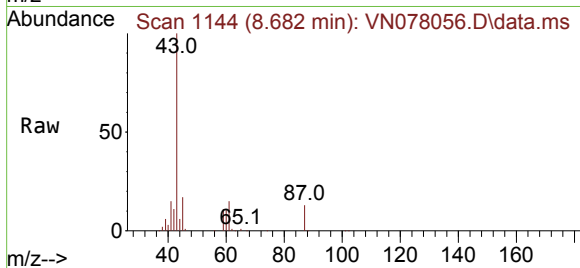
278

Tgt Ion: 62 Resp: 1737

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 28.990 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

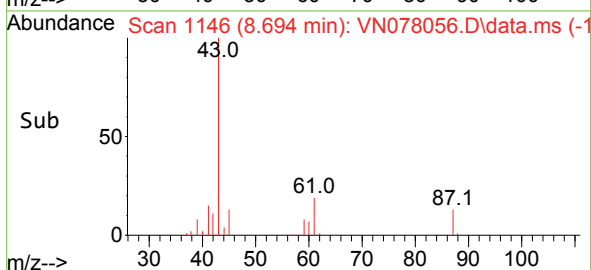
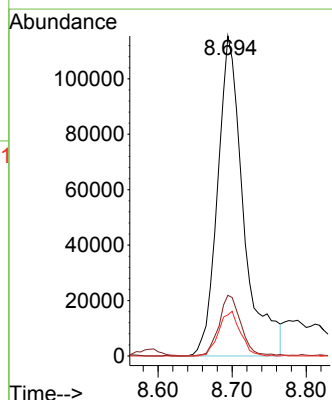
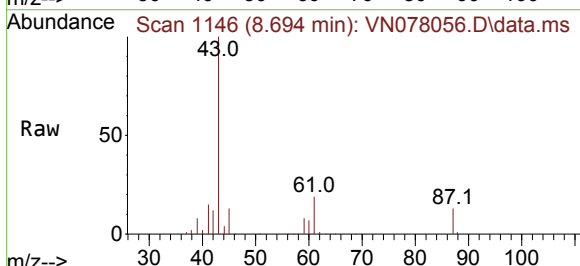
Tgt Ion: 43 Resp: 281291

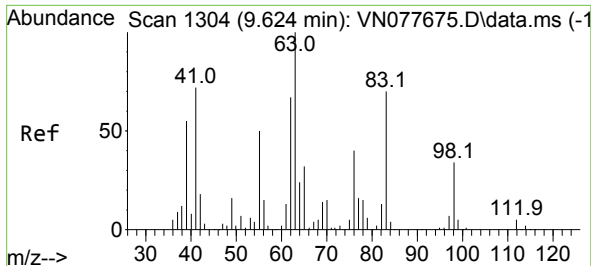
Ion Ratio Lower Upper

43 100

61 16.2 24.7 37.1#

87 11.6 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.397 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.111 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

Instrument :

MSVOA_N

ClientSampleId :

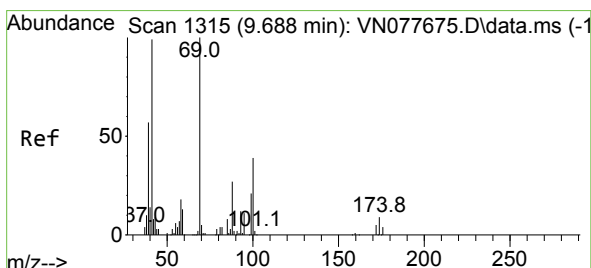
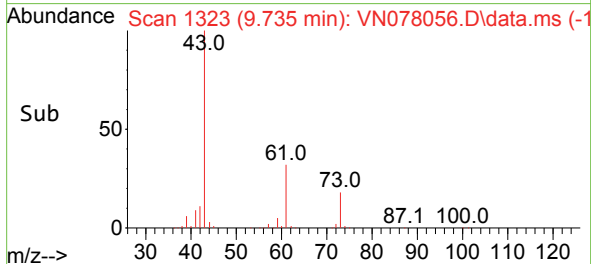
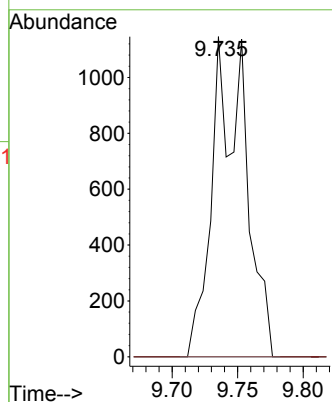
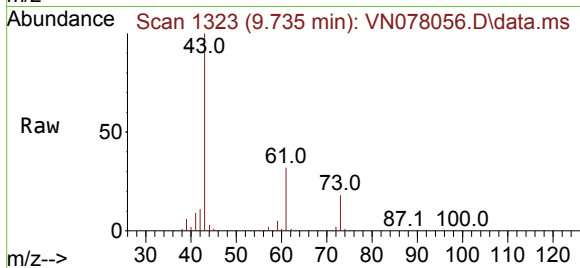
278

Tgt Ion: 63 Resp: 1991

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.153 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

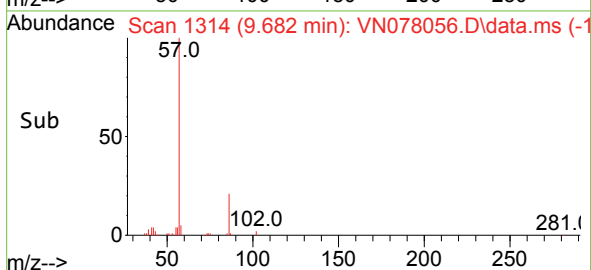
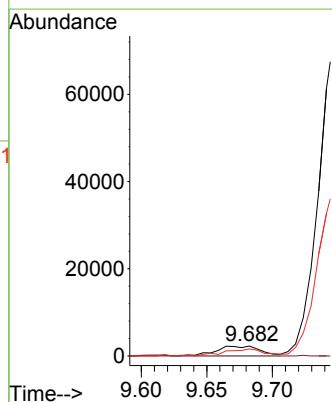
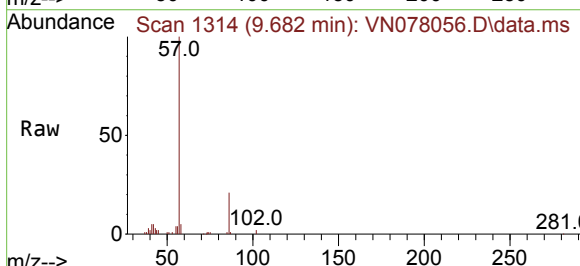
Tgt Ion: 41 Resp: 5306

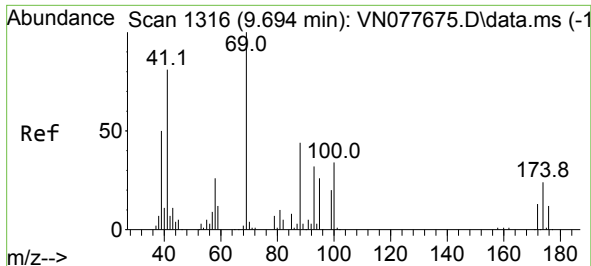
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 50.5 54.6 81.8#





#49

1,4-Dioxane

Concen: 0.840 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078056.D

Acq: 05 Jun 2023 19:57

Instrument :

MSVOA_N

ClientSampleId :

278

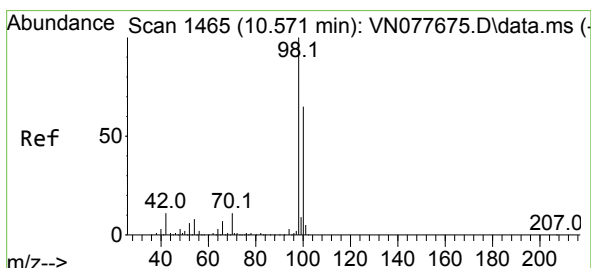
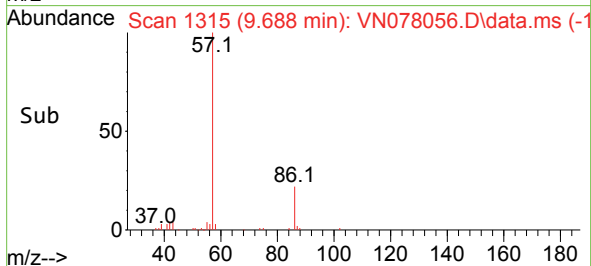
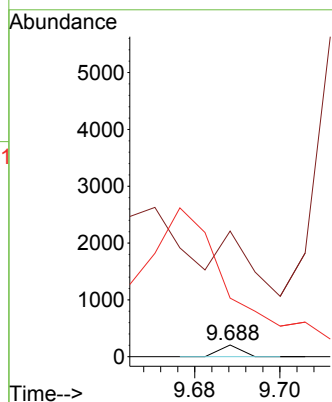
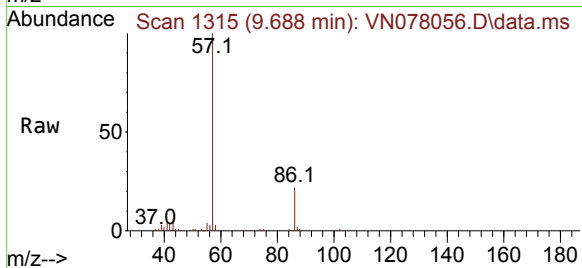
Tgt Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 6191.8 47.0 70.4#



#50

Toluene-d8

Concen: 49.629 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078056.D

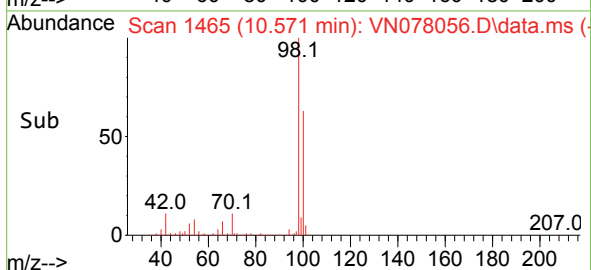
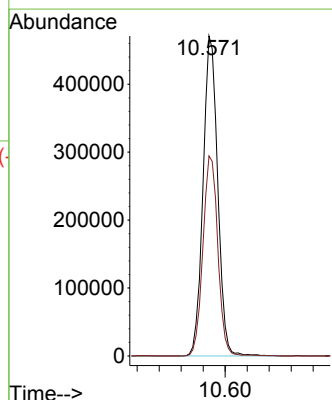
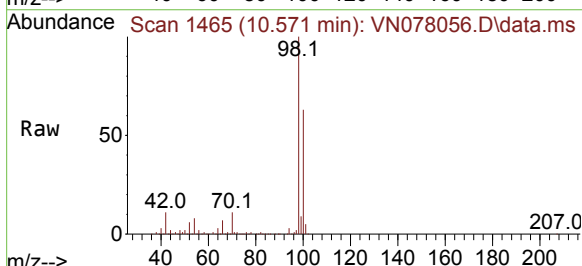
Acq: 05 Jun 2023 19:57

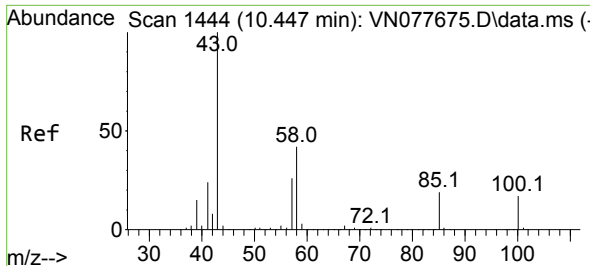
Tgt Ion: 98 Resp: 870419

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0

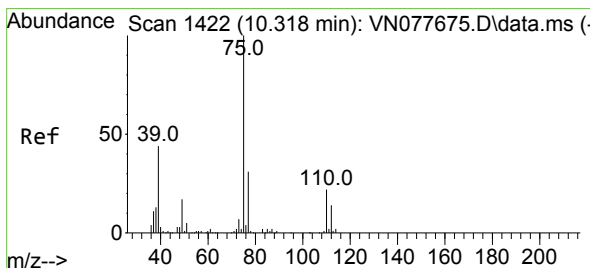
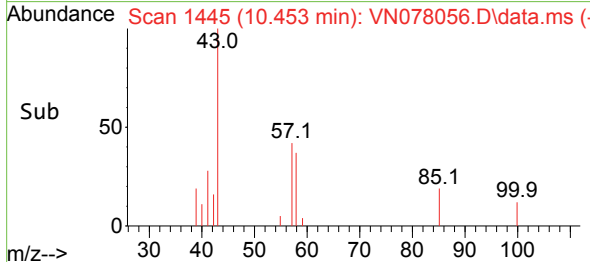
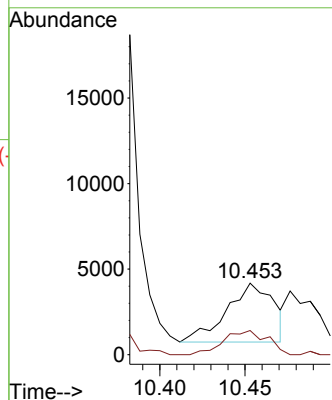
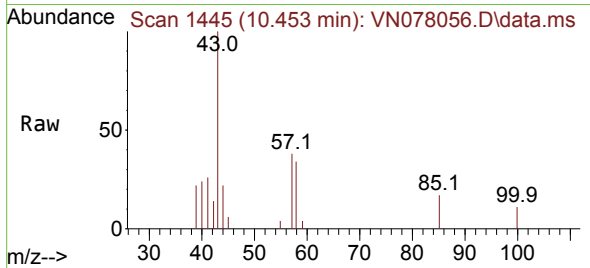




#51
4-Methyl-2-Pentanone
Concen: 1.142 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

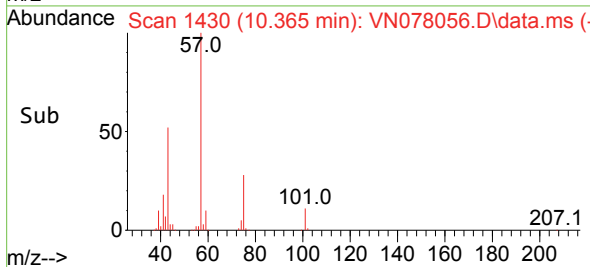
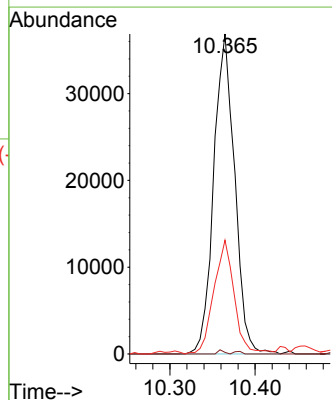
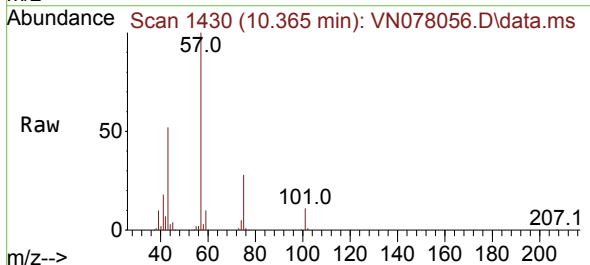
Instrument :
MSVOA_N
ClientSampleId :
278

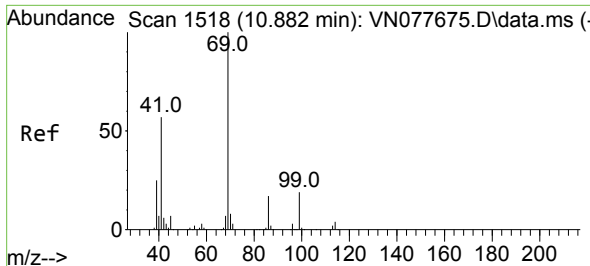
Tgt Ion: 43 Resp: 6584
Ion Ratio Lower Upper
43 100
58 38.3 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 7.858 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 75 Resp: 63022
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 35.0 31.6 47.4

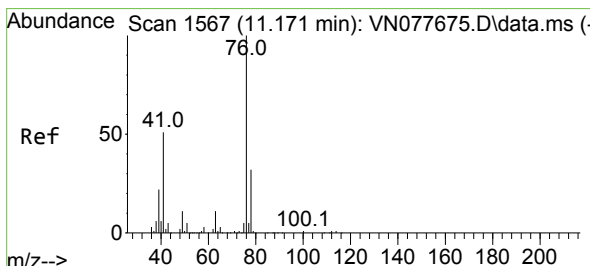
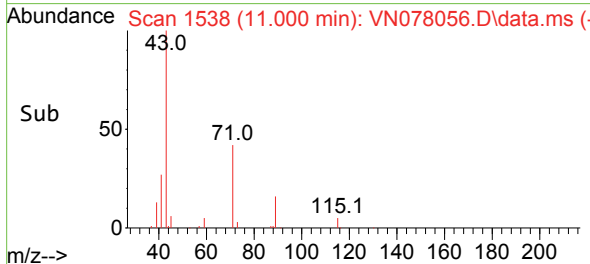
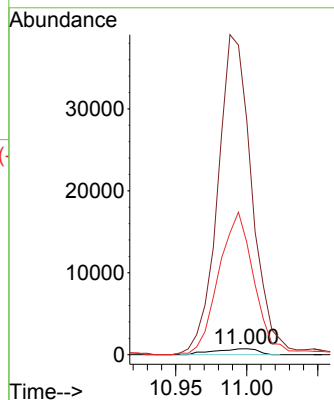
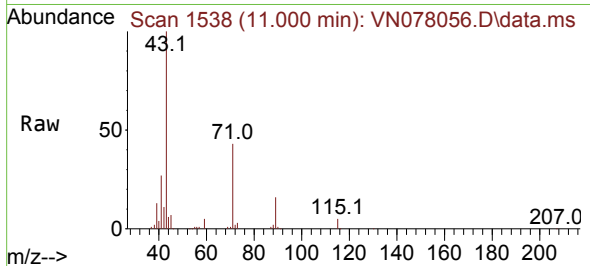




#56
Ethyl methacrylate
Concen: 0.208 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.118 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

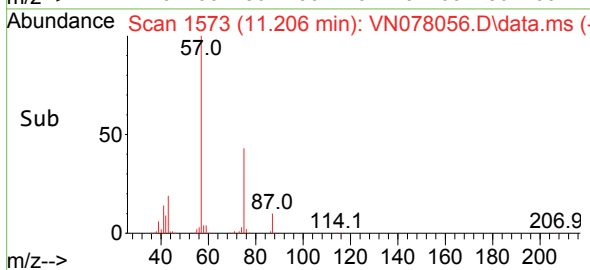
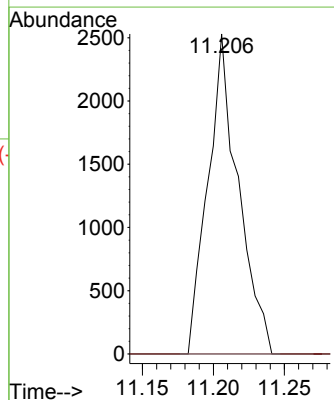
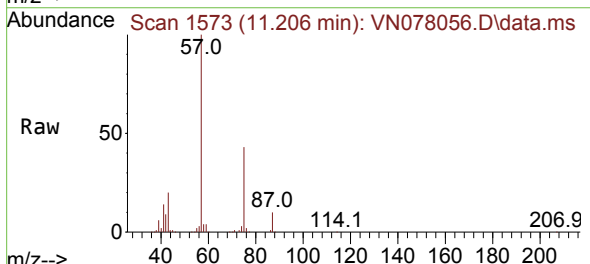
Instrument :
MSVOA_N
ClientSampleId :
278

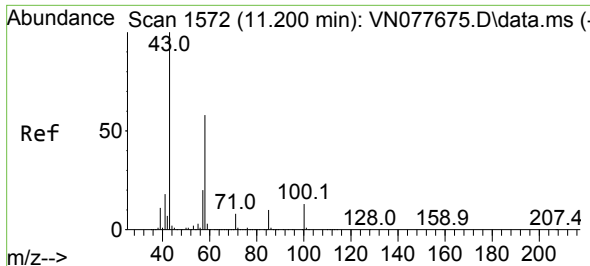
Tgt Ion: 69 Resp: 1531
Ion Ratio Lower Upper
69 100
41 4306.3 39.6 59.4#
39 2003.4 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 0.451 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 76 Resp: 3760
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

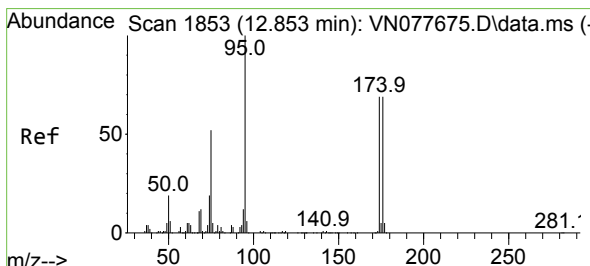
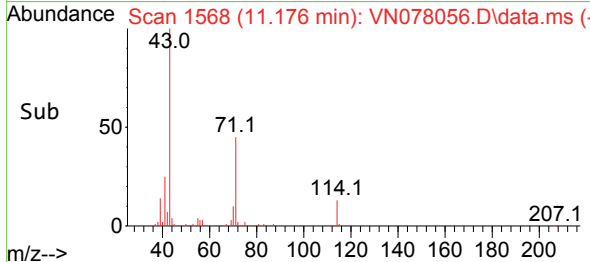
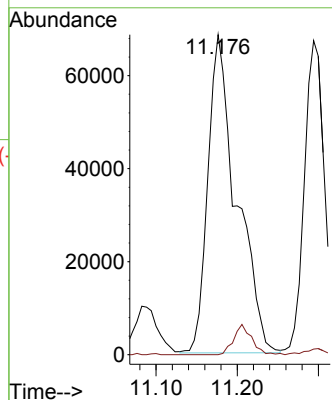
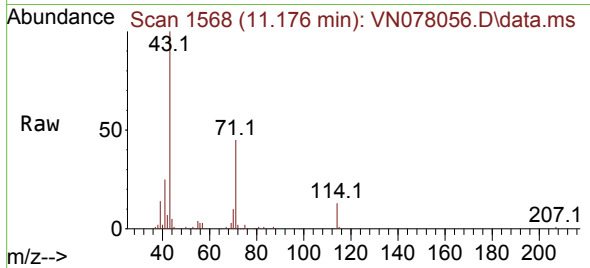




#59
2-Hexanone
Concen: 39.358 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

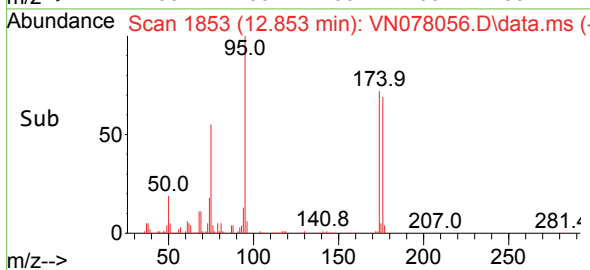
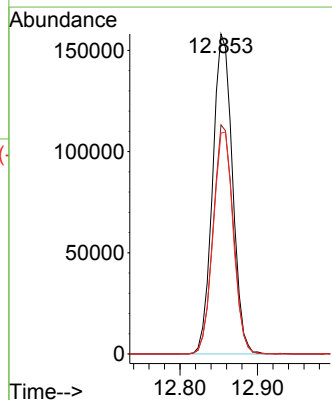
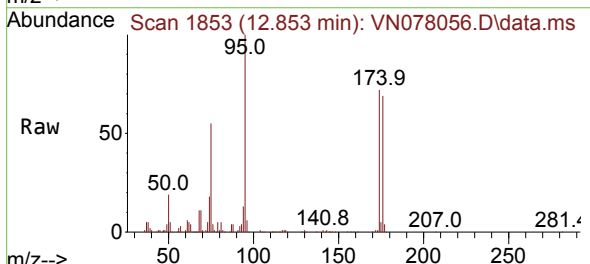
Instrument :
MSVOA_N
ClientSampleId :
278

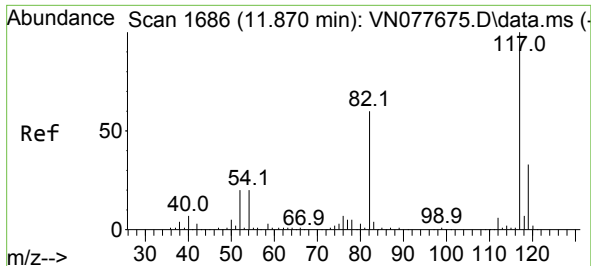
Tgt Ion: 43 Resp: 167900
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 45.317 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 95 Resp: 280705
Ion Ratio Lower Upper
95 100
174 72.4 0.0 143.8
176 70.8 0.0 135.8

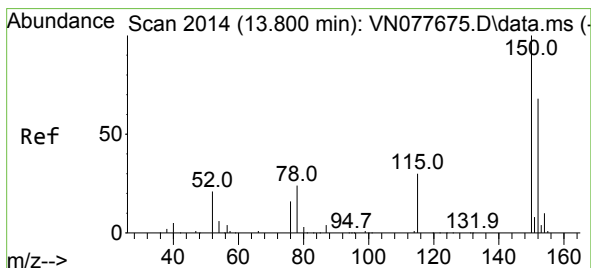
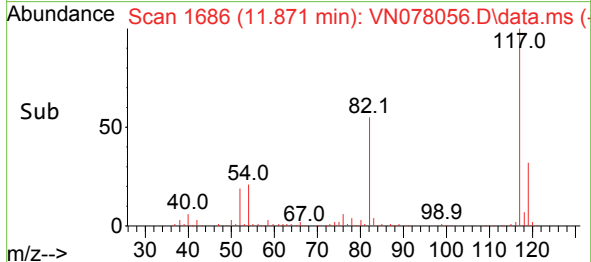
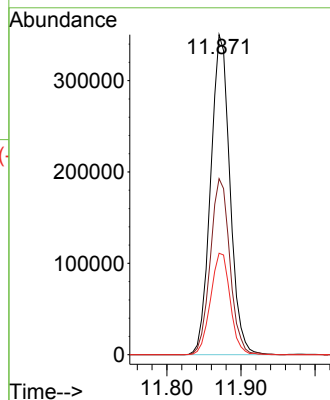
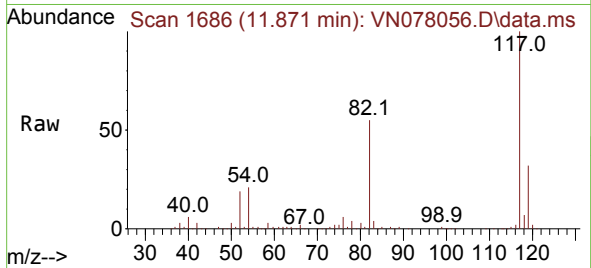




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

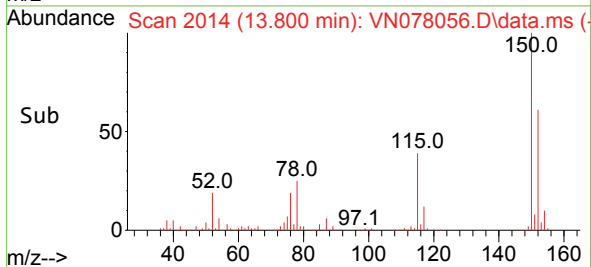
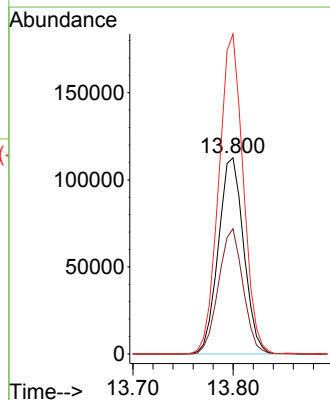
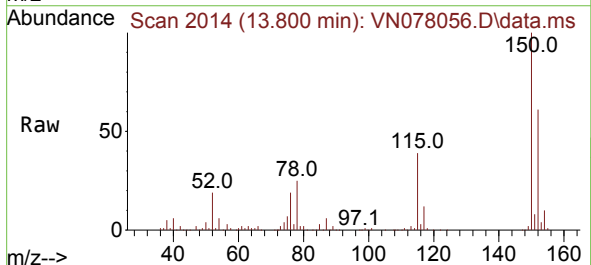
Instrument :
MSVOA_N
ClientSampleId :
278

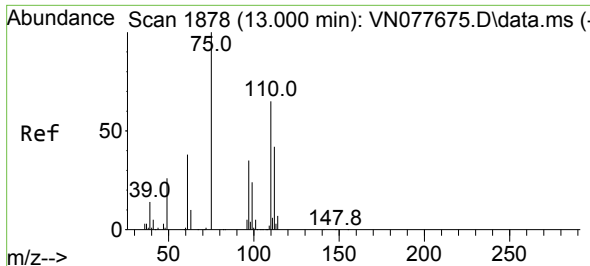
Tgt Ion:117 Resp: 633761
Ion Ratio Lower Upper
117 100
82 55.0 44.0 66.0
119 31.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion:152 Resp: 197436
Ion Ratio Lower Upper
152 100
115 61.8 32.3 96.8
150 156.9 0.0 355.8

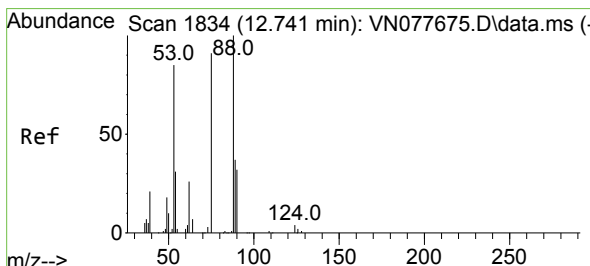
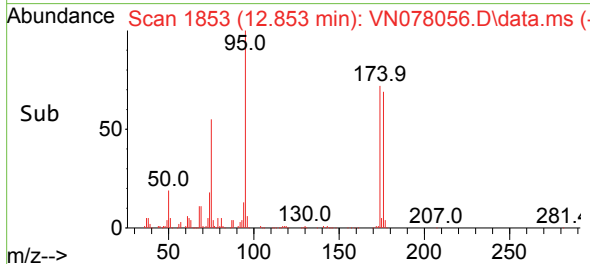
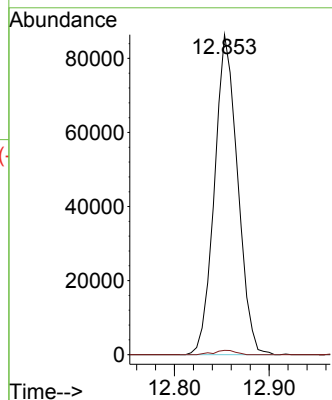
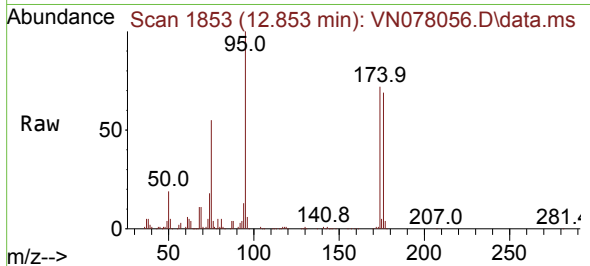




#76
1,2,3-Trichloropropane
Concen: 29.669 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Instrument :
MSVOA_N
ClientSampleId :
278

Tgt Ion: 75 Resp: 146698
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.837 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078056.D
Acq: 05 Jun 2023 19:57

Tgt Ion: 75 Resp: 146698
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

