

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082123\
 Data File : VN078972.D
 Acq On : 21 Aug 2023 14:07
 Operator : JC\MD
 Sample : 04080-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 22 00:56:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

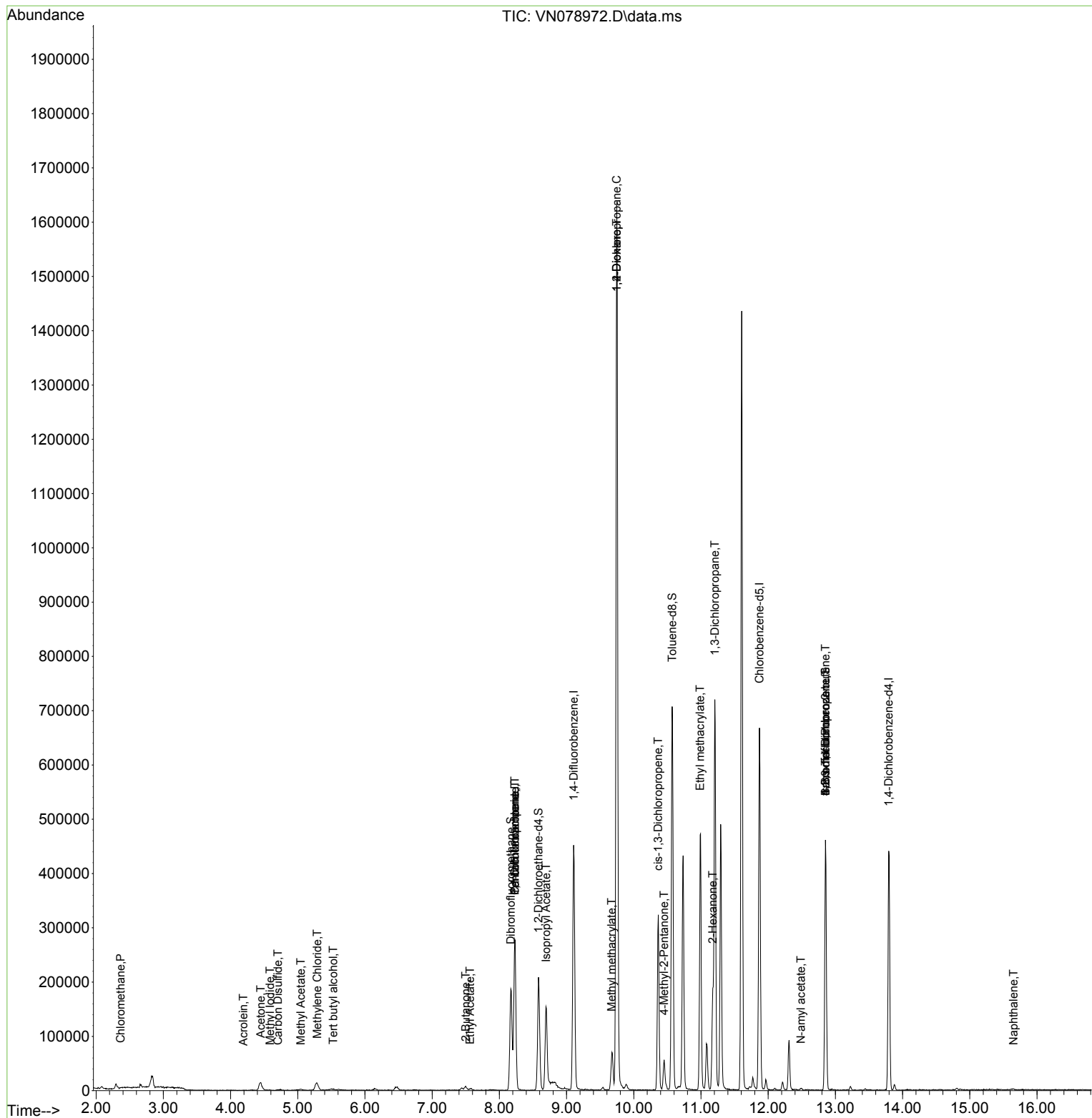
Internal Standards						
1) Pentafluorobenzene	8.229	168	198786	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	381155	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	365669	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	155942	50.413	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	100.820%	
35) Dibromofluoromethane	8.171	113	131543	51.269	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	102.540%	
50) Toluene-d8	10.570	98	479351	50.316	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	100.640%	
62) 4-Bromofluorobenzene	12.853	95	148767	47.775	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	95.540%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	802	0.208	ug/l #	85
10) Methyl Iodide	4.588	142	684	0.279	ug/l #	38
11) Tert butyl alcohol	5.530	59	288	0.555	ug/l #	72
13) Acrolein	4.189	56	65	7.038	ug/l #	16
16) Acetone	4.447	43	29004	22.724	ug/l	90
17) Carbon Disulfide	4.706	76	2559	0.428	ug/l #	75
18) Methyl Acetate	5.047	43	2793	0.518	ug/l #	59
20) Methylene Chloride	5.288	84	9682	3.560	ug/l #	78
25) 2-Butanone	7.500	43	11968	5.849	ug/l #	70
31) Cyclohexane	8.224	56	6379	Below Cal	#	52
36) 1,1-Dichloropropene	8.229	75	17225	4.463	ug/l #	45
37) Ethyl Acetate	7.565	43	937	0.217	ug/l #	77
38) Carbon Tetrachloride	8.229	117	21097	5.455	ug/l #	16
43) Isopropyl Acetate	8.694	43	180423	23.639	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	2056	0.677	ug/l #	45
48) Methyl methacrylate	9.671	41	4939	1.428	ug/l #	30
49) 1,4-Dioxane	9.747	88	138	2.343	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	43888	9.695	ug/l #	79
54) cis-1,3-Dichloropropene	10.365	75	52600	10.948	ug/l #	72
56) Ethyl methacrylate	10.988	69	2024	0.465	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7075	1.408	ug/l #	42
59) 2-Hexanone	11.176	43	150230	45.819	ug/l #	19
71) Bromoform	12.853	173	1766	0.826	ug/l #	28
74) N-amyl acetate	12.488	43	1959	0.393	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	81961	28.722	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	81961	73.373	ug/l #	15
95) Naphthalene	15.652	128	1344	2.808	ug/l #	76

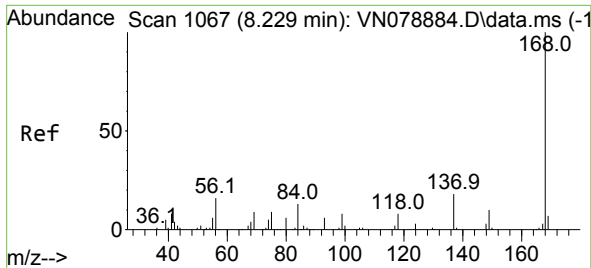
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :

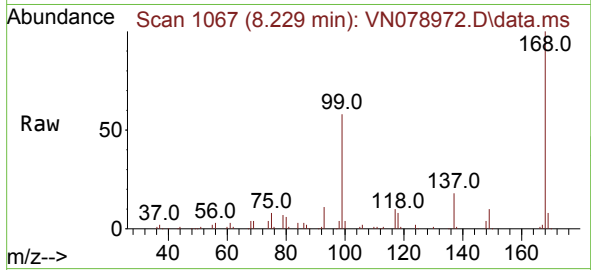
Quant Time: Aug 22 00:56:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 16 02:42:02 2023
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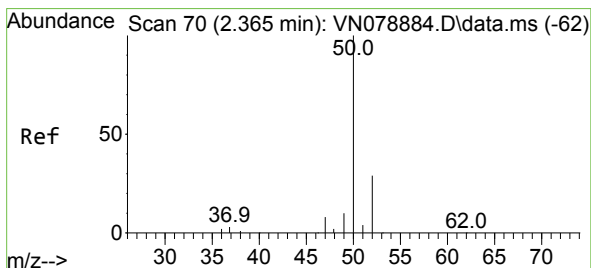
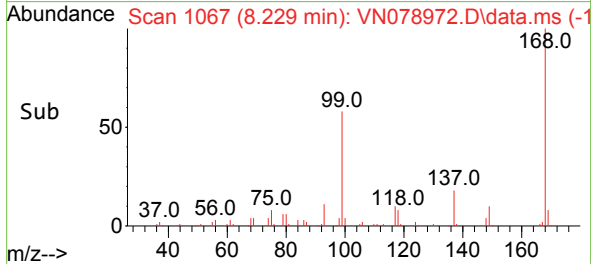
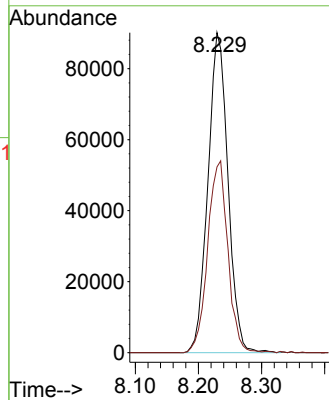


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

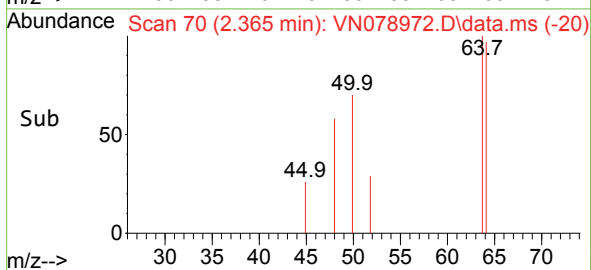
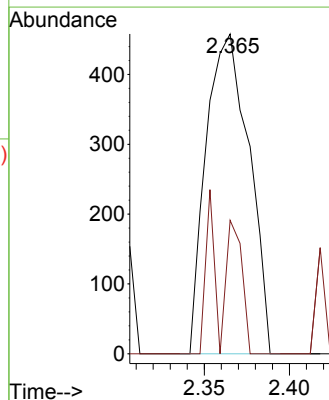
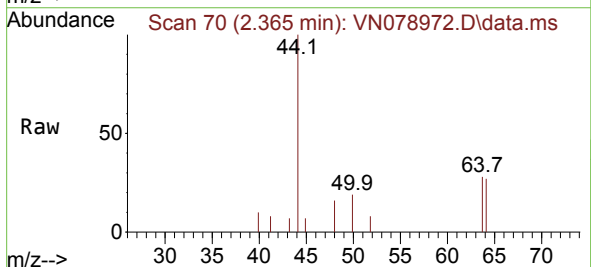


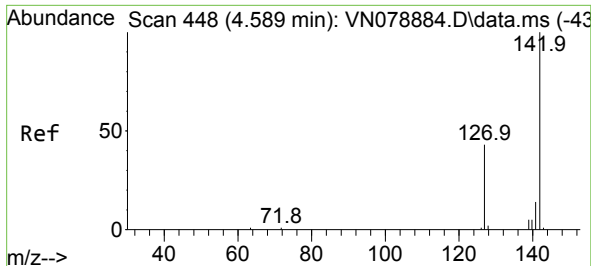
Tgt Ion:168 Resp: 198786
Ion Ratio Lower Upper
168 100
99 58.1 53.0 79.6



#3
Chloromethane
Concen: 0.208 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

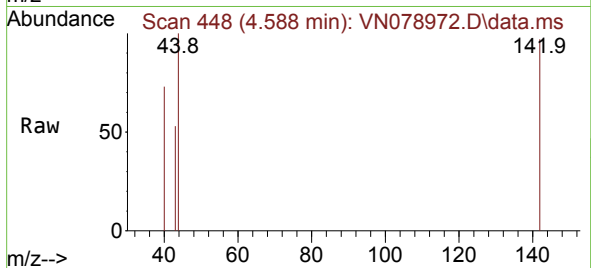
Tgt Ion: 50 Resp: 802
Ion Ratio Lower Upper
50 100
52 41.7 26.5 39.7#



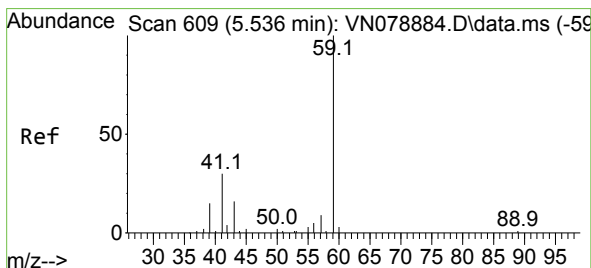
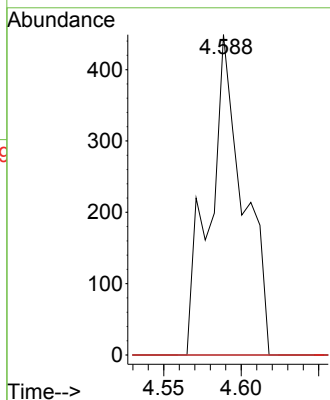
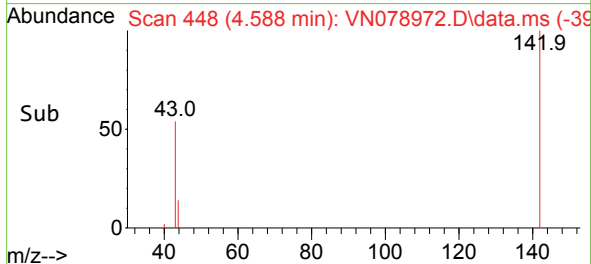


#10
Methyl Iodide
Concen: 0.279 ug/l
RT: 4.588 min Scan# 448
Delta R.T. -0.011 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

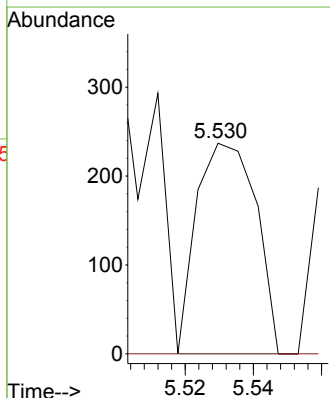
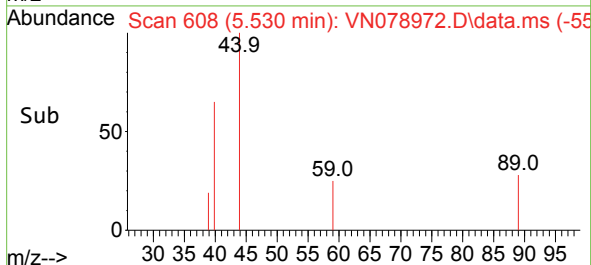
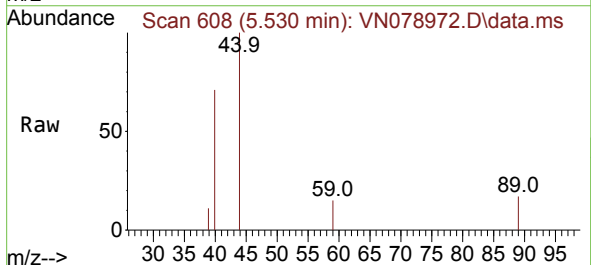


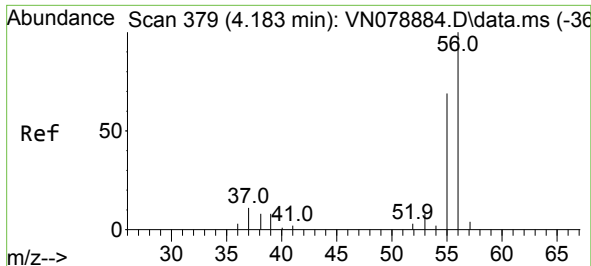
Tgt Ion:142 Resp: 684
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.555 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

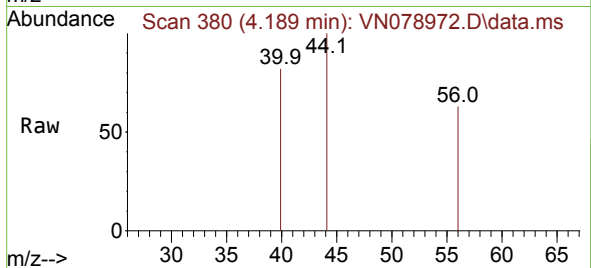
Tgt Ion: 59 Resp: 288
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



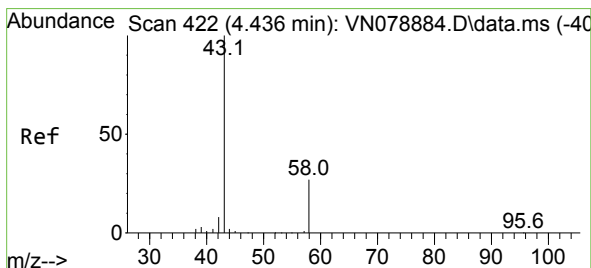
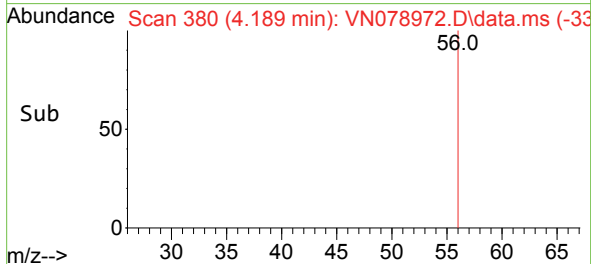
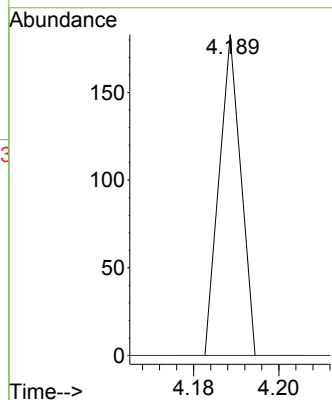


#13
Acrolein
Concen: 7.038 ug/l
RT: 4.189 min Scan# 379
Delta R.T. -0.006 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

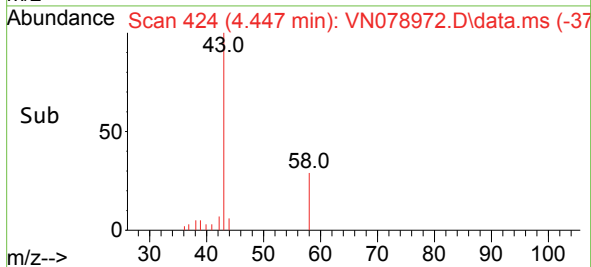
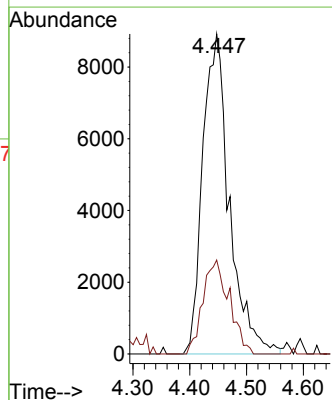
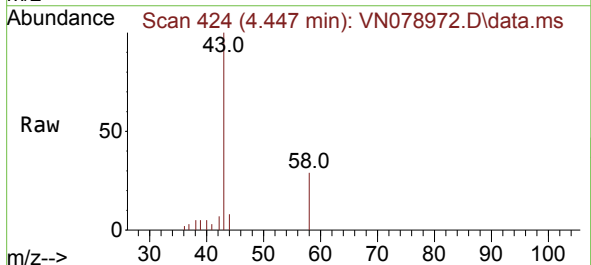


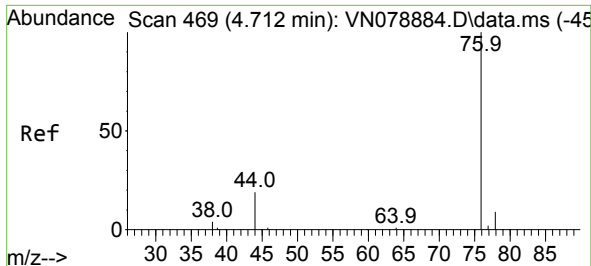
Tgt Ion: 56 Resp: 65
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 22.724 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

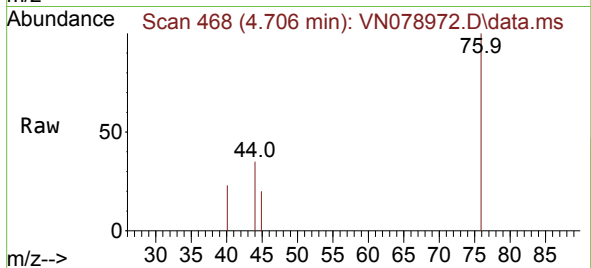
Tgt Ion: 43 Resp: 29004
Ion Ratio Lower Upper
43 100
58 29.4 28.0 42.0



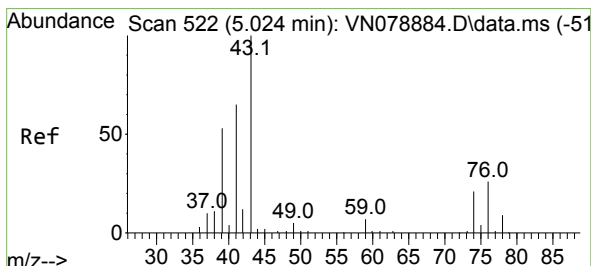
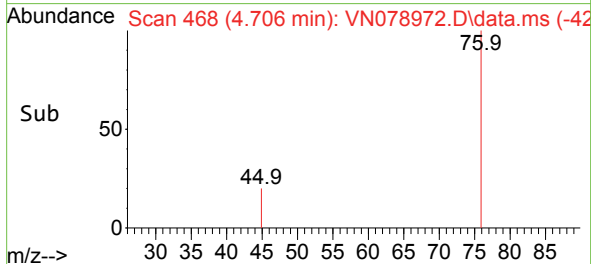
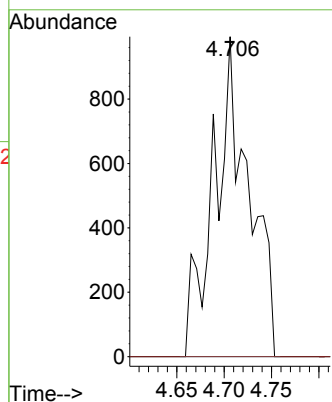


#17
Carbon Disulfide
Concen: 0.428 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.018 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

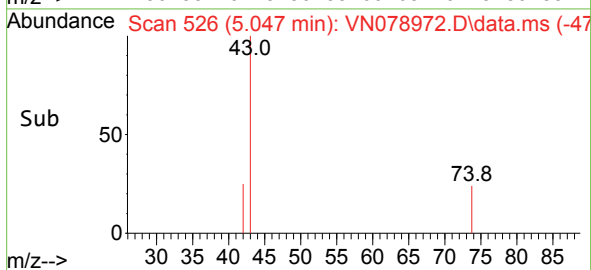
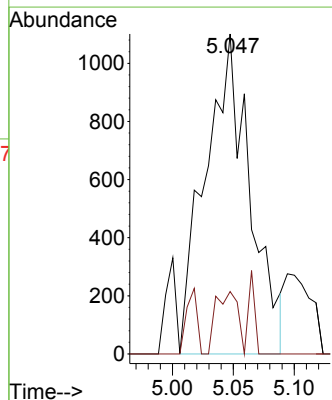
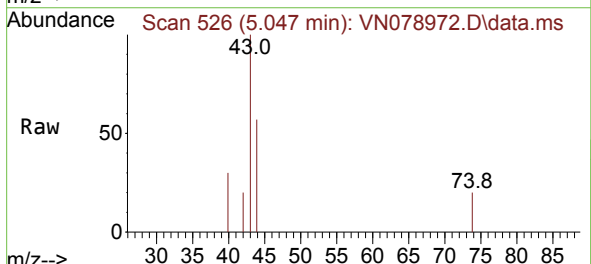


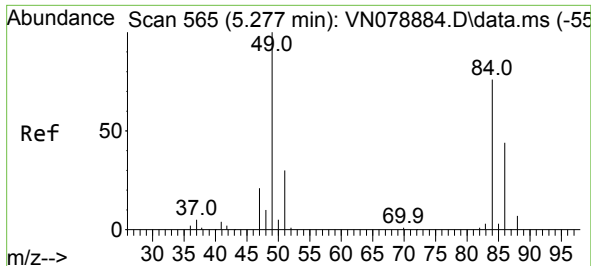
Tgt Ion: 76 Resp: 2559
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.518 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.005 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

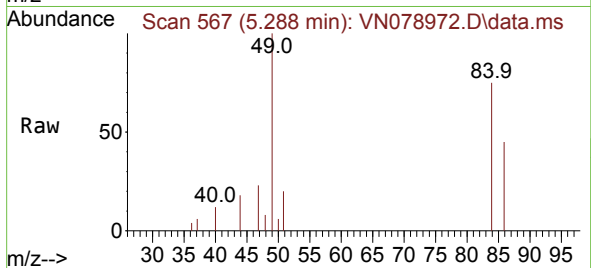
Tgt Ion: 43 Resp: 2793
Ion Ratio Lower Upper
43 100
74 9.7 26.2 39.4#



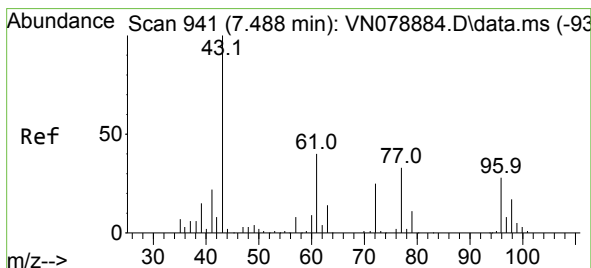
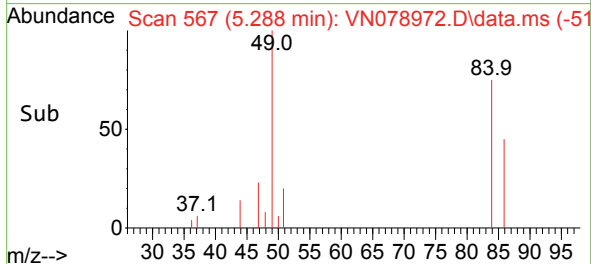
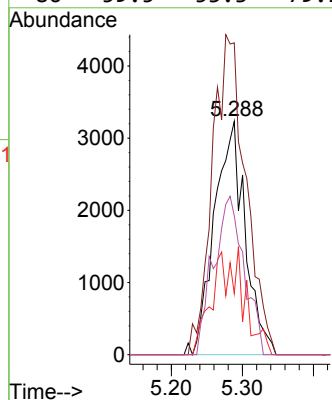


#20
Methylene Chloride
Concen: 3.560 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

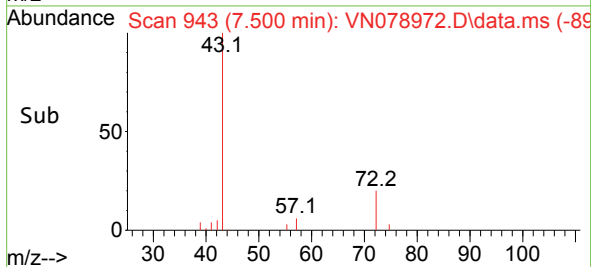
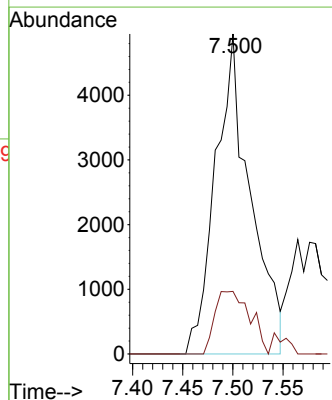
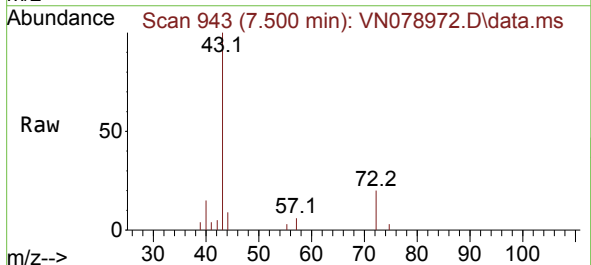


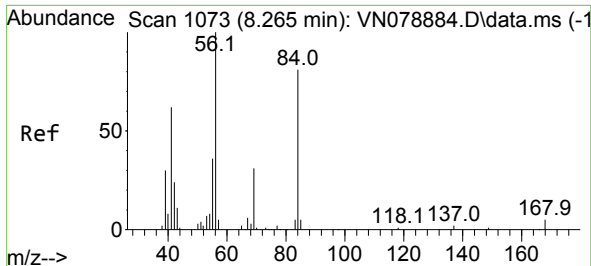
Tgt Ion:	84	Resp:	9682
Ion	Ratio	Lower	Upper
84	100		
49	133.7	79.7	119.5#
51	26.2	25.2	37.8
86	59.5	53.3	79.9



#25
2-Butanone
Concen: 5.849 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

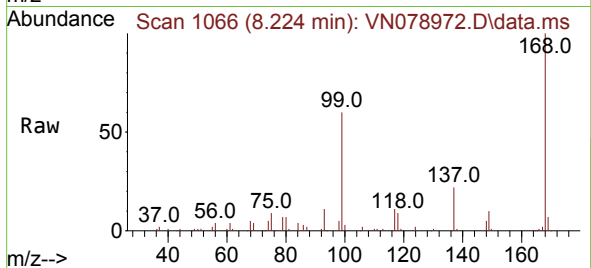
Tgt Ion:	43	Resp:	11968
Ion	Ratio	Lower	Upper
43	100		
72	19.6	30.2	45.2#



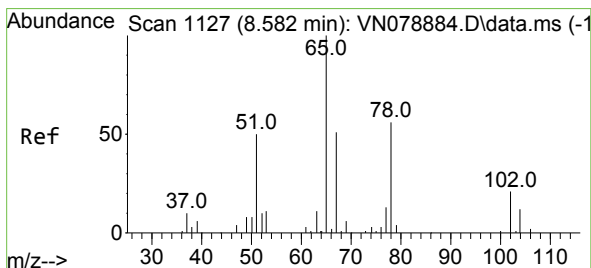
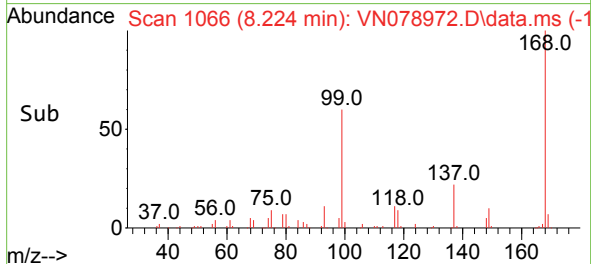
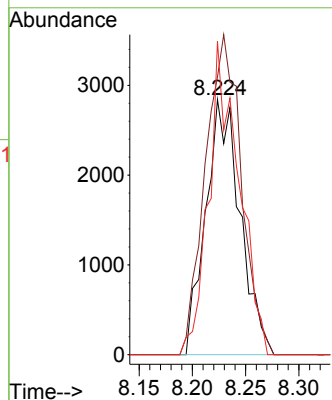


#31
Cyclohexane
Concen: Below Cal
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
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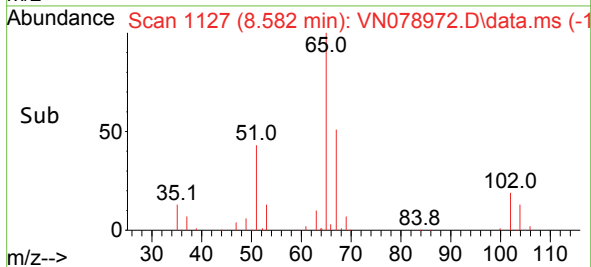
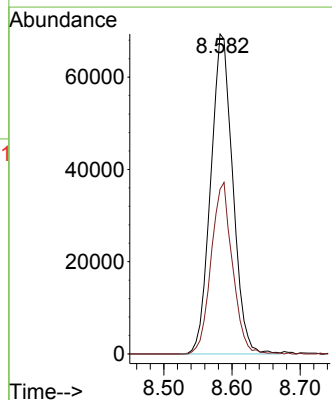
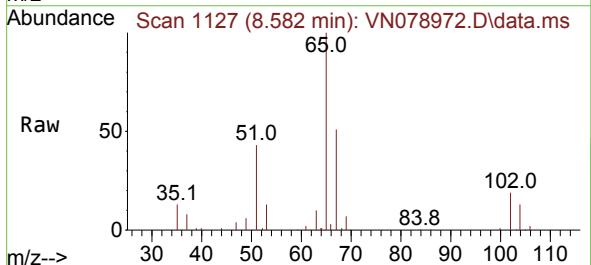


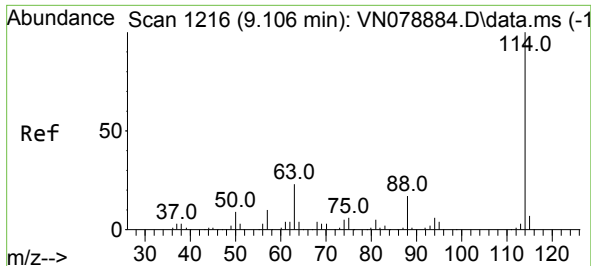
Tgt Ion: 56 Resp: 6379
Ion Ratio Lower Upper
56 100
69 108.9 26.8 40.2#
84 122.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.413 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Tgt Ion: 65 Resp: 155942
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :

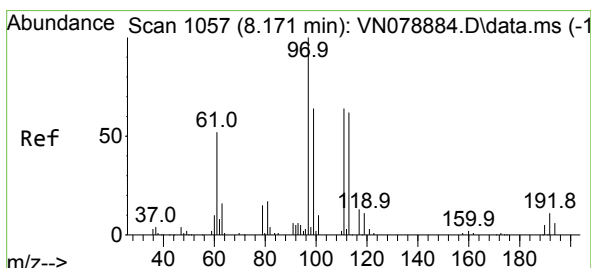
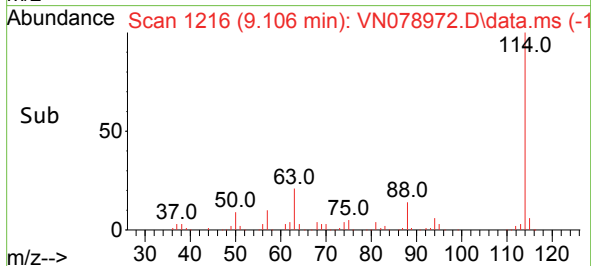
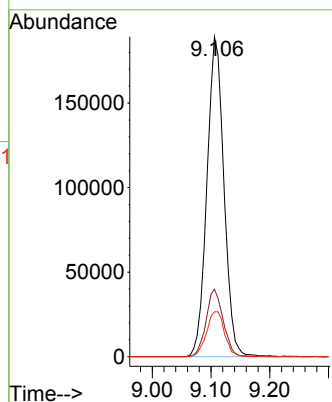
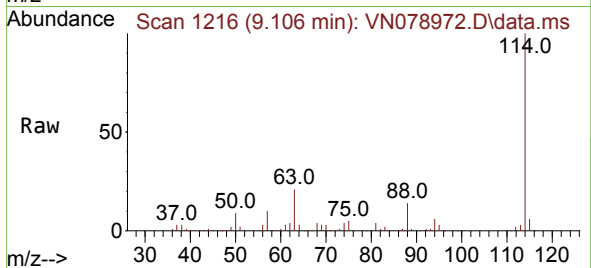
Tgt Ion:114 Resp: 381155

Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

88 14.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.269 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

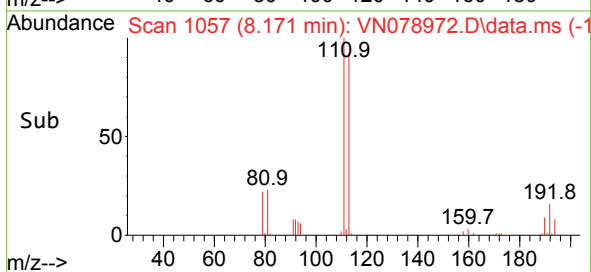
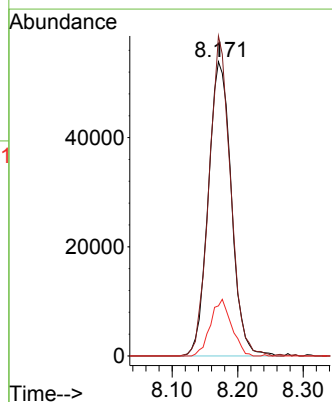
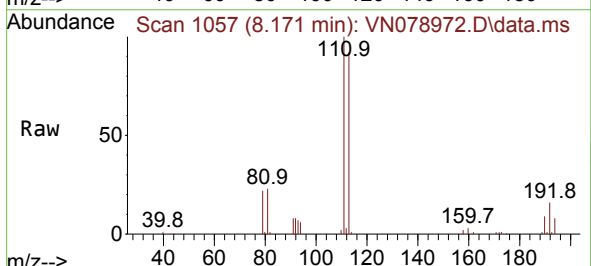
Tgt Ion:113 Resp: 131543

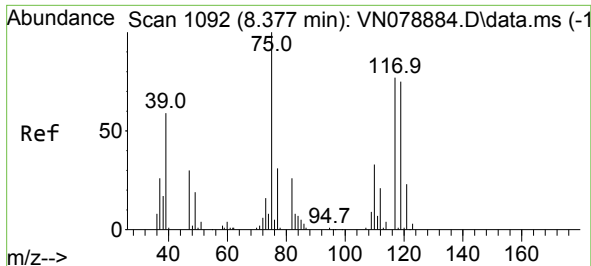
Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

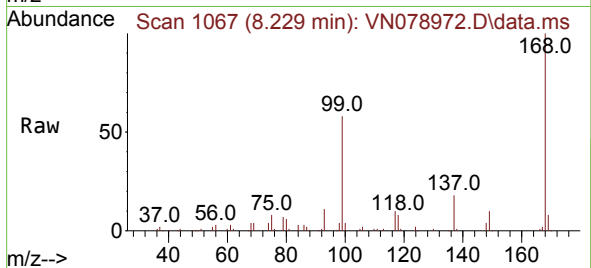
192 17.7 12.7 19.1



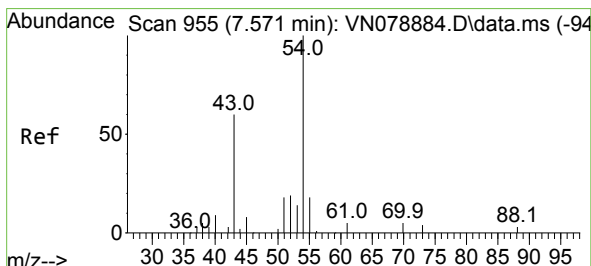
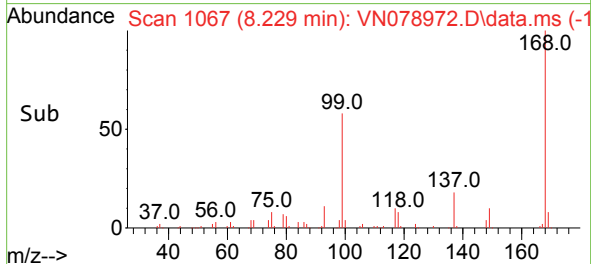
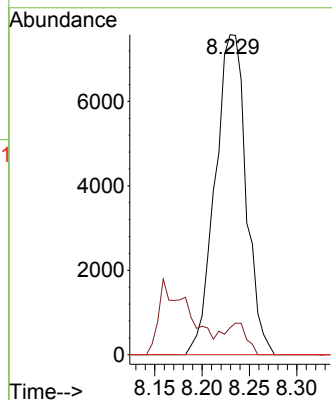


#36
1,1-Dichloropropene
Concen: 4.463 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

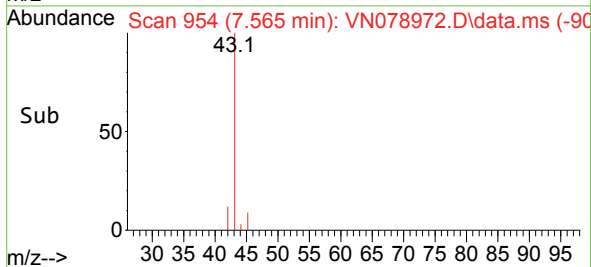
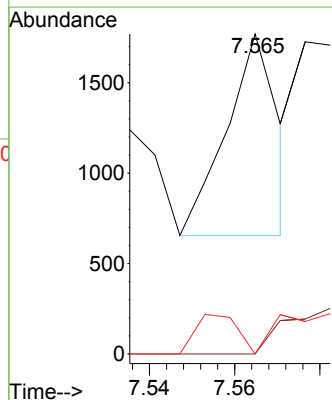
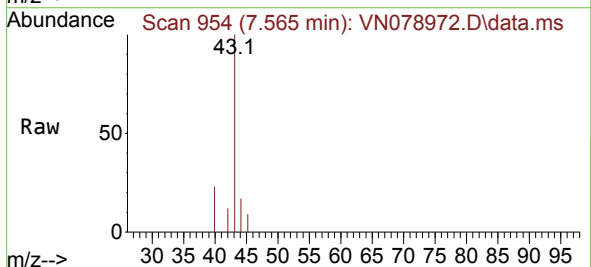


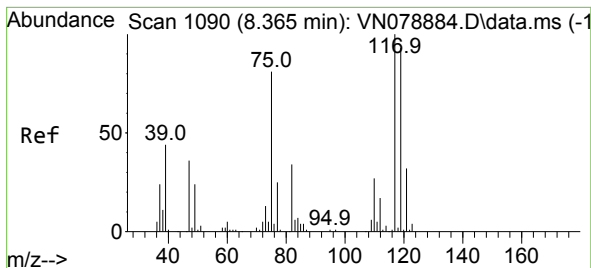
Tgt Ion: 75 Resp: 17225
Ion Ratio Lower Upper
75 100
110 5.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.217 ug/l
RT: 7.565 min Scan# 954
Delta R.T. -0.006 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Tgt Ion: 43 Resp: 937
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 15.9 11.3 16.9





#38

Carbon Tetrachloride

Concen: 5.455 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.142 min

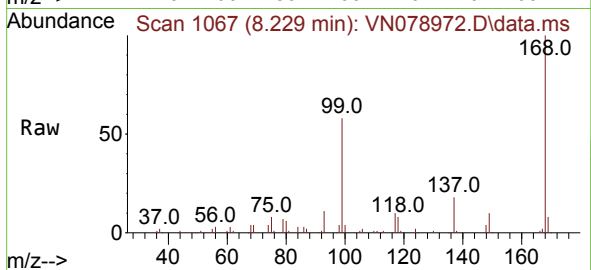
Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :



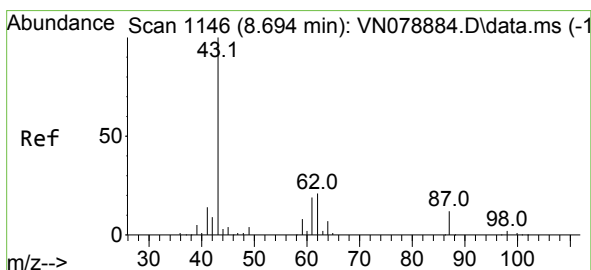
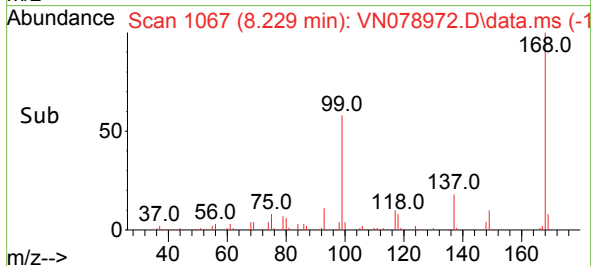
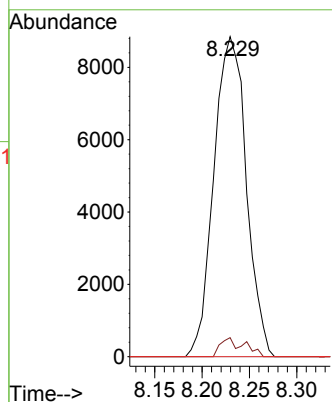
Tgt Ion:117 Resp: 21097

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 23.639 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

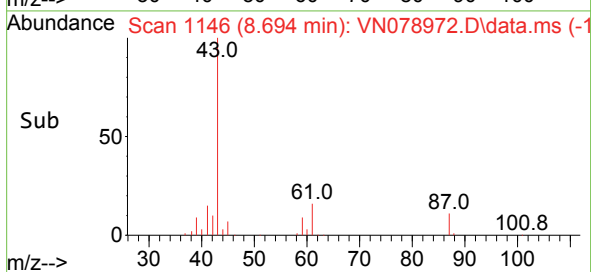
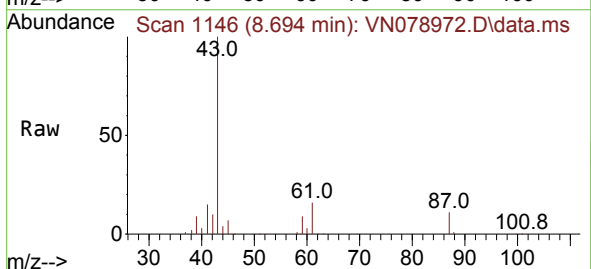
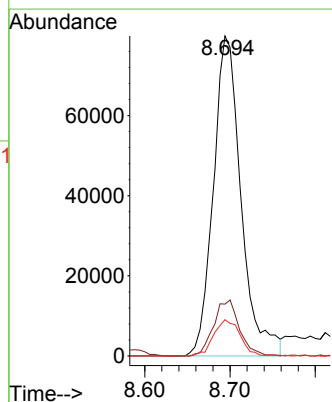
Tgt Ion: 43 Resp: 180423

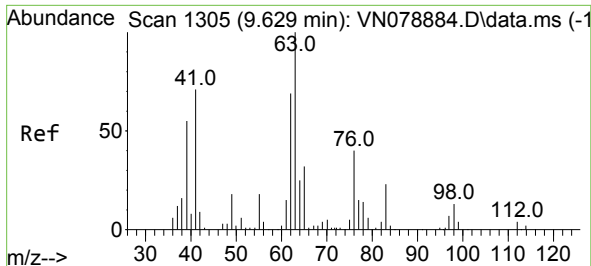
Ion Ratio Lower Upper

43 100

61 16.3 24.7 37.1#

87 10.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.677 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

Instrument :

MSVOA_N

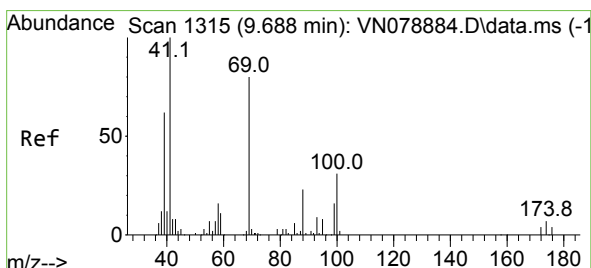
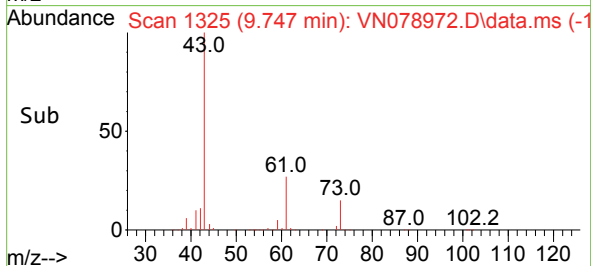
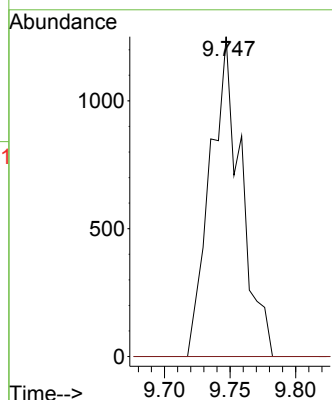
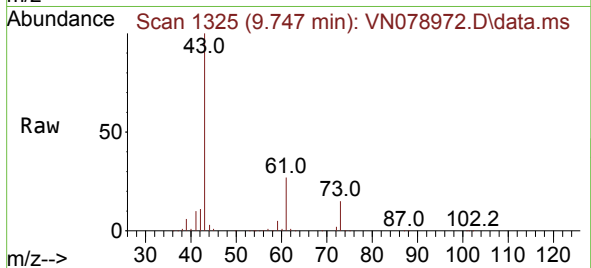
ClientSampleId :

Tgt Ion: 63 Resp: 2056

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.428 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.017 min

Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

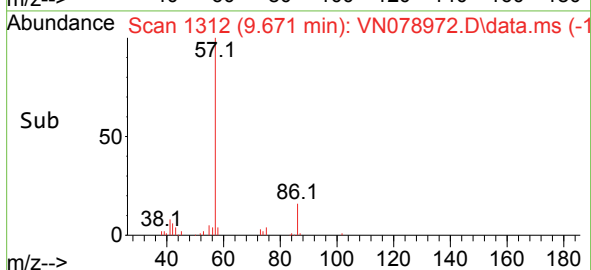
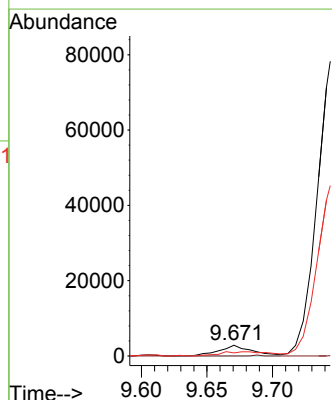
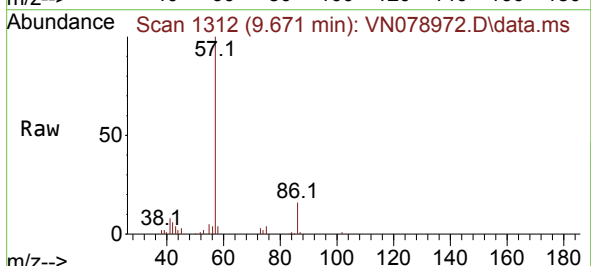
Tgt Ion: 41 Resp: 4939

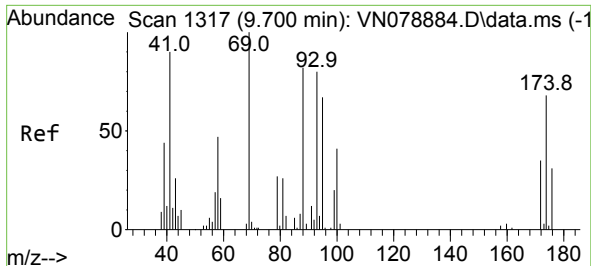
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 58.3 54.6 81.8





#49

1,4-Dioxane

Concen: 2.343 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.047 min

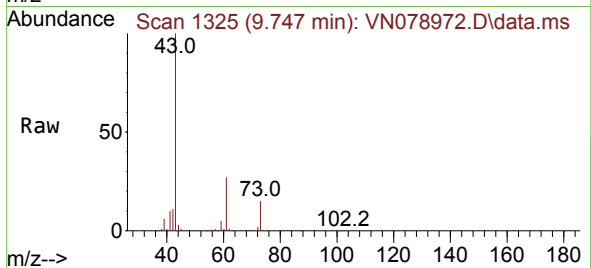
Lab File: VN078972.D

Acq: 21 Aug 2023 14:07

Instrument :

MSVOA_N

ClientSampleId :



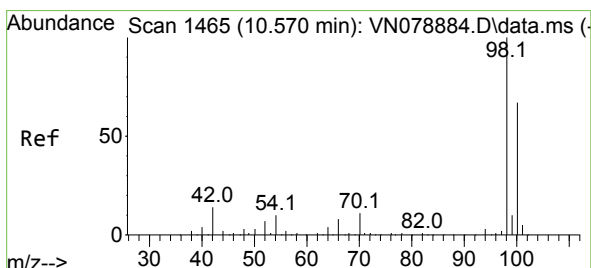
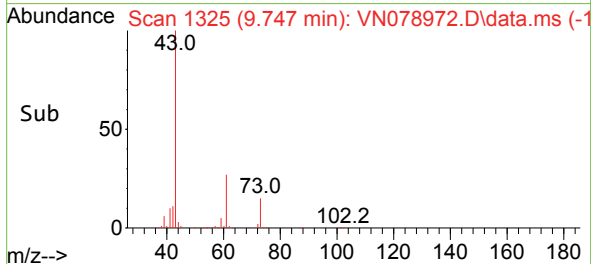
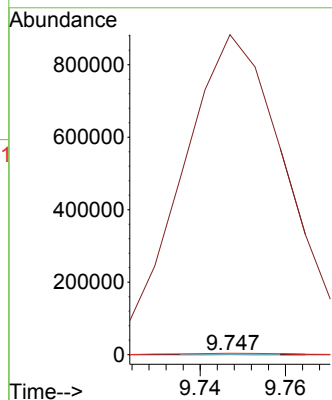
Tgt Ion: 88 Resp: 138

Ion Ratio Lower Upper

88 100

43 1139490.6 17.0 25.6#

58 5459.4 47.0 70.4#



#50

Toluene-d8

Concen: 50.316 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN078972.D

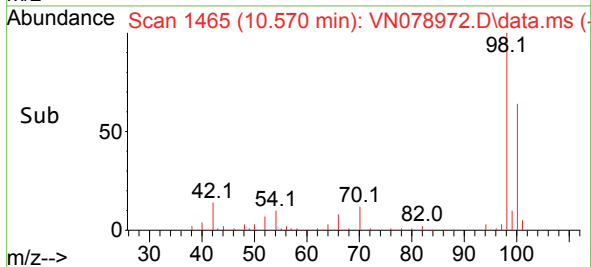
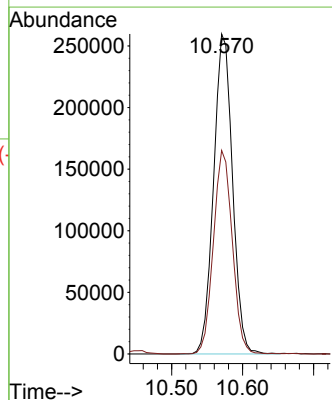
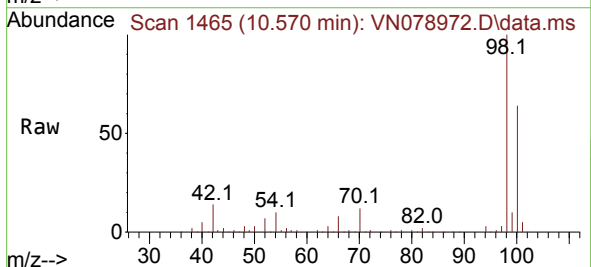
Acq: 21 Aug 2023 14:07

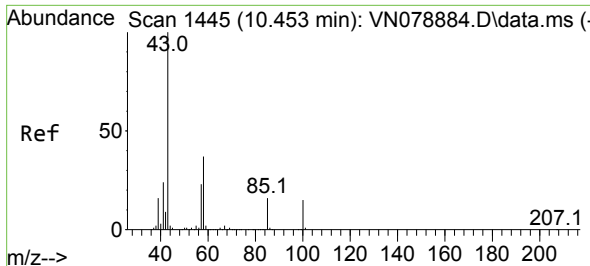
Tgt Ion: 98 Resp: 479351

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0

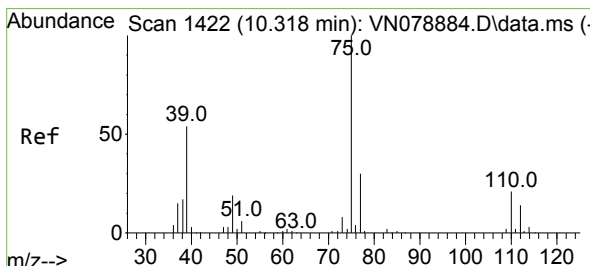
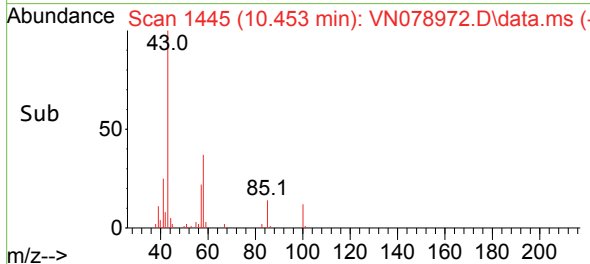
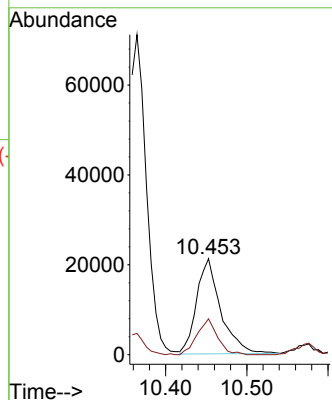
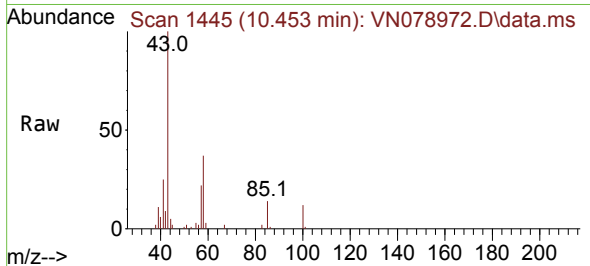




#51
4-Methyl-2-Pentanone
Concen: 9.695 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

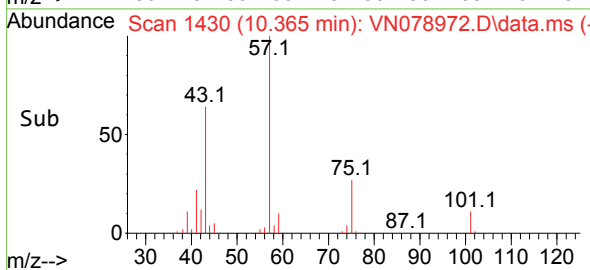
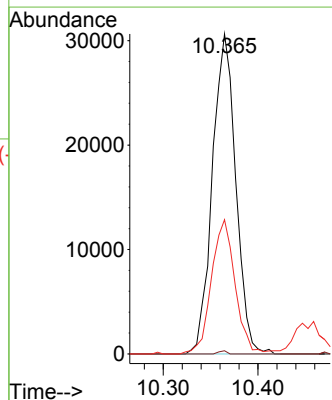
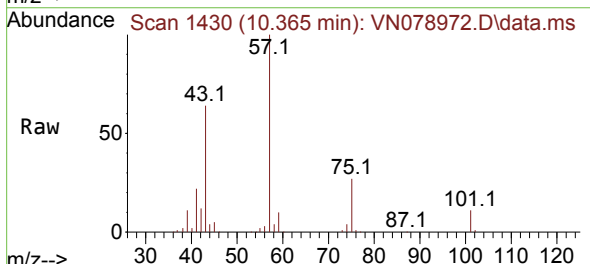
Instrument :
MSVOA_N
ClientSampleId :

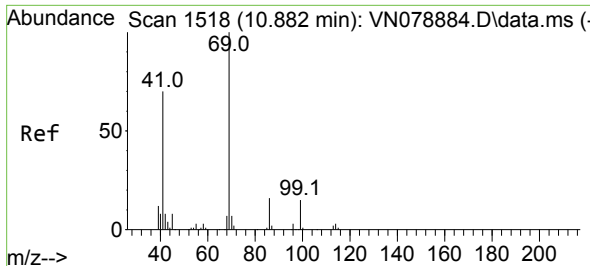
Tgt Ion: 43 Resp: 43888
Ion Ratio Lower Upper
43 100
58 31.7 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 10.948 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

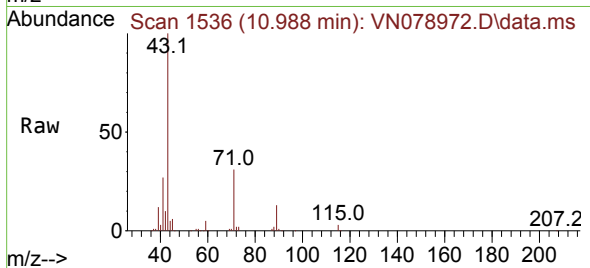
Tgt Ion: 75 Resp: 52600
Ion Ratio Lower Upper
75 100
77 1.0 26.1 39.1#
39 42.0 31.6 47.4



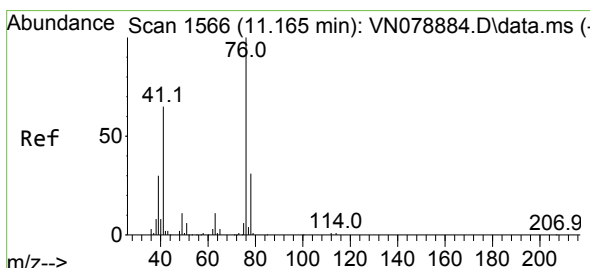
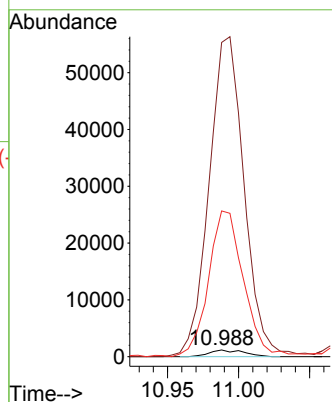
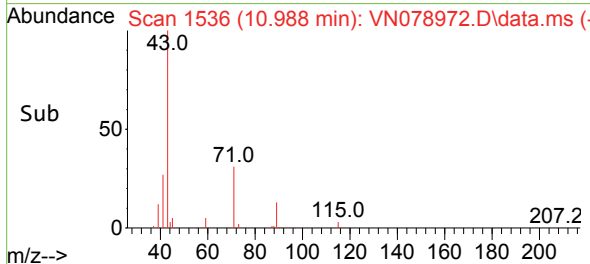


#56
Ethyl methacrylate
Concen: 0.465 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Instrument :
MSVOA_N
ClientSampleId :

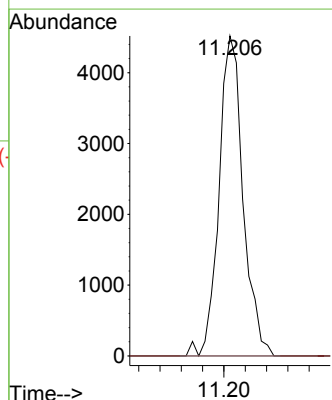
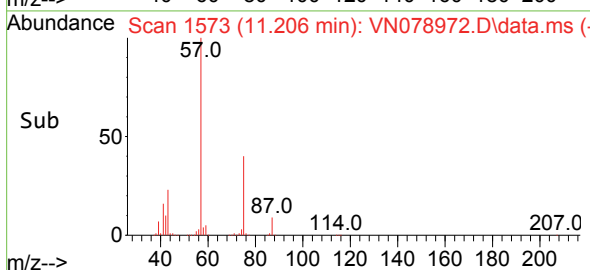
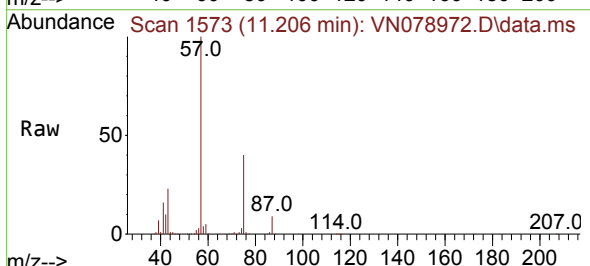


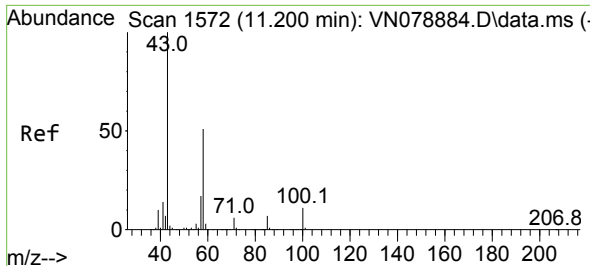
Tgt Ion: 69 Resp: 2024
Ion Ratio Lower Upper
69 100
41 4790.2 39.6 59.4#
39 2188.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.408 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

Tgt Ion: 76 Resp: 7075
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

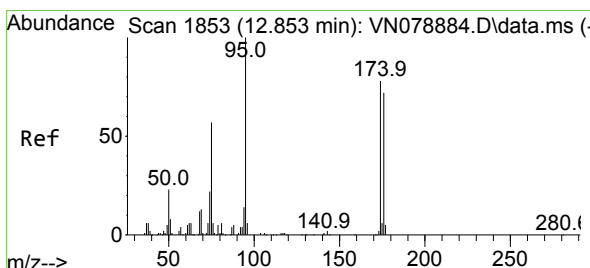
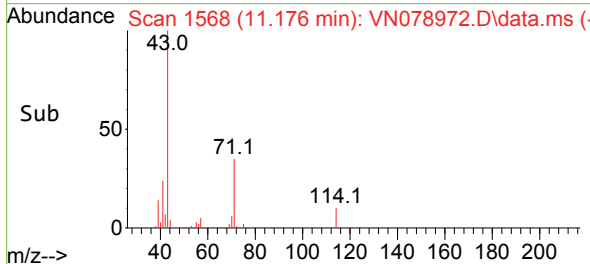
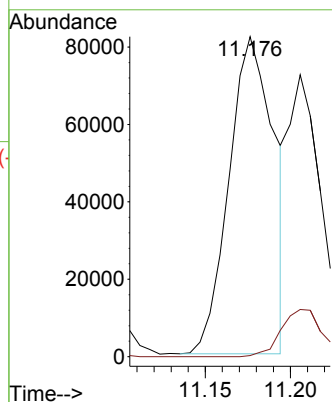
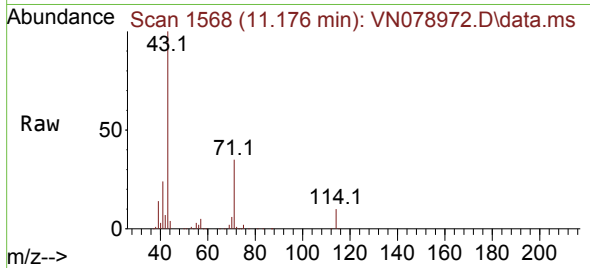




#59
2-Hexanone
Concen: 45.819 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.024 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

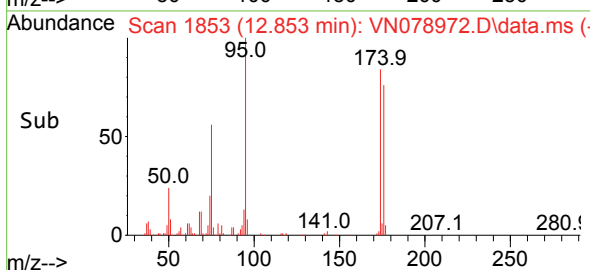
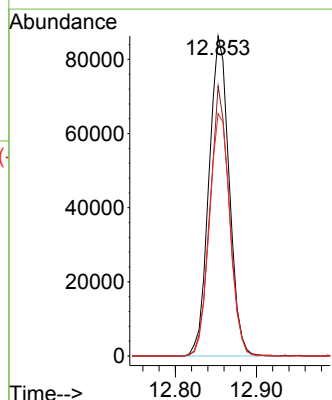
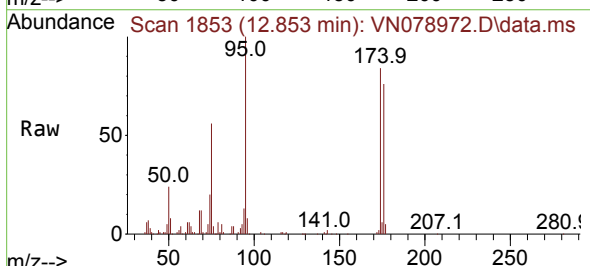
Instrument :
MSVOA_N
ClientSampleId :

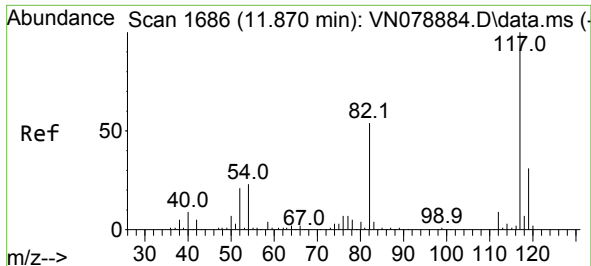
Tgt Ion: 43 Resp: 150230
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.775 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

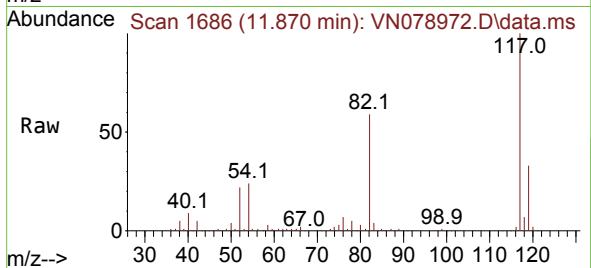
Tgt Ion: 95 Resp: 148767
Ion Ratio Lower Upper
95 100
174 80.8 0.0 143.8
176 77.5 0.0 135.8



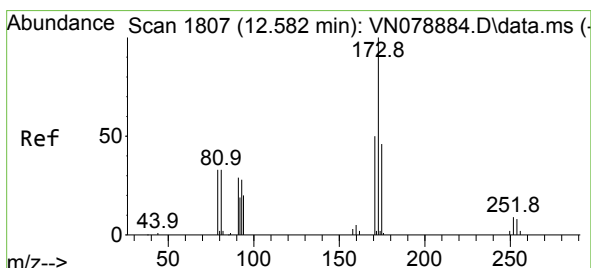
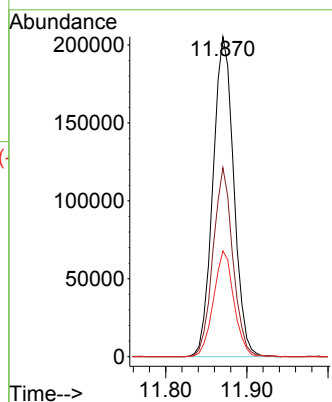
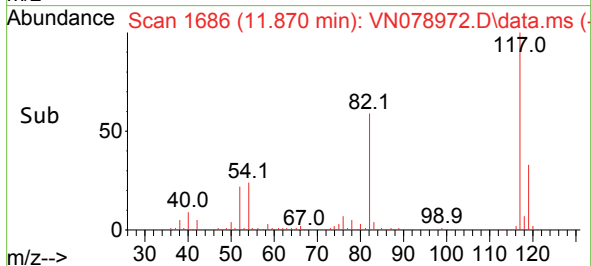


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07

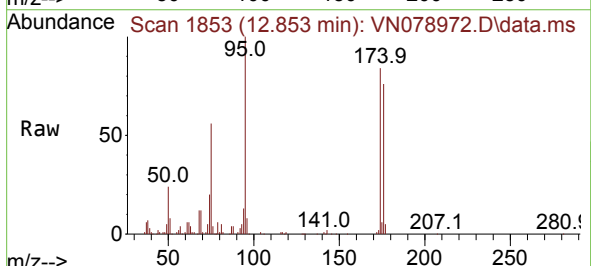
Instrument :
MSVOA_N
ClientSampleId :



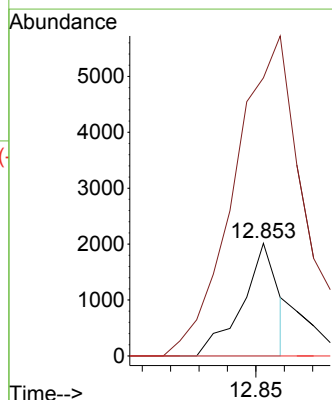
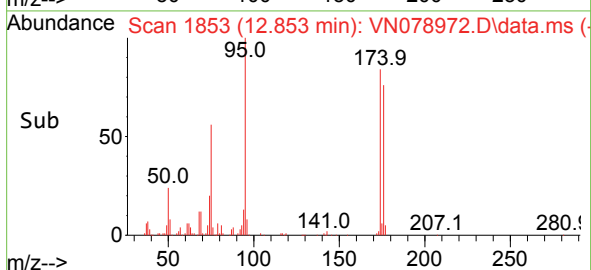
Tgt Ion:117 Resp: 365669
Ion Ratio Lower Upper
117 100
82 59.0 44.0 66.0
119 33.1 25.6 38.4

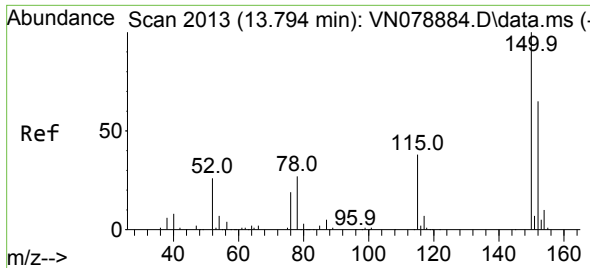


#71
Bromoform
Concen: 0.826 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078972.D
Acq: 21 Aug 2023 14:07



Tgt Ion:173 Resp: 1766
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

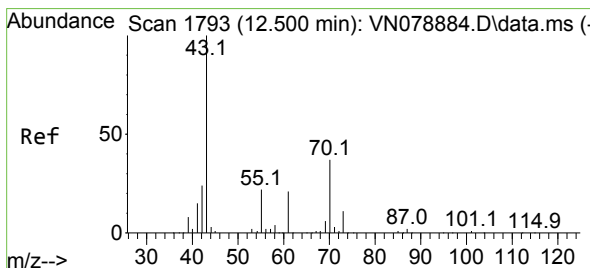
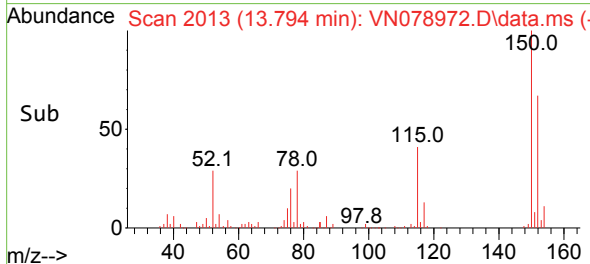
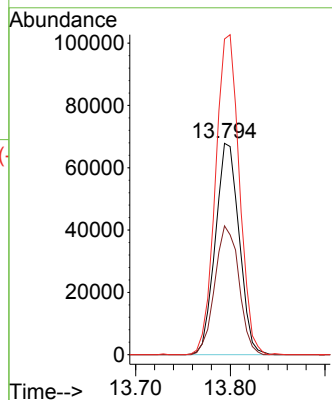
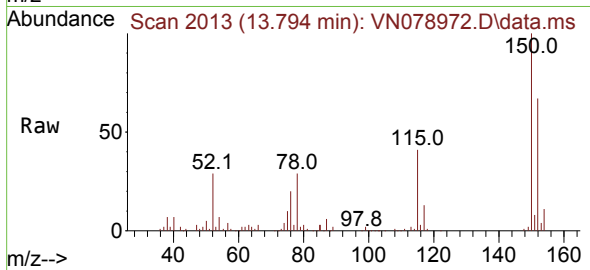




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN078972.D
 Acq: 21 Aug 2023 14:07

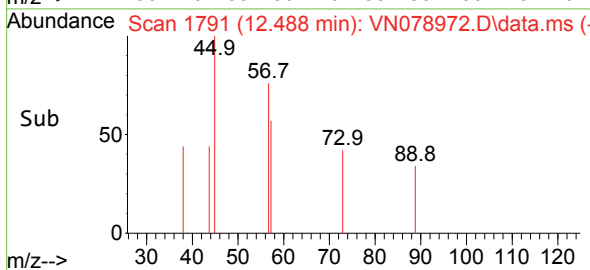
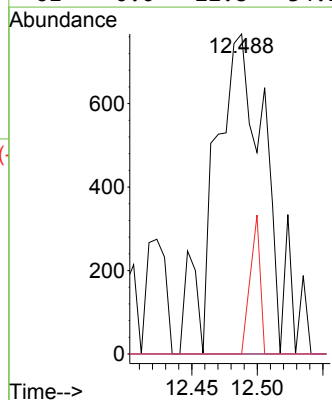
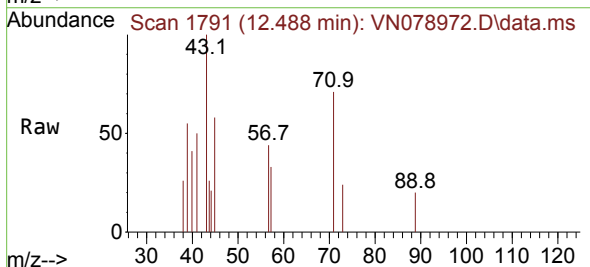
Instrument :
 MSVOA_N
 ClientSampleId :

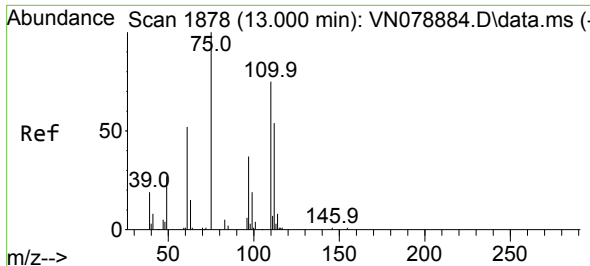
Tgt Ion:152 Resp: 118429
 Ion Ratio Lower Upper
 152 100
 115 61.8 32.3 96.8
 150 151.9 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.393 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.012 min
 Lab File: VN078972.D
 Acq: 21 Aug 2023 14:07

Tgt Ion: 43 Resp: 1959
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 9.0 21.4 32.0#
 61 0.0 22.8 34.2#

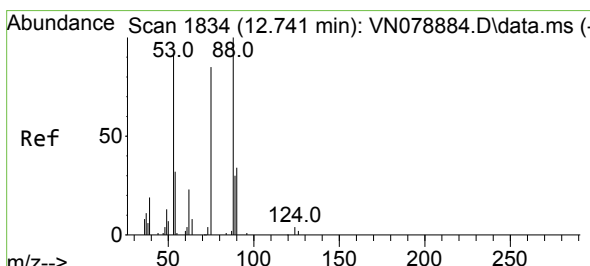
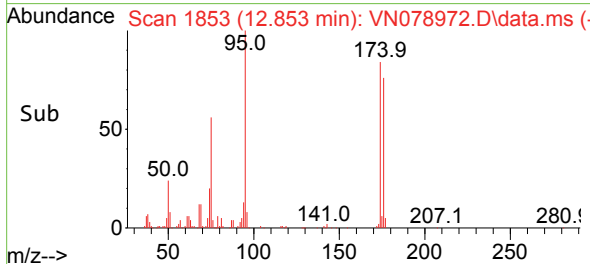
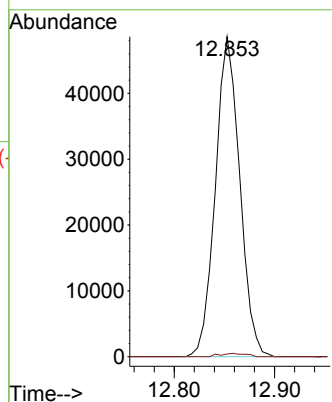
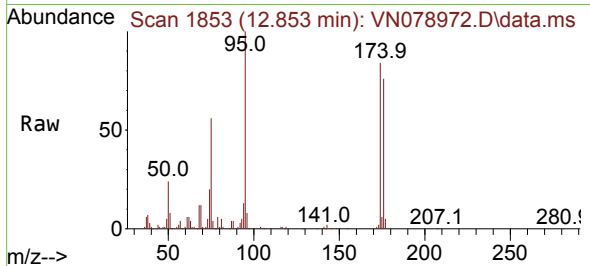




#76
 1,2,3-Trichloropropane
 Concen: 28.722 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078972.D
 Acq: 21 Aug 2023 14:07

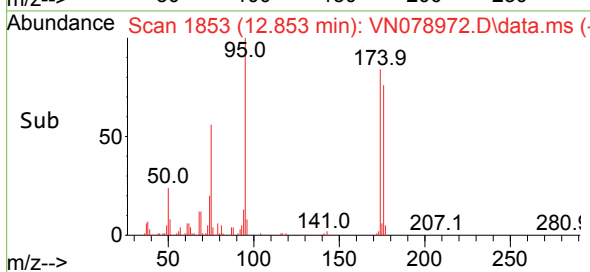
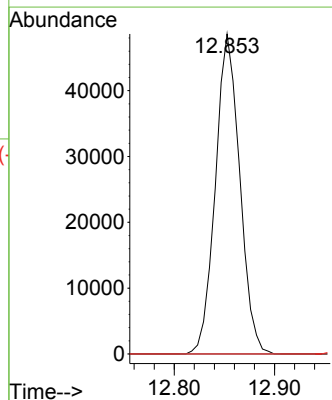
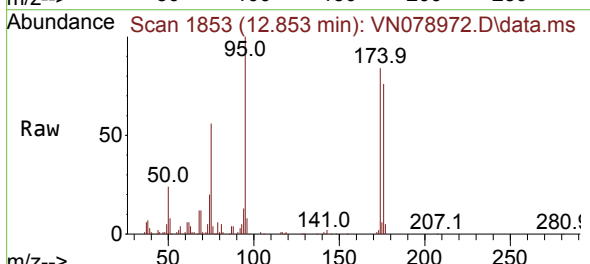
Instrument :
 MSVOA_N
 ClientSampleId :

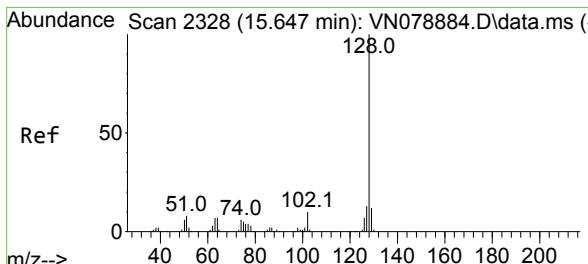
Tgt Ion: 75 Resp: 81961
 Ion Ratio Lower Upper
 75 100
 77 1.1 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.373 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078972.D
 Acq: 21 Aug 2023 14:07

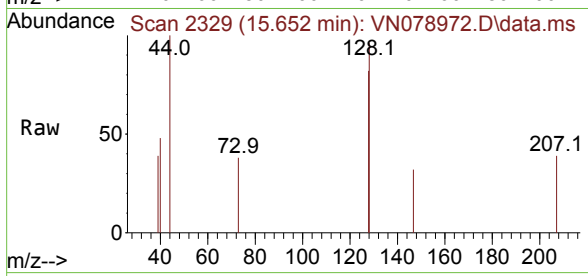
Tgt Ion: 75 Resp: 81961
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#





#95
 Naphthalene
 Concen: 2.808 ug/l
 RT: 15.652 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN078972.D
 Acq: 21 Aug 2023 14:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 1344

Ion	Ratio	Lower	Upper
128	100		
127	4.8	10.0	15.0#
129	0.0	8.7	13.1#

