

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078948.D
 Acq On : 18 Aug 2023 17:35
 Operator : JC\MD
 Sample : PB154902ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:45:35 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)

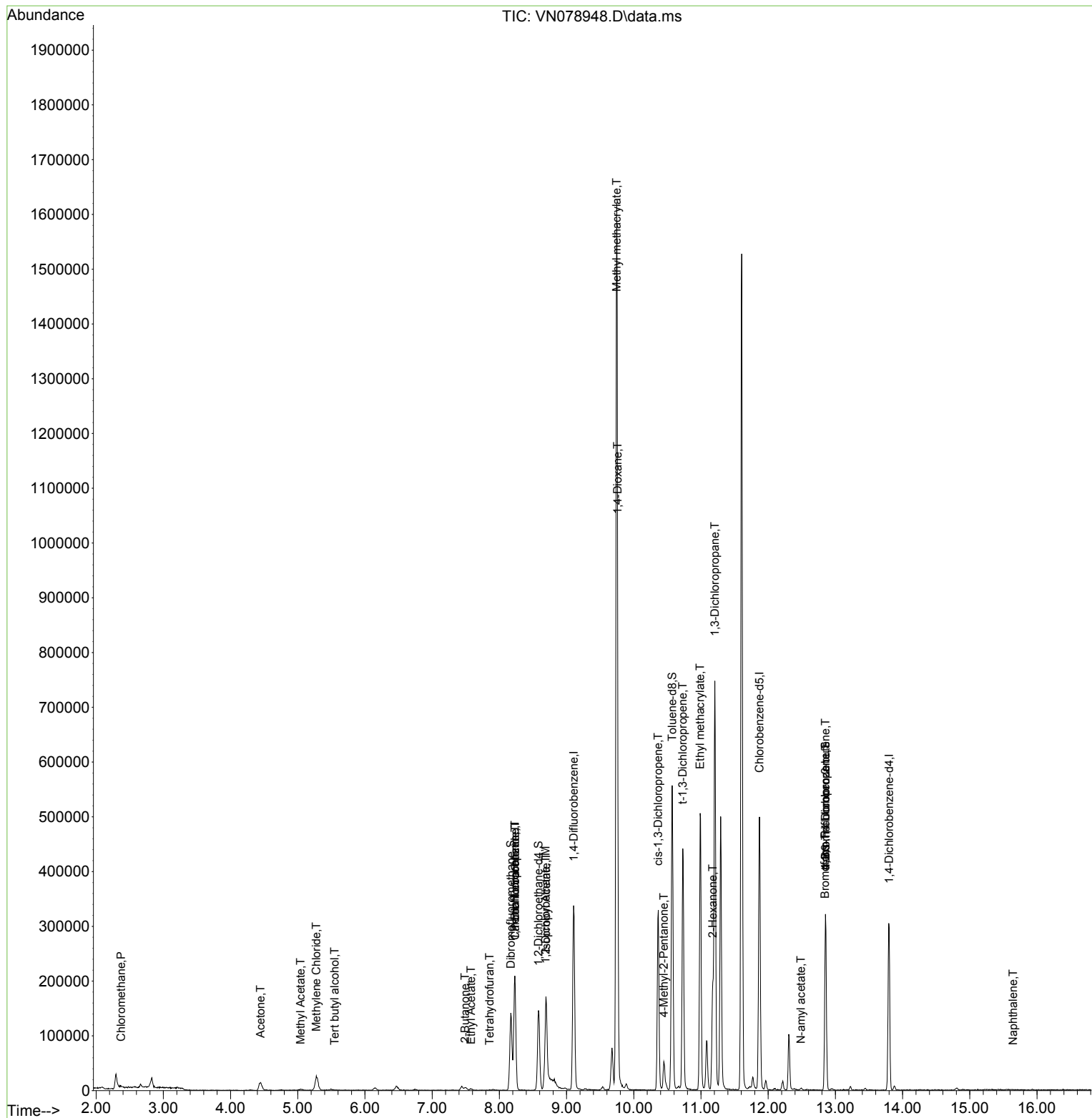
Internal Standards						
1) Pentafluorobenzene	8.230	168	146973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	280216	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	276667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	82965	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	118418	51.778	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.560%	
35) Dibromofluoromethane	8.171	113	97197	51.529	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.060%	
50) Toluene-d8	10.571	98	358691	51.213	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.420%	
62) 4-Bromofluorobenzene	12.853	95	105485	46.078	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	861	0.302	ug/l	94
11) Tert butyl alcohol	5.547	59	117	0.305	ug/l #	72
16) Acetone	4.447	43	30149	31.949	ug/l	90
18) Methyl Acetate	5.042	43	4112	1.031	ug/l #	55
20) Methylene Chloride	5.277	84	17523	8.714	ug/l #	82
25) 2-Butanone	7.488	43	9211	6.088	ug/l #	83
29) Tetrahydrofuran	7.853	42	659	0.658	ug/l #	28
31) Cyclohexane	8.230	56	4044	Below Cal	#	32
36) 1,1-Dichloropropene	8.235	75	13395	4.721	ug/l #	47
37) Ethyl Acetate	7.577	43	4881	1.537	ug/l #	74
38) Carbon Tetrachloride	8.235	117	15313	5.386	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	929	0.296	ug/l #	73
43) Isopropyl Acetate	8.694	43	209797	37.389	ug/l #	74
48) Methyl methacrylate	9.747	41	151505	59.584	ug/l #	30
49) 1,4-Dioxane	9.759	88	125	2.886	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	42099	12.650	ug/l #	78
53) t-1,3-Dichloropropene	10.729	75	1044	0.322	ug/l #	58
54) cis-1,3-Dichloropropene	10.365	75	54409	15.404	ug/l #	72
56) Ethyl methacrylate	10.988	69	2185	0.683	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7639	2.069	ug/l #	42
59) 2-Hexanone	11.176	43	162899	67.579	ug/l #	19
71) Bromoform	12.847	173	695	0.430	ug/l #	1
74) N-amyl acetate	12.488	43	2160	0.619	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	60087	30.058	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60087	76.784	ug/l #	15
95) Naphthalene	15.647	128	291	2.647	ug/l #	70

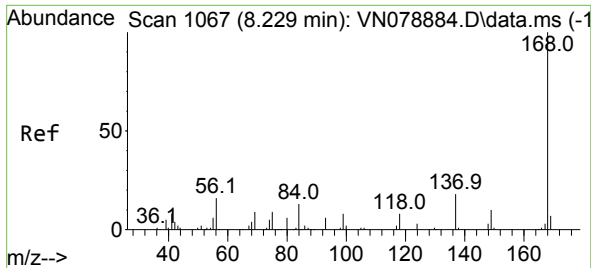
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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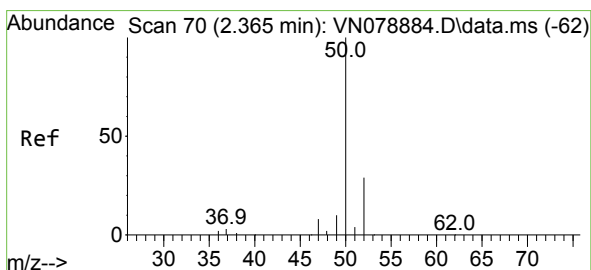
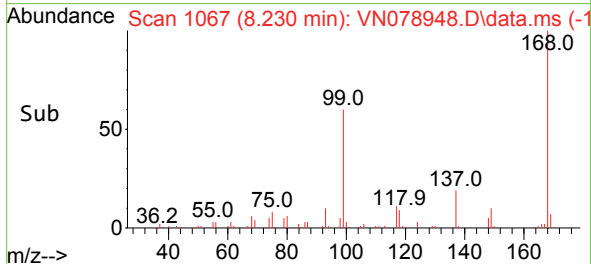
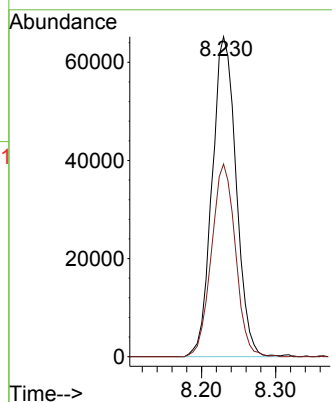
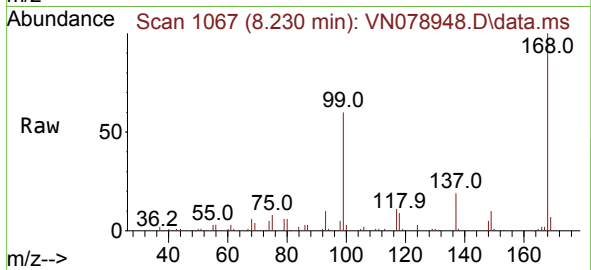




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

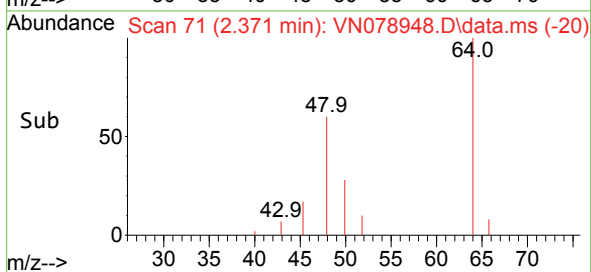
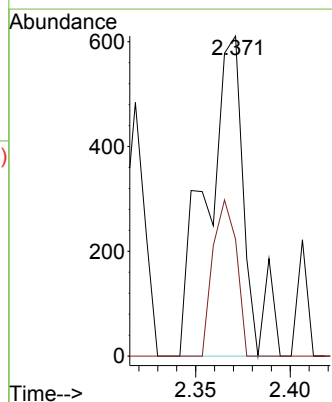
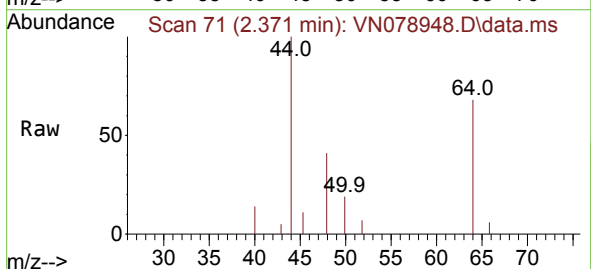
Instrument :
MSVOA_N
ClientSampleId :

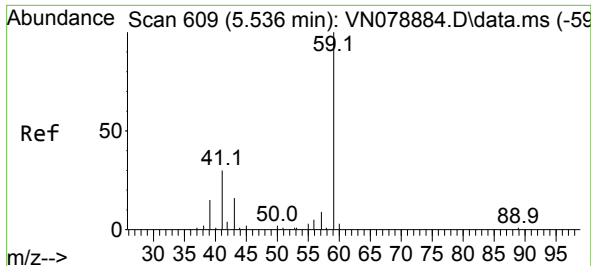
Tgt Ion:168 Resp: 146973
Ion Ratio Lower Upper
168 100
99 60.2 53.0 79.6



#3
Chloromethane
Concen: 0.302 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

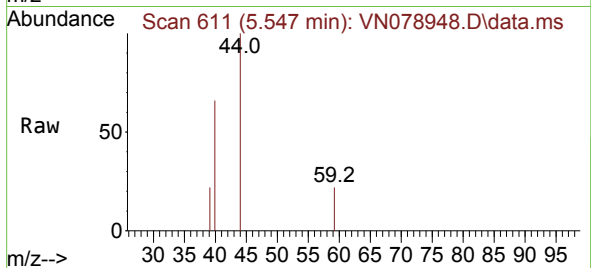
Tgt Ion: 50 Resp: 861
Ion Ratio Lower Upper
50 100
52 36.5 26.5 39.7



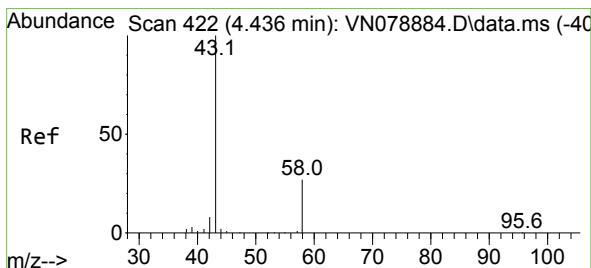
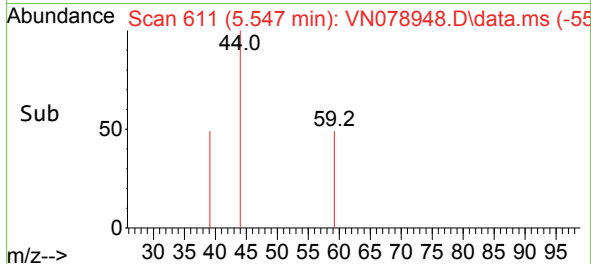
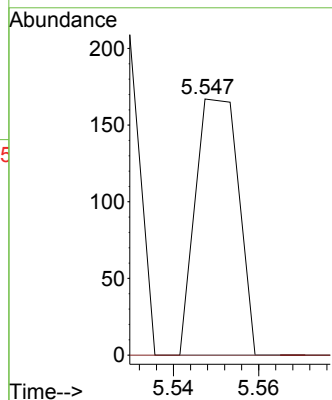


#11
Tert butyl alcohol
Concen: 0.305 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

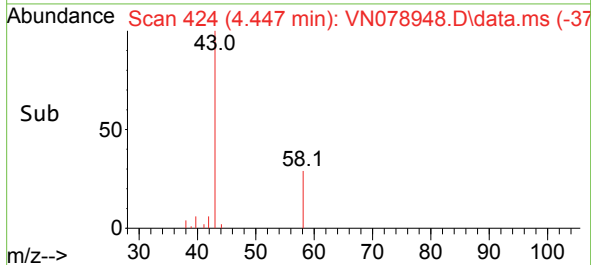
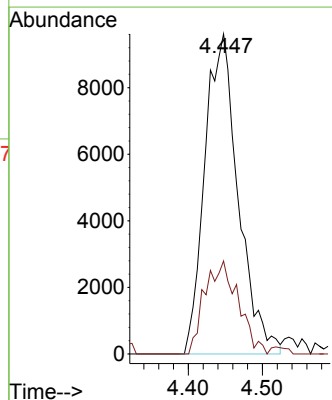
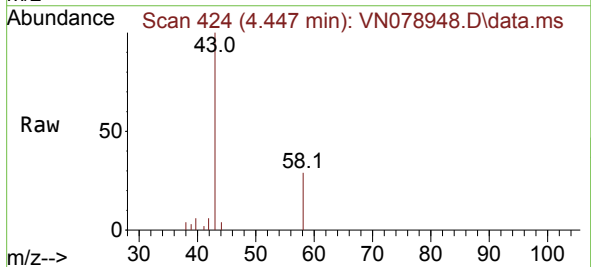


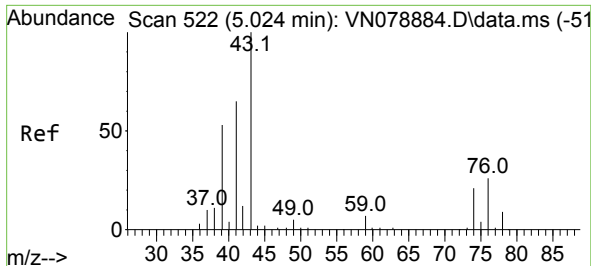
Tgt Ion: 59 Resp: 117
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 31.949 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 43 Resp: 30149
Ion Ratio Lower Upper
43 100
58 29.0 28.0 42.0

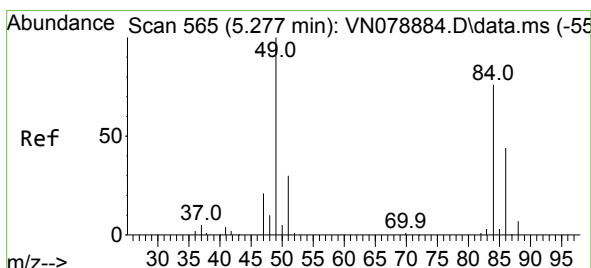
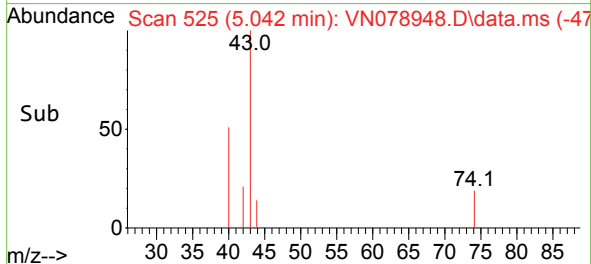
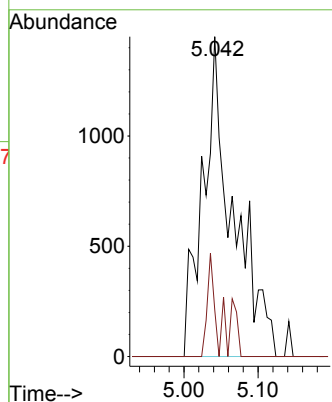
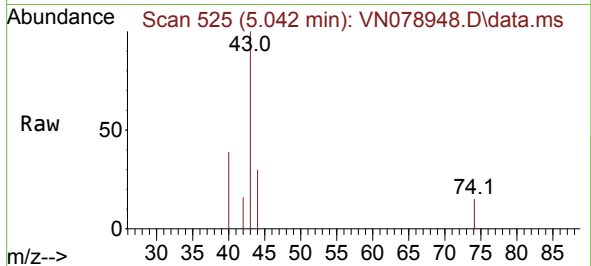




#18
Methyl Acetate
Concen: 1.031 ug/l
RT: 5.042 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

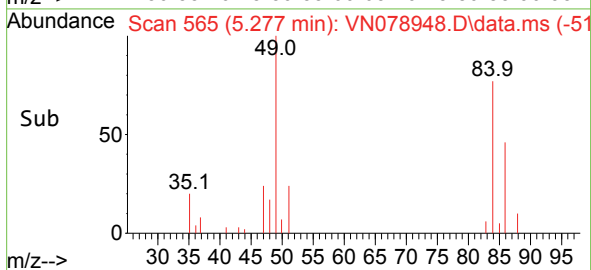
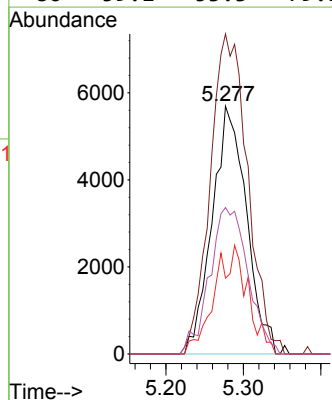
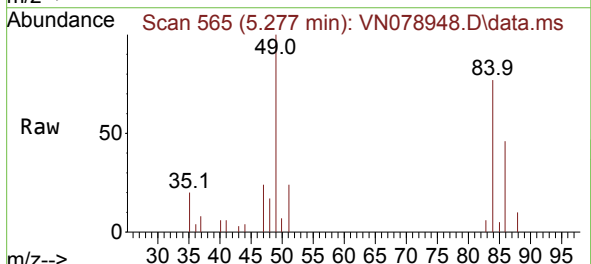
Instrument :
MSVOA_N
ClientSampleId :

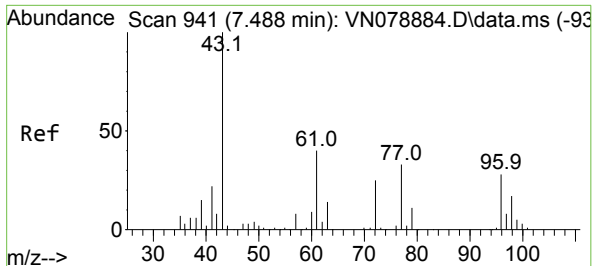
Tgt Ion: 43 Resp: 4112
Ion Ratio Lower Upper
43 100
74 7.2 26.2 39.4#



#20
Methylene Chloride
Concen: 8.714 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 84 Resp: 17523
Ion Ratio Lower Upper
84 100
49 129.2 79.7 119.5#
51 30.6 25.2 37.8
86 59.1 53.3 79.9

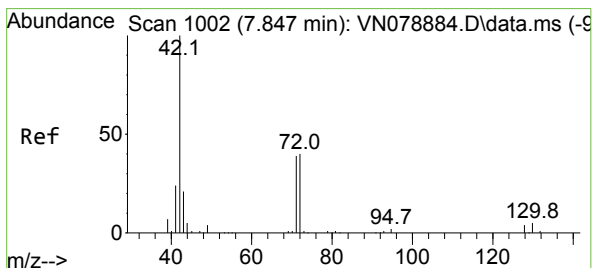
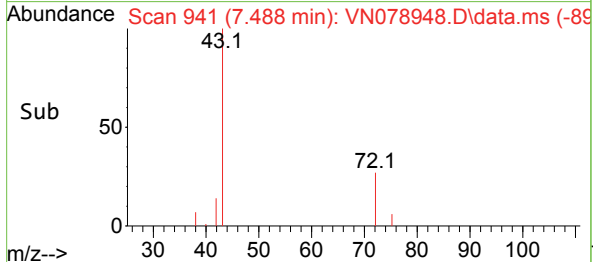
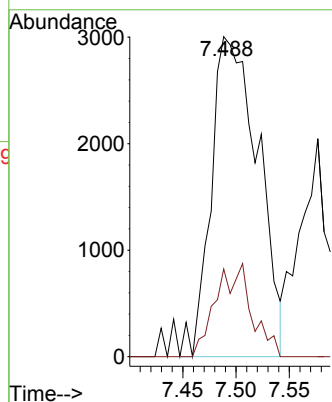
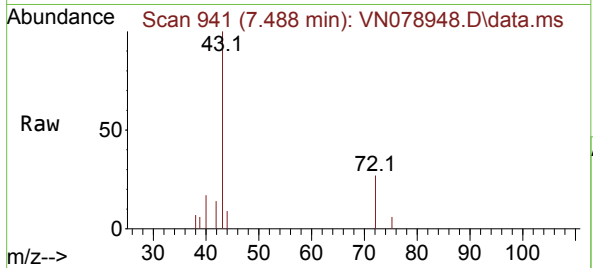




#25
2-Butanone
Concen: 6.088 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

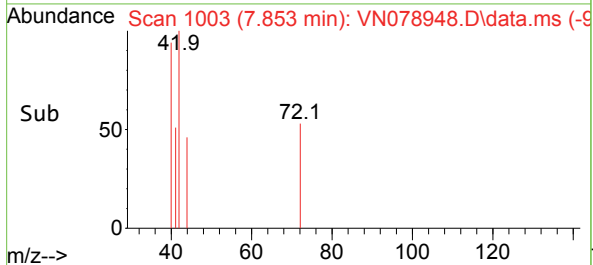
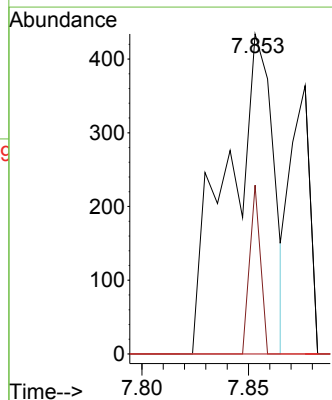
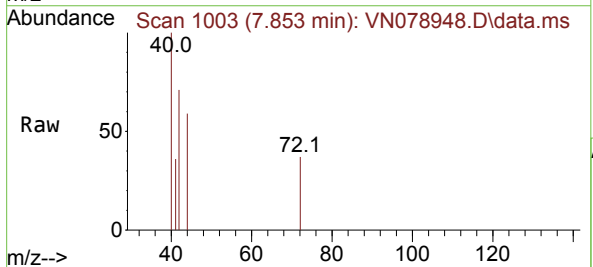
Instrument :
MSVOA_N
ClientSampleId :

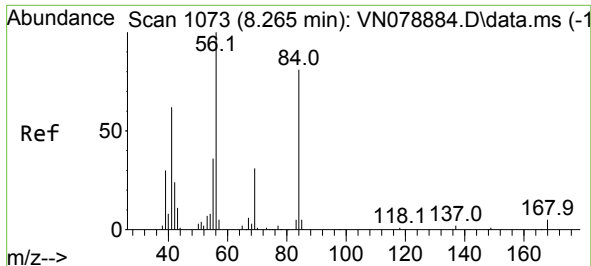
Tgt Ion: 43 Resp: 9211
Ion Ratio Lower Upper
43 100
72 27.4 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.658 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

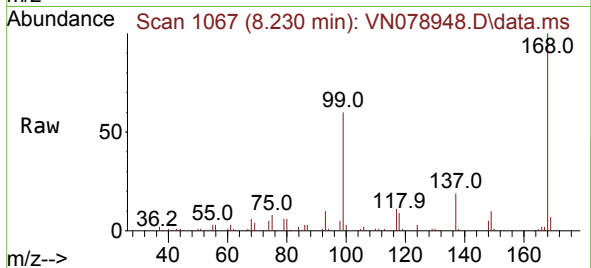
Tgt Ion: 42 Resp: 659
Ion Ratio Lower Upper
42 100
72 12.3 49.8 74.6#
71 0.0 47.4 71.2#



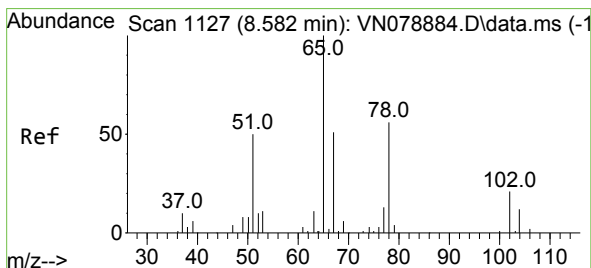
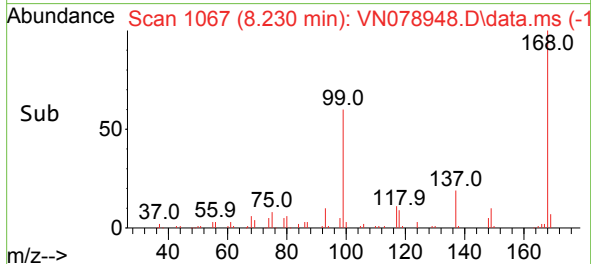
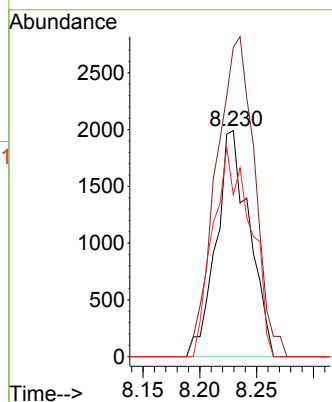


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

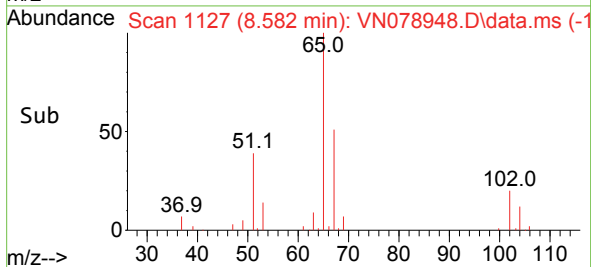
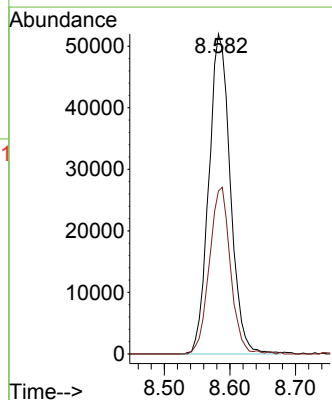
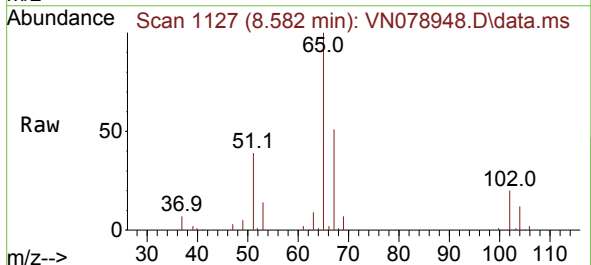


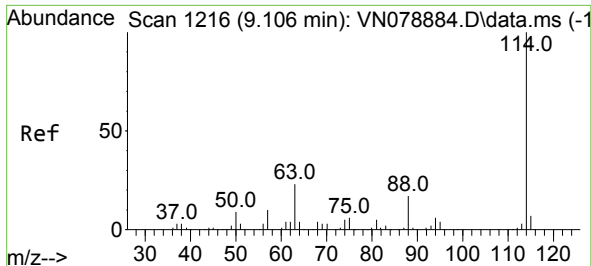
Tgt Ion: 56 Resp: 4044
Ion Ratio Lower Upper
56 100
69 136.7 26.8 40.2#
84 71.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 51.778 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 65 Resp: 118418
Ion Ratio Lower Upper
65 100
67 50.9 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

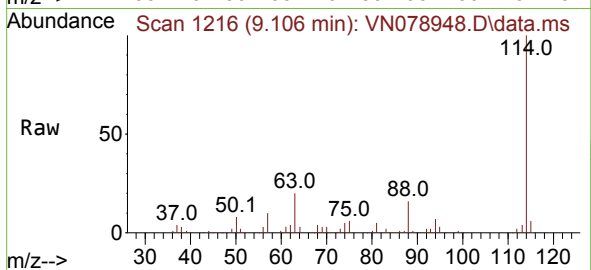
Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :



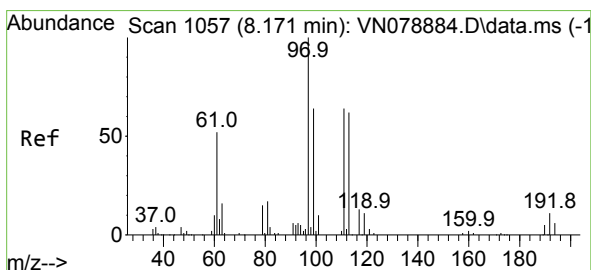
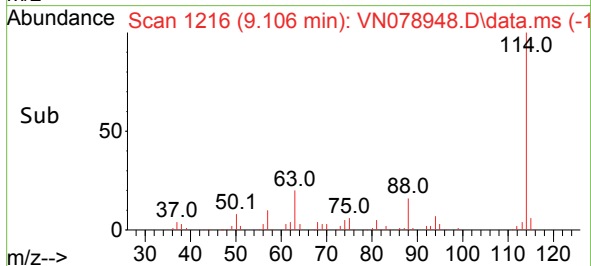
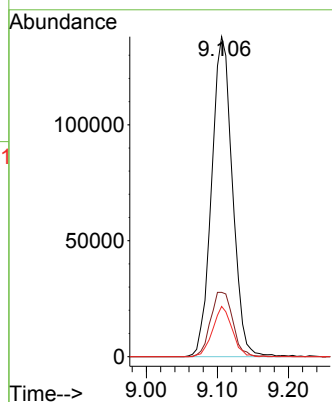
Tgt Ion:114 Resp: 280216

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.529 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

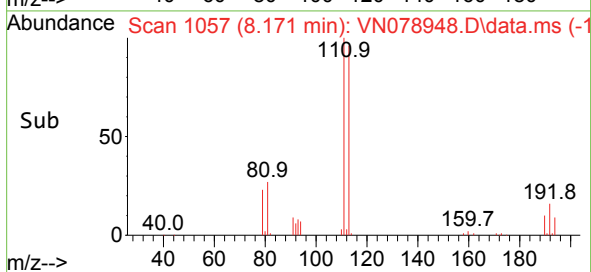
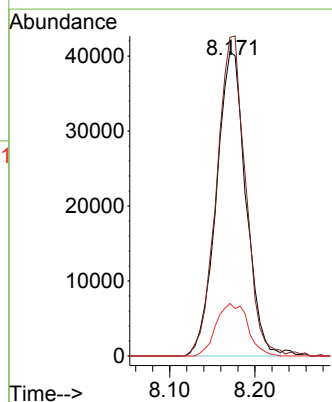
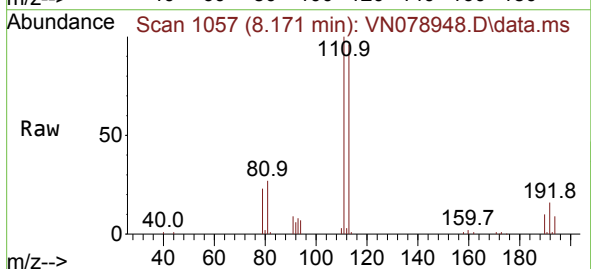
Tgt Ion:113 Resp: 97197

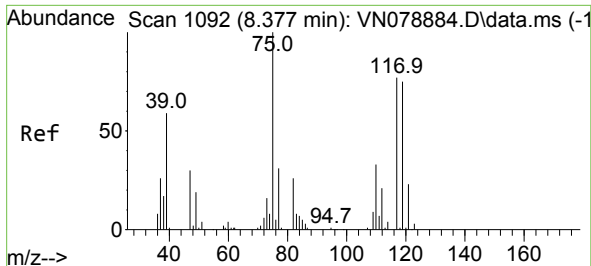
Ion Ratio Lower Upper

113 100

111 103.9 82.6 123.8

192 18.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

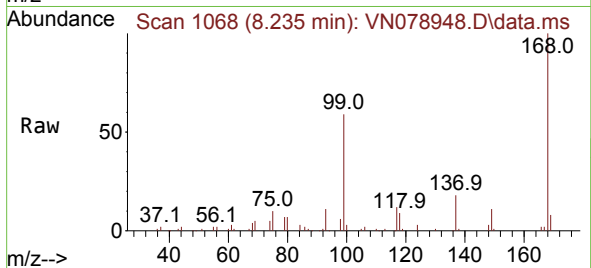
Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

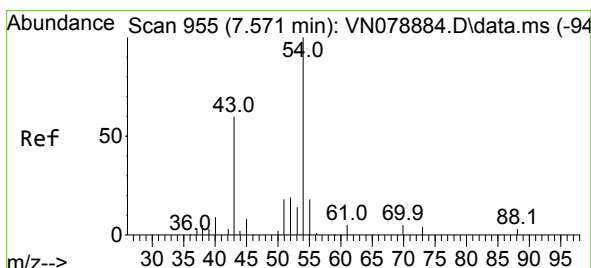
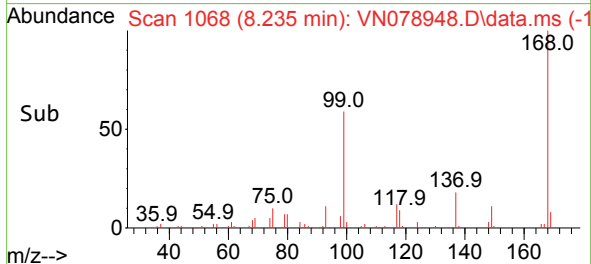
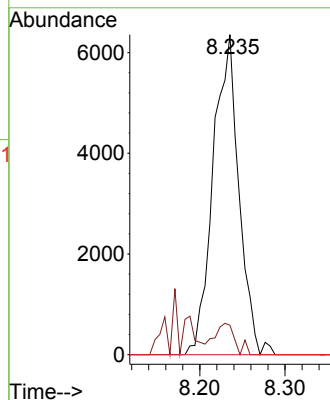
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	13395
Ion Ratio	Lower	Upper	
75	100		
110	7.9	19.1	57.3#
77	0.0	25.0	37.4#



#37

Ethyl Acetate

Concen: 1.537 ug/l

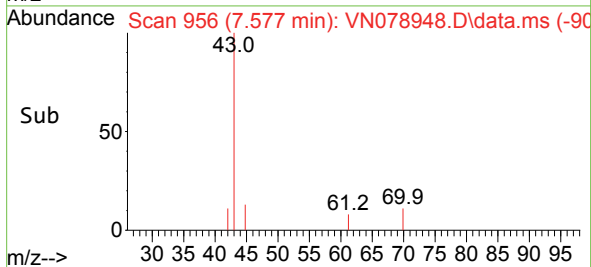
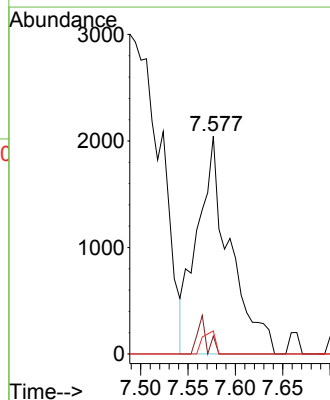
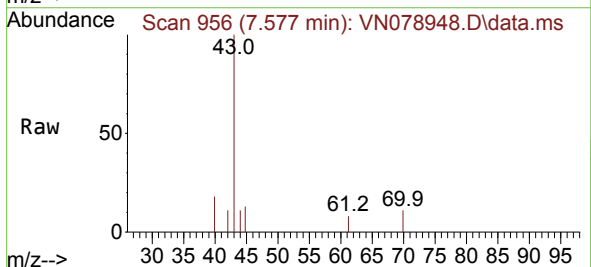
RT: 7.577 min Scan# 956

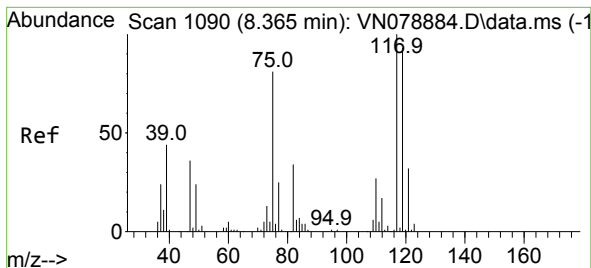
Delta R.T. 0.006 min

Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

Tgt Ion:	43	Resp:	4881
Ion Ratio	Lower	Upper	
43	100		
61	5.1	13.2	19.8#
70	4.1	11.3	16.9#





#38

Carbon Tetrachloride

Concen: 5.386 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.136 min

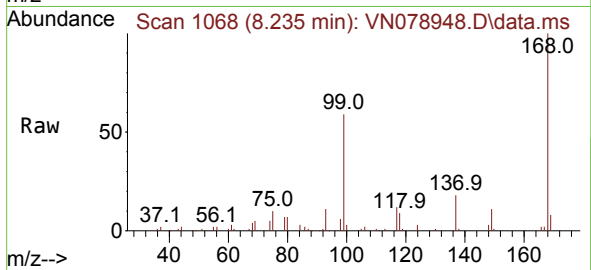
Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :



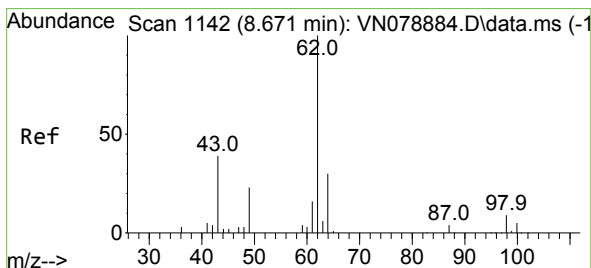
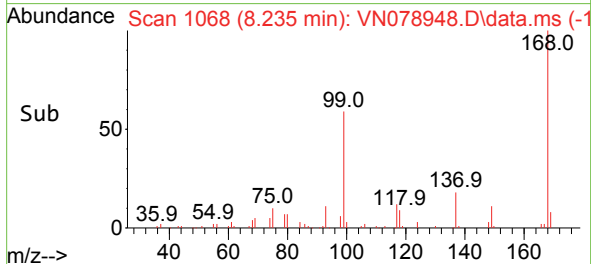
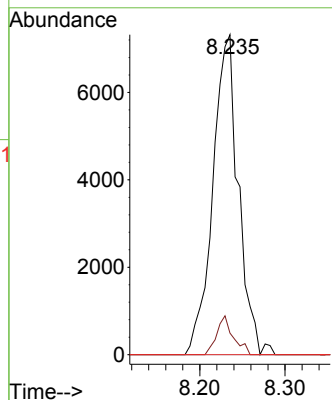
Tgt Ion:117 Resp: 15313

Ion Ratio Lower Upper

117 100

119 6.7 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.296 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN078948.D

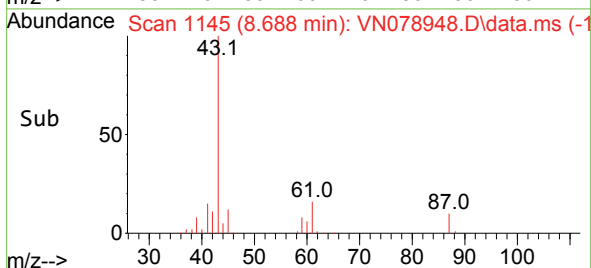
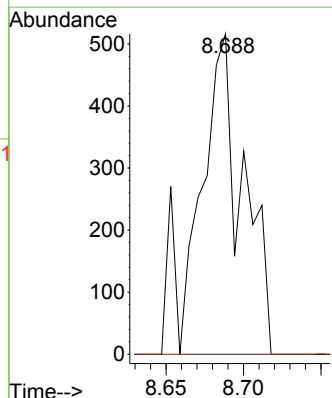
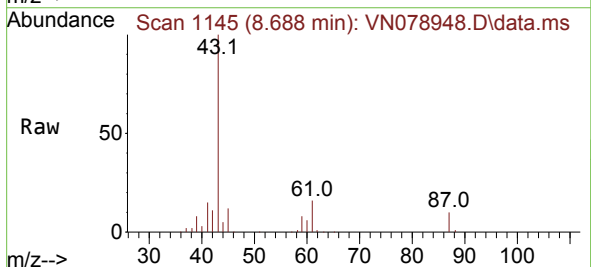
Acq: 18 Aug 2023 17:35

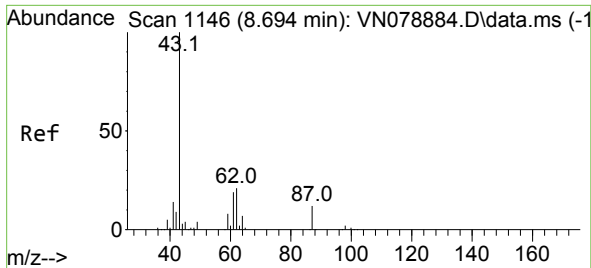
Tgt Ion: 62 Resp: 929

Ion Ratio Lower Upper

62 100

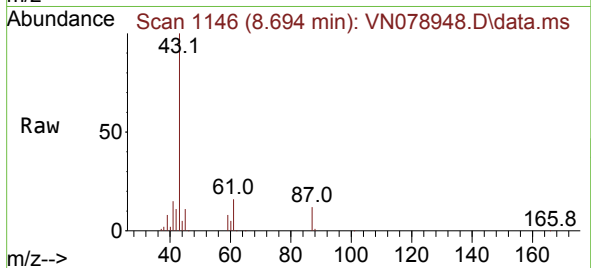
98 0.0 0.0 19.8



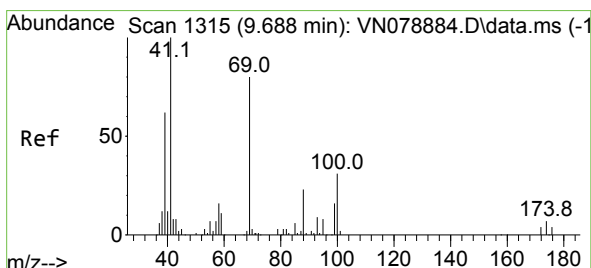
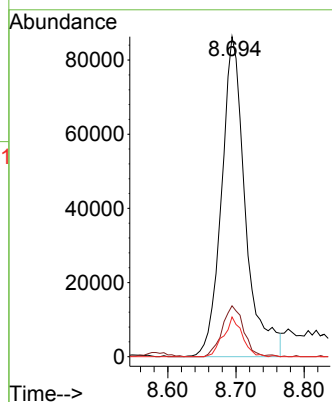
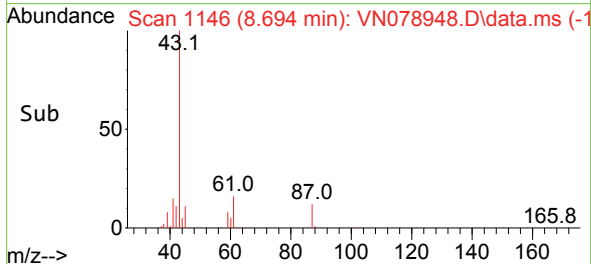


#43
Isopropyl Acetate
Concen: 37.389 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

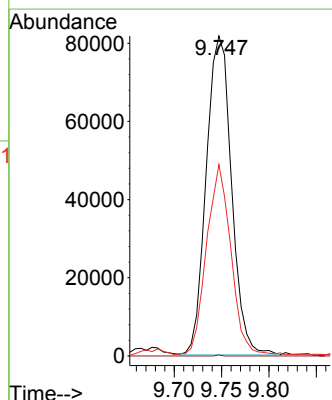
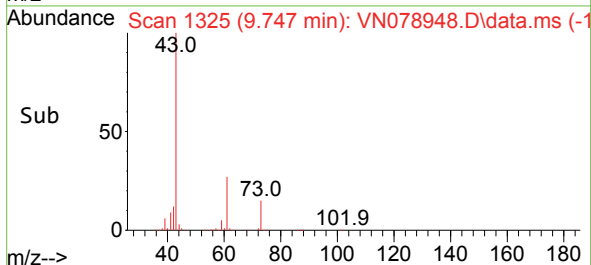
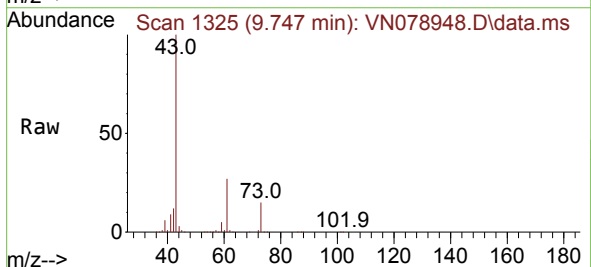


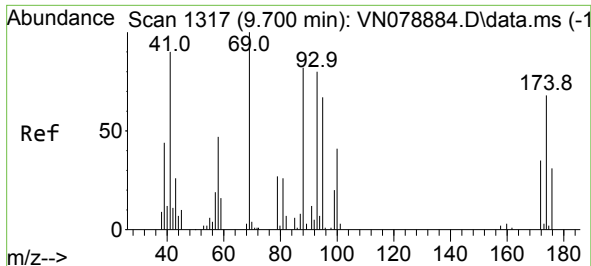
Tgt Ion: 43 Resp: 209797
Ion Ratio Lower Upper
43 100
61 14.5 24.7 37.1#
87 9.8 14.6 21.8#



#48
Methyl methacrylate
Concen: 59.584 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 41 Resp: 151505
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 57.8 54.6 81.8





#49

1,4-Dioxane

Concen: 2.886 ug/l

RT: 9.759 min Scan# 1317

Delta R.T. 0.059 min

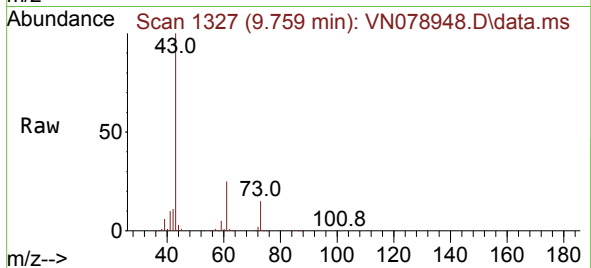
Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :



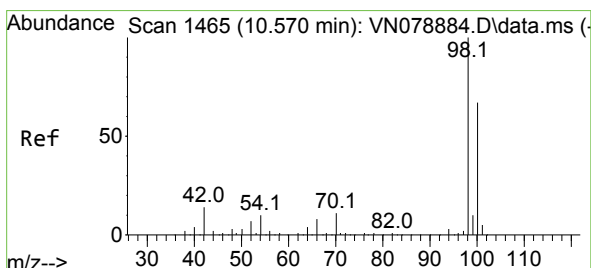
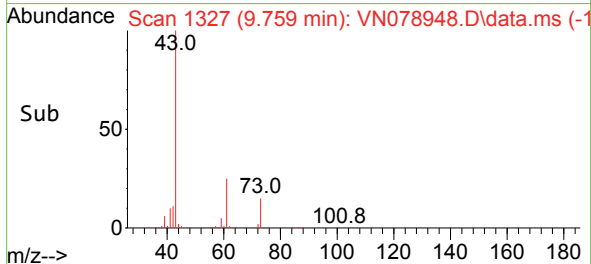
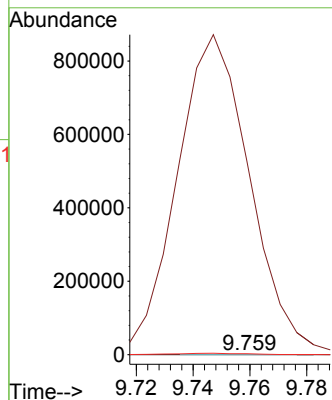
Tgt Ion: 88 Resp: 125

Ion Ratio Lower Upper

88 100

43 1259175.2 17.0 25.6#

58 5816.0 47.0 70.4#



#50

Toluene-d8

Concen: 51.213 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078948.D

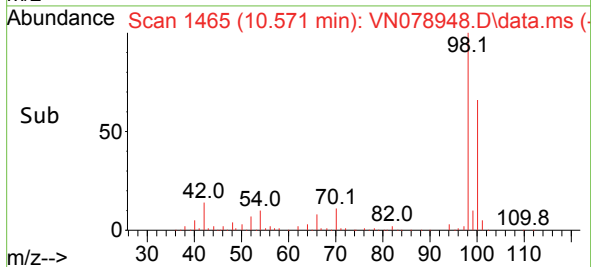
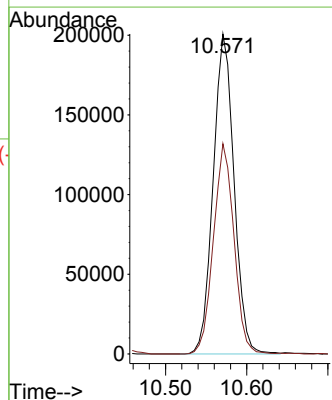
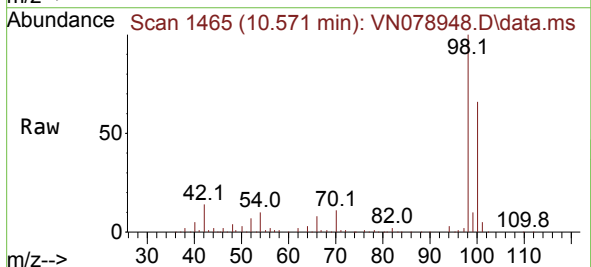
Acq: 18 Aug 2023 17:35

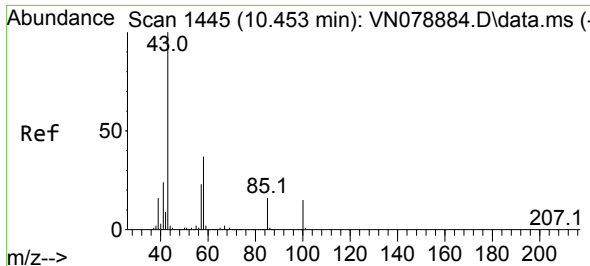
Tgt Ion: 98 Resp: 358691

Ion Ratio Lower Upper

98 100

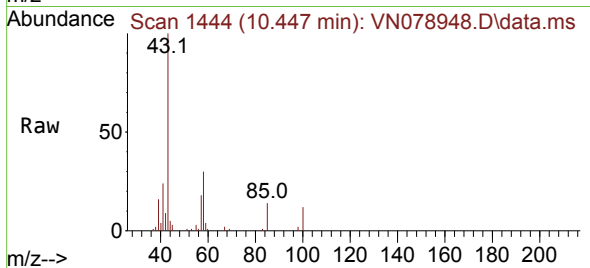
100 64.7 52.0 78.0



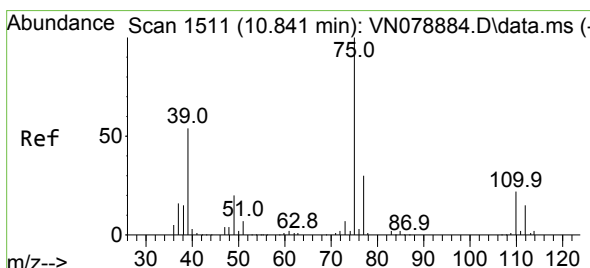
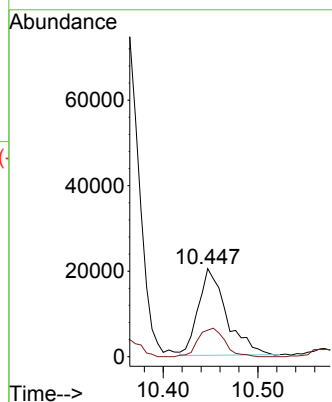
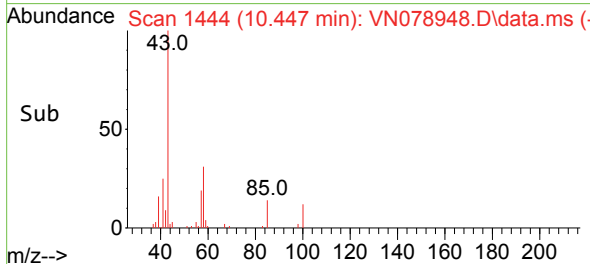


#51
4-Methyl-2-Pentanone
Concen: 12.650 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

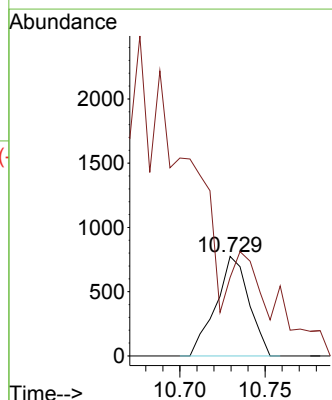
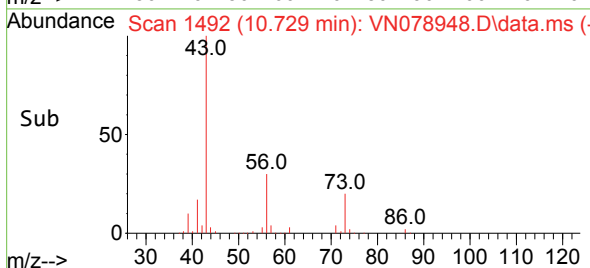
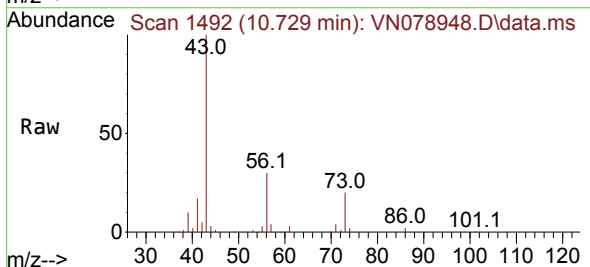


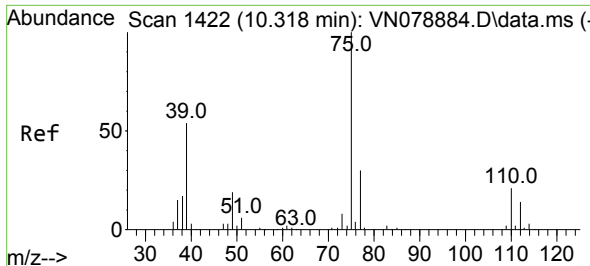
Tgt Ion: 43 Resp: 42099
Ion Ratio Lower Upper
43 100
58 31.1 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.322 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 75 Resp: 1044
Ion Ratio Lower Upper
75 100
77 8.5 25.4 38.0#

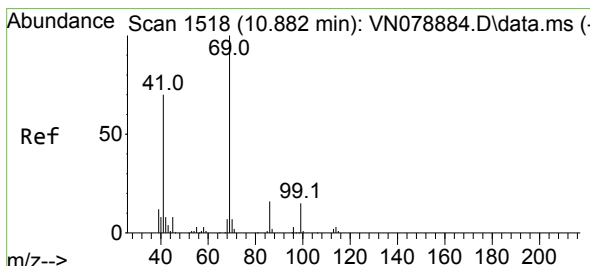
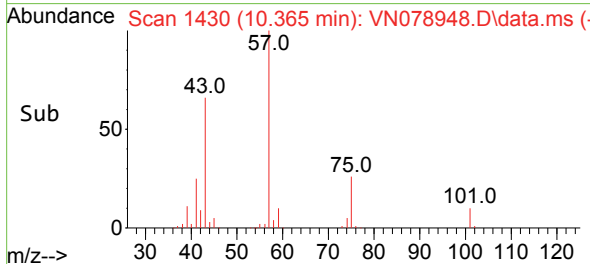
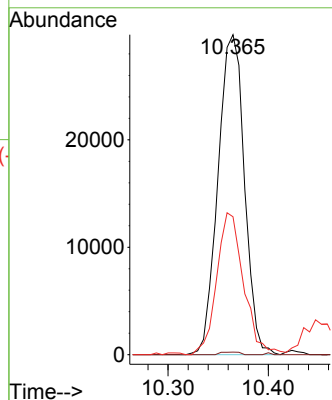
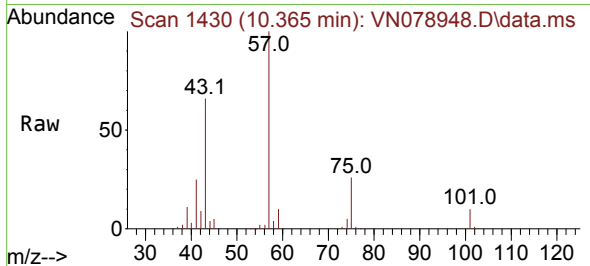




#54
 cis-1,3-Dichloropropene
 Concen: 15.404 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078948.D
 Acq: 18 Aug 2023 17:35

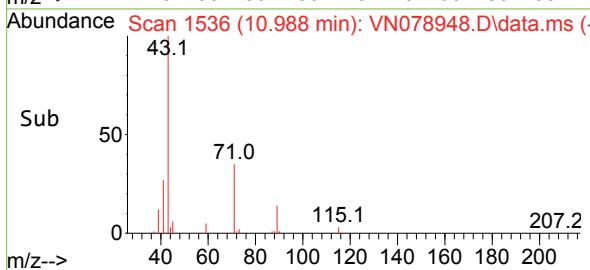
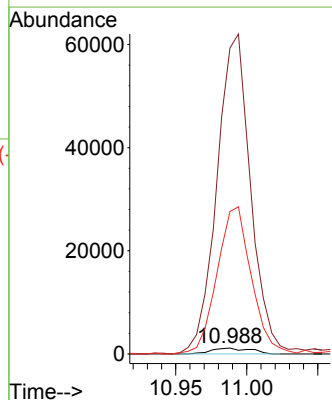
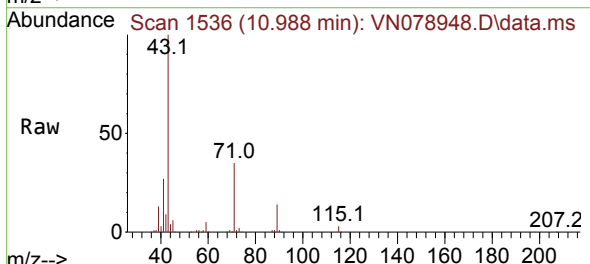
Instrument :
 MSVOA_N
 ClientSampleId :

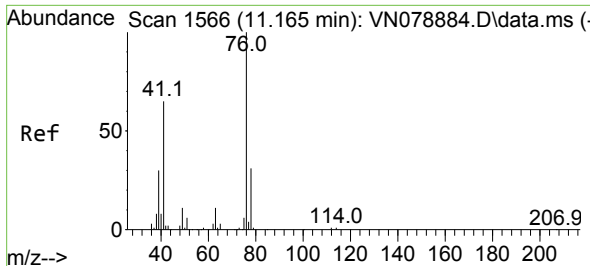
Tgt Ion: 75 Resp: 54409
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.1 39.1#
 39 42.6 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.683 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078948.D
 Acq: 18 Aug 2023 17:35

Tgt Ion: 69 Resp: 2185
 Ion Ratio Lower Upper
 69 100
 41 4704.9 39.6 59.4#
 39 2190.8 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 2.069 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN078948.D

Acq: 18 Aug 2023 17:35

Instrument :

MSVOA_N

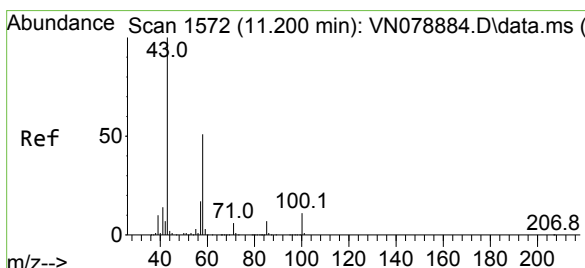
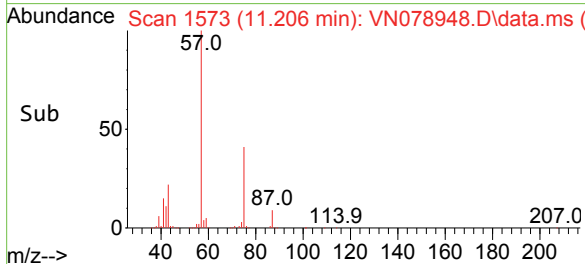
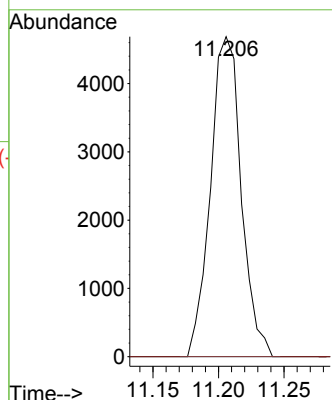
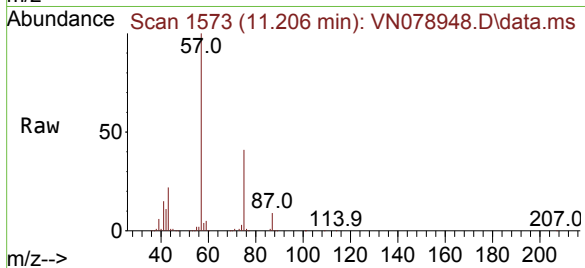
ClientSampleId :

Tgt Ion: 76 Resp: 7639

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 67.579 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078948.D

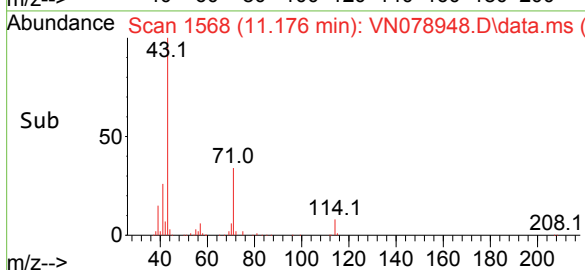
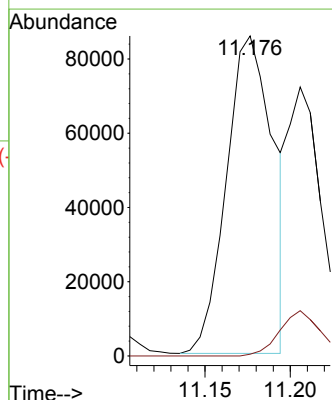
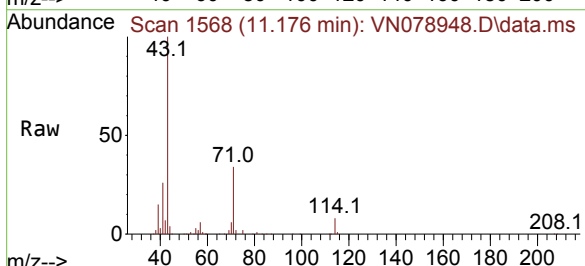
Acq: 18 Aug 2023 17:35

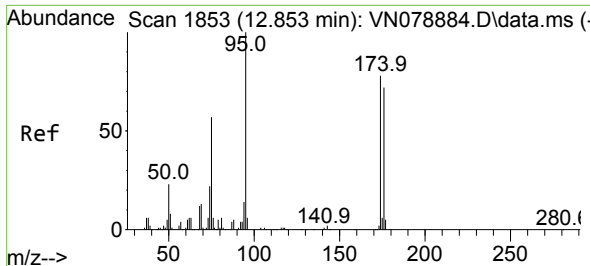
Tgt Ion: 43 Resp: 162899

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

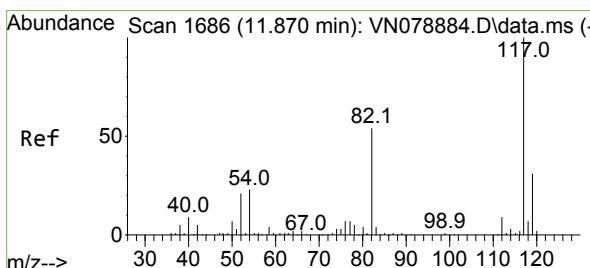
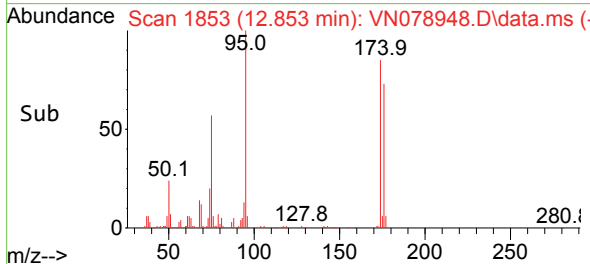
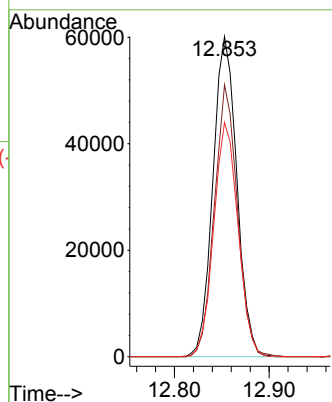
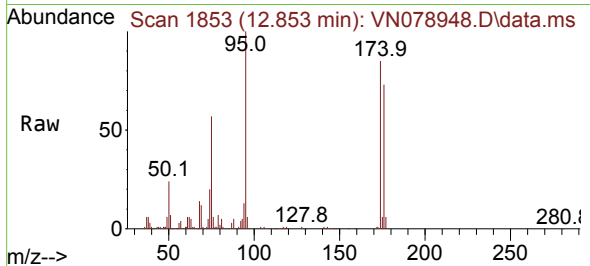




#62
4-Bromofluorobenzene
Concen: 46.078 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

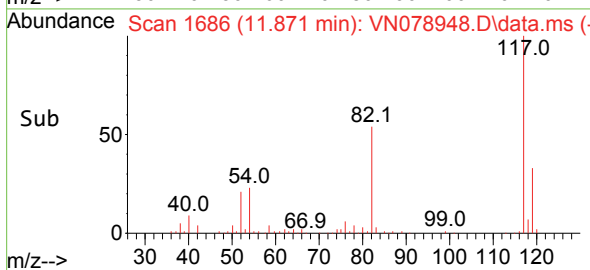
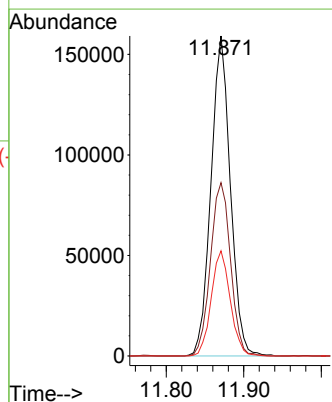
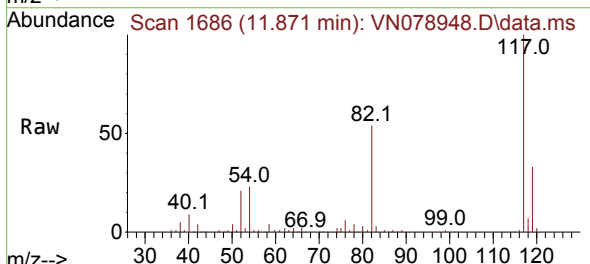
Instrument :
MSVOA_N
ClientSampleId :

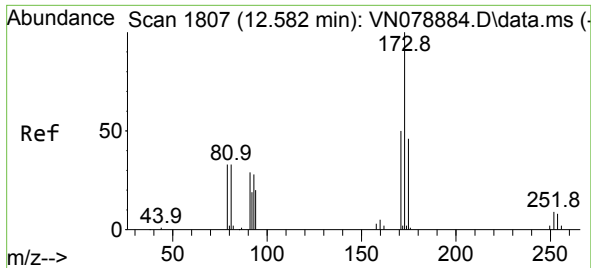
Tgt Ion: 95 Resp: 105485
Ion Ratio Lower Upper
95 100
174 81.9 0.0 143.8
176 74.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 117 Resp: 276667
Ion Ratio Lower Upper
117 100
82 54.2 44.0 66.0
119 32.9 25.6 38.4

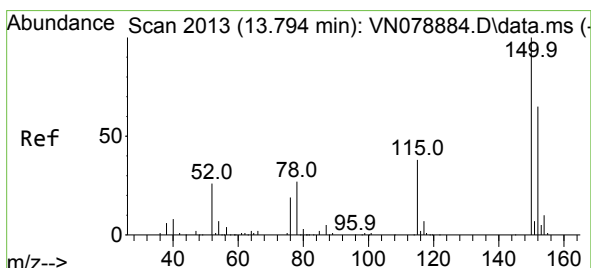
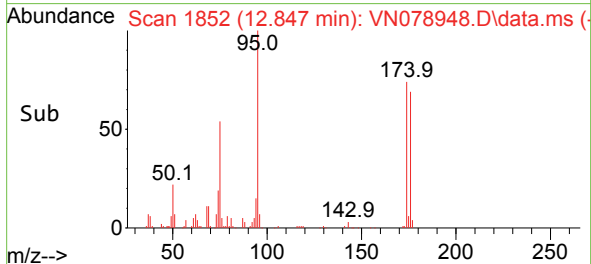
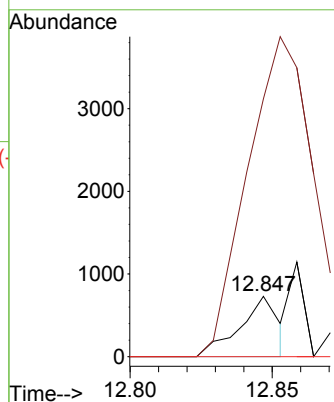
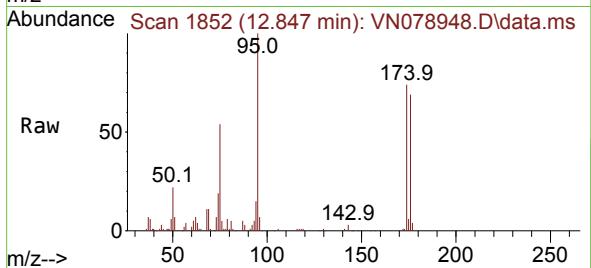




#71
Bromoform
Concen: 0.430 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

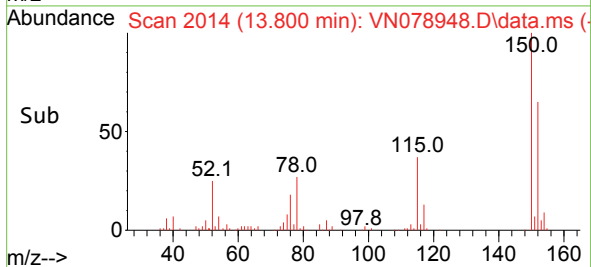
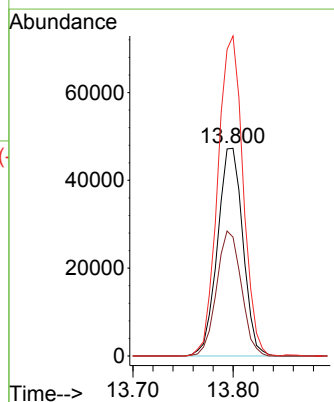
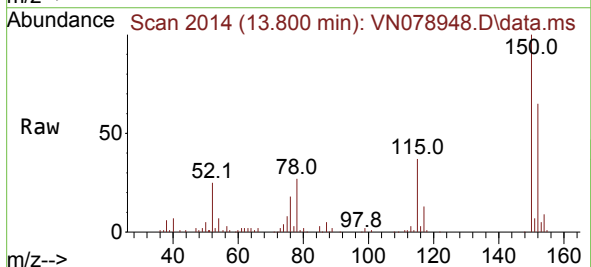
Instrument :
MSVOA_N
ClientSampleId :

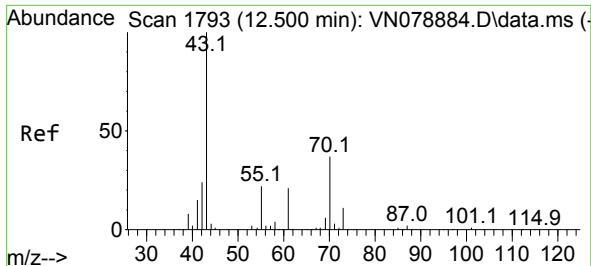
Tgt Ion:173 Resp: 695
Ion Ratio Lower Upper
173 100
175 717.4 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.006 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

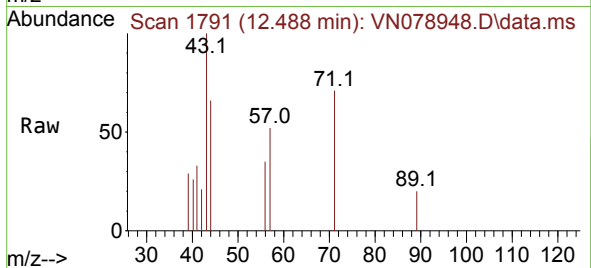
Tgt Ion:152 Resp: 82965
Ion Ratio Lower Upper
152 100
115 58.5 32.3 96.8
150 153.3 0.0 355.8



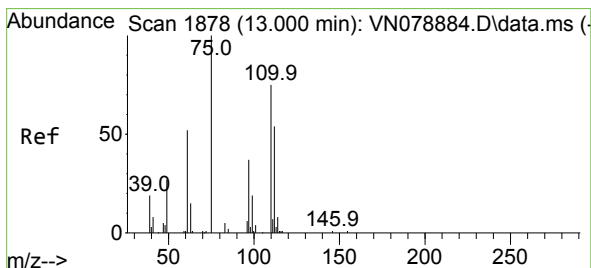
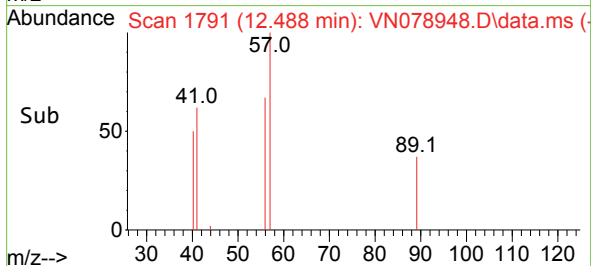
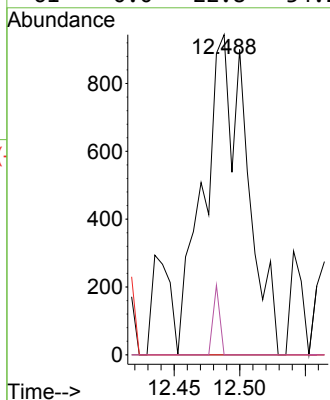


#74
N-amy1 acetate
Concen: 0.619 ug/l
RT: 12.488 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

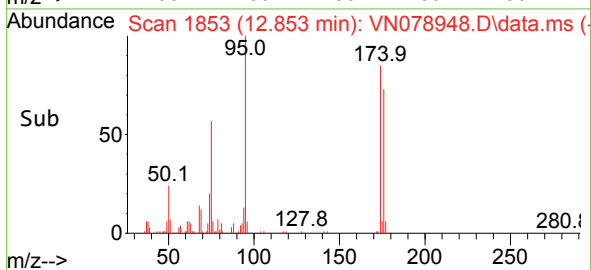
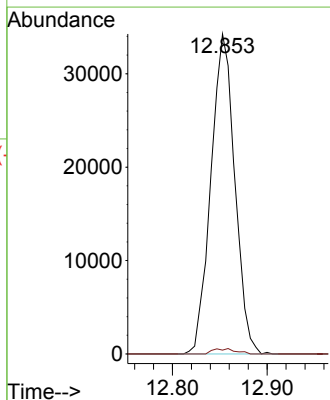
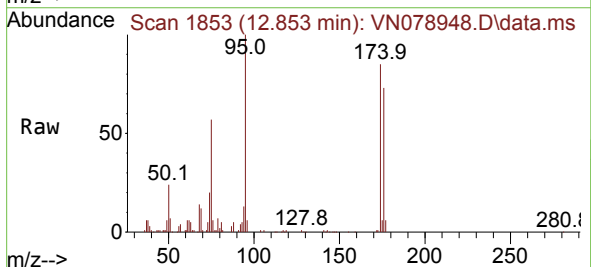


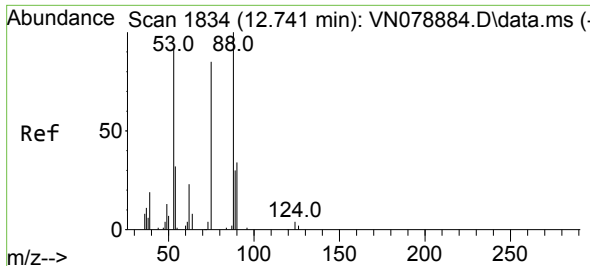
Tgt Ion: 43	Resp: 2160
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 0.0	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 30.058 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion: 75	Resp: 60087
Ion Ratio	Lower Upper
75 100	
77 1.6	84.5 253.5#

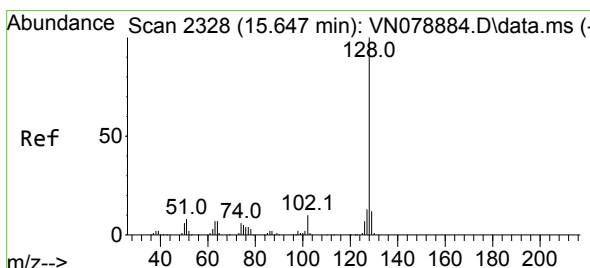
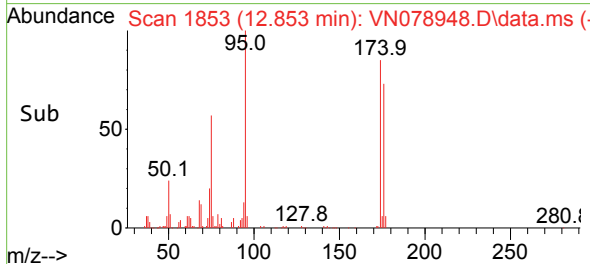
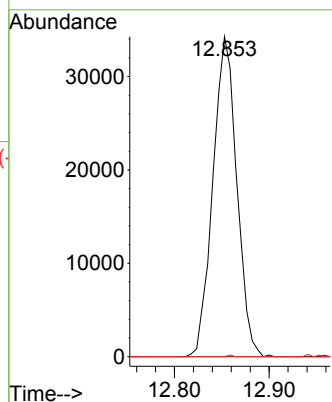
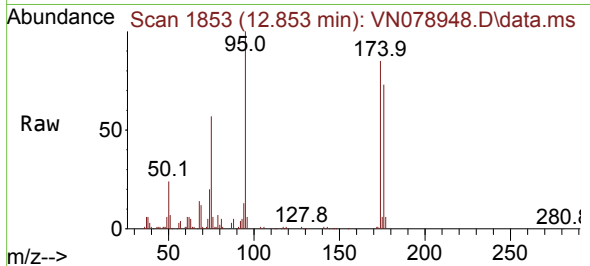




#81
trans-1,4-Dichloro-2-butene
Concen: 76.784 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 60087
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#95
Naphthalene
Concen: 2.647 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078948.D
Acq: 18 Aug 2023 17:35

Tgt Ion:128 Resp: 291
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

