

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081023\
 Data File : VN078831.D
 Acq On : 10 Aug 2023 12:43
 Operator : JC\MD
 Sample : PB154726ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 23:49:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 05:03:52 2023
 Response via : Initial Calibration

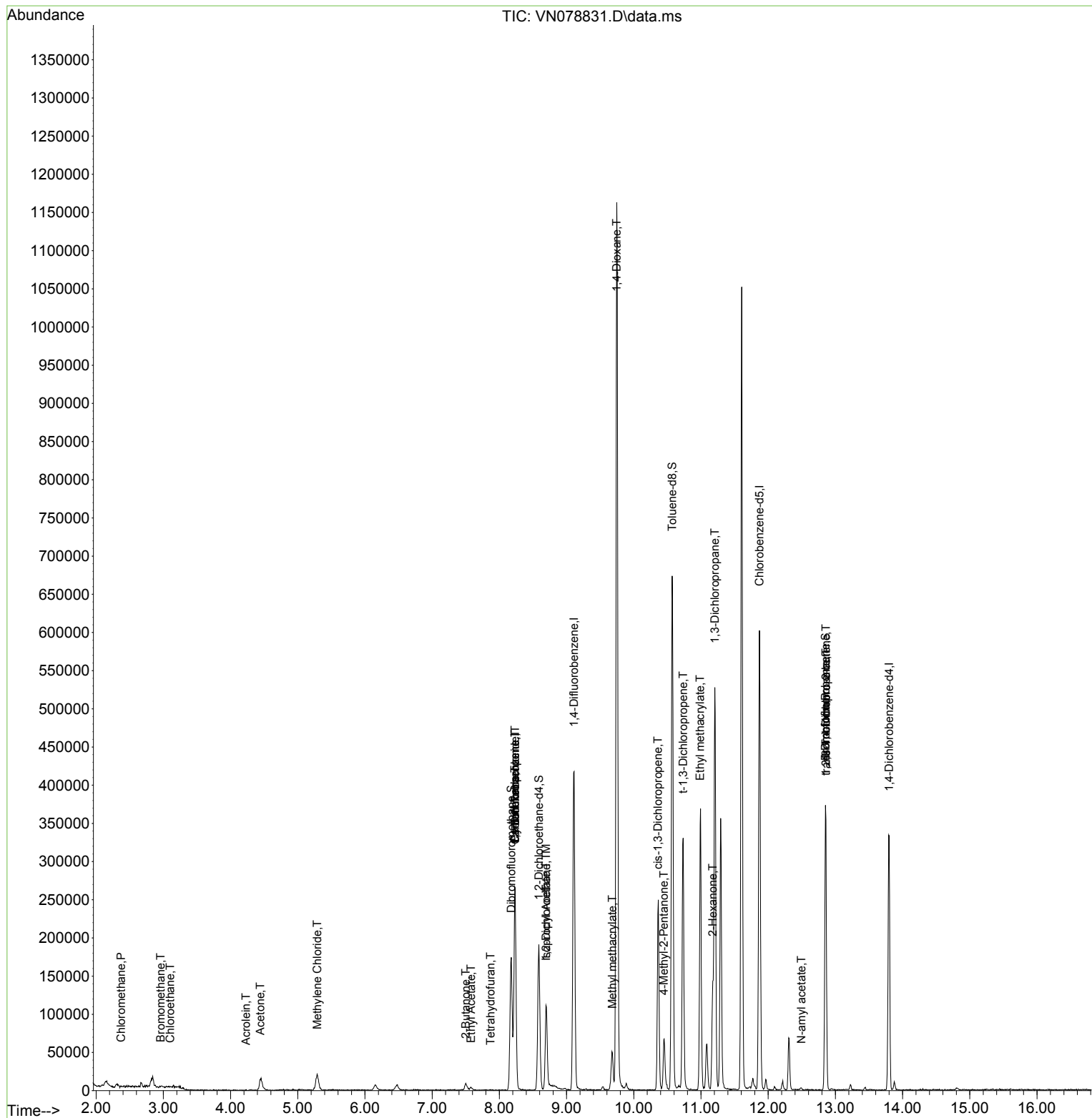
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	179520	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	348584	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	331725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	86555	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	144888	53.836	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.680%	
35) Dibromofluoromethane	8.177	113	120790	51.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.620%	
50) Toluene-d8	10.571	98	453709	52.374	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.740%	
62) 4-Bromofluorobenzene	12.853	95	120326	46.477	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.960%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	824	0.267	ug/l #	29
5) Bromomethane	2.959	94	799	0.387	ug/l #	67
6) Chloroethane	3.100	64	488	0.254	ug/l #	43
13) Acrolein	4.230	56	113	0.283	ug/l #	16
16) Acetone	4.442	43	13083	12.635	ug/l	89
20) Methylene Chloride	5.289	84	14383	5.608	ug/l #	86
25) 2-Butanone	7.500	43	14477	8.256	ug/l #	87
29) Tetrahydrofuran	7.871	42	239	0.204	ug/l #	20
31) Cyclohexane	8.230	56	4780	1.209	ug/l #	50
36) 1,1-Dichloropropene	8.235	75	16986	4.651	ug/l #	48
37) Ethyl Acetate	7.577	43	5974	1.539	ug/l #	73
38) Carbon Tetrachloride	8.235	117	20525	5.452	ug/l #	14
42) 1,2-Dichloroethane	8.694	62	902	0.227	ug/l #	73
43) Isopropyl Acetate	8.694	43	126087	19.260	ug/l #	78
48) Methyl methacrylate	9.682	41	3568	1.180	ug/l #	28
49) 1,4-Dioxane	9.747	88	79	1.608	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	53728	13.399	ug/l #	78
53) t-1,3-Dichloropropene	10.735	75	981	0.245	ug/l #	83
54) cis-1,3-Dichloropropene	10.359	75	41701	9.576	ug/l #	71
56) Ethyl methacrylate	10.988	69	1543	0.397	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4967	1.065	ug/l #	42
59) 2-Hexanone	11.176	43	114435	40.303	ug/l #	19
71) Bromoform	12.853	173	959	0.470	ug/l #	1
74) N-amyl acetate	12.494	43	1745	0.452	ug/l #	39
76) 1,2,3-Trichloropropane	12.859	75	69875	29.859	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	69875	80.122	ug/l #	15

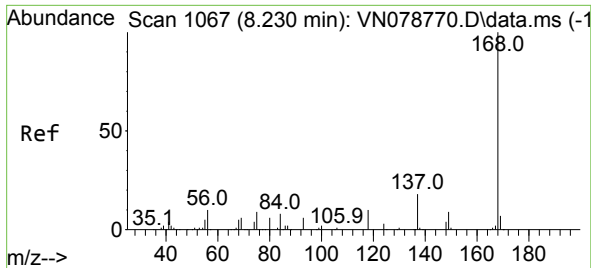
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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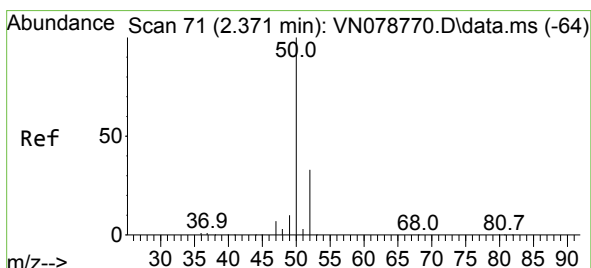
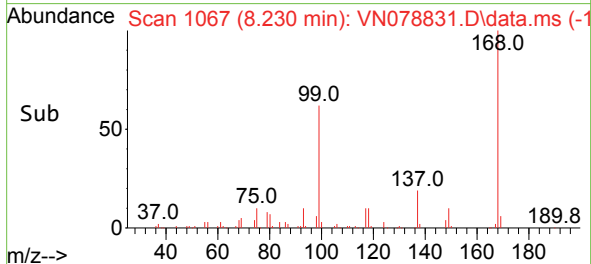
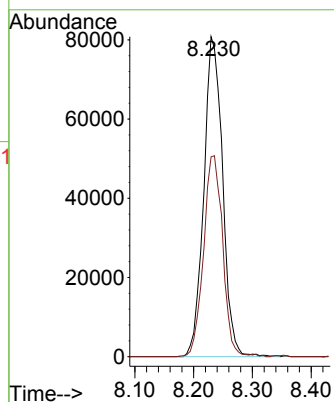
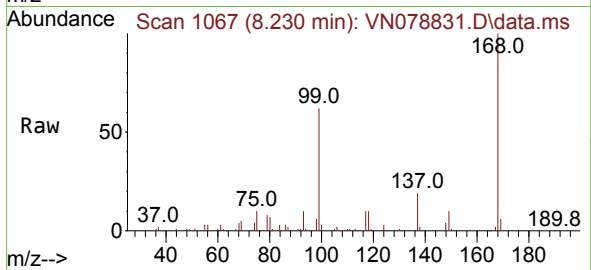




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

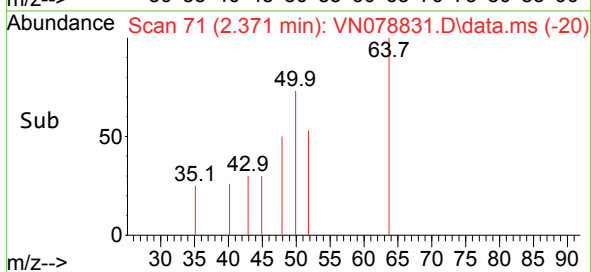
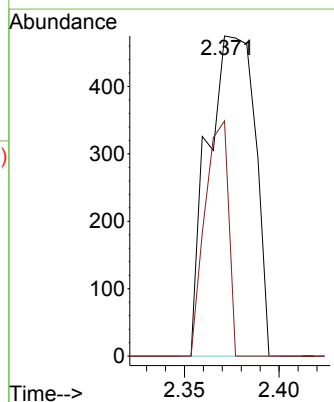
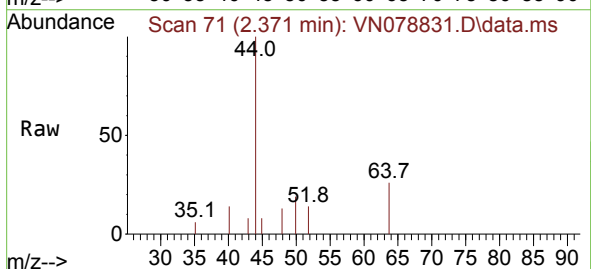
Instrument :
MSVOA_N
ClientSampleId :

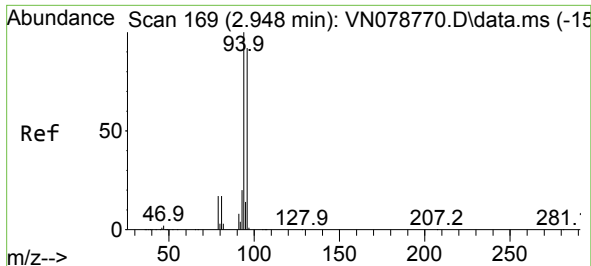
Tgt Ion:168 Resp: 179520
Ion Ratio Lower Upper
168 100
99 62.3 53.0 79.6



#3
Chloromethane
Concen: 0.267 ug/l
RT: 2.371 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 50 Resp: 824
Ion Ratio Lower Upper
50 100
52 73.5 26.5 39.7#

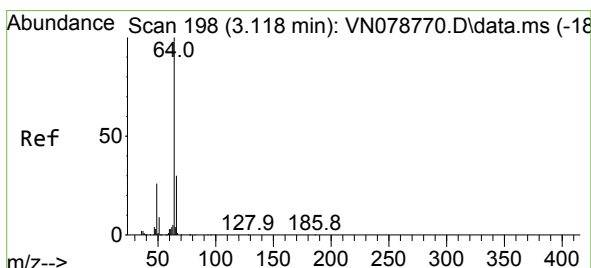
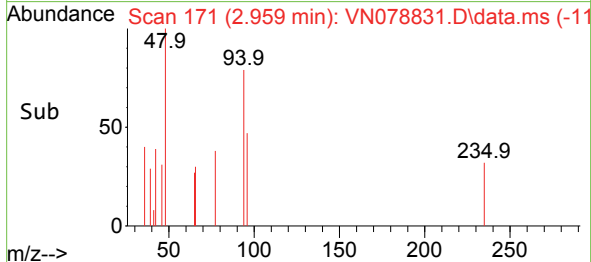
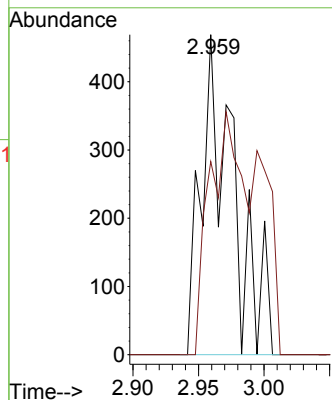
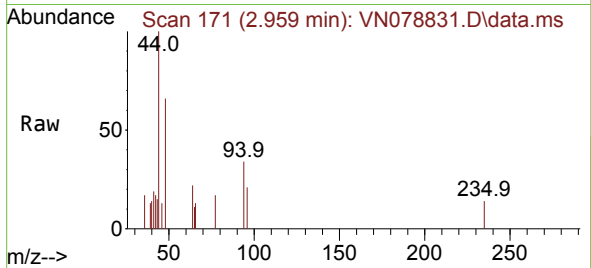




#5
Bromomethane
Concen: 0.387 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

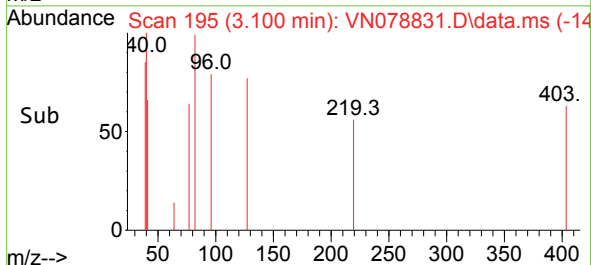
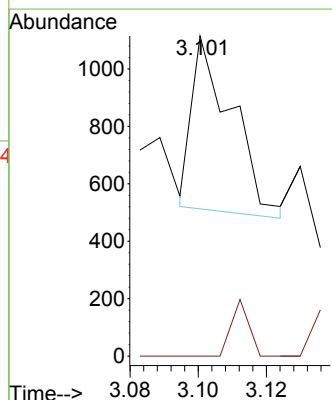
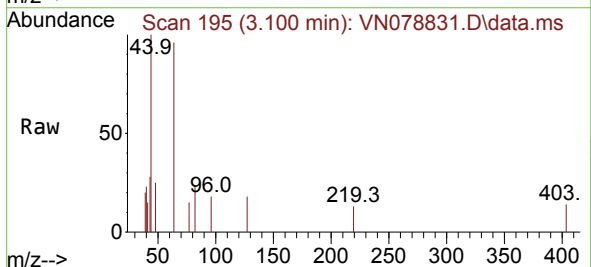
Instrument :
MSVOA_N
ClientSampleId :

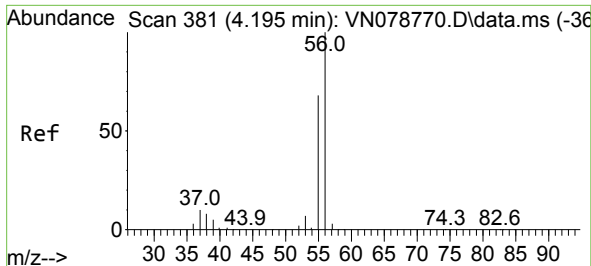
Tgt Ion: 94 Resp: 799
Ion Ratio Lower Upper
94 100
96 60.3 73.1 109.7#



#6
Chloroethane
Concen: 0.254 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 64 Resp: 488
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

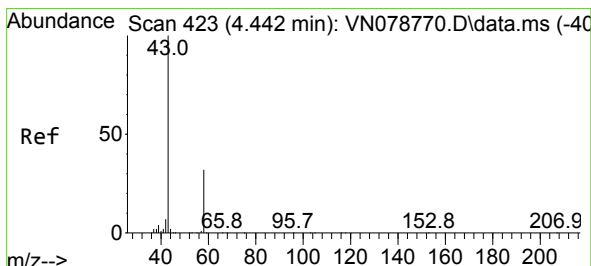
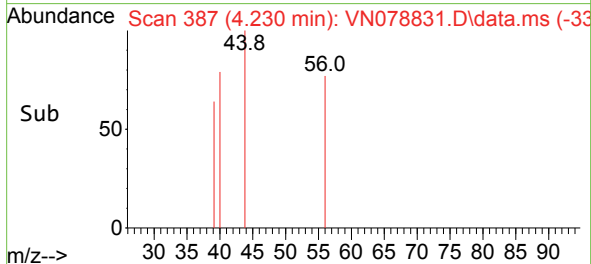
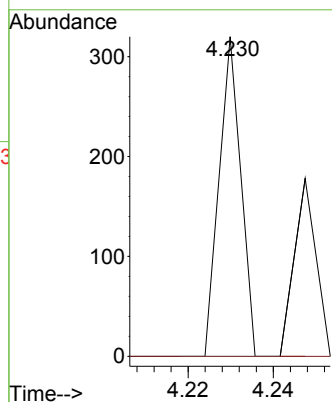
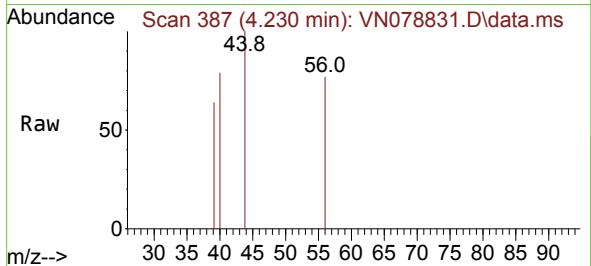




#13
Acrolein
Concen: 0.283 ug/l
RT: 4.230 min Scan# 381
Delta R.T. 0.035 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

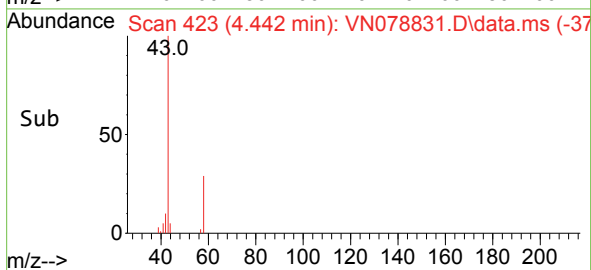
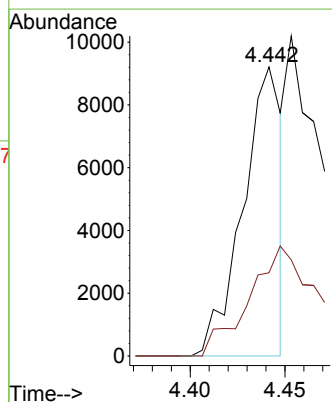
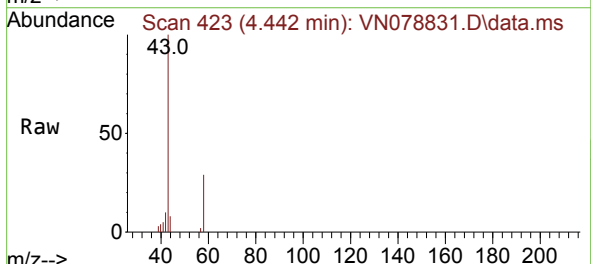
Instrument :
MSVOA_N
ClientSampleId :

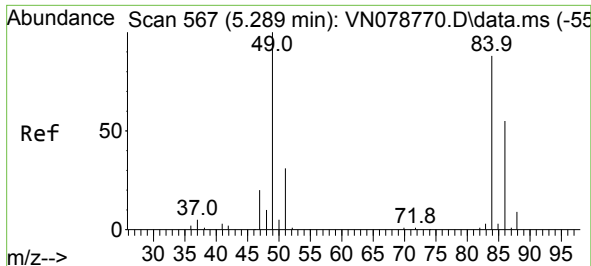
Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 12.635 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

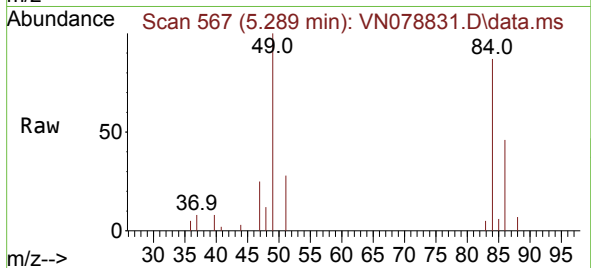
Tgt Ion: 43 Resp: 13083
Ion Ratio Lower Upper
43 100
58 28.8 28.0 42.0





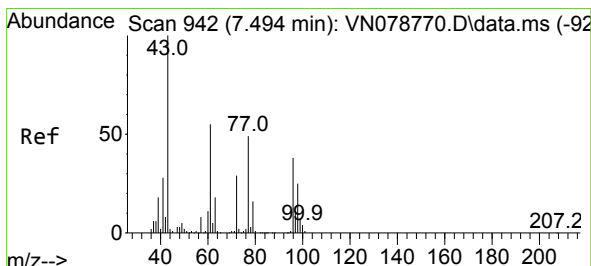
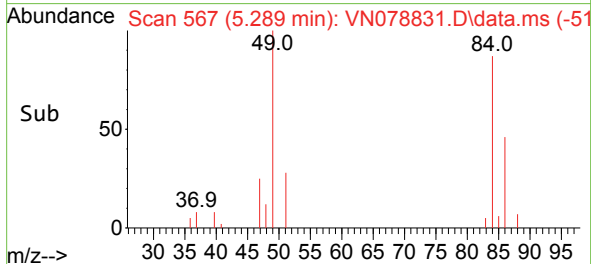
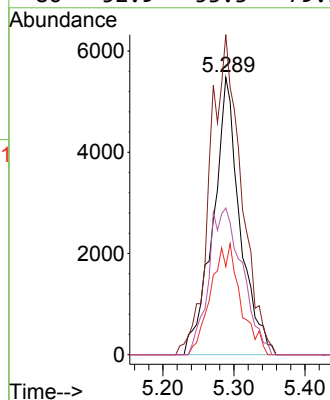
#20
Methylene Chloride
Concen: 5.608 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 14383

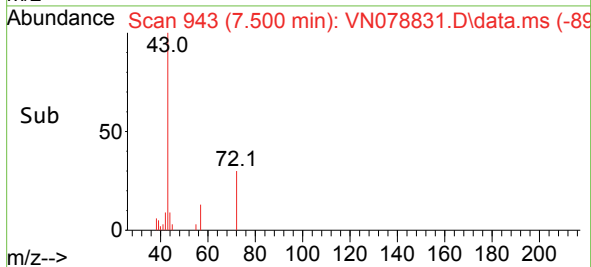
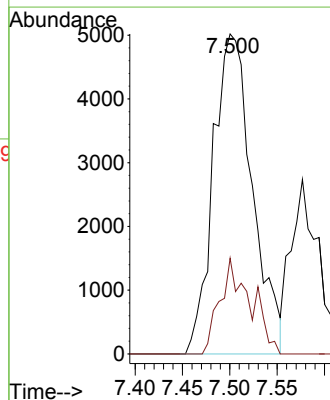
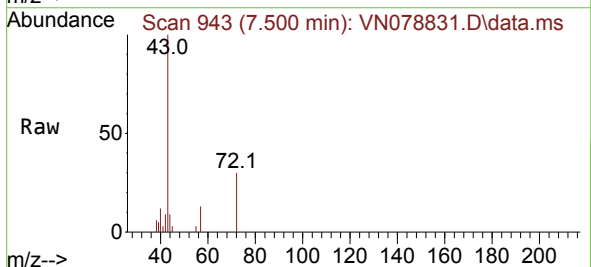
Ion	Ratio	Lower	Upper
84	100		
49	115.4	79.7	119.5
51	31.8	25.2	37.8
86	52.9	53.3	79.9#

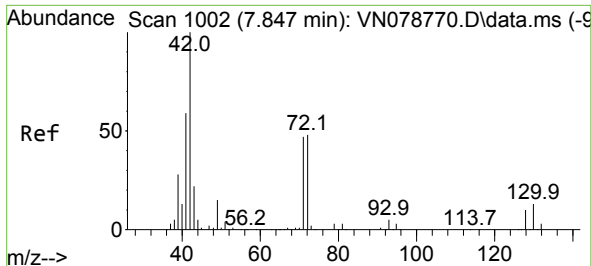


#25
2-Butanone
Concen: 8.256 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 43 Resp: 14477

Ion	Ratio	Lower	Upper
43	100		
72	29.9	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.024 min

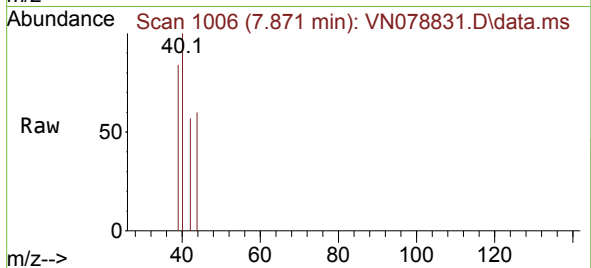
Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

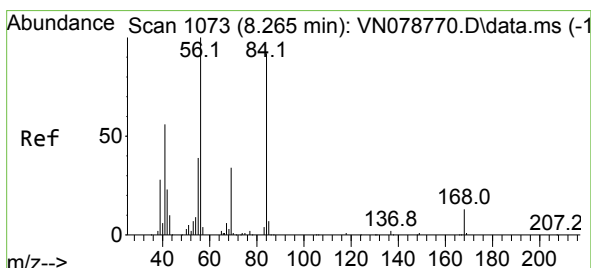
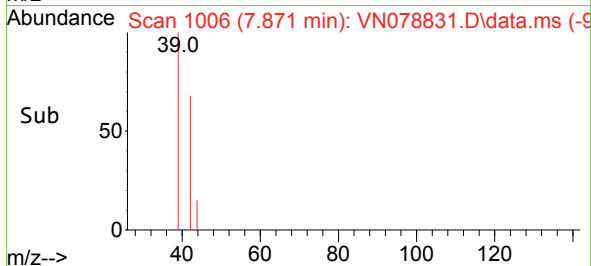
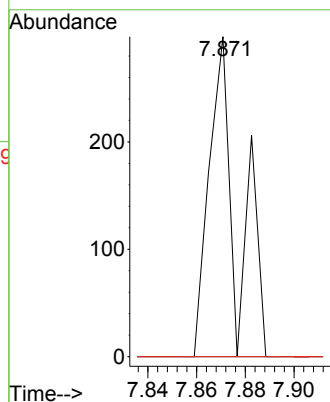
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	239
Ion Ratio	Lower	Upper	
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.209 ug/l

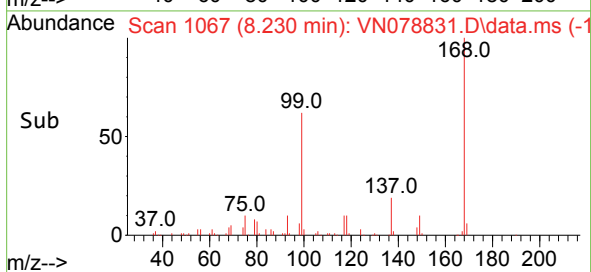
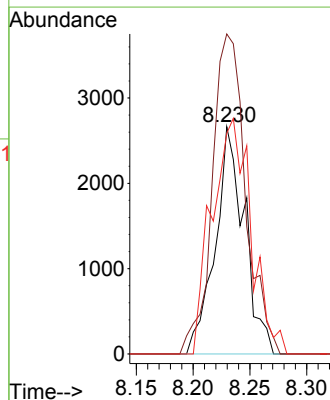
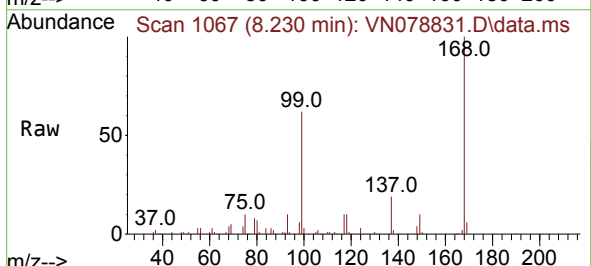
RT: 8.230 min Scan# 1067

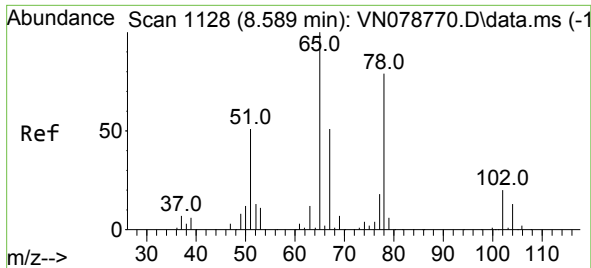
Delta R.T. -0.035 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Tgt Ion:	56	Resp:	4780
Ion Ratio	Lower	Upper	
56	100		
69	140.9	26.8	40.2#
84	97.1	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 53.836 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Instrument :

MSVOA_N

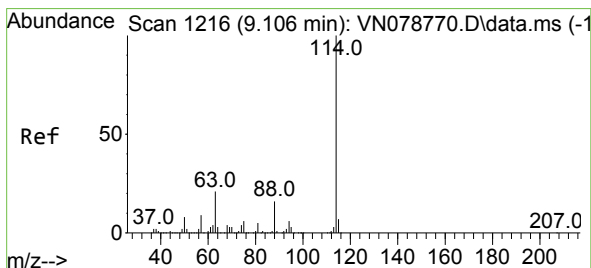
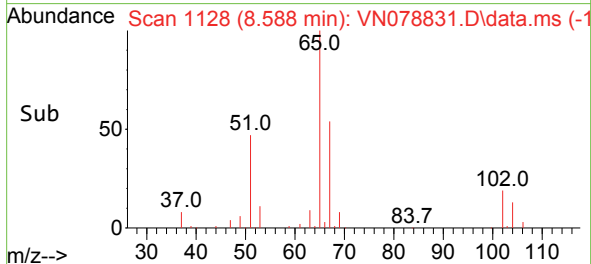
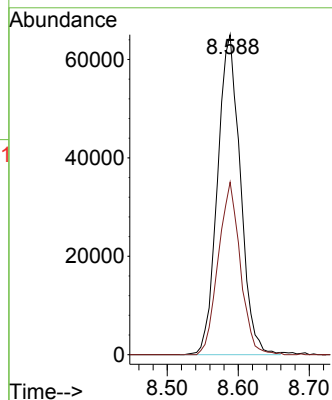
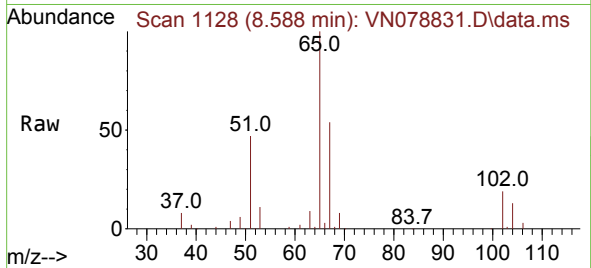
ClientSampleId :

Tgt Ion: 65 Resp: 144888

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

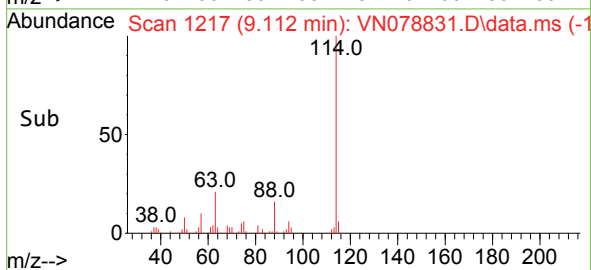
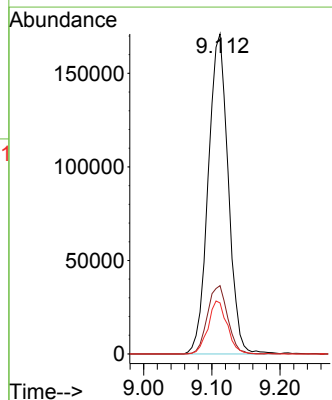
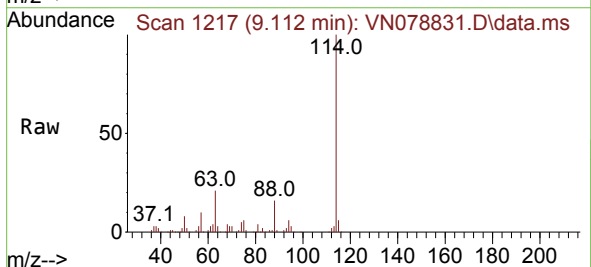
Tgt Ion: 114 Resp: 348584

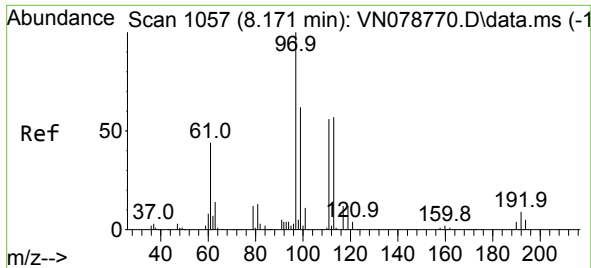
Ion Ratio Lower Upper

114 100

63 21.3 0.0 36.4

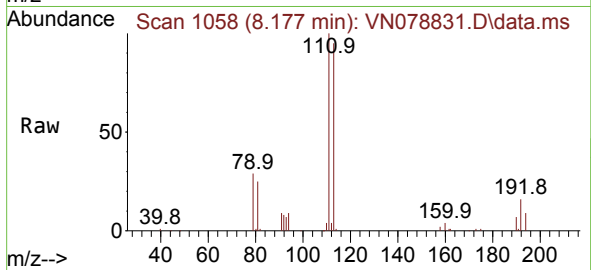
88 16.0 0.0 30.6



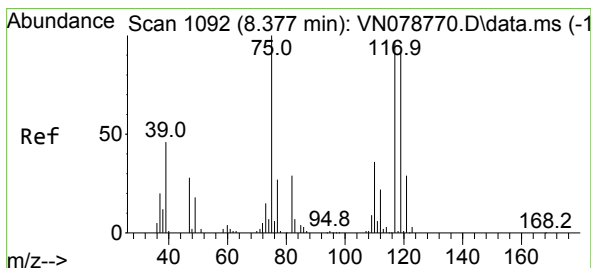
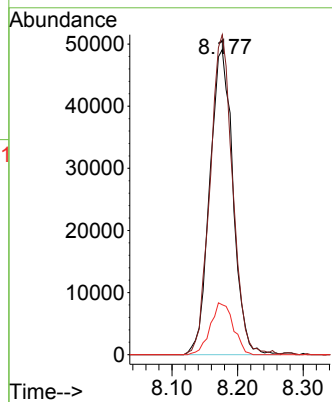
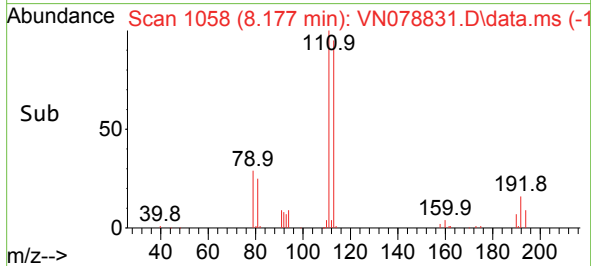


#35
Dibromofluoromethane
Concen: 51.312 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Instrument :
MSVOA_N
ClientSampleId :

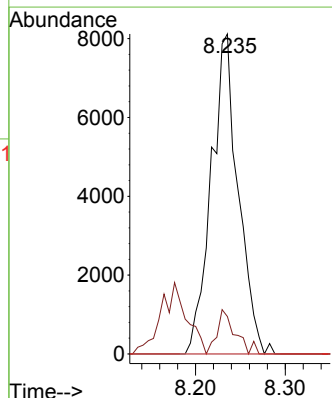
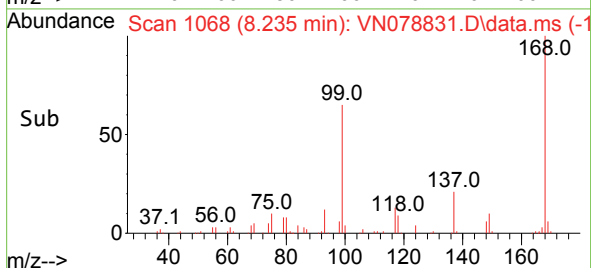
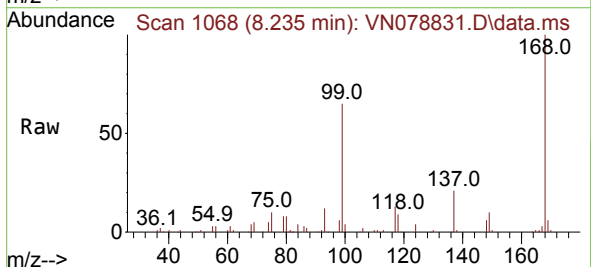


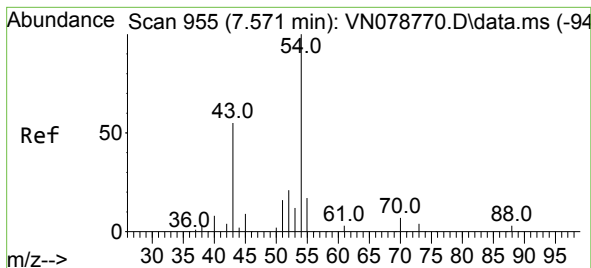
Tgt Ion:113 Resp: 120790
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 16.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.651 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 75 Resp: 16986
Ion Ratio Lower Upper
75 100
110 9.3 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.539 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

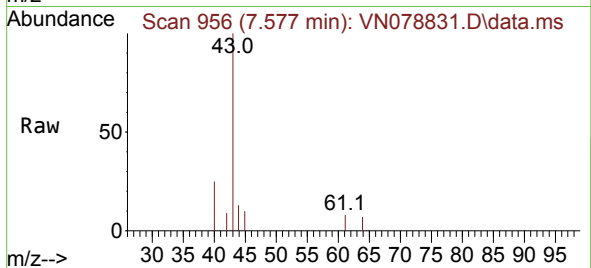
Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

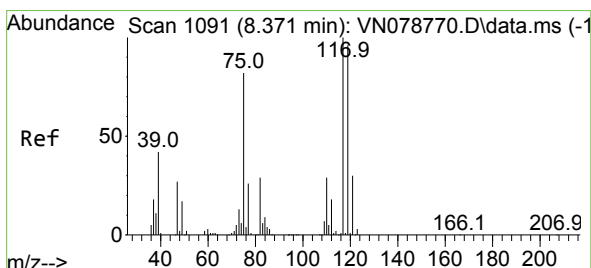
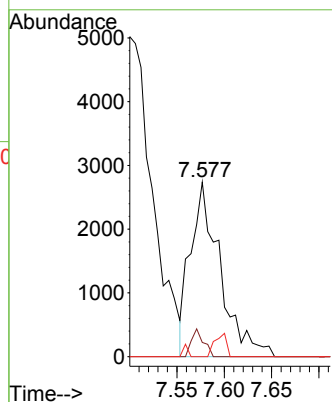
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	5974
Ion Ratio	Lower	Upper	
43	100		
61	6.5	13.2	19.8#
70	1.2	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.452 ug/l

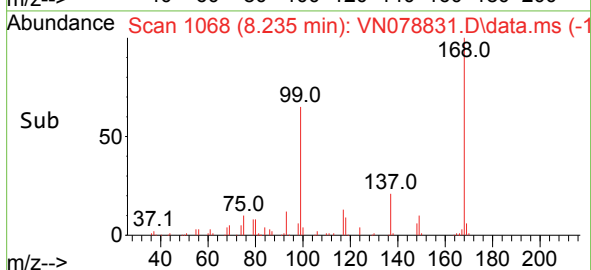
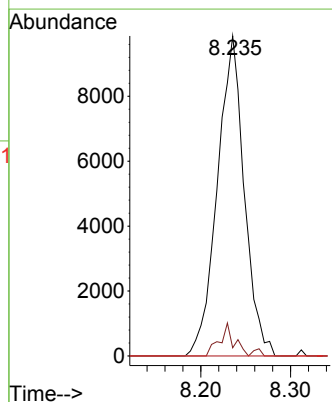
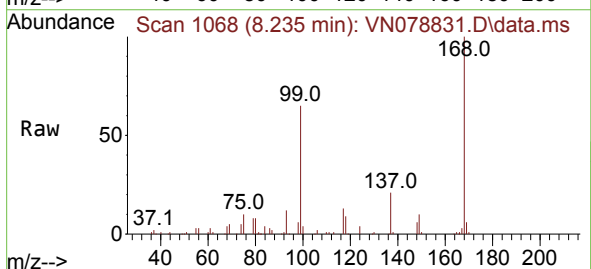
RT: 8.235 min Scan# 1068

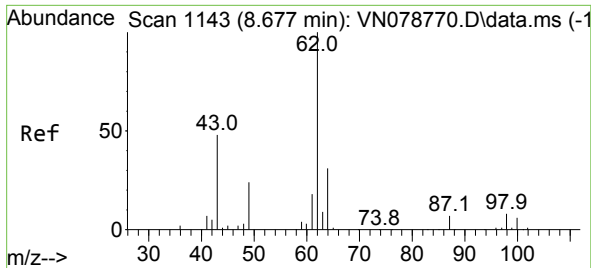
Delta R.T. -0.135 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Tgt Ion:	117	Resp:	20525
Ion Ratio	Lower	Upper	
117	100		
119	2.6	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.227 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Instrument :

MSVOA_N

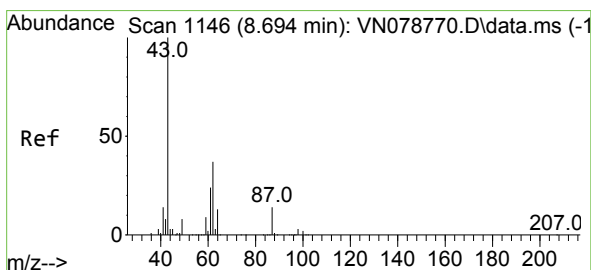
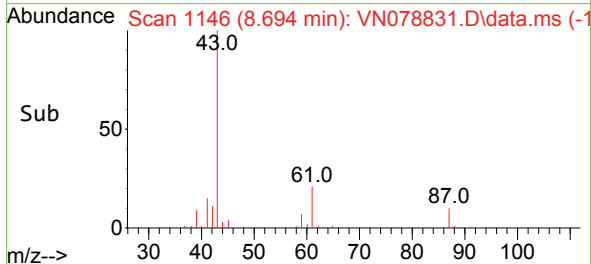
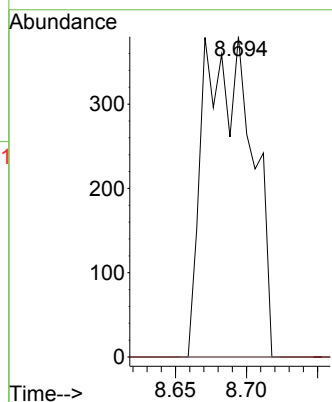
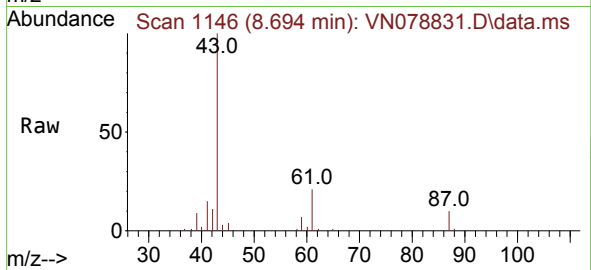
ClientSampleId :

Tgt Ion: 62 Resp: 902

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 19.260 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

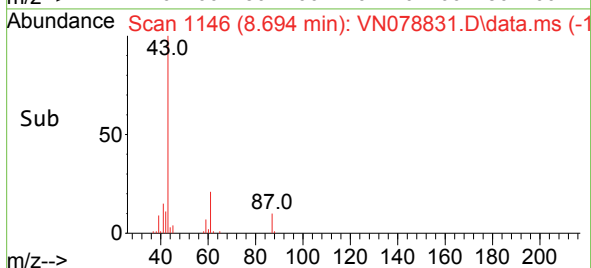
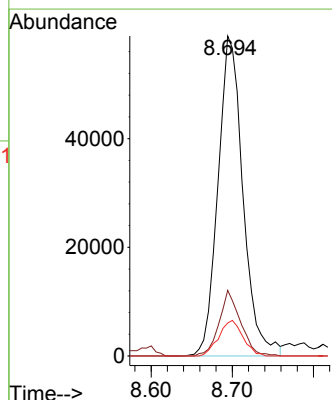
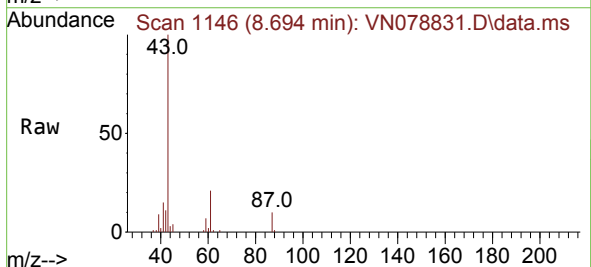
Tgt Ion: 43 Resp: 126087

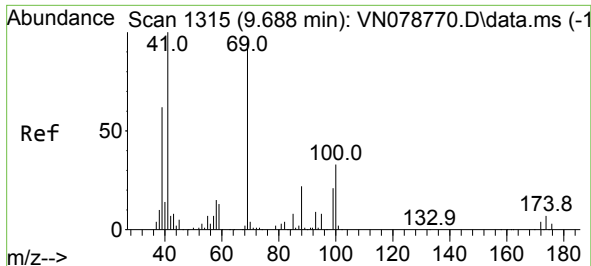
Ion Ratio Lower Upper

43 100

61 17.5 24.7 37.1#

87 10.7 14.6 21.8#

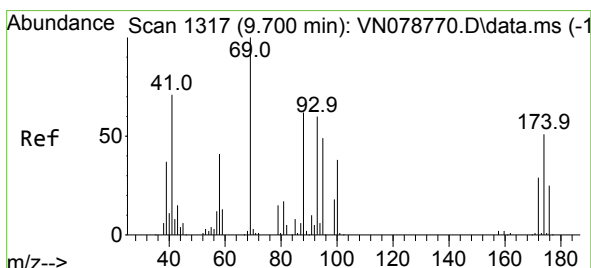
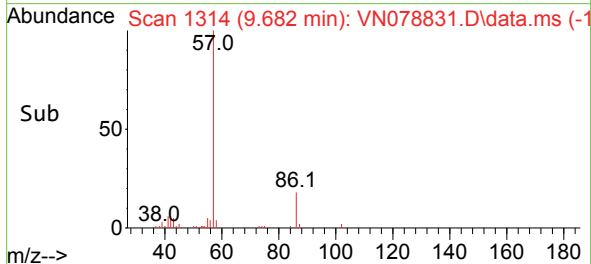
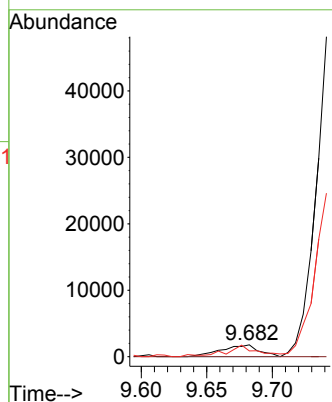
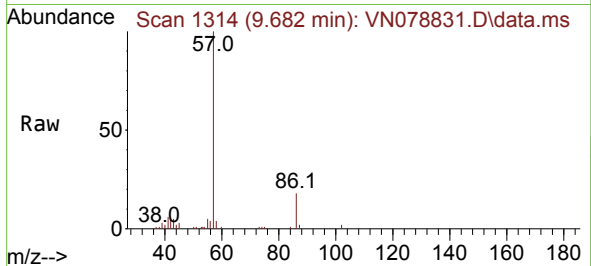




#48
Methyl methacrylate
Concen: 1.180 ug/l
RT: 9.682 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

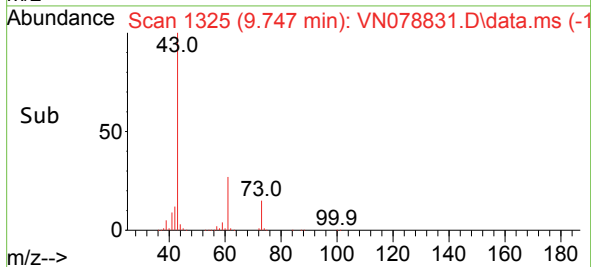
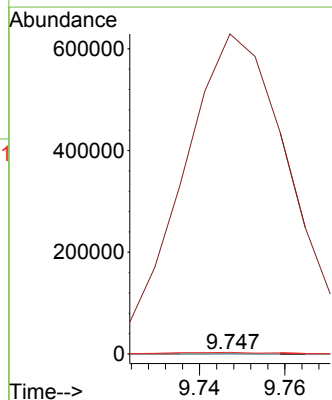
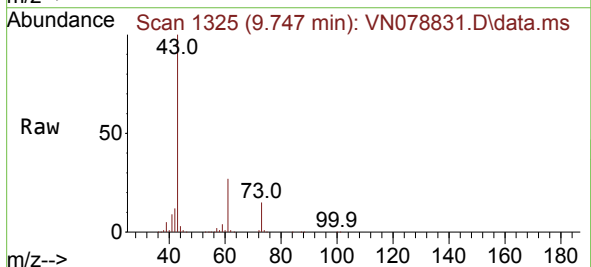
Instrument :
MSVOA_N
ClientSampleId :

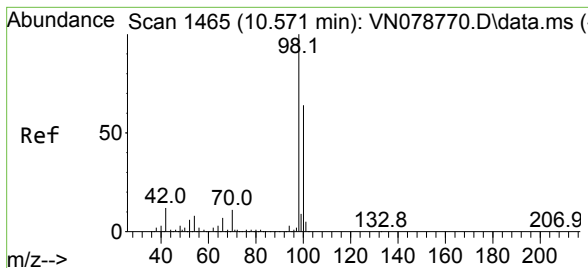
Tgt Ion: 41 Resp: 3568
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 81.9 54.6 81.8#



#49
1,4-Dioxane
Concen: 1.608 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 1437779.7 17.0 25.6#
58 7455.7 47.0 70.4#





#50

Toluene-d8

Concen: 52.374 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Instrument :

MSVOA_N

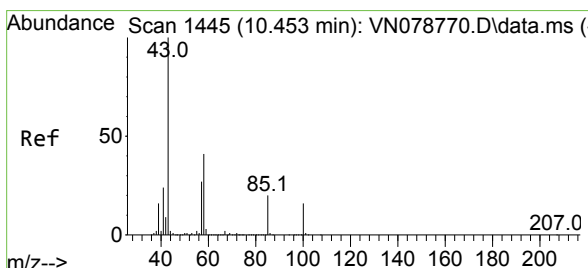
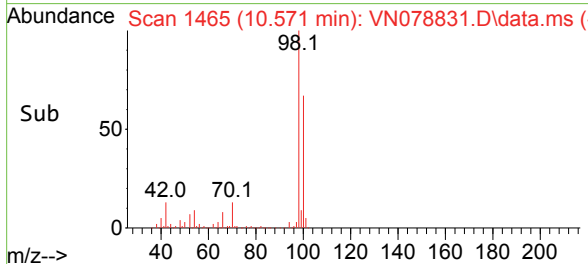
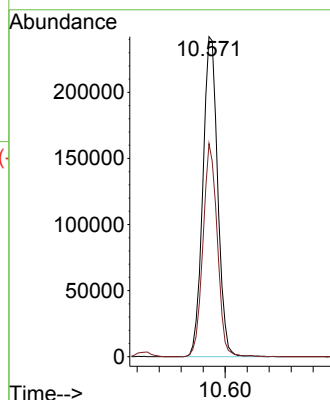
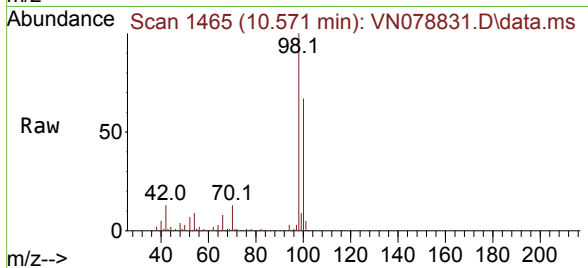
ClientSampleId :

Tgt Ion: 98 Resp: 453709

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 13.399 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN078831.D

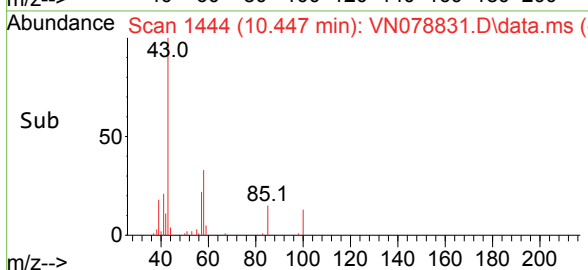
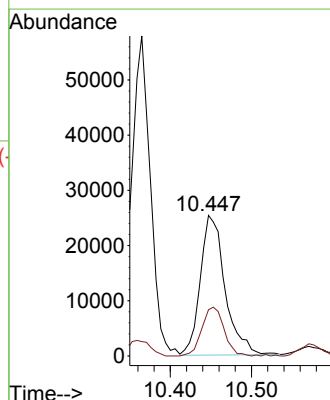
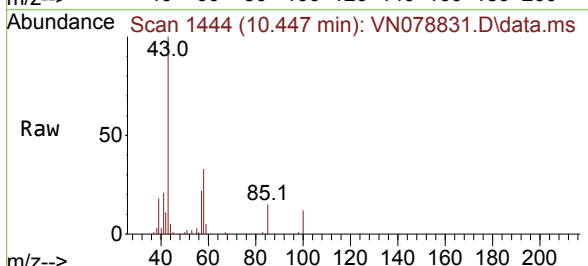
Acq: 10 Aug 2023 12:43

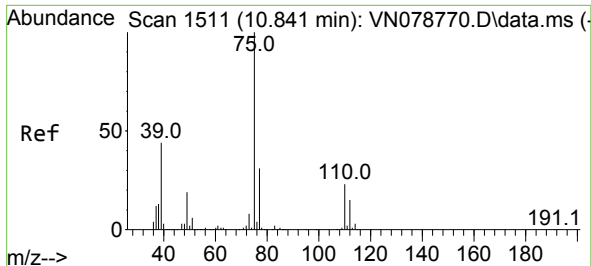
Tgt Ion: 43 Resp: 53728

Ion Ratio Lower Upper

43 100

58 31.2 36.6 54.8#

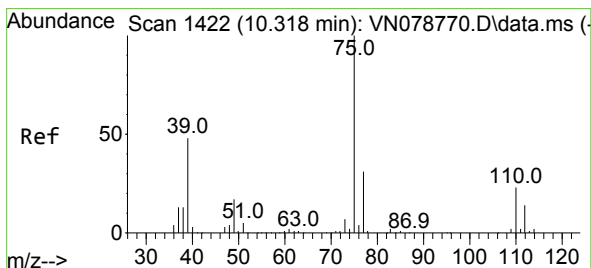
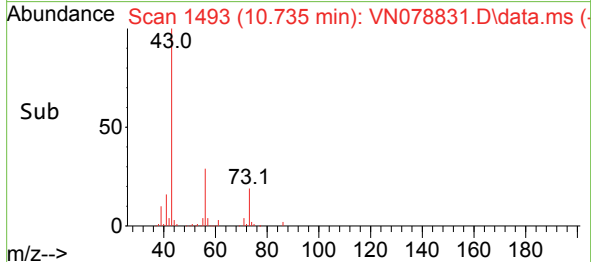
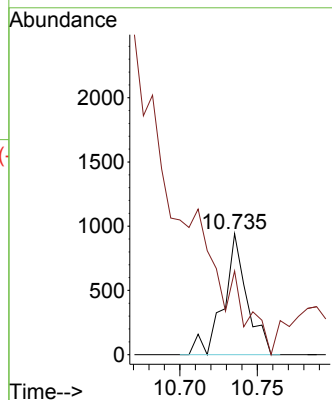
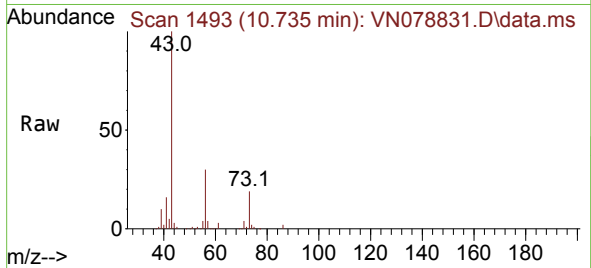




#53
 t-1,3-Dichloropropene
 Concen: 0.245 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.106 min
 Lab File: VN078831.D
 Acq: 10 Aug 2023 12:43

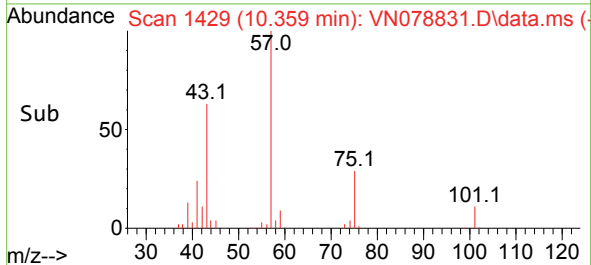
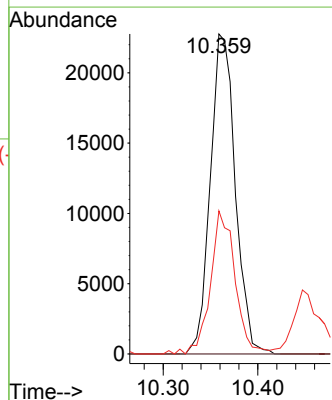
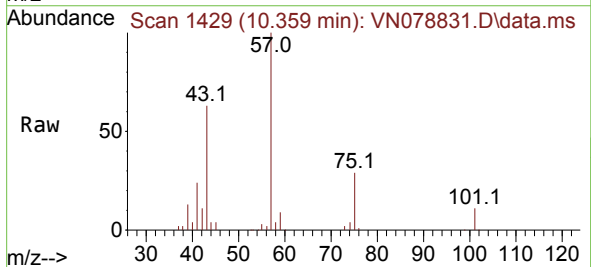
Instrument :
 MSVOA_N
 ClientSampleId :

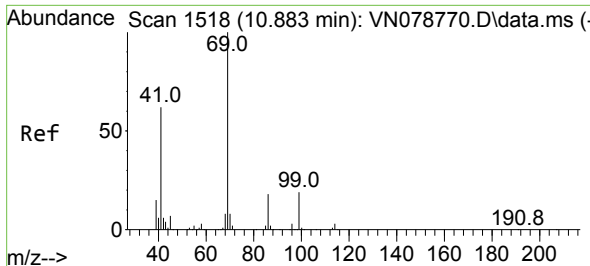
Tgt Ion: 75 Resp: 981
 Ion Ratio Lower Upper
 75 100
 77 41.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 9.576 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN078831.D
 Acq: 10 Aug 2023 12:43

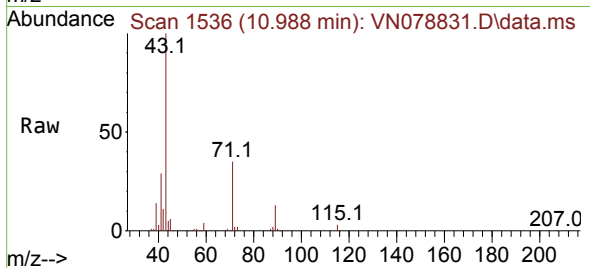
Tgt Ion: 75 Resp: 41701
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 42.9 31.6 47.4



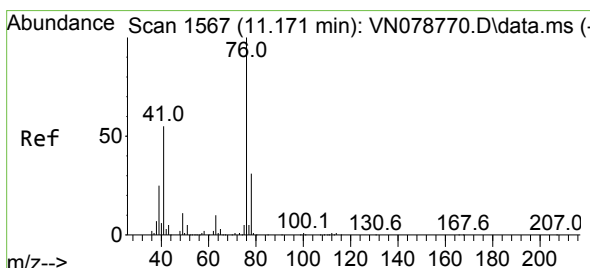
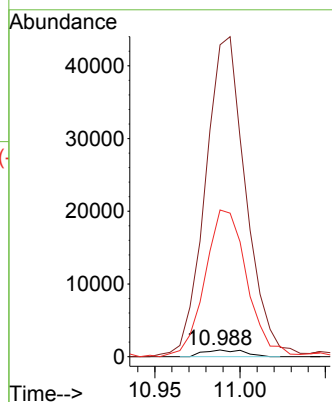
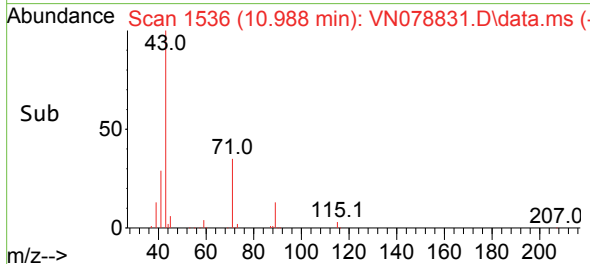


#56
Ethyl methacrylate
Concen: 0.397 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Instrument :
MSVOA_N
ClientSampleId :

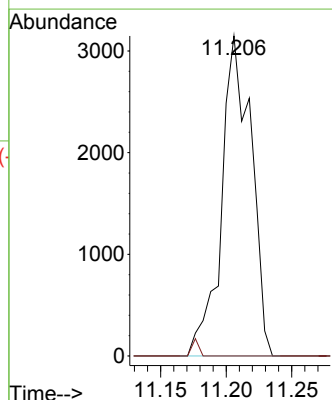
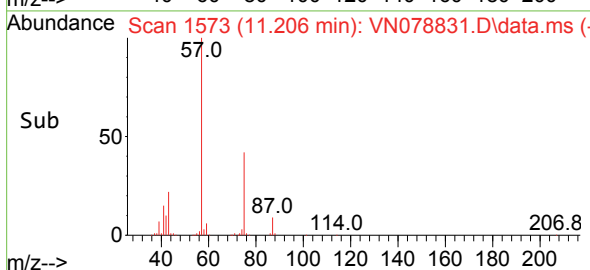
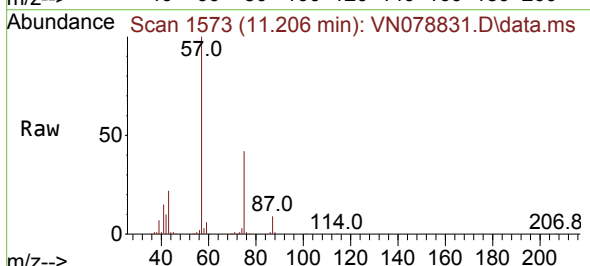


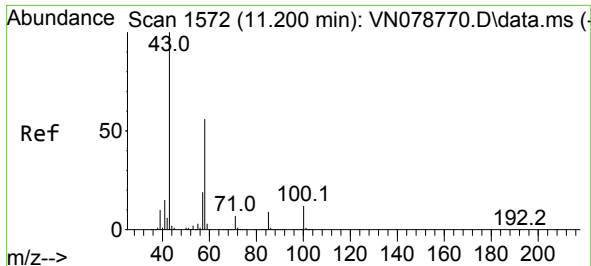
Tgt Ion: 69 Resp: 1543
Ion Ratio Lower Upper
69 100
41 4720.4 39.6 59.4#
39 2244.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.065 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 76 Resp: 4967
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

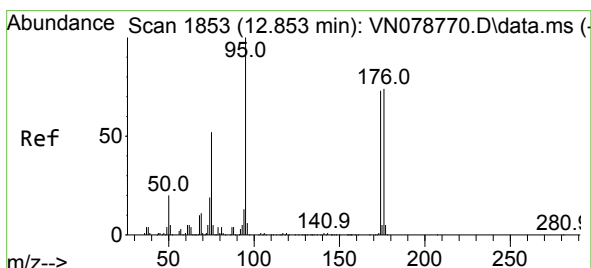
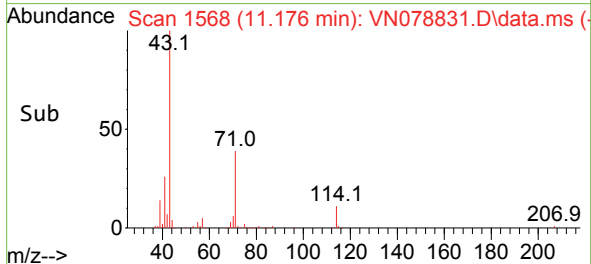
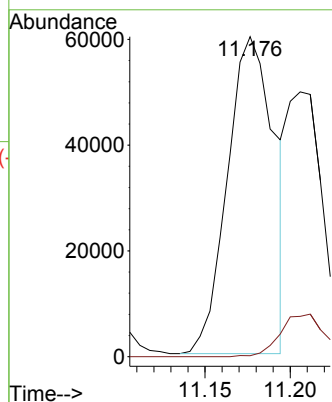
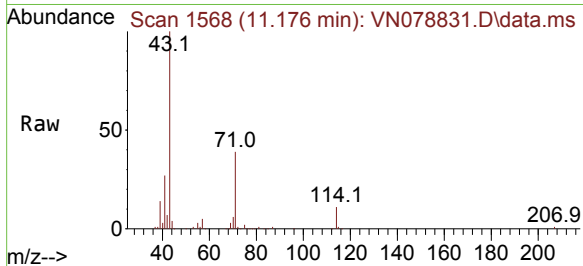




#59
2-Hexanone
Concen: 40.303 ug/l
RT: 11.176 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

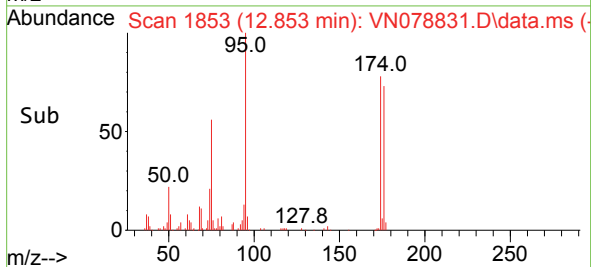
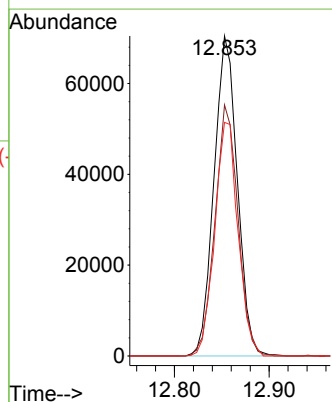
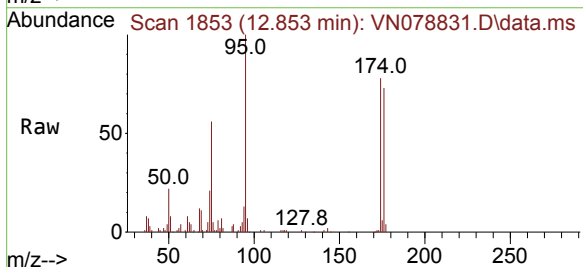
Instrument :
MSVOA_N
ClientSampleId :

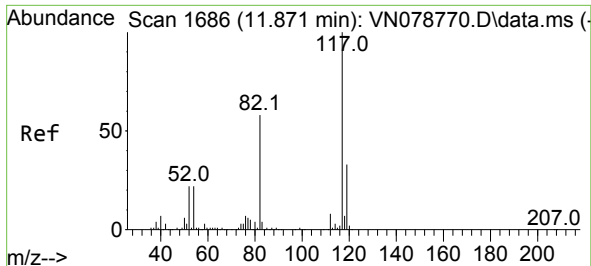
Tgt Ion: 43 Resp: 114435
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 46.477 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

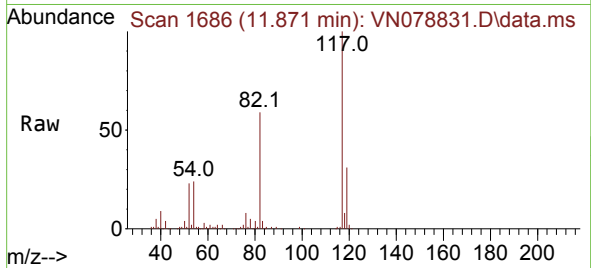
Tgt Ion: 95 Resp: 120326
Ion Ratio Lower Upper
95 100
174 77.8 0.0 143.8
176 73.1 0.0 135.8



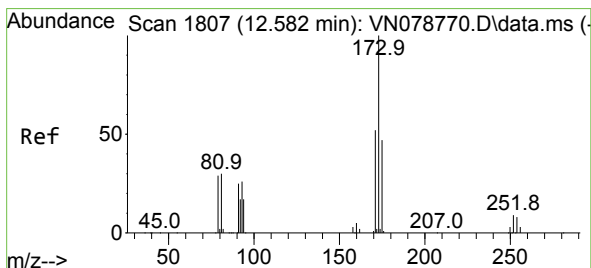
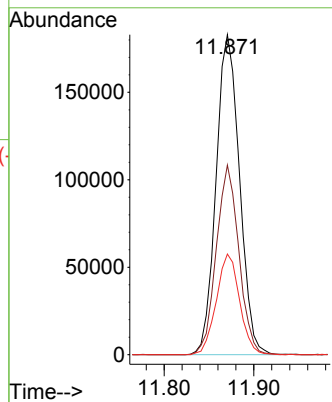
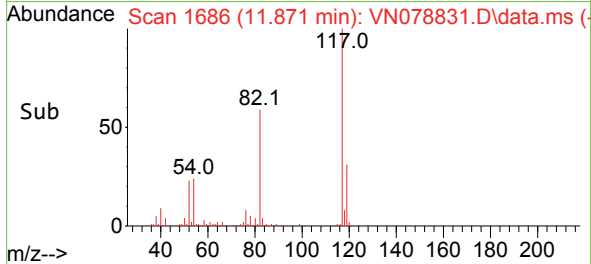


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Instrument :
MSVOA_N
ClientSampleId :

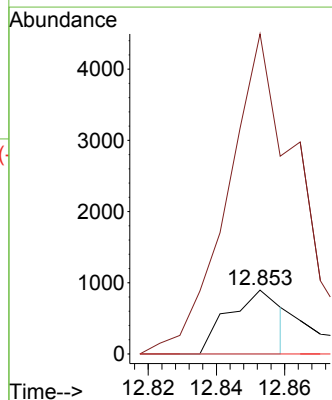
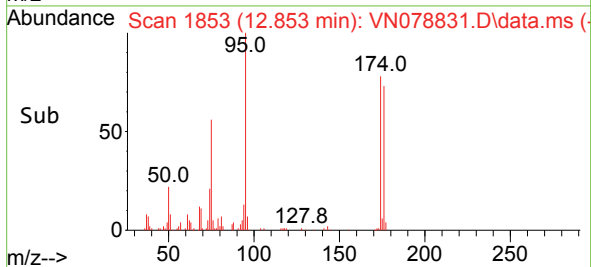
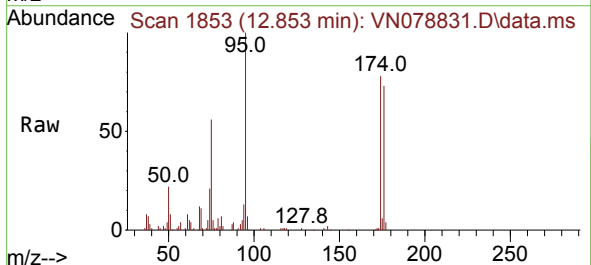


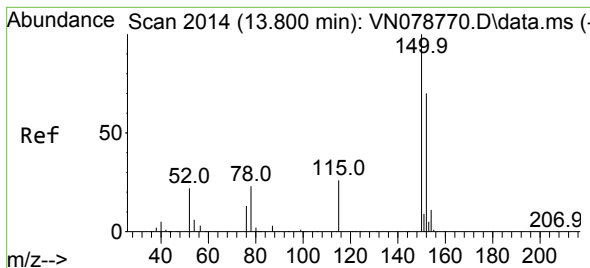
Tgt Ion:117 Resp: 331725
Ion Ratio Lower Upper
117 100
82 59.3 44.0 66.0
119 31.4 25.6 38.4



#71
Bromoform
Concen: 0.470 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion:173 Resp: 959
Ion Ratio Lower Upper
173 100
175 494.5 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. -0.000 min

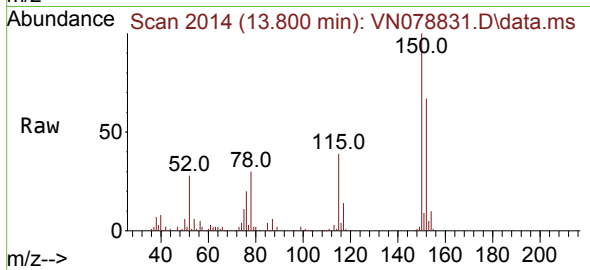
Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Instrument :

MSVOA_N

ClientSampleId :



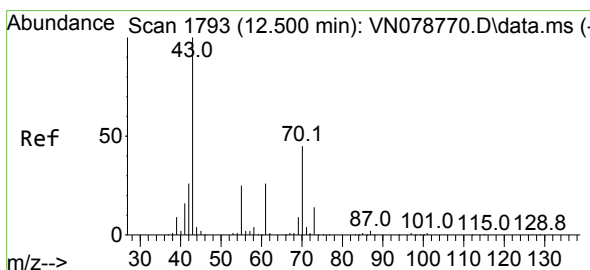
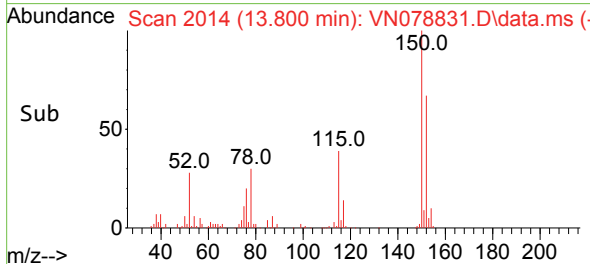
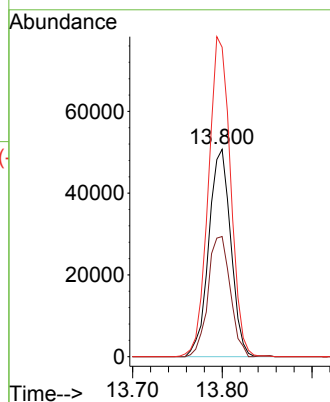
Tgt Ion:152 Resp: 86555

Ion Ratio Lower Upper

152 100

115 58.5 32.3 96.8

150 155.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.452 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.006 min

Lab File: VN078831.D

Acq: 10 Aug 2023 12:43

Tgt Ion: 43 Resp: 1745

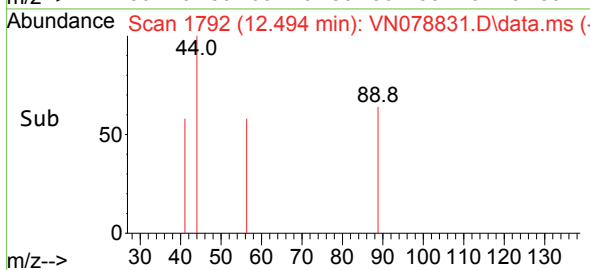
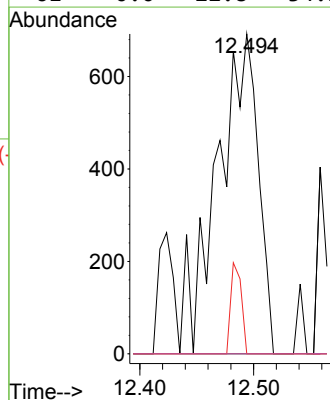
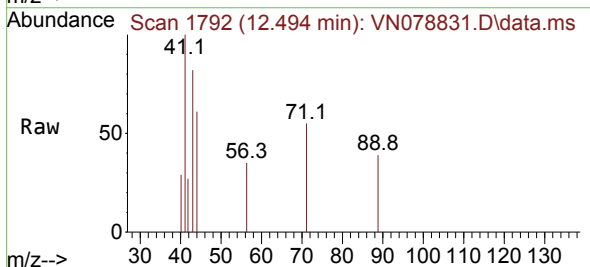
Ion Ratio Lower Upper

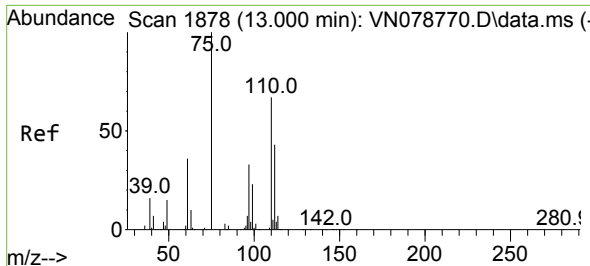
43 100

70 0.0 43.4 65.2#

55 7.3 21.4 32.0#

61 0.0 22.8 34.2#

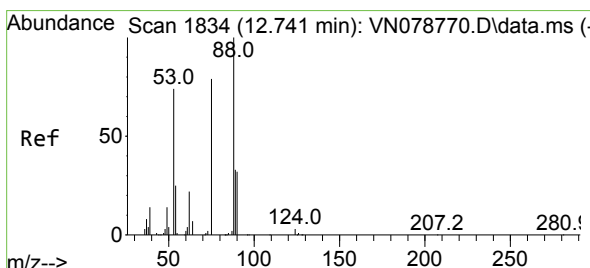
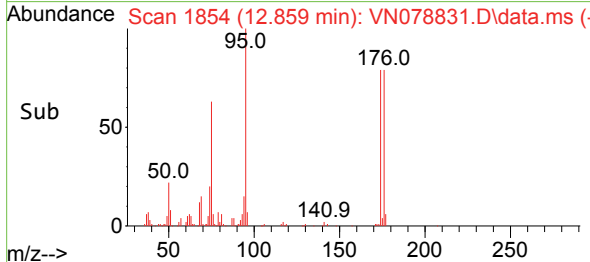
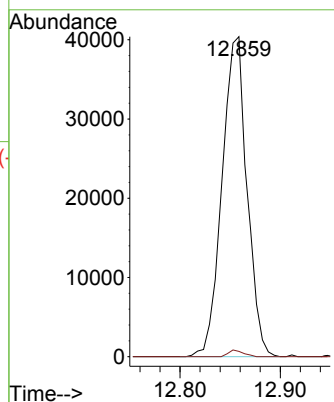
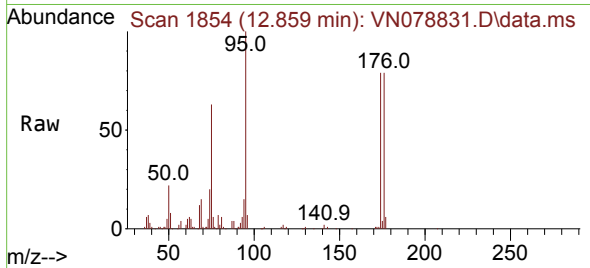




#76
1,2,3-Trichloropropane
Concen: 29.859 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 69875
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.122 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.117 min
Lab File: VN078831.D
Acq: 10 Aug 2023 12:43

Tgt Ion: 75 Resp: 69875
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

