

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078331.D
 Acq On : 21 Jun 2023 18:47
 Operator : JC\MD
 Sample : 03337-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 04:53:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

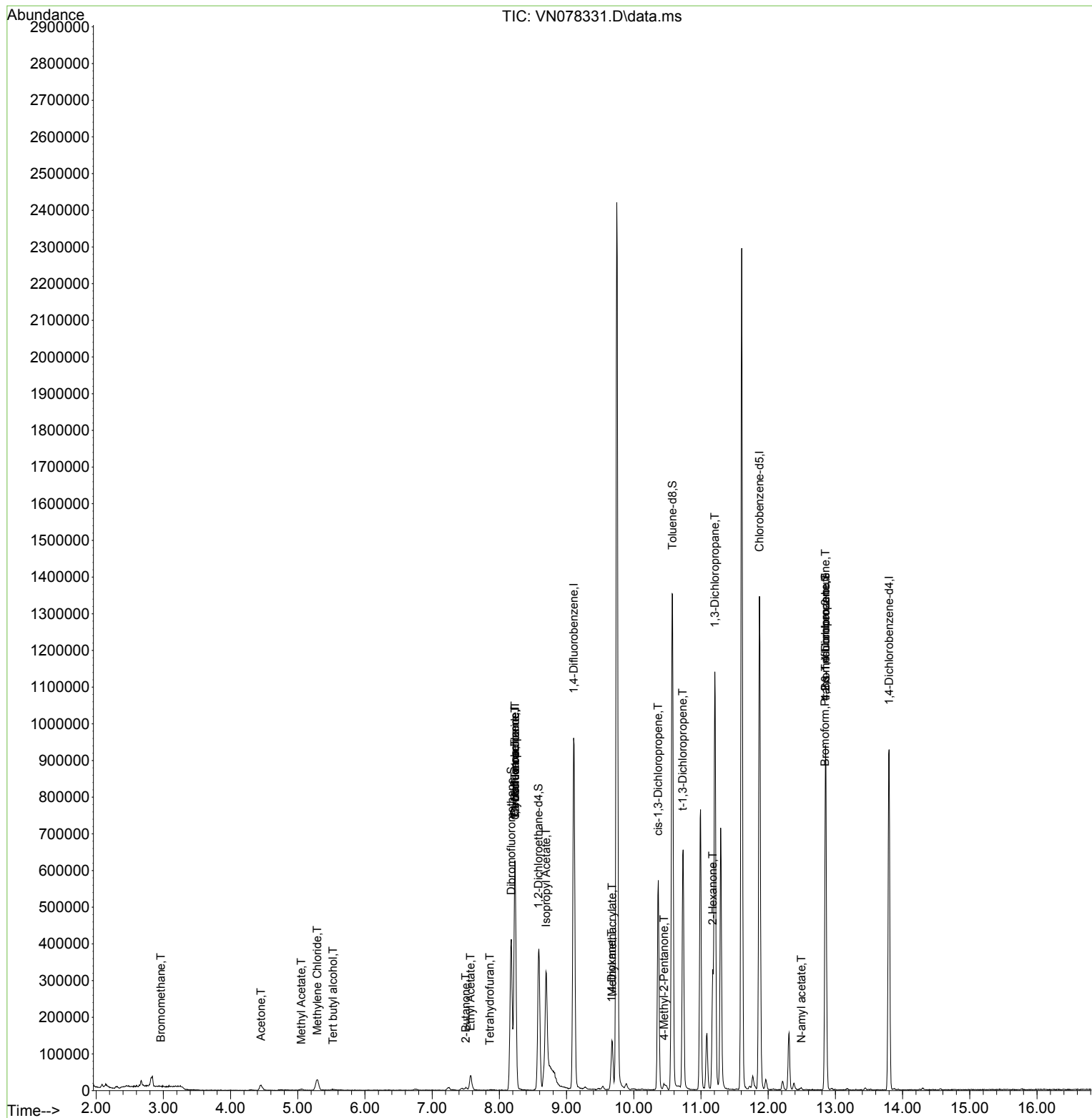
Internal Standards						
1) Pentafluorobenzene	8.230	168	441597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	864346	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	805759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	259352	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	326220	55.406	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.820%	
35) Dibromofluoromethane	8.177	113	295283	54.030	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.060%	
50) Toluene-d8	10.576	98	1015260	48.188	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.380%	
62) 4-Bromofluorobenzene	12.853	95	330238	50.420	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1175	Below Cal		89
5) Bromomethane	2.965	94	1227	0.248	ug/l #	33
11) Tert butyl alcohol	5.524	59	2632	3.237	ug/l #	72
16) Acetone	4.453	43	25497	15.045	ug/l	93
18) Methyl Acetate	5.053	43	6188	0.793	ug/l #	83
20) Methylene Chloride	5.289	84	24955	4.456	ug/l #	91
25) 2-Butanone	7.500	43	11872	4.555	ug/l #	85
29) Tetrahydrofuran	7.859	42	1005	0.577	ug/l #	32
31) Cyclohexane	8.230	56	10800	1.430	ug/l #	50
36) 1,1-Dichloropropene	8.235	75	38310	4.887	ug/l #	48
37) Ethyl Acetate	7.571	43	57911	9.457	ug/l	97
38) Carbon Tetrachloride	8.235	117	50086	6.051	ug/l #	16
43) Isopropyl Acetate	8.694	43	414120	35.359	ug/l #	75
48) Methyl methacrylate	9.677	41	8358	1.701	ug/l #	34
49) 1,4-Dioxane	9.671	88	70	0.678	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9478	1.537	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	2256	0.272	ug/l #	85
54) cis-1,3-Dichloropropene	10.365	75	104206	11.362	ug/l #	73
57) 1,3-Dichloropropane	11.206	76	11840	1.255	ug/l #	42
59) 2-Hexanone	11.176	43	242111	56.381	ug/l #	19
71) Bromoform	12.847	173	2975	0.726	ug/l #	1
74) N-amyl acetate	12.494	43	3582	0.444	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.965	83	85	Below Cal	#	75
76) 1,2,3-Trichloropropane	12.853	75	177131	28.890	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	177131	88.760	ug/l #	15

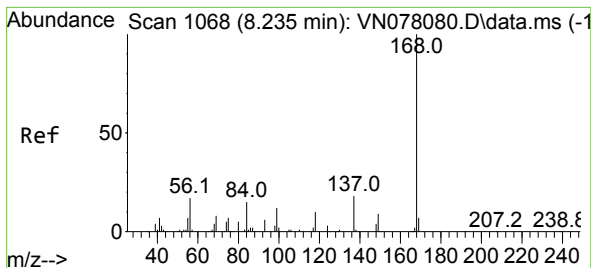
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

Instrument :

MSVOA_N

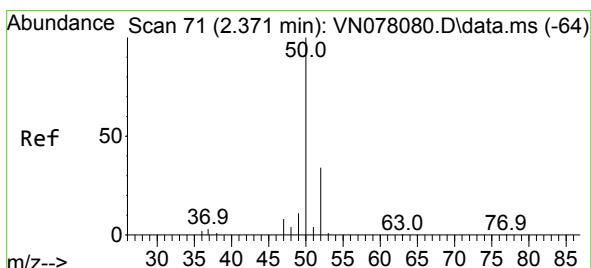
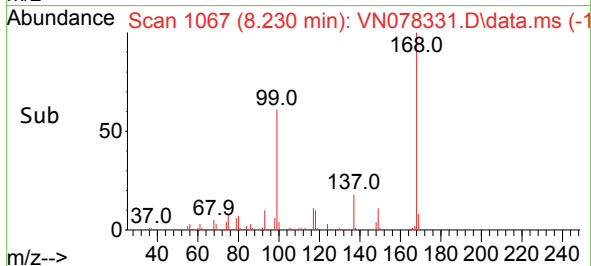
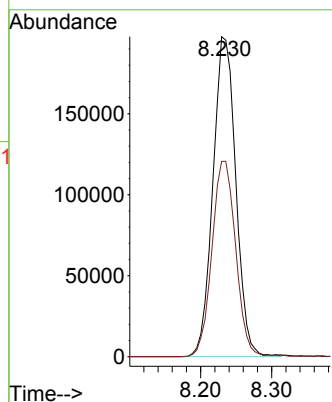
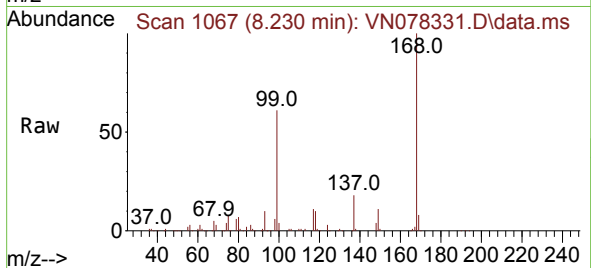
ClientSampleId :

Tgt Ion:168 Resp: 441597

Ion Ratio Lower Upper

168 100

99 61.0 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078331.D

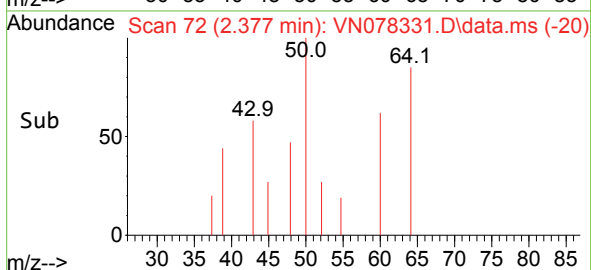
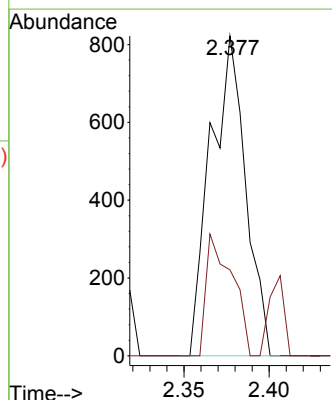
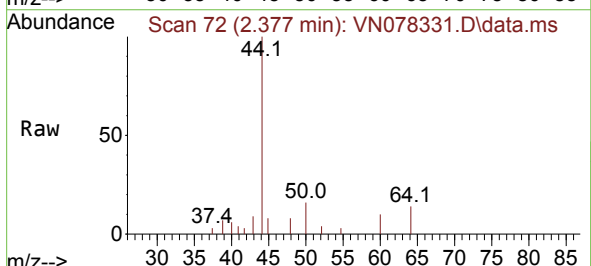
Acq: 21 Jun 2023 18:47

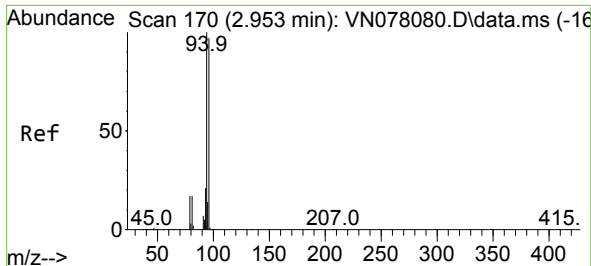
Tgt Ion: 50 Resp: 1175

Ion Ratio Lower Upper

50 100

52 26.9 26.5 39.7

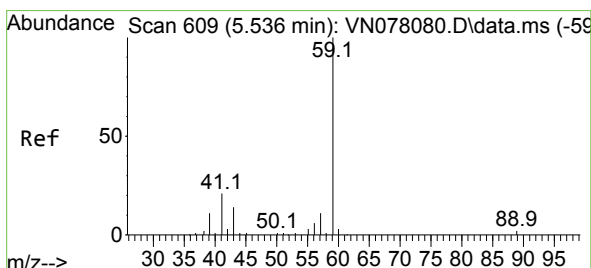
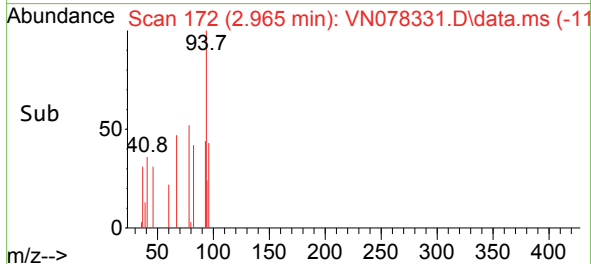
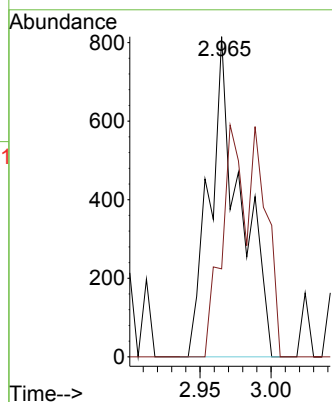
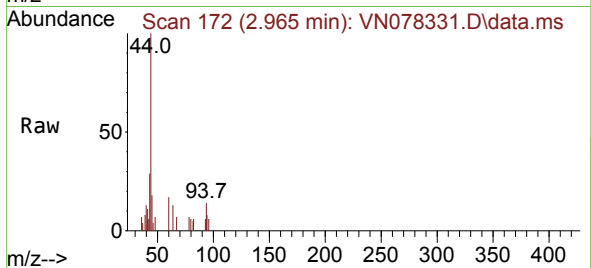




#5
Bromomethane
Concen: 0.248 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

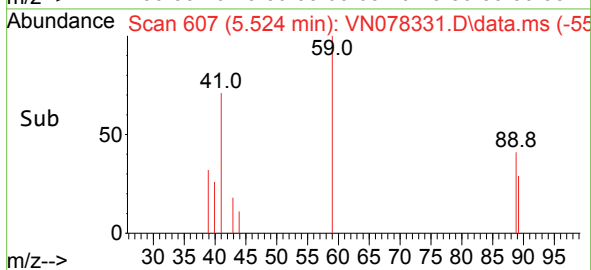
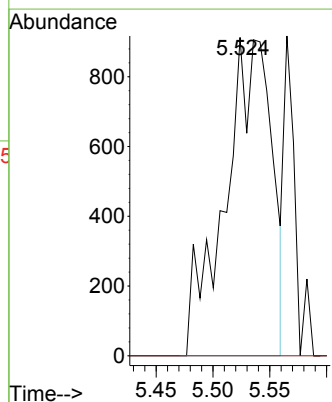
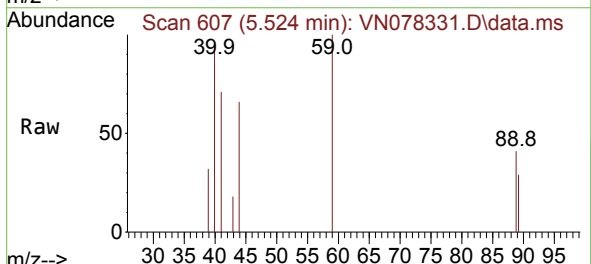
Instrument :
MSVOA_N
ClientSampleId :

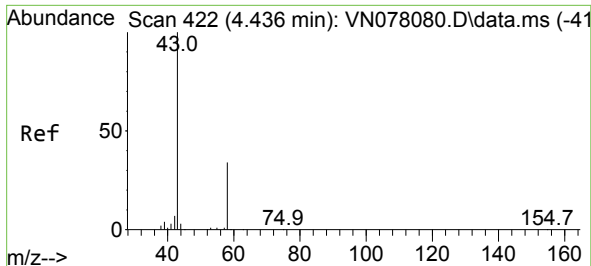
Tgt Ion: 94 Resp: 1227
Ion Ratio Lower Upper
94 100
96 27.5 73.1 109.7#



#11
Tert butyl alcohol
Concen: 3.237 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Tgt Ion: 59 Resp: 2632
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

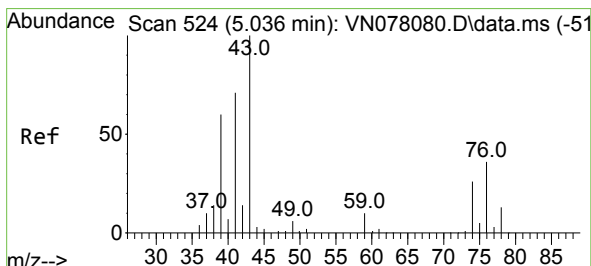
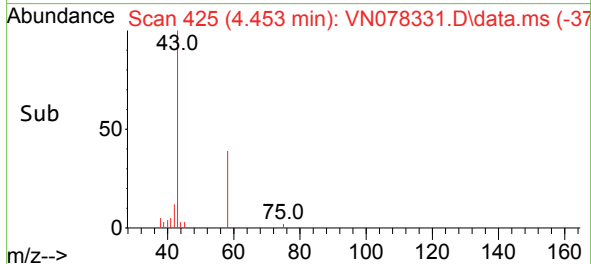
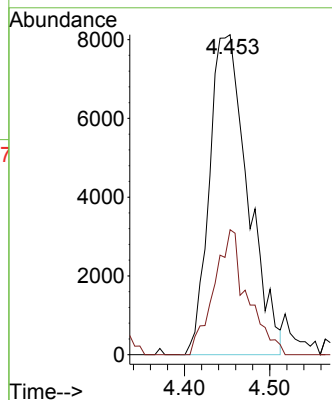
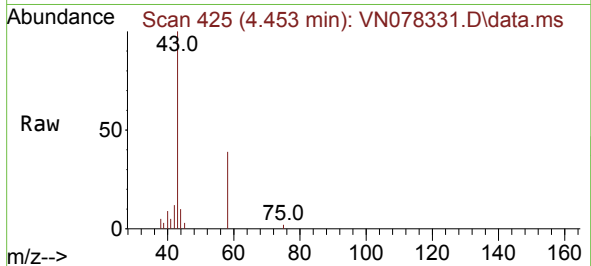




#16
Acetone
Concen: 15.045 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

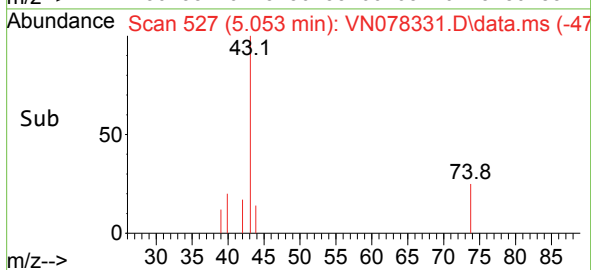
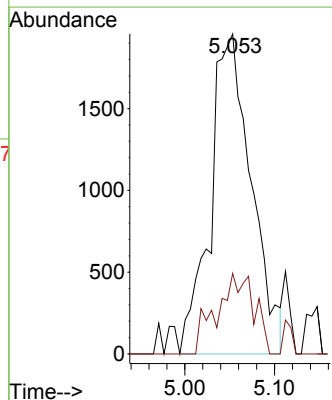
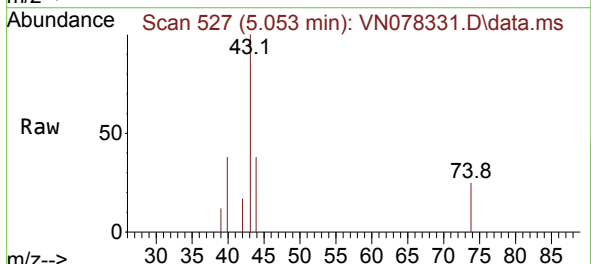
Instrument :
MSVOA_N
ClientSampleId :

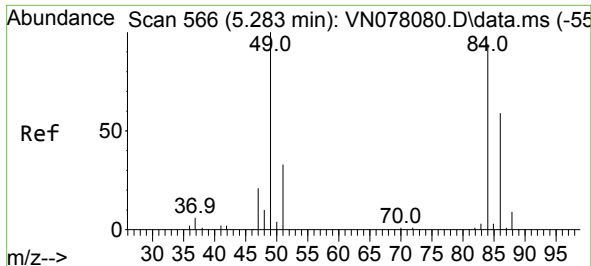
Tgt Ion: 43 Resp: 25497
Ion Ratio Lower Upper
43 100
58 39.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.793 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.018 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

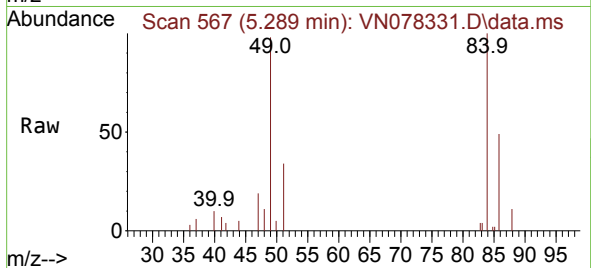
Tgt Ion: 43 Resp: 6188
Ion Ratio Lower Upper
43 100
74 23.0 26.2 39.4#



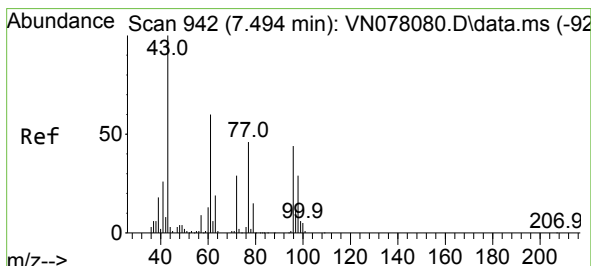
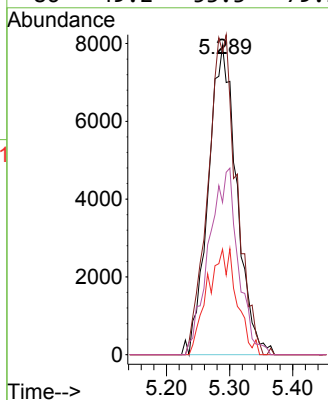
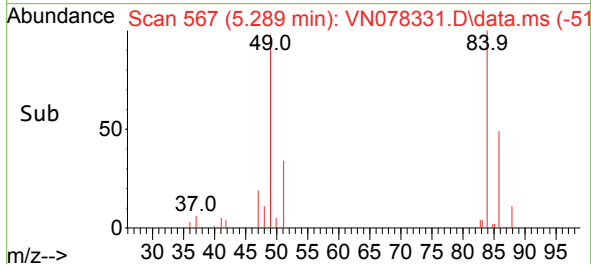


#20
Methylene Chloride
Concen: 4.456 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Instrument :
MSVOA_N
ClientSampleId :

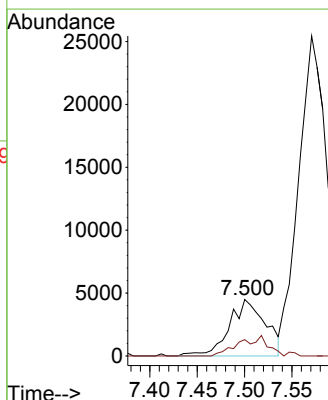
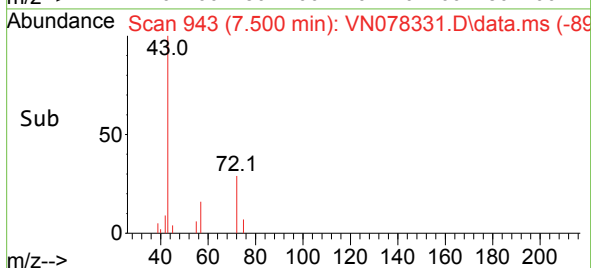
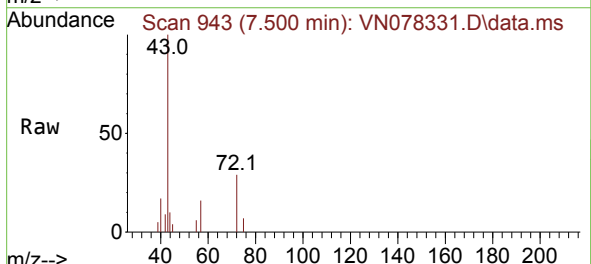


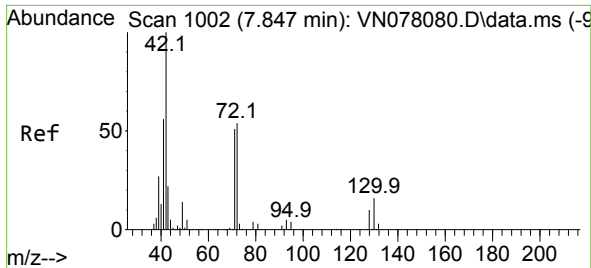
Tgt Ion:	84	Resp:	24955
Ion	Ratio	Lower	Upper
84	100		
49	97.9	79.7	119.5
51	34.1	25.2	37.8
86	49.2	53.3	79.9#



#25
2-Butanone
Concen: 4.555 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Tgt Ion:	43	Resp:	11872
Ion	Ratio	Lower	Upper
43	100		
72	28.9	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.577 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

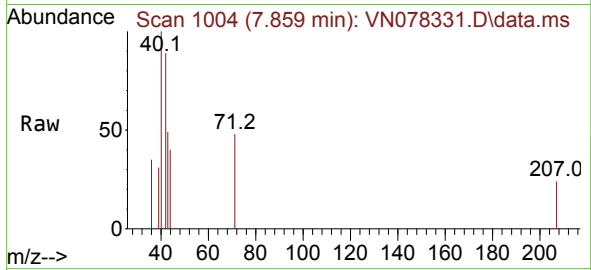
Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

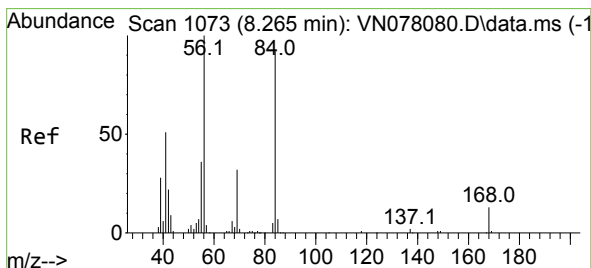
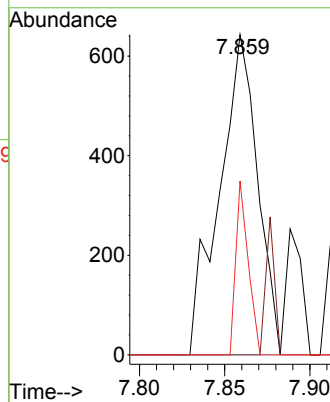
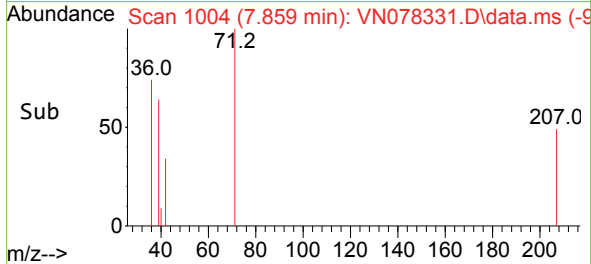
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1005
Ion Ratio	Lower	Upper	
42	100		
72	0.0	49.8	74.6#
71	17.6	47.4	71.2#



#31

Cyclohexane

Concen: 1.430 ug/l

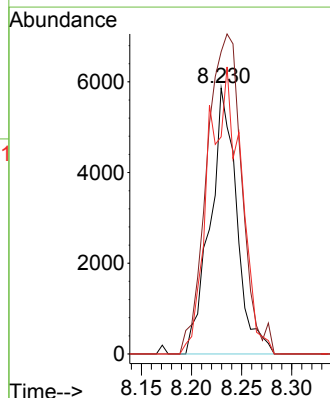
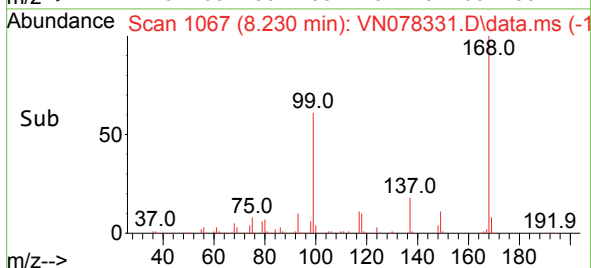
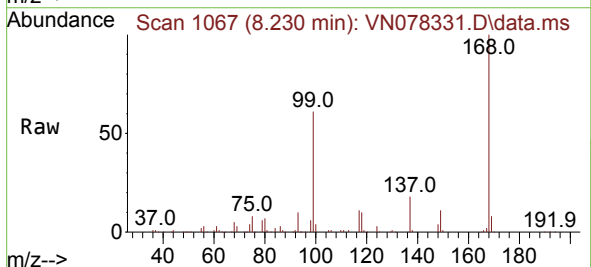
RT: 8.230 min Scan# 1067

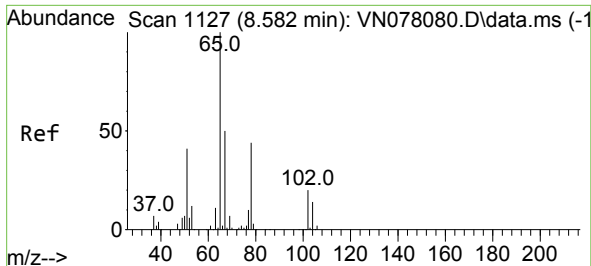
Delta R.T. -0.035 min

Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

Tgt Ion:	56	Resp:	10800
Ion Ratio	Lower	Upper	
56	100		
69	113.7	26.8	40.2#
84	81.6	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 55.406 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078331.D

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Instrument :

MSVOA_N

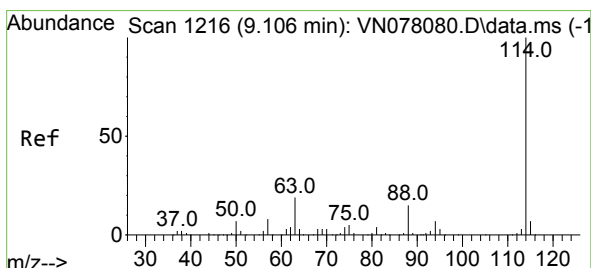
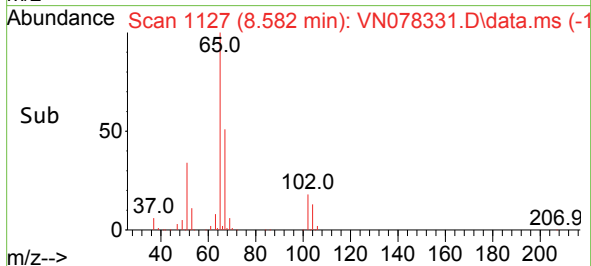
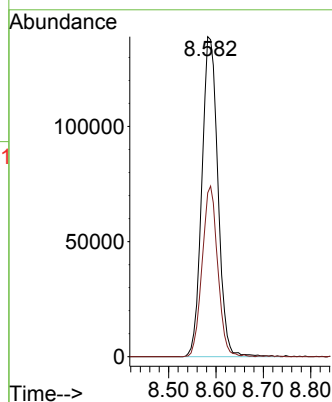
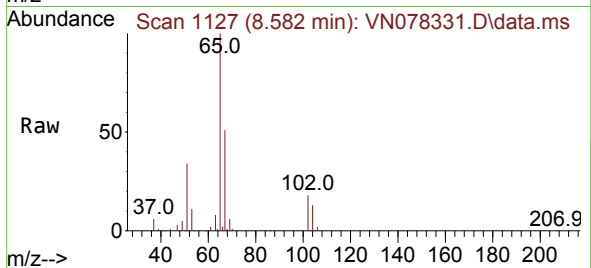
ClientSampleId :

Tgt Ion: 65 Resp: 326220

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

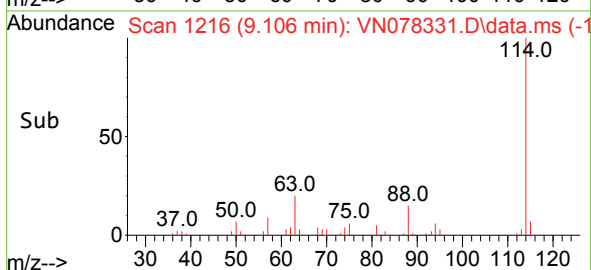
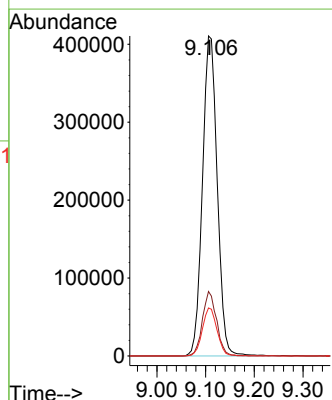
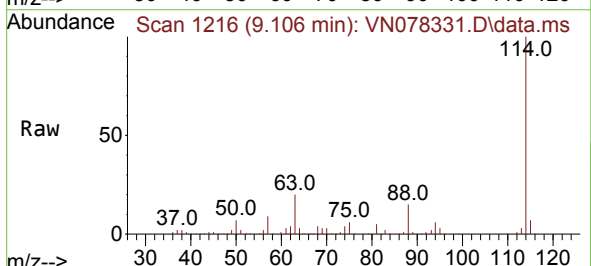
Tgt Ion: 114 Resp: 864346

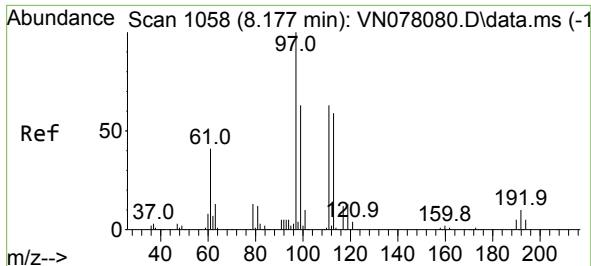
Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

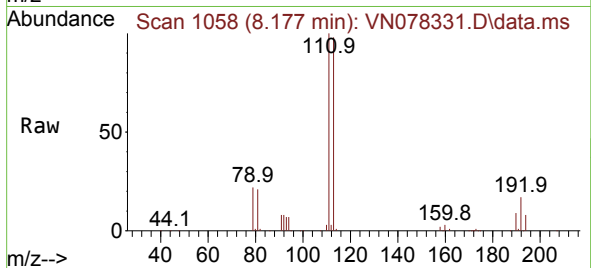
88 15.0 0.0 30.6



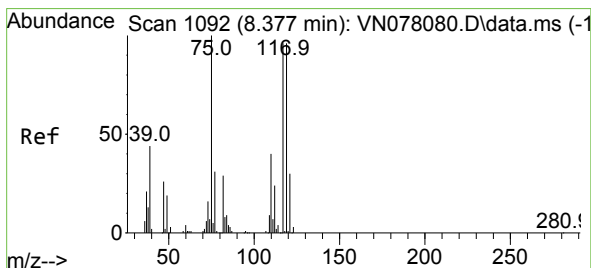
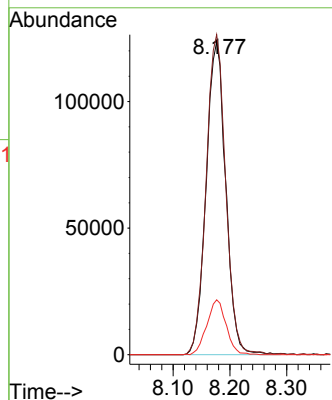
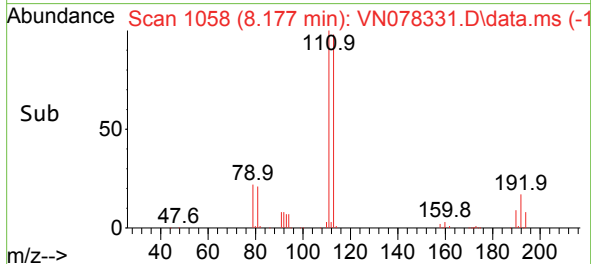


#35
Dibromofluoromethane
Concen: 54.030 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

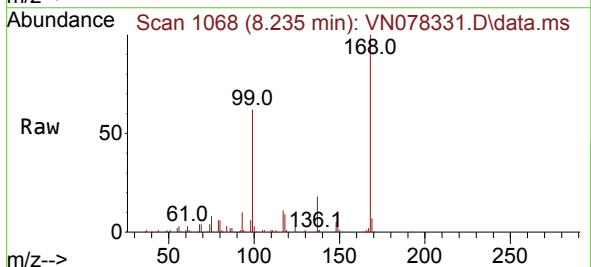
Instrument :
MSVOA_N
ClientSampleId :



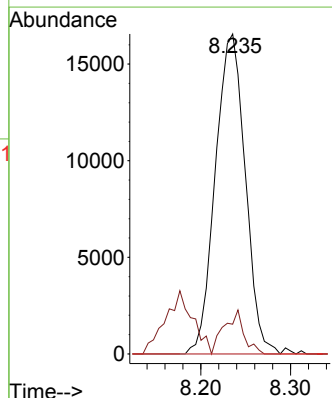
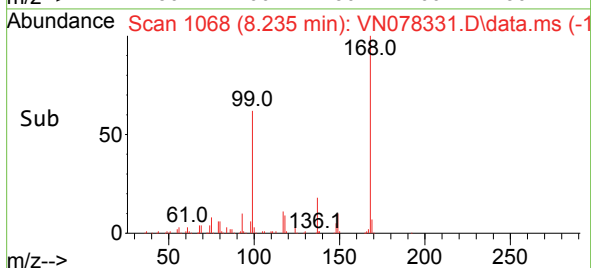
Tgt Ion:113 Resp: 295283
Ion Ratio Lower Upper
113 100
111 102.3 82.6 123.8
192 17.3 12.7 19.1

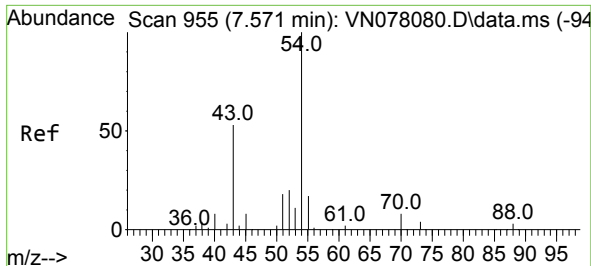


#36
1,1-Dichloropropene
Concen: 4.887 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47



Tgt Ion: 75 Resp: 38310
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#

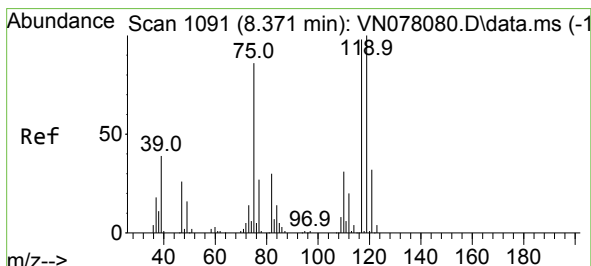
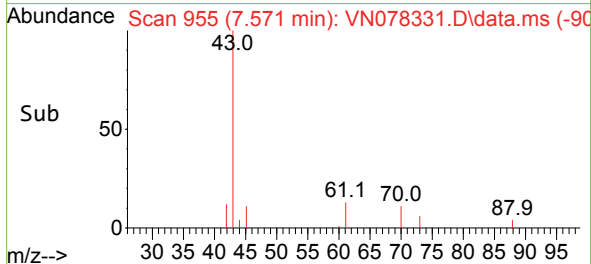
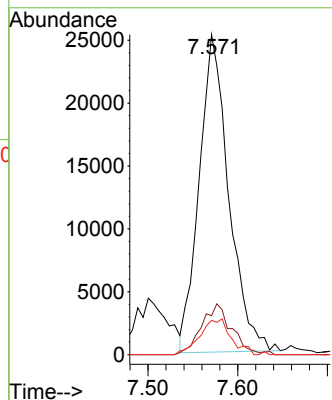
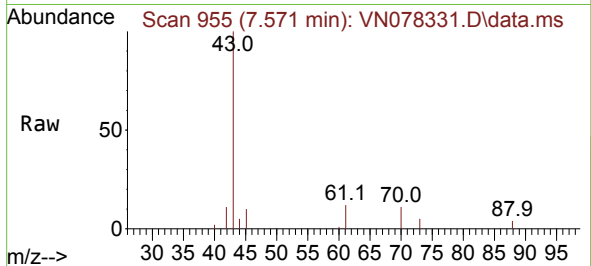




#37
Ethyl Acetate
Concen: 9.457 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

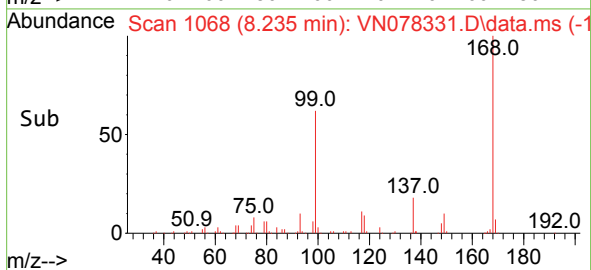
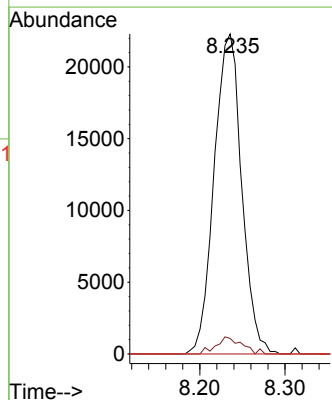
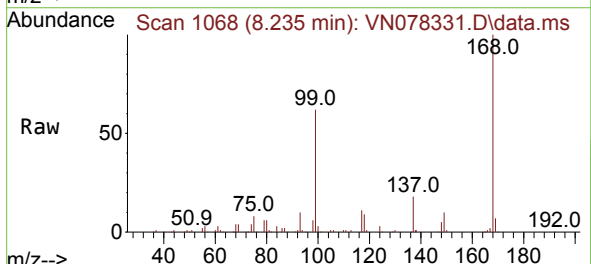
Instrument :
MSVOA_N
ClientSampleId :

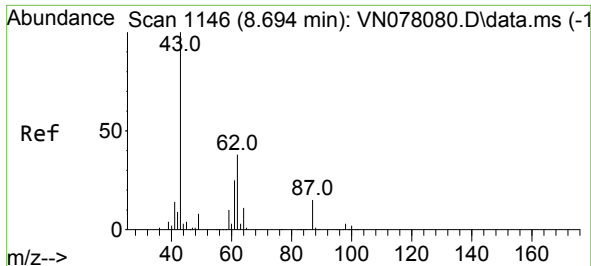
Tgt Ion:	43	Resp:	57911
Ion	Ratio	Lower	Upper
43	100		
61	16.3	13.2	19.8
70	11.7	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.051 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

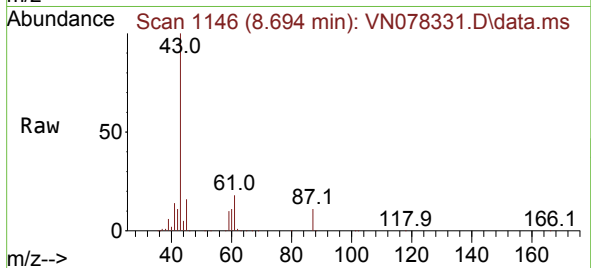
Tgt Ion:	117	Resp:	50086
Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.3	115.9#
121	0.0	23.3	34.9#



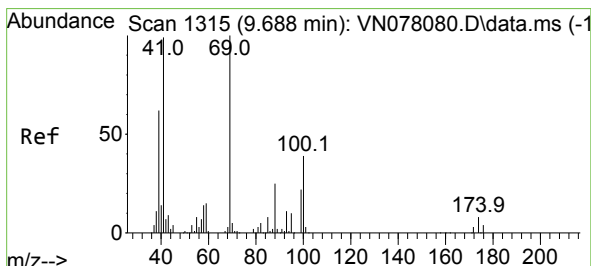
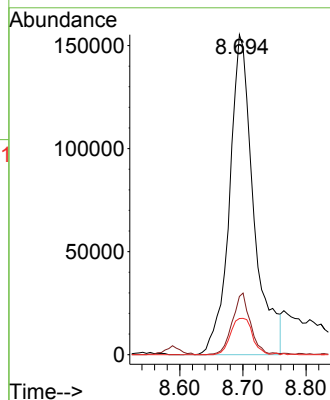
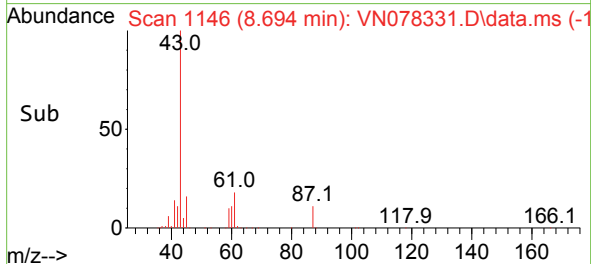


#43
Isopropyl Acetate
Concen: 35.359 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Instrument :
MSVOA_N
ClientSampleId :

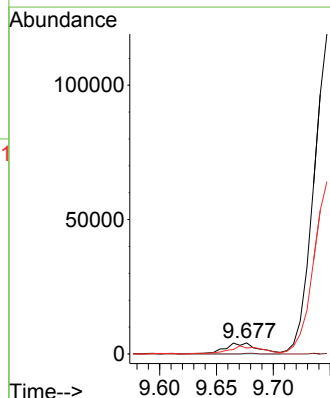
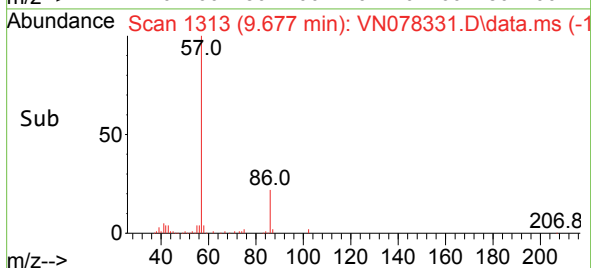
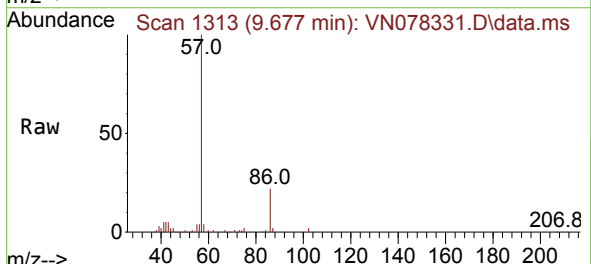


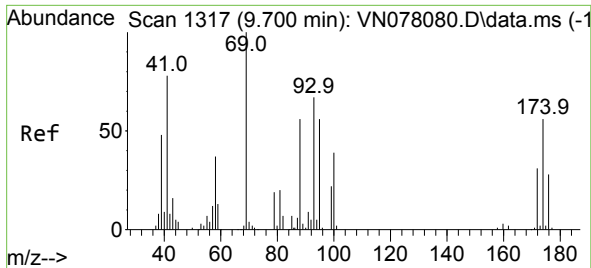
Tgt Ion: 43 Resp: 414120
Ion Ratio Lower Upper
43 100
61 14.6 24.7 37.1#
87 10.2 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.701 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

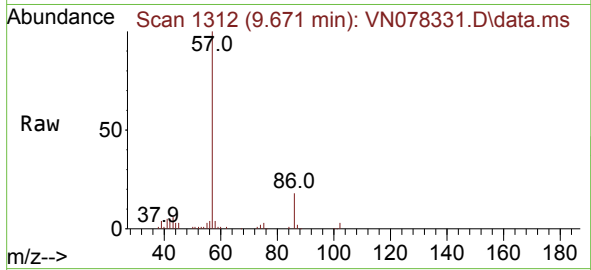
Tgt Ion: 41 Resp: 8358
Ion Ratio Lower Upper
41 100
69 2.0 90.4 135.6#
39 72.2 54.6 81.8



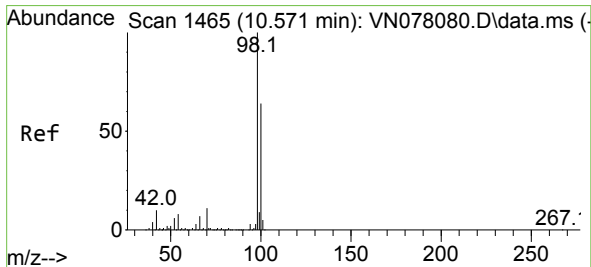
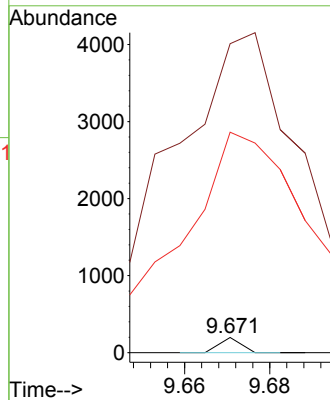
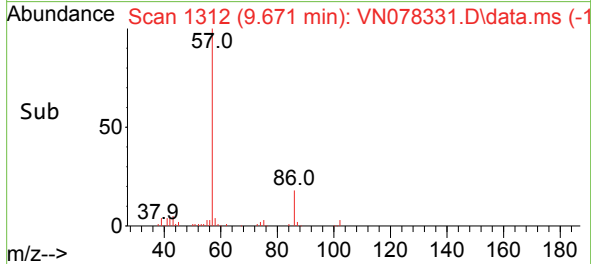


#49
1,4-Dioxane
Concen: 0.678 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Instrument :
MSVOA_N
ClientSampleId :

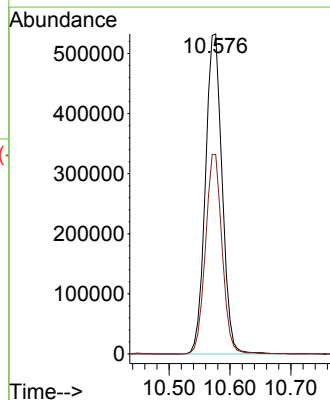
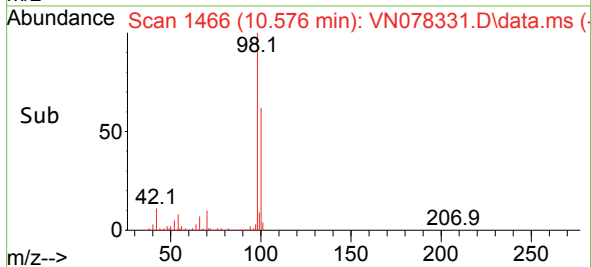
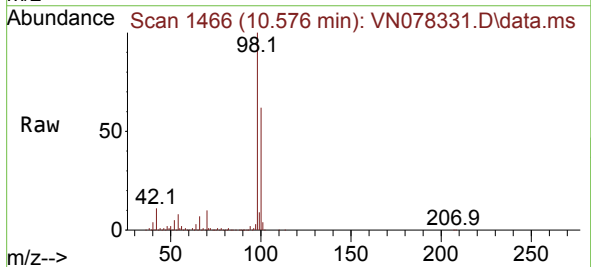


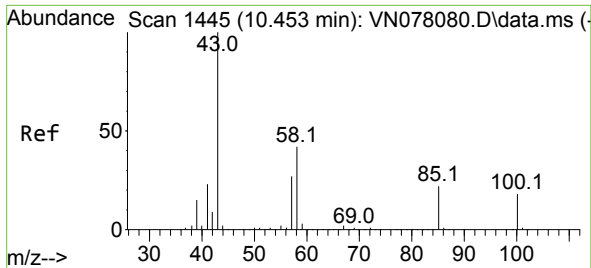
Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 9088.6 47.0 70.4#



#50
Toluene-d8
Concen: 48.188 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Tgt Ion: 98 Resp: 1015260
Ion Ratio Lower Upper
98 100
100 62.2 52.0 78.0

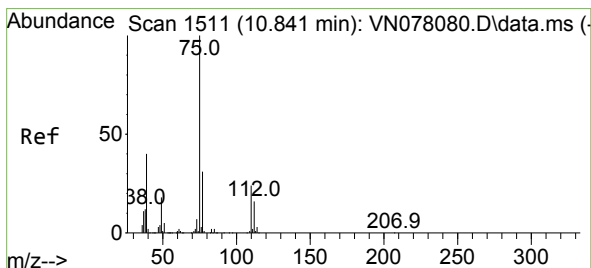
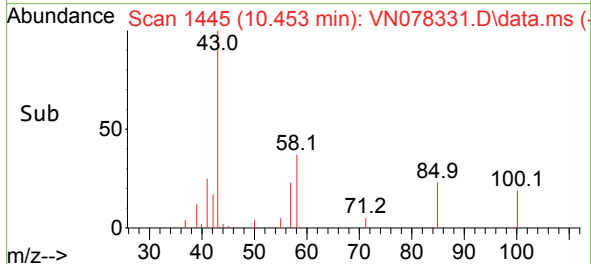
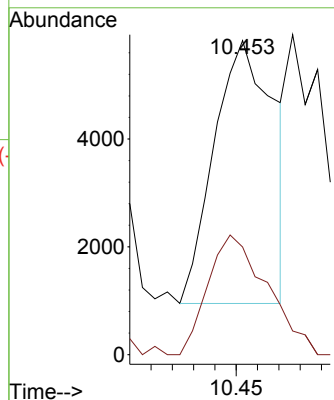
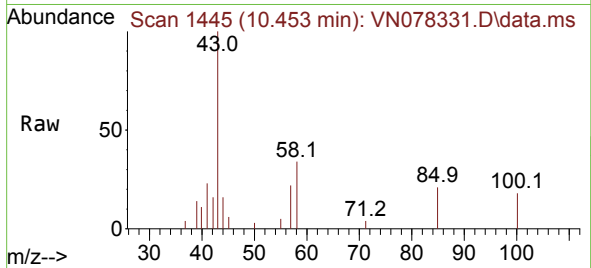




#51
4-Methyl-2-Pentanone
Concen: 1.537 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

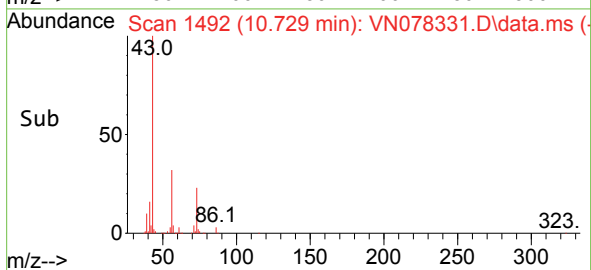
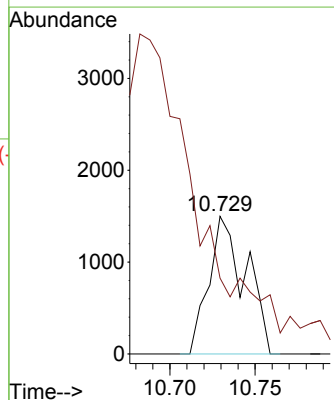
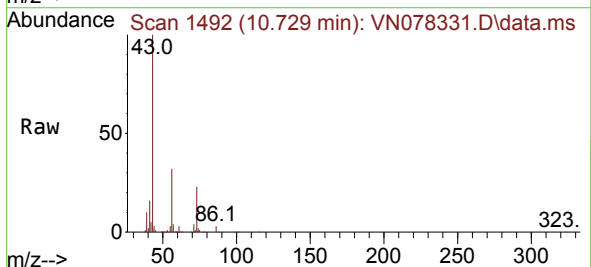
Instrument :
MSVOA_N
ClientSampleId :

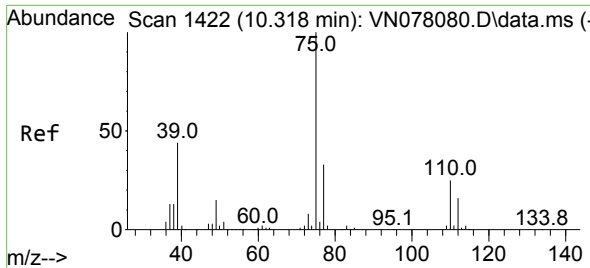
Tgt Ion: 43 Resp: 9478
Ion Ratio Lower Upper
43 100
58 45.3 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

Tgt Ion: 75 Resp: 2256
Ion Ratio Lower Upper
75 100
77 40.0 25.4 38.0#

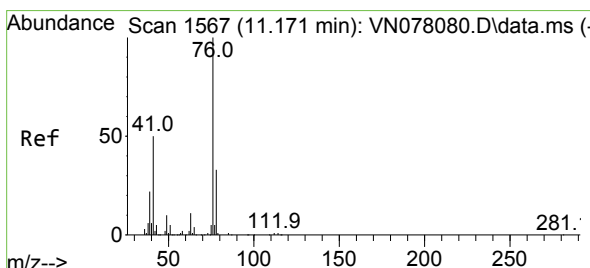
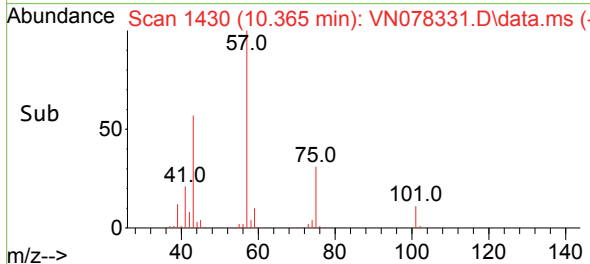
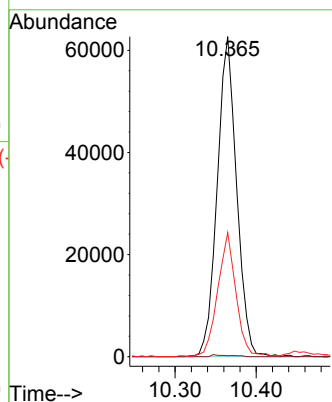
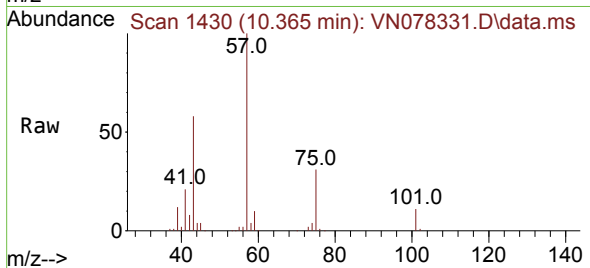




#54
 cis-1,3-Dichloropropene
 Concen: 11.362 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078331.D
 Acq: 21 Jun 2023 18:47

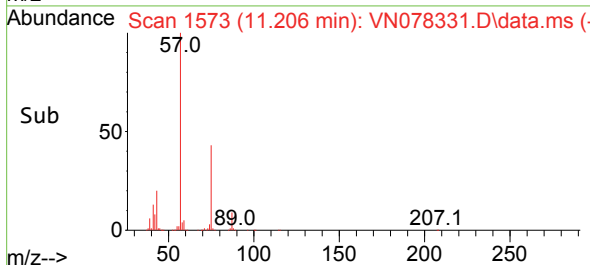
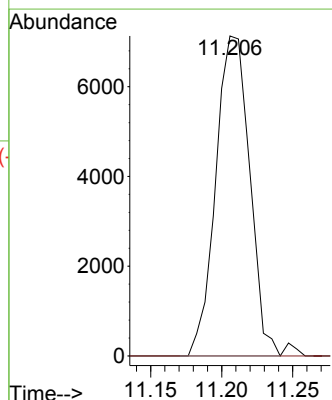
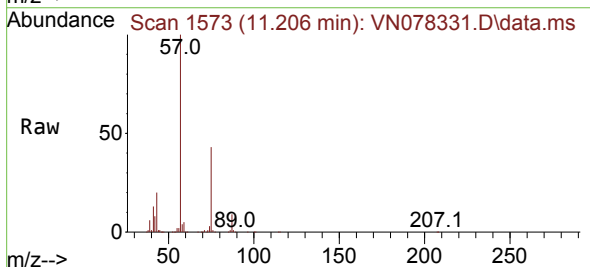
Instrument :
 MSVOA_N
 ClientSampleId :

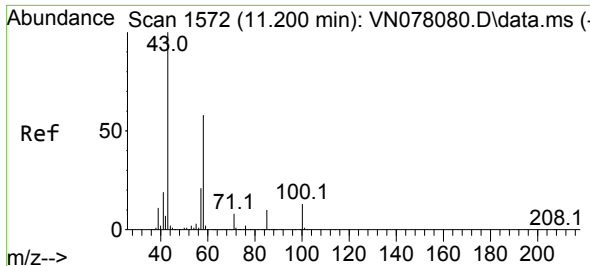
Tgt Ion: 75 Resp: 104206
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.1 39.1#
 39 38.5 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.255 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078331.D
 Acq: 21 Jun 2023 18:47

Tgt Ion: 76 Resp: 11840
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

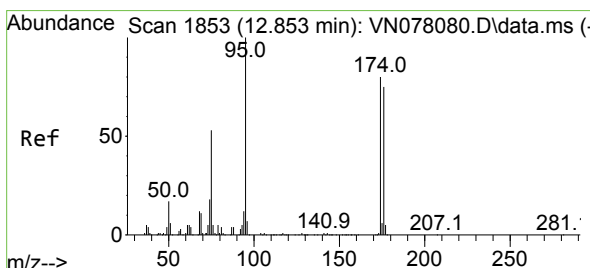
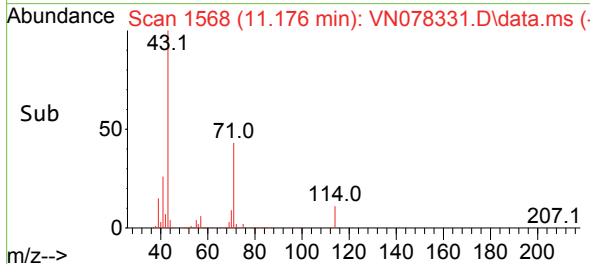
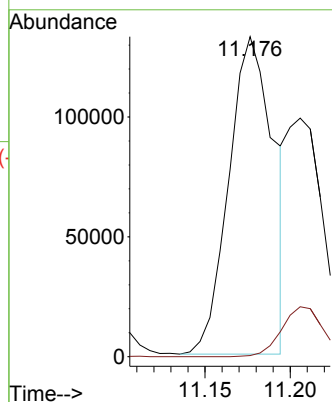
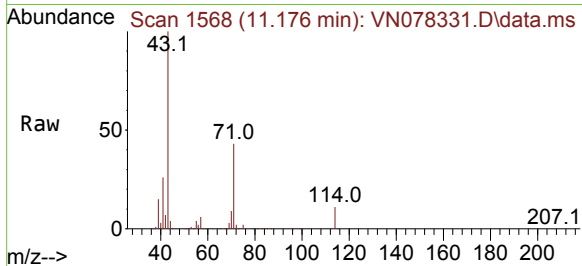




#59
2-Hexanone
Concen: 56.381 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.023 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

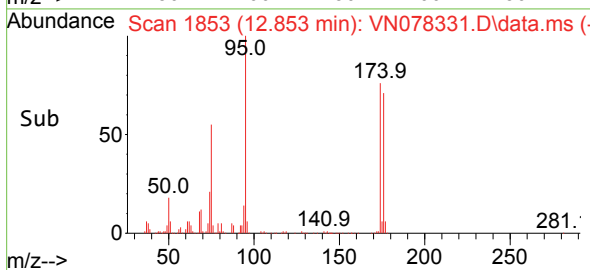
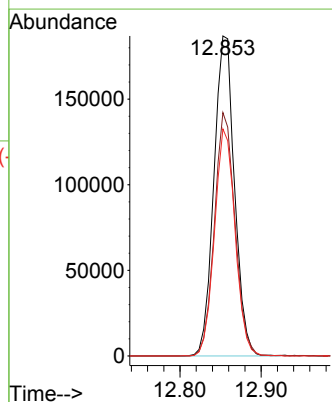
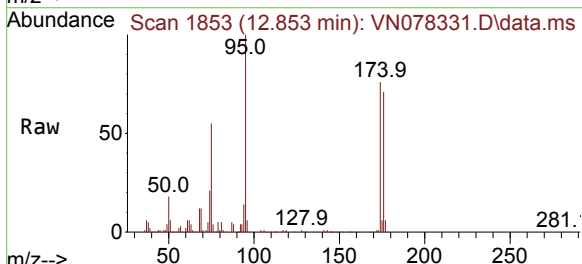
Instrument :
MSVOA_N
ClientSampleId :

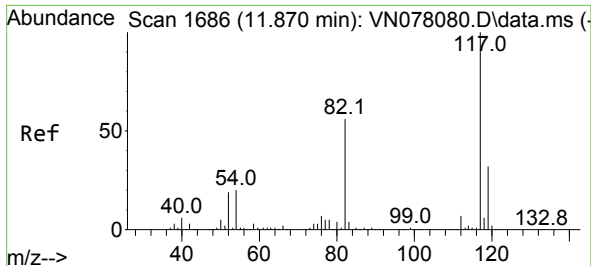
Tgt Ion: 43 Resp: 242111
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.420 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

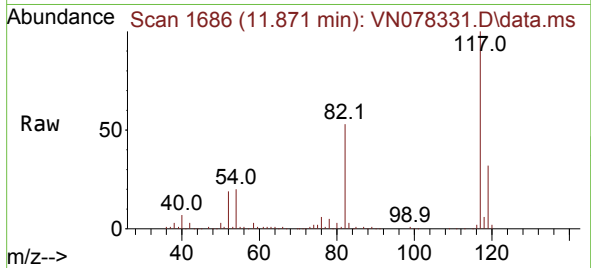
Tgt Ion: 95 Resp: 330238
Ion Ratio Lower Upper
95 100
174 75.8 0.0 143.8
176 70.9 0.0 135.8



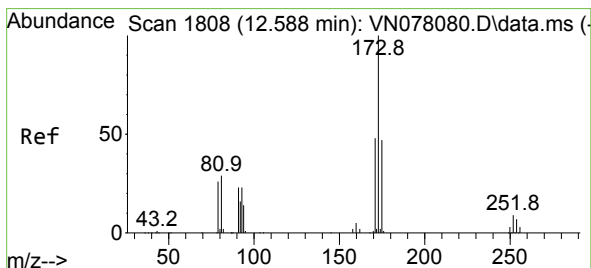
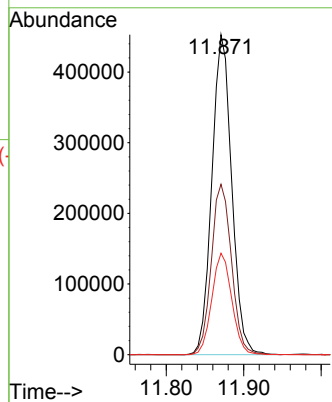
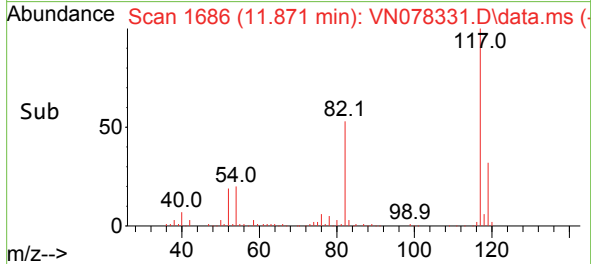


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47

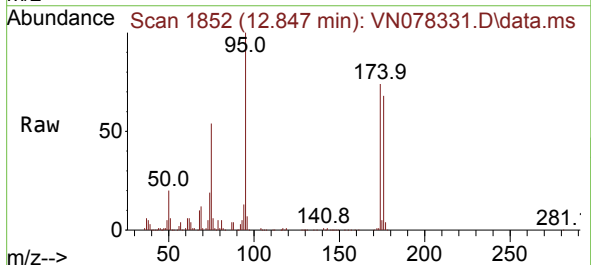
Instrument :
MSVOA_N
ClientSampleId :



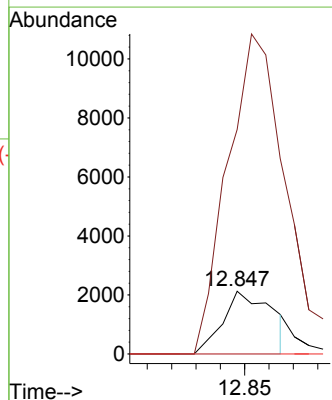
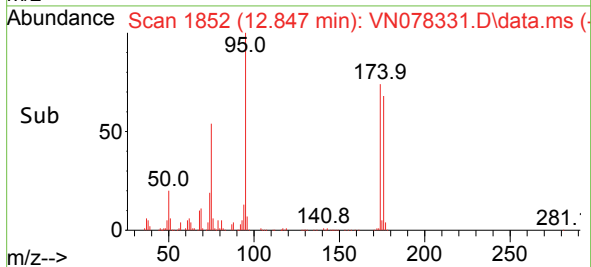
Tgt Ion:117 Resp: 805759
Ion Ratio Lower Upper
117 100
82 53.2 44.0 66.0
119 31.7 25.6 38.4

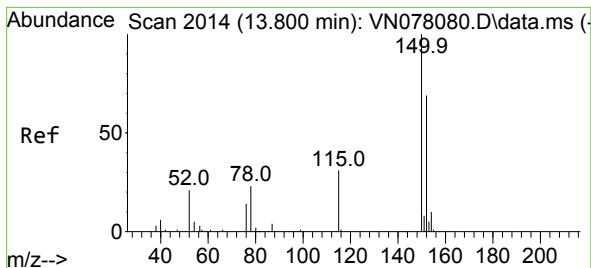


#71
Bromoform
Concen: 0.726 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.259 min
Lab File: VN078331.D
Acq: 21 Jun 2023 18:47



Tgt Ion:173 Resp: 2975
Ion Ratio Lower Upper
173 100
175 513.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. 0.000 min

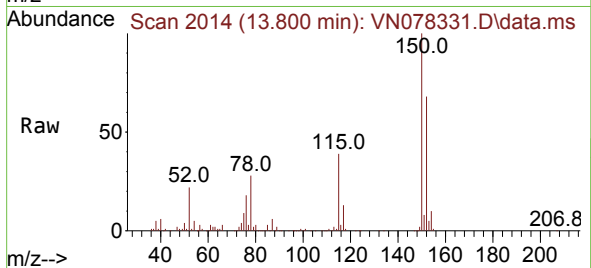
Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

Instrument :

MSVOA_N

ClientSampleId :



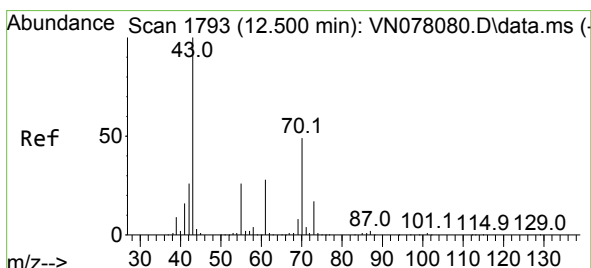
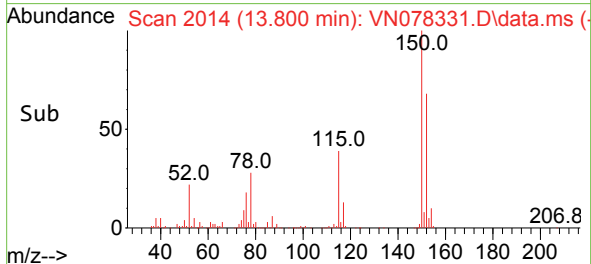
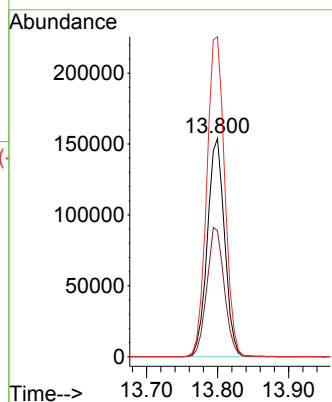
Tgt Ion:152 Resp: 259352

Ion Ratio Lower Upper

152 100

115 59.9 32.3 96.8

150 152.7 0.0 355.8



#74

N-ethyl acetate

Concen: 0.444 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.006 min

Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

Tgt Ion: 43 Resp: 3582

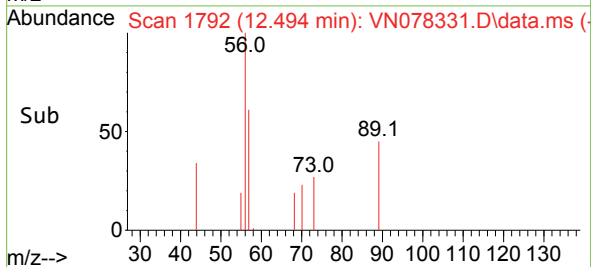
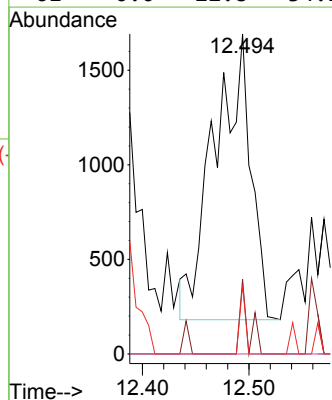
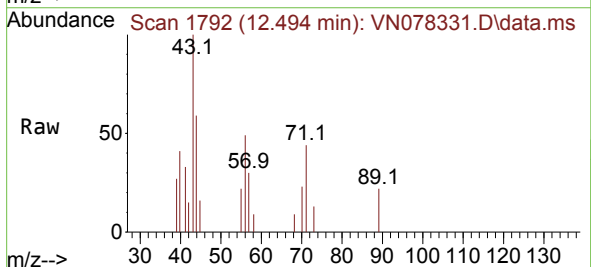
Ion Ratio Lower Upper

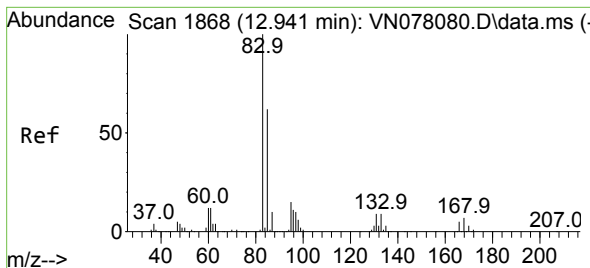
43 100

70 6.0 43.4 65.2#

55 3.6 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.965 min Scan# 1872

Delta R.T. 0.024 min

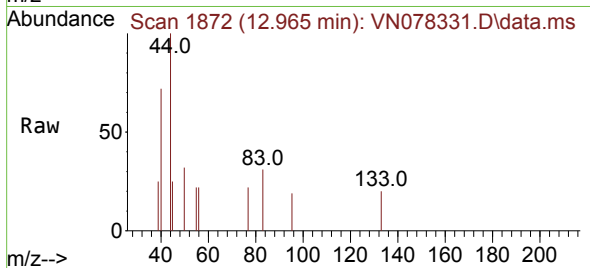
Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

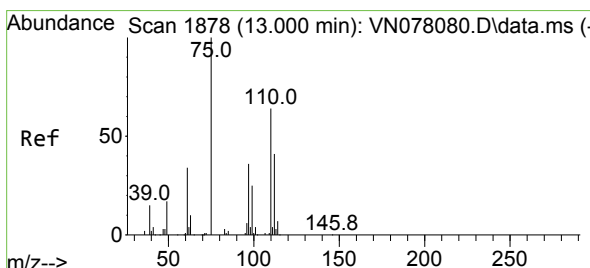
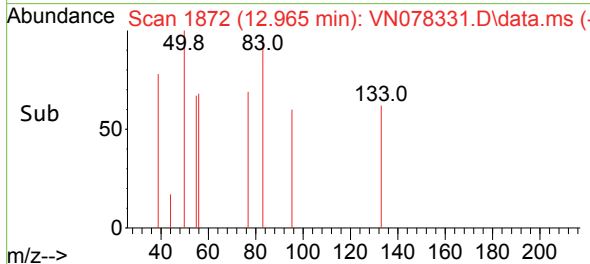
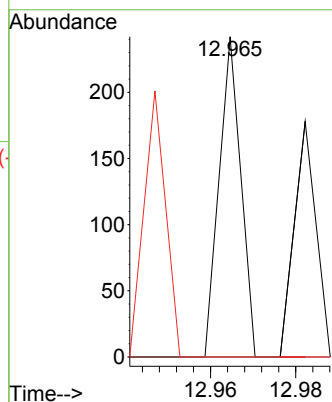
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	83	Resp:	85
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.0	15.0#
85	83.5	31.9	95.7



#76

1,2,3-Trichloropropane

Concen: 28.890 ug/l

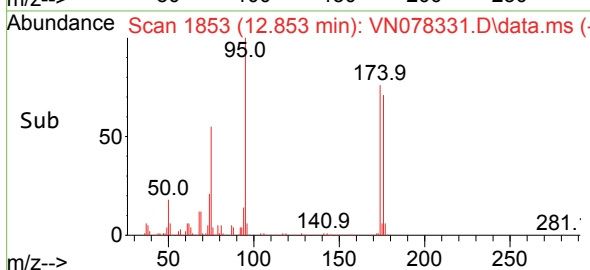
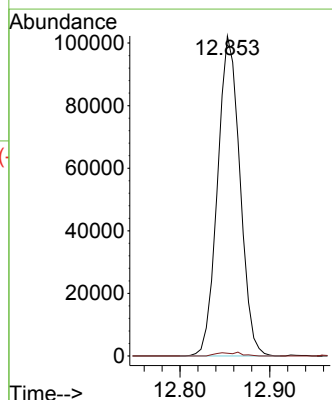
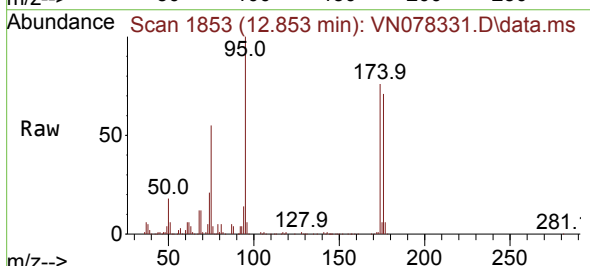
RT: 12.853 min Scan# 1853

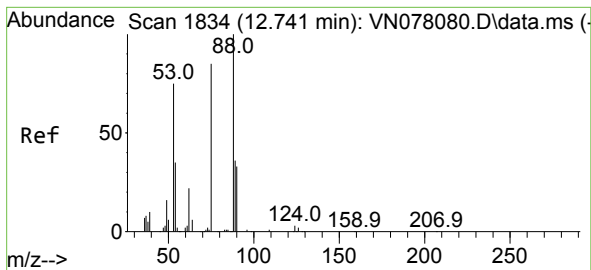
Delta R.T. -0.147 min

Lab File: VN078331.D

Acq: 21 Jun 2023 18:47

Tgt Ion:	75	Resp:	177131
Ion Ratio	Lower	Upper	
75	100		
77	1.2	84.5	253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.760 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078331.D
 Acq: 21 Jun 2023 18:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 177131
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

