

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061523\
 Data File : VN078228.D
 Acq On : 15 Jun 2023 15:08
 Operator : JC\MD
 Sample : 03259-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

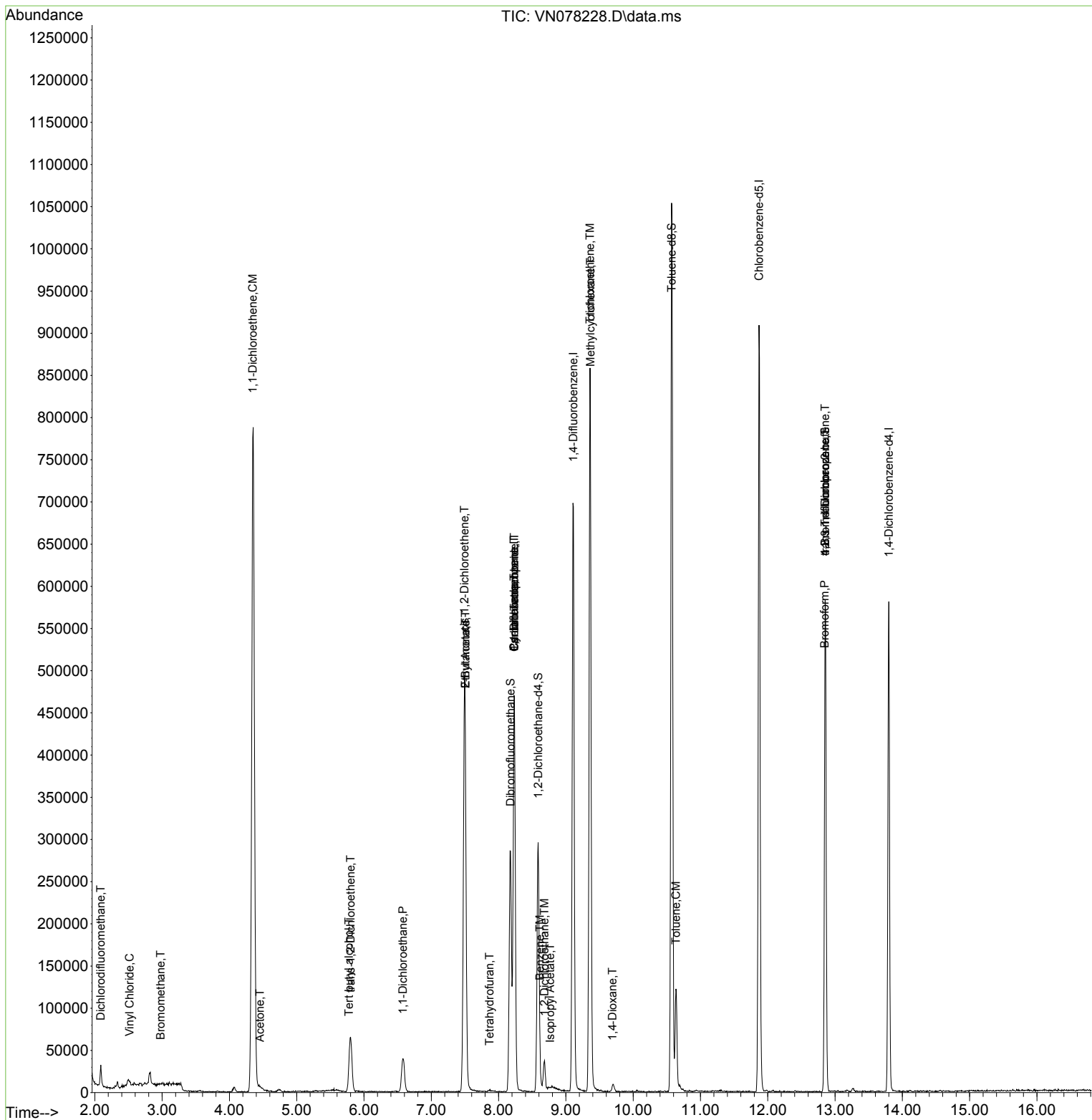
Quant Time: Jun 16 06:07:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

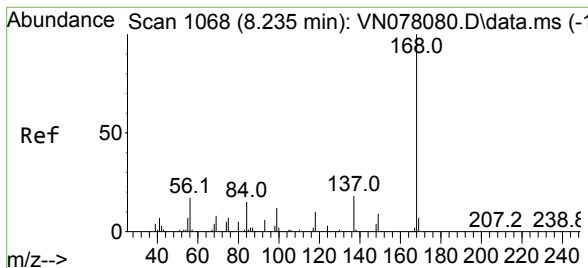
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	338300	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	619334	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	543457	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	151854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	237992	52.763	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.520%	
35) Dibromofluoromethane	8.177	113	212334	54.223	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.440%	
50) Toluene-d8	10.571	98	778913	51.596	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.200%	
62) 4-Bromofluorobenzene	12.853	95	212467	45.272	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 90.540%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.089	85	1330	0.348	ug/l	91
3) Chloromethane	2.365	50	1132	Below Cal		88
4) Vinyl Chloride	2.518	62	4150	0.829	ug/l	97
5) Bromomethane	2.977	94	1883	0.498	ug/l	98
11) Tert butyl alcohol	5.777	59	1092	1.753	ug/l #	72
12) 1,1-Dichloroethene	4.347	96	470674	127.408	ug/l	90
16) Acetone	4.453	43	5011	3.860	ug/l #	74
21) trans-1,2-Dichloroethene	5.800	96	42485	10.663	ug/l	86
24) 1,1-Dichloroethane	6.577	63	58588	8.373	ug/l	97
25) 2-Butanone	7.506	43	1345	0.674	ug/l #	1
27) cis-1,2-Dichloroethene	7.494	96	310886	65.412	ug/l	95
29) Tetrahydrofuran	7.865	42	778	0.583	ug/l #	39
31) Cyclohexane	8.230	56	7675	1.326	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	29700	5.288	ug/l #	49
37) Ethyl Acetate	7.506	43	1345	0.307	ug/l #	1
38) Carbon Tetrachloride	8.235	117	36410	6.139	ug/l #	17
39) Methylcyclohexane	9.365	83	3903	0.670	ug/l #	1
40) Benzene	8.612	78	5736	0.342	ug/l	100
42) 1,2-Dichloroethane	8.682	62	33899	5.896	ug/l	94
43) Isopropyl Acetate	8.765	43	5050	0.602	ug/l #	49
44) Trichloroethene	9.359	130	305527	68.991	ug/l	100
49) 1,4-Dioxane	9.694	88	7347	99.259	ug/l #	93
52) Toluene	10.635	92	53350	5.039	ug/l	99
71) Bromoform	12.847	173	1207	0.437	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.853	83	268	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	112260	31.271	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	112260	96.075	ug/l #	15

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

Quant Time: Jun 16 06:07:37 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

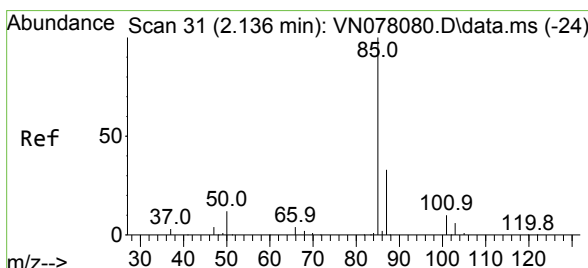
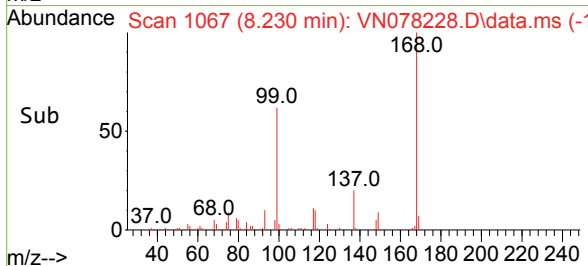
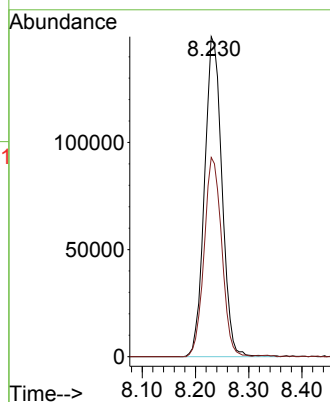
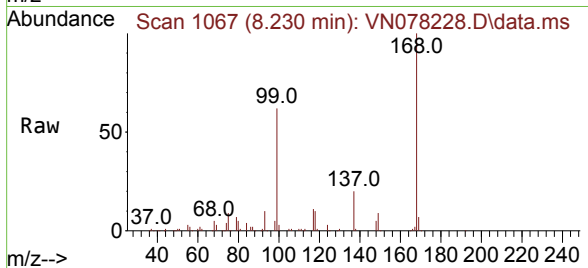
ClientSampleId :

Tgt Ion:168 Resp: 338300

Ion Ratio Lower Upper

168 100

99 62.3 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.348 ug/l

RT: 2.089 min Scan# 23

Delta R.T. -0.047 min

Lab File: VN078228.D

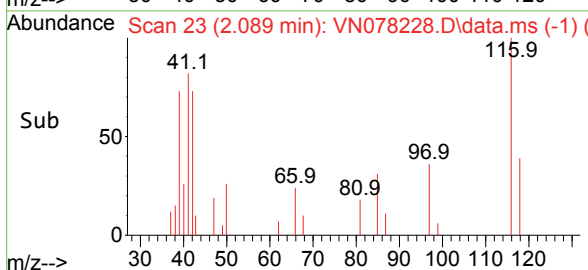
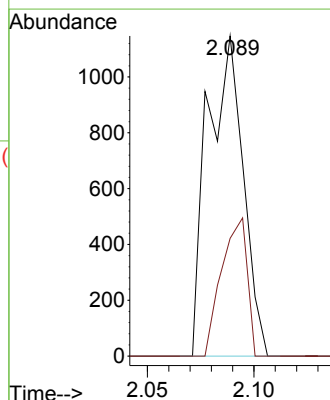
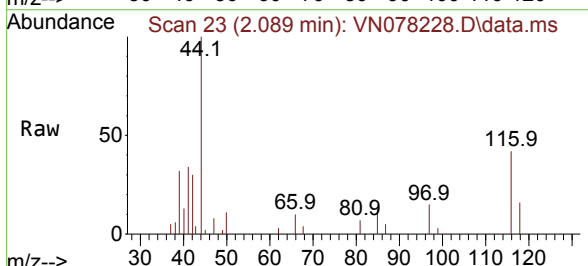
Acq: 15 Jun 2023 15:08

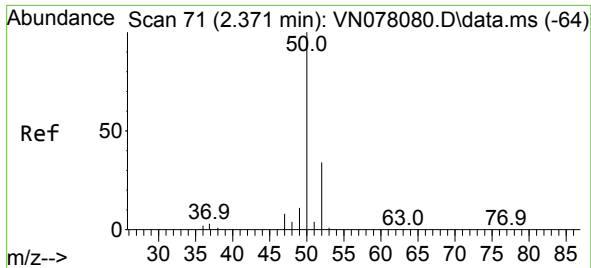
Tgt Ion: 85 Resp: 1330

Ion Ratio Lower Upper

85 100

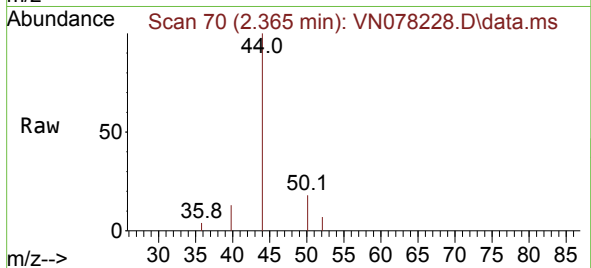
87 36.8 15.8 47.4



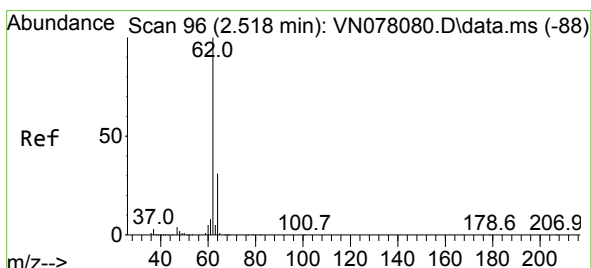
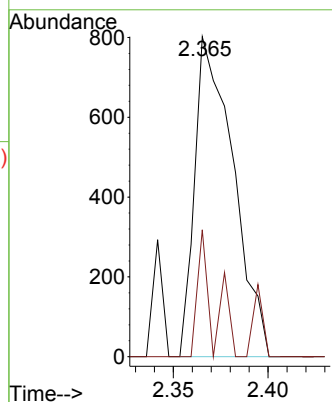
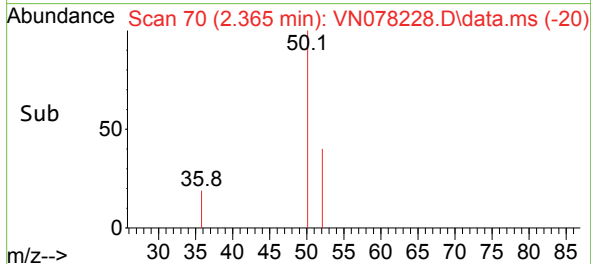


#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Instrument :
MSVOA_N
ClientSampleId :

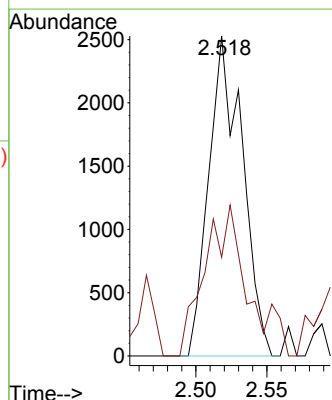
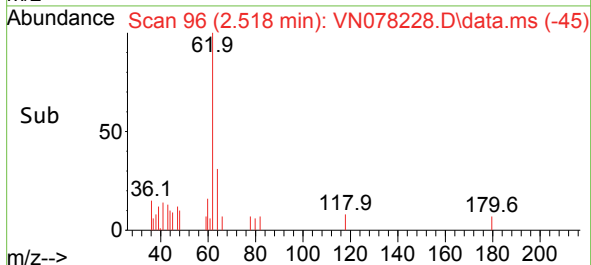
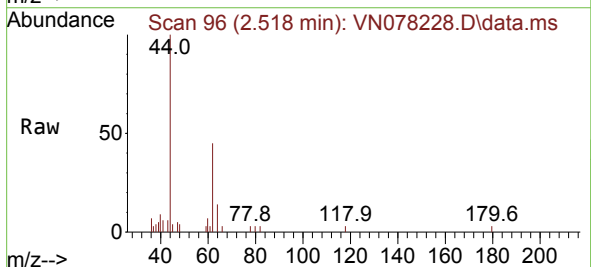


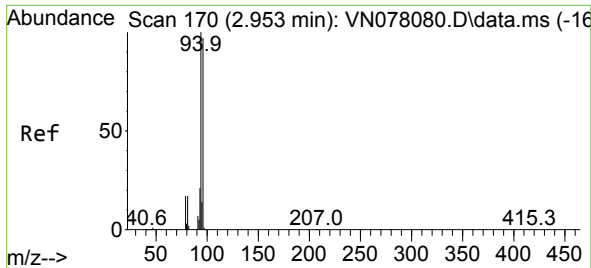
Tgt Ion: 50 Resp: 1132
Ion Ratio Lower Upper
50 100
52 39.7 26.5 39.7



#4
Vinyl Chloride
Concen: 0.829 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 62 Resp: 4150
Ion Ratio Lower Upper
62 100
64 30.8 26.2 39.2

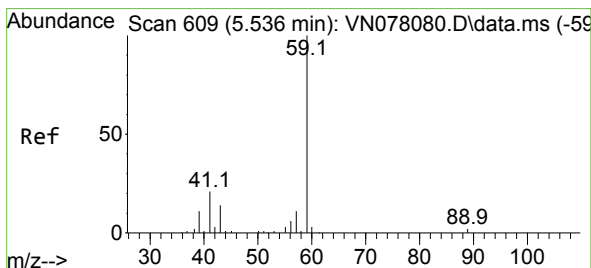
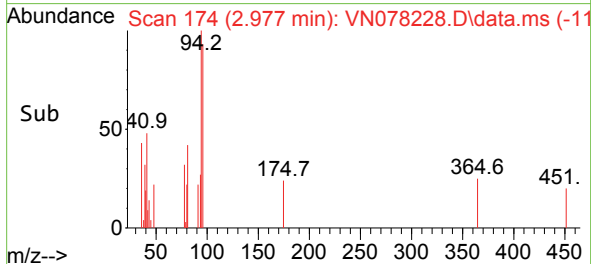
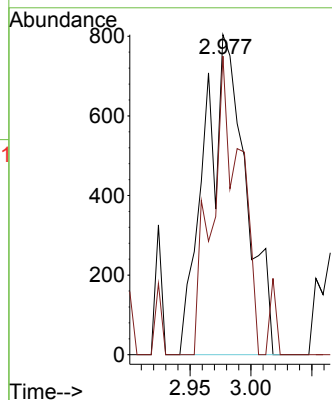
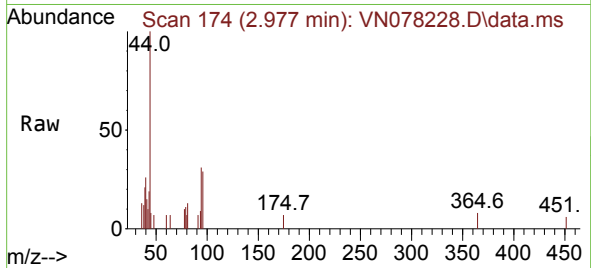




#5
Bromomethane
Concen: 0.498 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

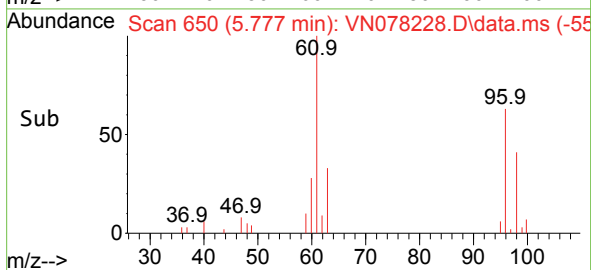
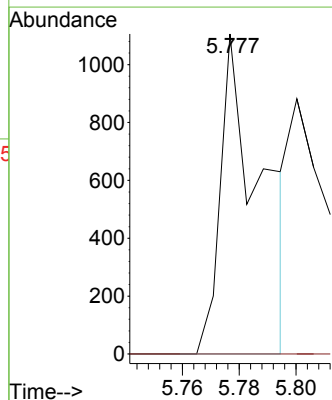
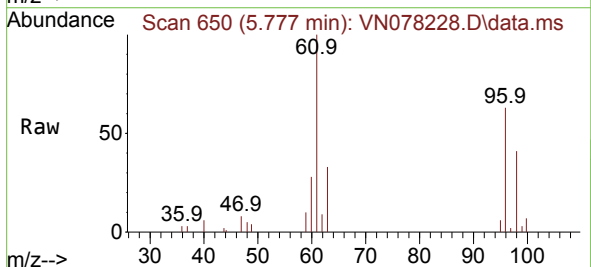
Instrument :
MSVOA_N
ClientSampleId :

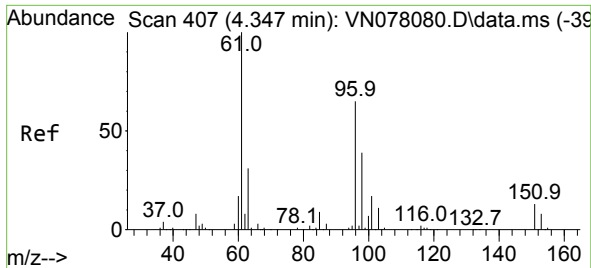
Tgt Ion: 94 Resp: 1883
Ion Ratio Lower Upper
94 100
96 93.3 73.1 109.7



#11
Tert butyl alcohol
Concen: 1.753 ug/l
RT: 5.777 min Scan# 650
Delta R.T. 0.241 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 59 Resp: 1092
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

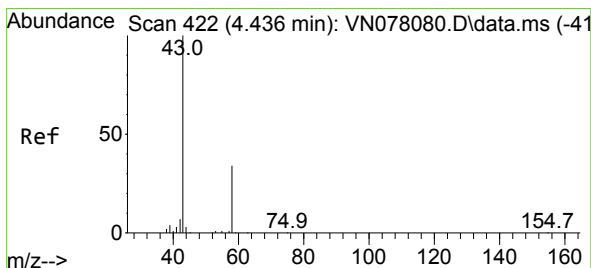
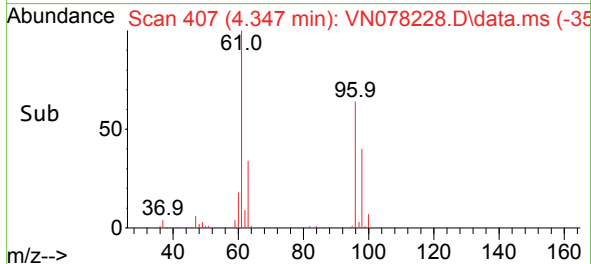
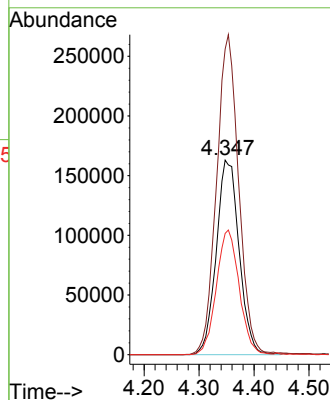
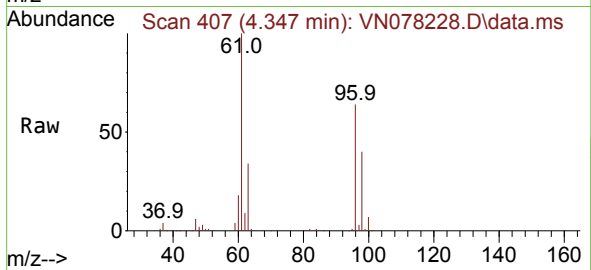




#12
1,1-Dichloroethene
Concen: 127.408 ug/l
RT: 4.347 min Scan# 407
Delta R.T. -0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

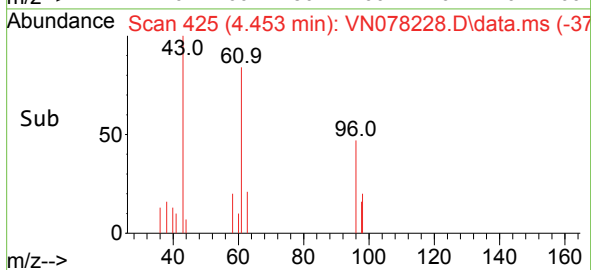
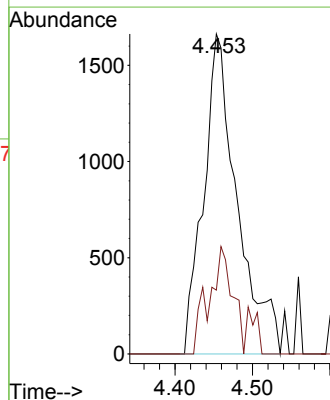
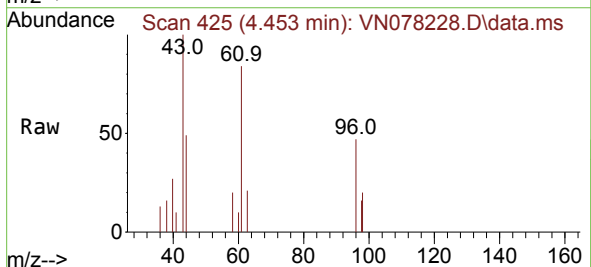
Instrument :
MSVOA_N
ClientSampleId :

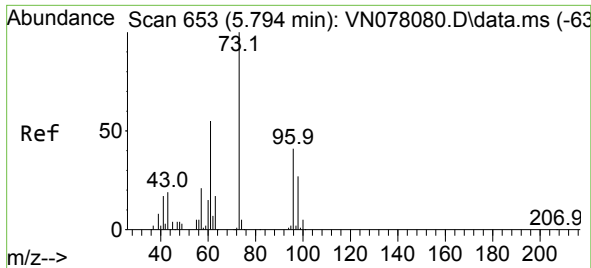
Tgt Ion: 96 Resp: 470674
Ion Ratio Lower Upper
96 100
61 157.1 112.7 169.1
98 62.3 51.2 76.8



#16
Acetone
Concen: 3.860 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 43 Resp: 5011
Ion Ratio Lower Upper
43 100
58 20.0 28.0 42.0#

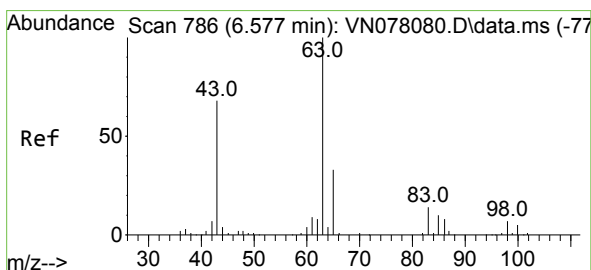
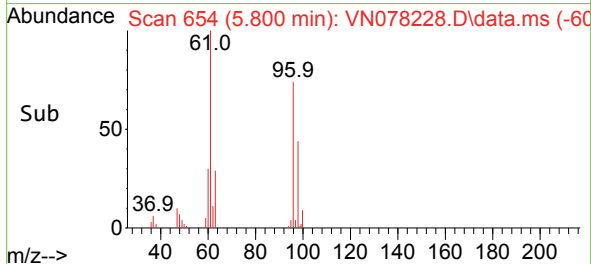
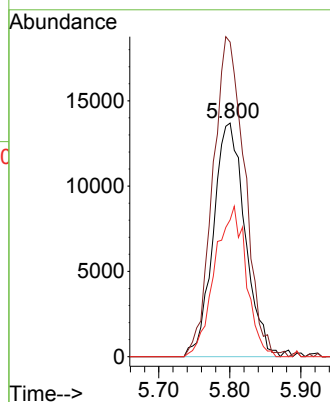
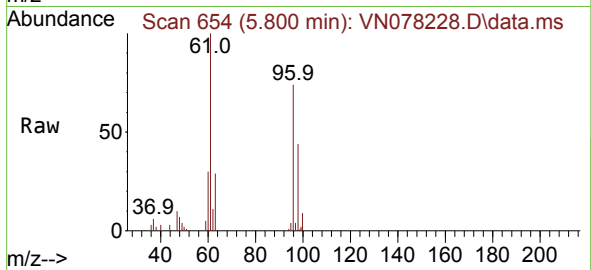




#21
trans-1,2-Dichloroethene
Concen: 10.663 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

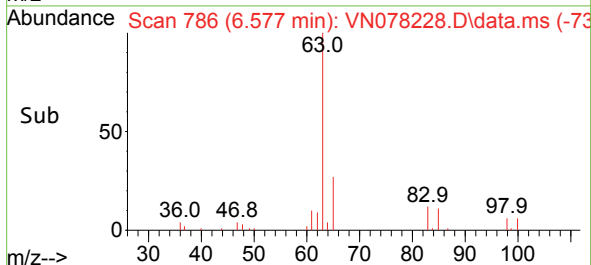
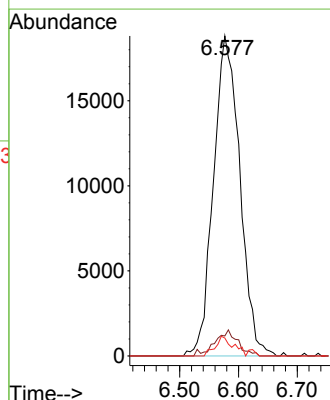
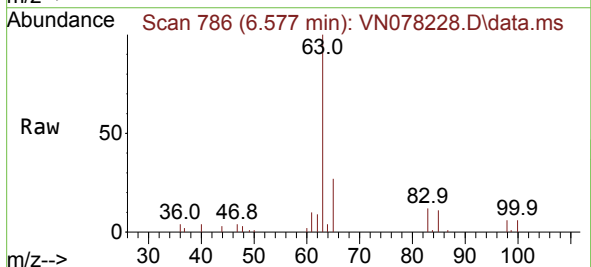
Instrument :
MSVOA_N
ClientSampleId :

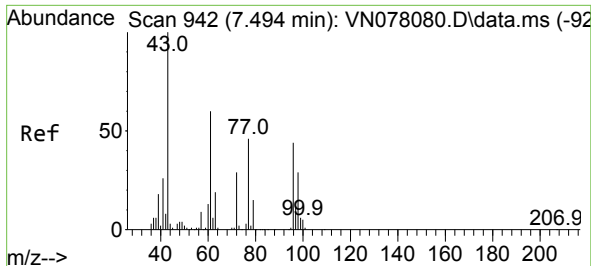
Tgt Ion: 96 Resp: 42485
Ion Ratio Lower Upper
96 100
61 134.7 90.1 135.1
98 58.6 46.4 69.6



#24
1,1-Dichloroethane
Concen: 8.373 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

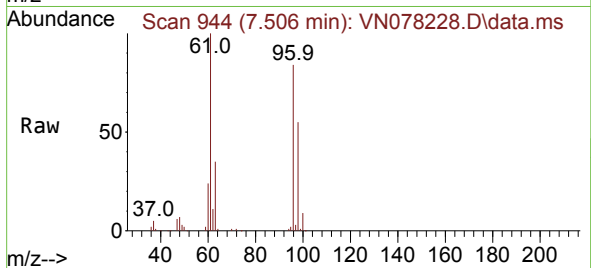
Tgt Ion: 63 Resp: 58588
Ion Ratio Lower Upper
63 100
98 6.3 3.9 11.7
100 5.6 2.5 7.4



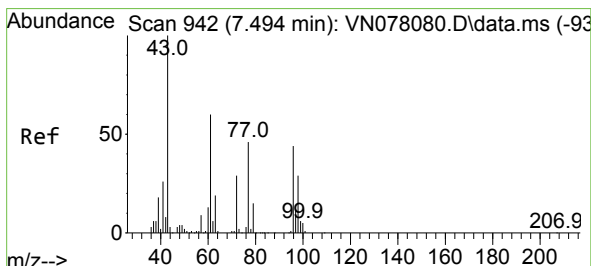
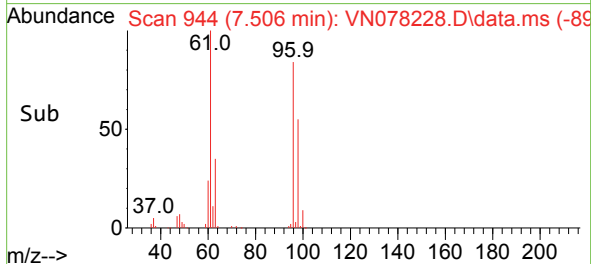
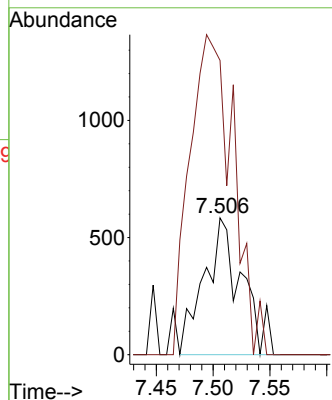


#25
2-Butanone
Concen: 0.674 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Instrument :
MSVOA_N
ClientSampleId :

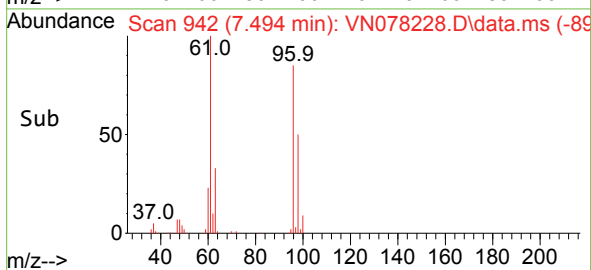
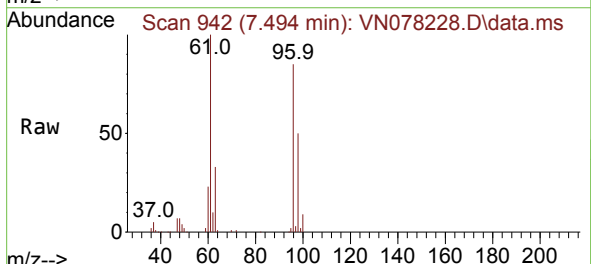
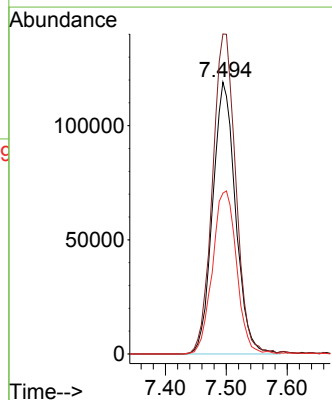


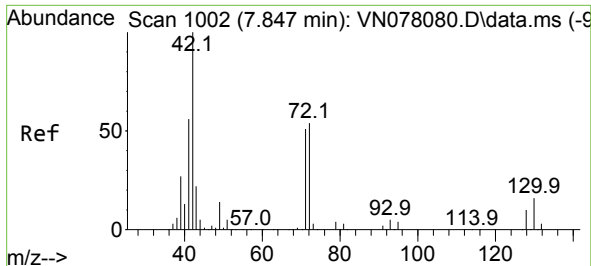
Tgt Ion: 43 Resp: 1345
Ion Ratio Lower Upper
43 100
72 215.1 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 65.412 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 96 Resp: 310886
Ion Ratio Lower Upper
96 100
61 119.6 0.0 255.2
98 63.2 0.0 128.8





#29

Tetrahydrofuran

Concen: 0.583 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

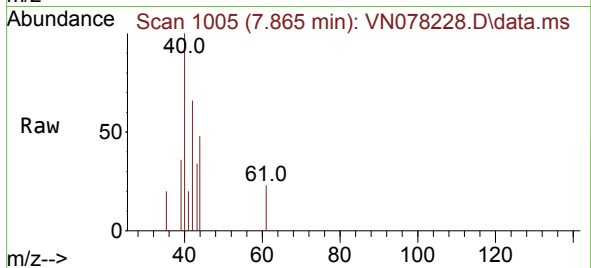
Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

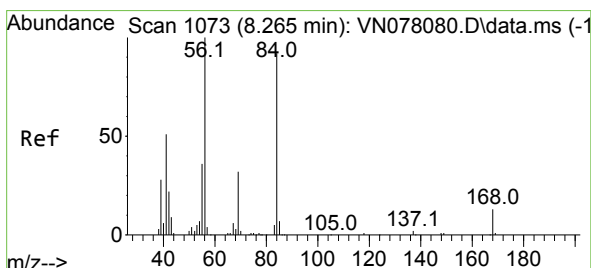
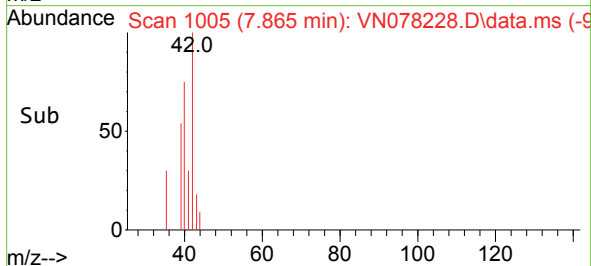
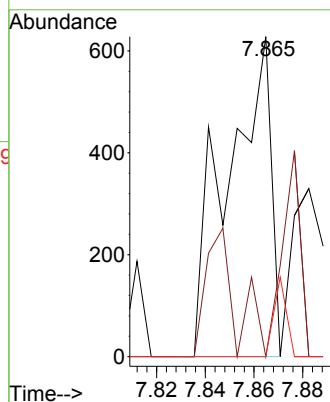
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	778
Ion	Ratio	Lower	Upper
42	100		
72	27.8	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.326 ug/l

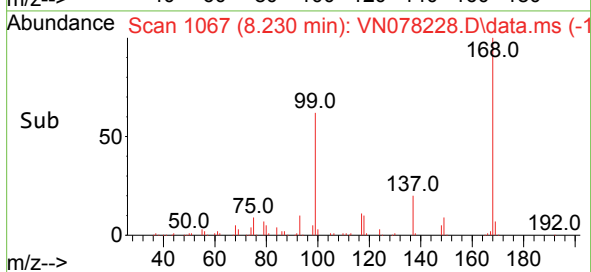
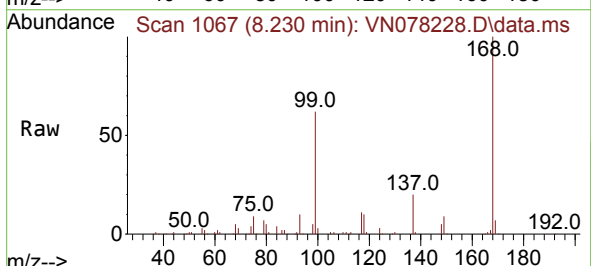
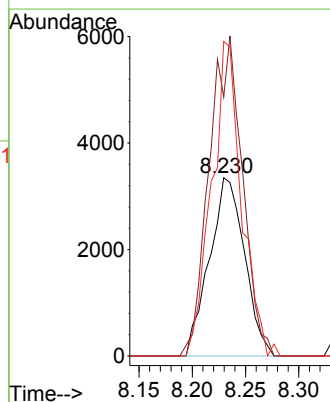
RT: 8.230 min Scan# 1067

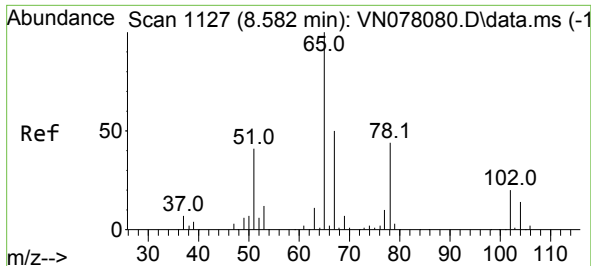
Delta R.T. -0.035 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Tgt Ion:	56	Resp:	7675
Ion	Ratio	Lower	Upper
56	100		
69	145.3	26.8	40.2#
84	176.4	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 52.763 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

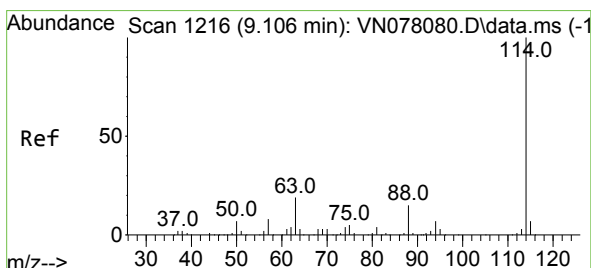
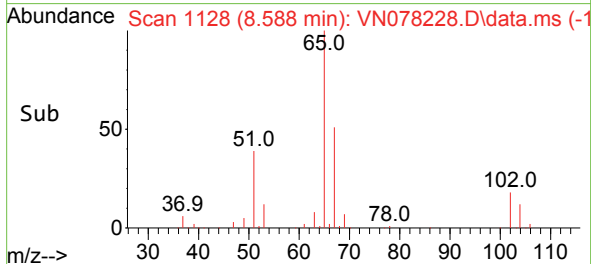
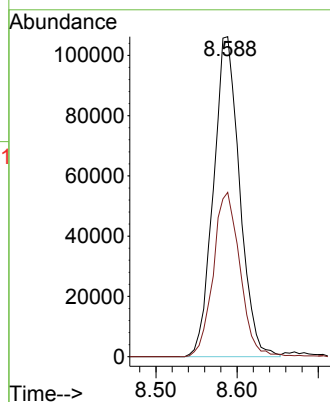
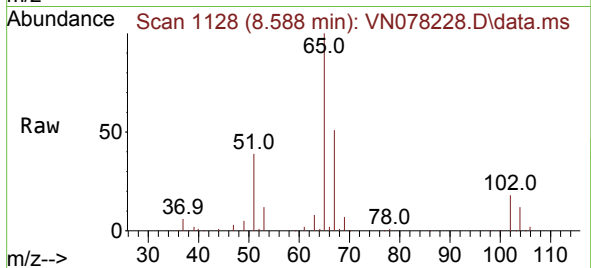
ClientSampleId :

Tgt Ion: 65 Resp: 237992

Ion Ratio Lower Upper

65 100

67 52.6 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: VN078228.D

Acq: 15 Jun 2023 15:08

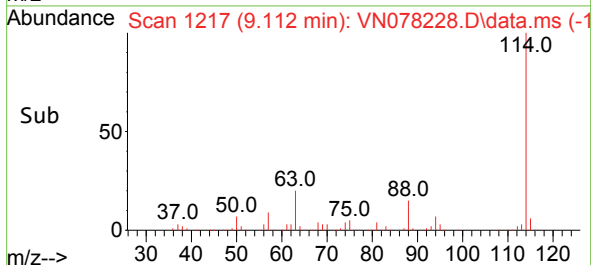
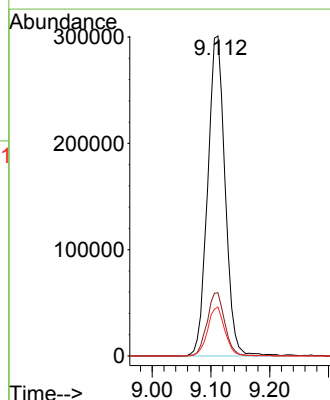
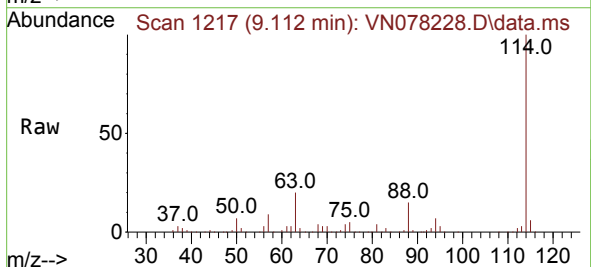
Tgt Ion: 114 Resp: 619334

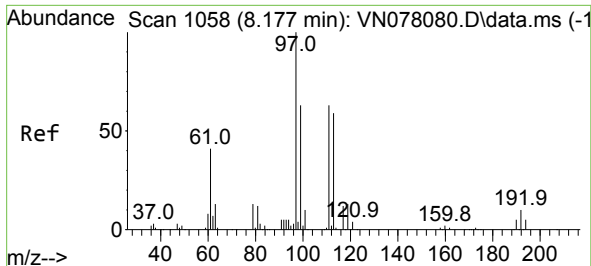
Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

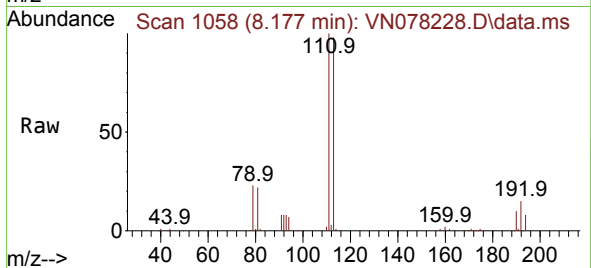
88 15.3 0.0 30.6



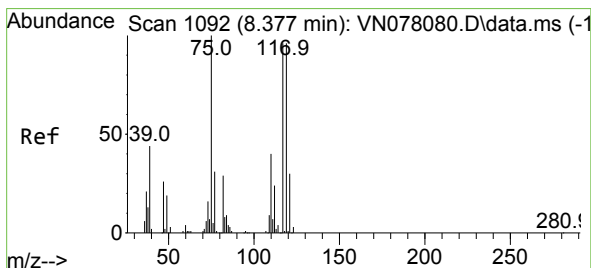
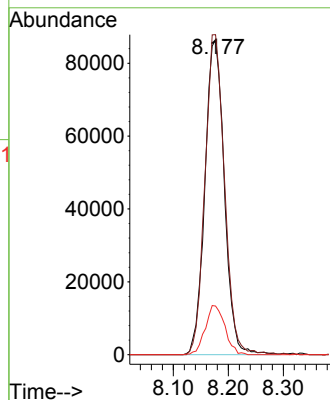
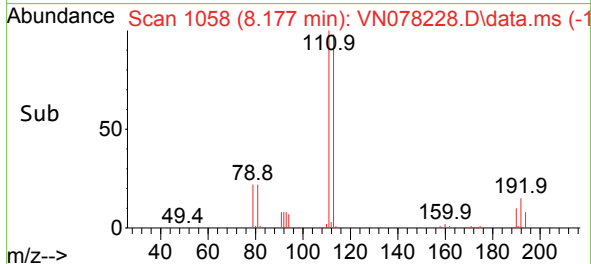


#35
Dibromofluoromethane
Concen: 54.223 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

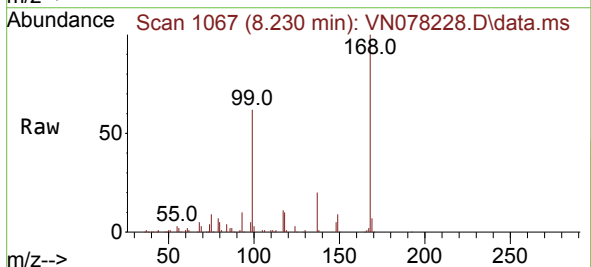
Instrument :
MSVOA_N
ClientSampleId :



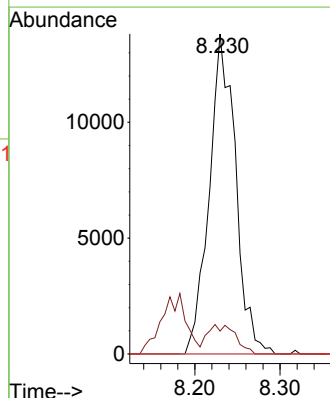
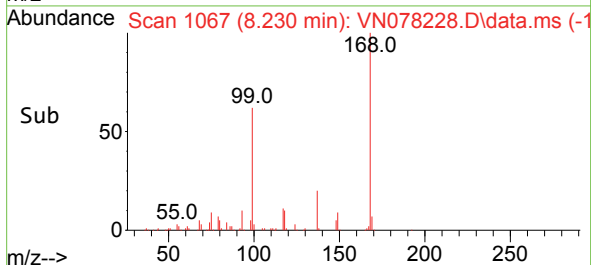
Tgt Ion:113 Resp: 212334
Ion Ratio Lower Upper
113 100
111 102.1 82.6 123.8
192 15.8 12.7 19.1

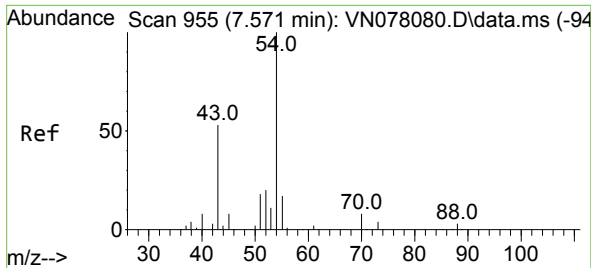


#36
1,1-Dichloropropene
Concen: 5.288 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08



Tgt Ion: 75 Resp: 29700
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.307 ug/l

RT: 7.506 min Scan# 94

Delta R.T. -0.065 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

ClientSampleId :

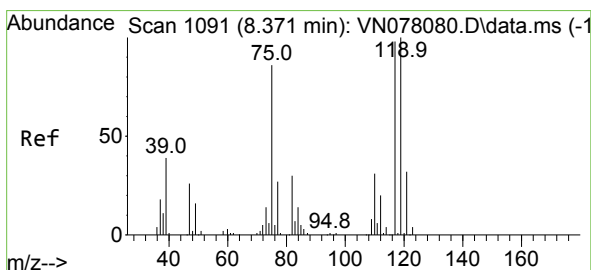
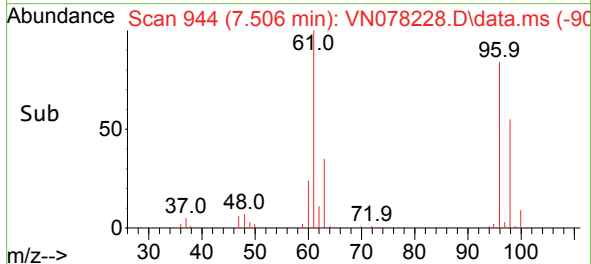
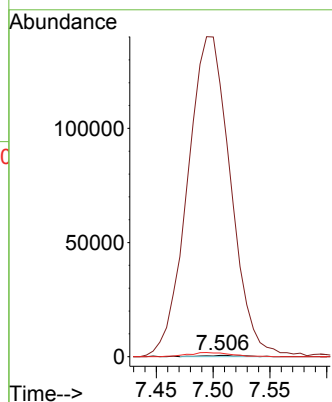
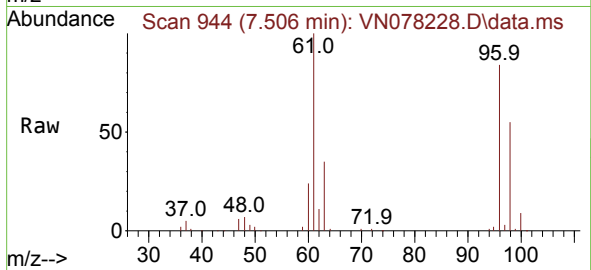
Tgt Ion: 43 Resp: 1345

Ion Ratio Lower Upper

43 100

61 27635.6 13.2 19.8#

70 357.3 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 6.139 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

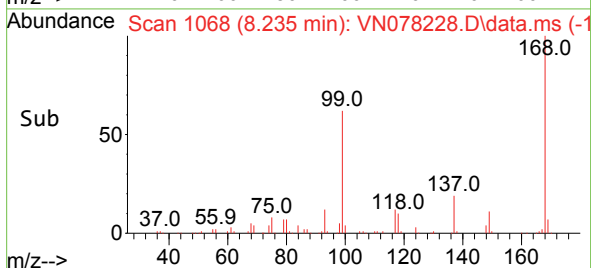
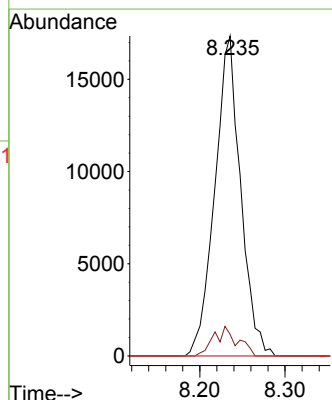
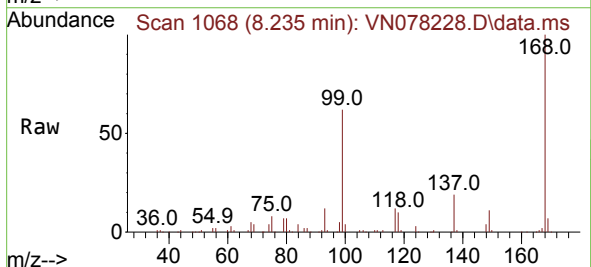
Tgt Ion: 117 Resp: 36410

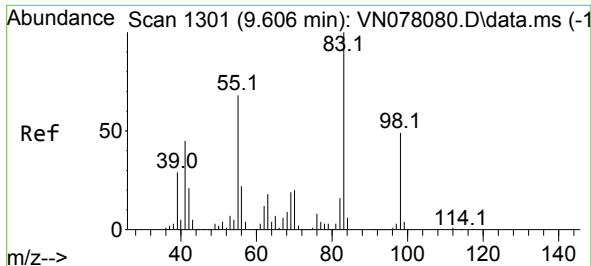
Ion Ratio Lower Upper

117 100

119 6.7 77.3 115.9#

121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.670 ug/l

RT: 9.365 min Scan# 11260

Delta R.T. -0.241 min

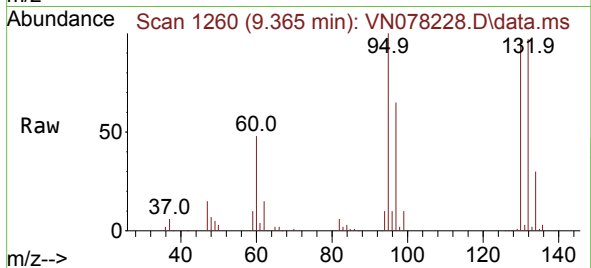
Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

ClientSampleId :



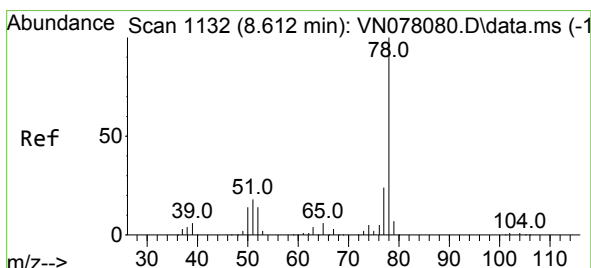
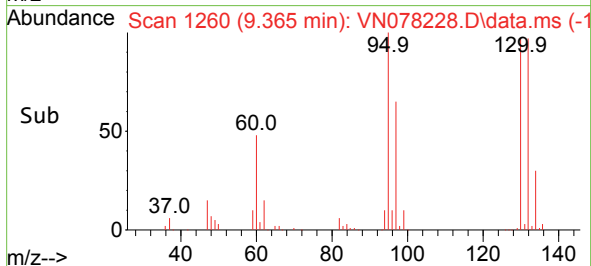
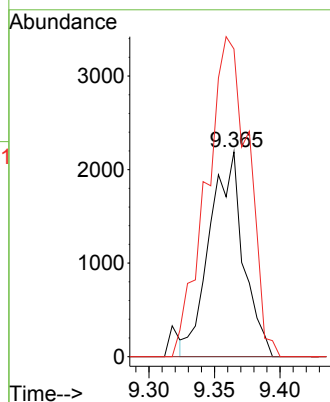
Tgt Ion: 83 Resp: 3903

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 150.3 40.6 61.0#



#40

Benzene

Concen: 0.342 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN078228.D

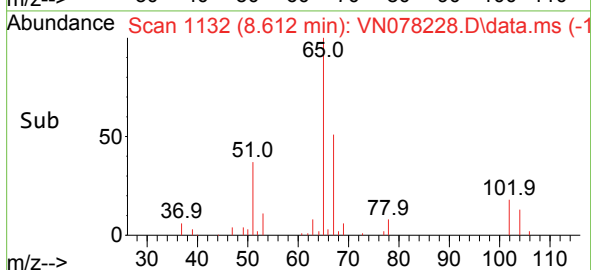
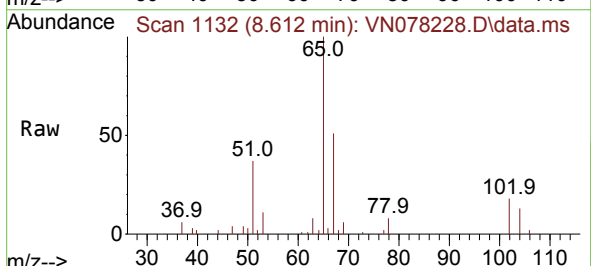
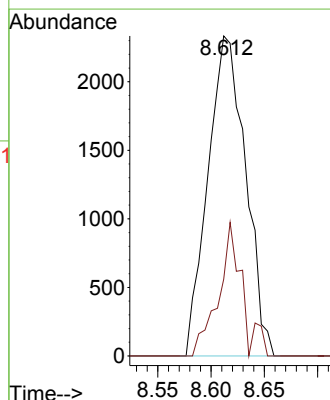
Acq: 15 Jun 2023 15:08

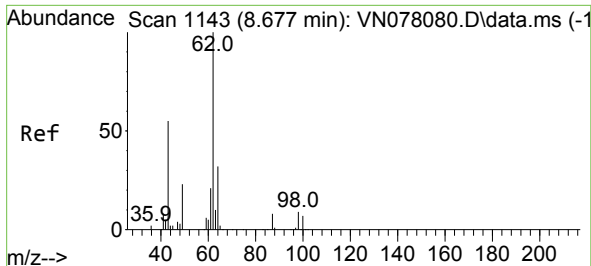
Tgt Ion: 78 Resp: 5736

Ion Ratio Lower Upper

78 100

77 24.0 19.0 28.6





#42

1,2-Dichloroethane

Concen: 5.896 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

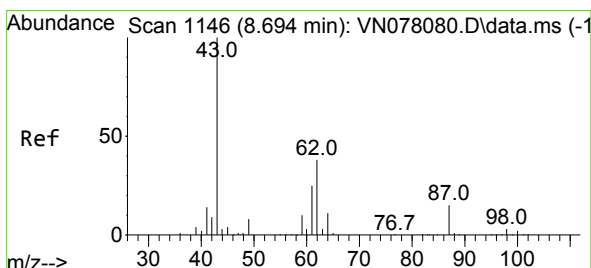
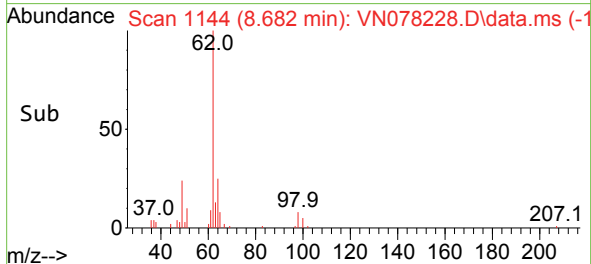
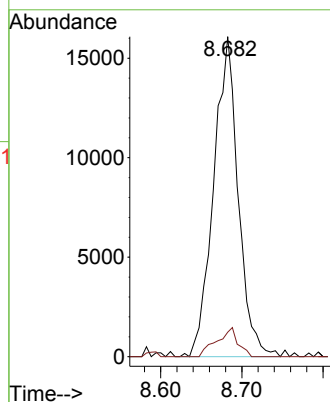
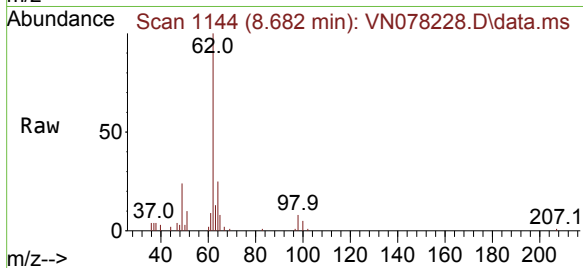
ClientSampleId :

Tgt Ion: 62 Resp: 33899

Ion Ratio Lower Upper

62 100

98 7.8 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.602 ug/l

RT: 8.765 min Scan# 1158

Delta R.T. 0.071 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

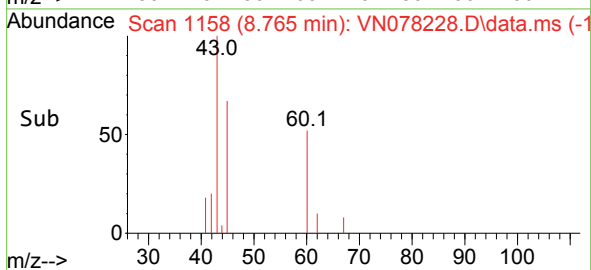
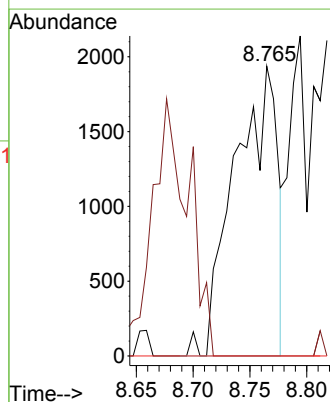
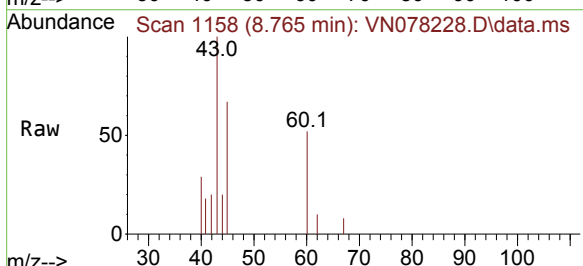
Tgt Ion: 43 Resp: 5050

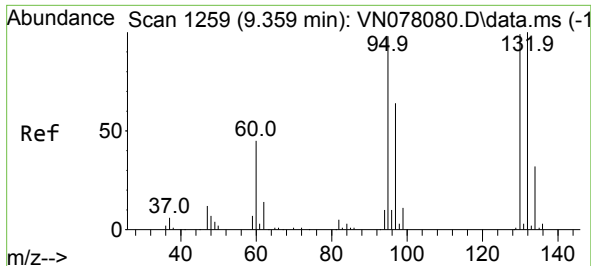
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

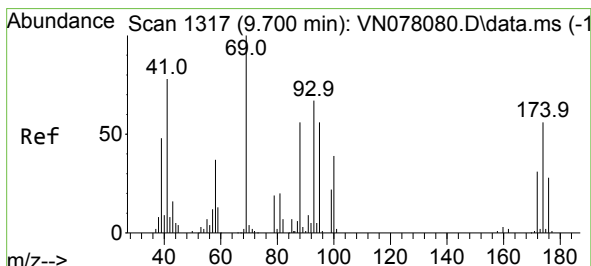
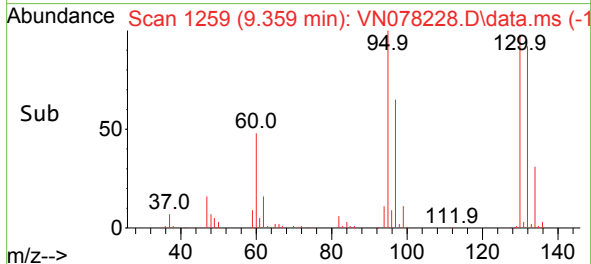
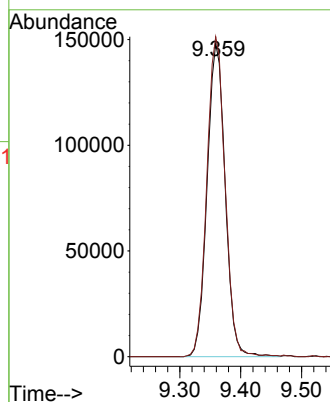
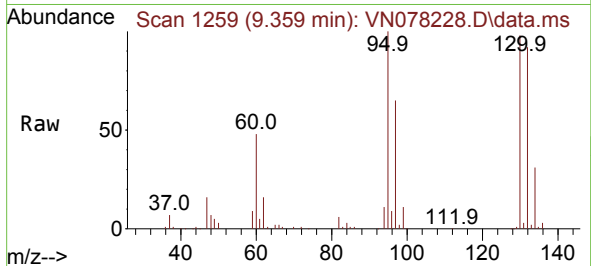




#44
Trichloroethene
Concen: 68.991 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

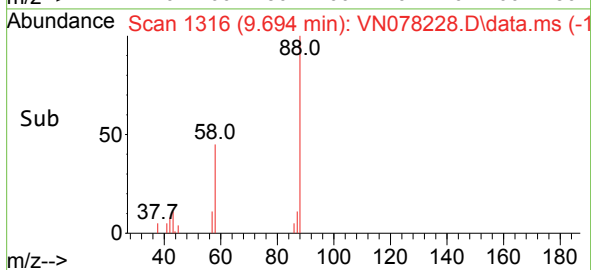
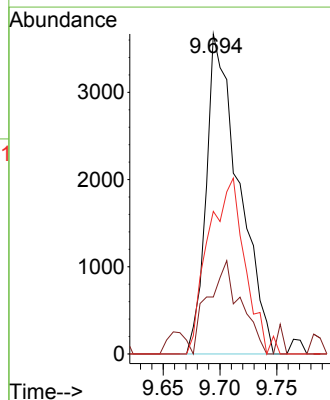
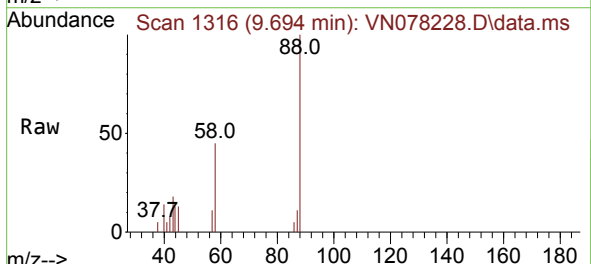
Instrument :
MSVOA_N
ClientSampleId :

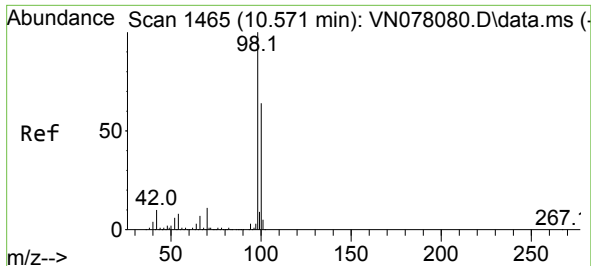
Tgt Ion:130 Resp: 305527
Ion Ratio Lower Upper
130 100
95 102.2 0.0 204.6



#49
1,4-Dioxane
Concen: 99.259 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 88 Resp: 7347
Ion Ratio Lower Upper
88 100
43 29.0 17.0 25.6#
58 61.7 47.0 70.4

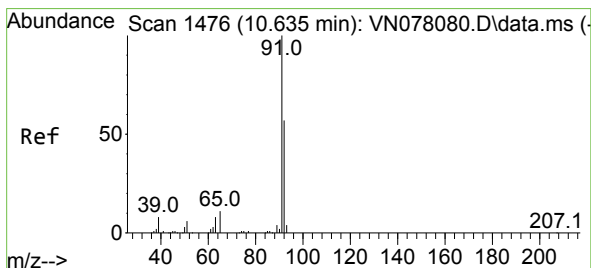
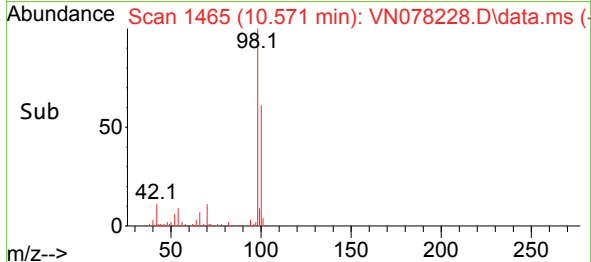
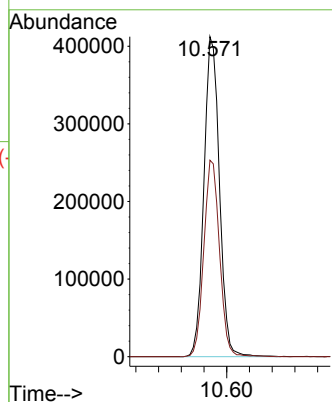
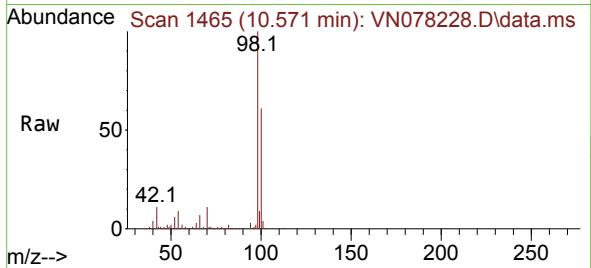




#50
Toluene-d8
Concen: 51.596 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

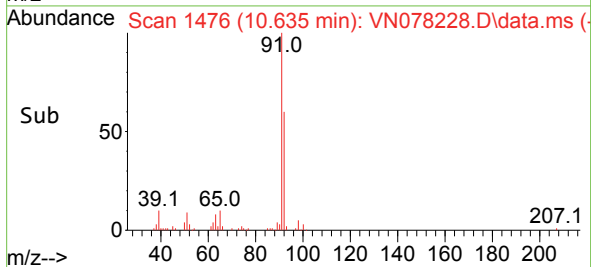
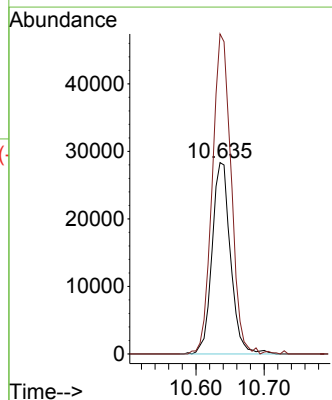
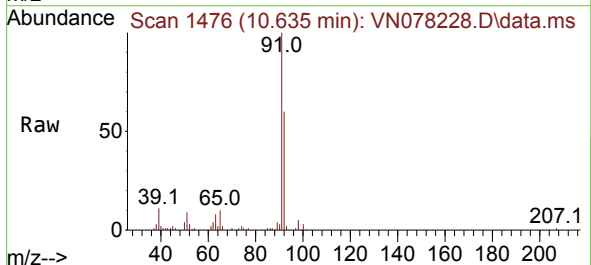
Instrument :
MSVOA_N
ClientSampleId :

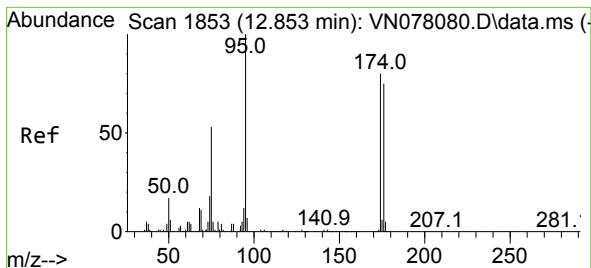
Tgt Ion: 98 Resp: 778913
Ion Ratio Lower Upper
98 100
100 62.2 52.0 78.0



#52
Toluene
Concen: 5.039 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 92 Resp: 53350
Ion Ratio Lower Upper
92 100
91 170.7 137.4 206.0

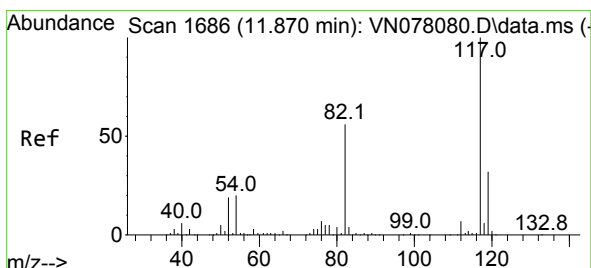
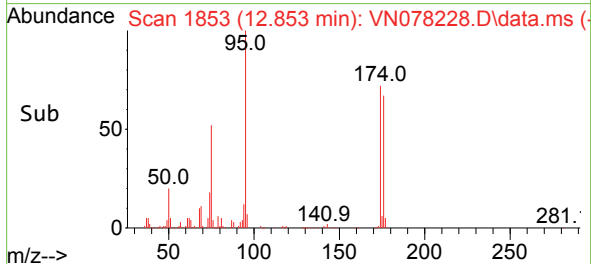
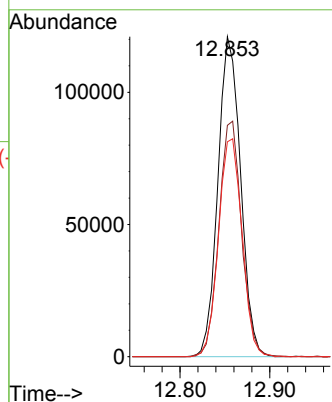
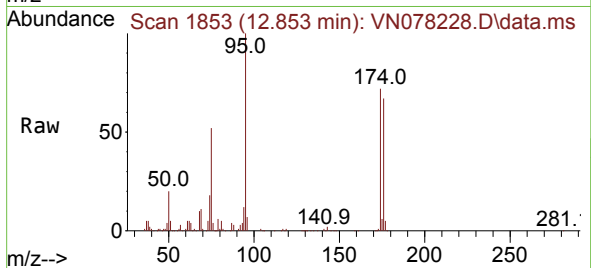




#62
4-Bromofluorobenzene
Concen: 45.272 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

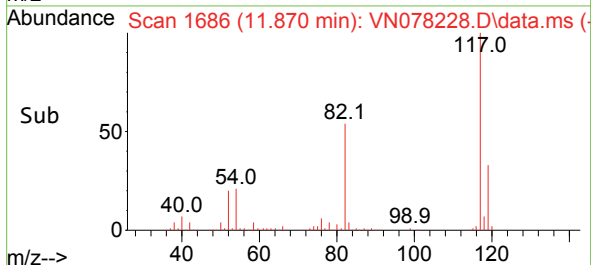
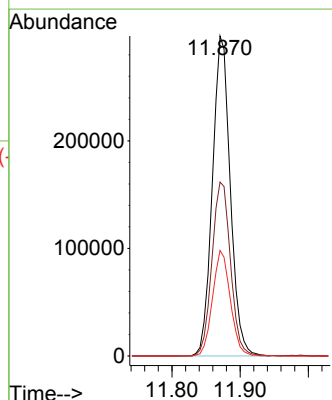
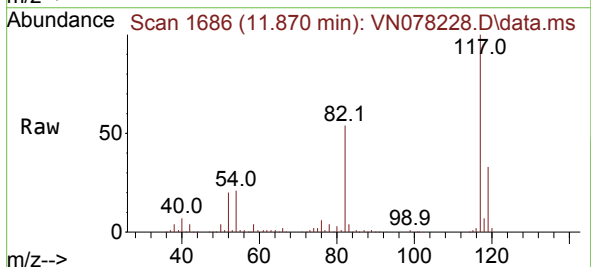
Instrument :
MSVOA_N
ClientSampleId :

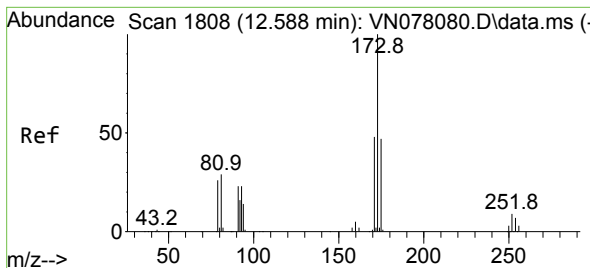
Tgt Ion: 95 Resp: 212467
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 70.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078228.D
Acq: 15 Jun 2023 15:08

Tgt Ion: 117 Resp: 543457
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 33.0 25.6 38.4





#71

Bromoform

Concen: 0.437 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.259 min

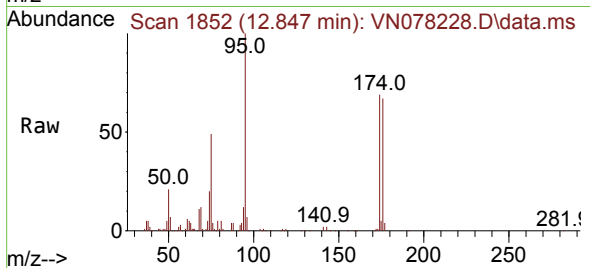
Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

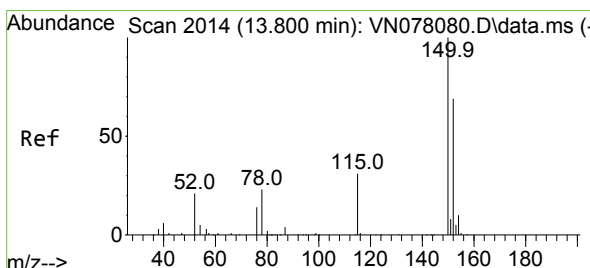
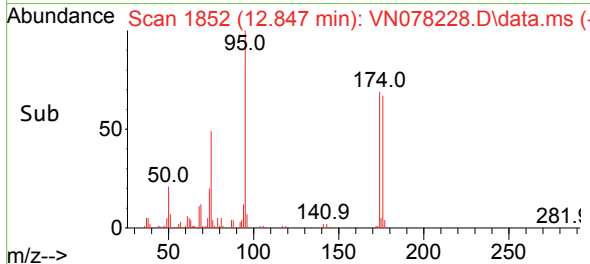
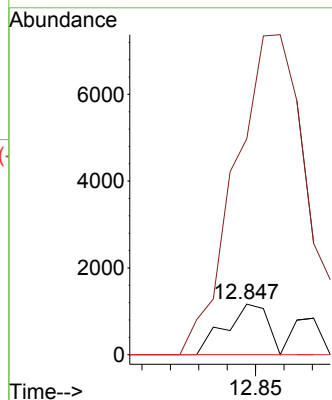
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	1207
Ion Ratio	Lower	Upper	
173	100		
175	931.7	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

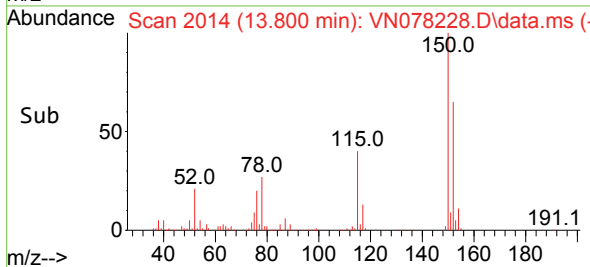
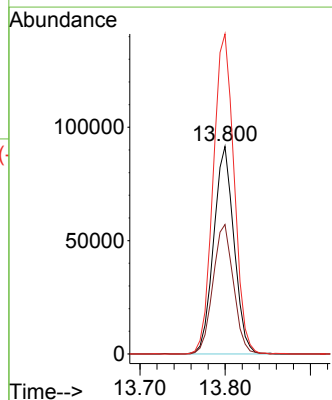
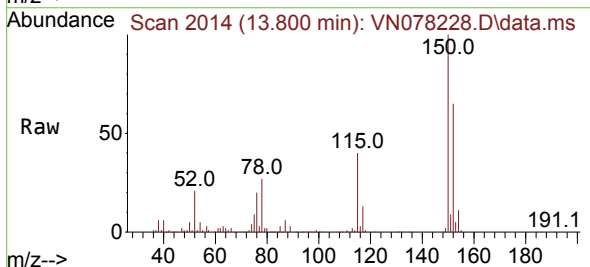
RT: 13.800 min Scan# 2014

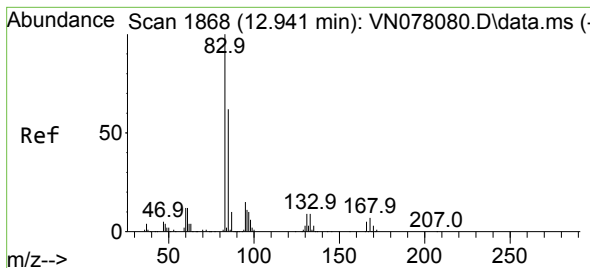
Delta R.T. 0.000 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Tgt Ion:	152	Resp:	151854
Ion Ratio	Lower	Upper	
152	100		
115	62.8	32.3	96.8
150	158.1	0.0	355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.853 min Scan# 1853

Delta R.T. -0.088 min

Lab File: VN078228.D

Acq: 15 Jun 2023 15:08

Instrument :

MSVOA_N

ClientSampleId :

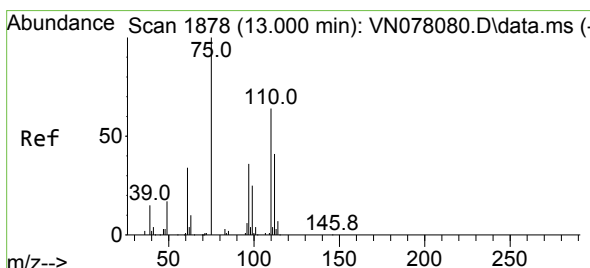
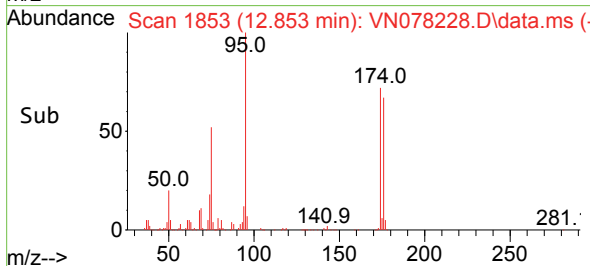
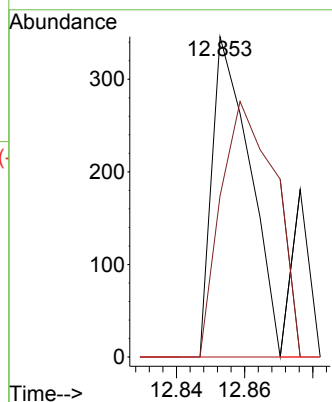
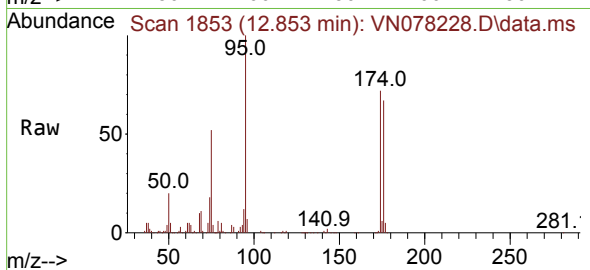
Tgt Ion: 83 Resp: 268

Ion Ratio Lower Upper

83 100

131 114.2 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 31.271 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078228.D

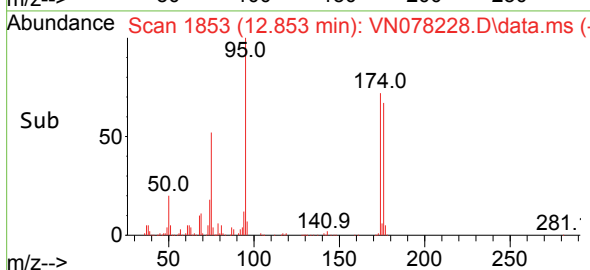
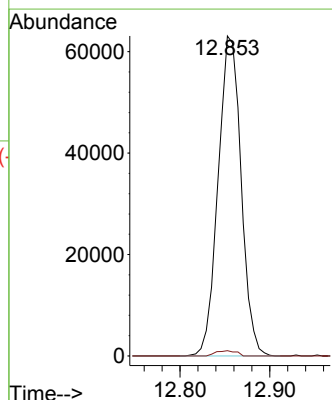
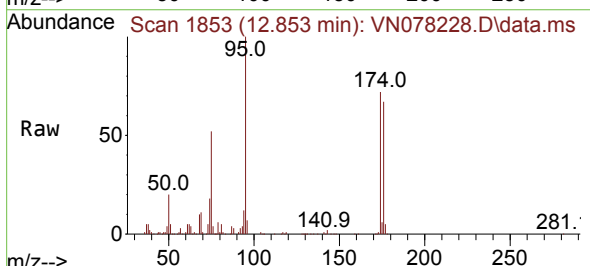
Acq: 15 Jun 2023 15:08

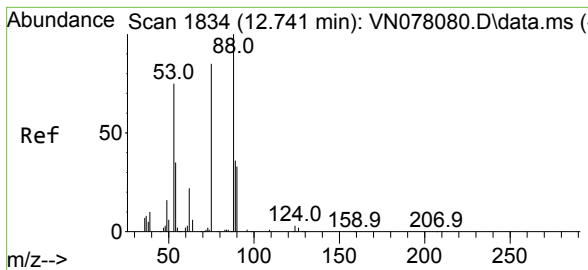
Tgt Ion: 75 Resp: 112260

Ion Ratio Lower Upper

75 100

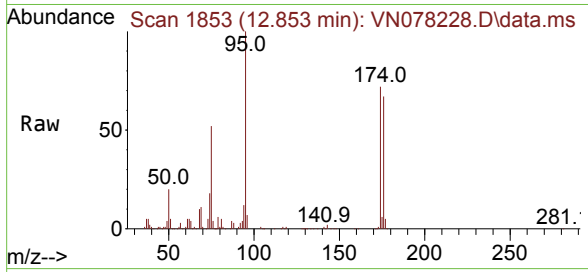
77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.075 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078228.D
 Acq: 15 Jun 2023 15:08

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 112260
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

