

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071923\
 Data File : VN078578.D
 Acq On : 19 Jul 2023 14:12
 Operator : JC\MD
 Sample : 03664-05 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1012

Quant Time: Jul 20 01:33:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

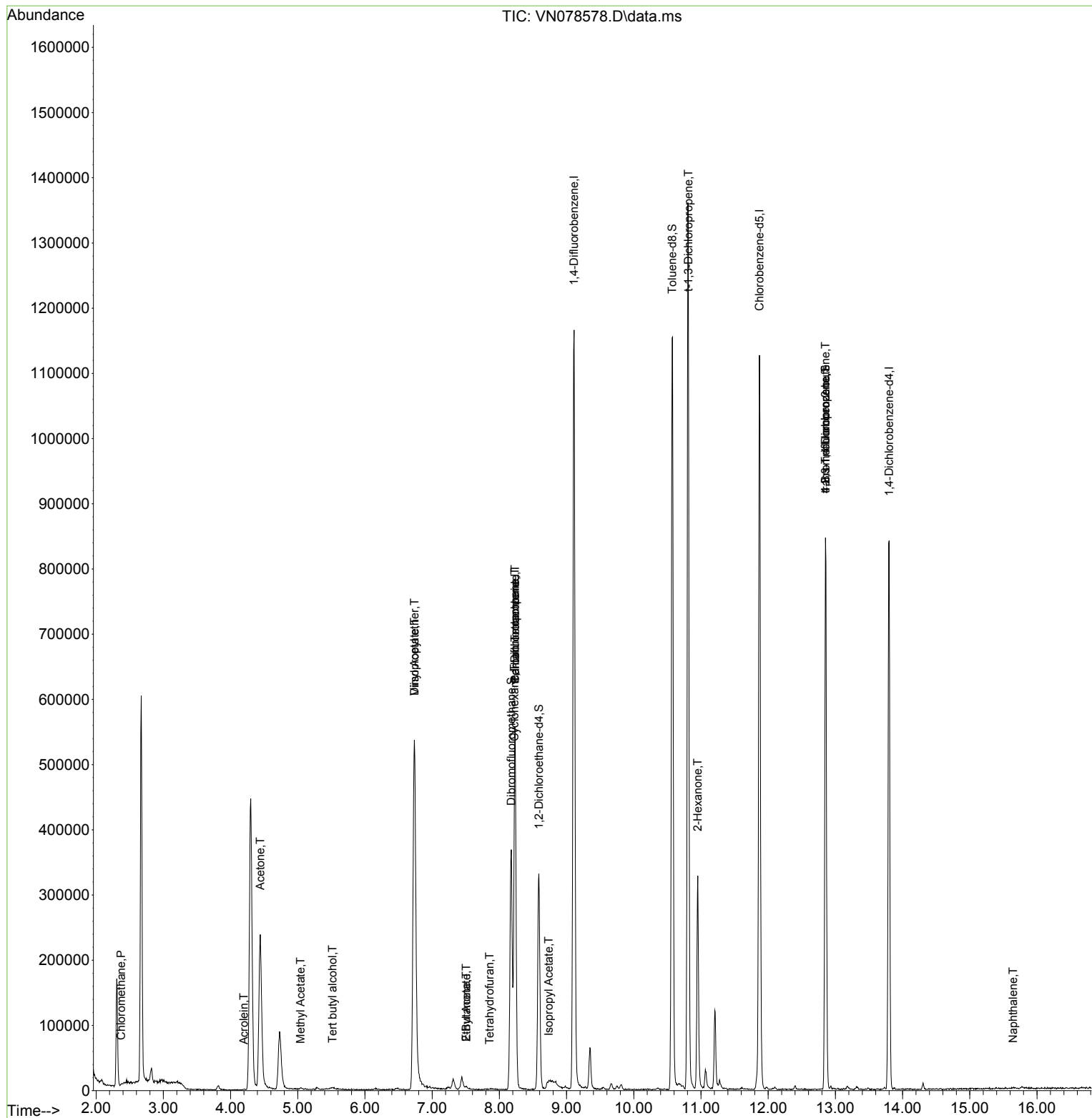
Internal Standards						
1) Pentafluorobenzene	8.235	168	412018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	749177	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	685010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	233469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	270031	48.887	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.780%		
35) Dibromofluoromethane	8.177	113	271936	53.471	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	106.940%		
50) Toluene-d8	10.571	98	852271	44.361	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	88.720%		
62) 4-Bromofluorobenzene	12.853	95	293388	49.578	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.160%		
Target Compounds						
						Qvalue
3) Chloromethane	2.371	50	1317	0.240	ug/l	90
5) Bromomethane	2.971	94	3510	Below Cal		86
6) Chloroethane	3.095	64	485	Below Cal	#	43
11) Tert butyl alcohol	5.518	59	1029	1.208	ug/l #	72
13) Acrolein	4.200	56	1665	1.987	ug/l	98
16) Acetone	4.442	43	432067	251.117	ug/l	98
18) Methyl Acetate	5.042	43	2656	0.365	ug/l #	78
20) Methylene Chloride	5.289	84	1749	Below Cal	#	53
22) Diisopropyl ether	6.736	45	43136	3.243	ug/l #	1
23) Vinyl Acetate	6.736	43	105476	12.473	ug/l #	62
25) 2-Butanone	7.506	43	7953	2.936	ug/l #	85
29) Tetrahydrofuran	7.853	42	914	0.514	ug/l #	24
31) Cyclohexane	8.224	56	10090	1.352	ug/l #	42
36) 1,1-Dichloropropene	8.230	75	33030	4.498	ug/l #	51
37) Ethyl Acetate	7.506	43	7953	1.299	ug/l #	63
38) Carbon Tetrachloride	8.235	117	41713	5.227	ug/l #	16
43) Isopropyl Acetate	8.735	43	10233	1.015	ug/l #	49
53) t-1,3-Dichloropropene	10.812	75	2908	0.365	ug/l #	52
59) 2-Hexanone	10.953	43	26370	6.190	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	109	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	155911	27.628	ug/l #	1
77) Bromobenzene	12.988	156	74	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	155911	72.601	ug/l #	15
90) Hexachloroethane	14.335	117	91	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.812	75	73	Below Cal	#	4
94) Hexachlorobutadiene	15.506	225	262	Below Cal	#	38
95) Naphthalene	15.647	128	2184	0.239	ug/l #	79

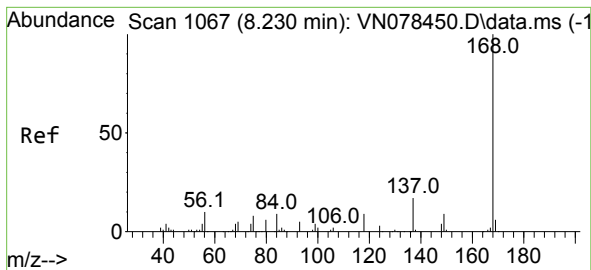
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

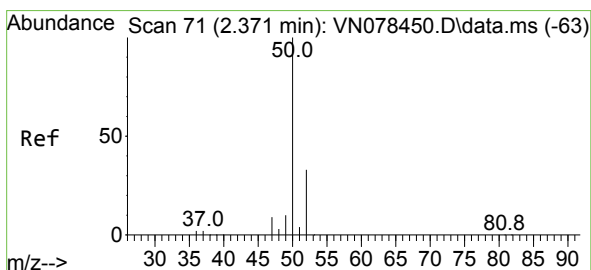
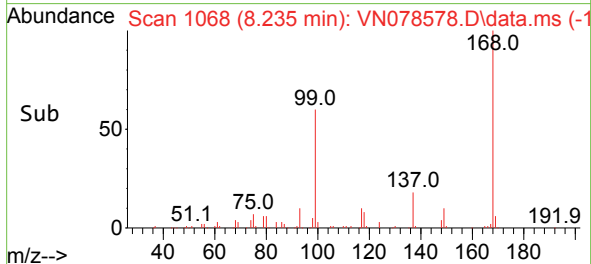
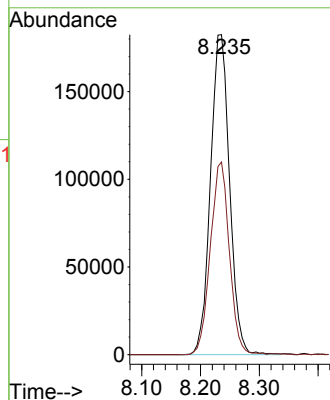
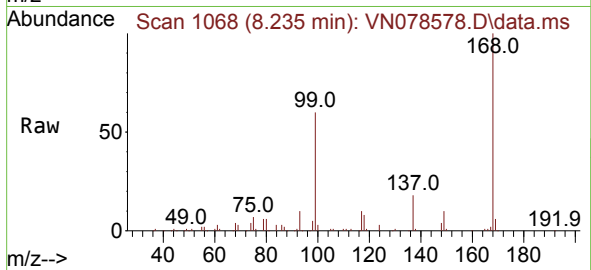
AUD-1012

Tgt Ion:168 Resp: 412018

Ion Ratio Lower Upper

168 100

99 60.2 53.0 79.6



#3

Chloromethane

Concen: 0.240 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078578.D

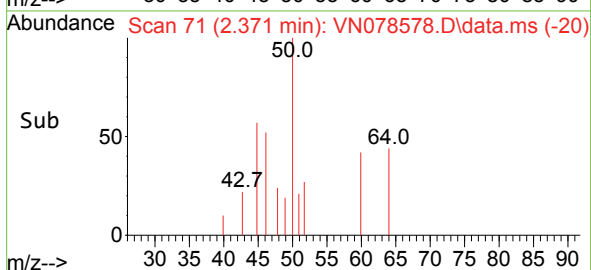
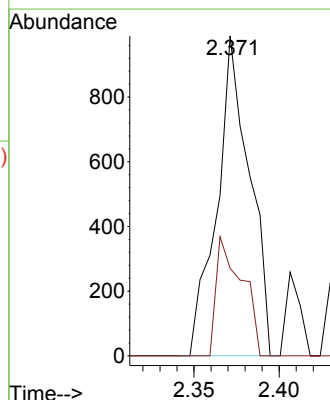
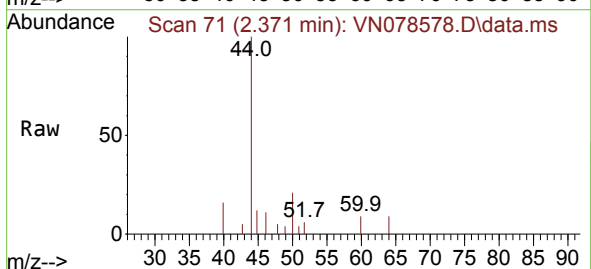
Acq: 19 Jul 2023 14:12

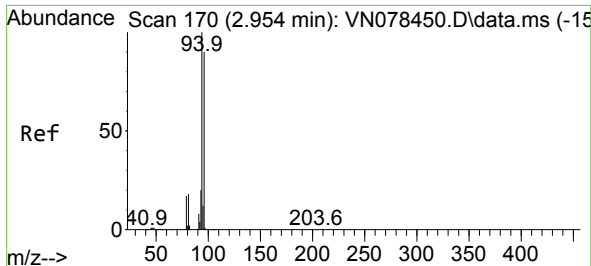
Tgt Ion: 50 Resp: 1317

Ion Ratio Lower Upper

50 100

52 27.4 26.5 39.7

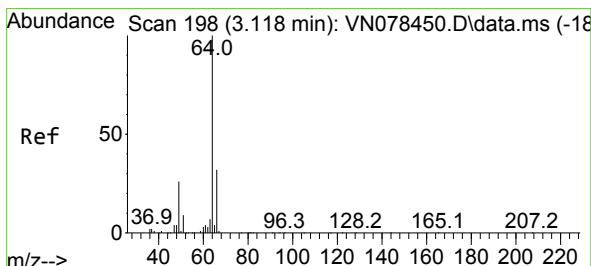
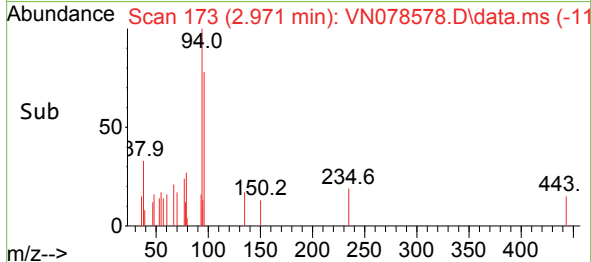
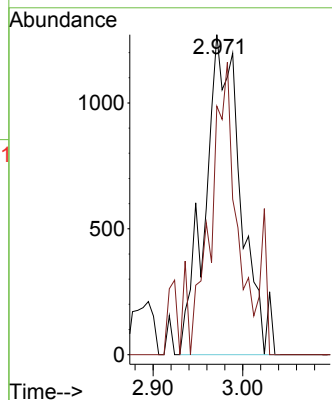
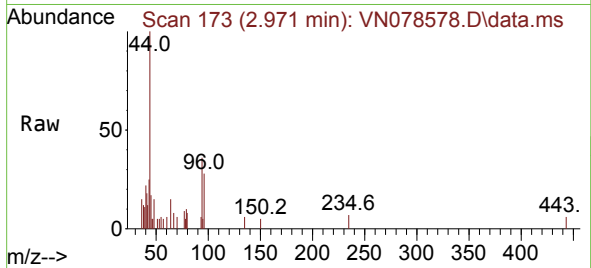




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

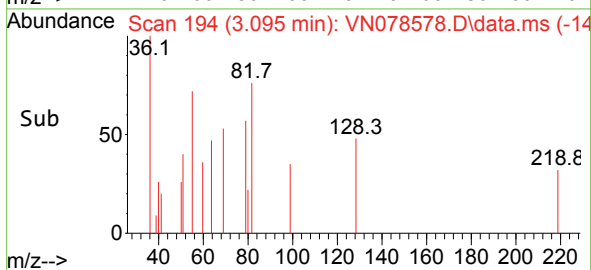
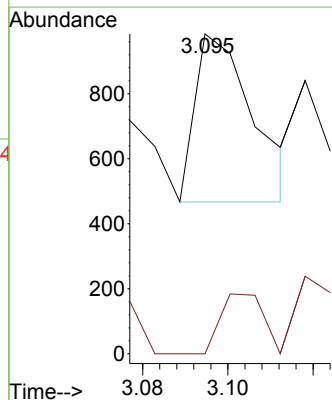
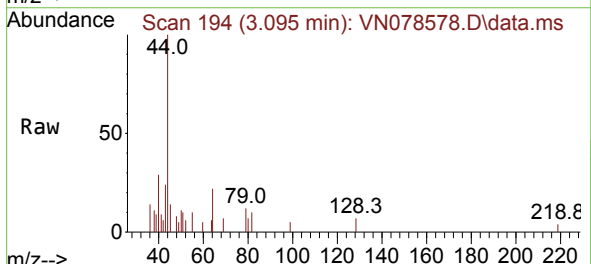
Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

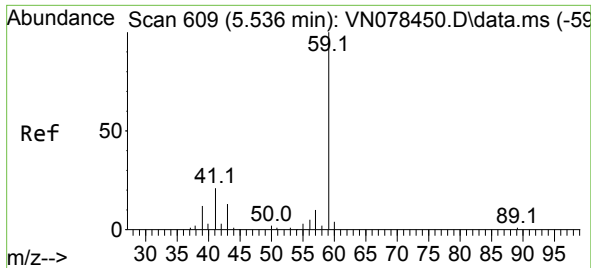
Tgt Ion: 94 Resp: 3510
Ion Ratio Lower Upper
94 100
96 77.7 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.095 min Scan# 194
Delta R.T. -0.023 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 64 Resp: 485
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

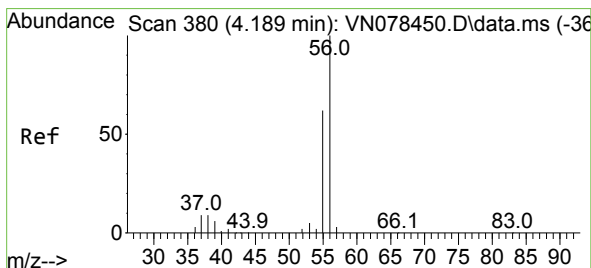
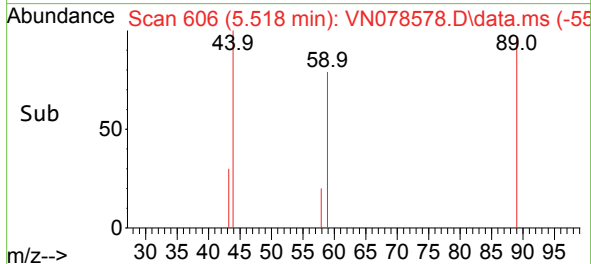
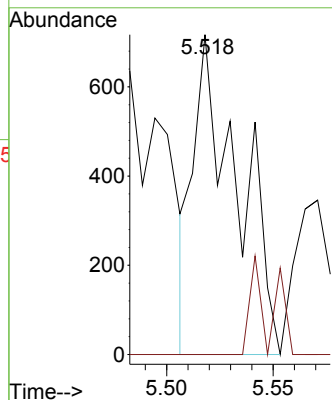
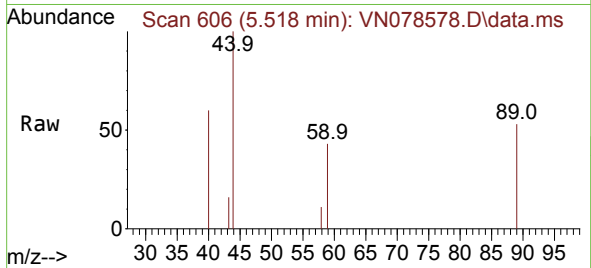




#11
Tert butyl alcohol
Concen: 1.208 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

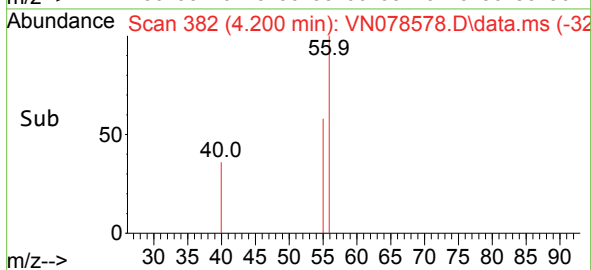
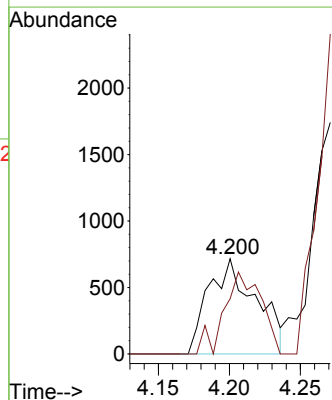
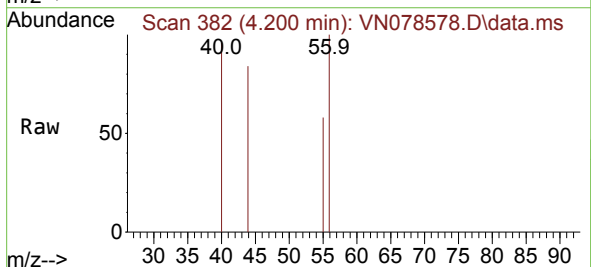
Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

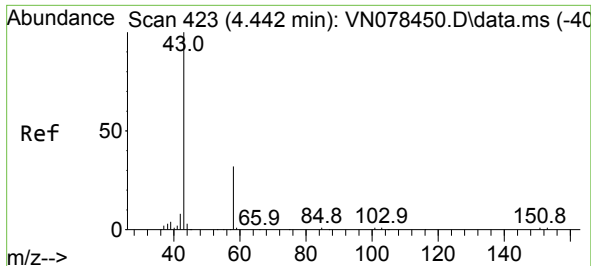
Tgt Ion: 59 Resp: 1029
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 1.987 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.011 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 56 Resp: 1665
Ion Ratio Lower Upper
56 100
55 66.8 54.5 81.7





#16

Acetone

Concen: 251.117 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

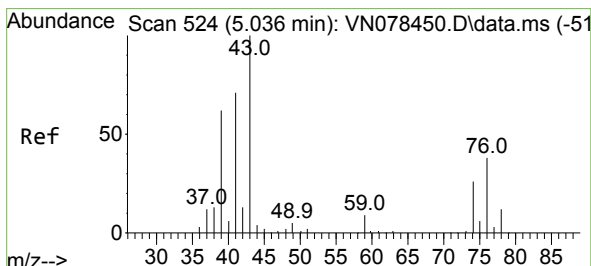
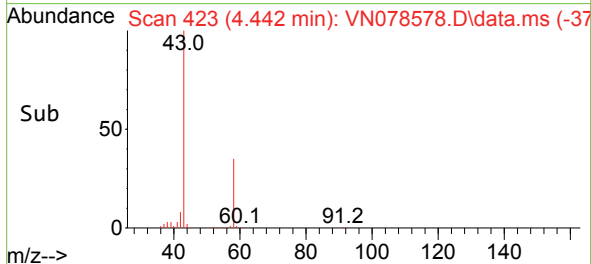
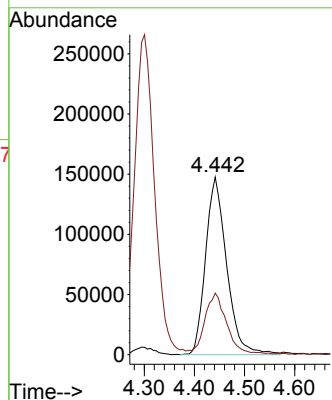
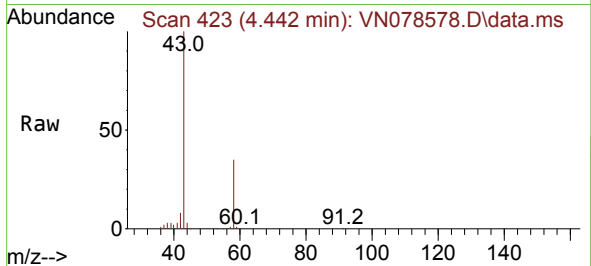
AUD-1012

Tgt Ion: 43 Resp: 432067

Ion Ratio Lower Upper

43 100

58 34.1 28.0 42.0



#18

Methyl Acetate

Concen: 0.365 ug/l

RT: 5.042 min Scan# 525

Delta R.T. 0.006 min

Lab File: VN078578.D

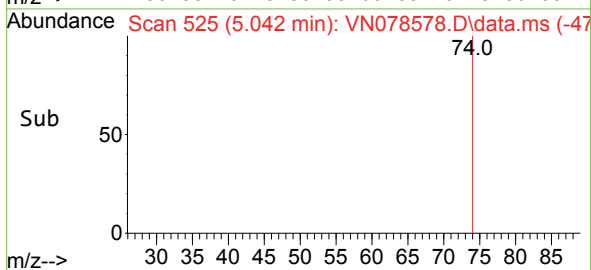
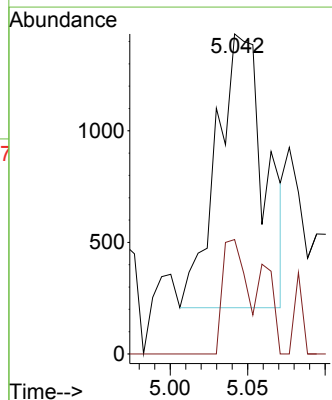
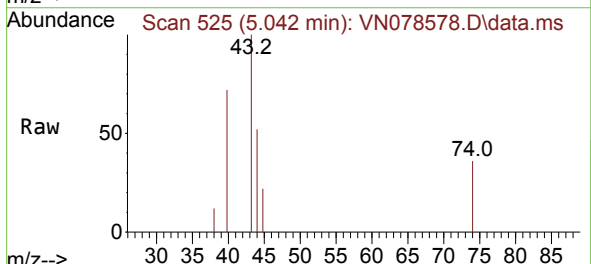
Acq: 19 Jul 2023 14:12

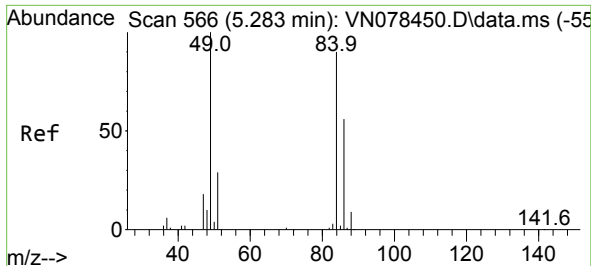
Tgt Ion: 43 Resp: 2656

Ion Ratio Lower Upper

43 100

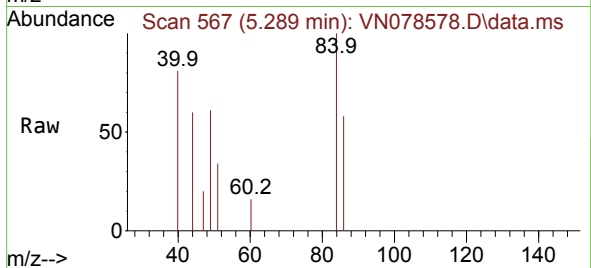
74 20.6 26.2 39.4#





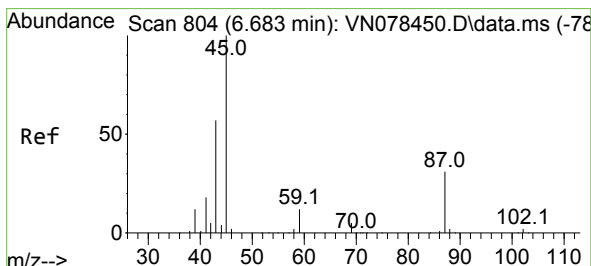
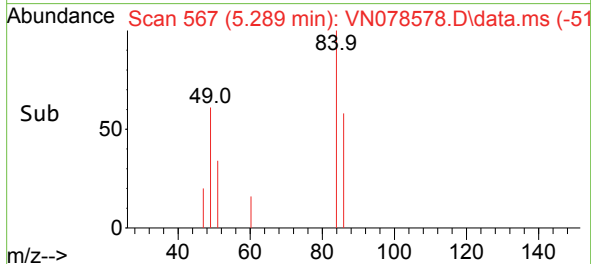
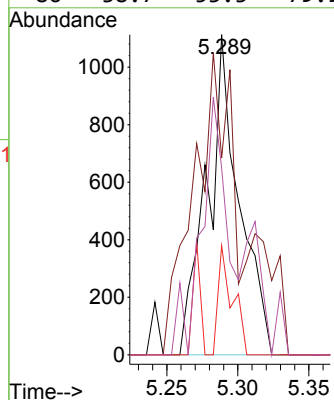
#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Instrument :
MSVOA_N
ClientSampleId :
AUD-1012



Tgt Ion: 84 Resp: 1749

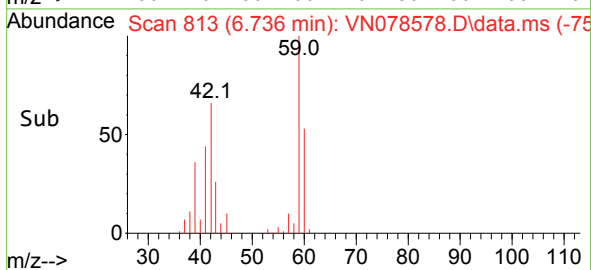
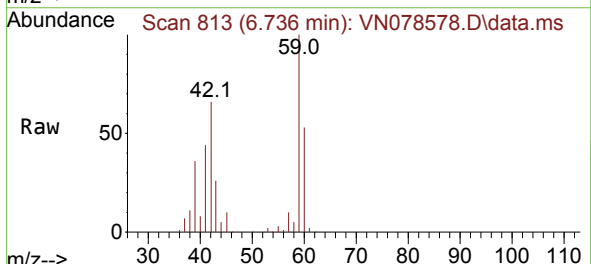
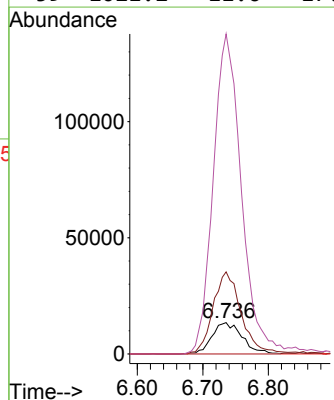
Ion	Ratio	Lower	Upper
84	100		
49	30.5	79.7	119.5#
51	34.1	25.2	37.8
86	38.7	53.3	79.9#

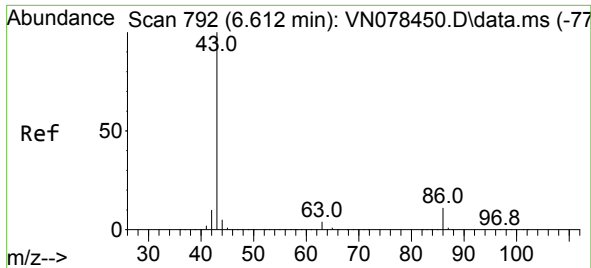


#22
Diisopropyl ether
Concen: 3.243 ug/l
RT: 6.736 min Scan# 813
Delta R.T. 0.053 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 45 Resp: 43136

Ion	Ratio	Lower	Upper
45	100		
43	261.9	45.5	68.3#
87	0.0	31.8	47.8#
59	1021.2	11.6	17.4#

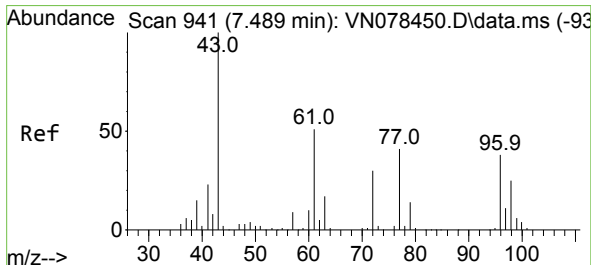
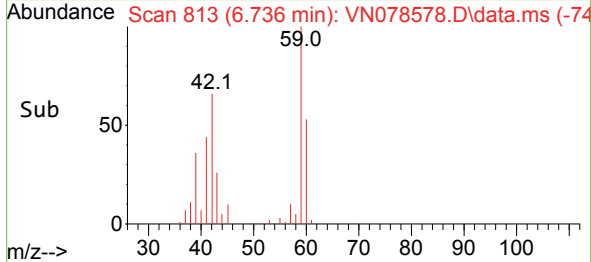
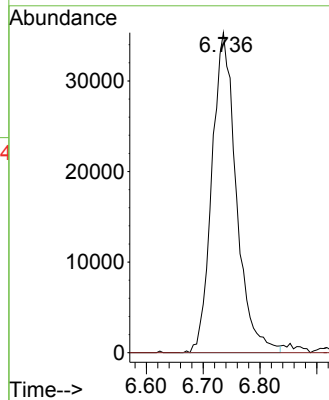
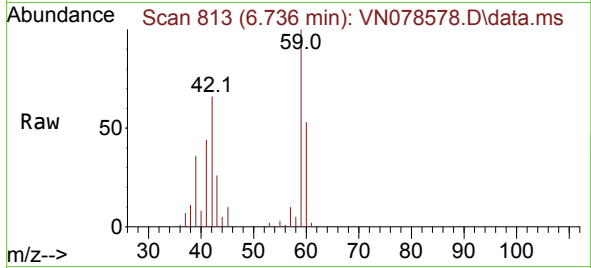




#23
 Vinyl Acetate
 Concen: 12.473 ug/l
 RT: 6.736 min Scan# 813
 Delta R.T. 0.124 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

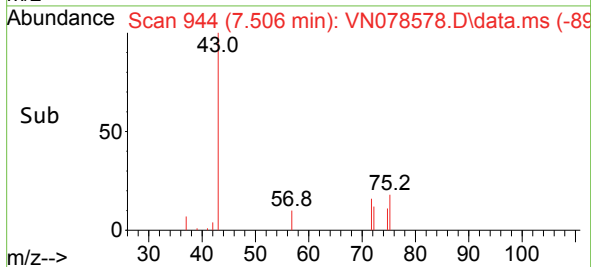
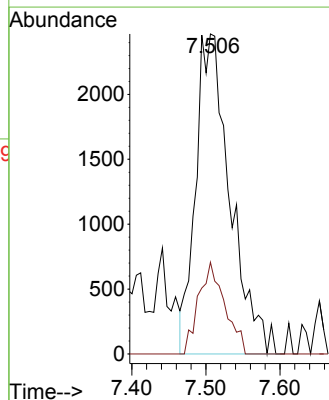
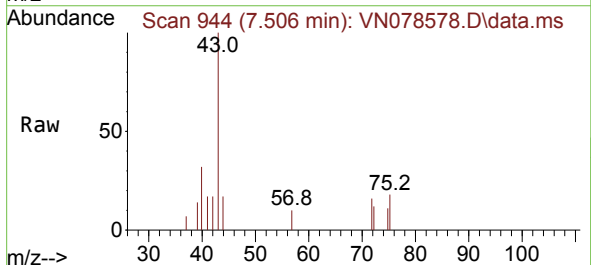
Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1012

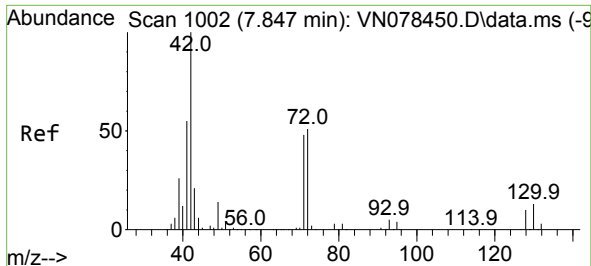
Tgt Ion: 43 Resp: 105476
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 2.936 ug/l
 RT: 7.506 min Scan# 944
 Delta R.T. 0.017 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

Tgt Ion: 43 Resp: 7953
 Ion Ratio Lower Upper
 43 100
 72 28.7 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.514 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

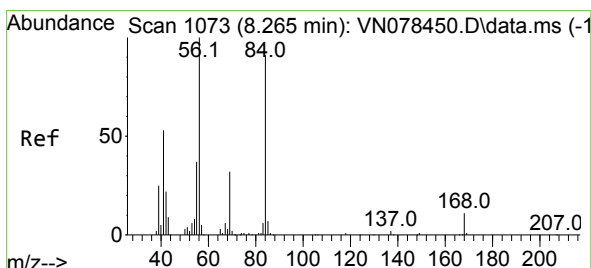
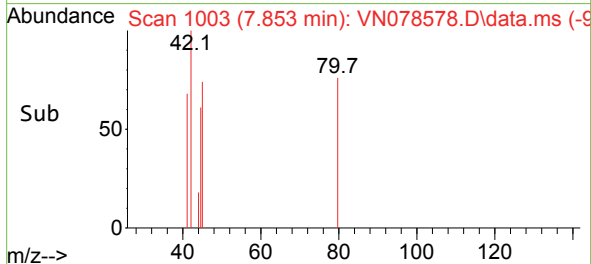
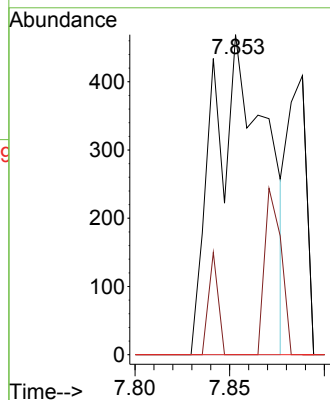
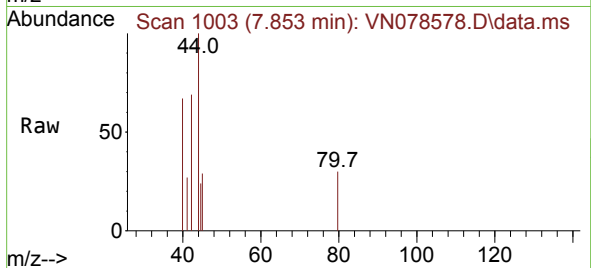
Instrument :

MSVOA_N

ClientSampleId :

AUD-1012

Tgt Ion: 42	Resp:	914
Ion	Ratio	Lower Upper
42	100	
72	5.8	49.8 74.6#
71	0.0	47.4 71.2#



#31

Cyclohexane

Concen: 1.352 ug/l

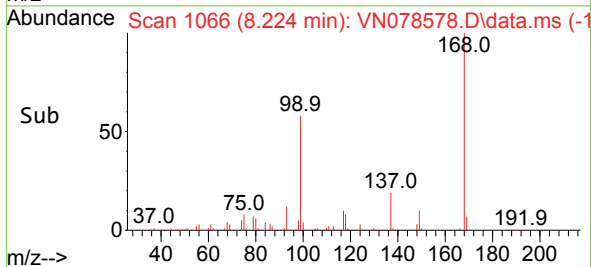
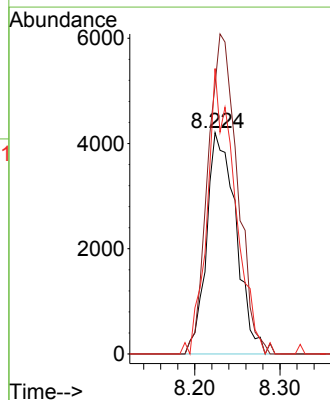
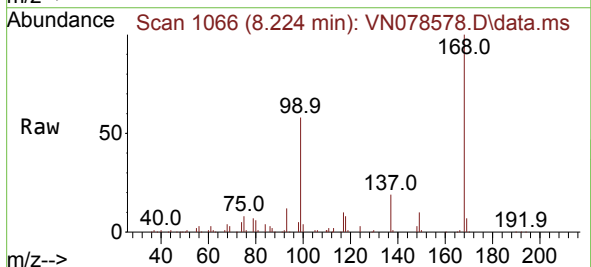
RT: 8.224 min Scan# 1066

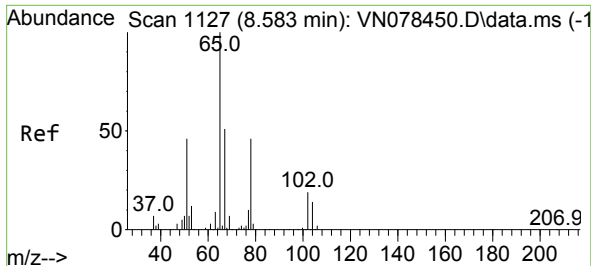
Delta R.T. -0.041 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Tgt Ion: 56	Resp:	10090
Ion	Ratio	Lower Upper
56	100	
69	121.7	26.8 40.2#
84	129.0	81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.887 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

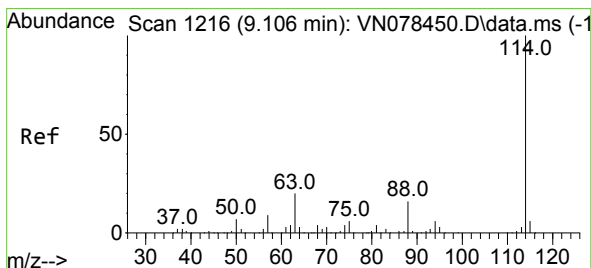
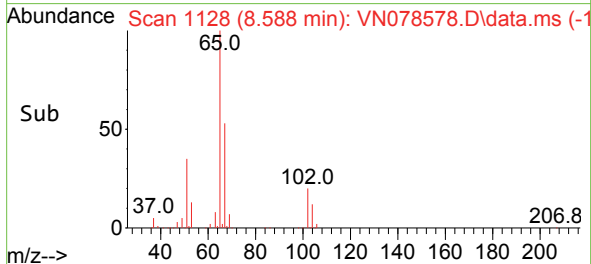
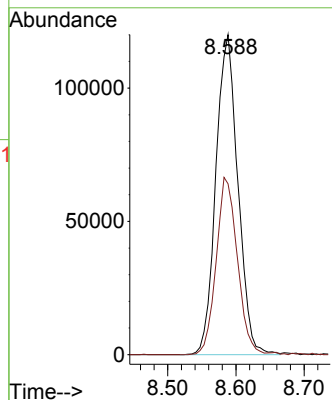
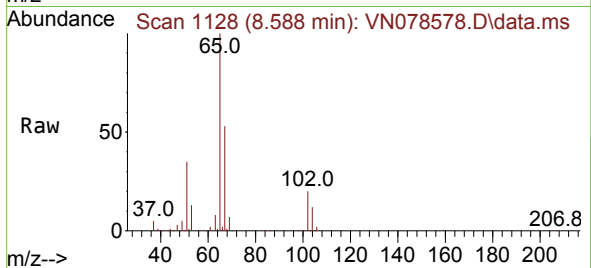
AUD-1012

Tgt Ion: 65 Resp: 270031

Ion Ratio Lower Upper

65 100

67 53.3 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: VN078578.D

Acq: 19 Jul 2023 14:12

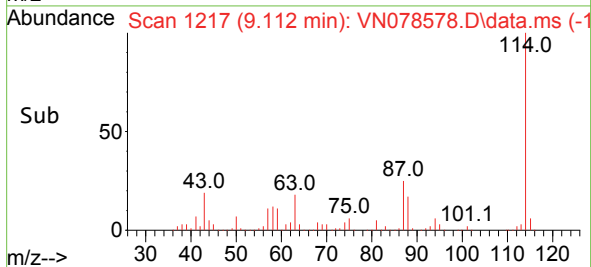
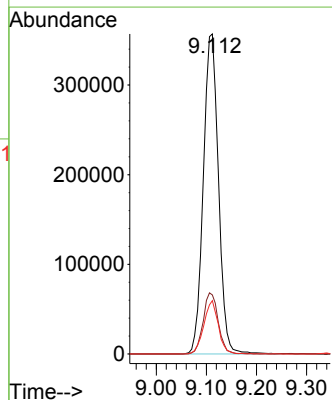
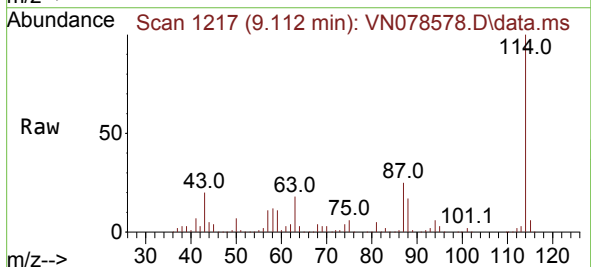
Tgt Ion: 114 Resp: 749177

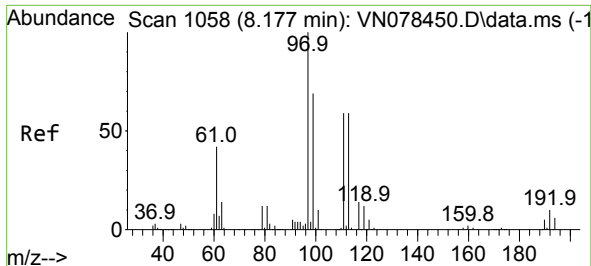
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

88 16.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.471 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

AUD-1012

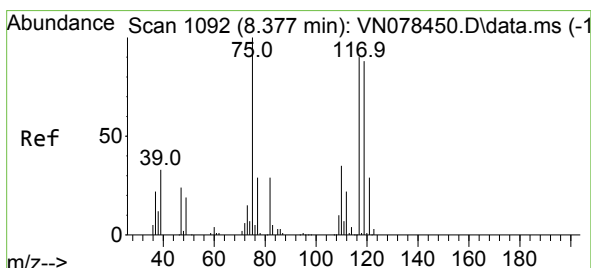
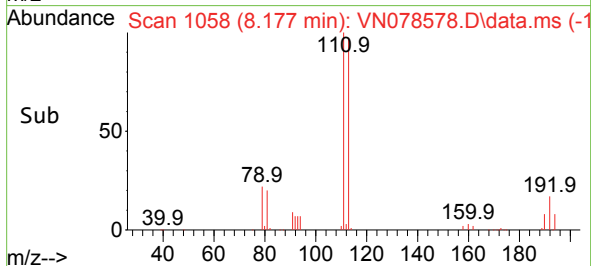
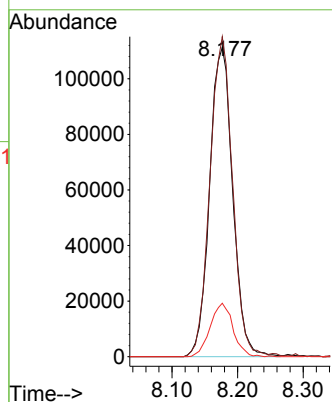
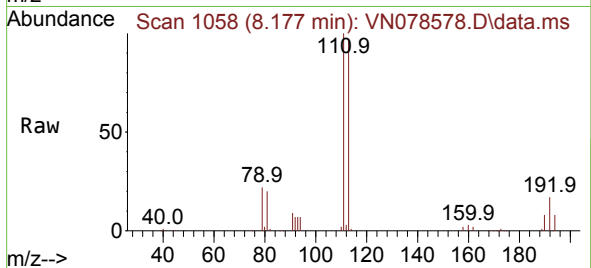
Tgt Ion:113 Resp: 271936

Ion Ratio Lower Upper

113 100

111 101.2 82.6 123.8

192 17.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.498 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

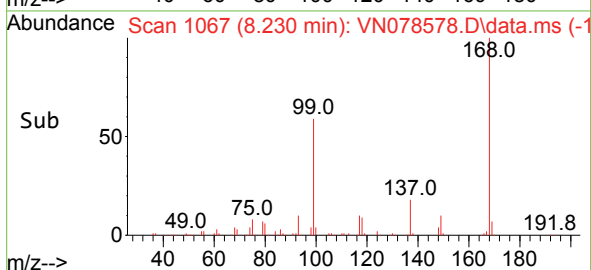
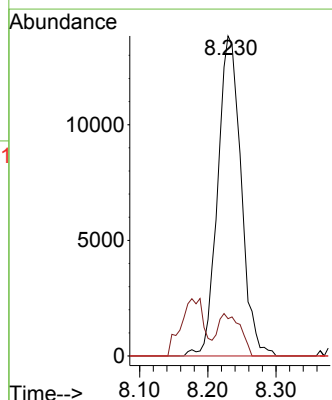
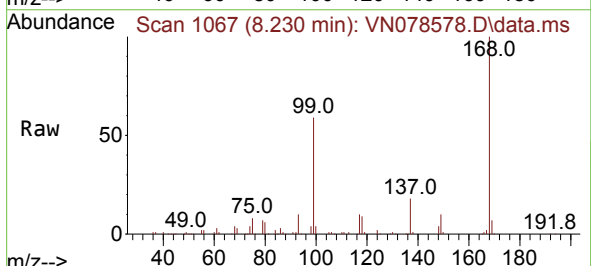
Tgt Ion: 75 Resp: 33030

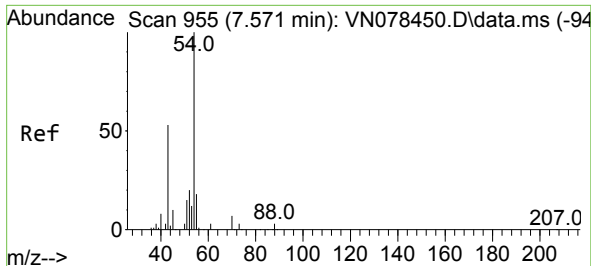
Ion Ratio Lower Upper

75 100

110 12.6 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.299 ug/l

RT: 7.506 min Scan# 94

Delta R.T. -0.065 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

AUD-1012

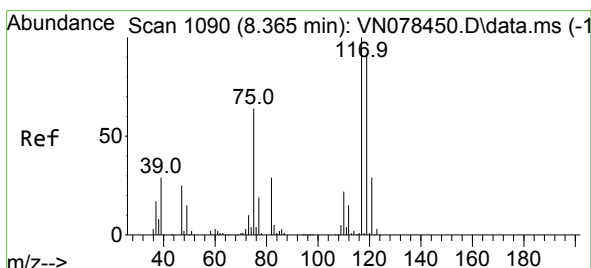
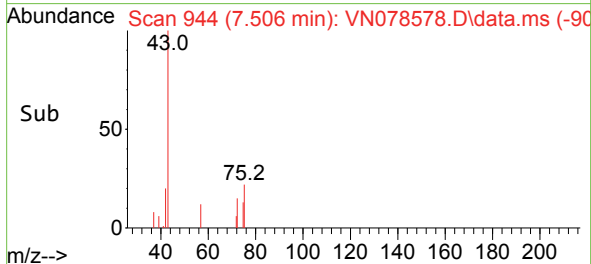
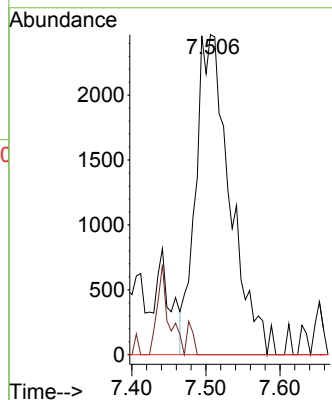
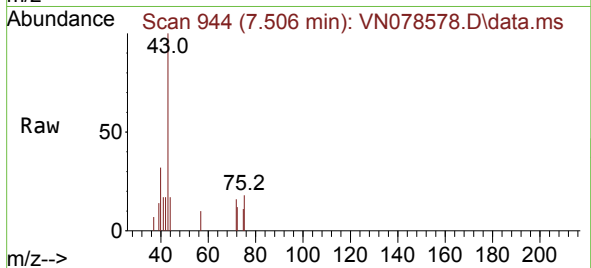
Tgt Ion: 43 Resp: 7953

Ion Ratio Lower Upper

43 100

61 0.0 13.2 19.8#

70 0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.227 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

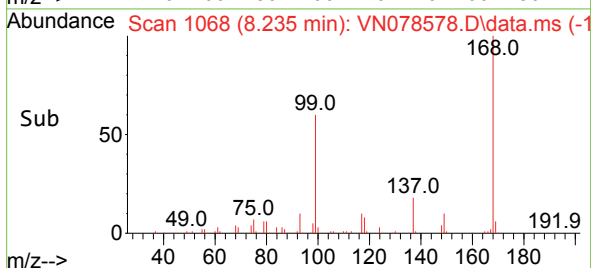
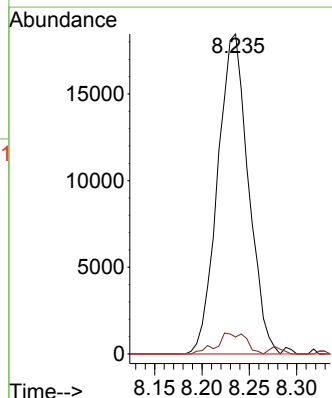
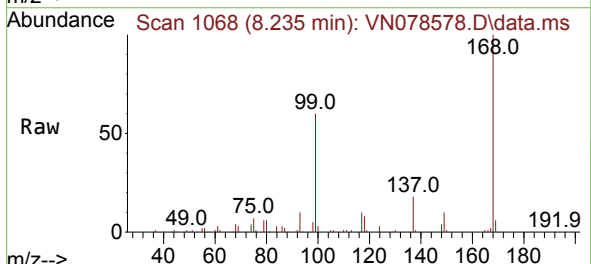
Tgt Ion: 117 Resp: 41713

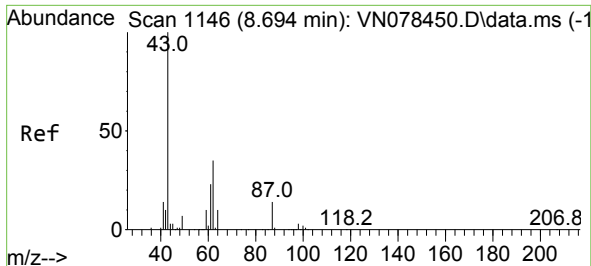
Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

121 0.0 23.3 34.9#

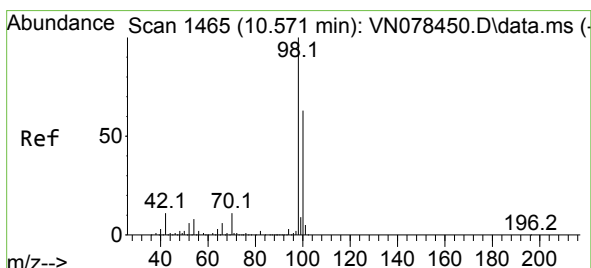
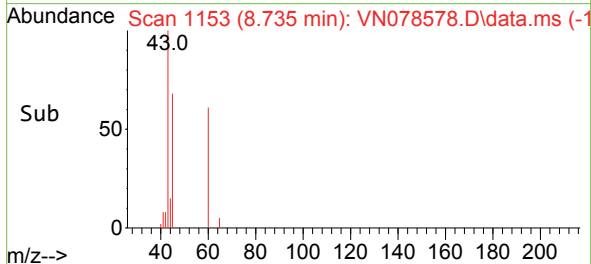
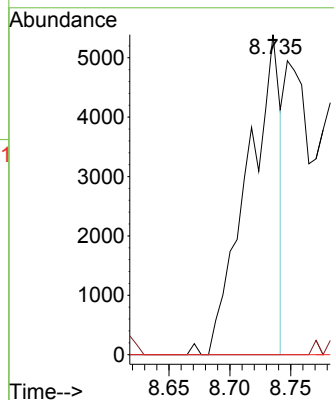
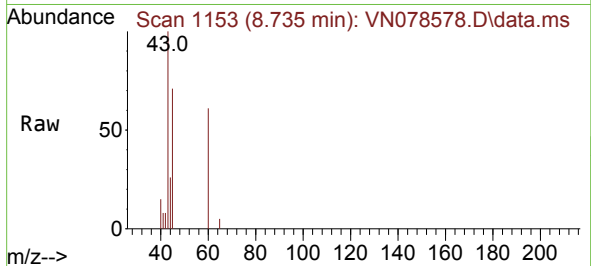




#43
Isopropyl Acetate
Concen: 1.015 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

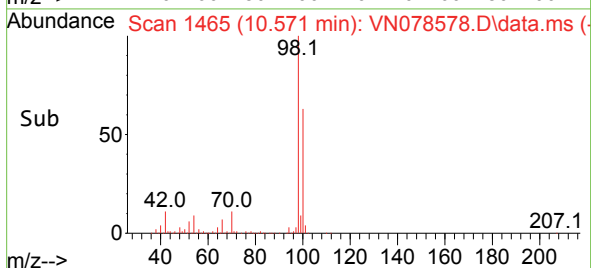
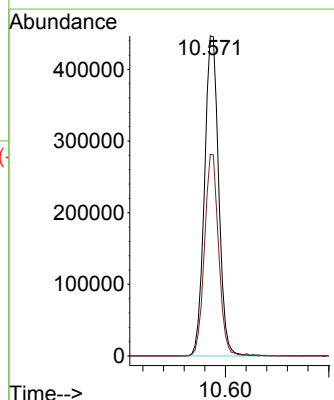
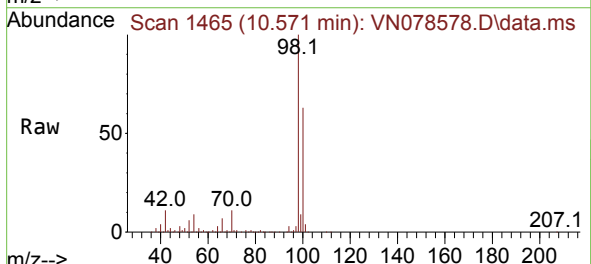
Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

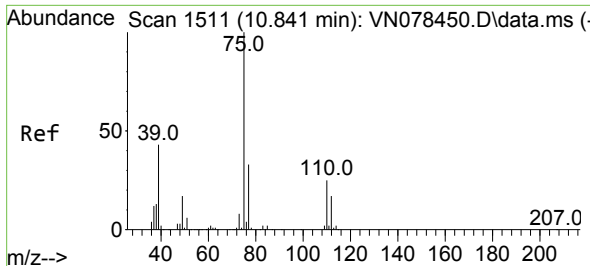
Tgt Ion: 43 Resp: 10233
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 44.361 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 98 Resp: 852271
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0

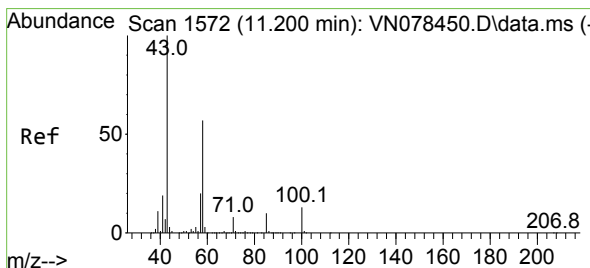
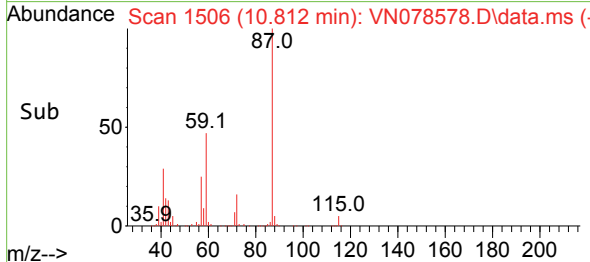
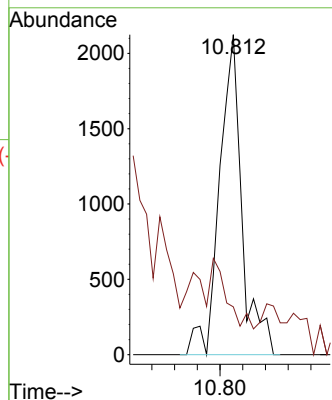
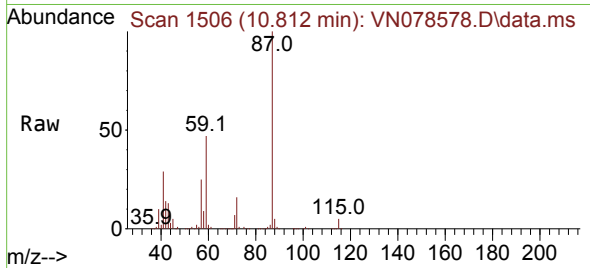




#53
t-1,3-Dichloropropene
Concen: 0.365 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.029 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

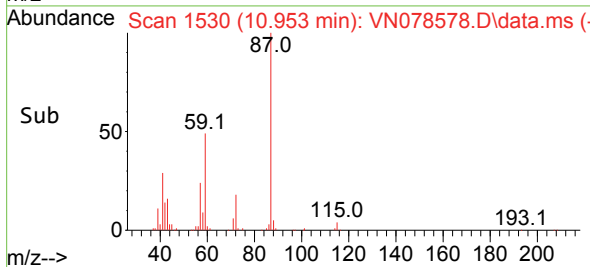
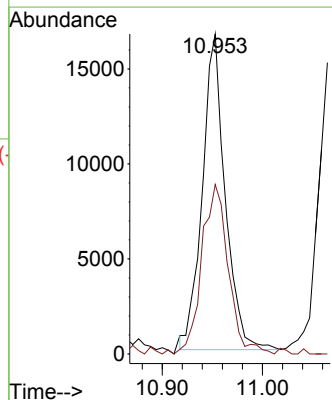
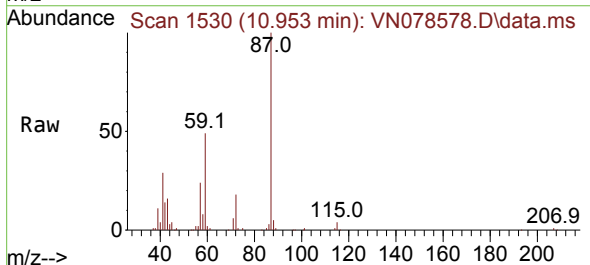
Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

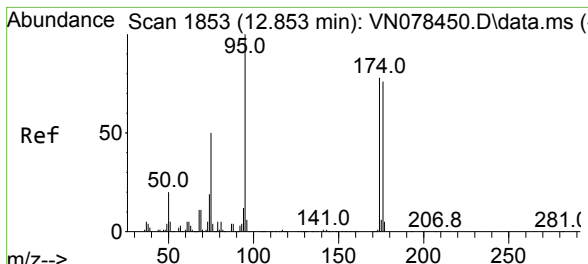
Tgt Ion: 75 Resp: 2908
Ion Ratio Lower Upper
75 100
77 5.0 25.4 38.0#



#59
2-Hexanone
Concen: 6.190 ug/l
RT: 10.953 min Scan# 1530
Delta R.T. -0.247 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 43 Resp: 26370
Ion Ratio Lower Upper
43 100
58 61.6 31.7 95.1

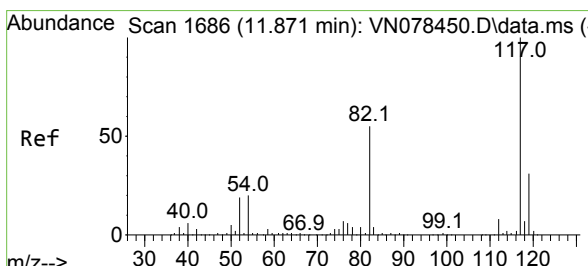
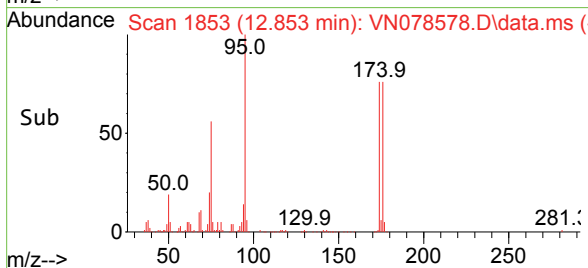
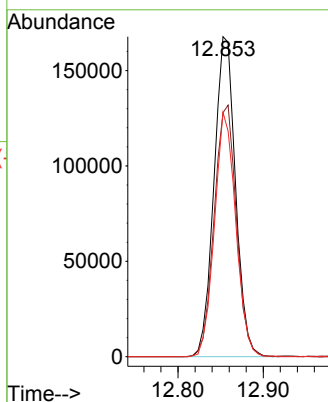
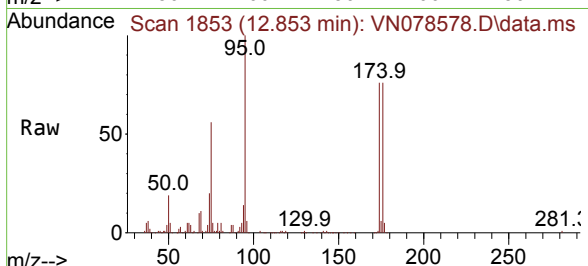




#62
 4-Bromofluorobenzene
 Concen: 49.578 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

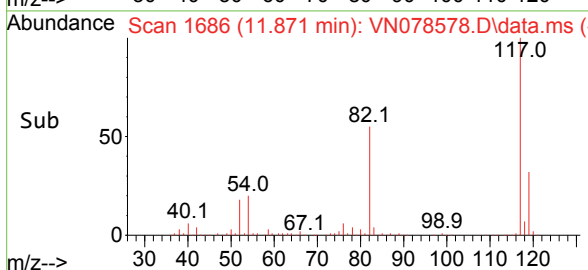
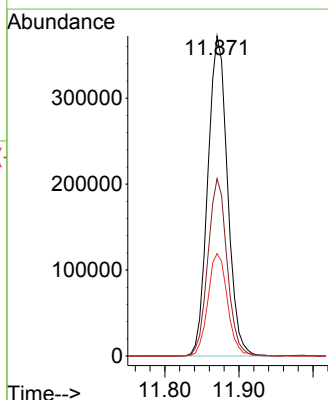
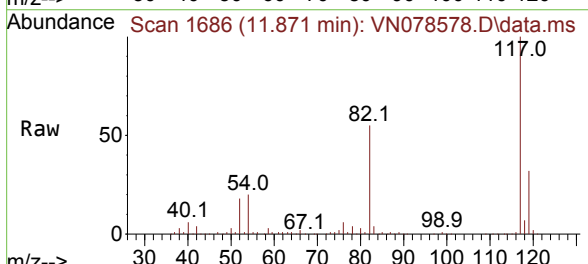
Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1012

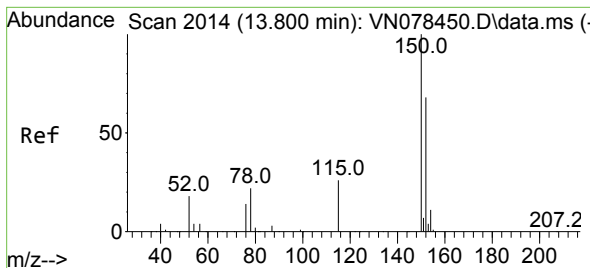
Tgt Ion:	95	Resp:	293388
Ion	Ratio	Lower	Upper
95	100		
174	81.3	0.0	143.8
176	75.5	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

Tgt Ion:	117	Resp:	685010
Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.0	66.0
119	32.0	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

AUD-1012

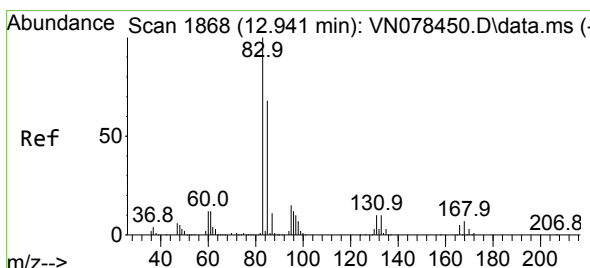
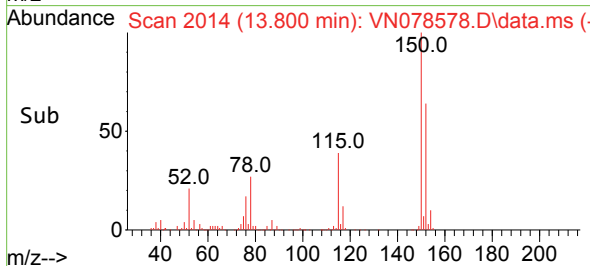
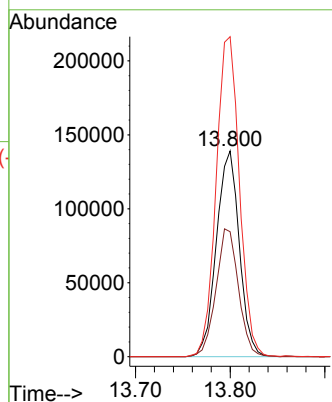
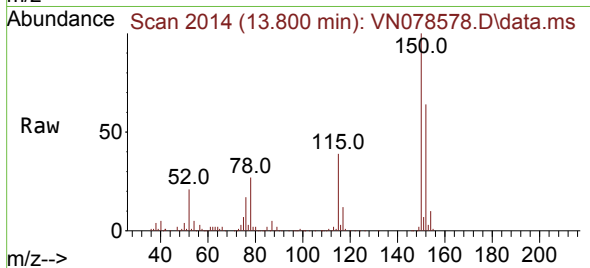
Tgt Ion:152 Resp: 233469

Ion Ratio Lower Upper

152 100

115 61.2 32.3 96.8

150 158.1 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

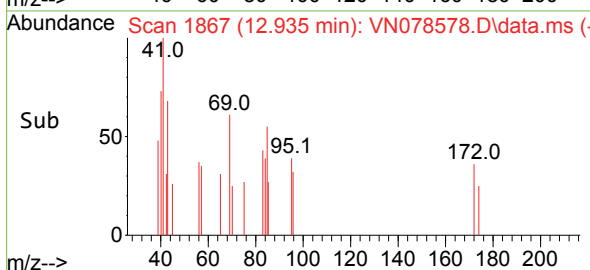
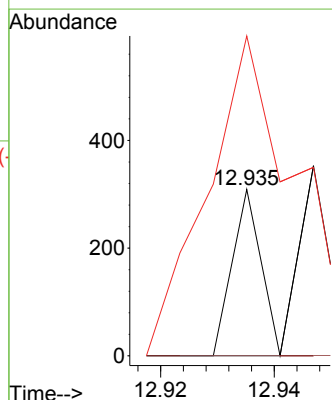
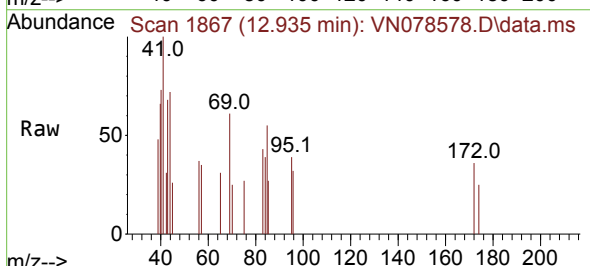
Tgt Ion: 83 Resp: 109

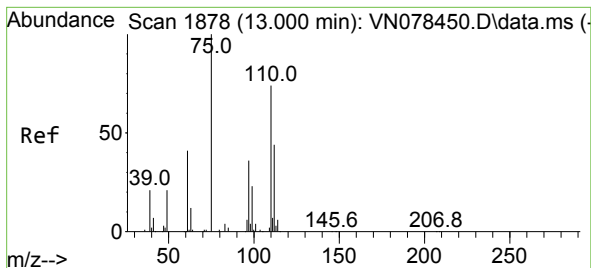
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 575.2 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.628 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

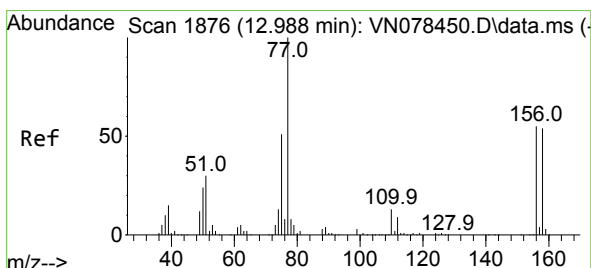
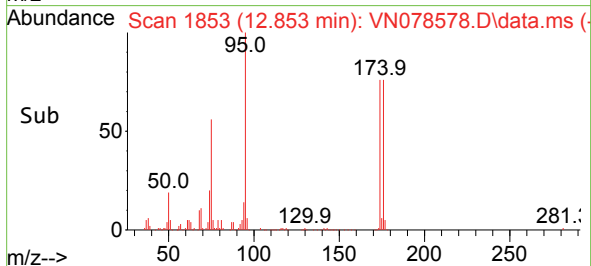
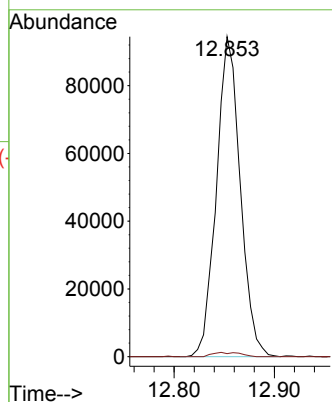
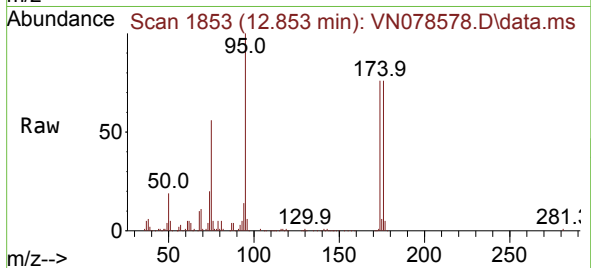
AUD-1012

Tgt Ion: 75 Resp: 155911

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078578.D

Acq: 19 Jul 2023 14:12

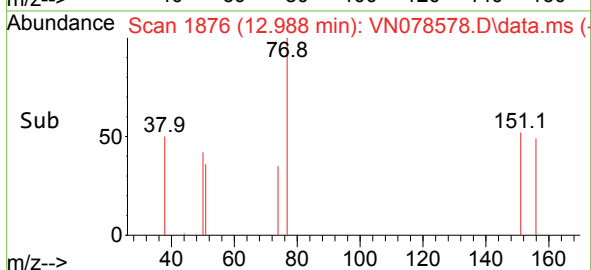
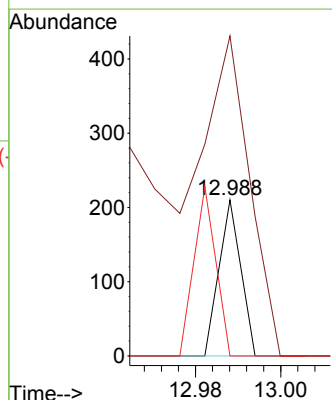
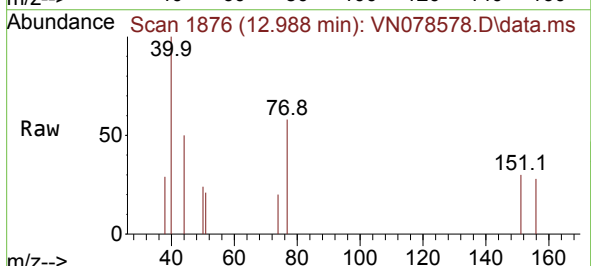
Tgt Ion:156 Resp: 74

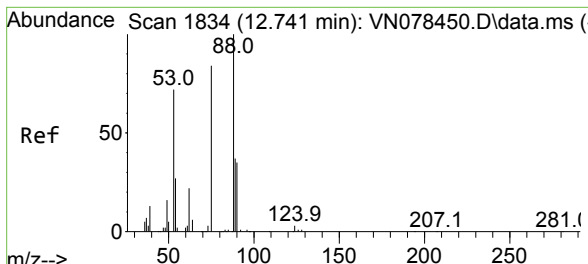
Ion Ratio Lower Upper

156 100

77 764.9 107.7 323.3#

158 108.1 48.4 145.3

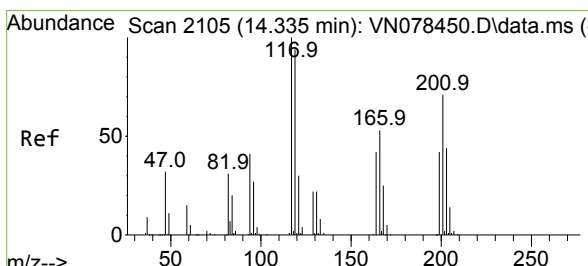
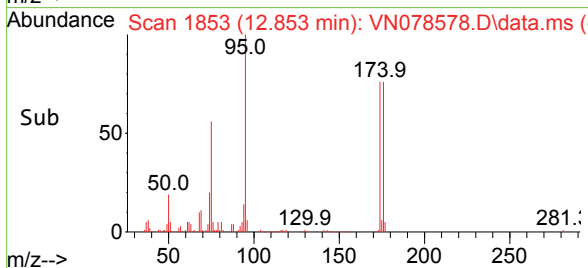
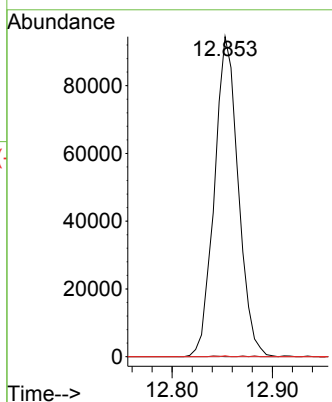
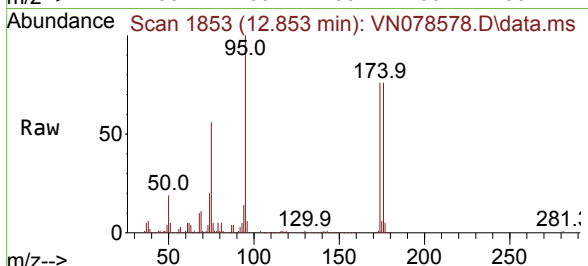




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.601 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

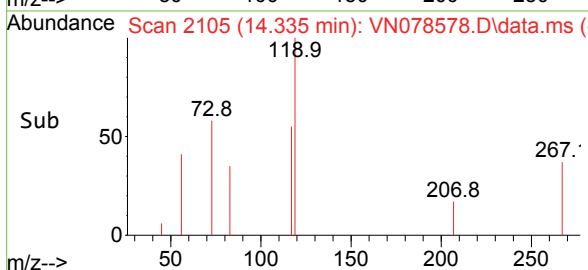
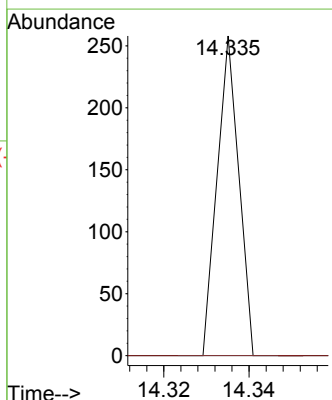
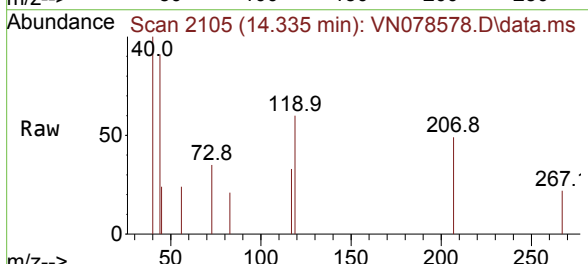
Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1012

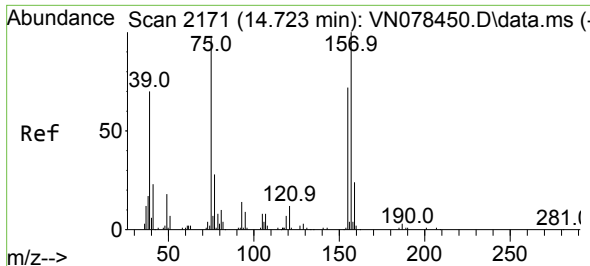
Tgt Ion: 75 Resp: 155911
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.1 38.8 58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.335 min Scan# 2105
 Delta R.T. 0.000 min
 Lab File: VN078578.D
 Acq: 19 Jul 2023 14:12

Tgt Ion: 117 Resp: 91
 Ion Ratio Lower Upper
 117 100
 201 0.0 29.3 88.0#

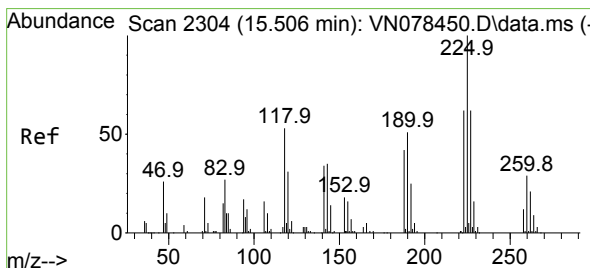
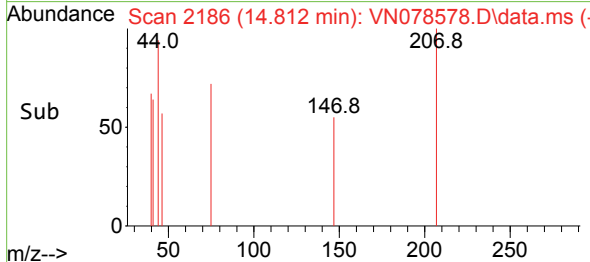
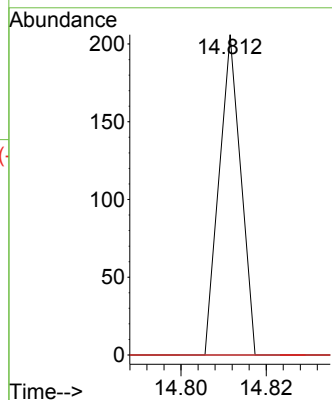
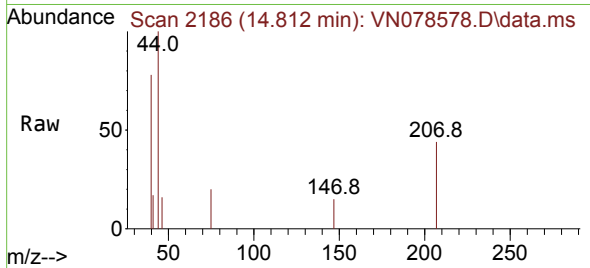




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.812 min Scan# 2171
Delta R.T. 0.088 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

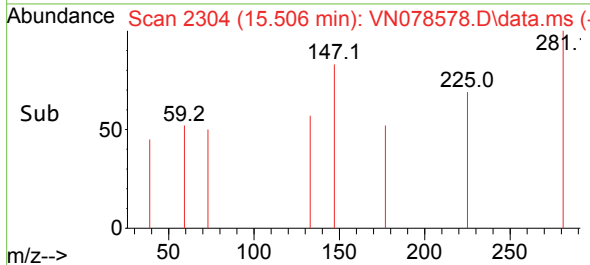
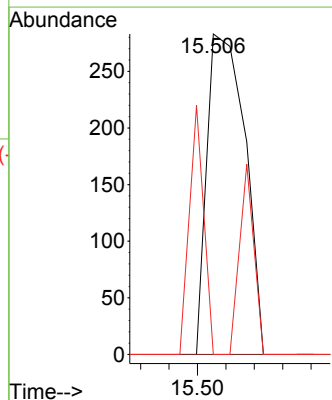
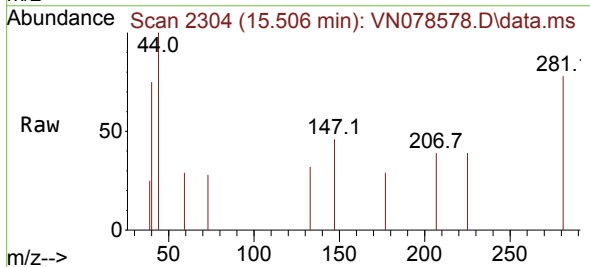
Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

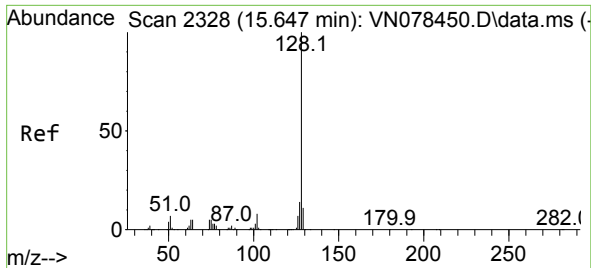
Tgt Ion: 75 Resp: 73
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Tgt Ion: 225 Resp: 262
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 29.8 31.9 95.9#





#95
Naphthalene
Concen: 0.239 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078578.D
Acq: 19 Jul 2023 14:12

Instrument :
MSVOA_N
ClientSampleId :
AUD-1012

Tgt Ion:128 Resp: 2184
Ion Ratio Lower Upper
128 100
127 17.9 10.0 15.0#
129 0.0 8.7 13.1#

