

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070122\
 Data File : VN073297.D
 Acq On : 01 Jul 2022 15:12
 Operator : JC\MD
 Sample : N3569-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

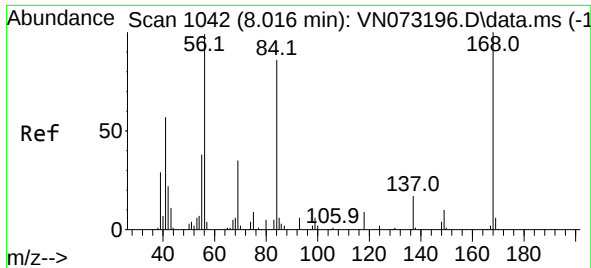
Instrument :
 MSVOA_N
 ClientSampleId :
 152140-SPC-05-20

Quant Time: Jul 04 05:05:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	299104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	491169	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	448375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	223226	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	186281	43.142	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.280%		
35) Dibromofluoromethane	7.951	113	157523	48.204	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.400%		
50) Toluene-d8	10.380	98	518860	44.705	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.420%		
62) 4-Bromofluorobenzene	12.668	95	231974	52.010	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.020%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.398	62	1438	0.399	ug/l #	88
16) Acetone	4.234	43	10143	4.185	ug/l #	73
25) 2-Butanone	7.281	43	3036	0.787	ug/l #	72
27) cis-1,2-Dichloroethene	7.251	96	8578	1.925	ug/l	93
31) Cyclohexane	8.022	56	8579	1.213	ug/l #	19
36) 1,1-Dichloropropene	8.016	75	23448	4.663	ug/l #	49
37) Ethyl Acetate	7.281	43	3036	0.400	ug/l #	67
38) Carbon Tetrachloride	8.022	117	29998	5.769	ug/l #	15
39) Methylcyclohexane	9.392	83	2359	0.377	ug/l #	84
52) Toluene	10.451	92	2584	0.269	ug/l	97
71) Bromoform	12.668	173	1715	0.628	ug/l #	1
73) Isopropylbenzene	12.521	105	12073	0.626	ug/l	99
76) 1,2,3-Trichloropropane	12.668	75	119275	20.435	ug/l #	1
78) n-propylbenzene	12.857	91	16561	0.773	ug/l	97
80) 1,3,5-Trimethylbenzene	12.951	105	7470	0.475	ug/l	69
81) trans-1,4-Dichloro-2-b...	12.668	75	119275	56.041	ug/l #	10
83) tert-Butylbenzene	13.262	119	3404	0.242	ug/l	89
84) 1,2,4-Trimethylbenzene	13.310	105	41630	2.654	ug/l	99
85) sec-Butylbenzene	13.439	105	6076	0.321	ug/l	97
87) 1,3-Dichlorobenzene	13.551	146	1969	0.245	ug/l	82
88) 1,4-Dichlorobenzene	13.627	146	21295	2.643	ug/l	89
90) Hexachloroethane	14.157	117	5917	2.078	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.504	75	693	0.446	ug/l #	1
95) Naphthalene	15.433	128	17021	0.989	ug/l	98

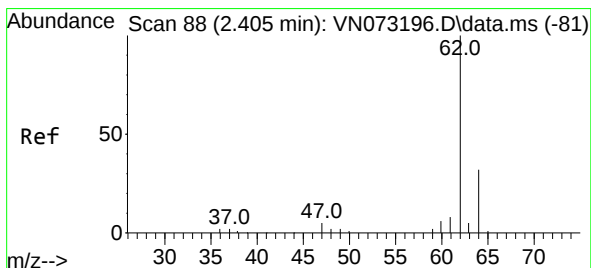
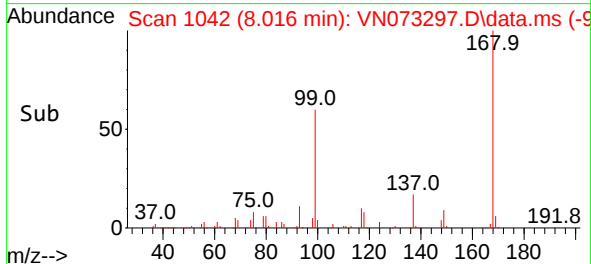
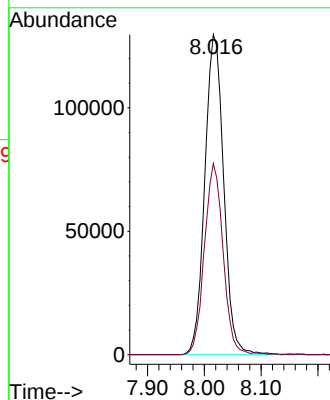
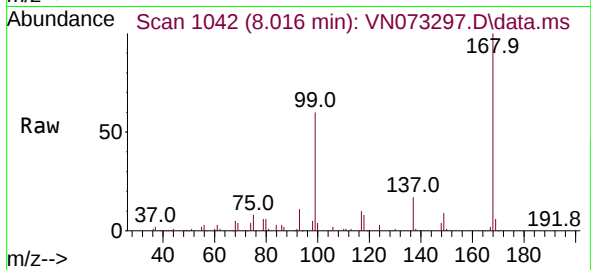
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

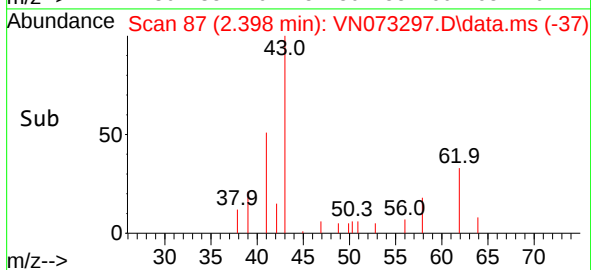
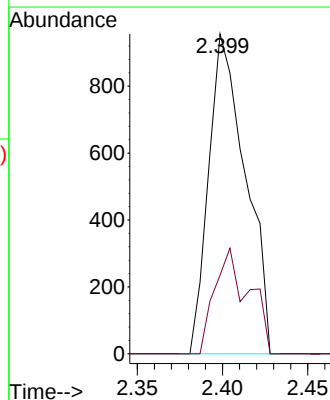
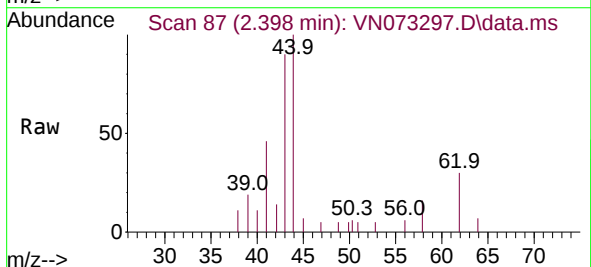
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

Tgt Ion:168 Resp: 299104
Ion Ratio Lower Upper
168 100
99 59.7 42.3 63.5



#4
Vinyl Chloride
Concen: 0.399 ug/l
RT: 2.398 min Scan# 87
Delta R.T. -0.006 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 62 Resp: 1438
Ion Ratio Lower Upper
62 100
64 24.6 25.0 37.4#

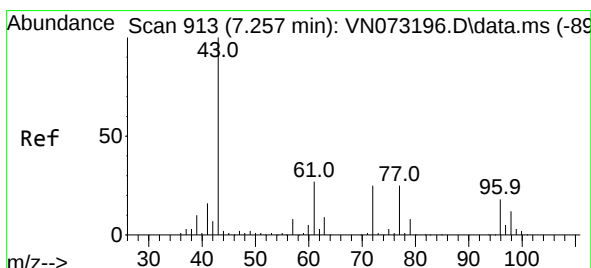
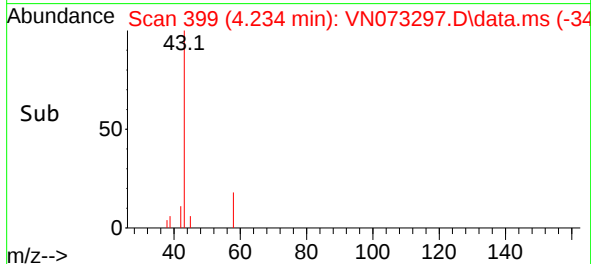
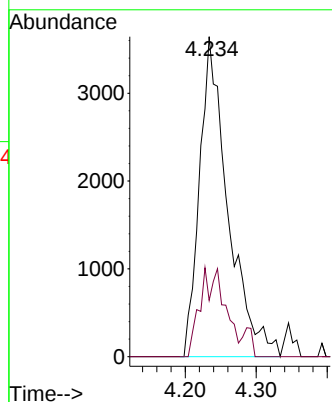
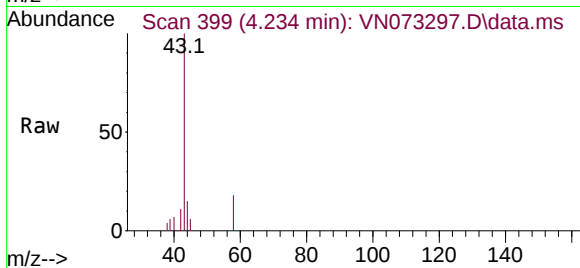




#16
Acetone
Concen: 4.185 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

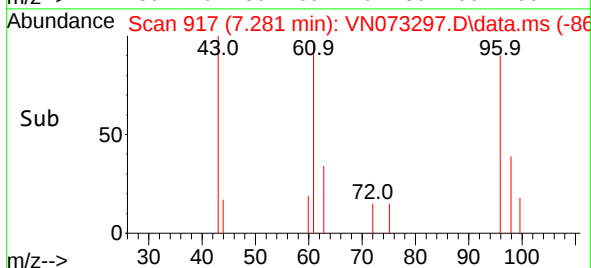
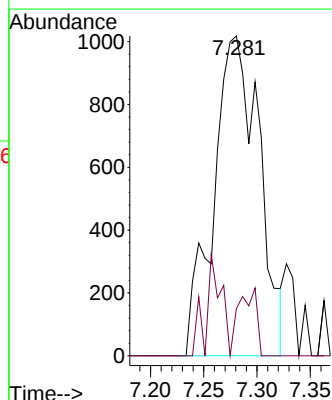
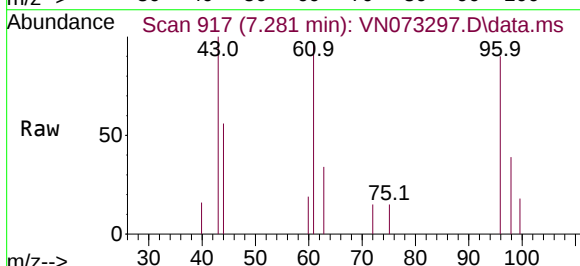
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

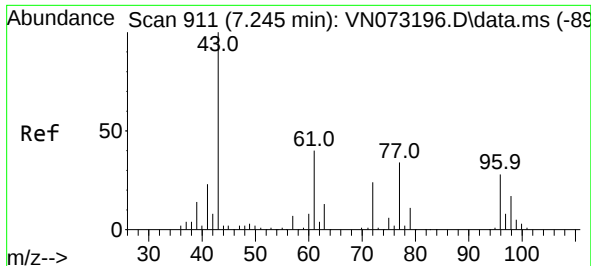
Tgt Ion: 43 Resp: 10143
Ion Ratio Lower Upper
43 100
58 17.6 26.0 39.0#



#25
2-Butanone
Concen: 0.787 ug/l
RT: 7.281 min Scan# 917
Delta R.T. 0.024 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 43 Resp: 3036
Ion Ratio Lower Upper
43 100
72 14.7 23.7 35.5#

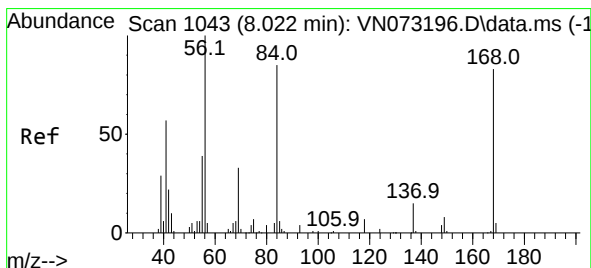
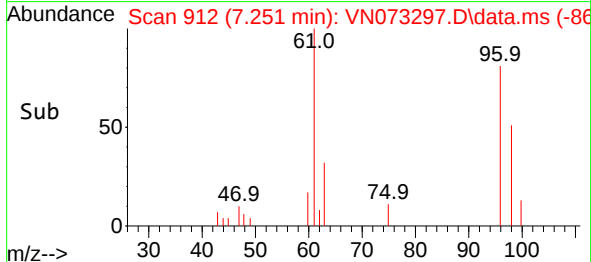
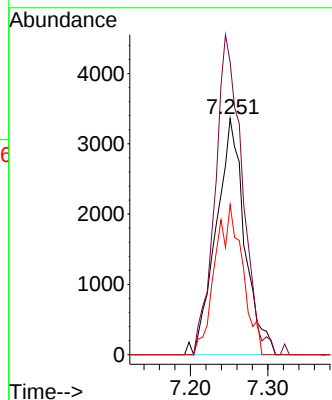
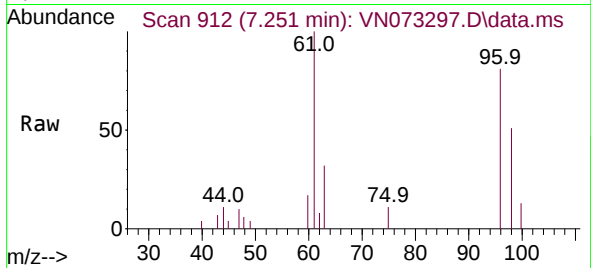




#27
 cis-1,2-Dichloroethene
 Concen: 1.925 ug/l
 RT: 7.251 min Scan# 911
 Delta R.T. 0.006 min
 Lab File: VN073297.D
 Acq: 01 Jul 2022 15:12

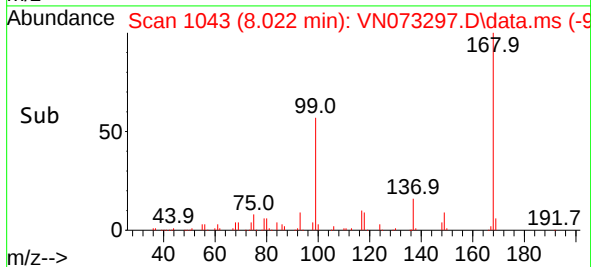
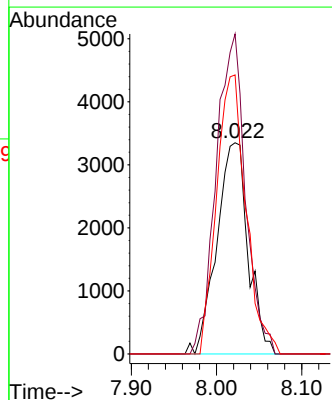
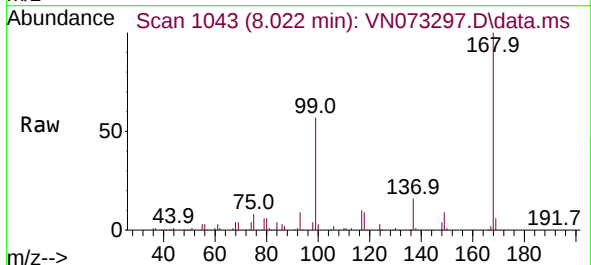
Instrument :
 MSVOA_N
 ClientSampleId :
 152140-SPC-05-20

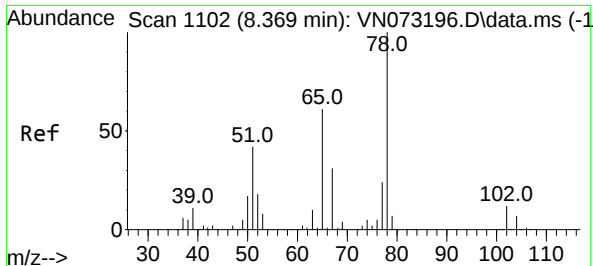
Tgt Ion: 96 Resp: 8578
 Ion Ratio Lower Upper
 96 100
 61 129.0 0.0 280.6
 98 61.5 0.0 128.4



#31
 Cyclohexane
 Concen: 1.213 ug/l
 RT: 8.022 min Scan# 1043
 Delta R.T. -0.000 min
 Lab File: VN073297.D
 Acq: 01 Jul 2022 15:12

Tgt Ion: 56 Resp: 8579
 Ion Ratio Lower Upper
 56 100
 69 151.5 27.8 41.8#
 84 132.1 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 43.142 ug/l

RT: 8.375 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

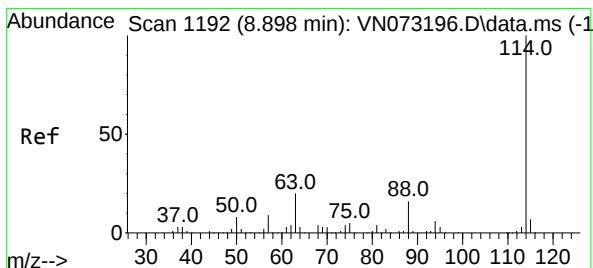
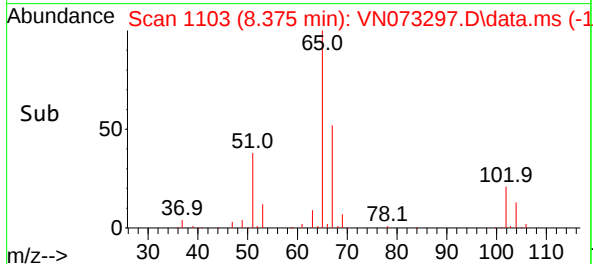
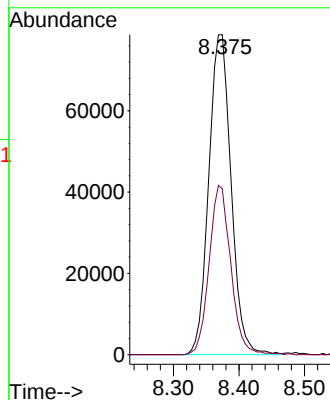
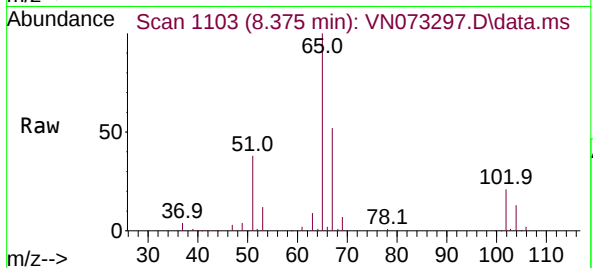
152140-SPC-05-20

Tgt Ion: 65 Resp: 186281

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

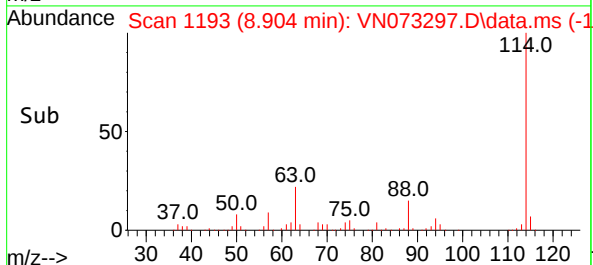
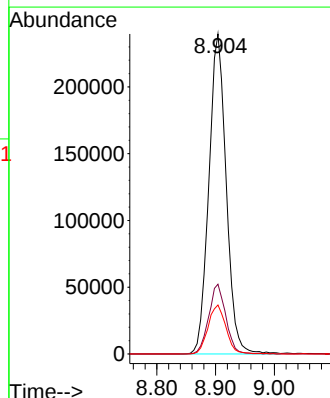
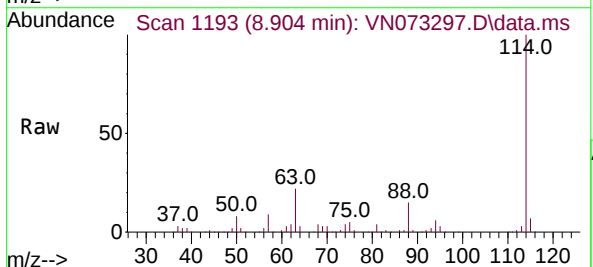
Tgt Ion: 114 Resp: 491169

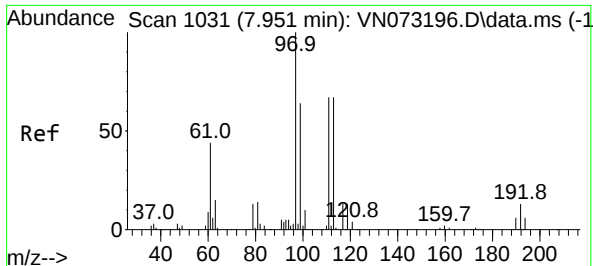
Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.0

88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.204 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

152140-SPC-05-20

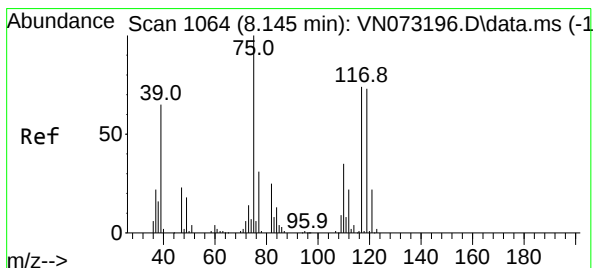
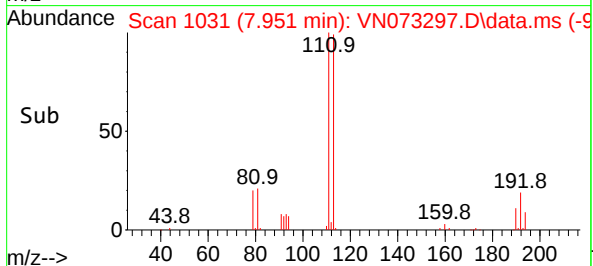
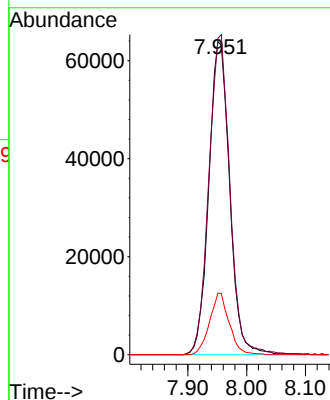
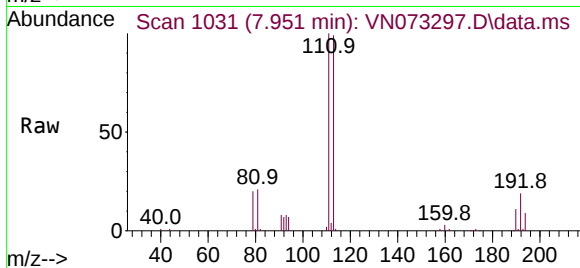
Tgt Ion:113 Resp: 157523

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 18.5 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.663 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.129 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

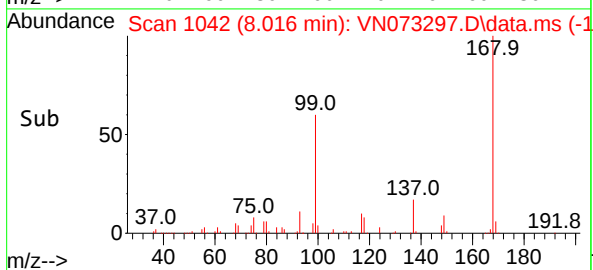
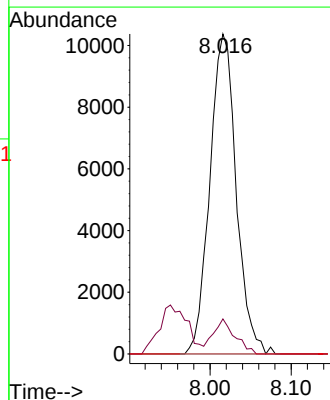
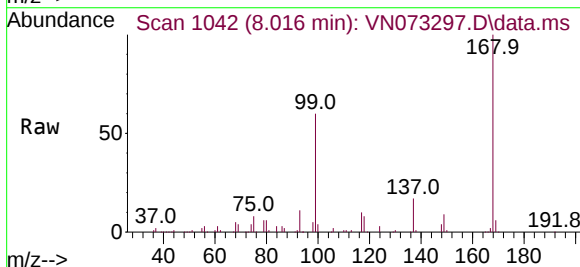
Tgt Ion: 75 Resp: 23448

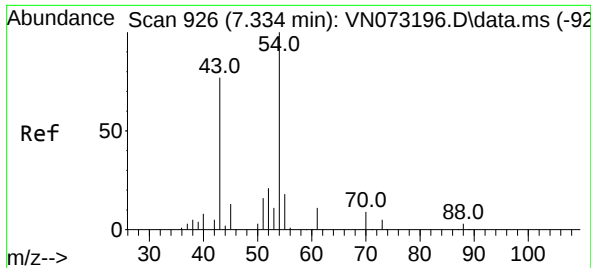
Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.8#

77 0.0 25.1 37.7#

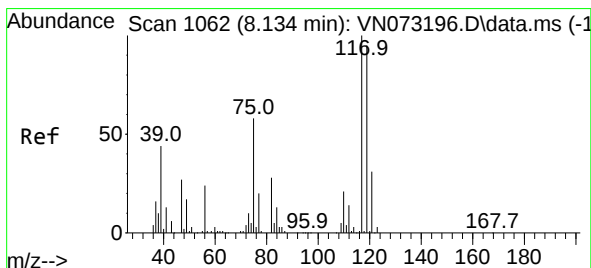
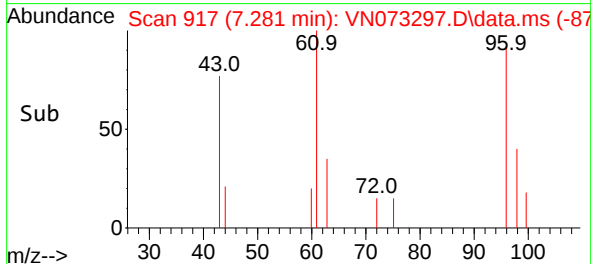
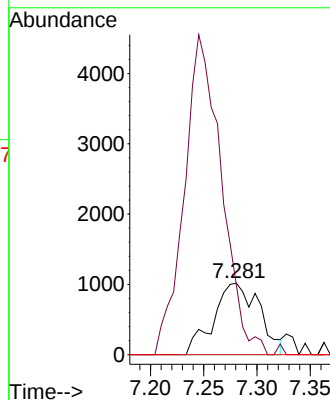
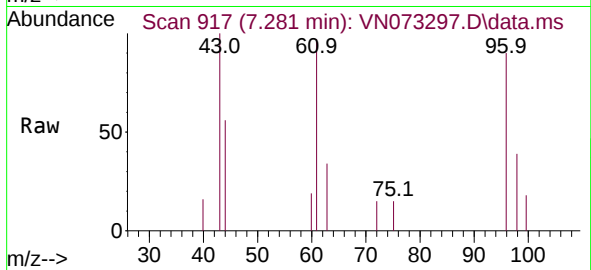




#37
Ethyl Acetate
Concen: 0.400 ug/l
RT: 7.281 min Scan# 917
Delta R.T. -0.053 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

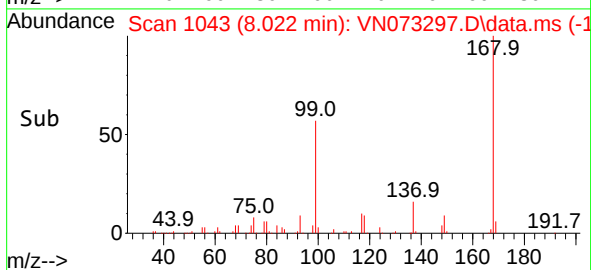
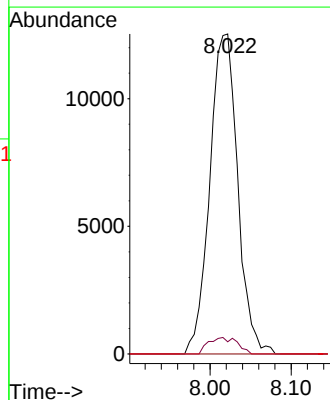
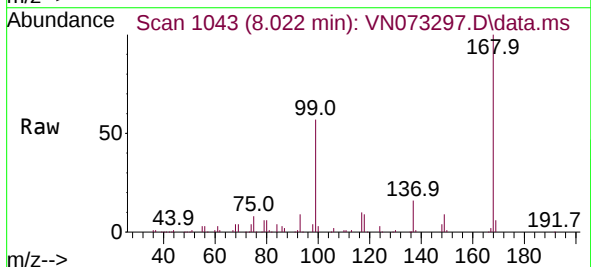
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

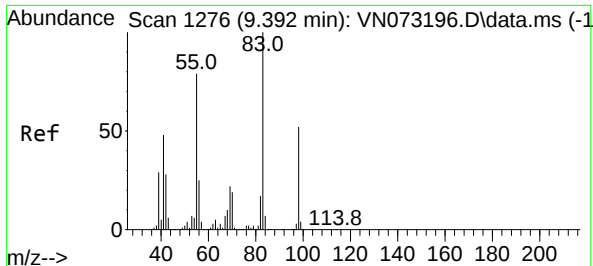
Tgt Ion: 43 Resp: 3036
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.769 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 117 Resp: 29998
Ion Ratio Lower Upper
117 100
119 3.8 75.8 113.8#
121 0.0 24.6 37.0#





#39

Methylcyclohexane

Concen: 0.377 ug/l

RT: 9.392 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

152140-SPC-05-20

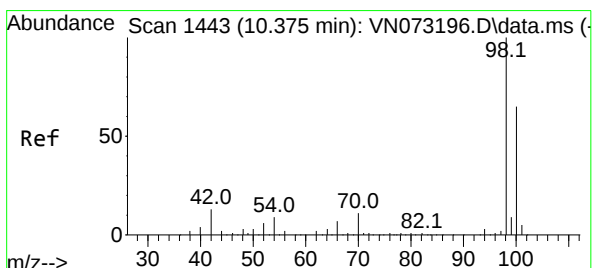
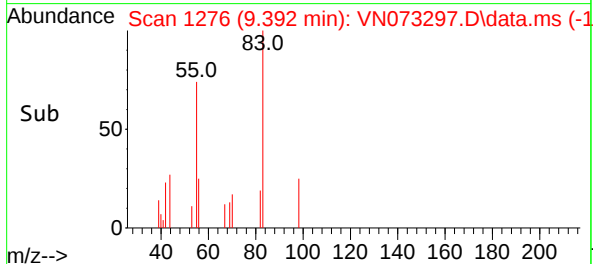
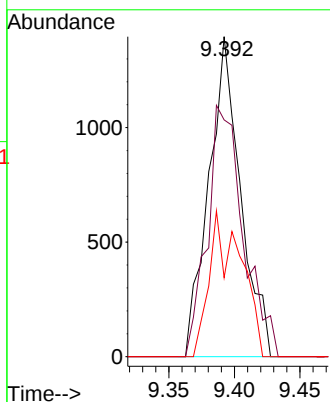
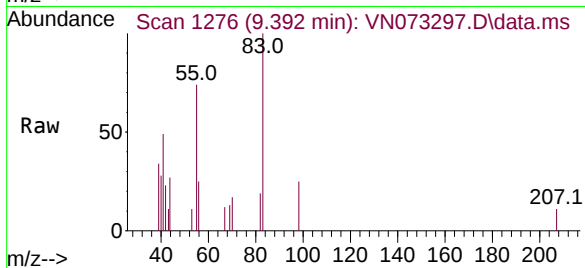
Tgt Ion: 83 Resp: 2359

Ion Ratio Lower Upper

83 100

55 74.0 57.8 86.8

98 24.7 39.4 59.2#



#50

Toluene-d8

Concen: 44.705 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.005 min

Lab File: VN073297.D

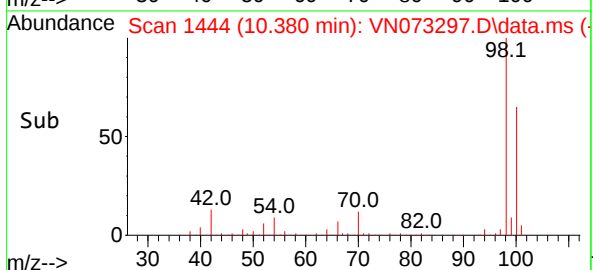
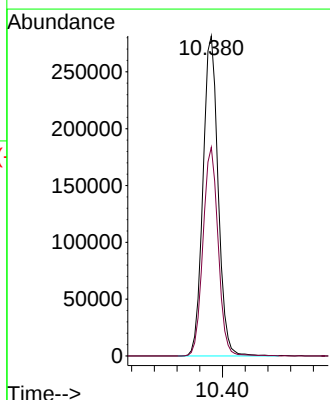
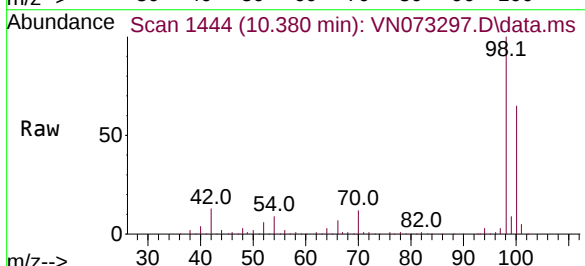
Acq: 01 Jul 2022 15:12

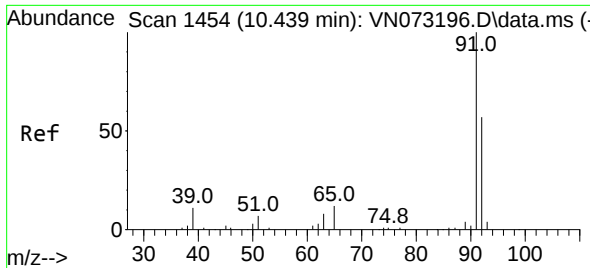
Tgt Ion: 98 Resp: 518860

Ion Ratio Lower Upper

98 100

100 65.2 52.6 78.8

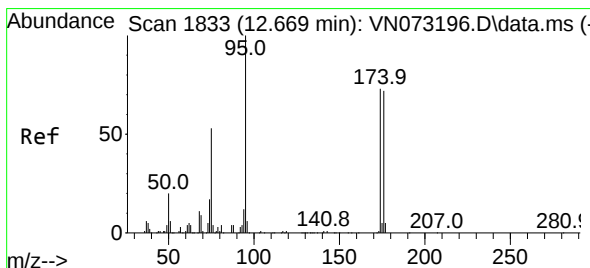
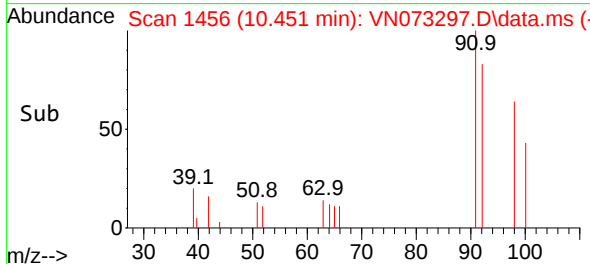
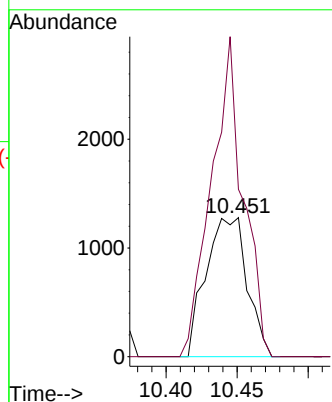
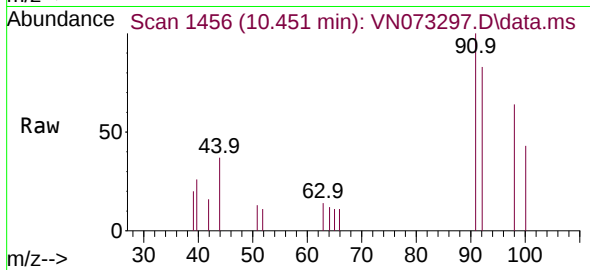




#52
Toluene
Concen: 0.269 ug/l
RT: 10.451 min Scan# 1454
Delta R.T. 0.012 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

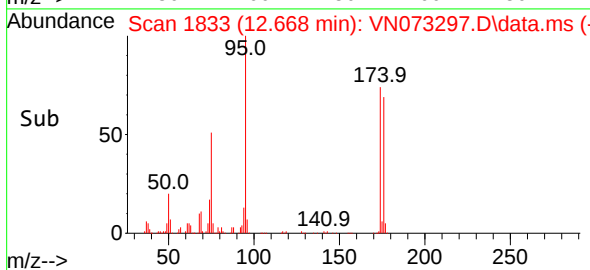
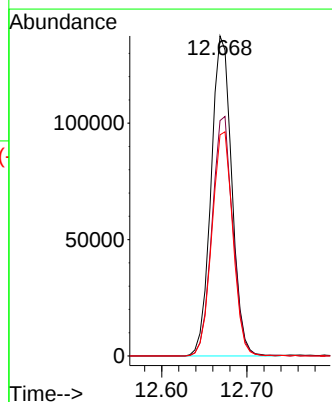
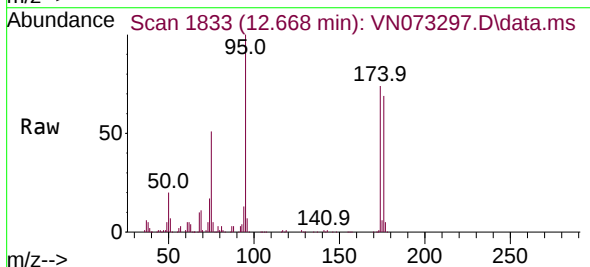
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

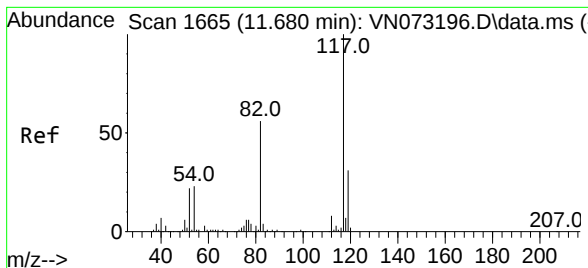
Tgt Ion: 92 Resp: 2584
Ion Ratio Lower Upper
92 100
91 177.3 138.6 207.8



#62
4-Bromofluorobenzene
Concen: 52.010 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 95 Resp: 231974
Ion Ratio Lower Upper
95 100
174 75.0 0.0 167.6
176 70.8 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

152140-SPC-05-20

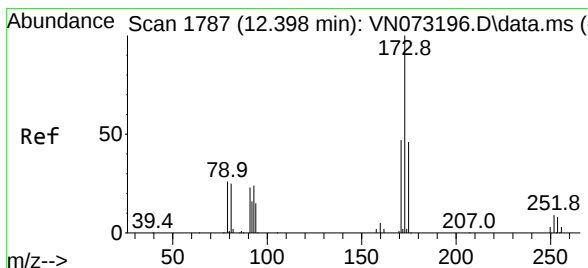
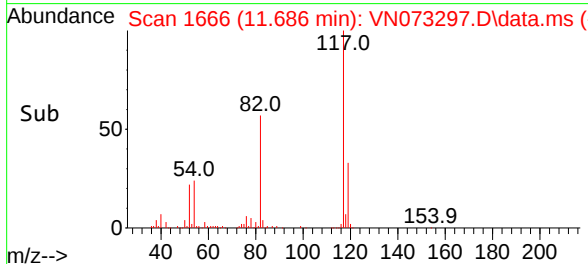
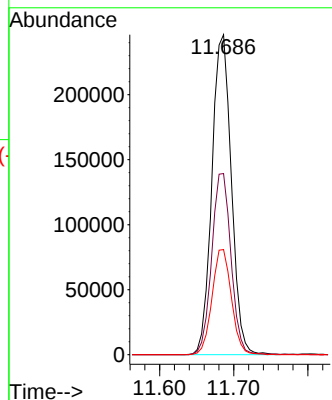
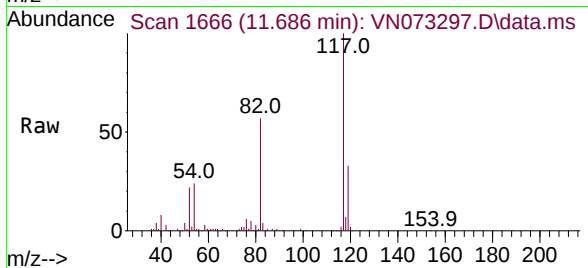
Tgt Ion:117 Resp: 448375

Ion Ratio Lower Upper

117 100

82 56.6 44.2 66.2

119 32.9 25.4 38.0



#71

Bromoform

Concen: 0.628 ug/l

RT: 12.668 min Scan# 1833

Delta R.T. 0.270 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

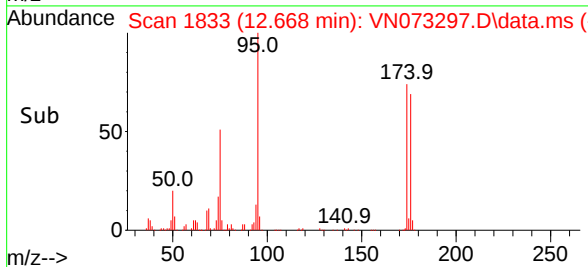
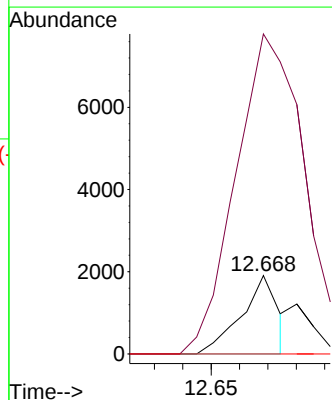
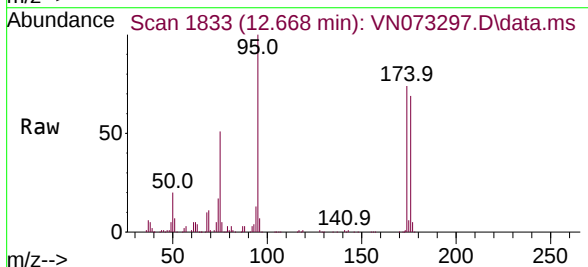
Tgt Ion:173 Resp: 1715

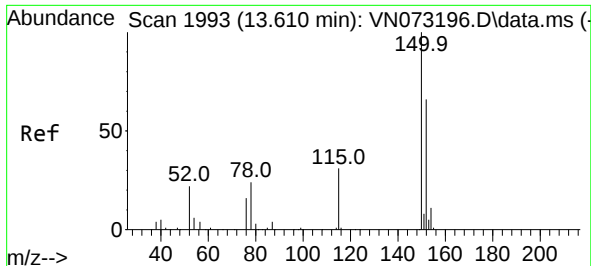
Ion Ratio Lower Upper

173 100

175 538.4 24.6 73.6#

254 0.0 0.1 0.1#

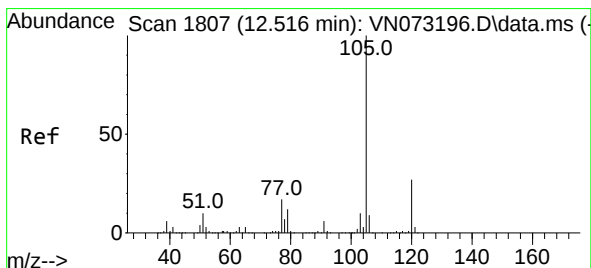
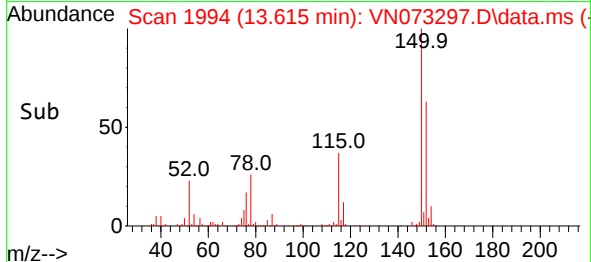
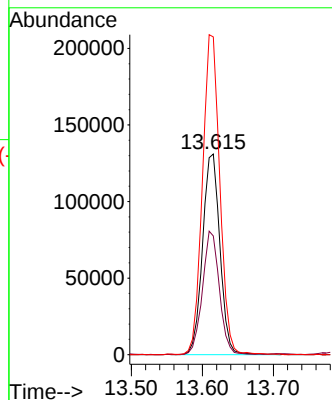
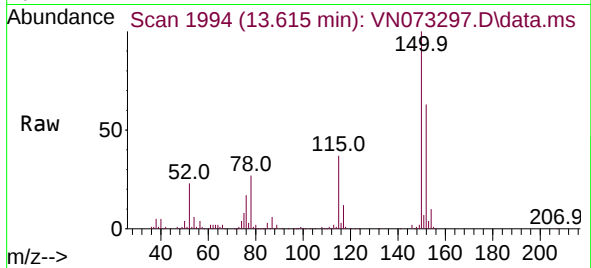




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. 0.005 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

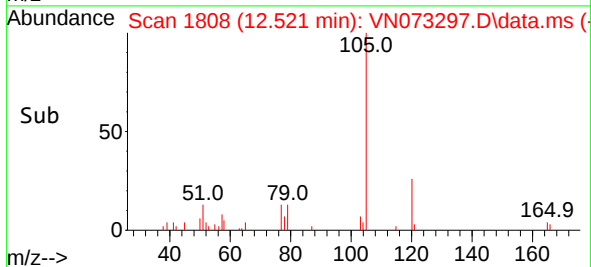
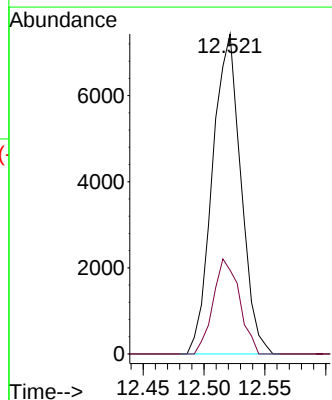
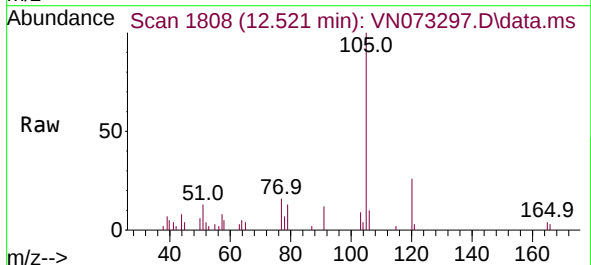
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

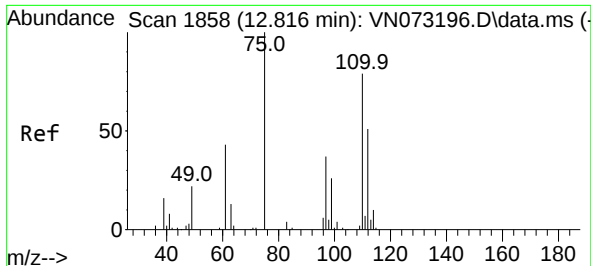
Tgt Ion:152 Resp: 223226
Ion Ratio Lower Upper
152 100
115 59.9 28.9 86.7
150 159.6 0.0 356.2



#73
Isopropylbenzene
Concen: 0.626 ug/l
RT: 12.521 min Scan# 1808
Delta R.T. 0.005 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion:105 Resp: 12073
Ion Ratio Lower Upper
105 100
120 27.5 13.5 40.4

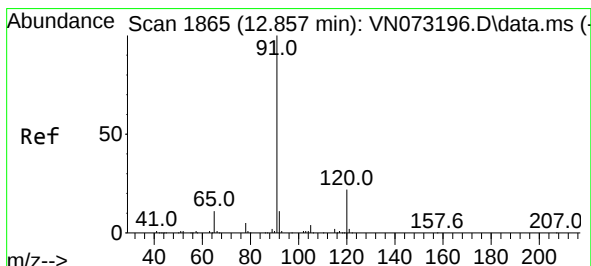
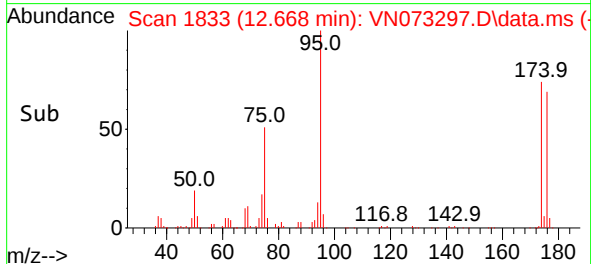
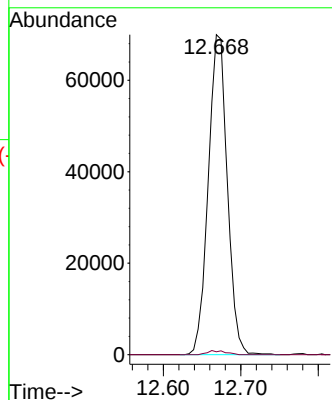
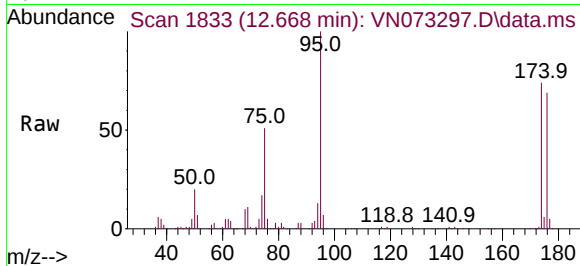




#76
1,2,3-Trichloropropane
Concen: 20.435 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.148 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

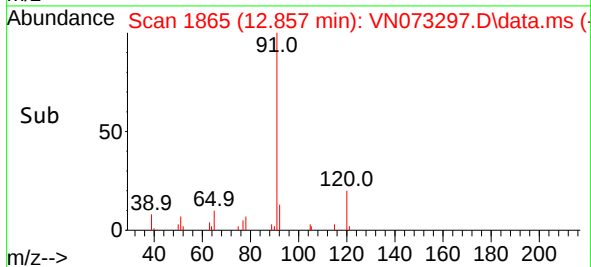
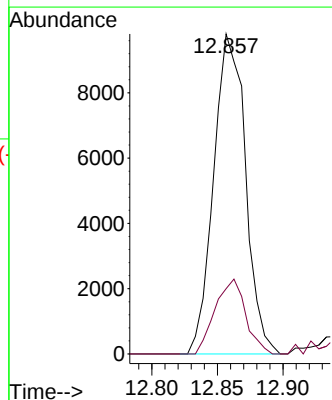
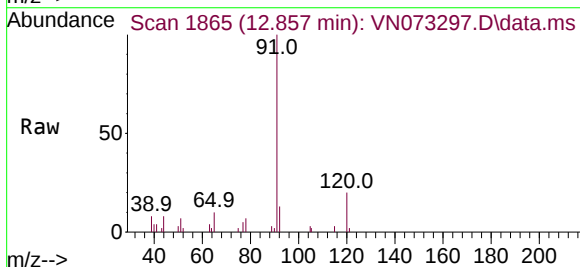
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

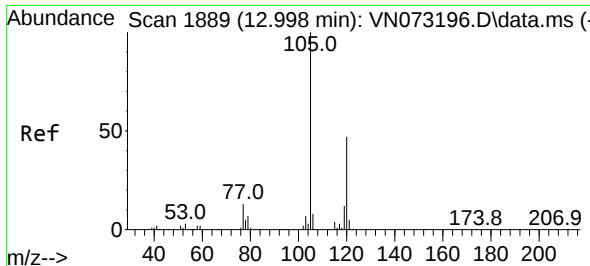
Tgt Ion: 75 Resp: 119275
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.000 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 91 Resp: 16561
Ion Ratio Lower Upper
91 100
120 22.4 11.9 35.5

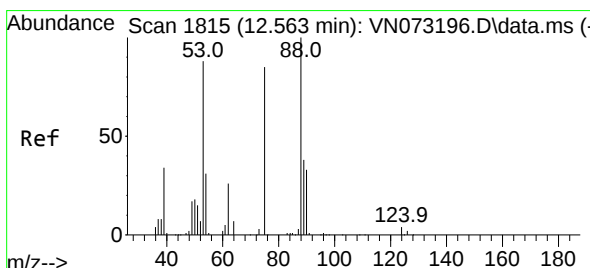
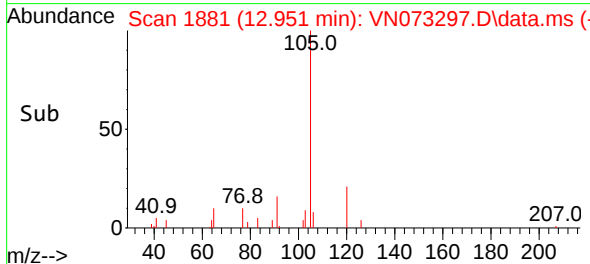
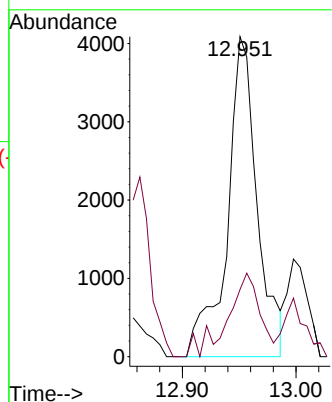
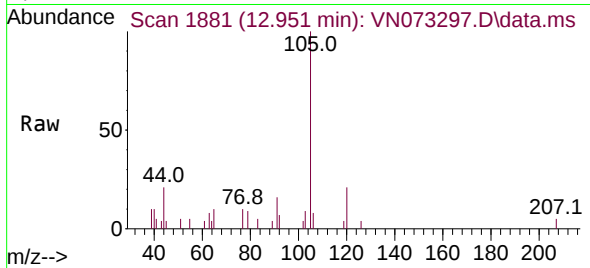




#80
1,3,5-Trimethylbenzene
Concen: 0.475 ug/l
RT: 12.951 min Scan# 1881
Delta R.T. -0.047 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

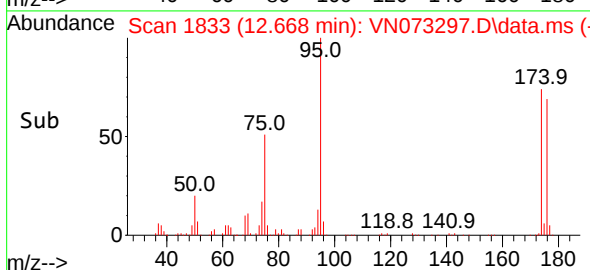
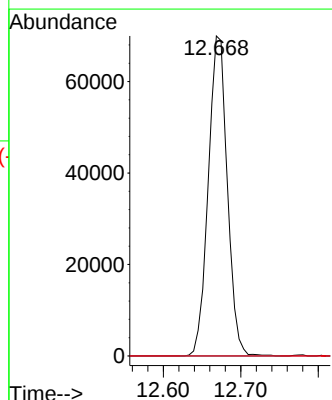
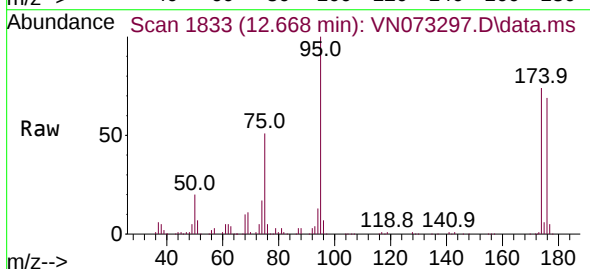
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

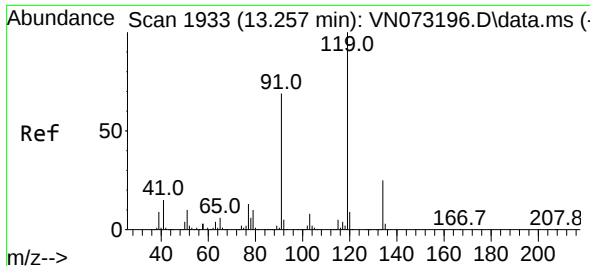
Tgt Ion:105 Resp: 7470
Ion Ratio Lower Upper
105 100
120 28.5 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 56.041 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.105 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion: 75 Resp: 119275
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

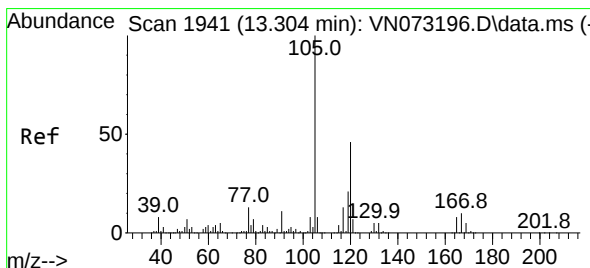
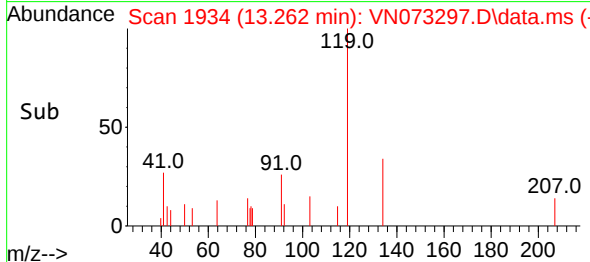
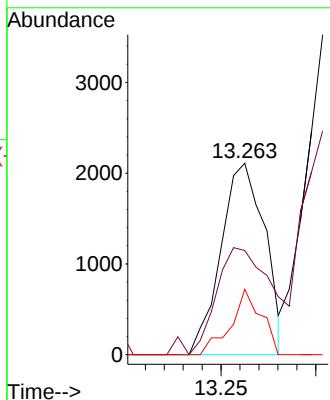
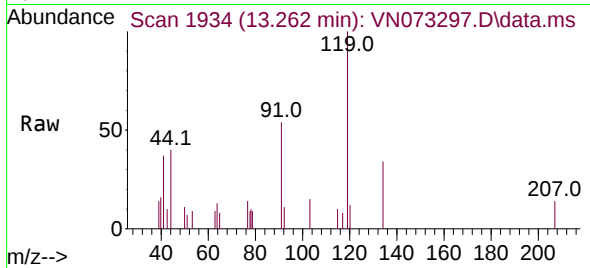




#83
tert-Butylbenzene
Concen: 0.242 ug/l
RT: 13.262 min Scan# 1934
Delta R.T. 0.005 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

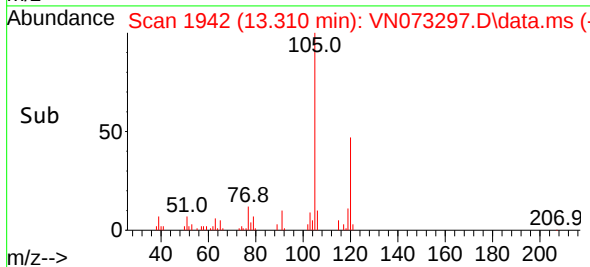
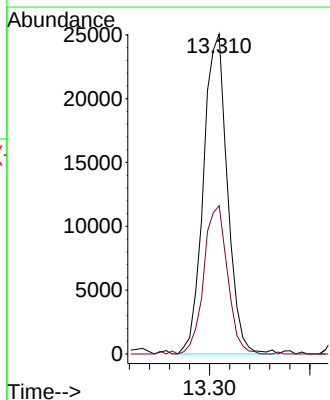
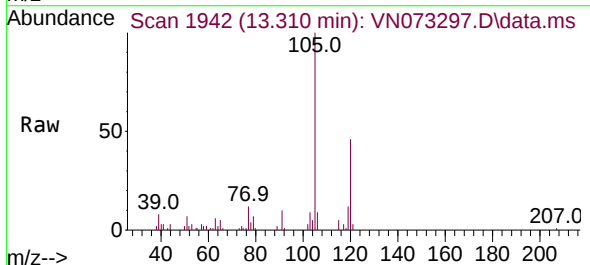
Instrument :
MSVOA_N
ClientSampleId :
152140-SPC-05-20

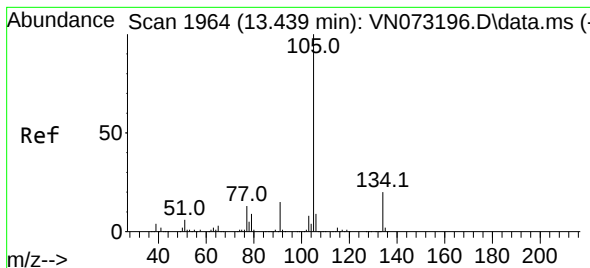
Tgt Ion:119 Resp: 3404
Ion Ratio Lower Upper
119 100
91 73.6 31.6 94.8
134 23.7 13.7 41.1



#84
1,2,4-Trimethylbenzene
Concen: 2.654 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VN073297.D
Acq: 01 Jul 2022 15:12

Tgt Ion:105 Resp: 41630
Ion Ratio Lower Upper
105 100
120 46.0 23.3 69.8





#85

sec-Butylbenzene

Concen: 0.321 ug/l

RT: 13.439 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

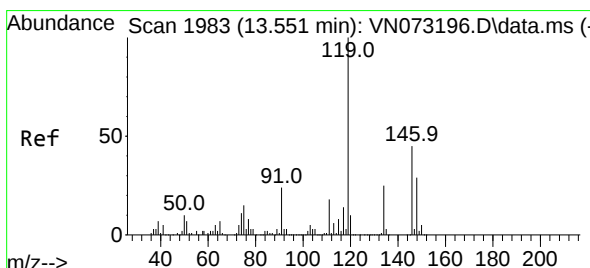
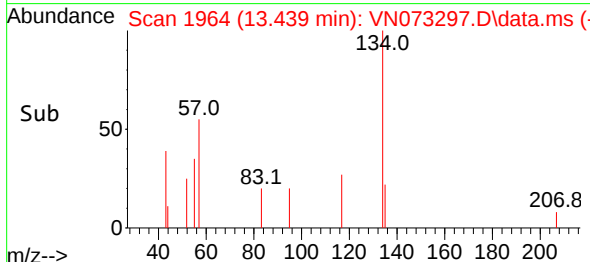
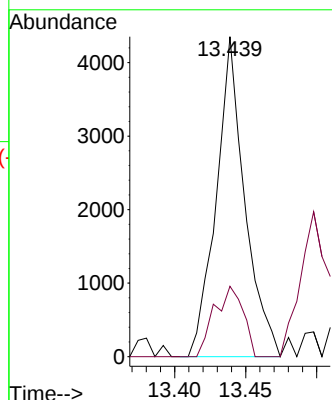
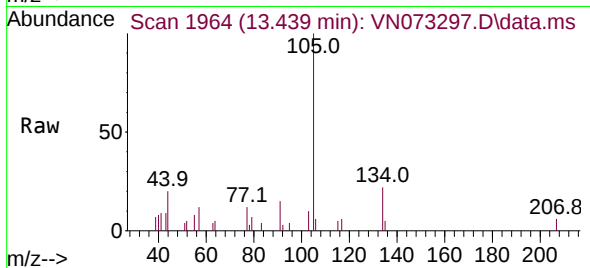
152140-SPC-05-20

Tgt Ion:105 Resp: 6076

Ion Ratio Lower Upper

105 100

134 22.2 10.4 31.1



#87

1,3-Dichlorobenzene

Concen: 0.245 ug/l

RT: 13.551 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

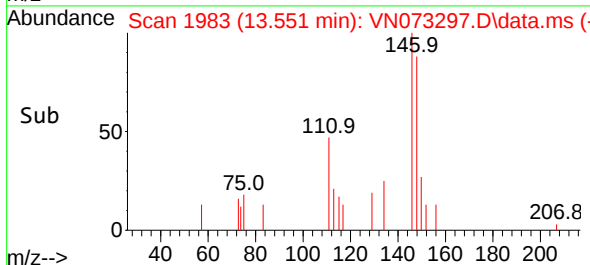
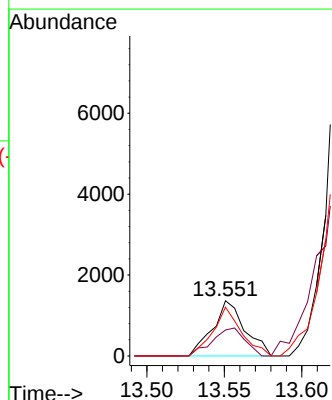
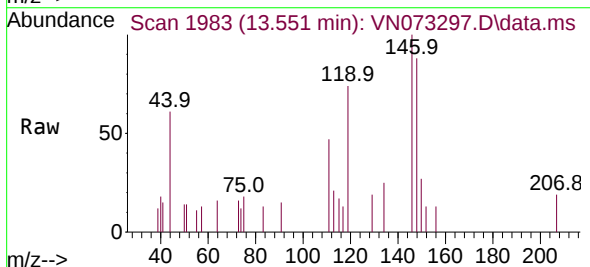
Tgt Ion:146 Resp: 1969

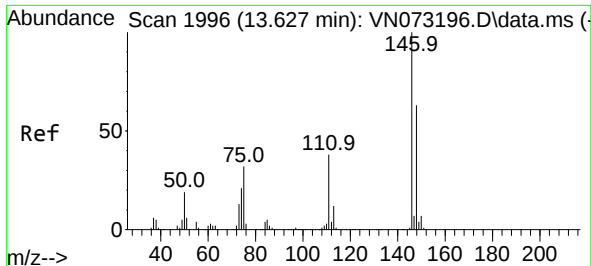
Ion Ratio Lower Upper

146 100

111 51.2 20.0 60.0

148 78.2 32.0 96.0

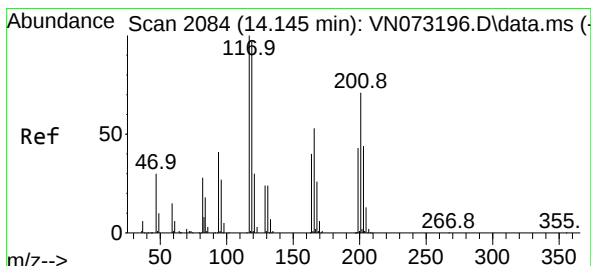
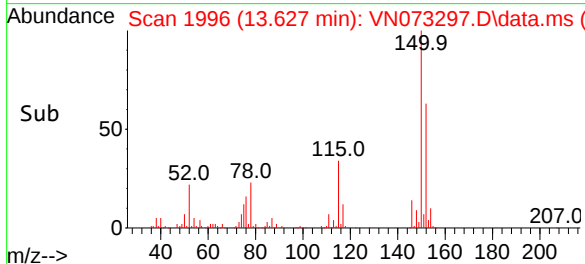
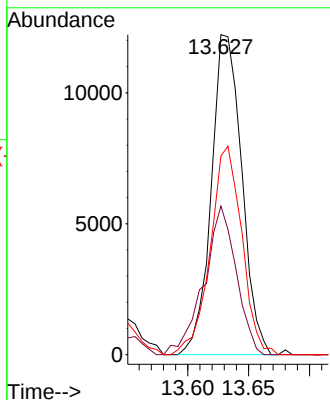
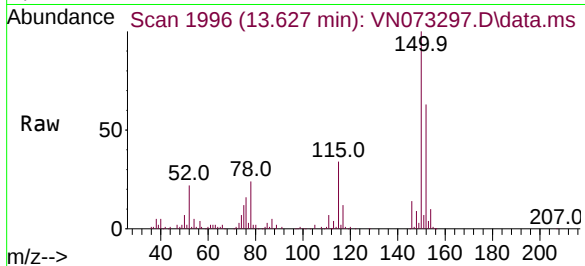




#88
 1,4-Dichlorobenzene
 Concen: 2.643 ug/l
 RT: 13.627 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN073297.D
 Acq: 01 Jul 2022 15:12

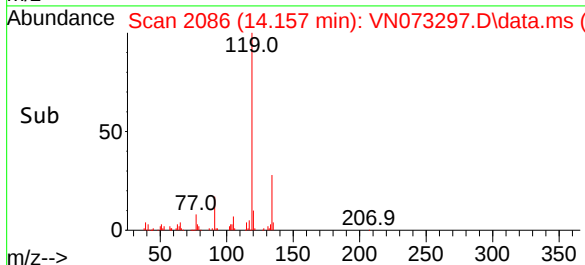
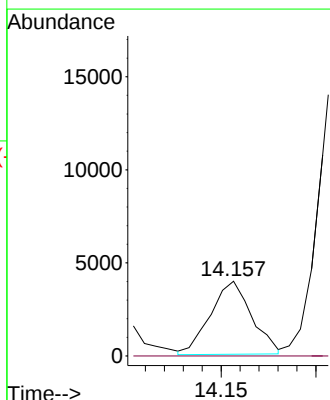
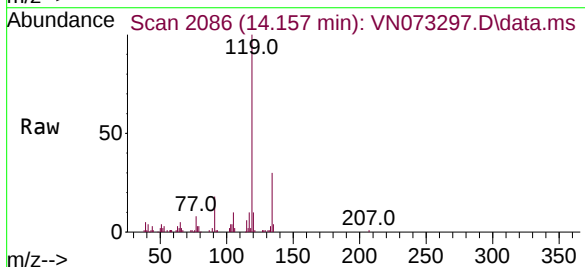
Instrument :
 MSVOA_N
 ClientSampleId :
 152140-SPC-05-20

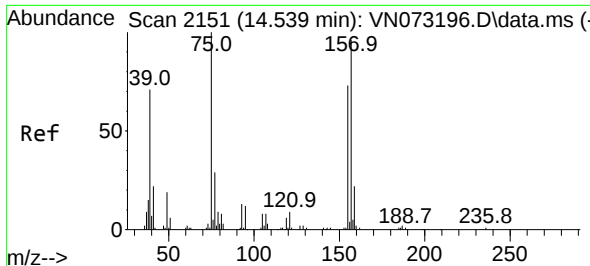
Tgt Ion:146 Resp: 21295
 Ion Ratio Lower Upper
 146 100
 111 49.2 19.1 57.1
 148 67.5 31.4 94.3



#90
 Hexachloroethane
 Concen: 2.078 ug/l
 RT: 14.157 min Scan# 2086
 Delta R.T. 0.012 min
 Lab File: VN073297.D
 Acq: 01 Jul 2022 15:12

Tgt Ion:117 Resp: 5917
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.6 122.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.446 ug/l

RT: 14.504 min Scan# 2151

Delta R.T. -0.035 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Instrument :

MSVOA_N

ClientSampleId :

152140-SPC-05-20

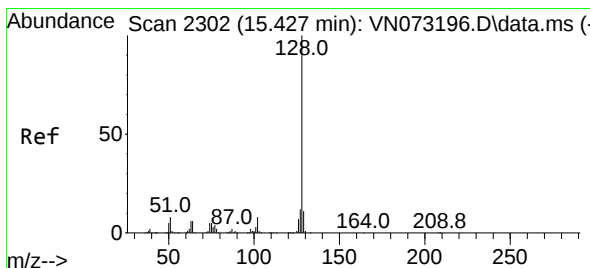
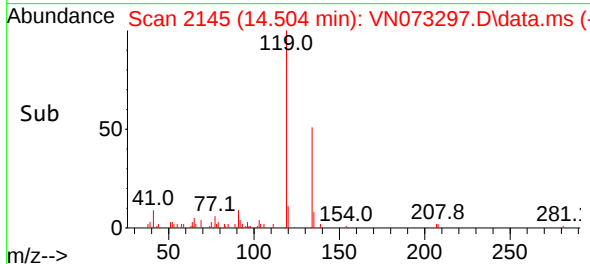
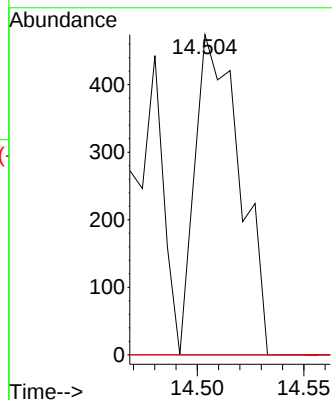
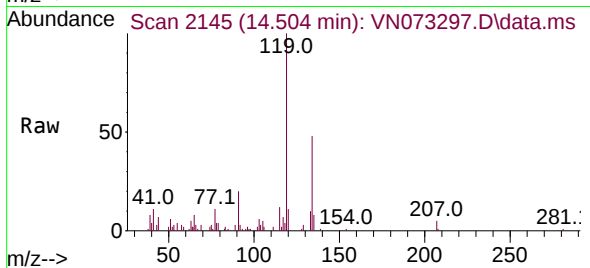
Tgt Ion: 75 Resp: 693

Ion Ratio Lower Upper

75 100

155 0.0 44.9 134.5#

157 0.0 59.0 176.8#



#95

Naphthalene

Concen: 0.989 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN073297.D

Acq: 01 Jul 2022 15:12

Tgt Ion: 128 Resp: 17021

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 12.2 8.6 13.0

