

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121421\
 Data File : VX025797.D
 Acq On : 14 Dec 2021 23:57
 Operator : JC/MD
 Sample : M4988-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 15 07:13:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

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

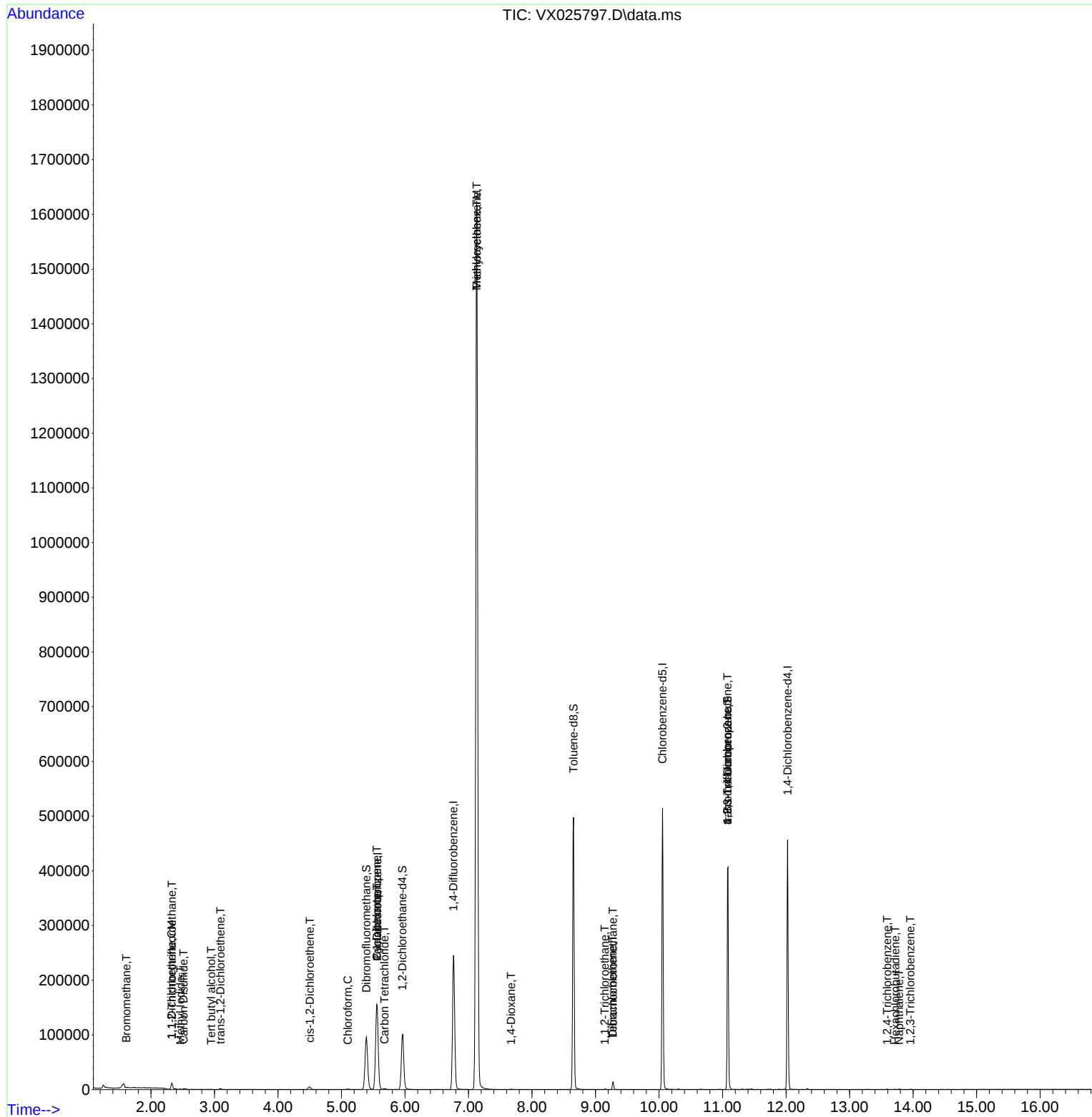
Internal Standards						
1) Pentafluorobenzene	5.562	168	147515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	254015	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	229396	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	94396	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	96632	45.528	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.060%
35) Dibromofluoromethane	5.391	113	81624	46.075	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.160%
50) Toluene-d8	8.653	98	296893	45.997	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.000%
62) 4-Bromofluorobenzene	11.079	95	112694	45.963	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	91.920%
Target Compounds						
					Qvalue	
5) Bromomethane	1.612	94	306	0.235	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	3557	2.265	ug/l	96
10) Methyl Iodide	2.465	142	789	0.394	ug/l #	89
11) Tert butyl alcohol	2.947	59	109	0.256	ug/l #	73
12) 1,1-Dichloroethene	2.325	96	1015	0.650	ug/l #	87
16) Acetone	2.386	43	1269	Below Cal		96
17) Carbon Disulfide	2.514	76	952	0.213	ug/l	99
20) Methylene Chloride	2.794	84	128	Below Cal	#	57
21) trans-1,2-Dichloroethene	3.093	96	591	0.339	ug/l	96
27) cis-1,2-Dichloroethene	4.501	96	3389	1.640	ug/l	85
30) Chloroform	5.099	83	1058	0.306	ug/l #	75
31) Cyclohexane	5.556	56	3523	1.365	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	11328	4.715	ug/l #	50
38) Carbon Tetrachloride	5.678	117	943	0.337	ug/l	95
39) Methylcyclohexane	7.129	83	7518	2.797	ug/l #	1
44) Trichloroethene	7.129	130	613729	307.615	ug/l	96
49) 1,4-Dioxane	7.671	88	476	10.767	ug/l	88
55) 1,1,2-Trichloroethane	9.147	97	395	0.202	ug/l #	66
60) Dibromochloromethane	9.275	129	2679	1.205	ug/l #	11
64) Tetrachloroethene	9.269	164	2647	1.447	ug/l #	84
76) 1,2,3-Trichloropropane	11.079	75	57433	26.555	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	57433	82.328	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.591	180	283	3.510	ug/l #	71
94) Hexachlorobutadiene	13.719	225	217	0.326	ug/l	84
95) Naphthalene	13.780	128	874	2.540	ug/l #	87
96) 1,2,3-Trichlorobenzene	13.957	180	263	3.126	ug/l #	67

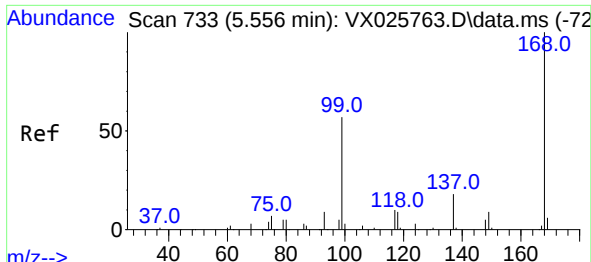
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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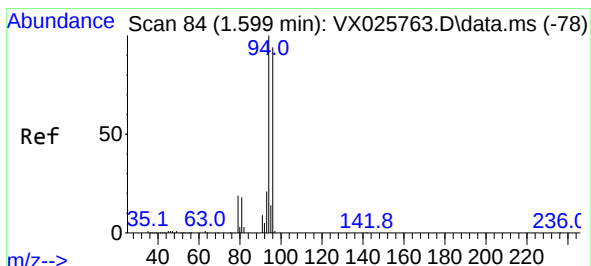
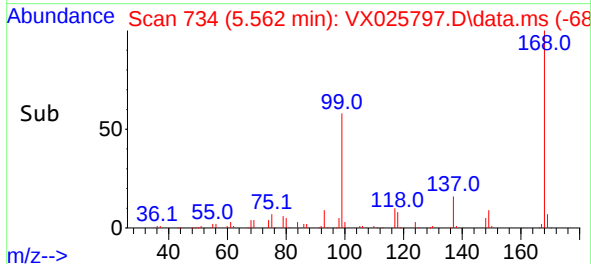
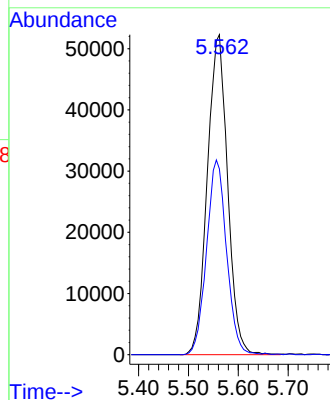
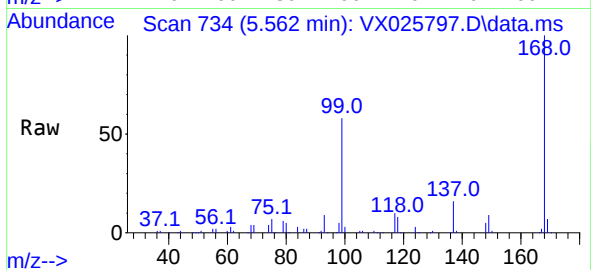




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

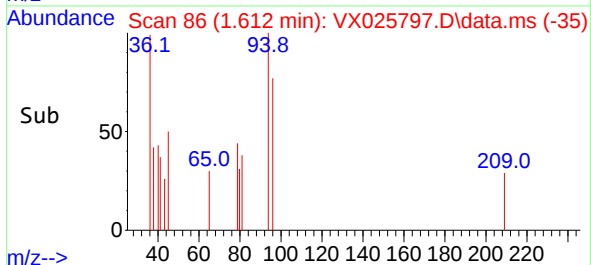
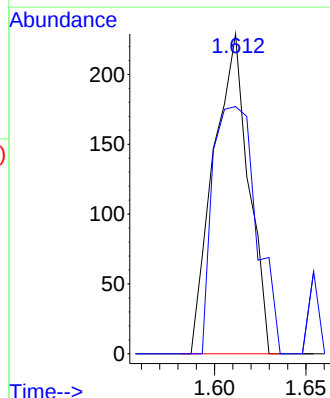
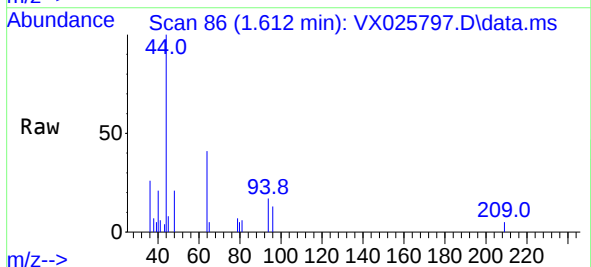
Instrument :
MSVOA_X
ClientSampleId :

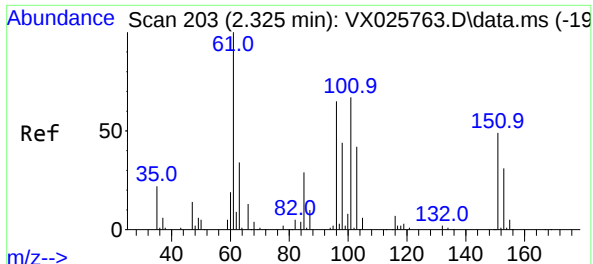
Tgt Ion:168 Resp: 147515
Ion Ratio Lower Upper
168 100
99 58.0 45.8 68.8



#5
Bromomethane
Concen: 0.235 ug/l
RT: 1.612 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion: 94 Resp: 306
Ion Ratio Lower Upper
94 100
96 77.3 75.0 112.4

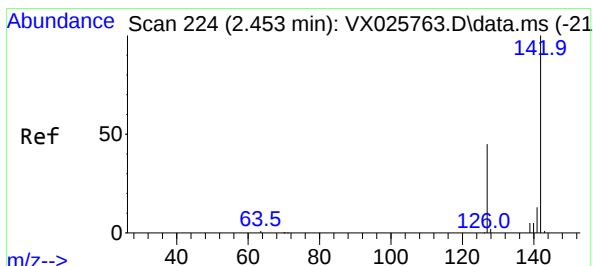
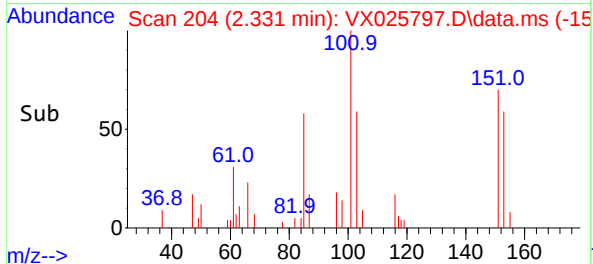
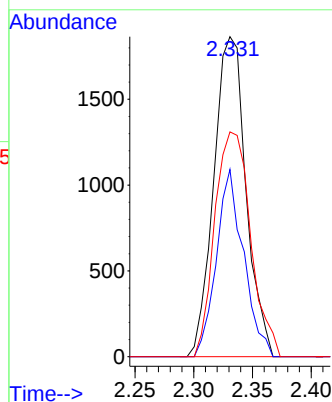
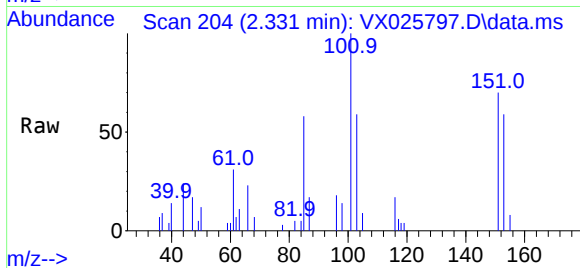




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.265 ug/l
RT: 2.331 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

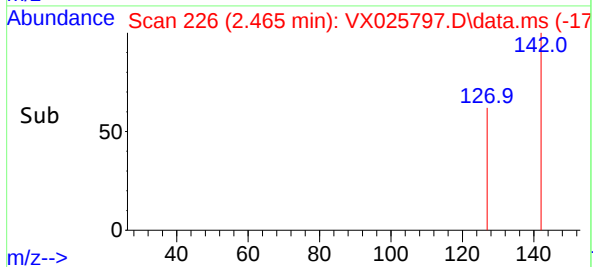
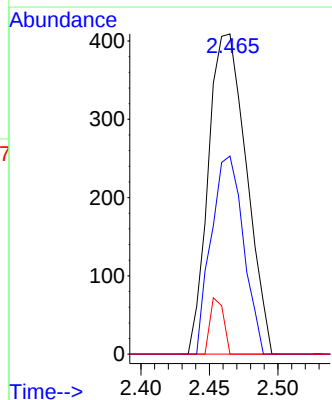
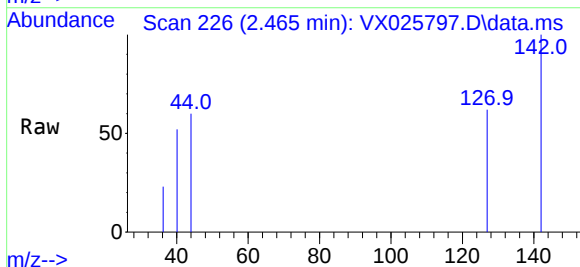
Instrument :
MSVOA_X
ClientSampleId :

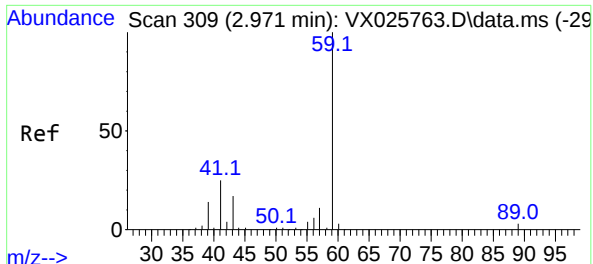
Tgt Ion:101 Resp: 3557
Ion Ratio Lower Upper
101 100
85 49.3 36.5 54.7
151 78.2 60.6 90.8



#10
Methyl Iodide
Concen: 0.394 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.012 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion:142 Resp: 789
Ion Ratio Lower Upper
142 100
127 52.5 37.5 56.3
141 6.2 11.4 17.0#





#11

Tert butyl alcohol

Concen: 0.256 ug/l

RT: 2.947 min Scan# 309

Delta R.T. -0.024 min

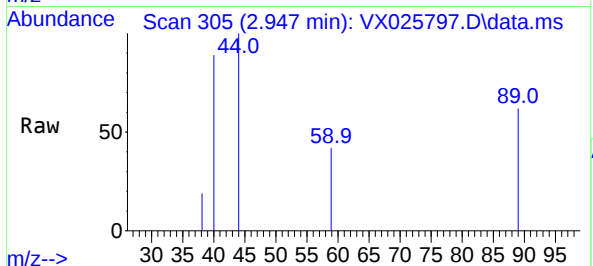
Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :

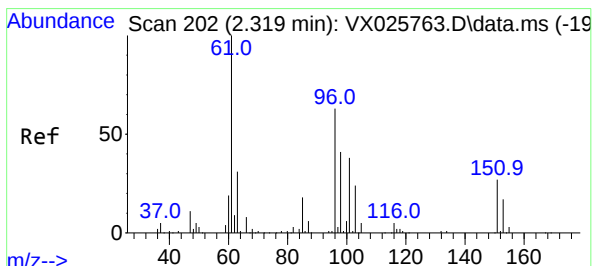
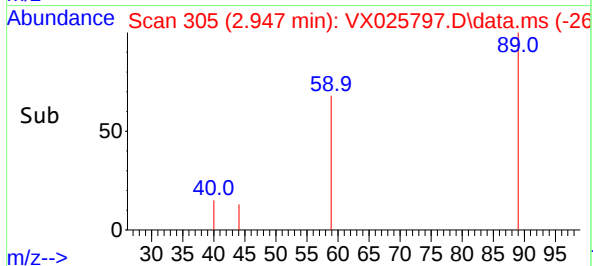
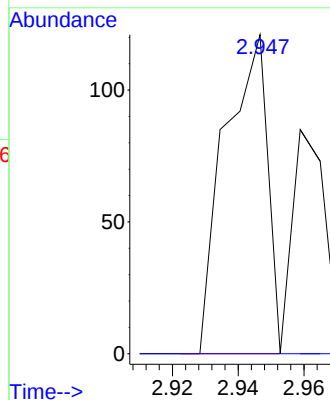


Tgt Ion: 59 Resp: 109

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#12

1,1-Dichloroethene

Concen: 0.650 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

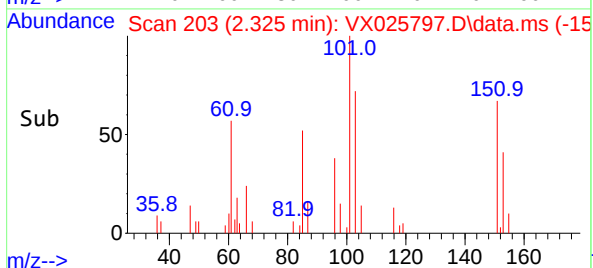
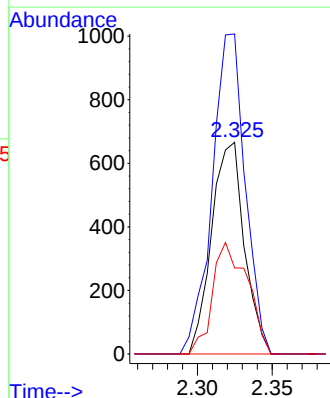
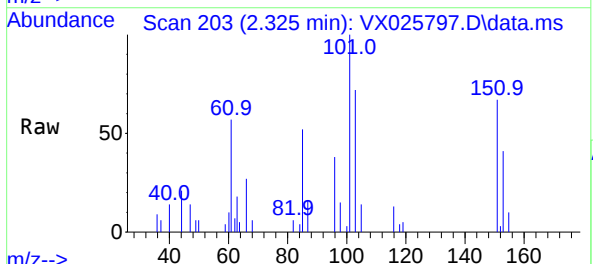
Tgt Ion: 96 Resp: 1015

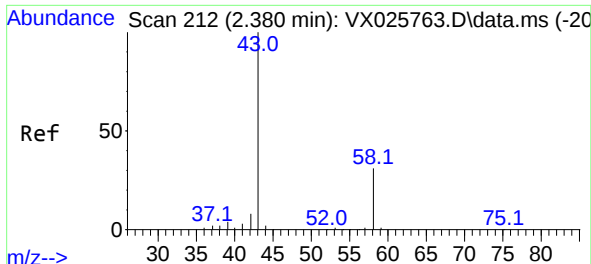
Ion Ratio Lower Upper

96 100

61 151.2 127.5 191.3

98 40.7 52.0 78.0#

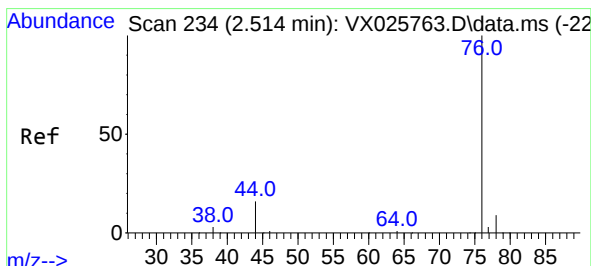
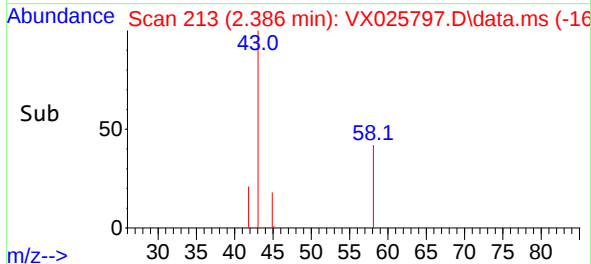
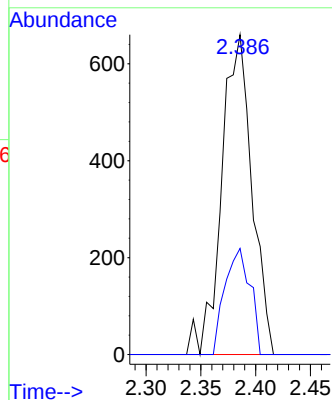
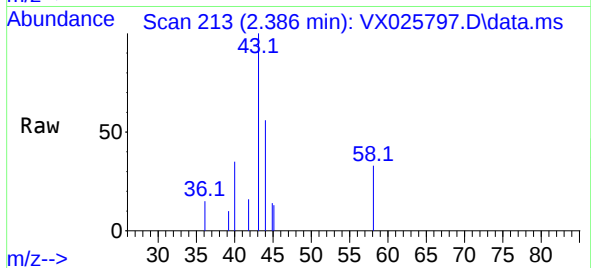




#16
Acetone
Concen: Below Cal
RT: 2.386 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

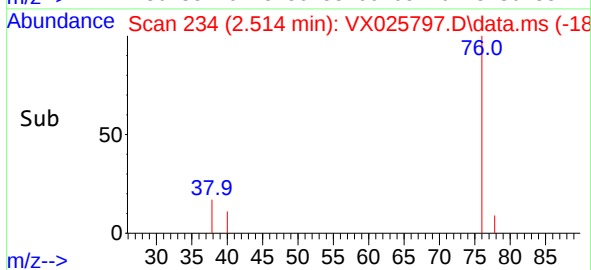
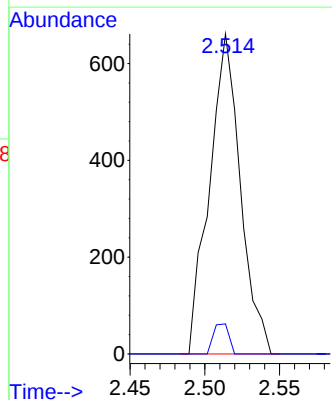
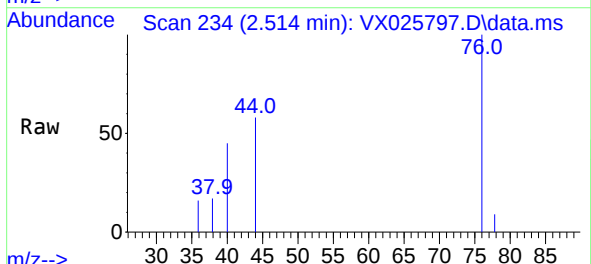
Instrument :
MSVOA_X
ClientSampleId :

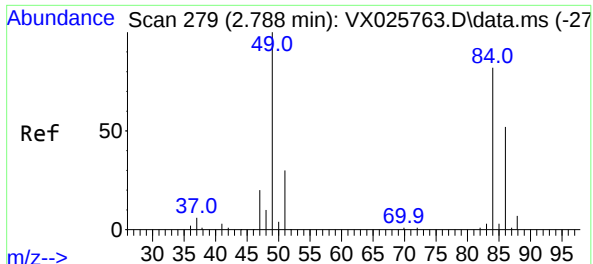
Tgt Ion: 43 Resp: 1269
Ion Ratio Lower Upper
43 100
58 33.2 24.8 37.2



#17
Carbon Disulfide
Concen: 0.213 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion: 76 Resp: 952
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8





#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

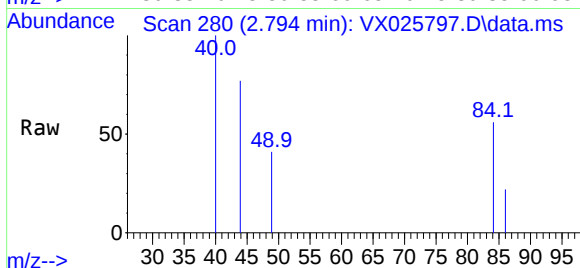
Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 128

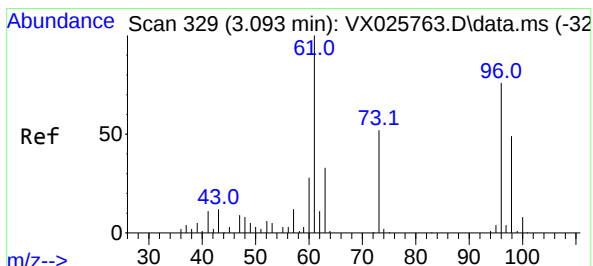
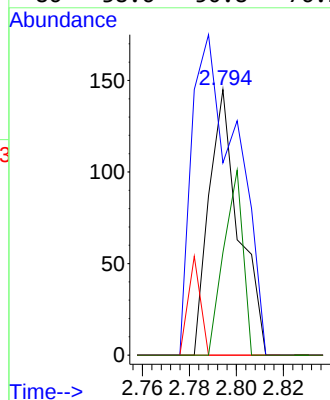
Ion Ratio Lower Upper

84 100

49 72.4 97.1 145.7#

51 0.0 29.3 43.9#

86 38.6 50.8 76.2#



#21

trans-1,2-Dichloroethene

Concen: 0.339 ug/l

RT: 3.093 min Scan# 329

Delta R.T. -0.000 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

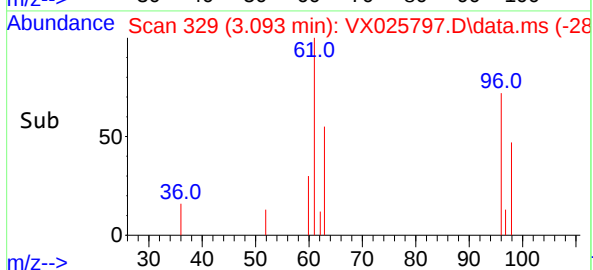
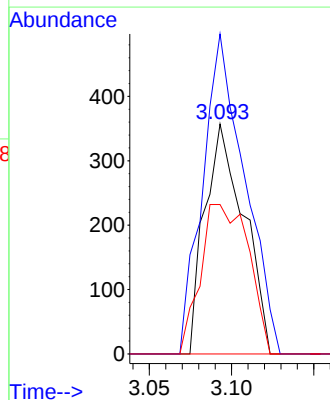
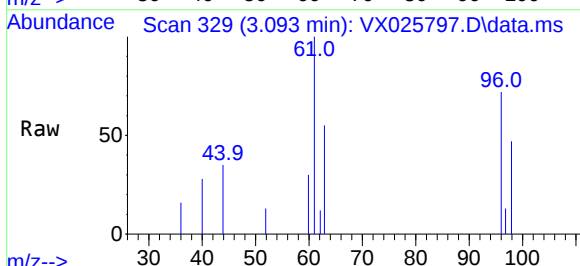
Tgt Ion: 96 Resp: 591

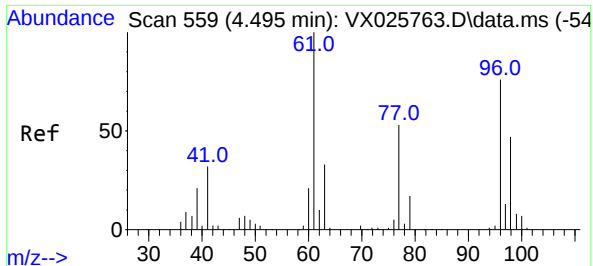
Ion Ratio Lower Upper

96 100

61 139.2 105.7 158.5

98 65.0 52.1 78.1



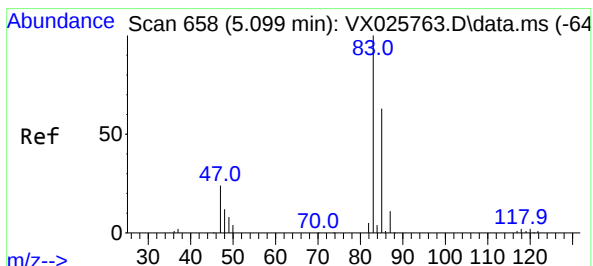
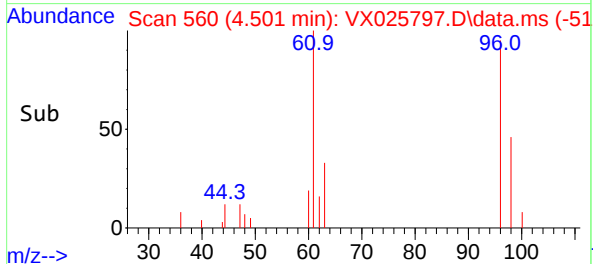
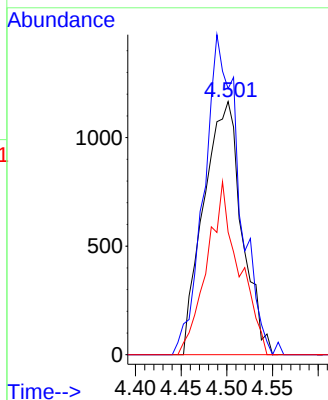
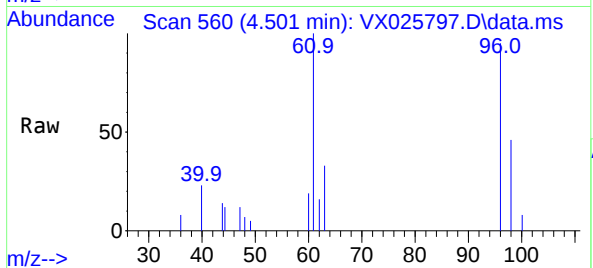


#27
 cis-1,2-Dichloroethene
 Concen: 1.640 ug/l
 RT: 4.501 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX025797.D
 Acq: 14 Dec 2021 23:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tgt Ion: 96 Resp: 3389

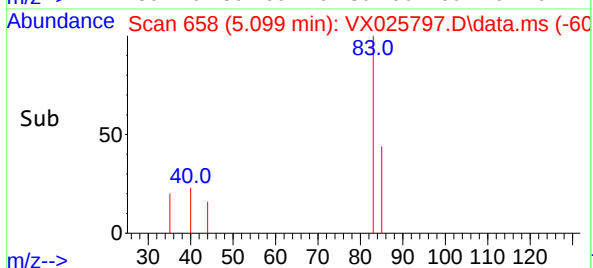
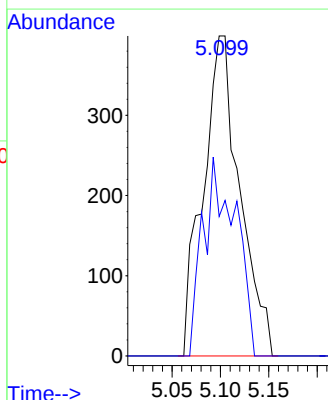
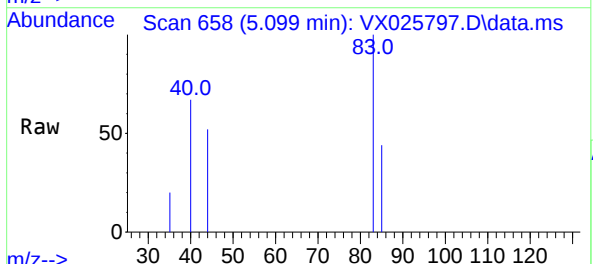
Ion	Ratio	Lower	Upper
96	100		
61	116.7	0.0	276.8
98	57.2	0.0	130.6

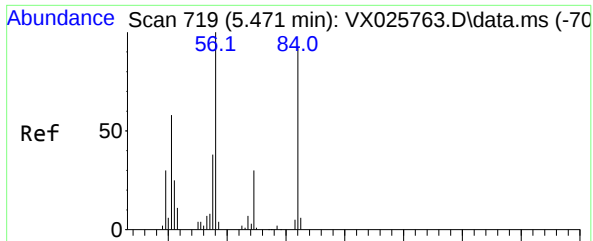


#30
 Chloroform
 Concen: 0.306 ug/l
 RT: 5.099 min Scan# 658
 Delta R.T. -0.000 min
 Lab File: VX025797.D
 Acq: 14 Dec 2021 23:57

Tgt Ion: 83 Resp: 1058

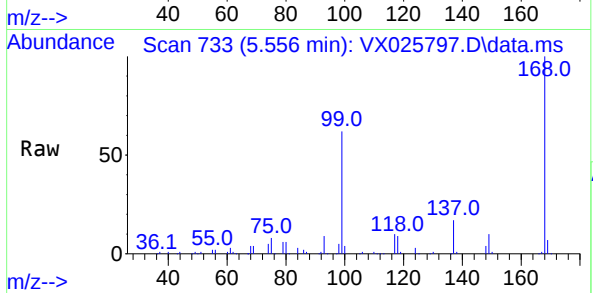
Ion	Ratio	Lower	Upper
83	100		
85	43.6	50.6	75.8#



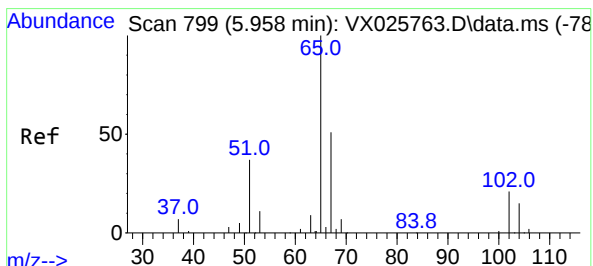
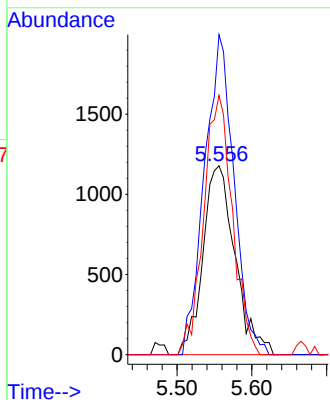
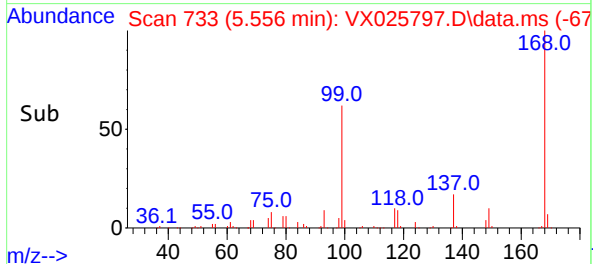


#31
Cyclohexane
Concen: 1.365 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Instrument :
MSVOA_X
ClientSampleId :

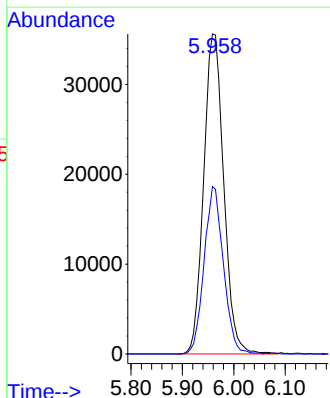
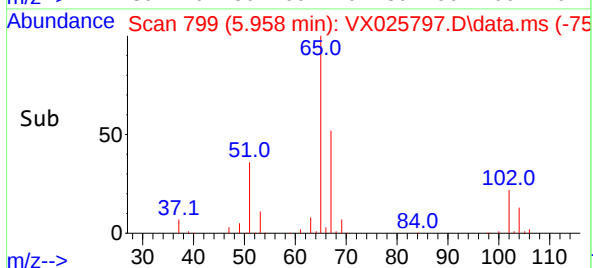
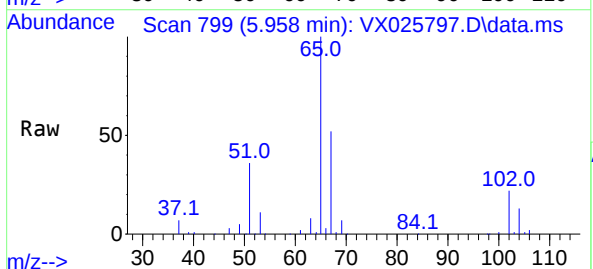


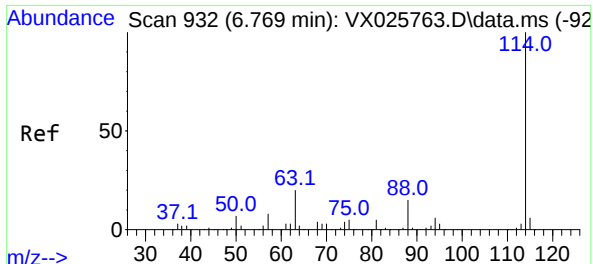
Tgt Ion: 56 Resp: 3523
Ion Ratio Lower Upper
56 100
69 169.3 23.9 35.9#
84 137.2 73.2 109.8#



#33
1,2-Dichloroethane-d4
Concen: 45.528 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion: 65 Resp: 96632
Ion Ratio Lower Upper
65 100
67 50.3 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :

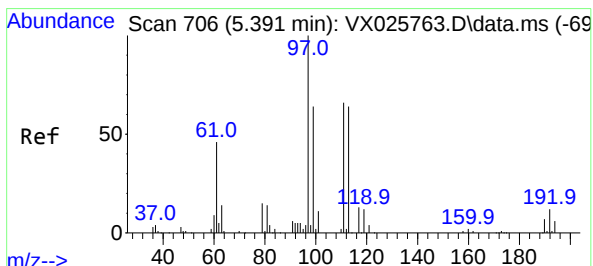
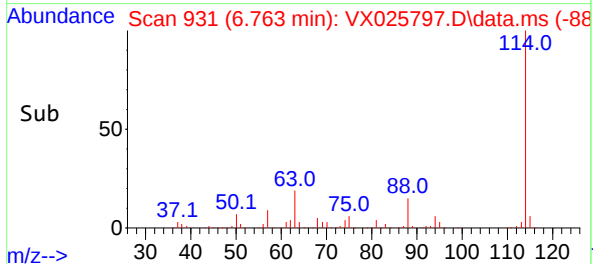
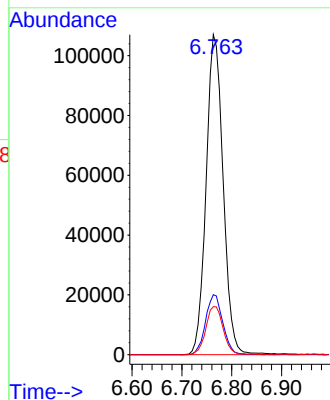
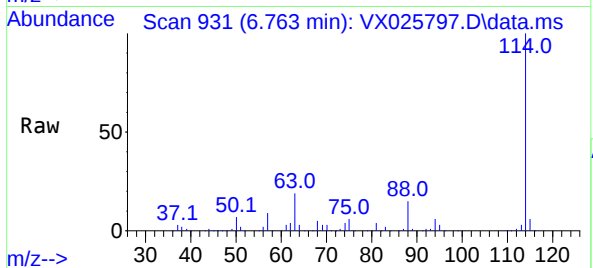
Tgt Ion:114 Resp: 254015

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.075 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

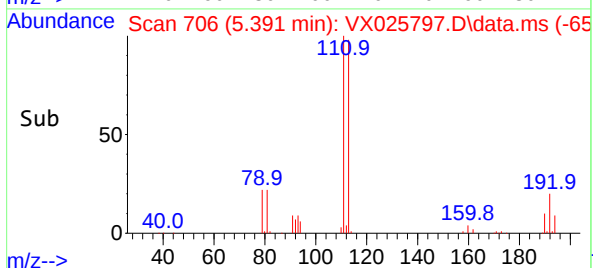
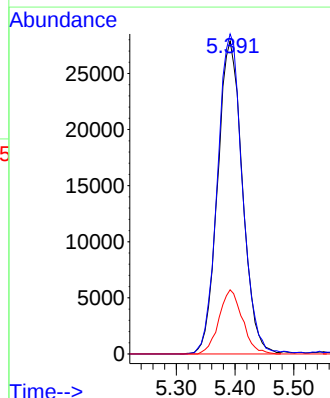
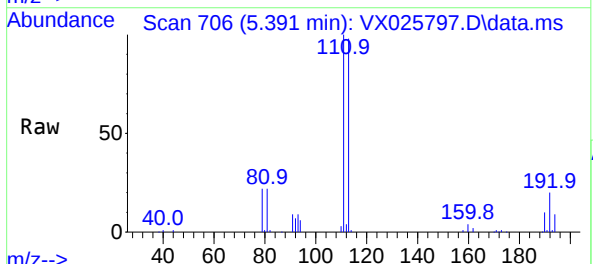
Tgt Ion:113 Resp: 81624

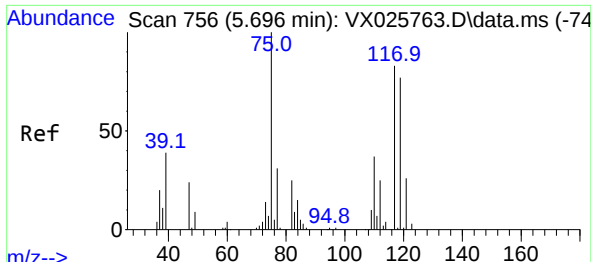
Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

192 19.4 15.0 22.4





#36

1,1-Dichloropropene

Concen: 4.715 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :

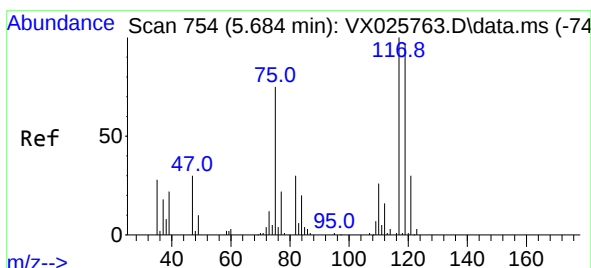
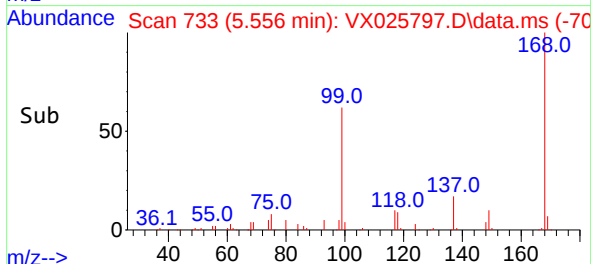
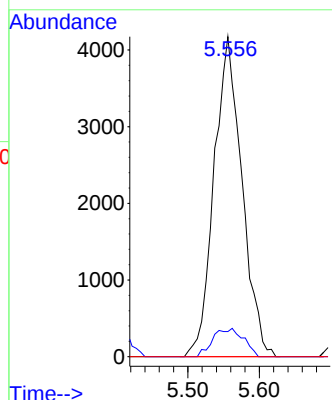
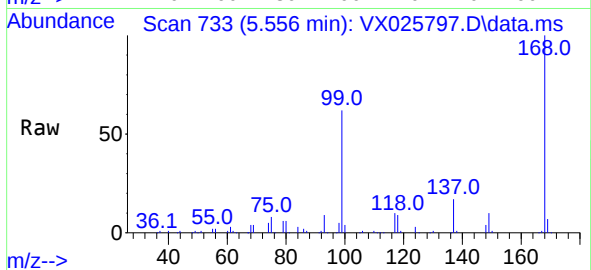
Tgt Ion: 75 Resp: 11328

Ion Ratio Lower Upper

75 100

110 9.7 18.2 54.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 0.337 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

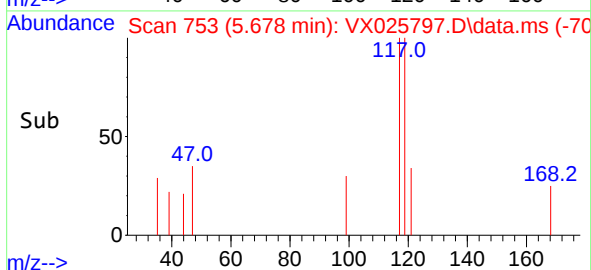
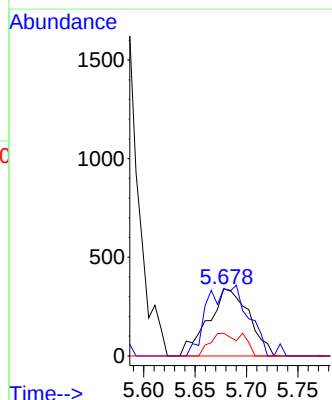
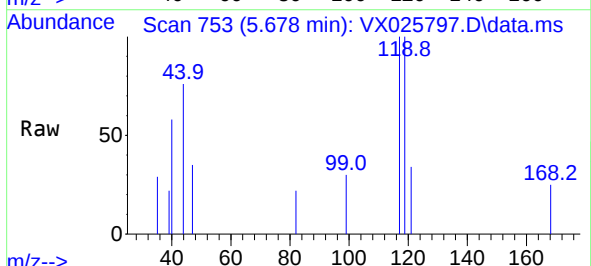
Tgt Ion: 117 Resp: 943

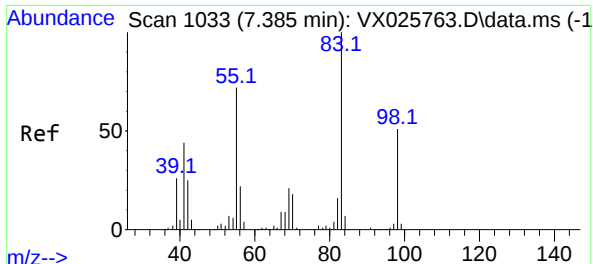
Ion Ratio Lower Upper

117 100

119 100.3 77.2 115.8

121 33.8 23.8 35.8





#39

Methylcyclohexane

Concen: 2.797 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :

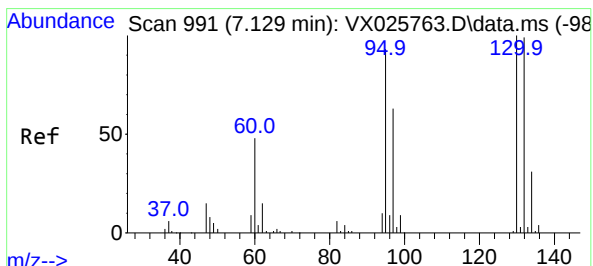
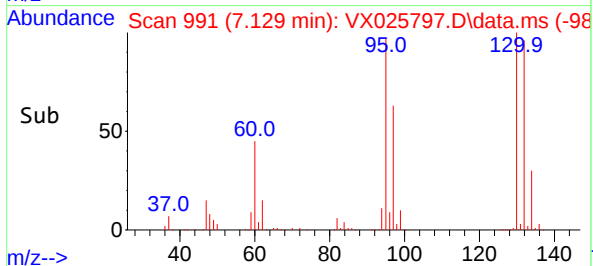
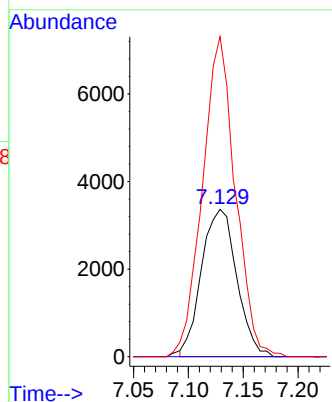
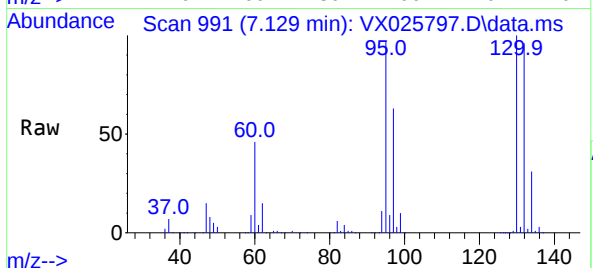
Tgt Ion: 83 Resp: 7518

Ion Ratio Lower Upper

83 100

55 0.0 57.8 86.8#

98 214.8 40.5 60.7#



#44

Trichloroethene

Concen: 307.615 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025797.D

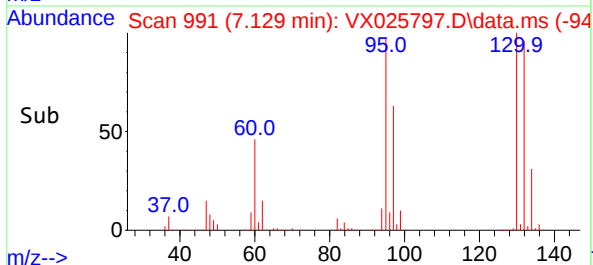
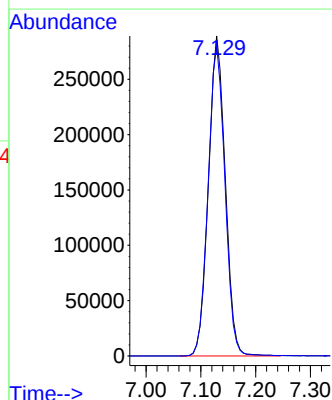
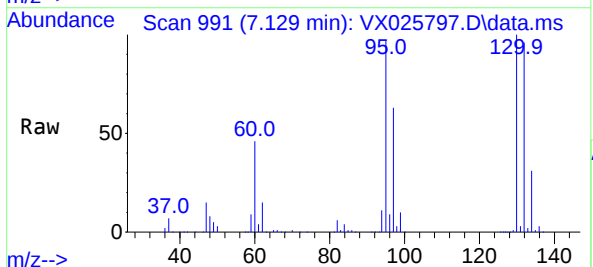
Acq: 14 Dec 2021 23:57

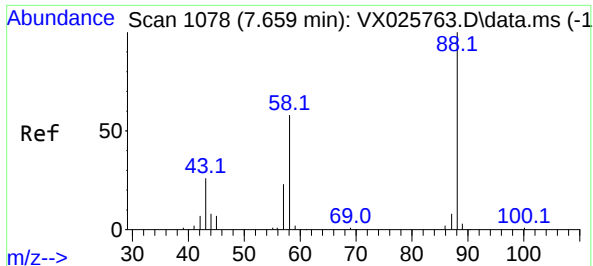
Tgt Ion:130 Resp: 613729

Ion Ratio Lower Upper

130 100

95 97.1 0.0 186.4





#49

1,4-Dioxane

Concen: 10.767 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.012 min

Lab File: VX025797.D

Acq: 14 Dec 2021 23:57

Instrument :

MSVOA_X

ClientSampleId :

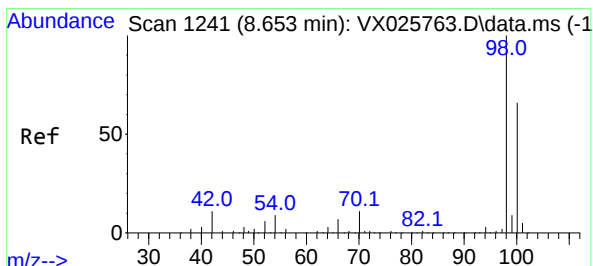
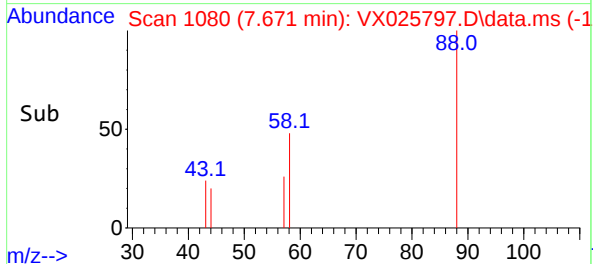
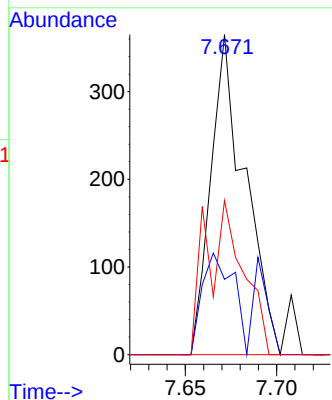
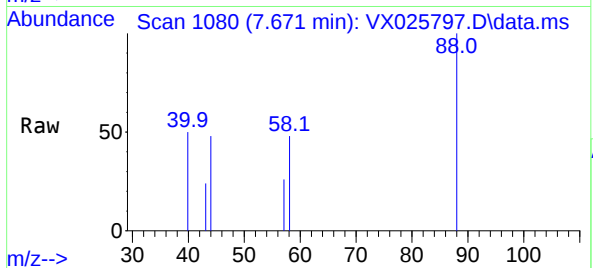
Tgt Ion: 88 Resp: 476

Ion Ratio Lower Upper

88 100

43 29.0 25.3 37.9

58 52.3 51.8 77.6



#50

Toluene-d8

Concen: 45.997 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025797.D

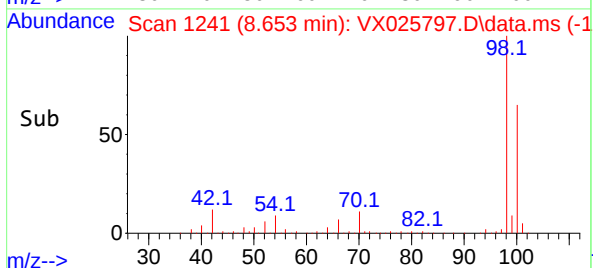
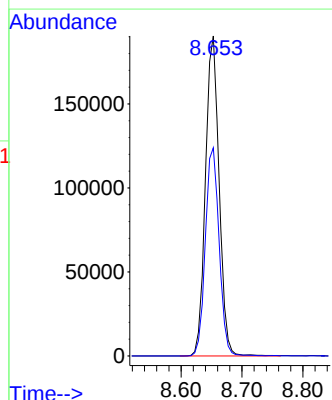
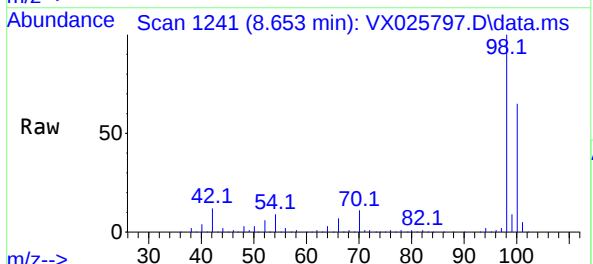
Acq: 14 Dec 2021 23:57

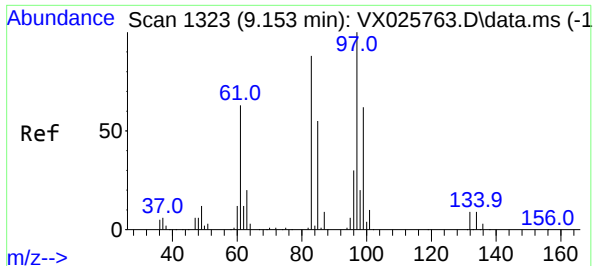
Tgt Ion: 98 Resp: 296893

Ion Ratio Lower Upper

98 100

100 65.6 52.6 78.8



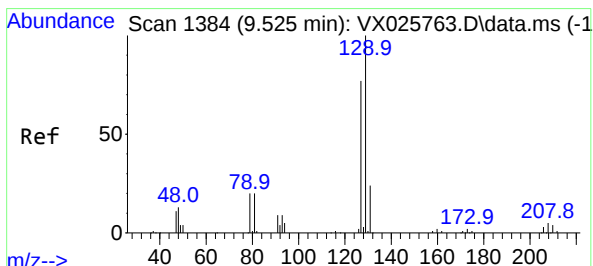
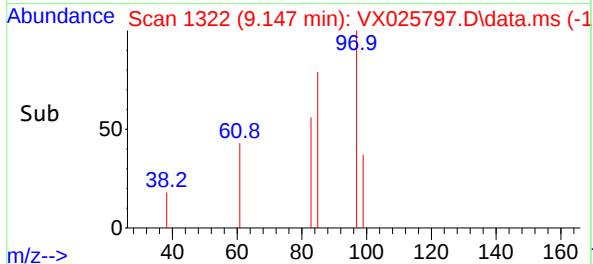
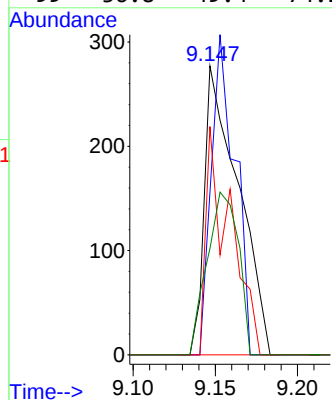
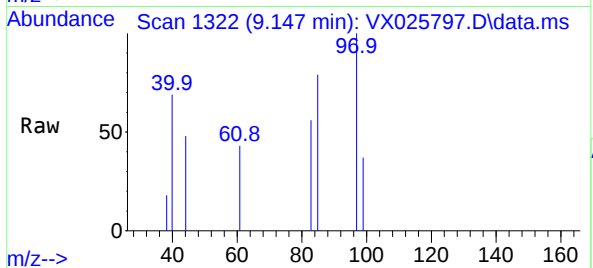


#55
1,1,2-Trichloroethane
Concen: 0.202 ug/l
RT: 9.147 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 97 Resp: 395

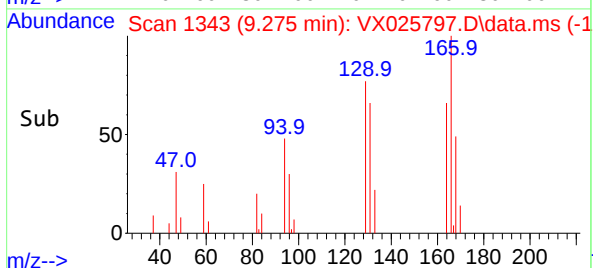
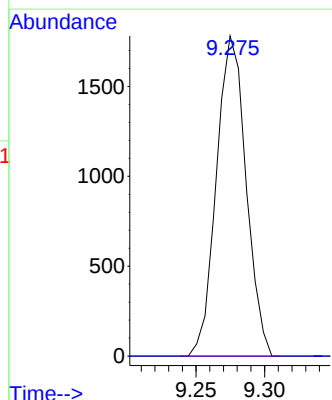
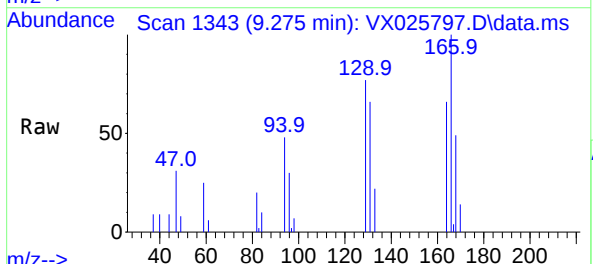
Ion	Ratio	Lower	Upper
97	100		
83	56.3	70.5	105.7#
85	79.1	43.8	65.6#
99	36.8	49.4	74.2#

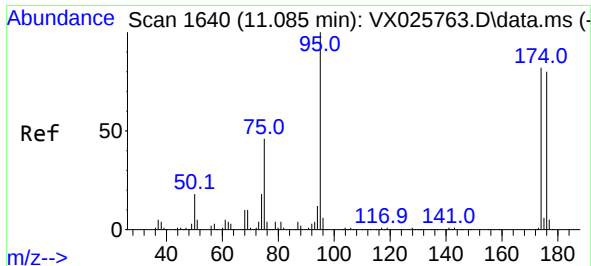


#60
Dibromochloromethane
Concen: 1.205 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.250 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion: 129 Resp: 2679

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	115.7#

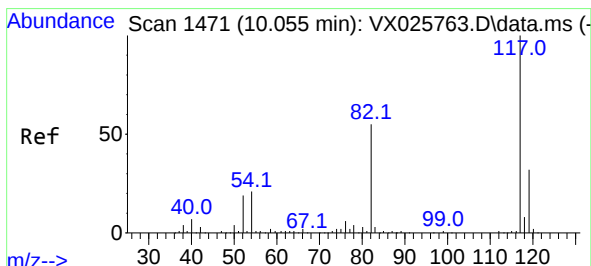
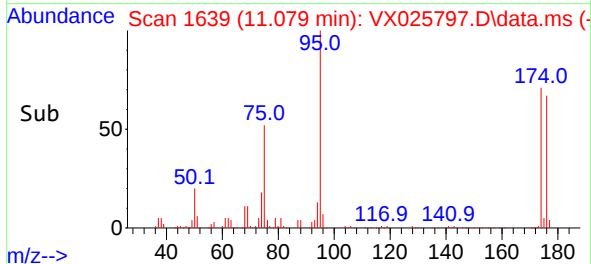
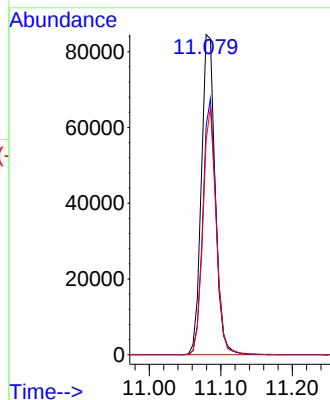
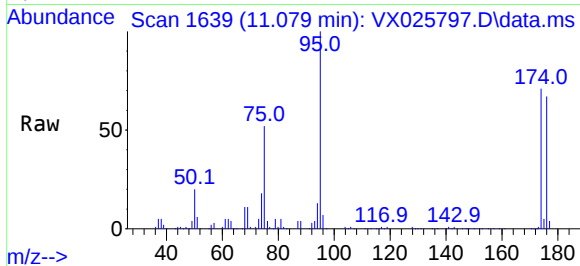




#62
4-Bromofluorobenzene
Concen: 45.963 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

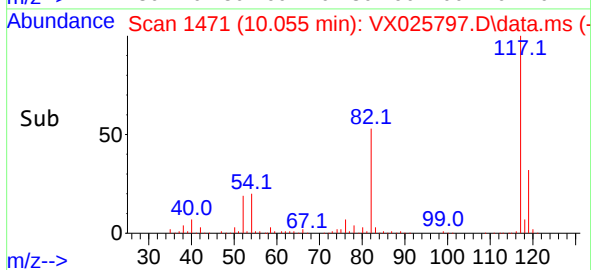
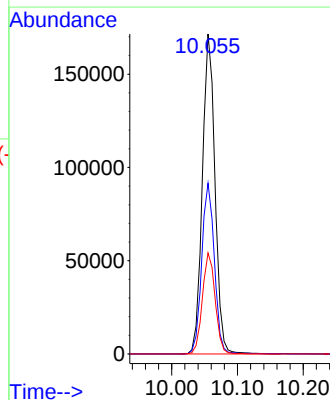
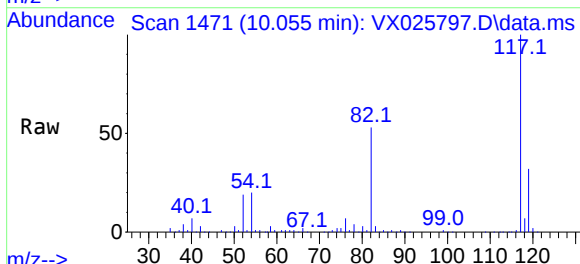
Instrument :
MSVOA_X
ClientSampleId :

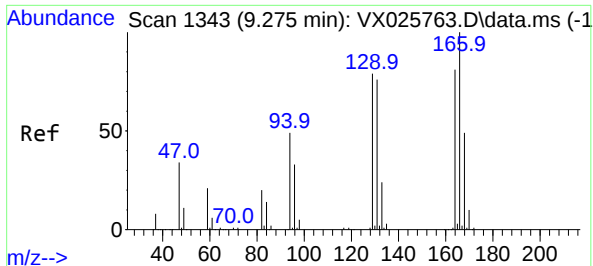
Tgt Ion: 95 Resp: 112694
Ion Ratio Lower Upper
95 100
174 77.9 0.0 157.4
176 74.2 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

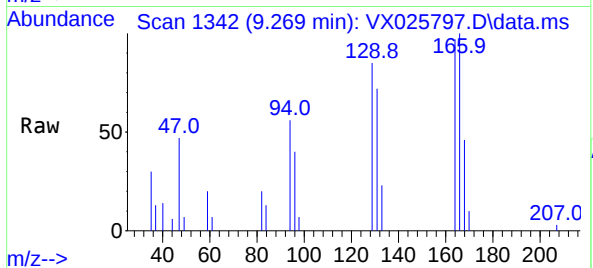
Tgt Ion: 117 Resp: 229396
Ion Ratio Lower Upper
117 100
82 53.4 43.8 65.6
119 31.5 25.2 37.8



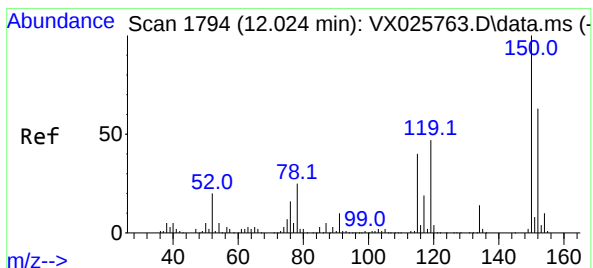
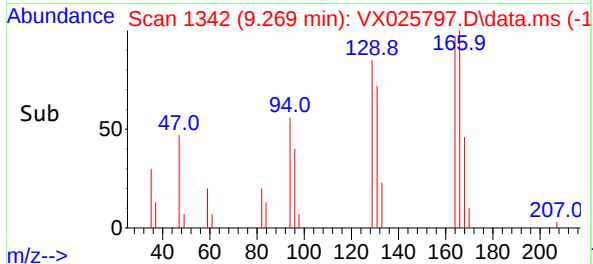
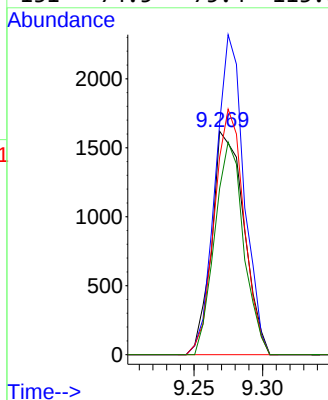


#64
Tetrachloroethene
Concen: 1.447 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Instrument :
MSVOA_X
ClientSampleId :

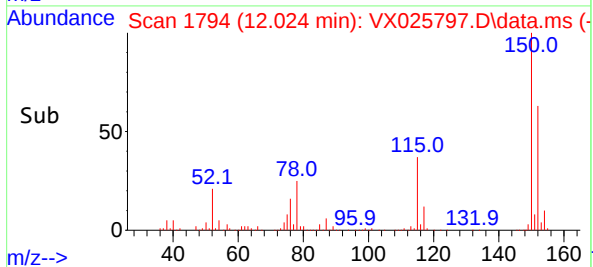
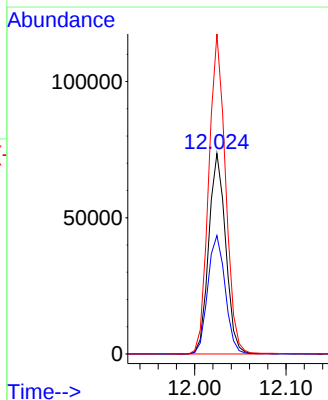
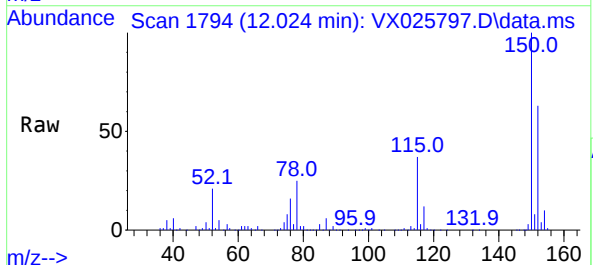


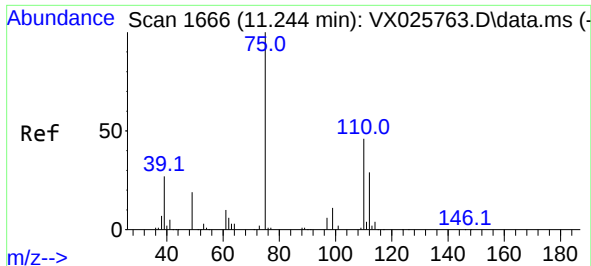
Tgt Ion:164 Resp: 2647
Ion Ratio Lower Upper
164 100
166 103.5 99.4 149.0
129 88.4 78.6 118.0
131 74.5 75.4 113.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion:152 Resp: 94396
Ion Ratio Lower Upper
152 100
115 61.1 41.3 123.9
150 158.7 0.0 351.8

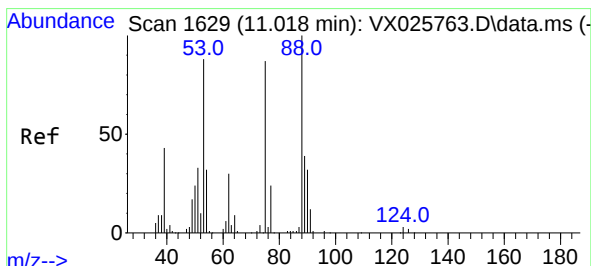
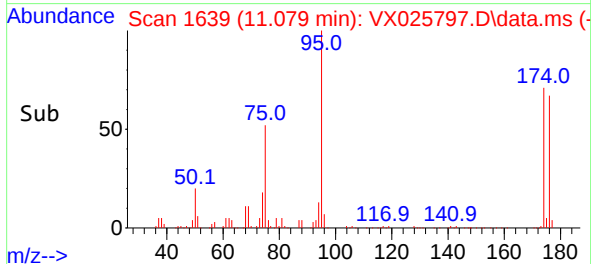
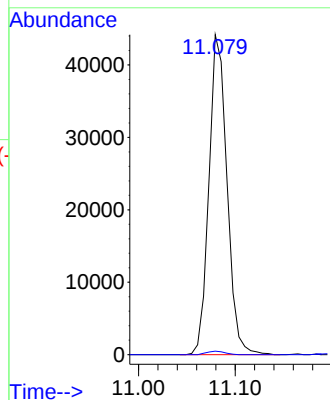
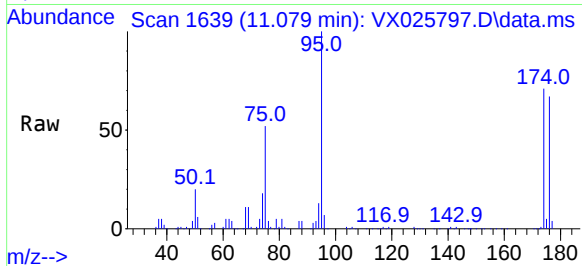




#76
1,2,3-Trichloropropane
Concen: 26.555 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

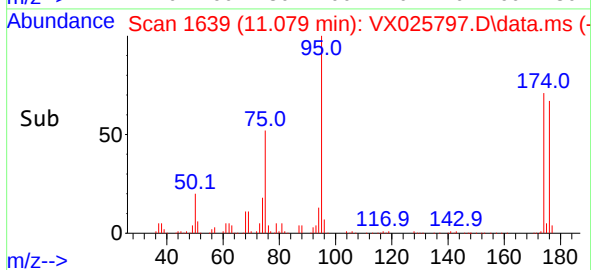
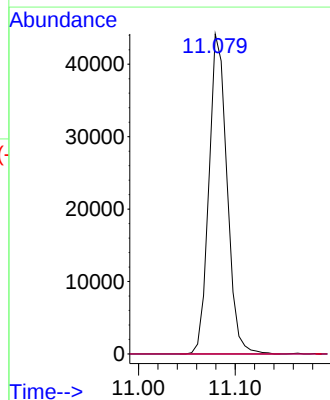
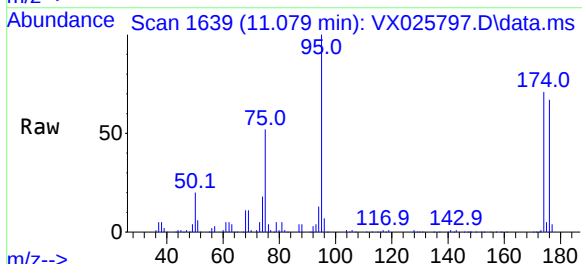
Instrument :
MSVOA_X
ClientSampleId :

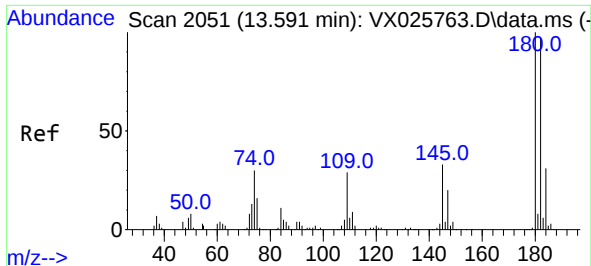
Tgt Ion: 75 Resp: 57433
Ion Ratio Lower Upper
75 100
77 1.1 19.0 57.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.328 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

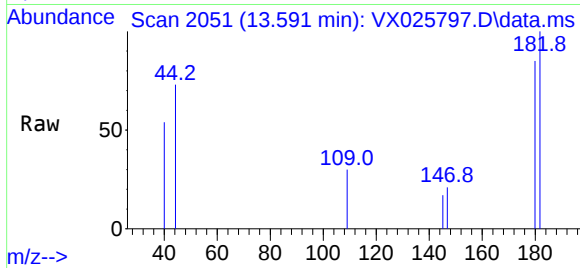
Tgt Ion: 75 Resp: 57433
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 38.3 57.5#



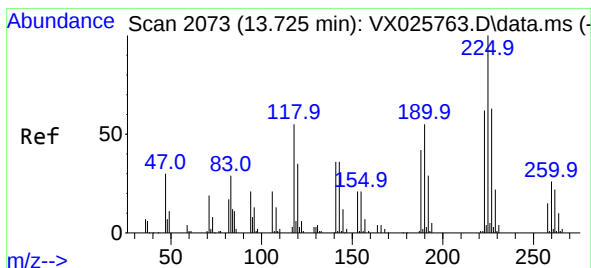
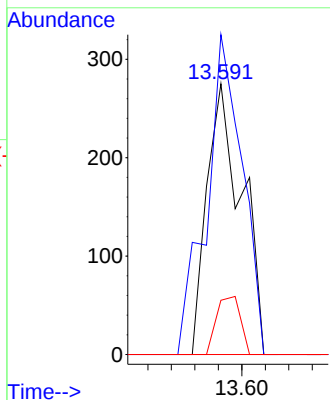
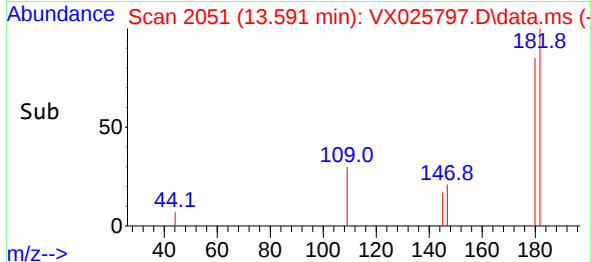


#93
1,2,4-Trichlorobenzene
Concen: 3.510 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

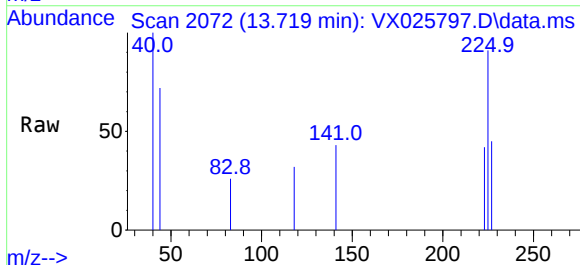
Instrument :
MSVOA_X
ClientSampleId :



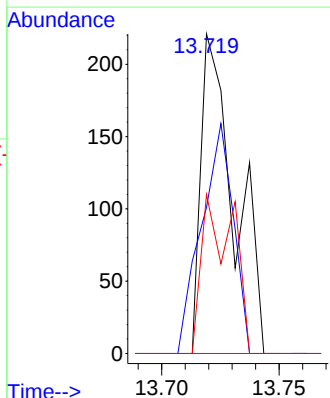
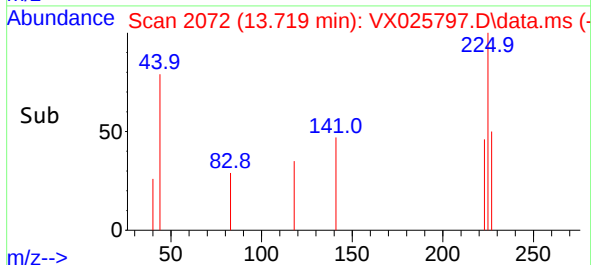
Tgt Ion:180 Resp: 283
Ion Ratio Lower Upper
180 100
182 121.6 47.2 141.6
145 14.8 16.3 48.9#

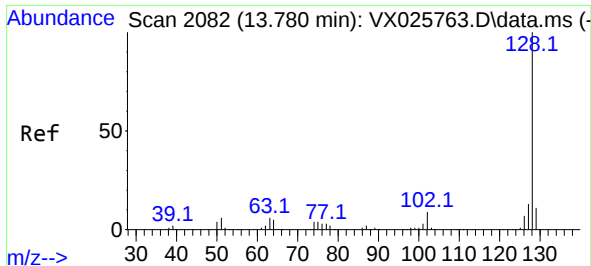


#94
Hexachlorobutadiene
Concen: 0.326 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57



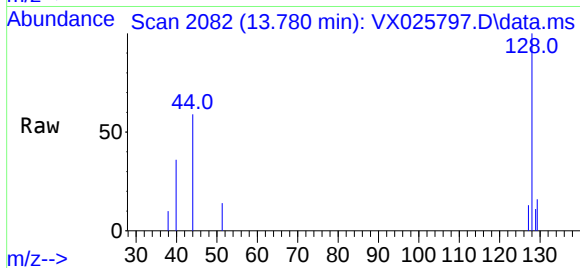
Tgt Ion:225 Resp: 217
Ion Ratio Lower Upper
225 100
223 69.1 31.6 95.0
227 46.5 32.5 97.5



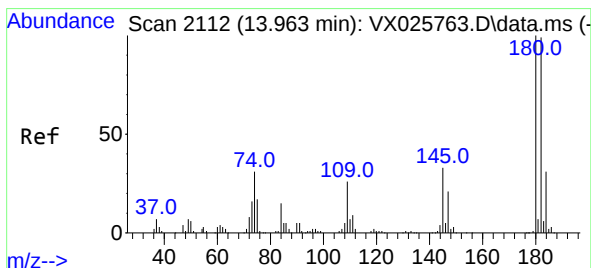
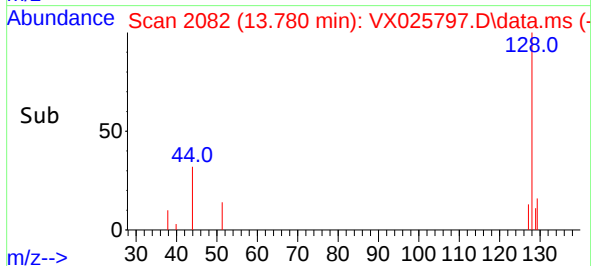
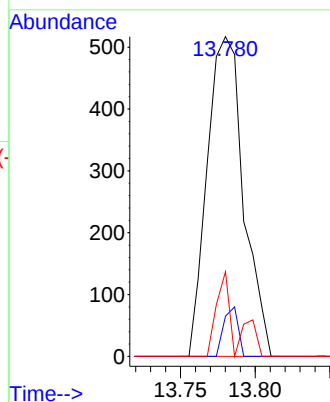


#95
Naphthalene
Concen: 2.540 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 874
Ion Ratio Lower Upper
128 100
127 6.1 10.3 15.5#
129 13.8 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 3.126 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX025797.D
Acq: 14 Dec 2021 23:57

Tgt Ion:180 Resp: 263
Ion Ratio Lower Upper
180 100
182 119.0 47.5 142.6
145 0.0 16.7 50.1#

