

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122324\
 Data File : VX044485.D
 Acq On : 23 Dec 2024 17:09
 Operator : JC/MD
 Sample : P5317-21 40X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

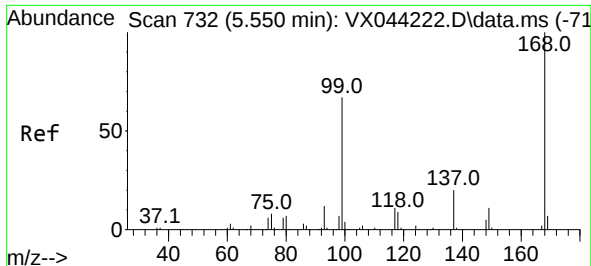
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D6-20241217

Quant Time: Dec 23 22:13:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 12 04:28:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	144075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249365	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	221444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	102248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104514	41.374	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	82.740%		
35) Dibromofluoromethane	5.385	113	82534	47.788	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.580%		
50) Toluene-d8	8.647	98	310298	53.255	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	106.500%		
62) 4-Bromofluorobenzene	11.079	95	102247	50.220	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.440%		
Target Compounds						Qvalue
5) Bromomethane	1.593	94	643	0.408	ug/l #	72
6) Chloroethane	1.678	64	307	0.222	ug/l #	41
9) 1,1,2-Trichlorotrifluo...	2.319	101	1168	0.664	ug/l #	87
11) Tert butyl alcohol	2.940	59	5236	14.707	ug/l #	71
12) 1,1-Dichloroethene	2.319	96	625	0.387	ug/l #	84
13) Acrolein	2.245	56	132	0.256	ug/l #	36
14) Allyl chloride	2.660	41	736	0.274	ug/l #	68
15) Acrylonitrile	3.081	53	242	0.245	ug/l #	65
16) Acetone	2.392	43	547	0.531	ug/l #	81
17) Carbon Disulfide	2.501	76	1291	0.421	ug/l	98
21) trans-1,2-Dichloroethene	3.093	96	412	0.240	ug/l #	51
31) Cyclohexane	5.537	56	3577	1.312	ug/l #	33
36) 1,1-Dichloropropene	5.544	75	11902	5.331	ug/l #	49
38) Carbon Tetrachloride	5.544	117	14934	6.213	ug/l #	17
44) Trichloroethene	7.123	130	67143	39.722	ug/l	92
49) 1,4-Dioxane	7.683	88	20	0.576	ug/l #	32
53) t-1,3-Dichloropropene	9.006	75	170	1.066	ug/l #	41
60) Dibromochloromethane	9.525	129	19	1.242	ug/l #	1
64) Tetrachloroethene	9.268	164	428	0.291	ug/l #	76
68) m/p-Xylenes	10.311	106	702	0.233	ug/l	89
71) Bromoform	10.805	173	97	1.329	ug/l #	29
76) 1,2,3-Trichloropropane	11.079	75	56229	24.630	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	56229	68.281	ug/l #	4
87) 1,3-Dichlorobenzene	11.969	146	795	0.240	ug/l	92
88) 1,4-Dichlorobenzene	11.969	146	795	0.233	ug/l	93
93) 1,2,4-Trichlorobenzene	13.597	180	560	0.297	ug/l	92
95) Naphthalene	13.780	128	2946	0.400	ug/l	95
96) 1,2,3-Trichlorobenzene	13.969	180	720	0.360	ug/l	96

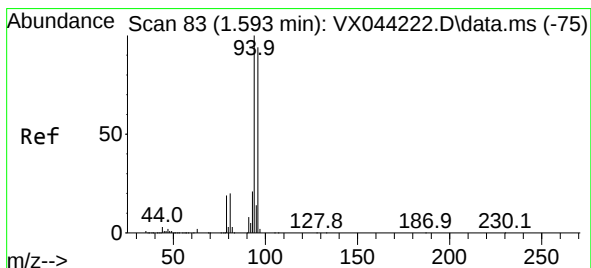
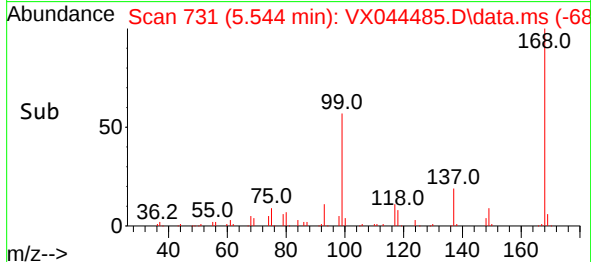
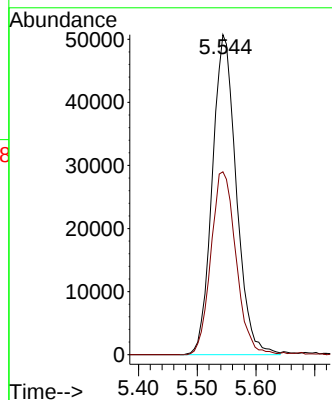
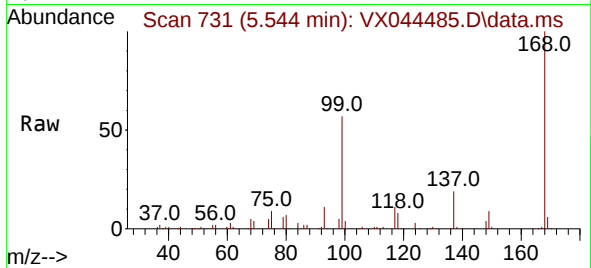
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

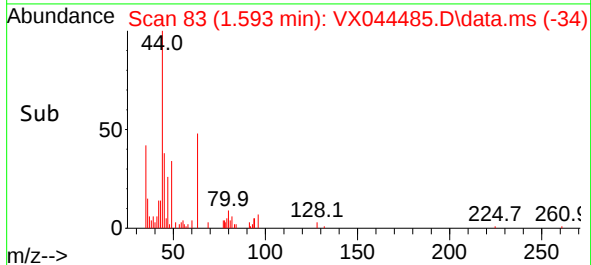
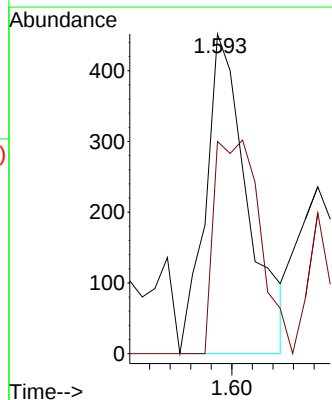
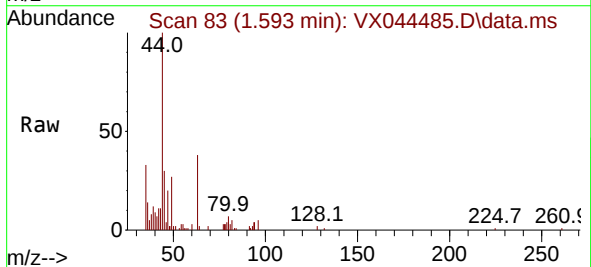
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

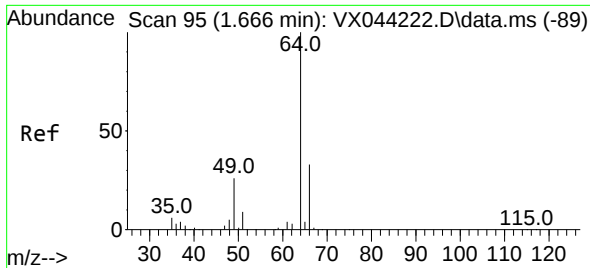
Tgt Ion:168 Resp: 144075
Ion Ratio Lower Upper
168 100
99 57.1 53.4 80.0



#5
Bromomethane
Concen: 0.408 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 94 Resp: 643
Ion Ratio Lower Upper
94 100
96 66.4 74.9 112.3#

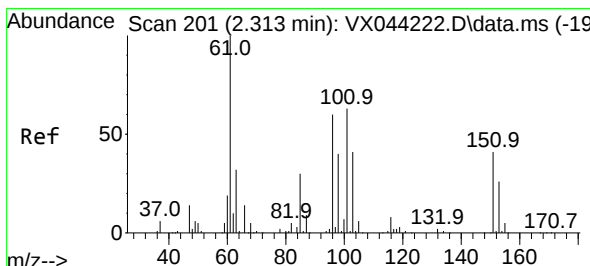
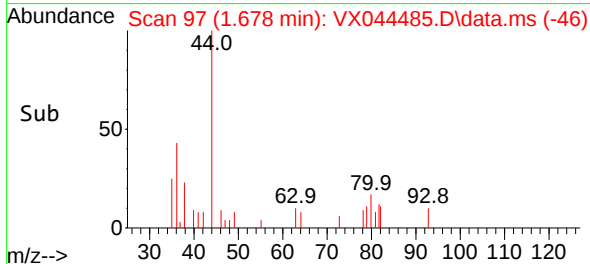
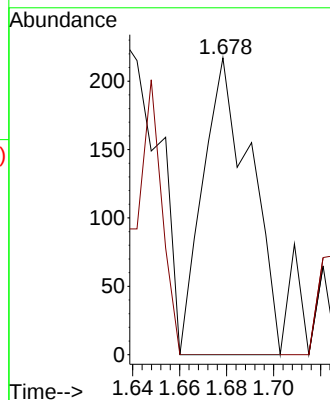
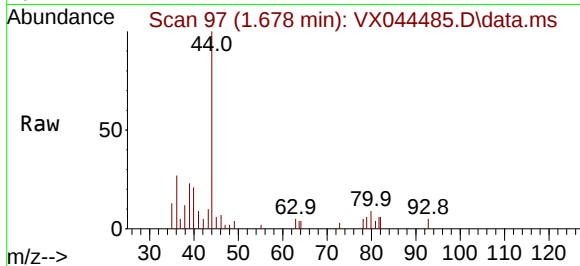




#6
Chloroethane
Concen: 0.222 ug/l
RT: 1.678 min Scan# 91
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

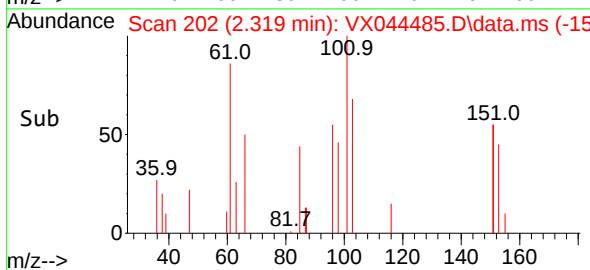
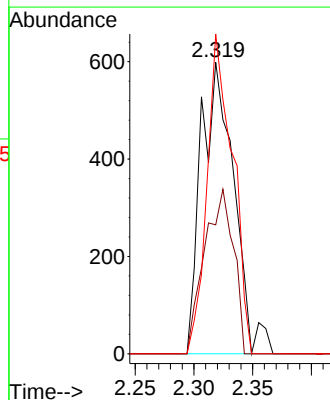
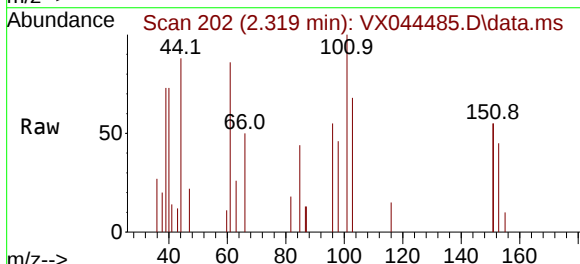
Instrument :
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ClientSampleId :
RE132D6-20241217

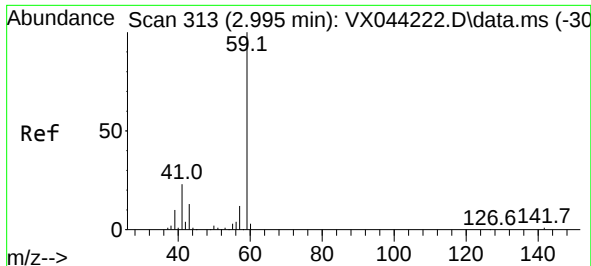
Tgt Ion: 64 Resp: 307
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.664 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 101 Resp: 1168
Ion Ratio Lower Upper
101 100
85 49.7 38.5 57.7
151 85.7 55.8 83.6#

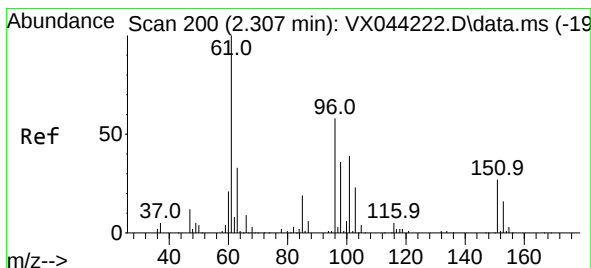
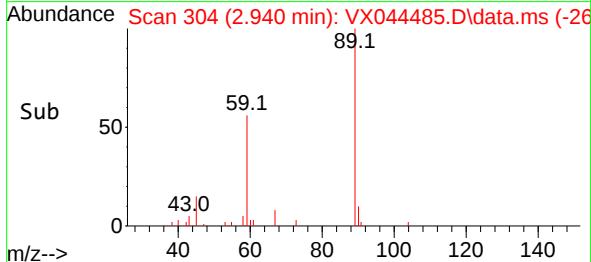
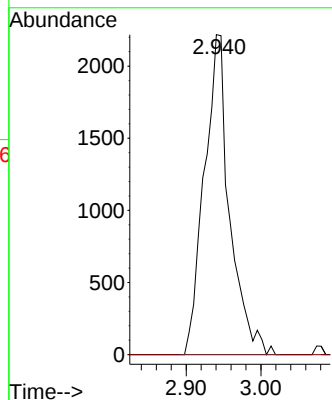
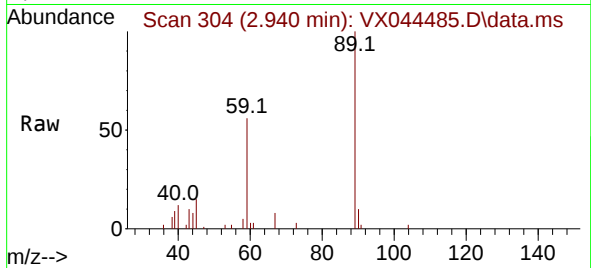




#11
Tert butyl alcohol
Concen: 14.707 ug/l
RT: 2.940 min Scan# 30
Delta R.T. -0.055 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

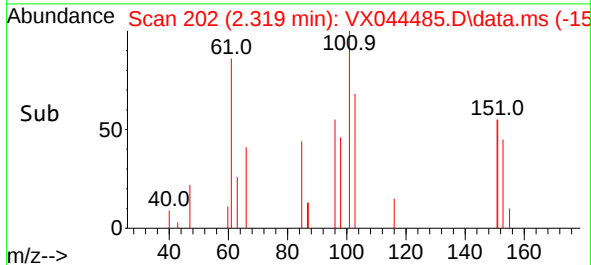
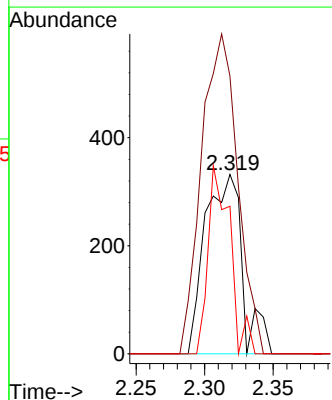
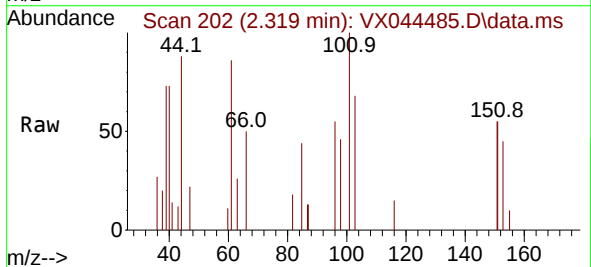
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

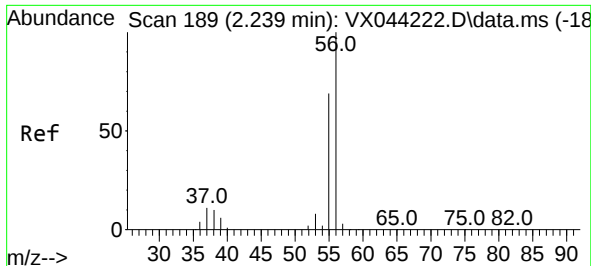
Tgt Ion: 59 Resp: 5236
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#12
1,1-Dichloroethene
Concen: 0.387 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 96 Resp: 625
Ion Ratio Lower Upper
96 100
61 154.8 138.0 207.0
98 82.2 50.0 75.0#





#13

Acrolein

Concen: 0.256 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Instrument :

MSVOA_X

ClientSampleId :

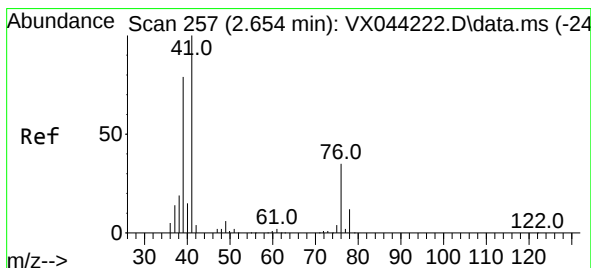
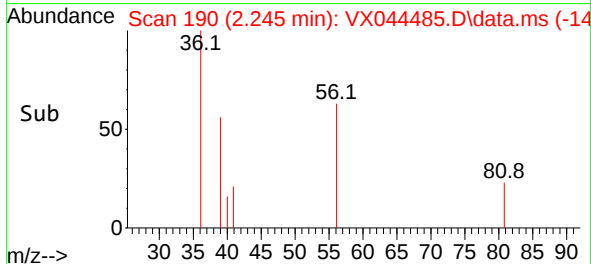
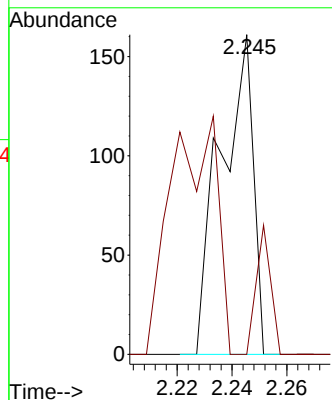
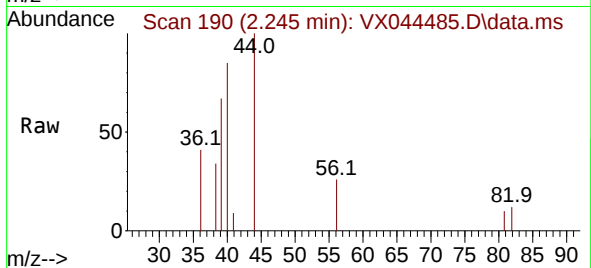
RE132D6-20241217

Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

55 18.2 56.6 84.8#



#14

Allyl chloride

Concen: 0.274 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

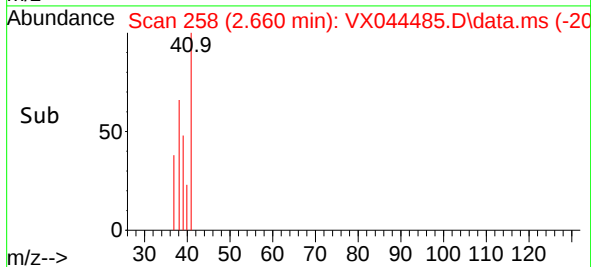
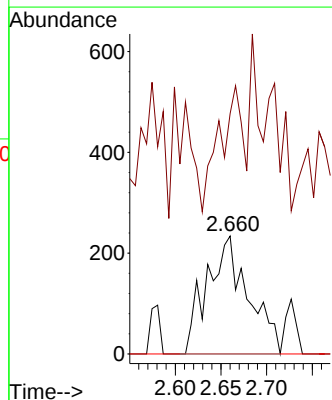
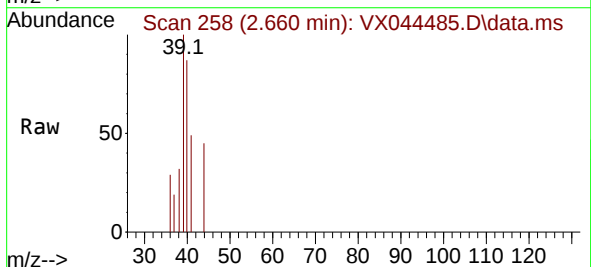
Tgt Ion: 41 Resp: 736

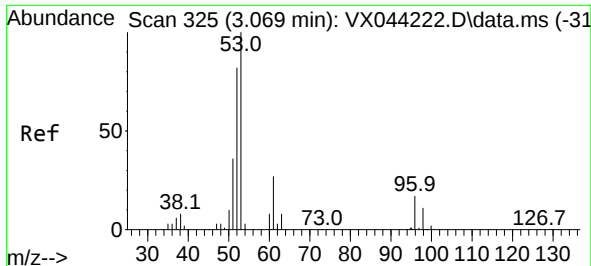
Ion Ratio Lower Upper

41 100

39 59.8 61.9 92.9#

76 0.0 27.4 41.2#

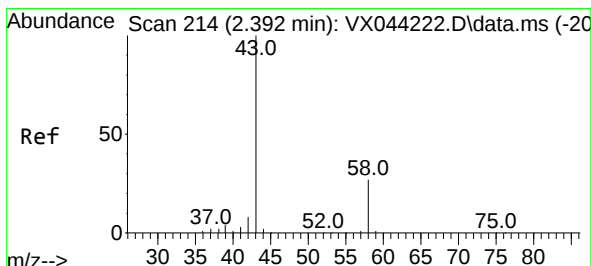
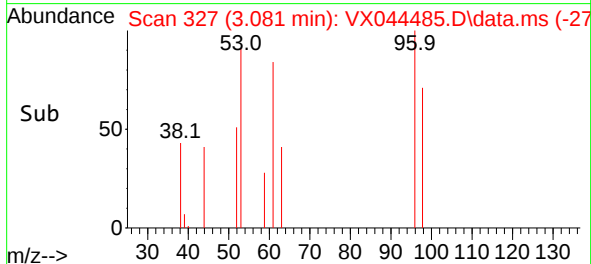
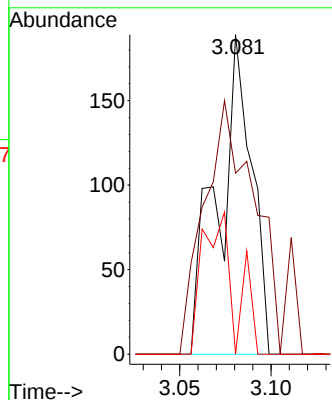
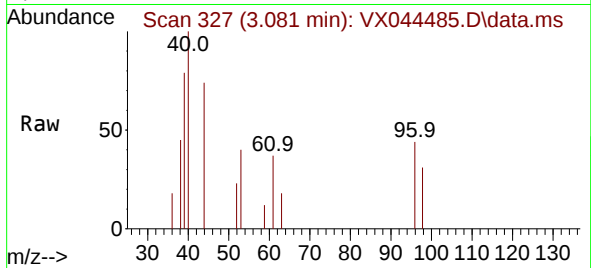




#15
Acrylonitrile
Concen: 0.245 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

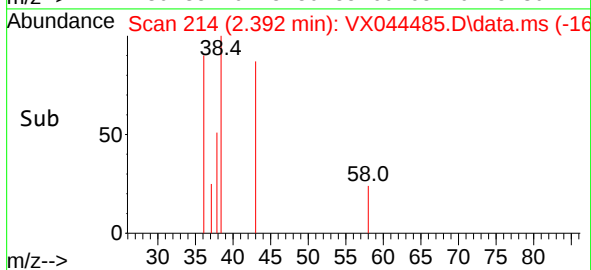
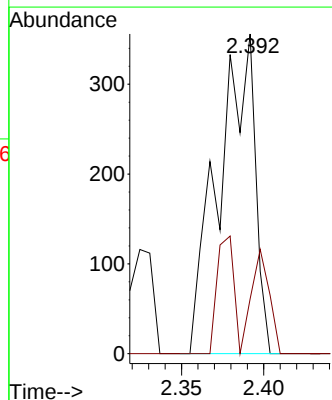
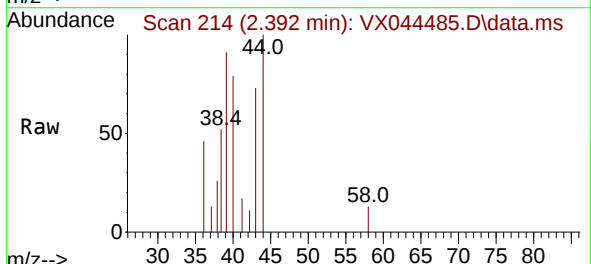
Instrument :
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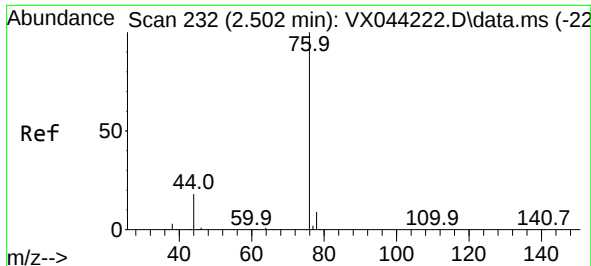
Tgt Ion: 53 Resp: 242
Ion Ratio Lower Upper
53 100
52 127.7 67.4 101.0#
51 42.6 30.3 45.5



#16
Acetone
Concen: 0.531 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 43 Resp: 547
Ion Ratio Lower Upper
43 100
58 17.1 21.6 32.4#

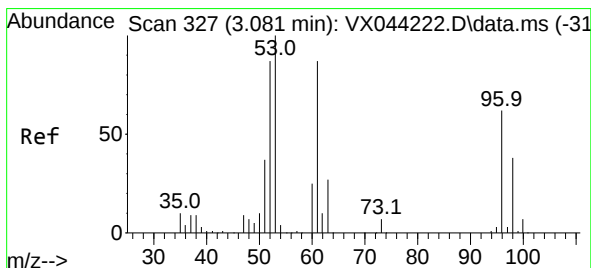
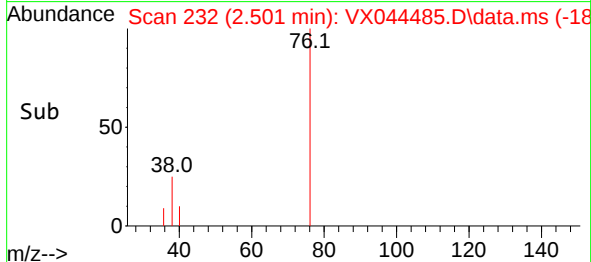
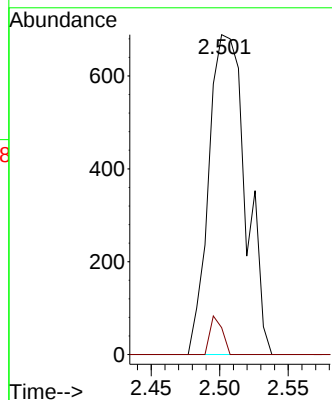
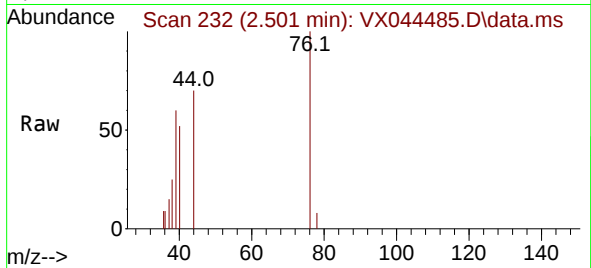




#17
Carbon Disulfide
Concen: 0.421 ug/l
RT: 2.501 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

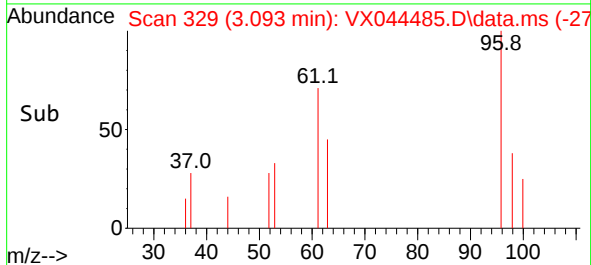
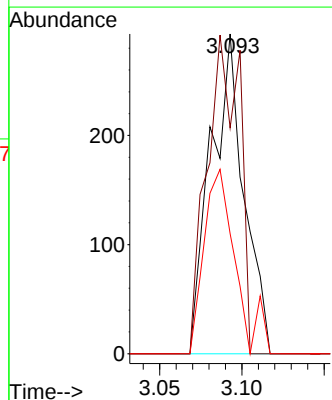
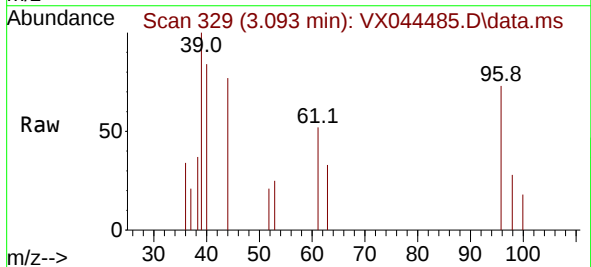
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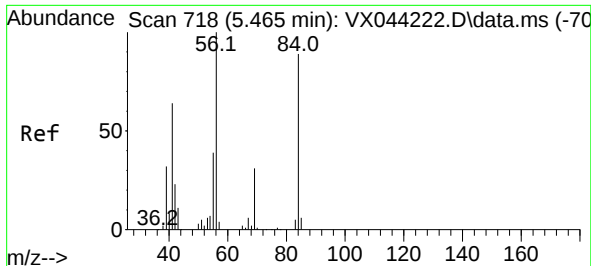
Tgt Ion: 76 Resp: 1291
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.0



#21
trans-1,2-Dichloroethene
Concen: 0.240 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 96 Resp: 412
Ion Ratio Lower Upper
96 100
61 70.6 112.0 168.0#
98 37.5 48.8 73.2#

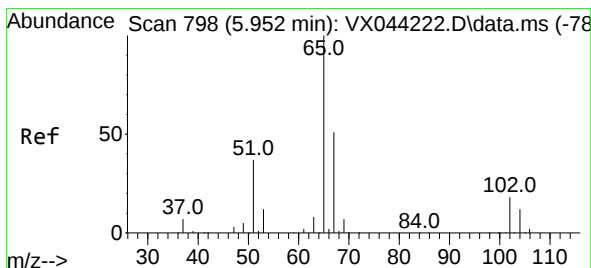
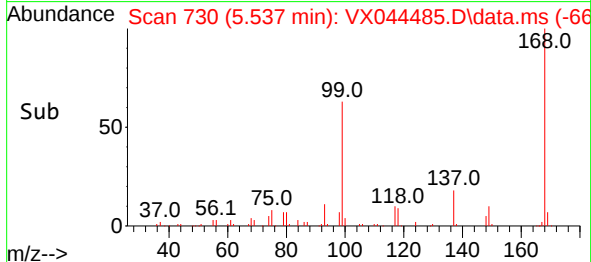
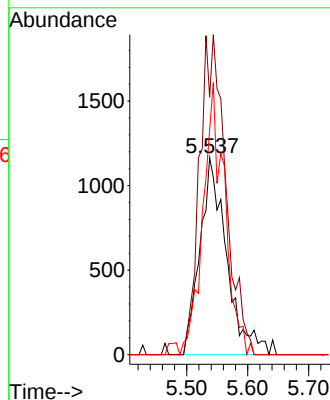
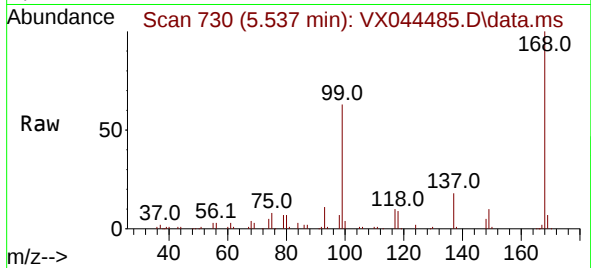




#31
Cyclohexane
Concen: 1.312 ug/l
RT: 5.537 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

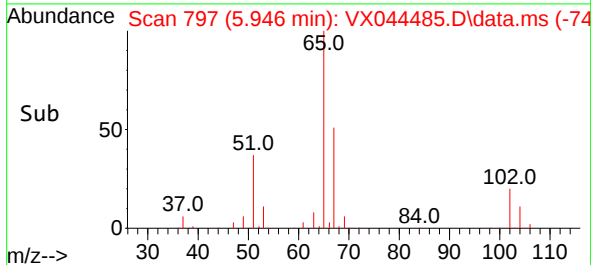
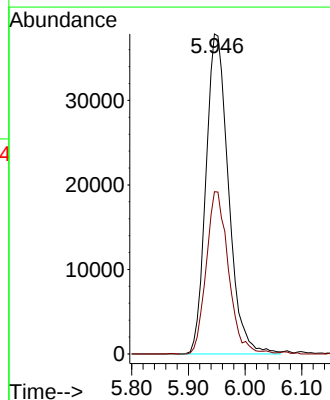
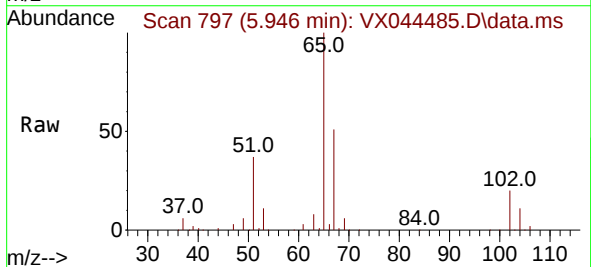
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

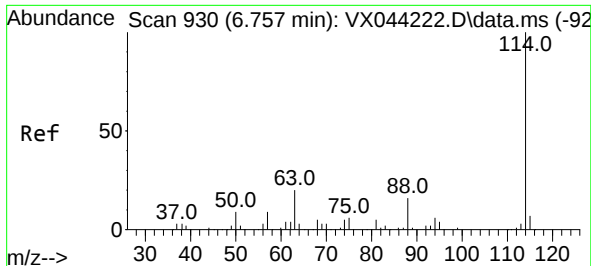
Tgt Ion: 56 Resp: 3577
Ion Ratio Lower Upper
56 100
69 130.7 24.7 37.1#
84 114.0 71.0 106.6#



#33
1,2-Dichloroethane-d4
Concen: 41.374 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 65 Resp: 104514
Ion Ratio Lower Upper
65 100
67 50.1 0.0 101.6

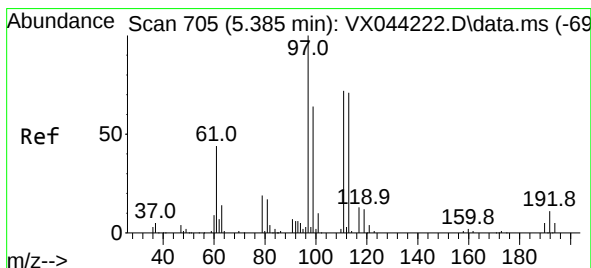
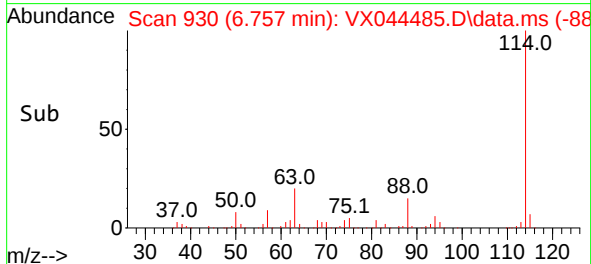
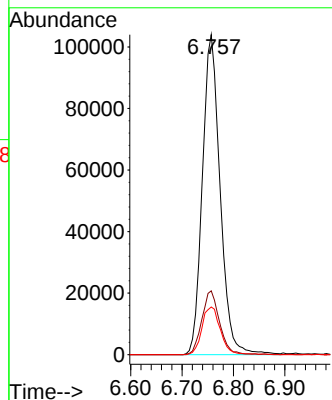
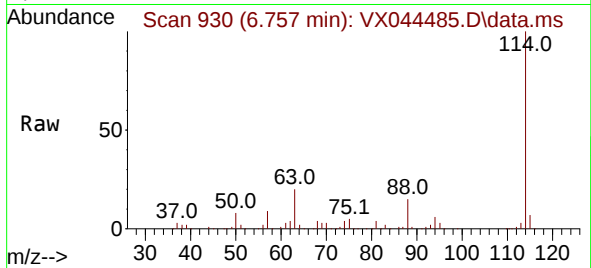




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

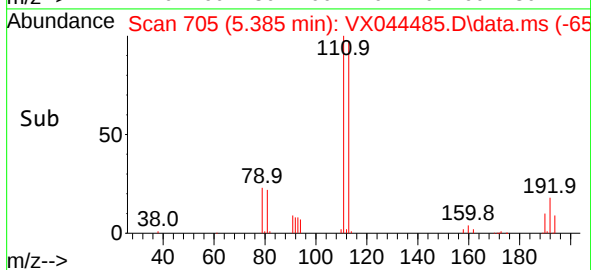
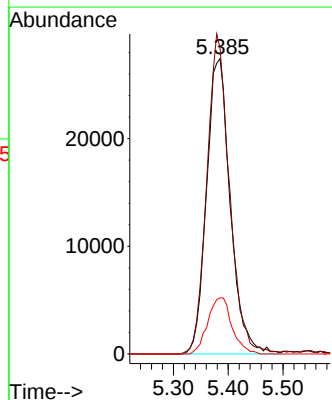
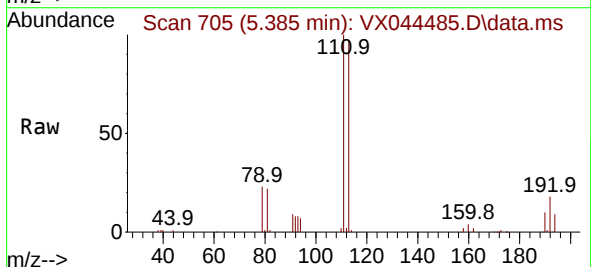
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

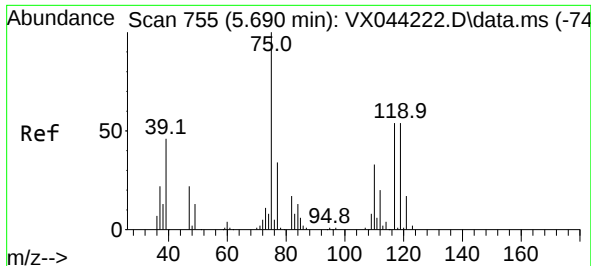
Tgt Ion:114 Resp: 249365
Ion Ratio Lower Upper
114 100
63 19.9 0.0 40.6
88 14.9 0.0 31.8



#35
Dibromofluoromethane
Concen: 47.788 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:113 Resp: 82534
Ion Ratio Lower Upper
113 100
111 103.3 80.4 120.6
192 19.4 13.3 19.9





#36

1,1-Dichloropropene

Concen: 5.331 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.147 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Instrument :

MSVOA_X

ClientSampleId :

RE132D6-20241217

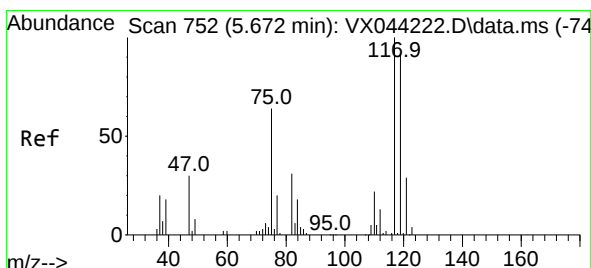
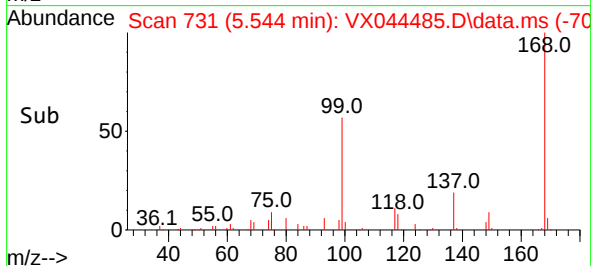
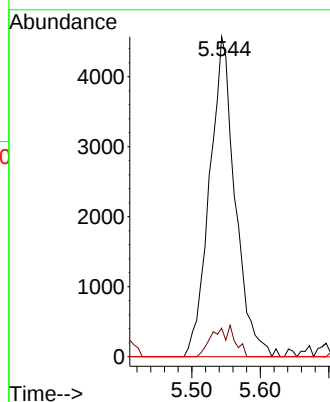
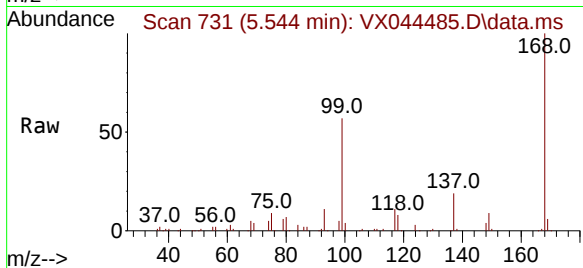
Tgt Ion: 75 Resp: 11902

Ion Ratio Lower Upper

75 100

110 8.4 17.3 51.7#

77 0.0 25.4 38.0#



#38

Carbon Tetrachloride

Concen: 6.213 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

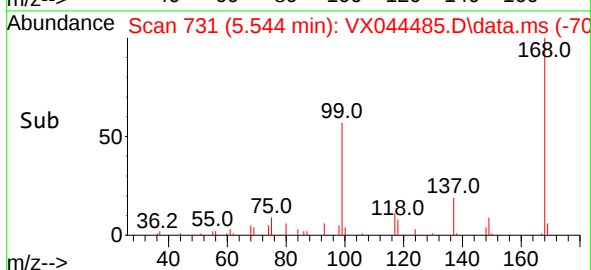
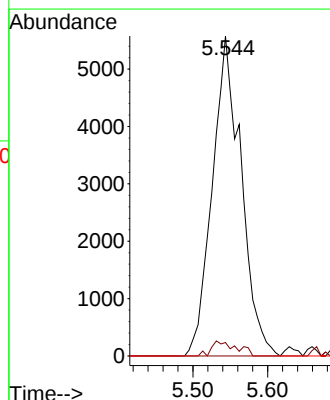
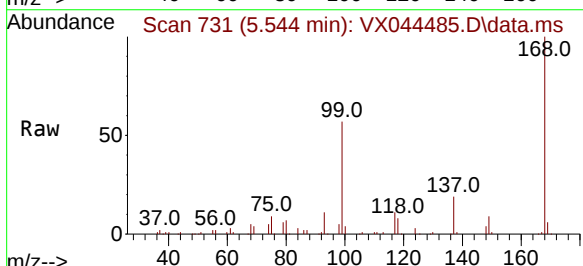
Tgt Ion: 117 Resp: 14934

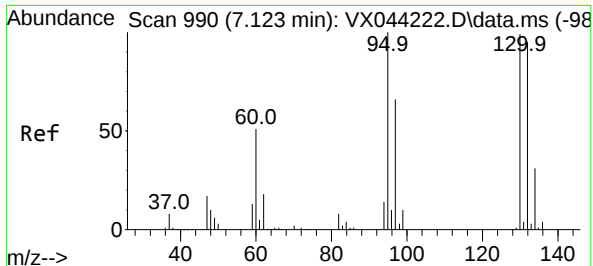
Ion Ratio Lower Upper

117 100

119 4.2 74.2 111.4#

121 0.0 23.0 34.6#

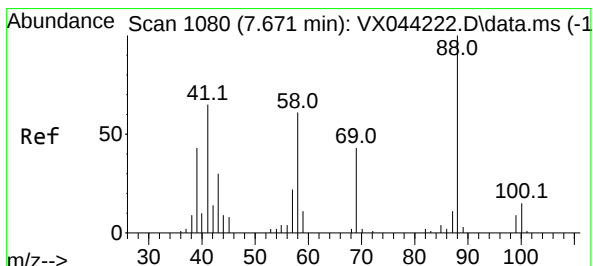
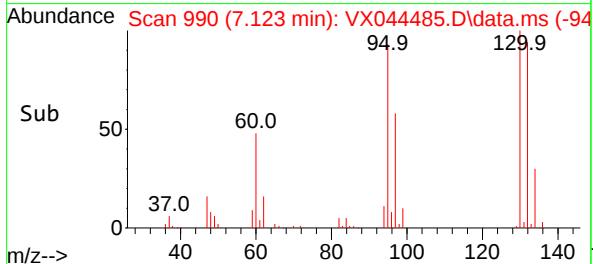
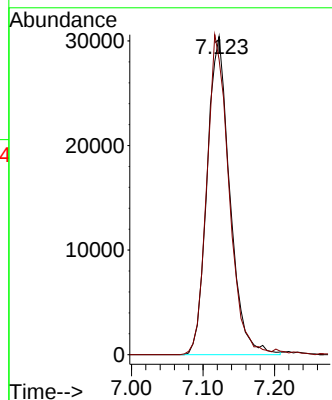
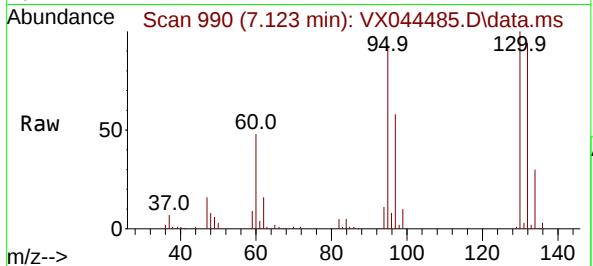




#44
Trichloroethene
Concen: 39.722 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

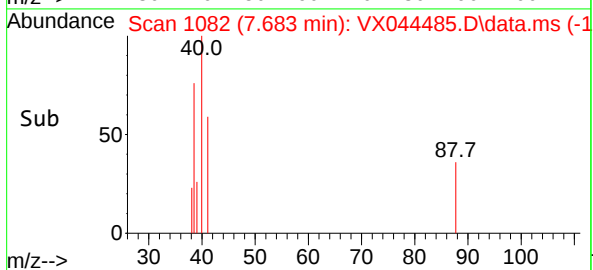
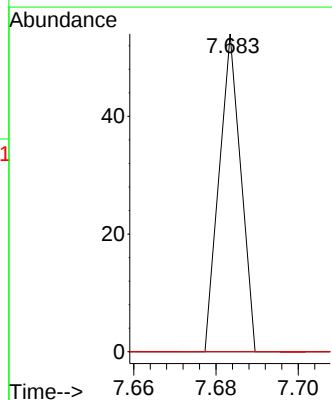
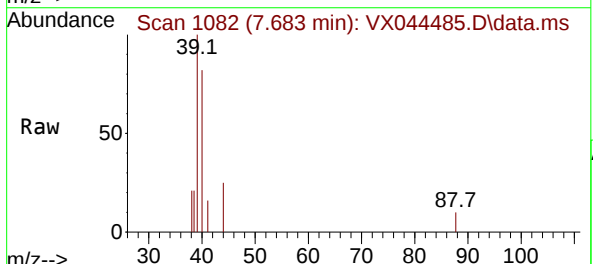
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

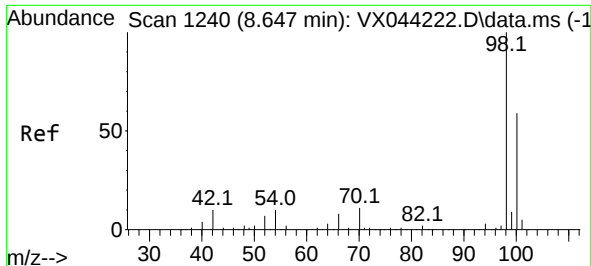
Tgt Ion:130 Resp: 67143
Ion Ratio Lower Upper
130 100
95 92.7 0.0 201.4



#49
1,4-Dioxane
Concen: 0.576 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 27.1 40.7#
58 0.0 41.0 61.4#

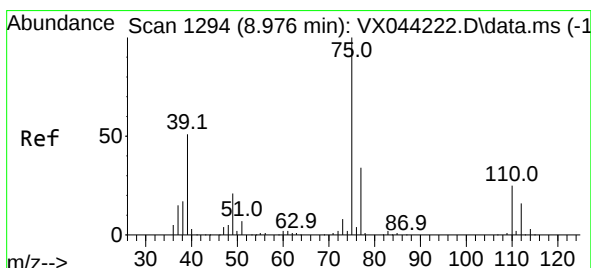
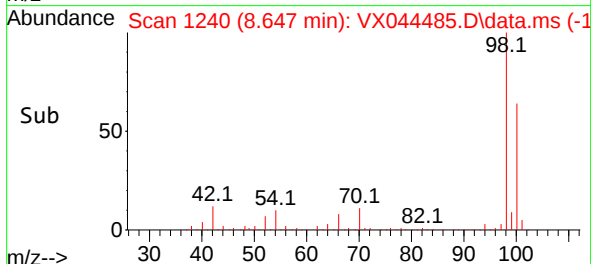
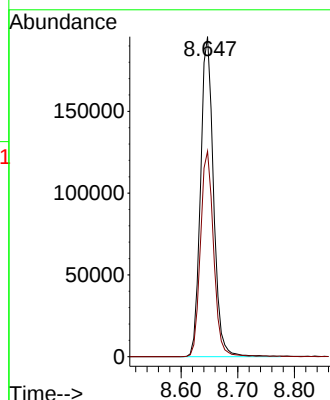
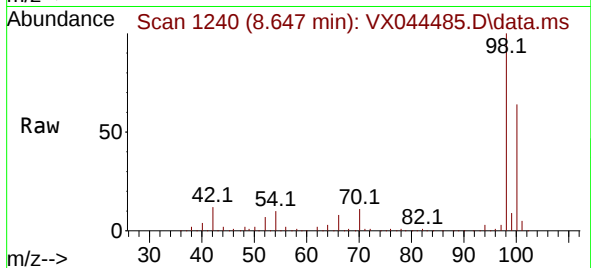




#50
Toluene-d8
Concen: 53.255 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

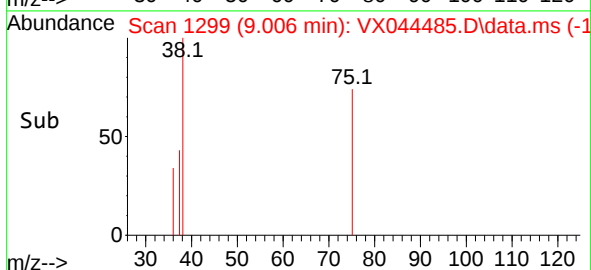
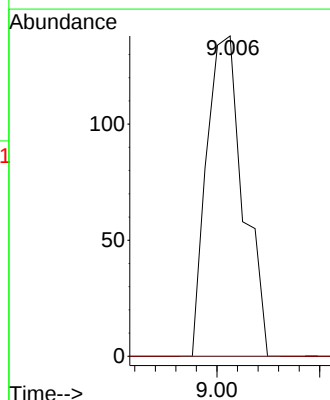
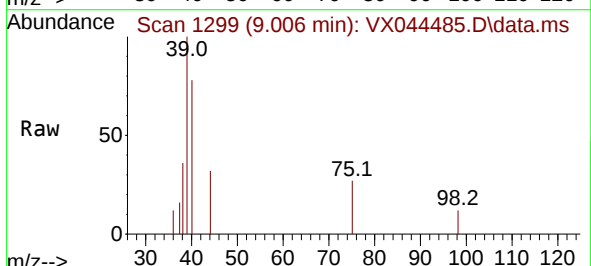
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

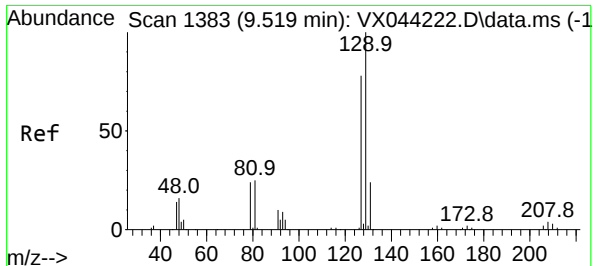
Tgt Ion: 98 Resp: 310298
Ion Ratio Lower Upper
98 100
100 65.1 51.5 77.3



#53
t-1,3-Dichloropropene
Concen: 1.066 ug/l
RT: 9.006 min Scan# 1299
Delta R.T. 0.030 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 75 Resp: 170
Ion Ratio Lower Upper
75 100
77 0.0 27.2 40.8#

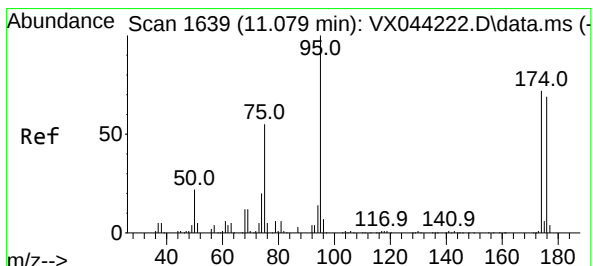
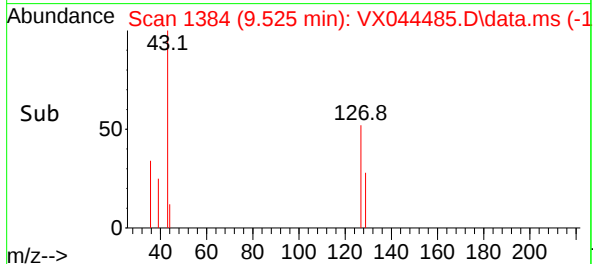
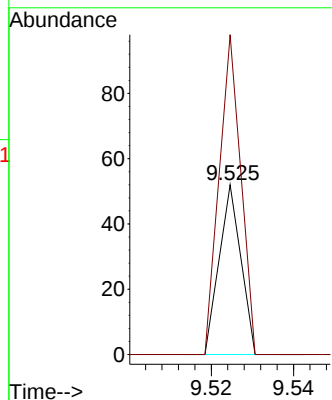
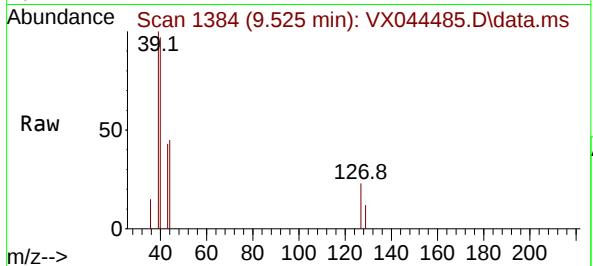




#60
Dibromochloromethane
Concen: 1.242 ug/l
RT: 9.525 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

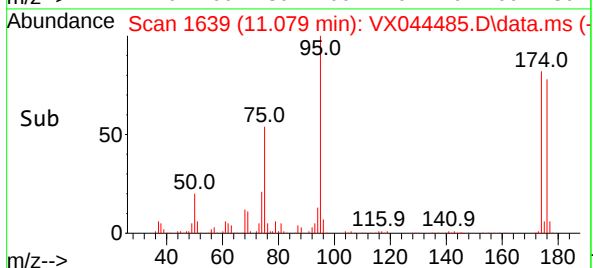
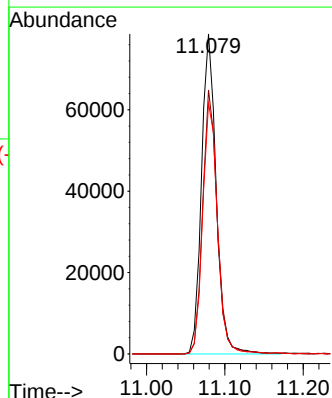
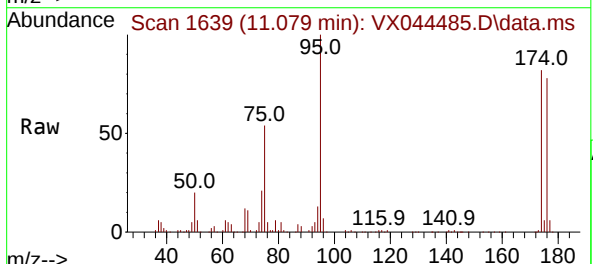
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

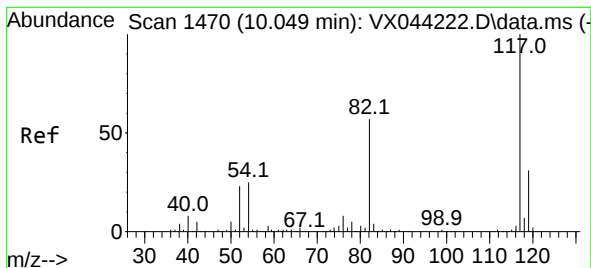
Tgt Ion:129 Resp: 19
Ion Ratio Lower Upper
129 100
127 189.5 38.5 115.3#



#62
4-Bromofluorobenzene
Concen: 50.220 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion: 95 Resp: 102247
Ion Ratio Lower Upper
95 100
174 82.3 0.0 145.8
176 79.5 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Instrument :

MSVOA_X

ClientSampleId :

RE132D6-20241217

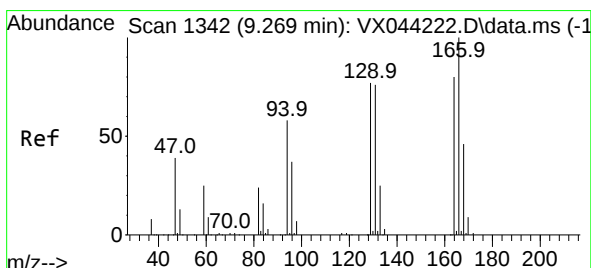
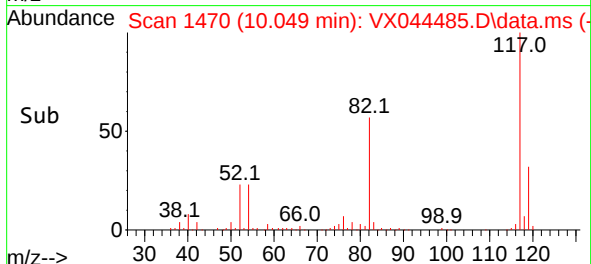
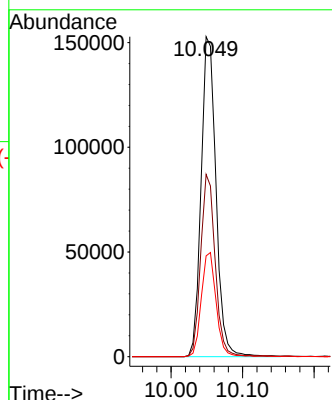
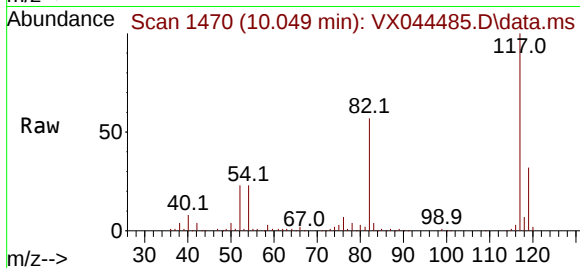
Tgt Ion:117 Resp: 221444

Ion Ratio Lower Upper

117 100

82 56.9 45.8 68.8

119 31.5 25.0 37.4



#64

Tetrachloroethene

Concen: 0.291 ug/l

RT: 9.268 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Tgt Ion:164 Resp: 428

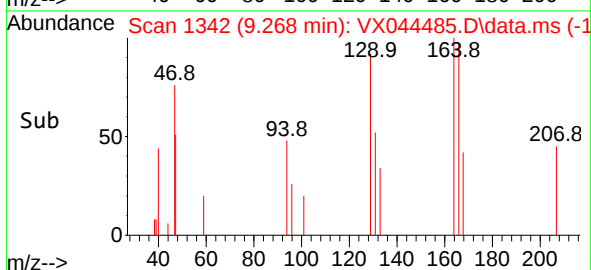
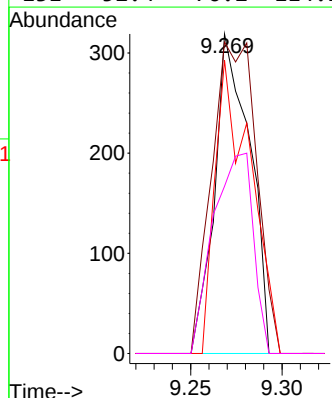
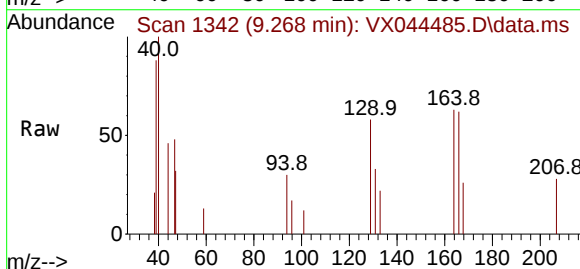
Ion Ratio Lower Upper

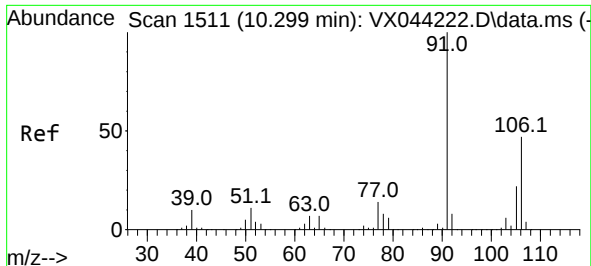
164 100

166 97.5 100.4 150.6#

129 91.8 77.2 115.8

131 52.4 76.2 114.2#

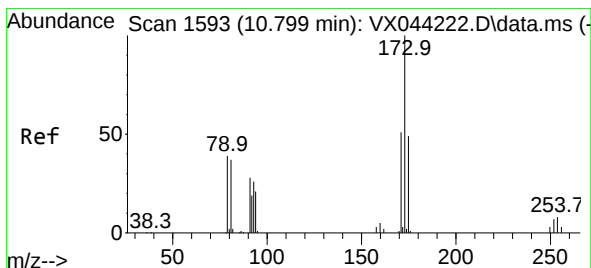
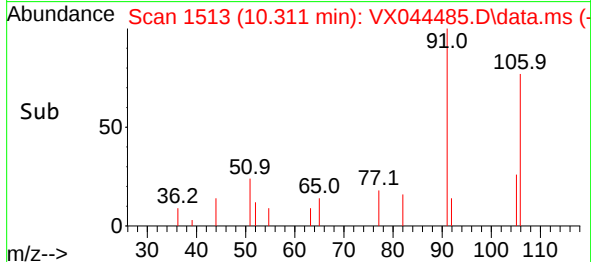
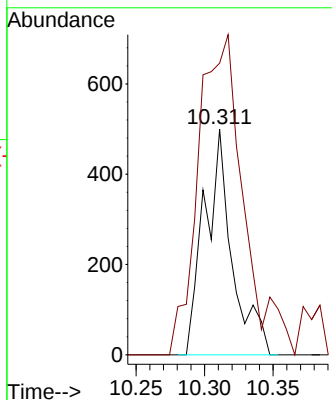
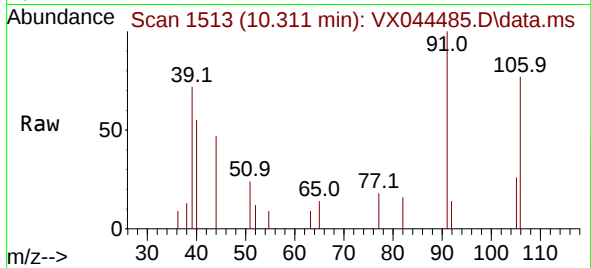




#68
m/p-Xylenes
Concen: 0.233 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

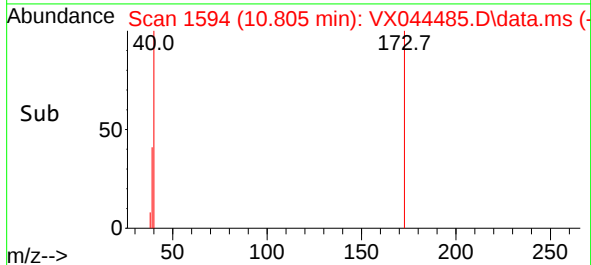
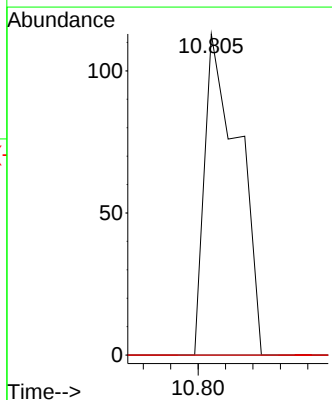
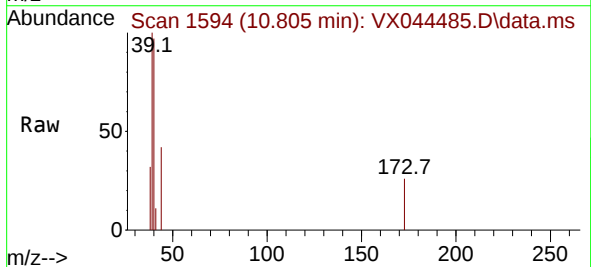
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

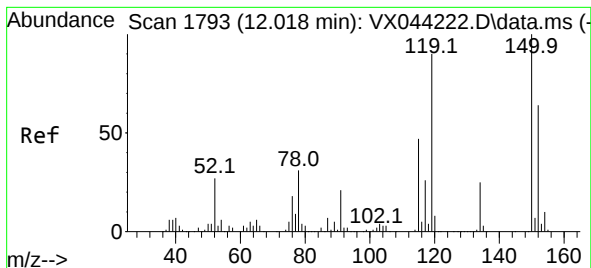
Tgt Ion:106 Resp: 702
Ion Ratio Lower Upper
106 100
91 230.8 170.2 255.2



#71
Bromoform
Concen: 1.329 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:173 Resp: 97
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Instrument :

MSVOA_X

ClientSampleId :

RE132D6-20241217

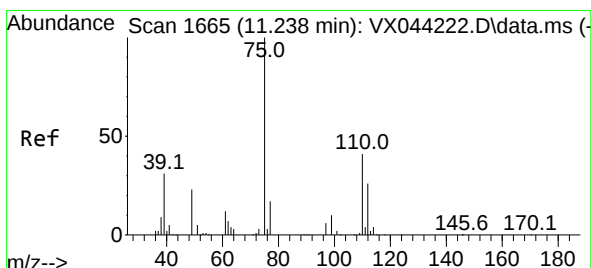
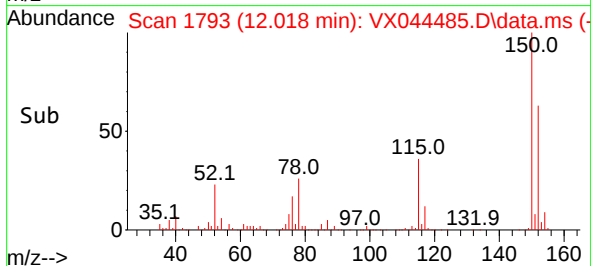
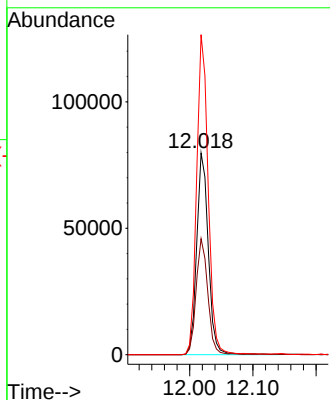
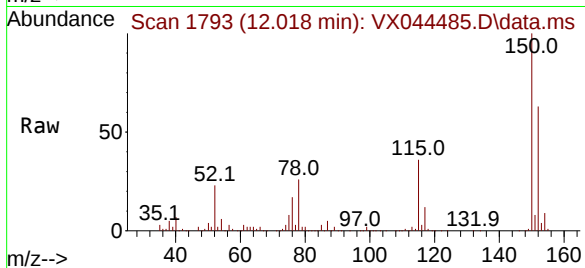
Tgt Ion:152 Resp: 102248

Ion Ratio Lower Upper

152 100

115 57.8 44.5 133.3

150 156.2 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 24.630 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX044485.D

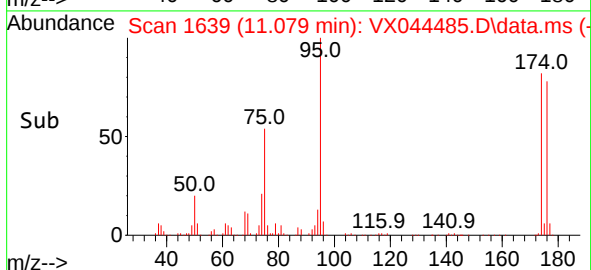
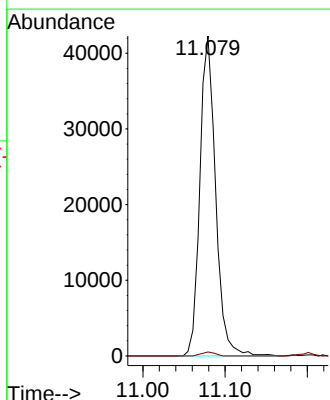
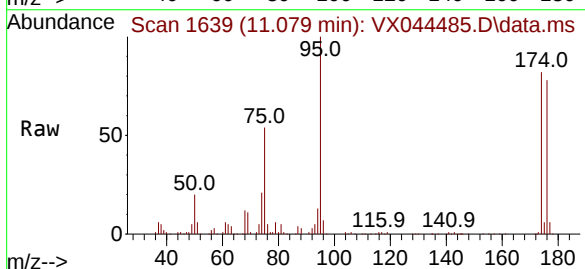
Acq: 23 Dec 2024 17:09

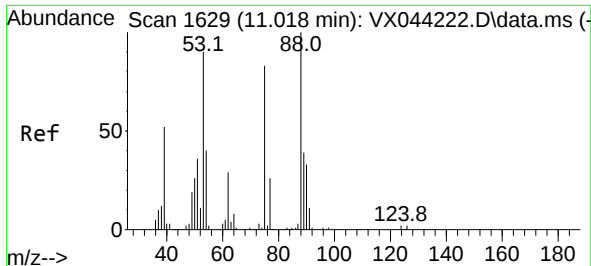
Tgt Ion: 75 Resp: 56229

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#

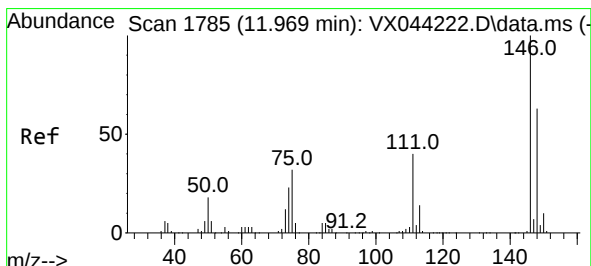
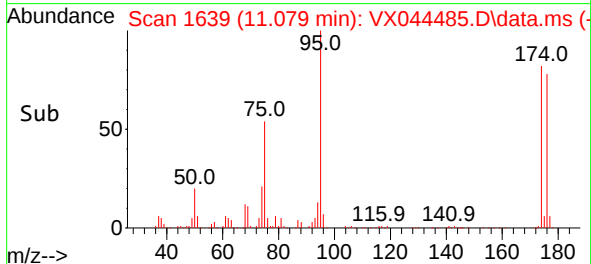
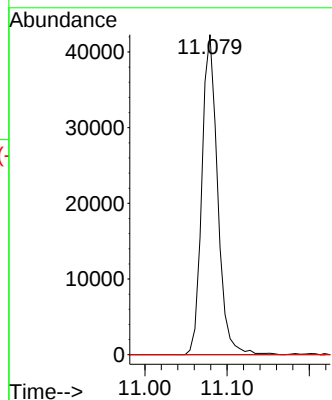
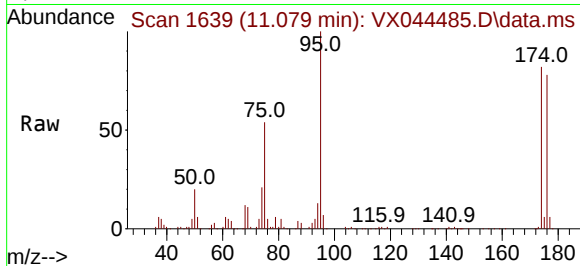




#81
trans-1,4-Dichloro-2-butene
Concen: 68.281 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

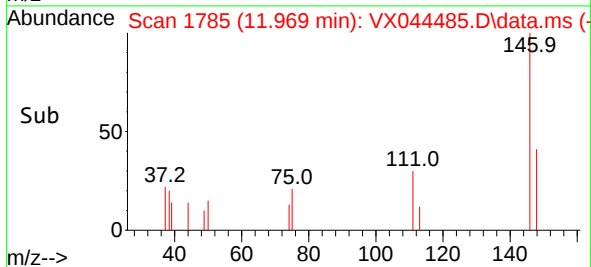
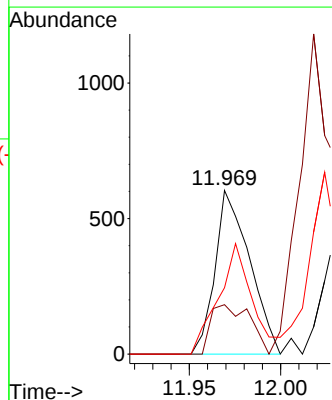
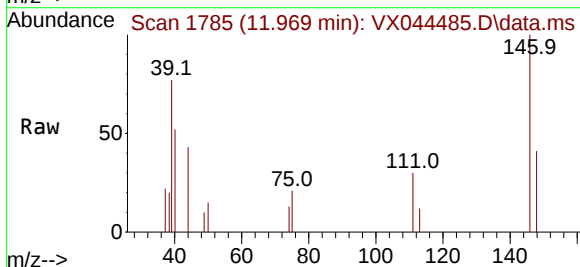
Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

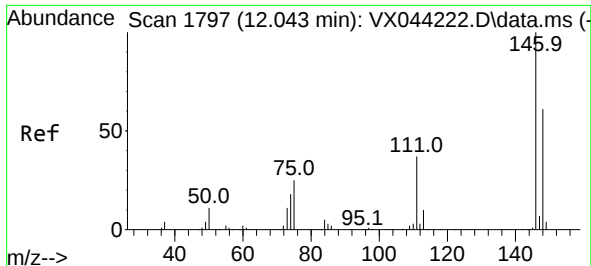
Tgt Ion: 75 Resp: 56229
Ion Ratio Lower Upper
75 100
53 0.0 93.6 140.4#
89 0.0 37.3 55.9#



#87
1,3-Dichlorobenzene
Concen: 0.240 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:146 Resp: 795
Ion Ratio Lower Upper
146 100
111 34.1 21.4 64.2
148 66.8 31.7 95.1





#88

1,4-Dichlorobenzene

Concen: 0.233 ug/l

RT: 11.969 min Scan# 1

Delta R.T. -0.073 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

Instrument :

MSVOA_X

ClientSampleId :

RE132D6-20241217

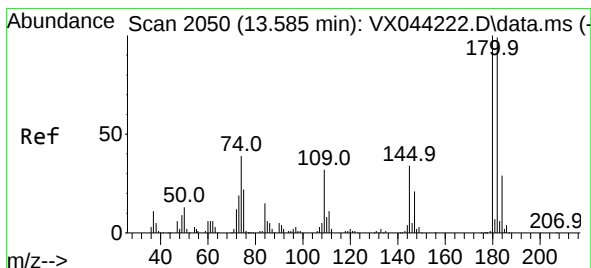
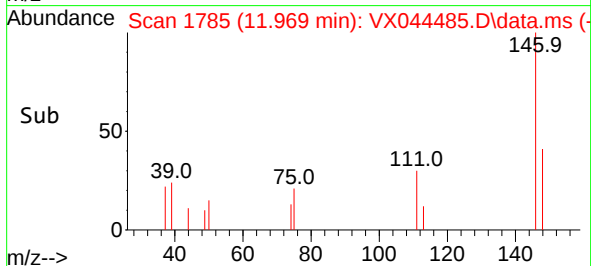
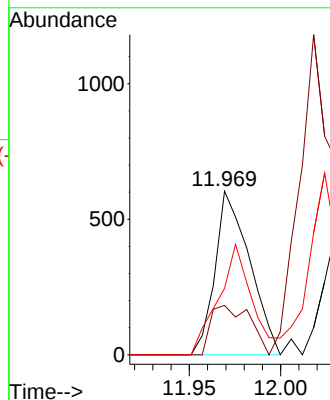
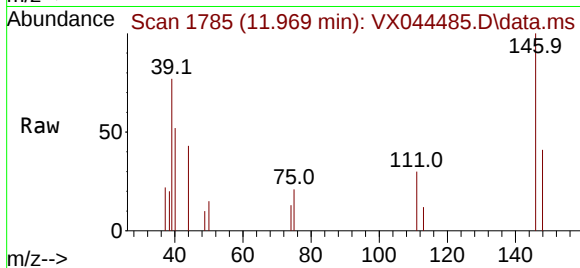
Tgt Ion:146 Resp: 795

Ion Ratio Lower Upper

146 100

111 34.1 21.0 63.0

148 66.8 32.3 96.8



#93

1,2,4-Trichlorobenzene

Concen: 0.297 ug/l

RT: 13.597 min Scan# 2052

Delta R.T. 0.012 min

Lab File: VX044485.D

Acq: 23 Dec 2024 17:09

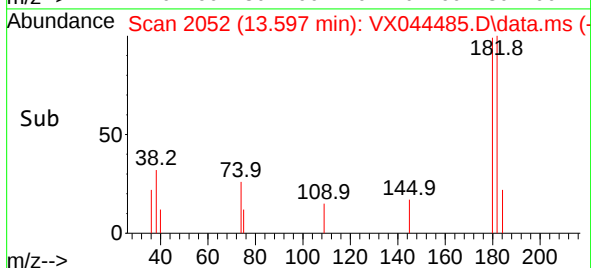
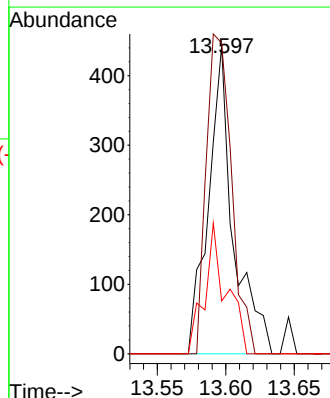
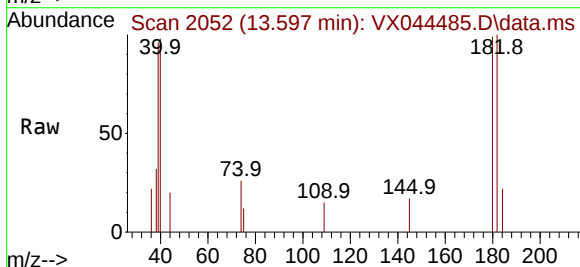
Tgt Ion:180 Resp: 560

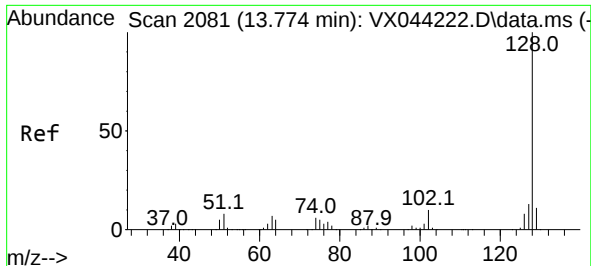
Ion Ratio Lower Upper

180 100

182 104.6 48.0 144.2

145 37.0 16.6 49.7

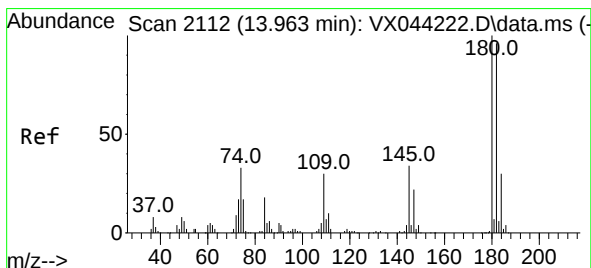
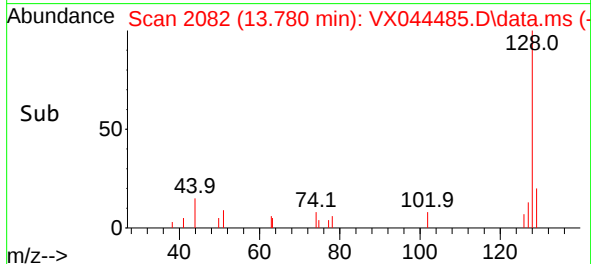
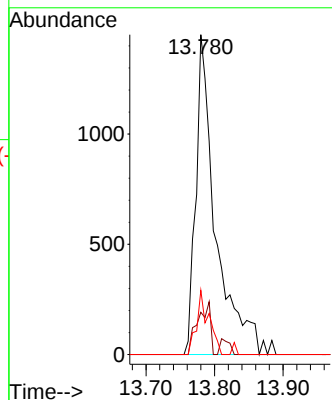
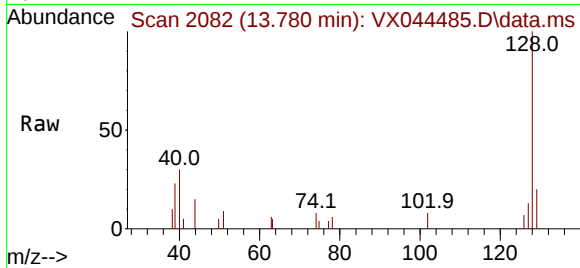




#95
Naphthalene
Concen: 0.400 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Instrument :
MSVOA_X
ClientSampleId :
RE132D6-20241217

Tgt Ion:128 Resp: 2946
Ion Ratio Lower Upper
128 100
127 10.6 10.5 15.7
129 12.4 9.0 13.4



#96
1,2,3-Trichlorobenzene
Concen: 0.360 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VX044485.D
Acq: 23 Dec 2024 17:09

Tgt Ion:180 Resp: 720
Ion Ratio Lower Upper
180 100
182 99.2 48.0 144.0
145 38.8 17.7 53.1

