

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111023\
 Data File : VX038763.D
 Acq On : 11 Nov 2023 06:41
 Operator : JC/MD
 Sample : 05357-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE114D1-20231108

Quant Time: Nov 13 01:07:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110723W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 08 03:19:07 2023
 Response via : Initial Calibration

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

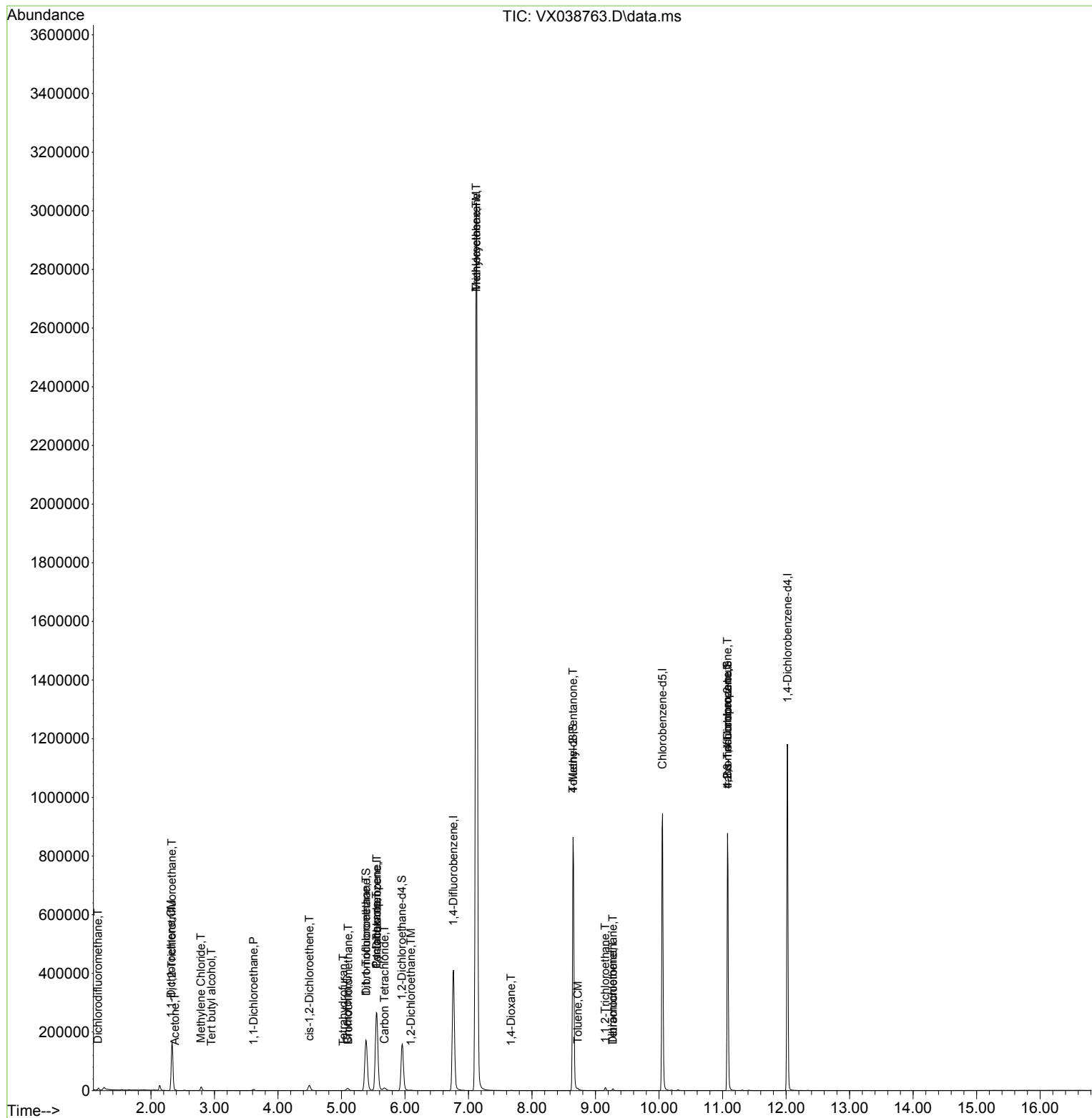
Internal Standards						
1) Pentafluorobenzene	5.556	168	280929	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	462318	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	485129	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	279318	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	161648	46.219	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	92.440%		
35) Dibromofluoromethane	5.385	113	151816	45.594	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.180%		
50) Toluene-d8	8.647	98	554229	46.515	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	93.020%		
62) 4-Bromofluorobenzene	11.079	95	236378	51.168	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.340%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	3217	1.103	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	59416	21.713	ug/l	89
11) Tert butyl alcohol	2.953	59	164	0.229	ug/l #	78
12) 1,1-Dichloroethene	2.319	96	8823	3.365	ug/l #	81
16) Acetone	2.380	43	1554	1.055	ug/l	92
20) Methylene Chloride	2.788	84	6321	2.129	ug/l #	73
24) 1,1-Dichloroethane	3.617	63	4609	0.984	ug/l	96
27) cis-1,2-Dichloroethene	4.495	96	12331	3.741	ug/l	76
28) Bromochloromethane	5.105	49	540	0.257	ug/l #	16
29) Tetrahydrofuran	5.025	42	270	0.203	ug/l #	34
30) Chloroform	5.093	83	9423	1.715	ug/l	95
31) Cyclohexane	5.550	56	4230	1.093	ug/l #	1
32) 1,1,1-Trichloroethane	5.385	97	1487	0.308	ug/l #	48
36) 1,1-Dichloropropene	5.556	75	18081	4.371	ug/l #	52
38) Carbon Tetrachloride	5.678	117	7446	1.610	ug/l	94
39) Methylcyclohexane	7.123	83	12461	2.410	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	1732	0.403	ug/l #	77
44) Trichloroethene	7.123	130	1265389	341.374	ug/l	92
49) 1,4-Dioxane	7.671	88	1037	14.559	ug/l #	85
51) 4-Methyl-2-Pentanone	8.647	43	1835	0.434	ug/l #	1
52) Toluene	8.720	92	1581	0.203	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	3352	1.012	ug/l	94
60) Dibromochloromethane	9.275	129	1121	0.302	ug/l #	11
64) Tetrachloroethene	9.275	164	1284	0.354	ug/l	91
76) 1,2,3-Trichloropropane	11.079	75	113868	20.584	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	113868	62.710	ug/l #	5

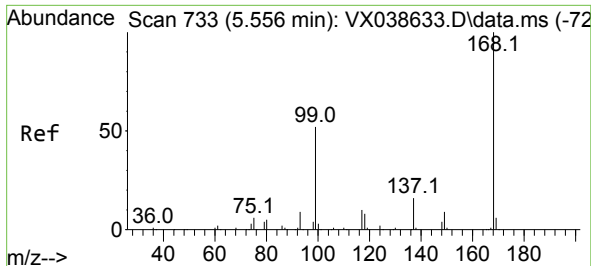
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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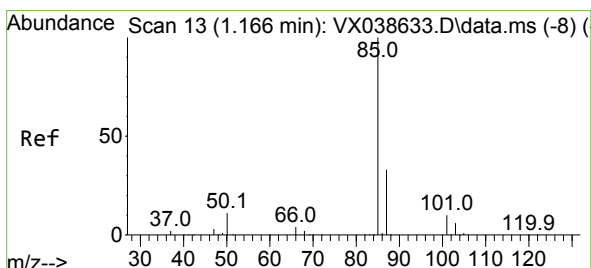
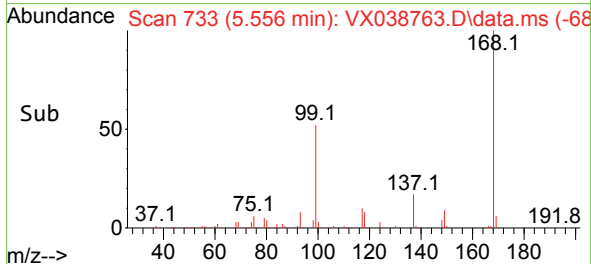
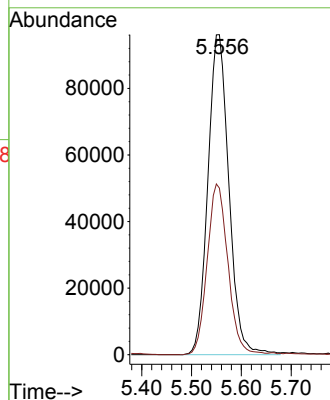
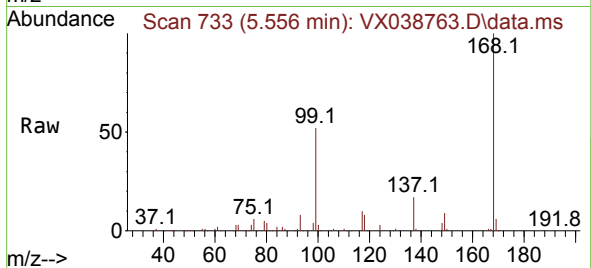




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

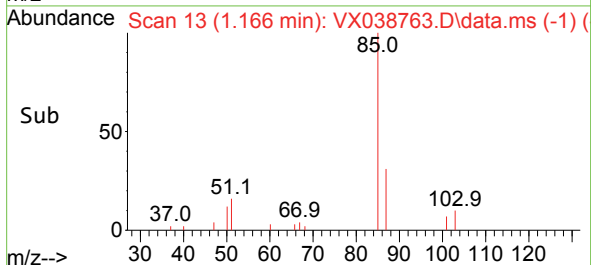
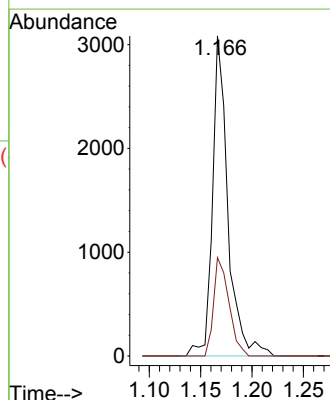
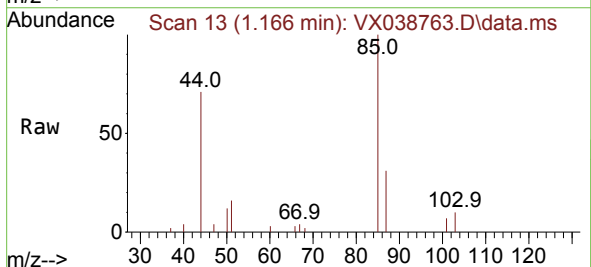
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

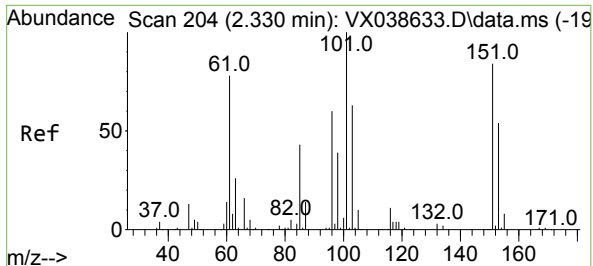
Tgt Ion:168 Resp: 280929
Ion Ratio Lower Upper
168 100
99 52.1 56.6 85.0#



#2
Dichlorodifluoromethane
Concen: 1.103 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 85 Resp: 3217
Ion Ratio Lower Upper
85 100
87 30.8 16.7 50.1

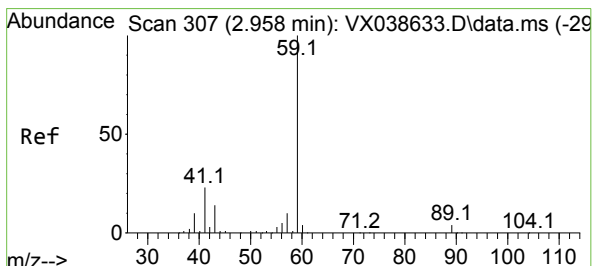
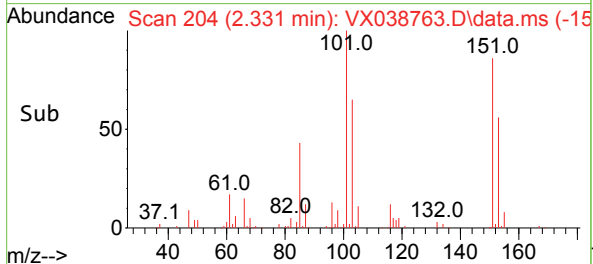
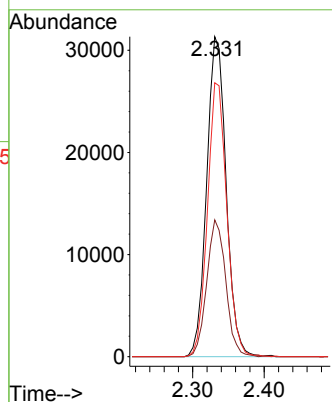
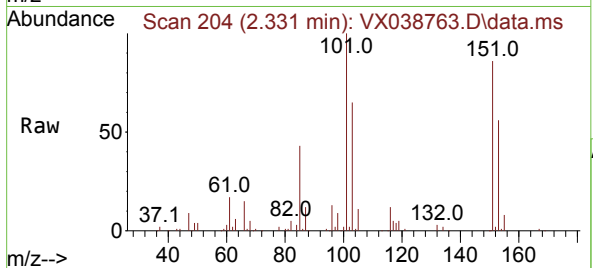




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.713 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

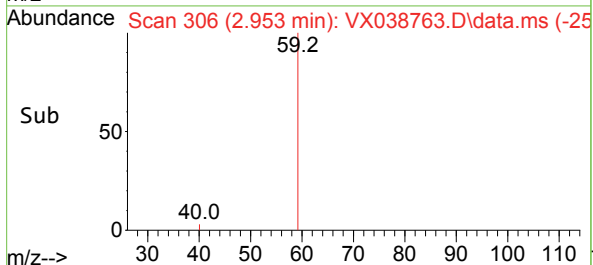
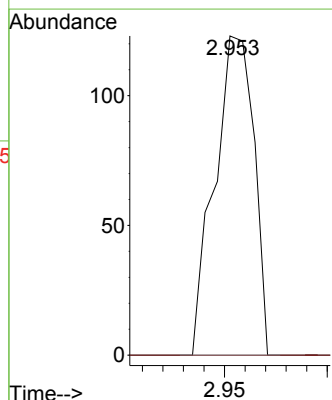
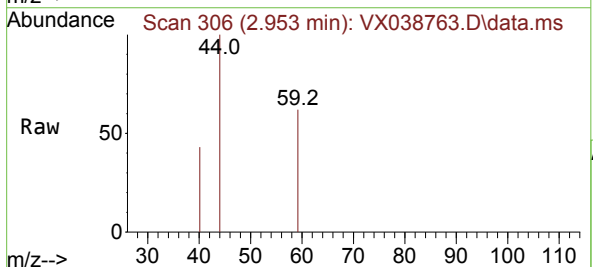
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

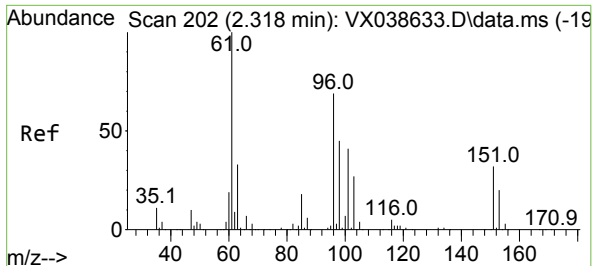
Tgt Ion:101 Resp: 59416
Ion Ratio Lower Upper
101 100
85 41.7 37.0 55.6
151 84.9 58.6 87.8



#11
Tert butyl alcohol
Concen: 0.229 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.006 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 59 Resp: 164
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#12

1,1-Dichloroethene

Concen: 3.365 ug/l

RT: 2.319 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX038763.D

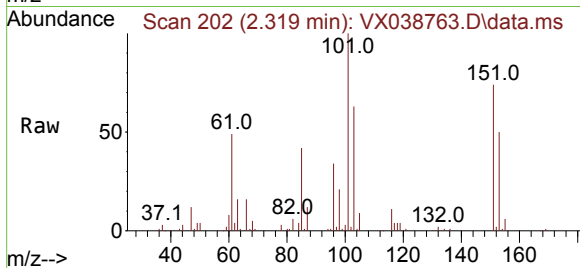
Acq: 11 Nov 2023 06:41

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20231108



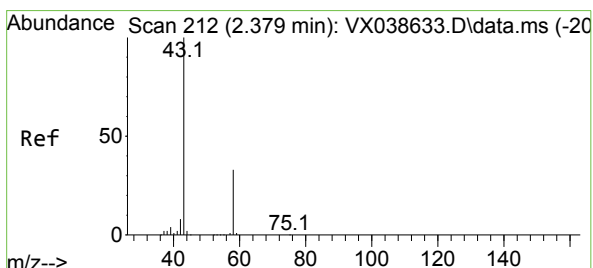
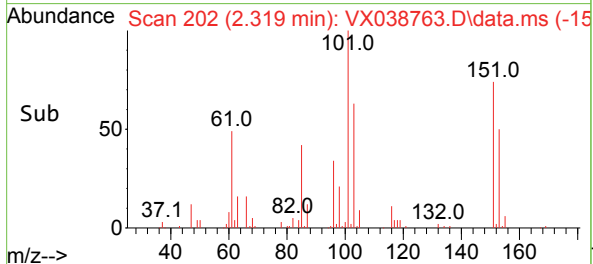
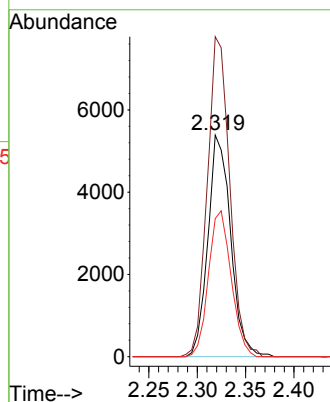
Tgt Ion: 96 Resp: 8823

Ion Ratio Lower Upper

96 100

61 144.4 144.6 216.8#

98 62.3 50.4 75.6



#16

Acetone

Concen: 1.055 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX038763.D

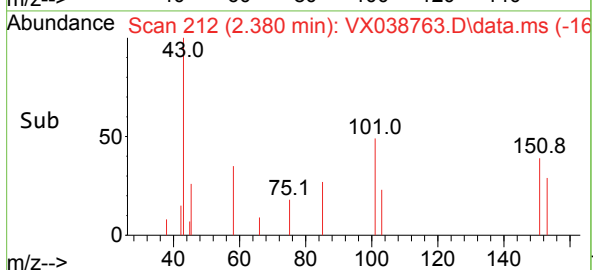
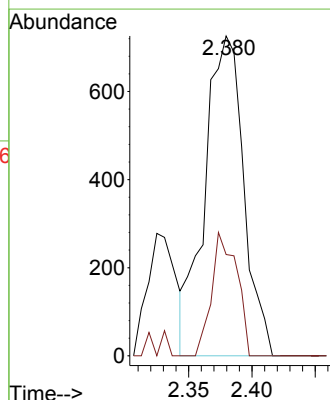
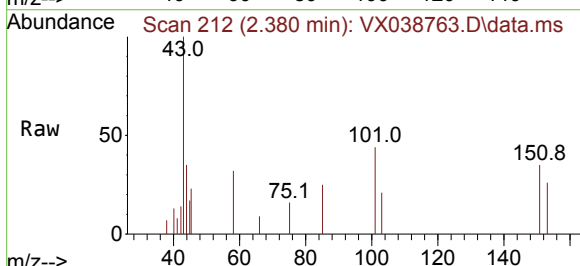
Acq: 11 Nov 2023 06:41

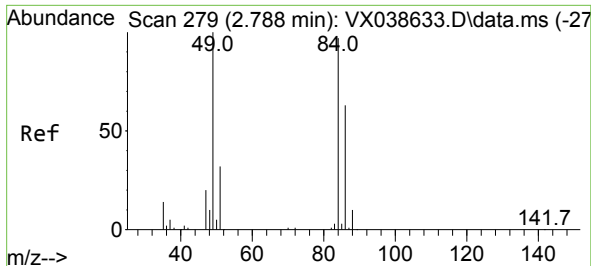
Tgt Ion: 43 Resp: 1554

Ion Ratio Lower Upper

43 100

58 31.7 21.9 32.9

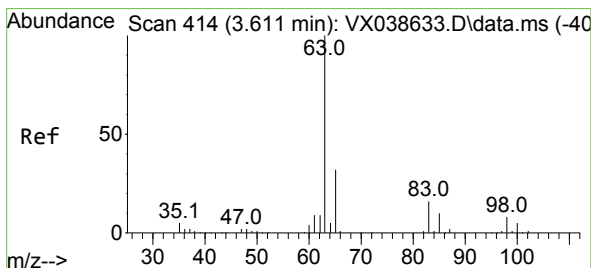
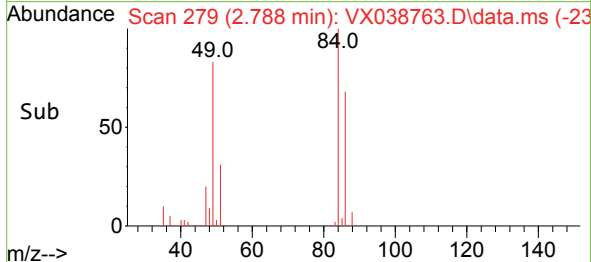
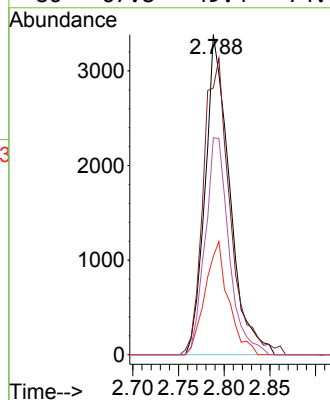
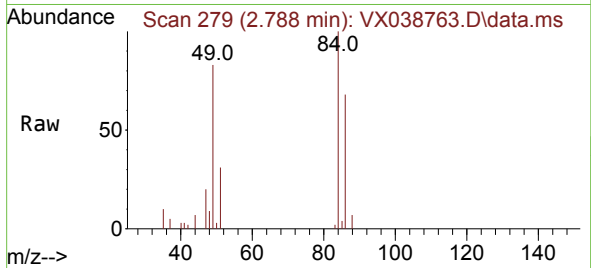




#20
Methylene Chloride
Concen: 2.129 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

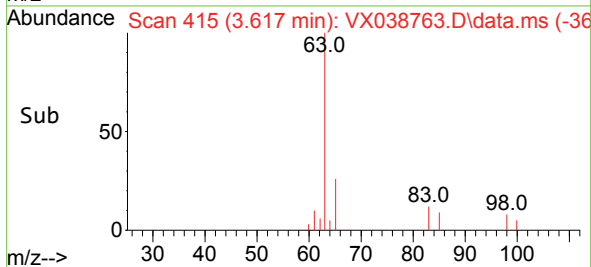
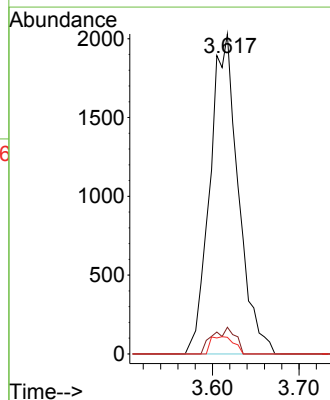
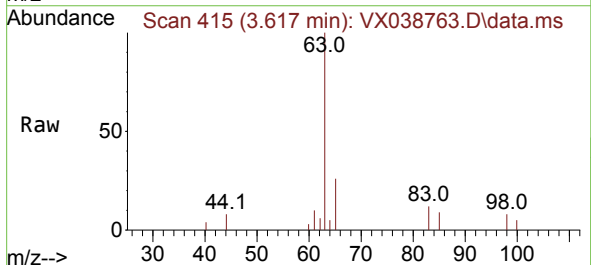
Instrument :
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ClientSampleId :
RE114D1-20231108

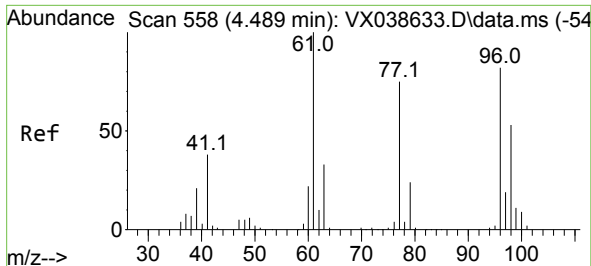
Tgt Ion:	84	Resp:	6321
Ion	Ratio	Lower	Upper
84	100		
49	83.4	103.6	155.4#
51	30.8	33.8	50.6#
86	67.8	49.4	74.0



#24
1,1-Dichloroethane
Concen: 0.984 ug/l
RT: 3.617 min Scan# 415
Delta R.T. 0.006 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion:	63	Resp:	4609
Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.3	9.8
100	5.2	2.1	6.5





#27

cis-1,2-Dichloroethene

Concen: 3.741 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20231108

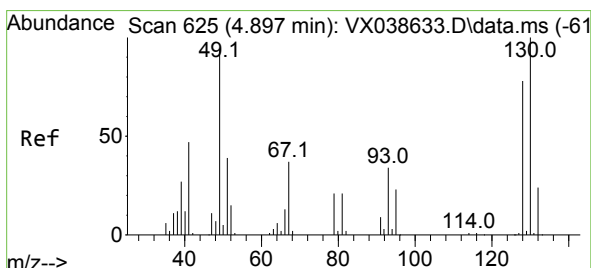
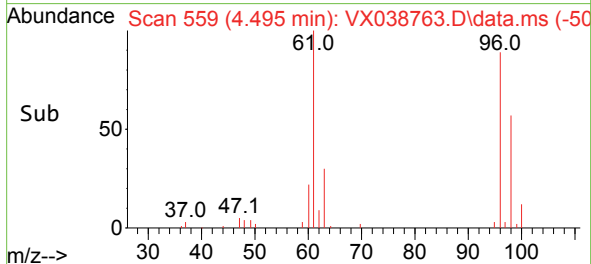
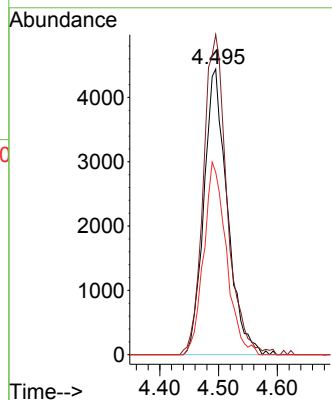
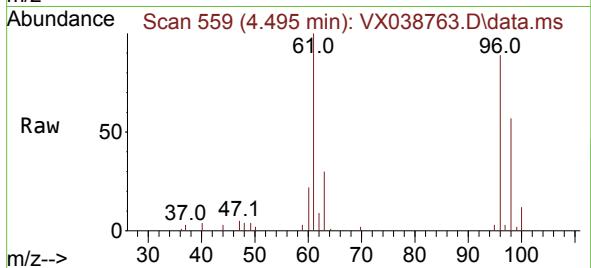
Tgt Ion: 96 Resp: 12331

Ion Ratio Lower Upper

96 100

61 113.1 0.0 312.2

98 65.0 0.0 129.0



#28

Bromochloromethane

Concen: 0.257 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.208 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

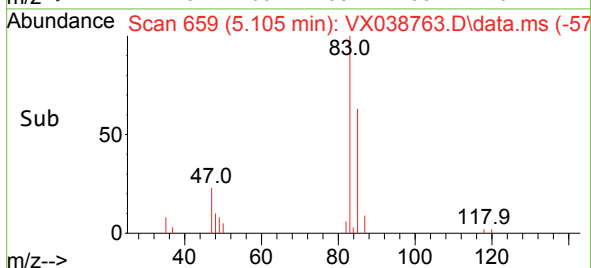
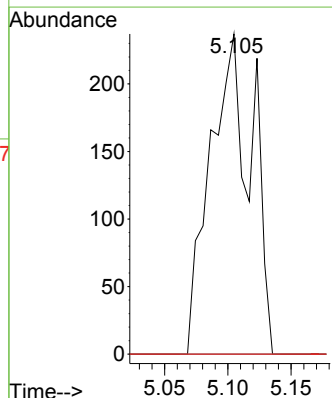
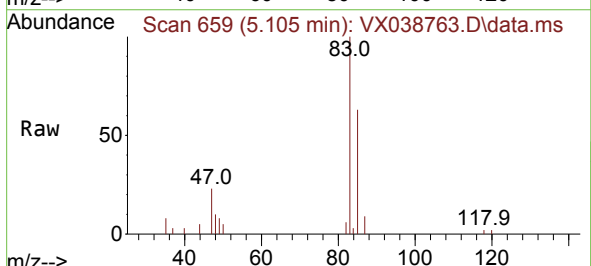
Tgt Ion: 49 Resp: 540

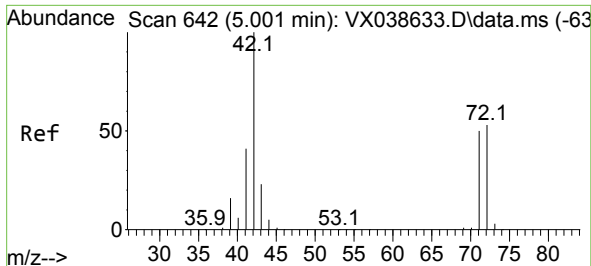
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 57.5 86.3#





#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.025 min

Lab File: VX038763.D

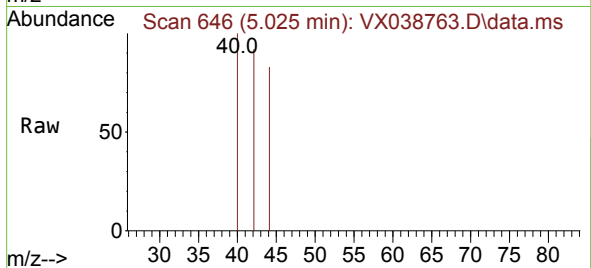
Acq: 11 Nov 2023 06:41

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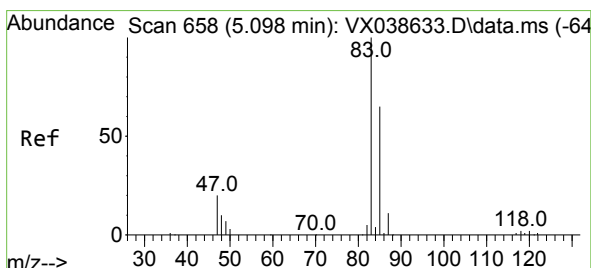
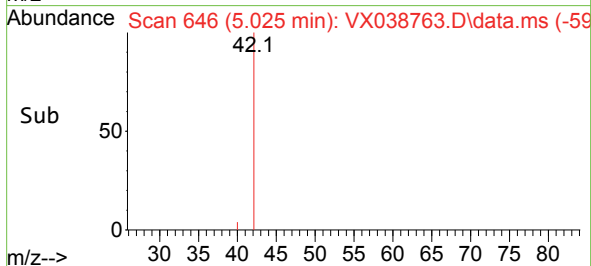
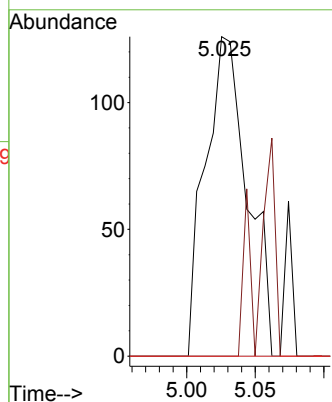
Tgt Ion: 42 Resp: 270

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 0.0 32.2 48.2#



#30

Chloroform

Concen: 1.715 ug/l

RT: 5.093 min Scan# 657

Delta R.T. -0.006 min

Lab File: VX038763.D

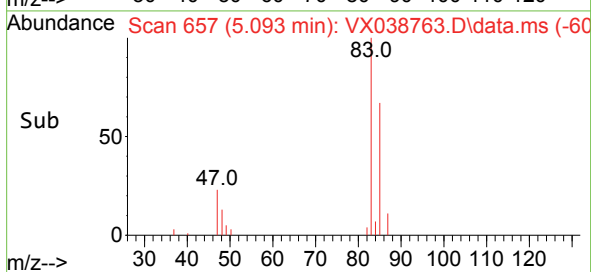
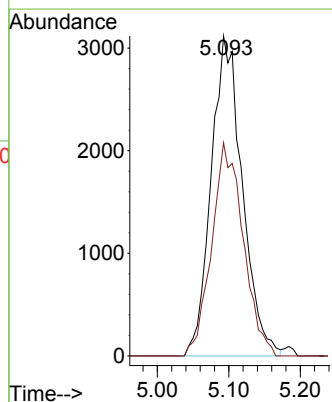
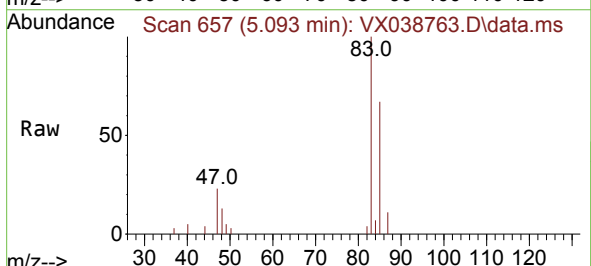
Acq: 11 Nov 2023 06:41

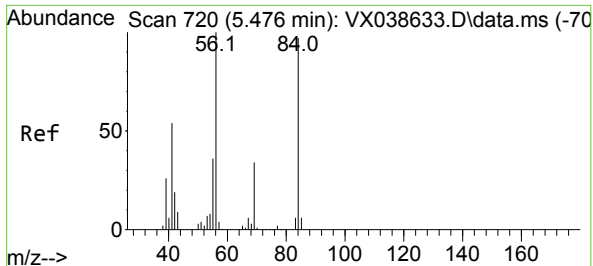
Tgt Ion: 83 Resp: 9423

Ion Ratio Lower Upper

83 100

85 66.6 50.3 75.5

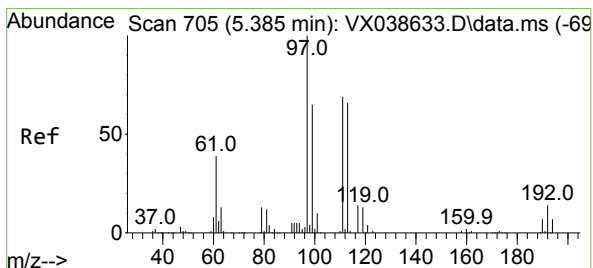
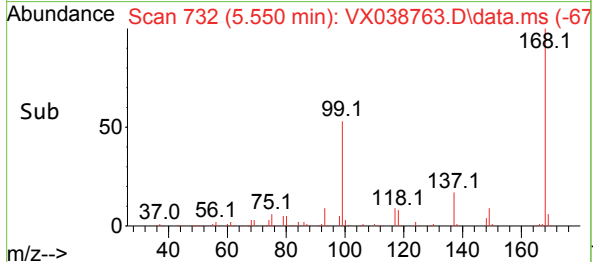
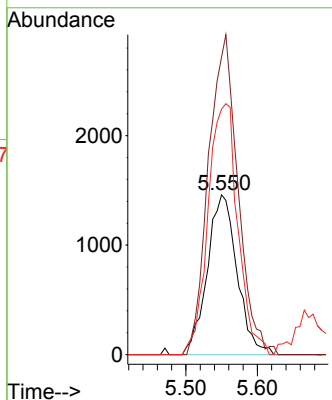
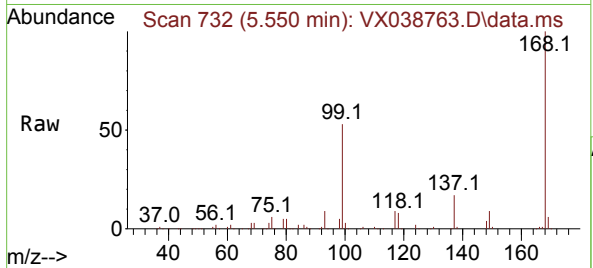




#31
Cyclohexane
Concen: 1.093 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.074 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

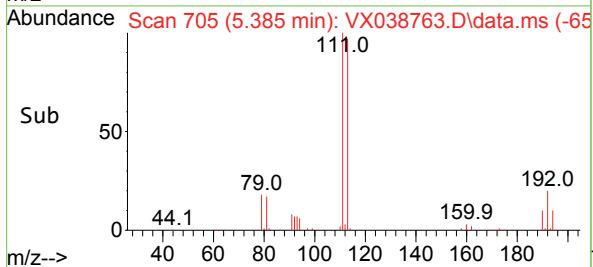
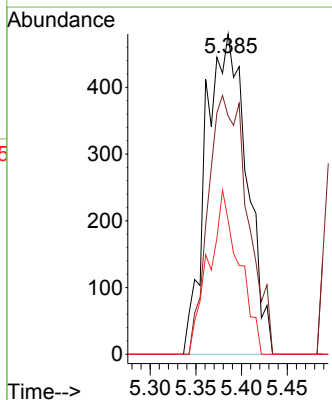
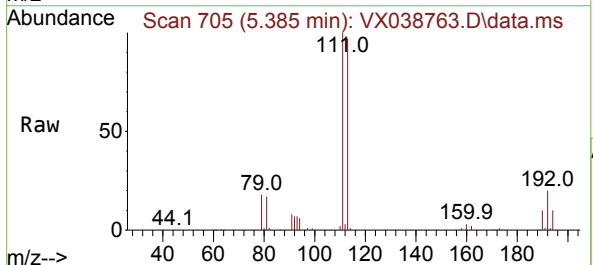
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

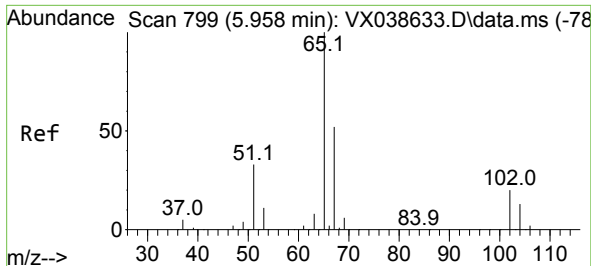
Tgt Ion: 56 Resp: 4230
Ion Ratio Lower Upper
56 100
69 186.2 23.4 35.2#
84 153.7 65.9 98.9#



#32
1,1,1-Trichloroethane
Concen: 0.308 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 97 Resp: 1487
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 38.2 36.4 54.6

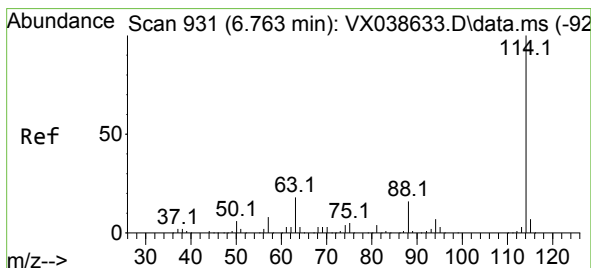
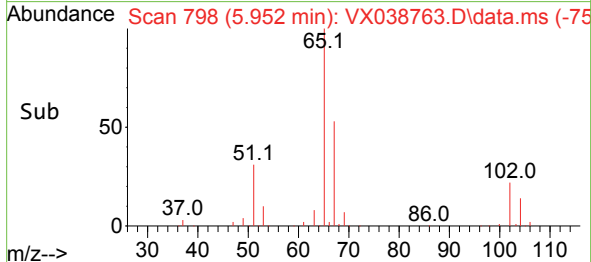
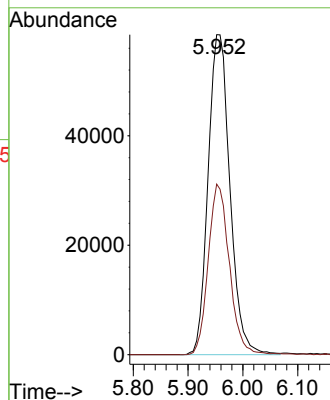
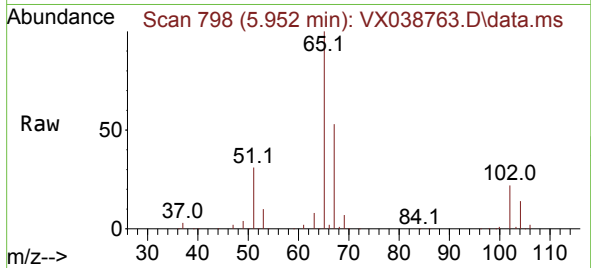




#33
1,2-Dichloroethane-d4
Concen: 46.219 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

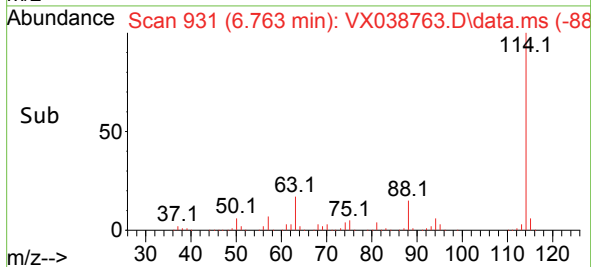
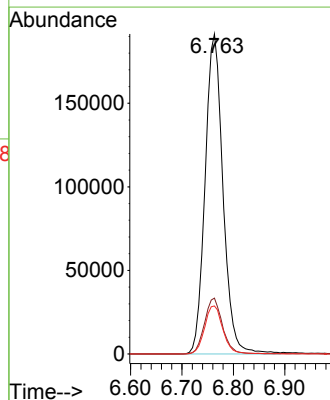
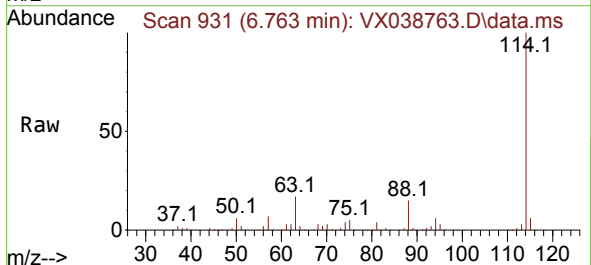
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

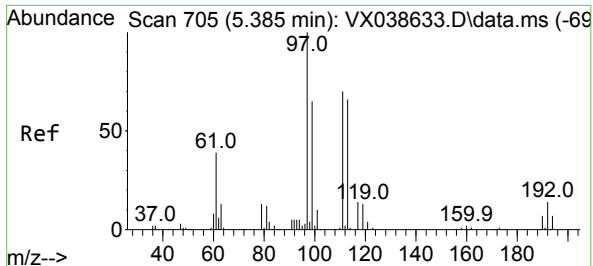
Tgt Ion: 65 Resp: 161648
Ion Ratio Lower Upper
65 100
67 51.7 0.0 100.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 114 Resp: 462318
Ion Ratio Lower Upper
114 100
63 17.5 0.0 45.0
88 15.0 0.0 36.6

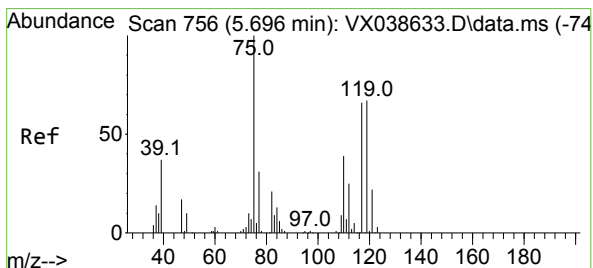
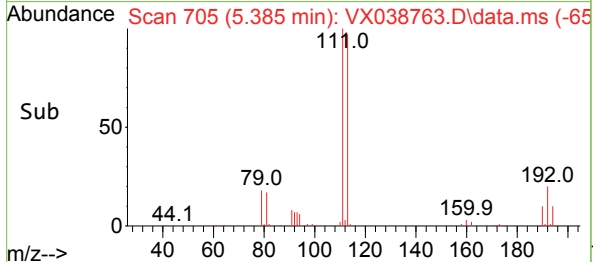
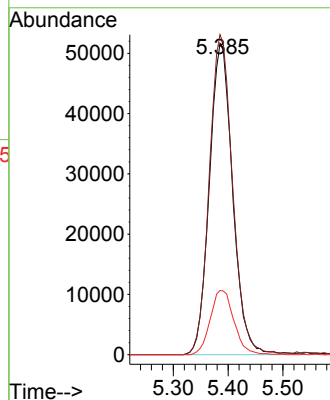
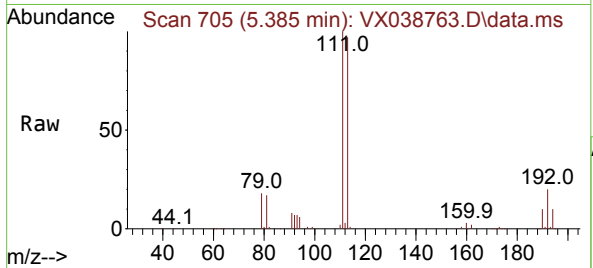




#35
Dibromofluoromethane
Concen: 45.594 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

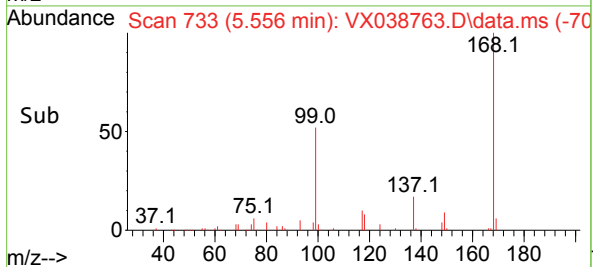
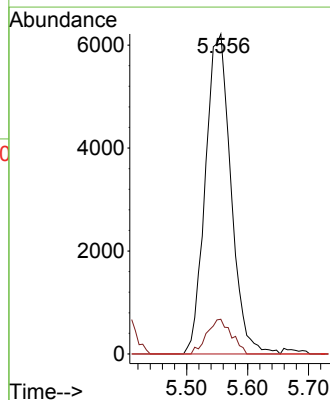
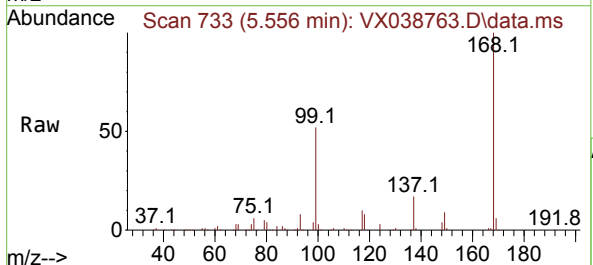
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

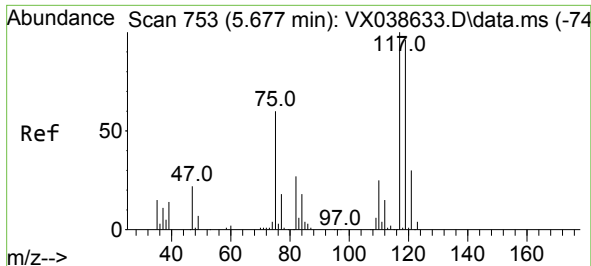
Tgt Ion:113 Resp: 151816
Ion Ratio Lower Upper
113 100
111 103.4 82.9 124.3
192 21.0 13.3 19.9#



#36
1,1-Dichloropropene
Concen: 4.371 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 75 Resp: 18081
Ion Ratio Lower Upper
75 100
110 10.4 17.0 50.9#
77 0.0 24.7 37.1#

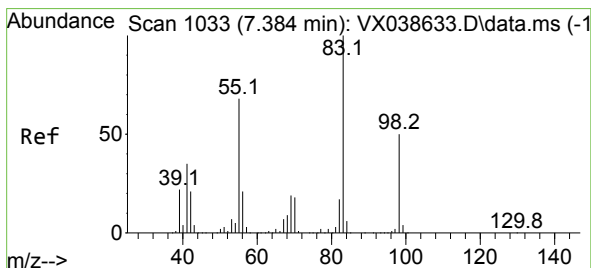
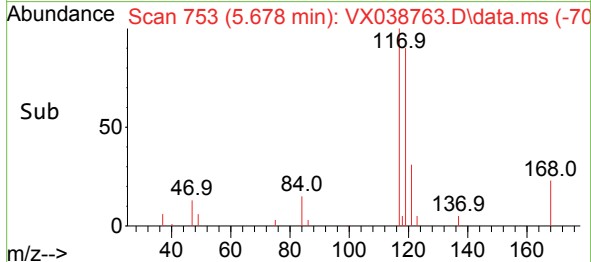
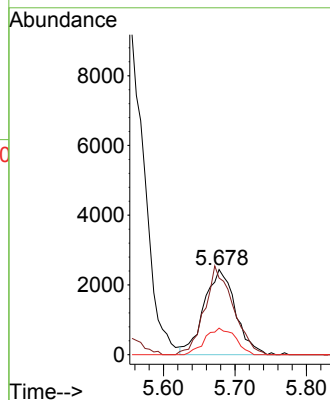
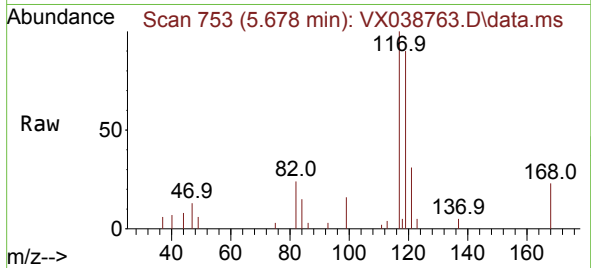




#38
Carbon Tetrachloride
Concen: 1.610 ug/l
RT: 5.678 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

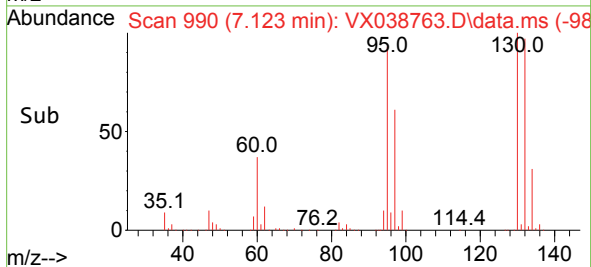
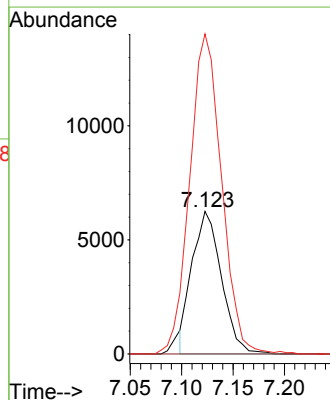
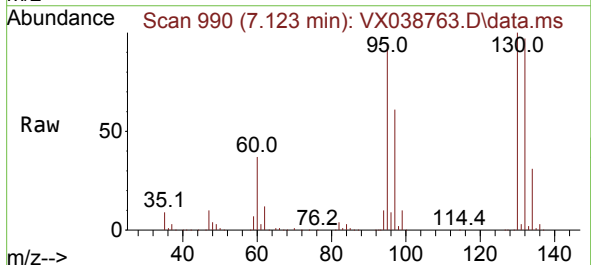
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

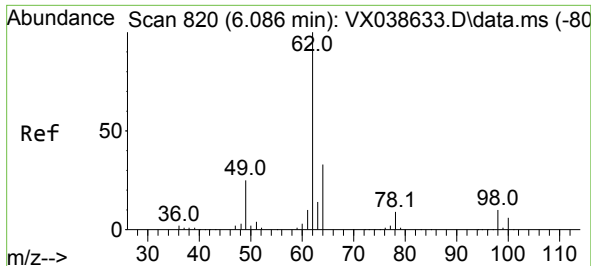
Tgt Ion:117 Resp: 7446
Ion Ratio Lower Upper
117 100
119 90.1 78.2 117.2
121 31.3 24.4 36.6



#39
Methylcyclohexane
Concen: 2.410 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.262 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 83 Resp: 12461
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 222.7 36.7 55.1#





#42

1,2-Dichloroethane

Concen: 0.403 ug/l

RT: 6.092 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

Instrument :

MSVOA_X

ClientSampleId :

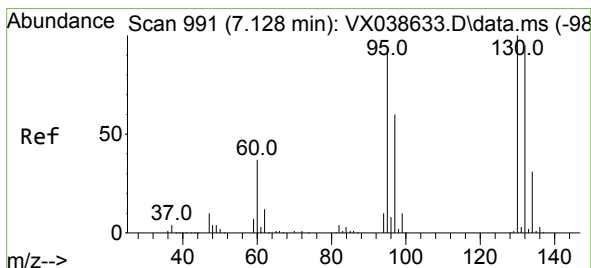
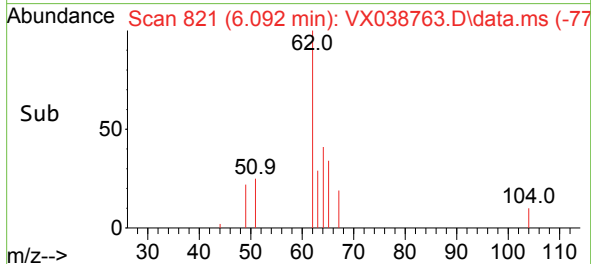
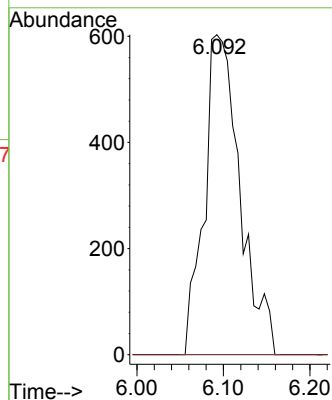
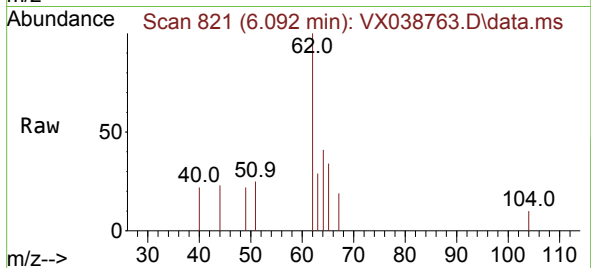
RE114D1-20231108

Tgt Ion: 62 Resp: 1732

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



#44

Trichloroethene

Concen: 341.374 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.006 min

Lab File: VX038763.D

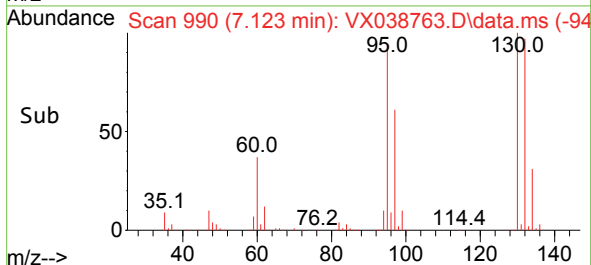
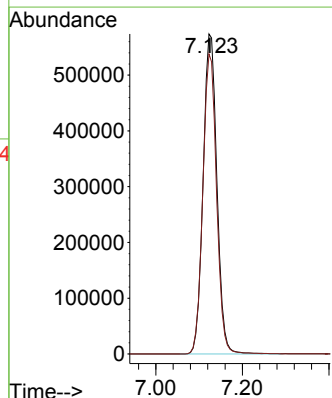
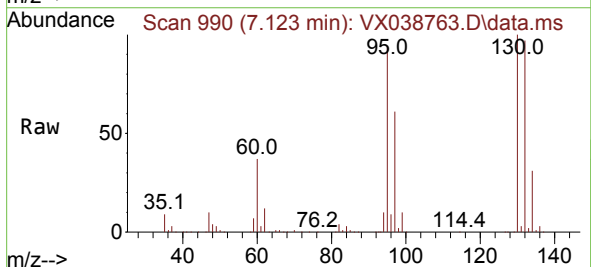
Acq: 11 Nov 2023 06:41

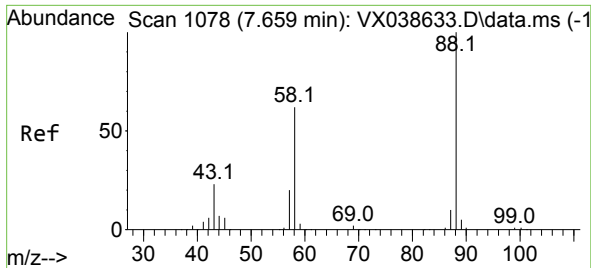
Tgt Ion:130 Resp: 1265389

Ion Ratio Lower Upper

130 100

95 93.7 0.0 204.4

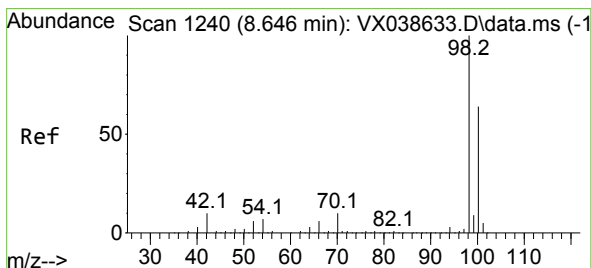
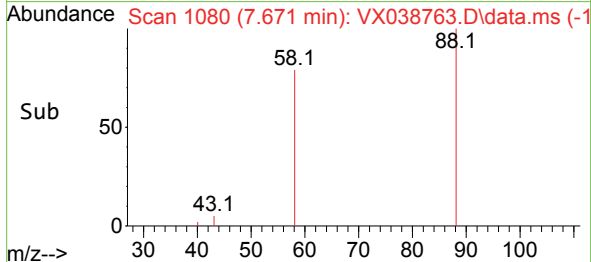
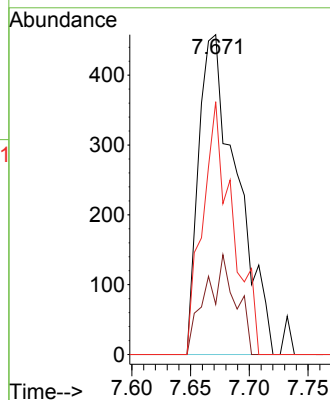
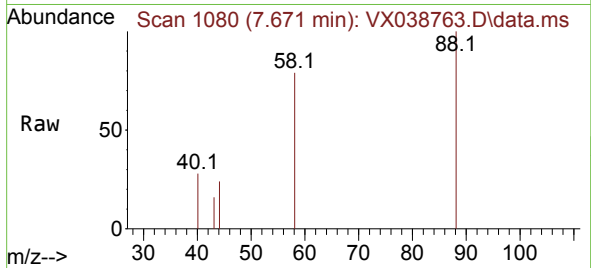




#49
1,4-Dioxane
Concen: 14.559 ug/l
RT: 7.671 min Scan# 1078
Delta R.T. 0.013 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

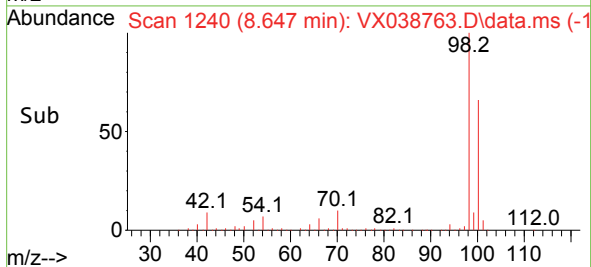
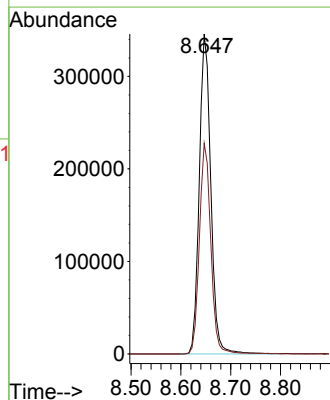
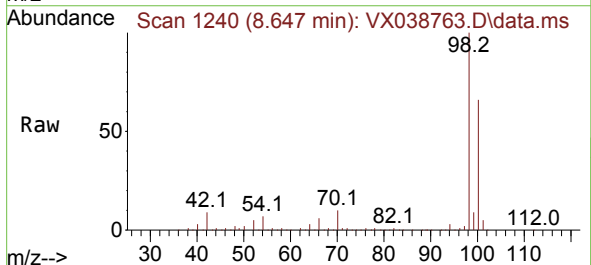
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

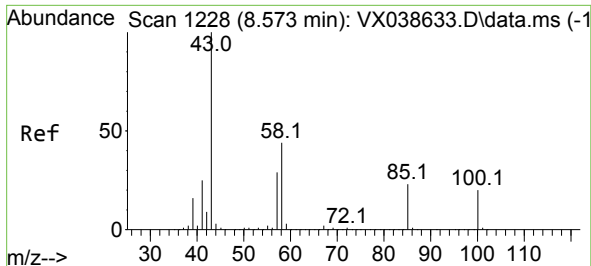
Tgt Ion: 88 Resp: 1037
Ion Ratio Lower Upper
88 100
43 24.4 0.0 0.0#
58 61.9 60.1 90.1



#50
Toluene-d8
Concen: 46.515 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 98 Resp: 554229
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7

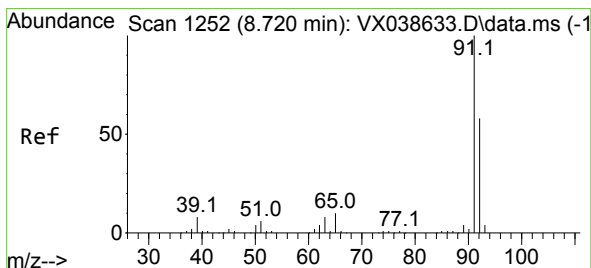
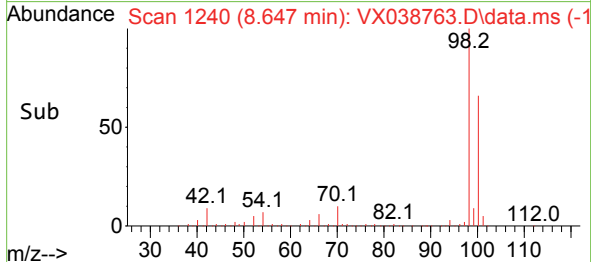
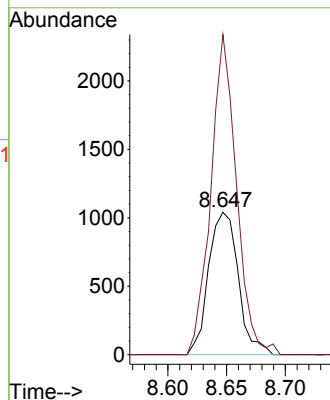
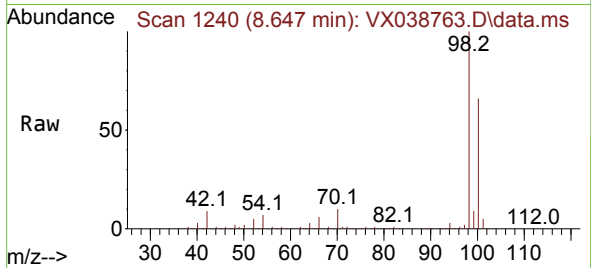




#51
4-Methyl-2-Pentanone
Concen: 0.434 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

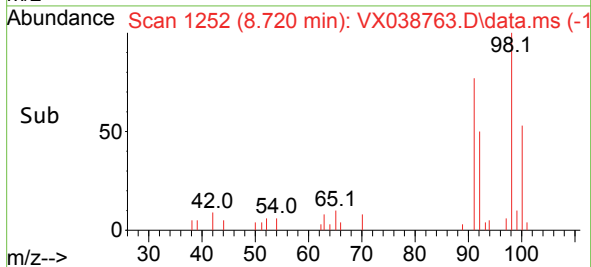
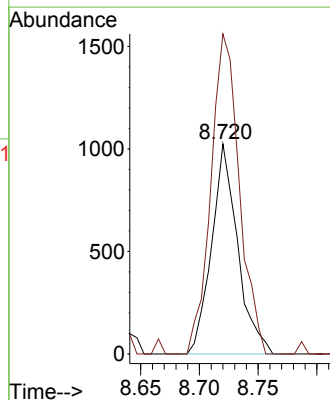
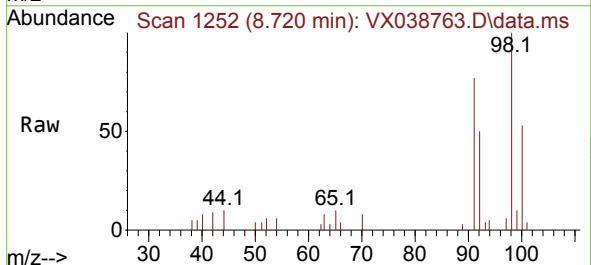
Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

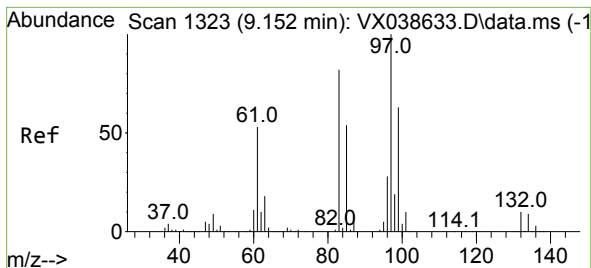
Tgt Ion: 43 Resp: 1835
Ion Ratio Lower Upper
43 100
58 193.7 30.4 45.6#



#52
Toluene
Concen: 0.203 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 92 Resp: 1581
Ion Ratio Lower Upper
92 100
91 166.2 134.2 201.2





#55

1,1,2-Trichloroethane

Concen: 1.012 ug/l

RT: 9.153 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20231108

Tgt Ion: 97 Resp: 3352

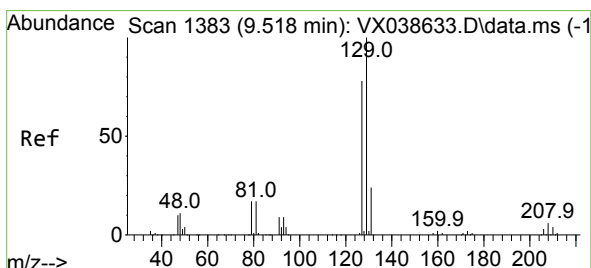
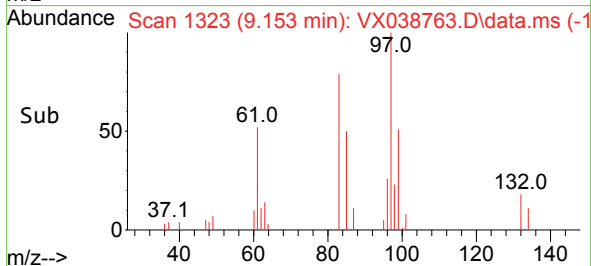
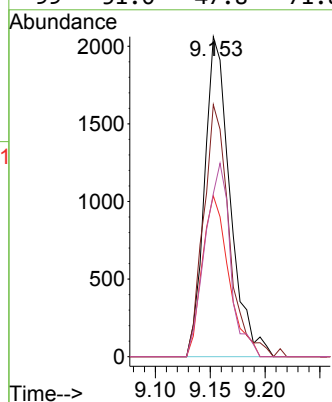
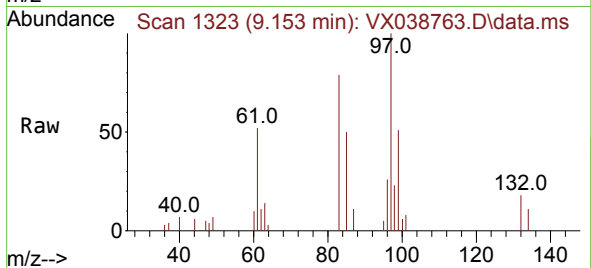
Ion Ratio Lower Upper

97 100

83 78.8 65.8 98.8

85 50.2 41.6 62.4

99 51.0 47.8 71.8



#60

Dibromochloromethane

Concen: 0.302 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX038763.D

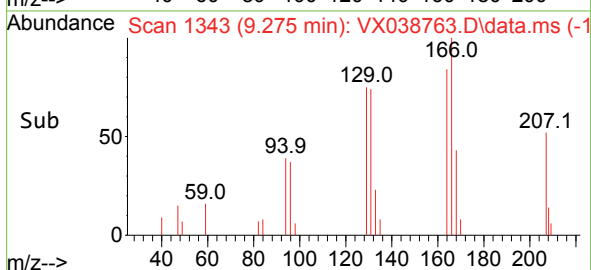
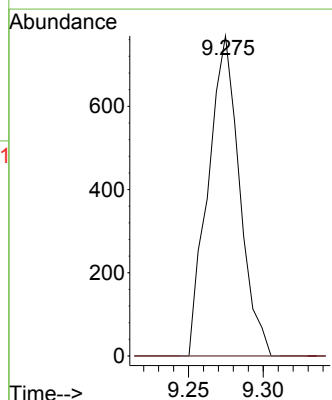
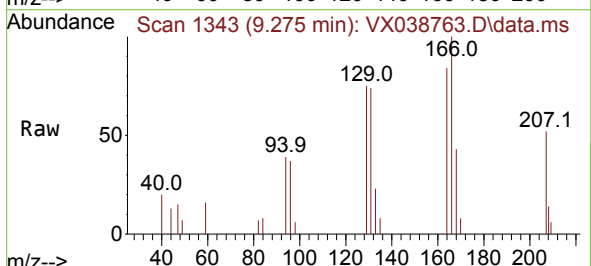
Acq: 11 Nov 2023 06:41

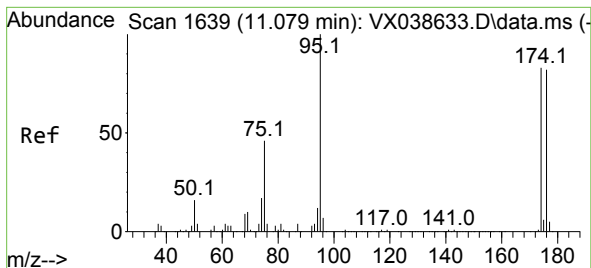
Tgt Ion:129 Resp: 1121

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 51.168 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

Instrument :

MSVOA_X

ClientSampleId :

RE114D1-20231108

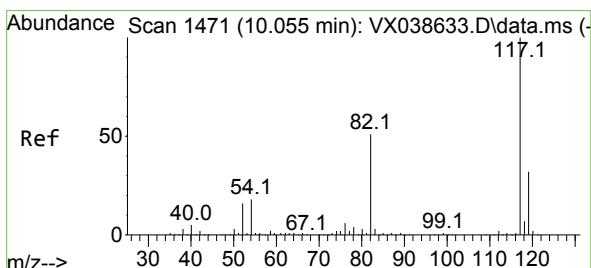
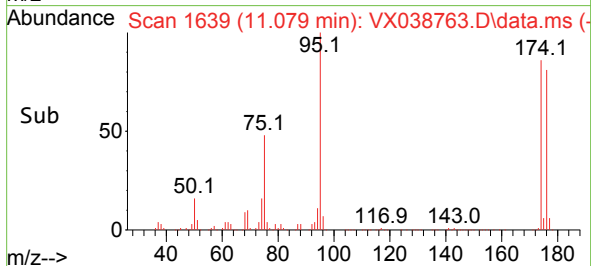
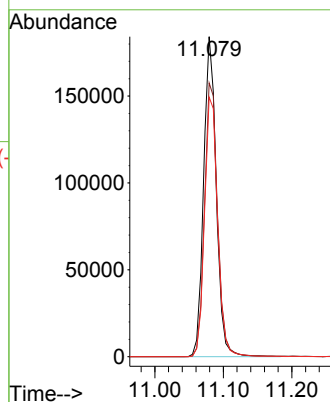
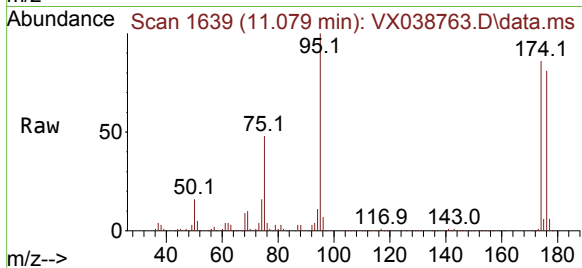
Tgt Ion: 95 Resp: 236378

Ion Ratio Lower Upper

95 100

174 88.9 0.0 135.6

176 84.6 0.0 131.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX038763.D

Acq: 11 Nov 2023 06:41

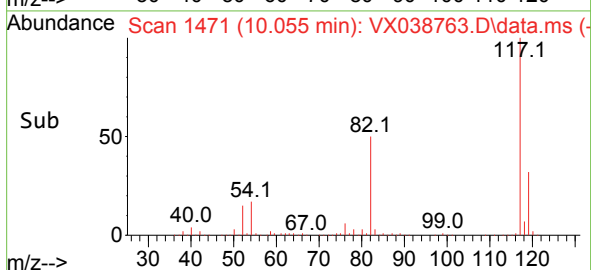
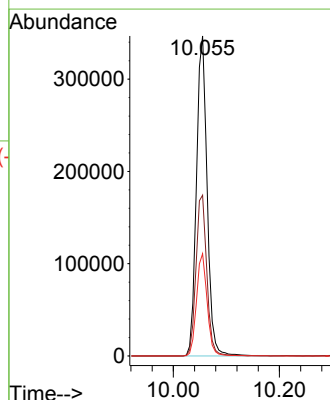
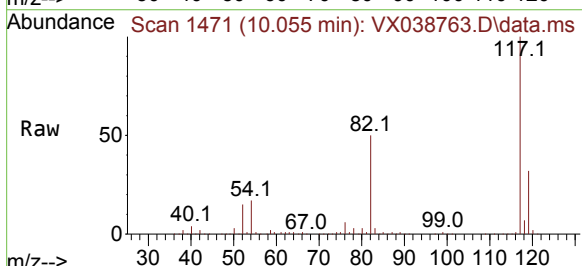
Tgt Ion: 117 Resp: 485129

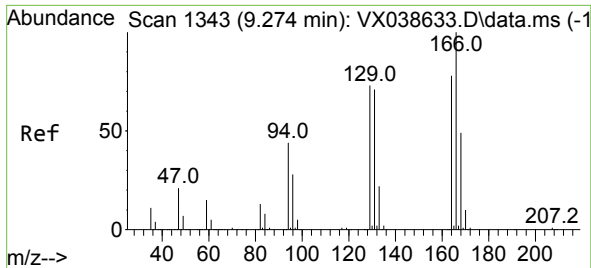
Ion Ratio Lower Upper

117 100

82 50.3 46.2 69.4

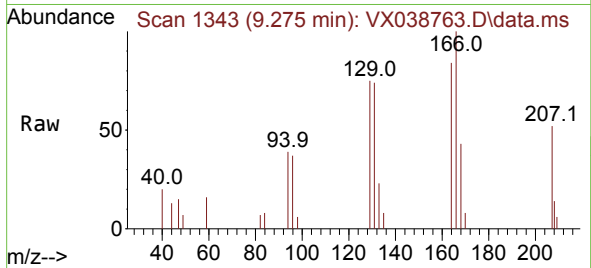
119 32.0 25.5 38.3





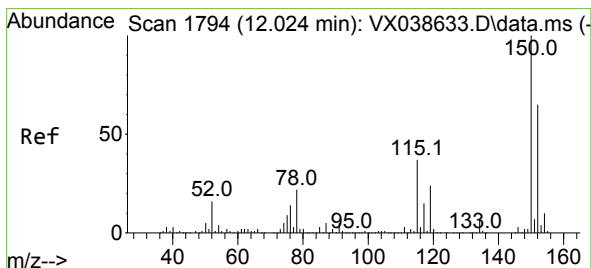
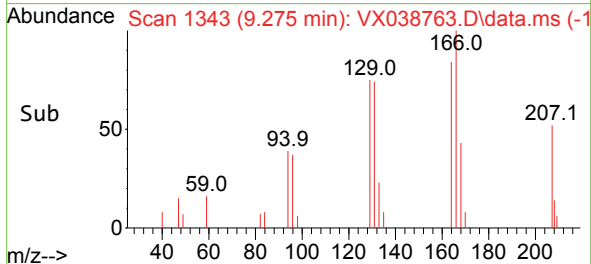
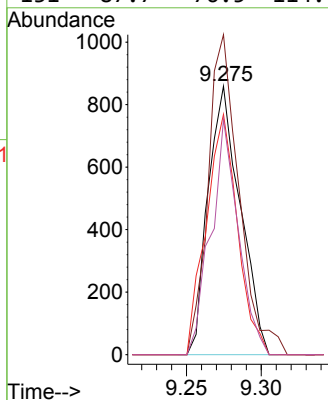
#64
Tetrachloroethene
Concen: 0.354 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108



Tgt Ion:164 Resp: 1284

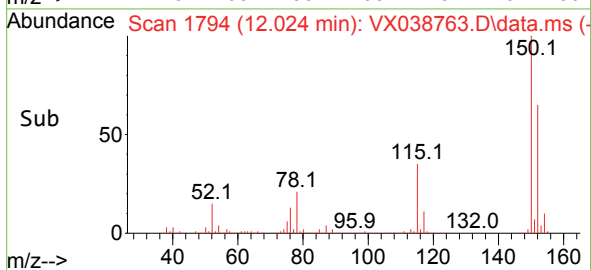
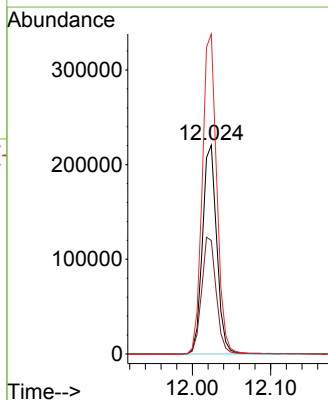
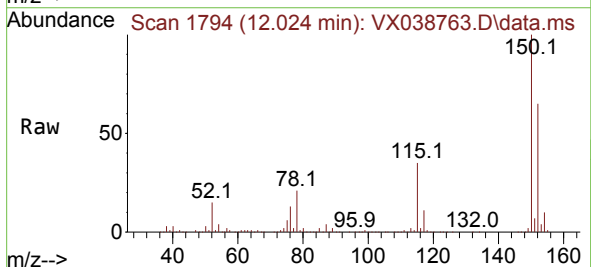
Ion	Ratio	Lower	Upper
164	100		
166	119.2	102.7	154.1
129	89.5	80.4	120.6
131	87.7	76.5	114.7

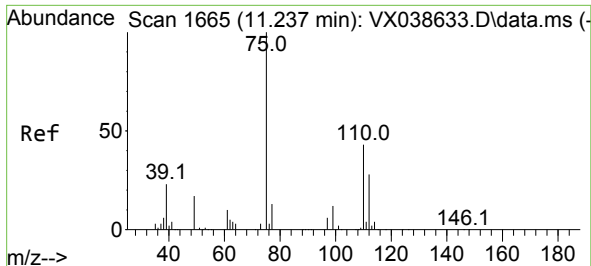


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion:152 Resp: 279318

Ion	Ratio	Lower	Upper
152	100		
115	57.2	43.3	129.9
150	155.4	0.0	345.0

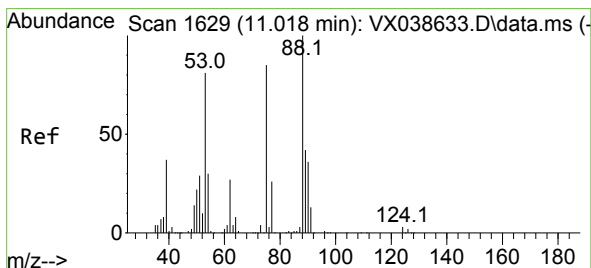
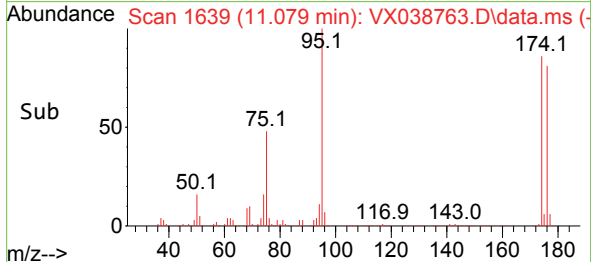
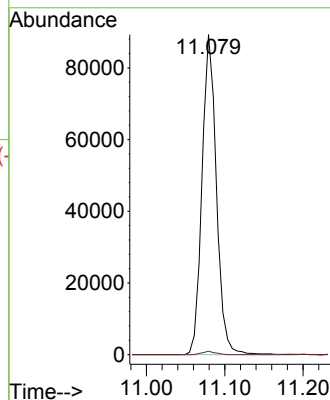
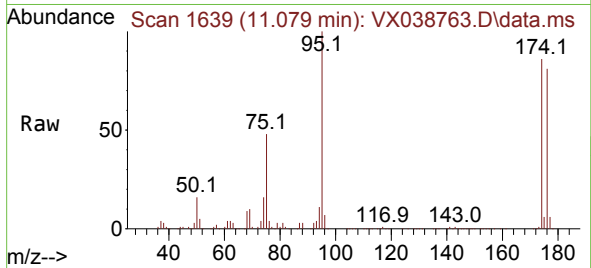




#76
1,2,3-Trichloropropane
Concen: 20.584 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20231108

Tgt Ion: 75 Resp: 113868
Ion Ratio Lower Upper
75 100
77 1.0 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.710 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX038763.D
Acq: 11 Nov 2023 06:41

Tgt Ion: 75 Resp: 113868
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

