

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051023\
 Data File : VY013688.D
 Acq On : 10 May 2023 15:20
 Operator : KP/MD
 Sample : 02723-09
 Misc : 6.59g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-14-G1-SO-44.5-050923

Quant Time: May 11 03:28:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

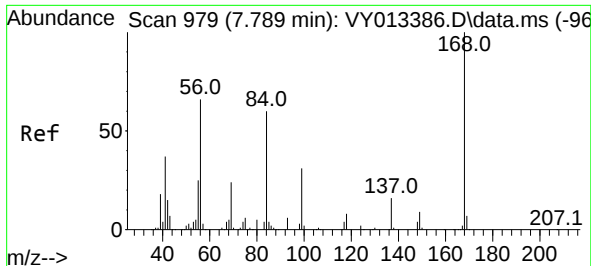
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	201734	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	319004	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	301696	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	135282	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	133052	60.165	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.340%			
35) Dibromofluoromethane	7.716	113	107409	53.533	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.060%			
50) Toluene-d8	10.179	98	387002	54.221	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.440%			
62) 4-Bromofluorobenzene	12.477	95	121947	50.679	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.863	85	12105	6.312	ug/l	100
4) Vinyl Chloride	2.253	62	18392	7.185	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.899	101	15042455	6915.947	ug/l	93
11) Tert butyl alcohol	4.972	59	231	1.575	ug/l #	43
12) 1,1-Dichloroethene	3.899	96	59640	28.446	ug/l #	56
13) Acrolein	3.906	56	2365	3.510	ug/l #	16
16) Acetone	3.899	43	211526	242.885	ug/l #	76
20) Methylene Chloride	4.723	84	9745	Below Cal		86
21) trans-1,2-Dichloroethene	5.222	96	2690	1.173	ug/l	97
24) 1,1-Dichloroethane	6.021	63	4884	1.152	ug/l #	91
27) cis-1,2-Dichloroethene	6.984	96	394392	155.716	ug/l	92
29) Tetrahydrofuran	7.350	42	4341	6.314	ug/l #	76
30) Chloroform	7.509	83	7324	1.738	ug/l	88
31) Cyclohexane	7.789	56	4680	1.182	ug/l #	8
36) 1,1-Dichloropropene	7.783	75	14887	4.471	ug/l #	48
38) Carbon Tetrachloride	7.789	117	18804	5.388	ug/l #	16
39) Methylcyclohexane	8.941	83	482883	123.009	ug/l #	1
41) Methacrylonitrile	7.362	41	3086	2.643	ug/l #	36
44) Trichloroethene	8.935	130	21837551	8752.362	ug/l	94
45) 1,2-Dichloropropane	8.941	63	99721	40.661	ug/l #	1
49) 1,4-Dioxane	9.301	88	59	2.815	ug/l #	1
55) 1,1,2-Trichloroethane	10.642	97	6999	3.602	ug/l	93
60) Dibromochloromethane	10.715	129	31594	13.389	ug/l #	11
64) Tetrachloroethene	10.715	164	36161	15.763	ug/l	96
76) 1,2,3-Trichloropropane	12.483	75	65050	35.655	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	65050	72.934	ug/l #	13

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

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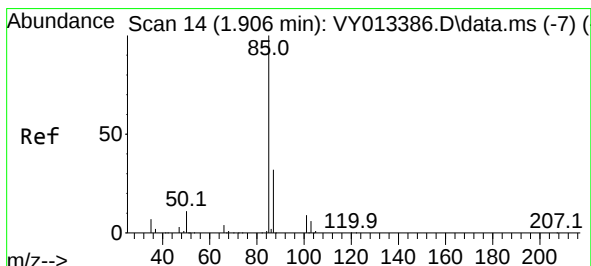
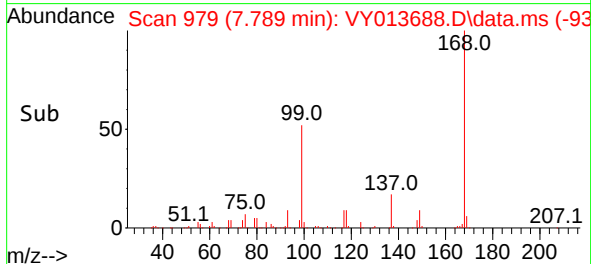
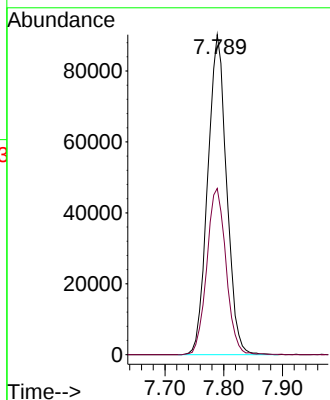
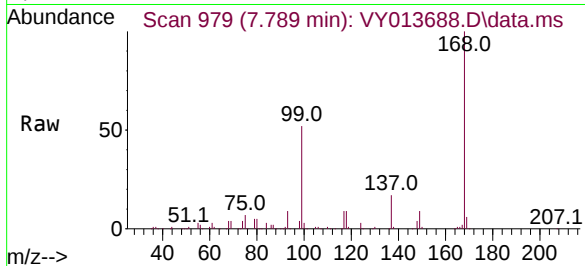




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

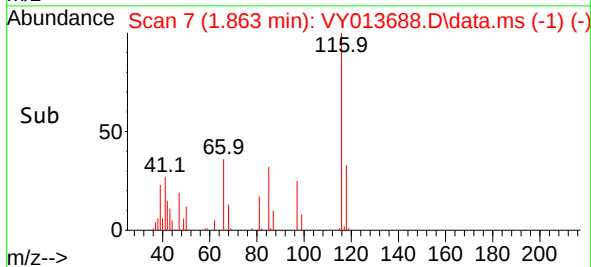
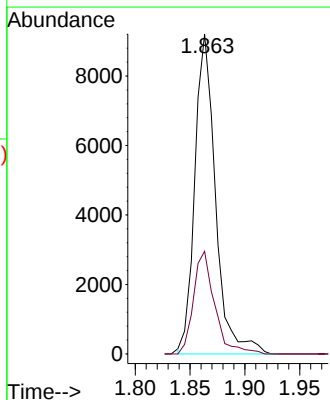
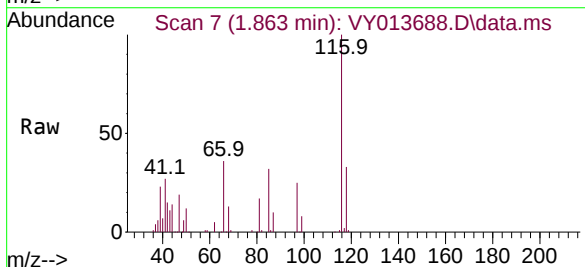
Instrument :
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CB-14-G1-SO-44.5-050923

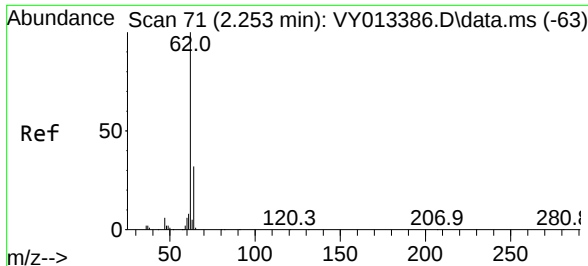
Tgt Ion:168 Resp: 201734
Ion Ratio Lower Upper
168 100
99 51.9 41.8 62.6



#2
Dichlorodifluoromethane
Concen: 6.312 ug/l
RT: 1.863 min Scan# 7
Delta R.T. -0.043 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 85 Resp: 12105
Ion Ratio Lower Upper
85 100
87 32.1 16.1 48.2

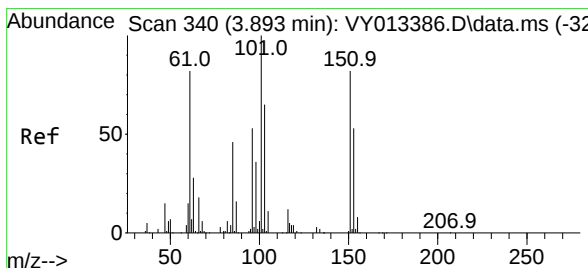
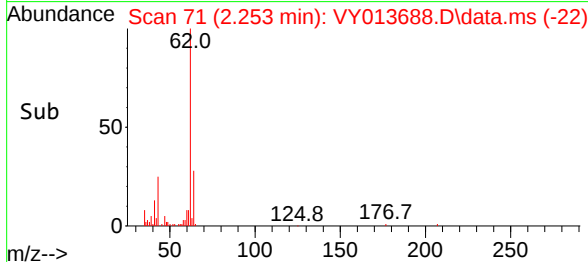
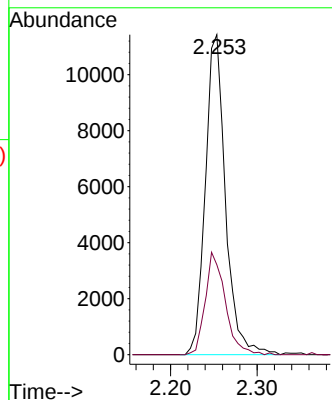
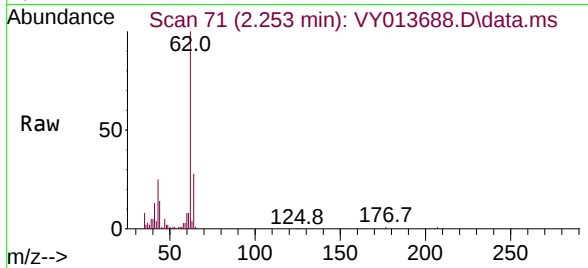




#4
 Vinyl Chloride
 Concen: 7.185 ug/l
 RT: 2.253 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VY013688.D
 Acq: 10 May 2023 15:20

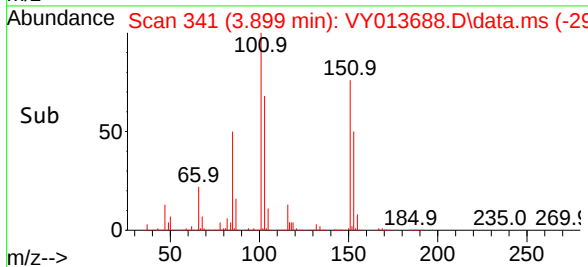
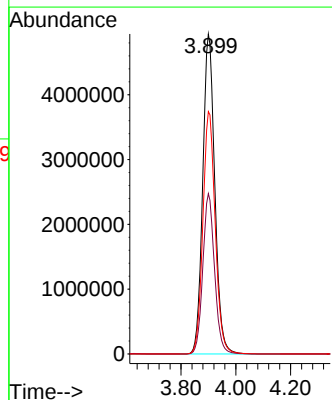
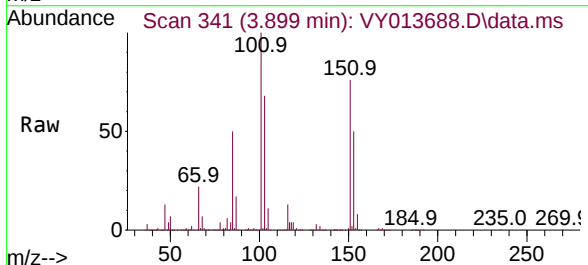
Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-14-G1-SO-44.5-050923

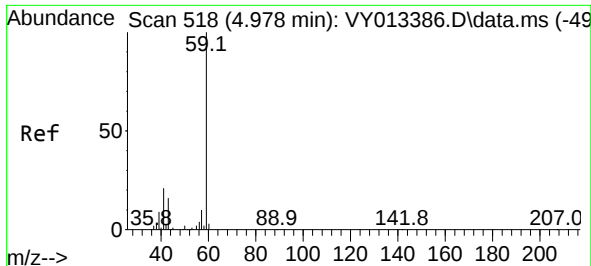
Tgt Ion: 62 Resp: 18392
 Ion Ratio Lower Upper
 62 100
 64 28.1 25.4 38.0



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 6915.947 ug/l
 RT: 3.899 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VY013688.D
 Acq: 10 May 2023 15:20

Tgt Ion: 101 Resp: 15042455
 Ion Ratio Lower Upper
 101 100
 85 48.8 35.6 53.4
 151 77.7 68.0 102.0

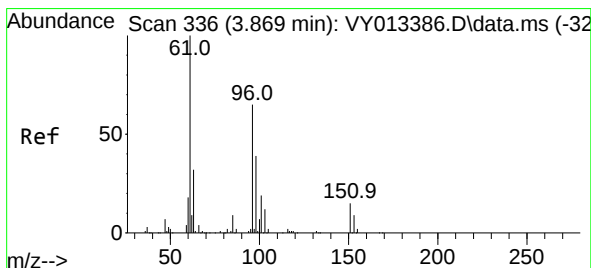
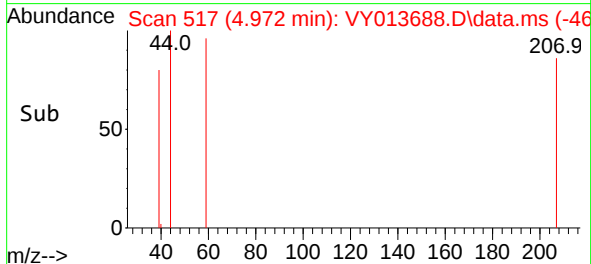
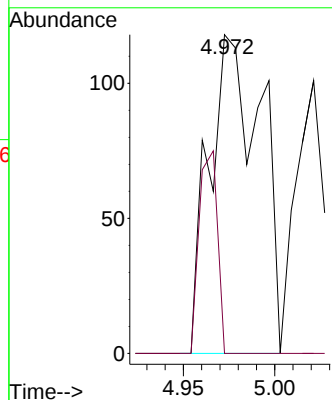
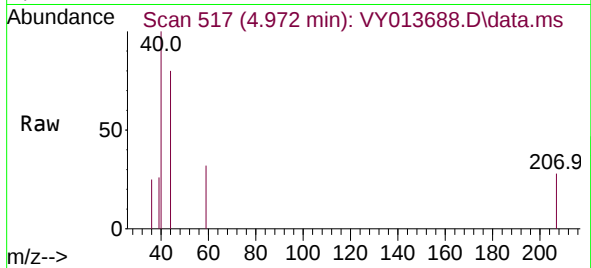




#11
Tert butyl alcohol
Concen: 1.575 ug/l
RT: 4.972 min Scan# 518
Delta R.T. -0.006 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

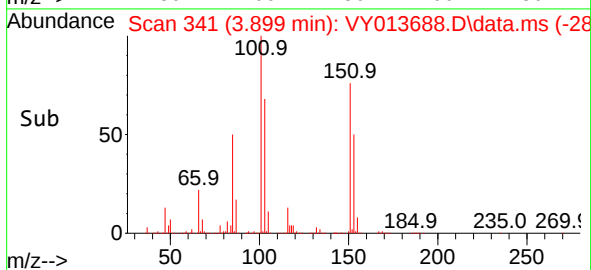
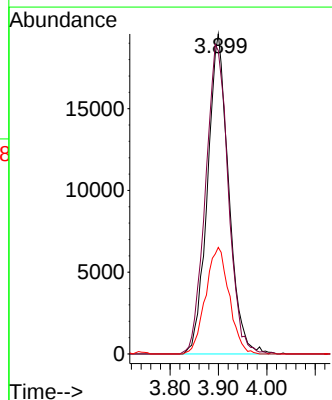
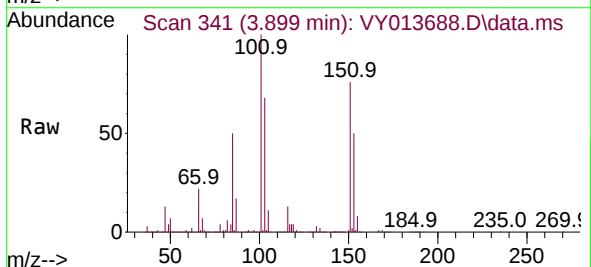
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

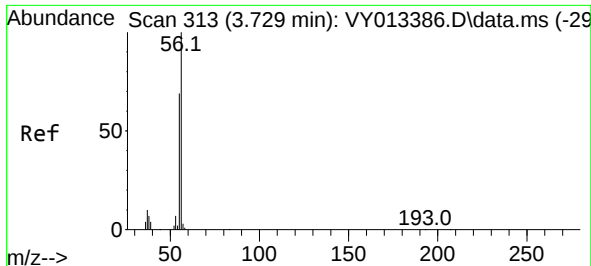
Tgt Ion: 59 Resp: 231
Ion Ratio Lower Upper
59 100
57 22.5 3.0 4.4#



#12
1,1-Dichloroethene
Concen: 28.446 ug/l
RT: 3.899 min Scan# 341
Delta R.T. 0.030 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 96 Resp: 59640
Ion Ratio Lower Upper
96 100
61 94.8 123.9 185.9#
98 33.3 48.9 73.3#





#13

Acrolein

Concen: 3.510 ug/l

RT: 3.906 min Scan# 34

Delta R.T. 0.177 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

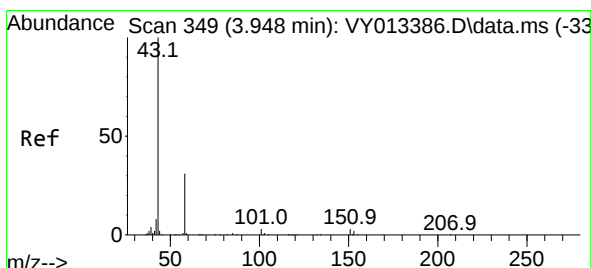
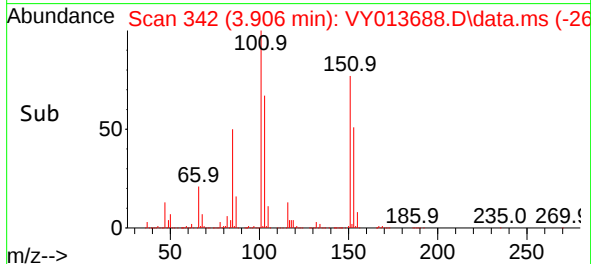
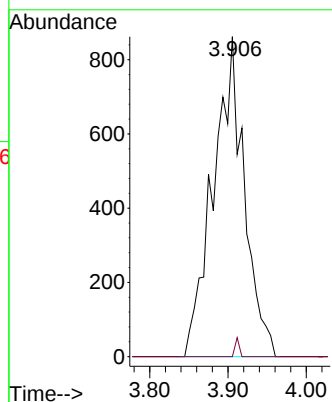
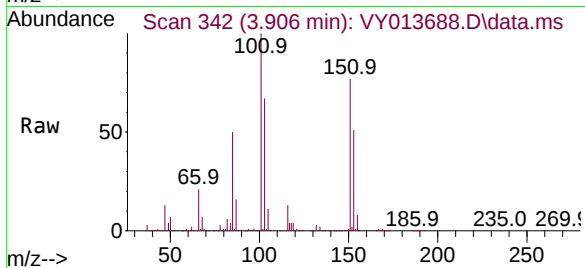
CB-14-G1-SO-44.5-050923

Tgt Ion: 56 Resp: 2365

Ion Ratio Lower Upper

56 100

55 0.0 54.1 81.1#



#16

Acetone

Concen: 242.885 ug/l

RT: 3.899 min Scan# 341

Delta R.T. -0.049 min

Lab File: VY013688.D

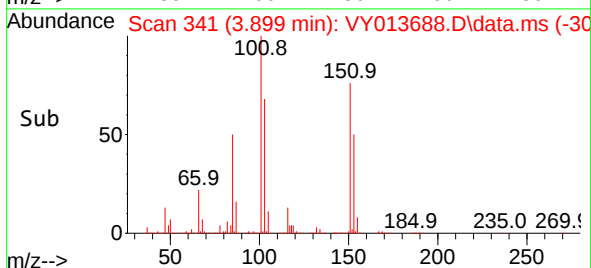
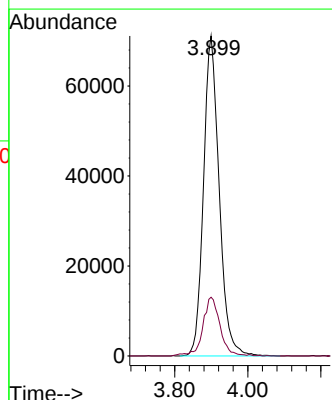
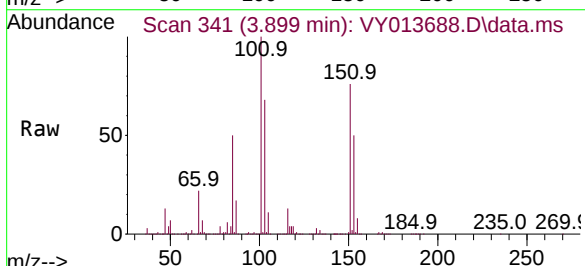
Acq: 10 May 2023 15:20

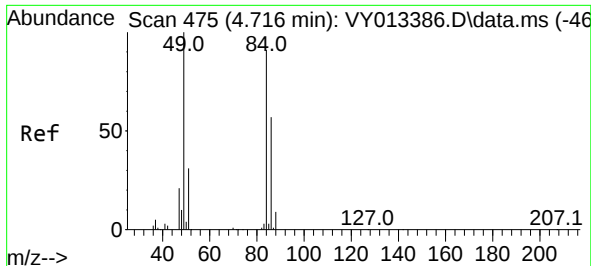
Tgt Ion: 43 Resp: 211526

Ion Ratio Lower Upper

43 100

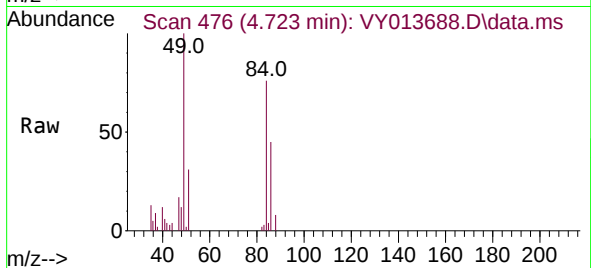
58 18.3 25.4 38.0#



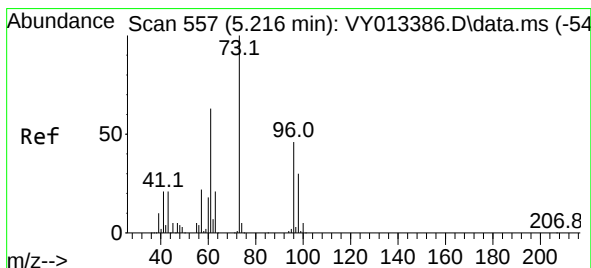
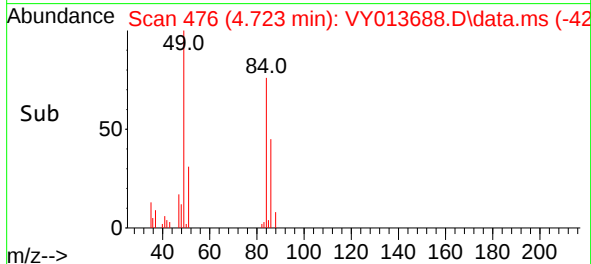
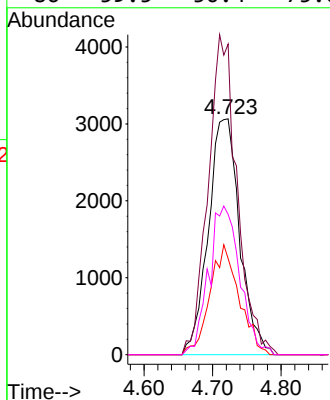


#20
Methylene Chloride
Concen: Below Cal
RT: 4.723 min Scan# 41
Delta R.T. 0.007 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

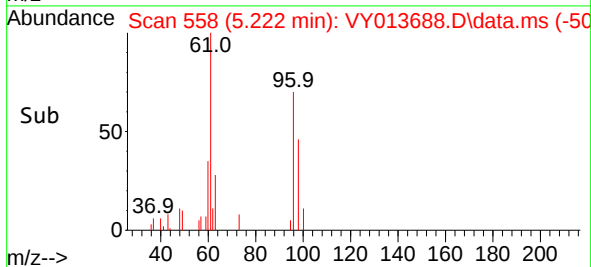
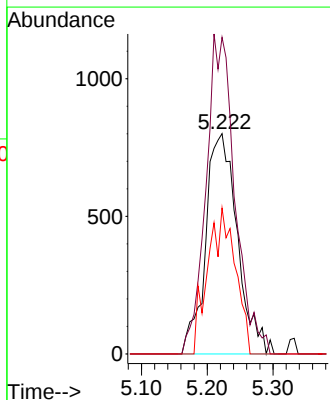
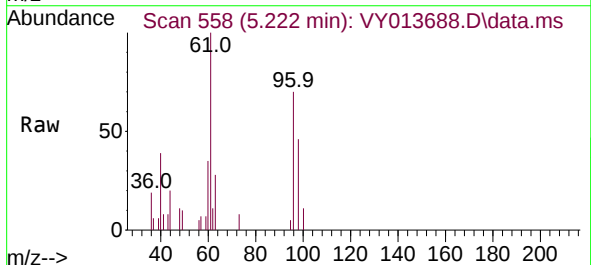


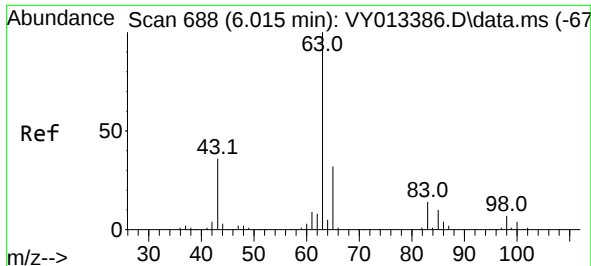
Tgt Ion:	84	Resp:	9745
Ion	Ratio	Lower	Upper
84	100		
49	131.7	88.0	132.0
51	40.8	27.4	41.0
86	59.5	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: 1.173 ug/l
RT: 5.222 min Scan# 558
Delta R.T. 0.006 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion:	96	Resp:	2690
Ion	Ratio	Lower	Upper
96	100		
61	143.7	110.6	165.8
98	66.2	53.1	79.7





#24

1,1-Dichloroethane

Concen: 1.152 ug/l

RT: 6.021 min Scan# 61

Delta R.T. 0.006 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

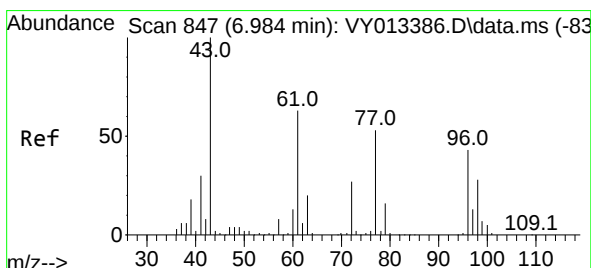
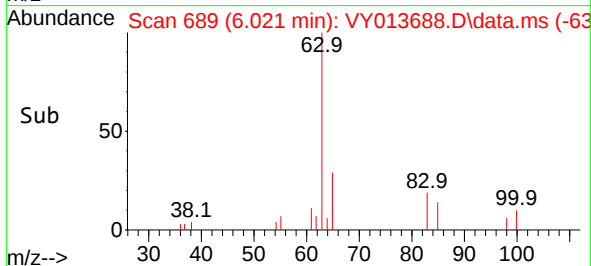
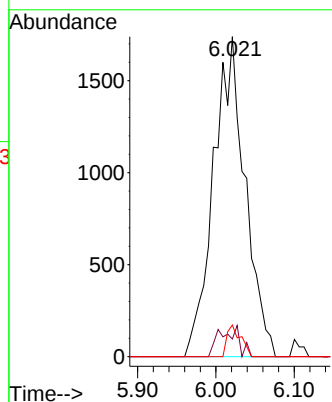
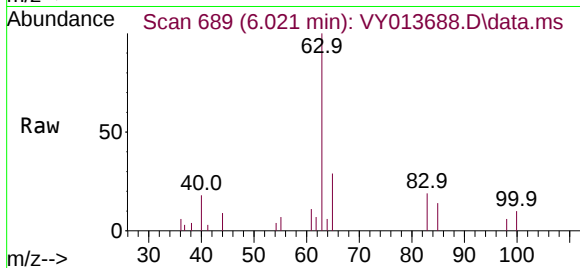
Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-44.5-050923

Tgt Ion: 63	Resp: 4884
Ion Ratio	Lower Upper
63	100
98	5.5 3.5 10.6
100	9.9 2.2 6.6#



#27

cis-1,2-Dichloroethene

Concen: 155.716 ug/l

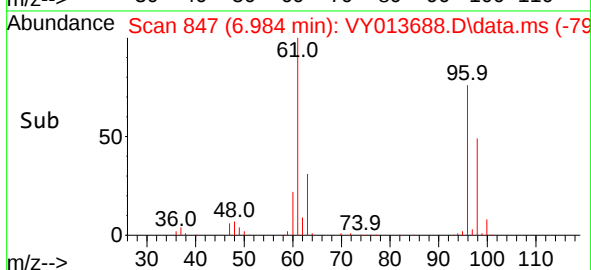
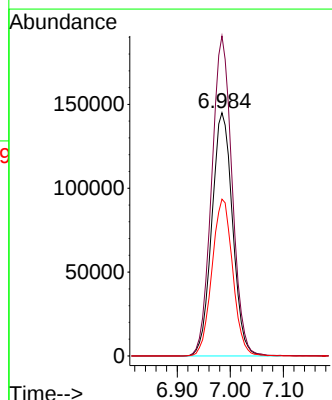
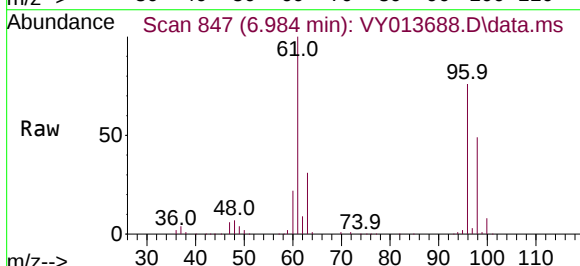
RT: 6.984 min Scan# 847

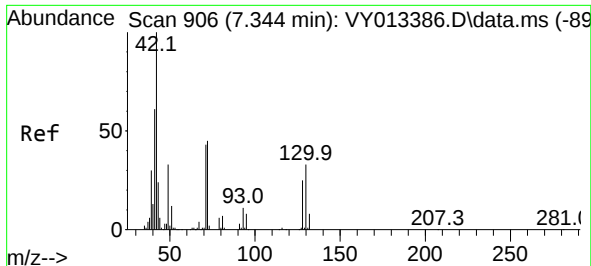
Delta R.T. 0.000 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

Tgt Ion: 96	Resp: 394392
Ion Ratio	Lower Upper
96	100
61	129.6 0.0 285.0
98	64.4 0.0 130.6





#29

Tetrahydrofuran

Concen: 6.314 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY013688.D

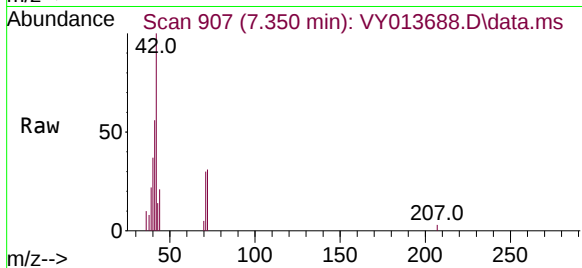
Acq: 10 May 2023 15:20

Instrument :

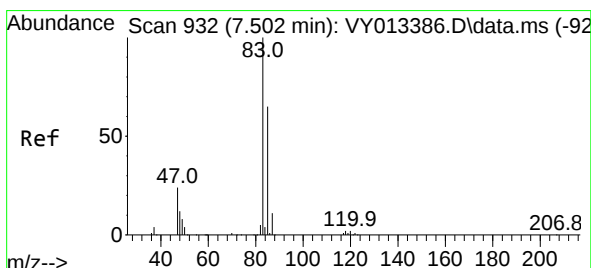
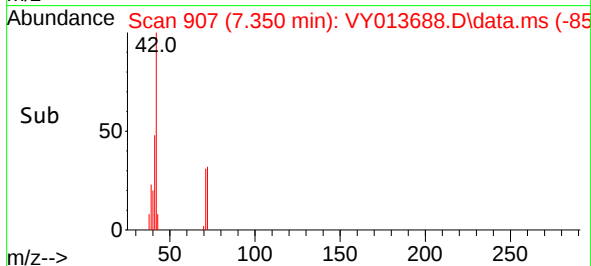
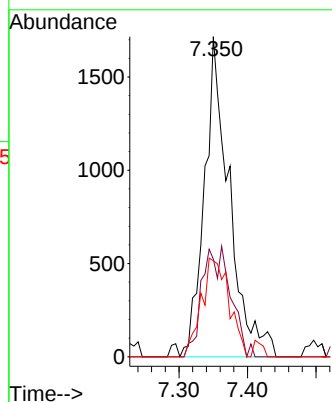
MSVOA_Y

ClientSampleId :

CB-14-G1-SO-44.5-050923



Tgt Ion:	42	Resp:	4341
Ion	Ratio	Lower	Upper
42	100		
72	22.2	35.9	53.9#
71	34.2	34.3	51.5#



#30

Chloroform

Concen: 1.738 ug/l

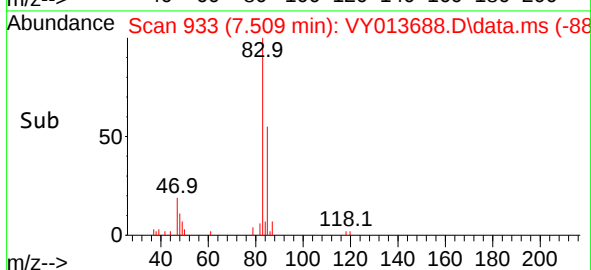
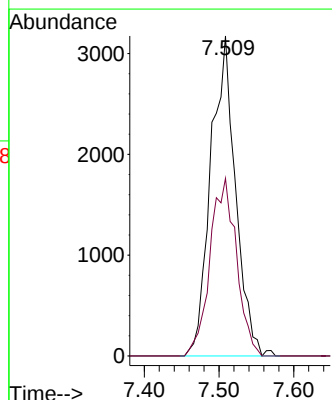
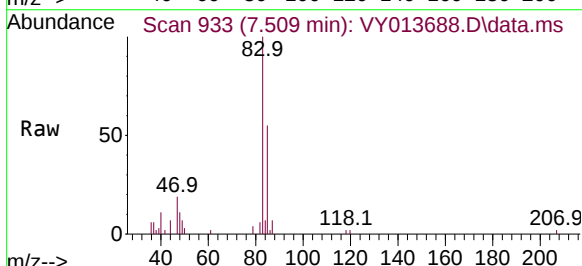
RT: 7.509 min Scan# 933

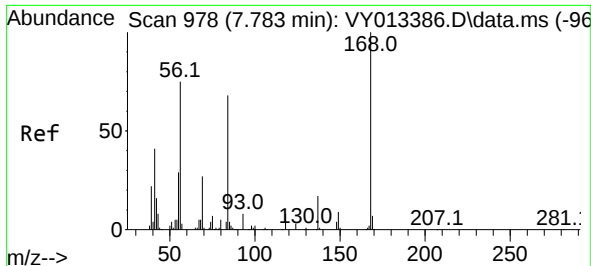
Delta R.T. 0.007 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

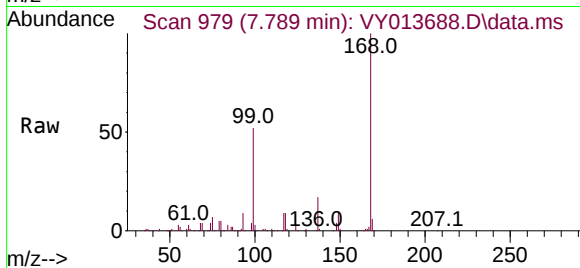
Tgt Ion:	83	Resp:	7324
Ion	Ratio	Lower	Upper
83	100		
85	55.5	52.0	78.0



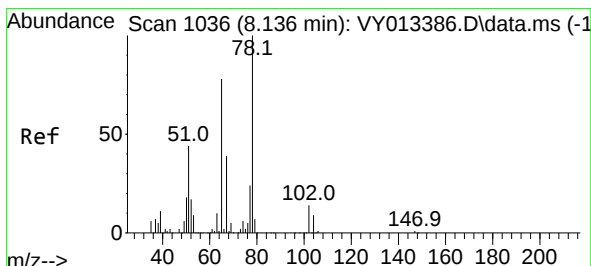
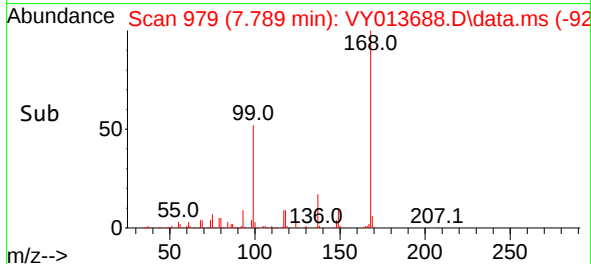
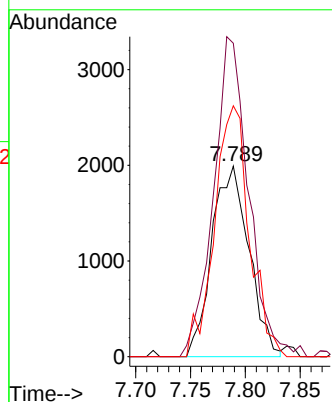


#31
Cyclohexane
Concen: 1.182 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

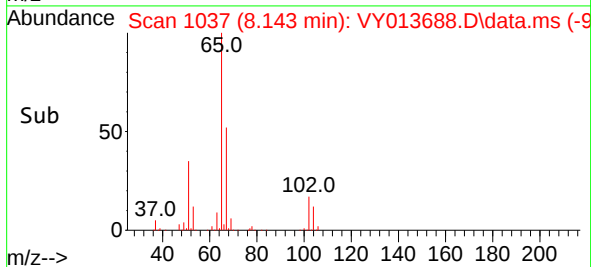
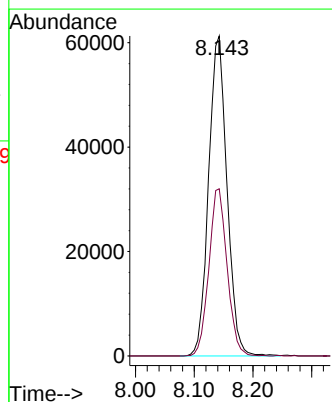
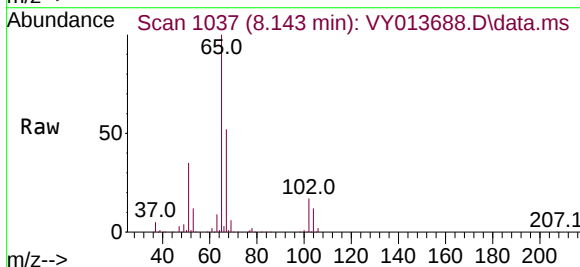


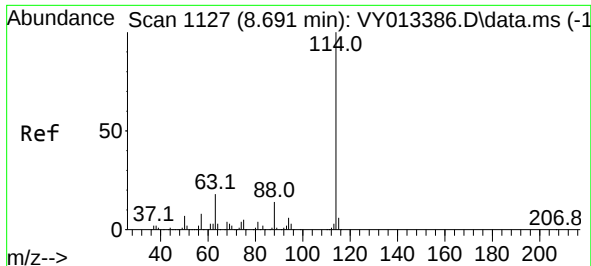
Tgt Ion: 56 Resp: 4680
Ion Ratio Lower Upper
56 100
69 164.5 29.2 43.8#
84 131.7 73.0 109.6#



#33
1,2-Dichloroethane-d4
Concen: 60.165 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.007 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 65 Resp: 133052
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.4

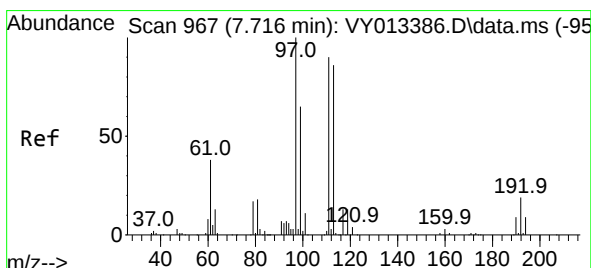
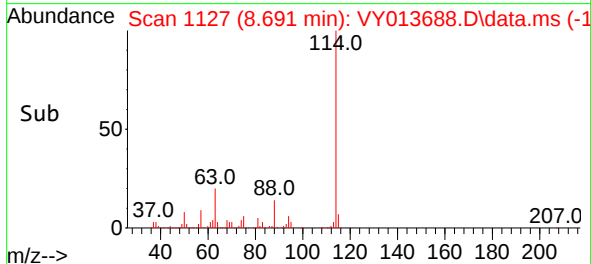
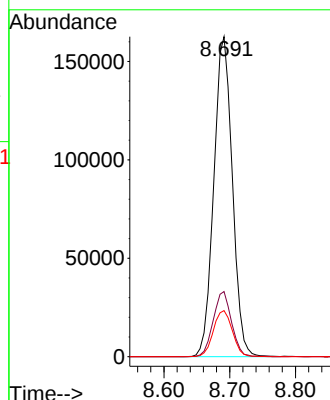
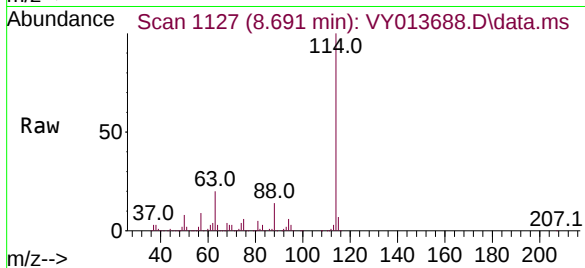




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

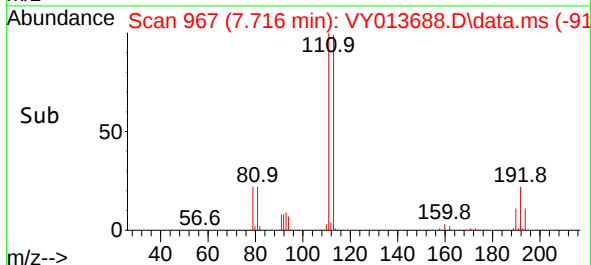
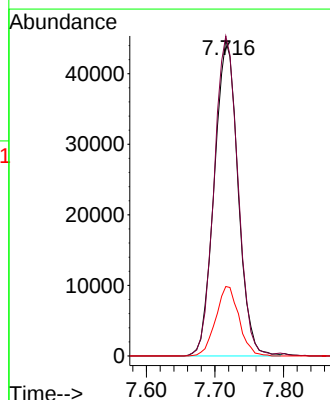
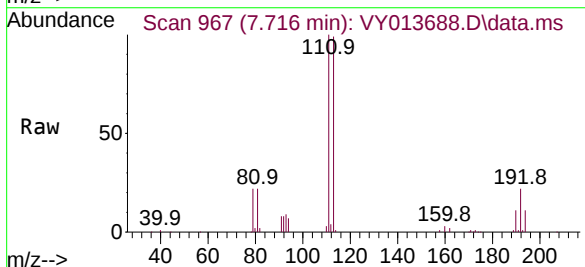
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

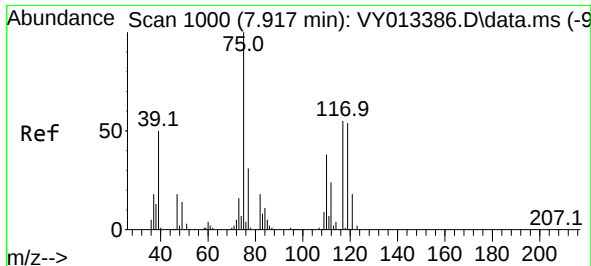
Tgt Ion:	114	Resp:	319004
Ion Ratio	Lower	Upper	
114	100		
63	20.3	0.0	36.6
88	14.4	0.0	28.8



#35
Dibromofluoromethane
Concen: 53.533 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion:	113	Resp:	107409
Ion Ratio	Lower	Upper	
113	100		
111	101.3	82.2	123.2
192	21.6	16.7	25.1

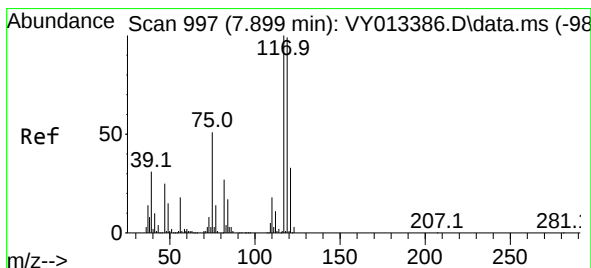
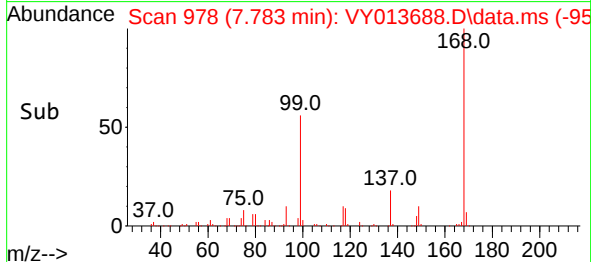
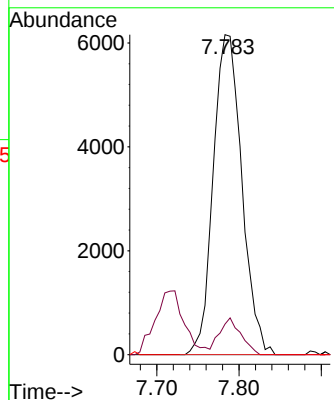
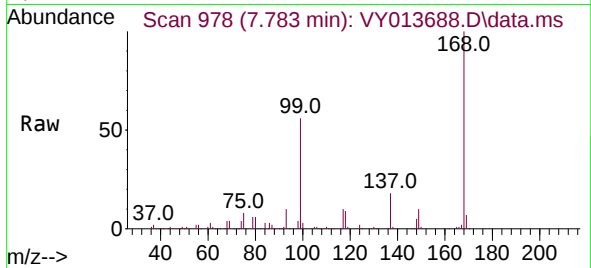




#36
1,1-Dichloropropene
Concen: 4.471 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

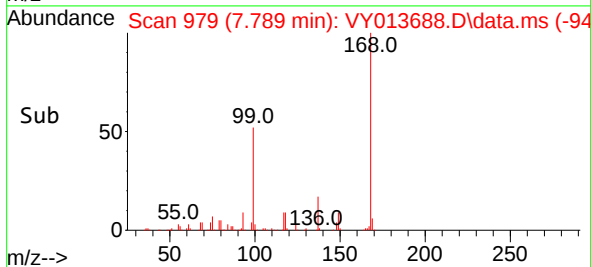
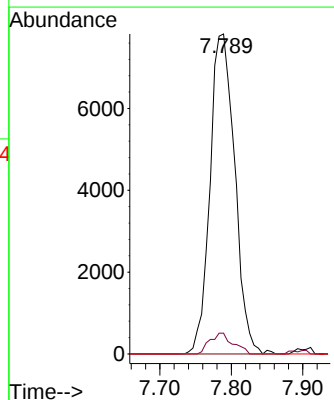
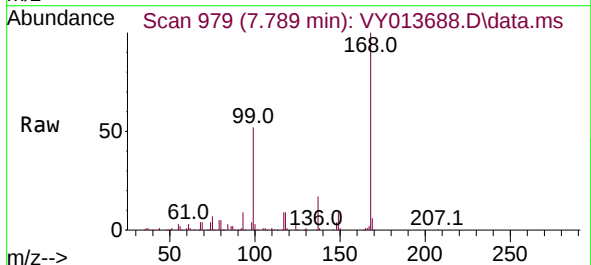
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

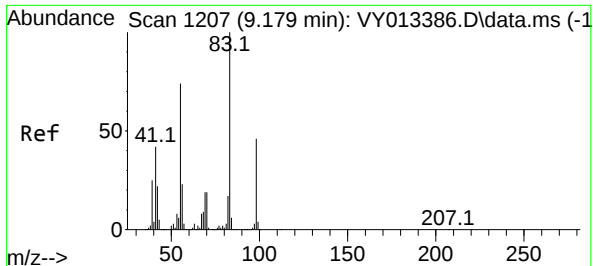
Tgt Ion: 75 Resp: 14887
Ion Ratio Lower Upper
75 100
110 8.6 18.7 56.1#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 5.388 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 117 Resp: 18804
Ion Ratio Lower Upper
117 100
119 6.5 79.0 118.6#
121 0.0 26.6 40.0#





#39

Methylcyclohexane

Concen: 123.009 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. -0.238 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-44.5-050923

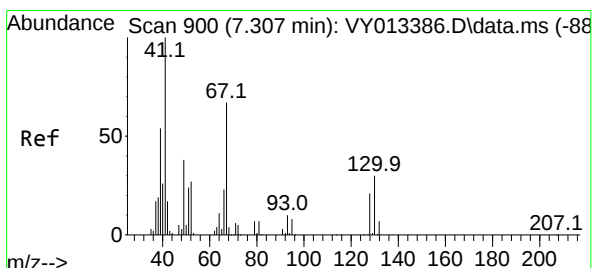
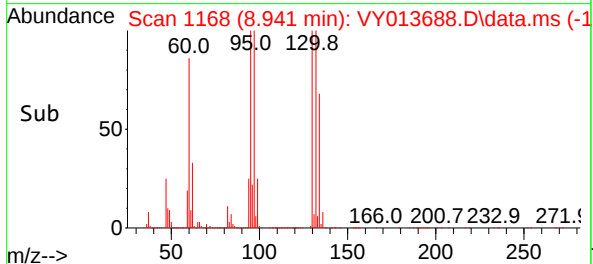
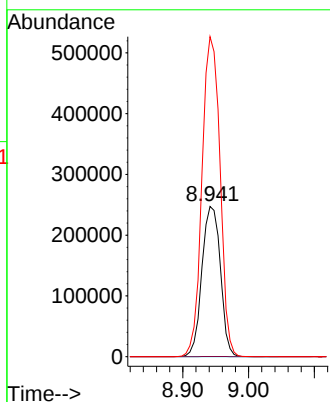
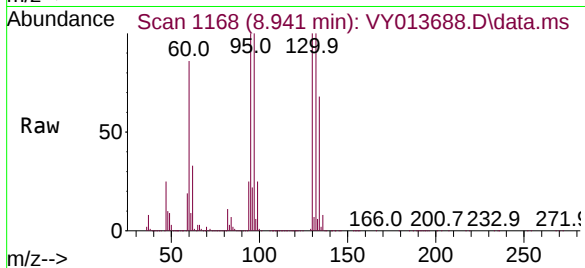
Tgt Ion: 83 Resp: 482883

Ion Ratio Lower Upper

83 100

55 0.1 59.0 88.4#

98 212.8 37.0 55.4#



#41

Methacrylonitrile

Concen: 2.643 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.055 min

Lab File: VY013688.D

Acq: 10 May 2023 15:20

Tgt Ion: 41 Resp: 3086

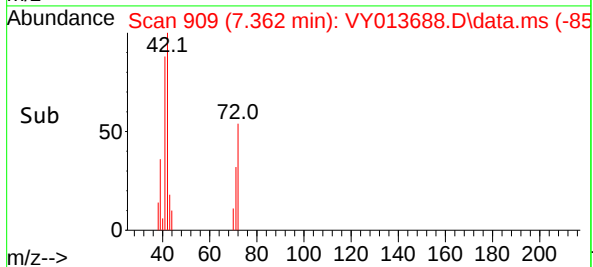
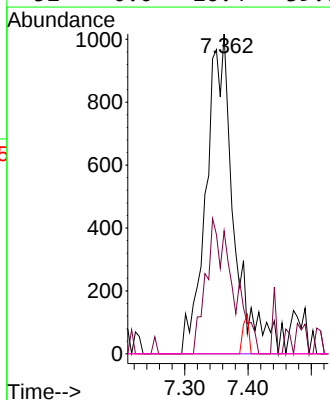
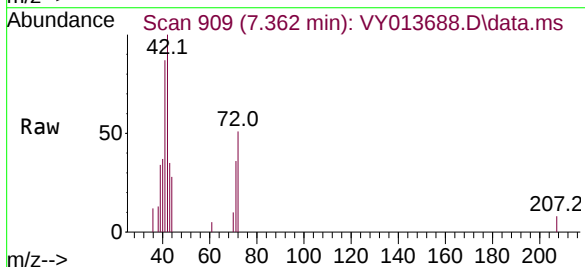
Ion Ratio Lower Upper

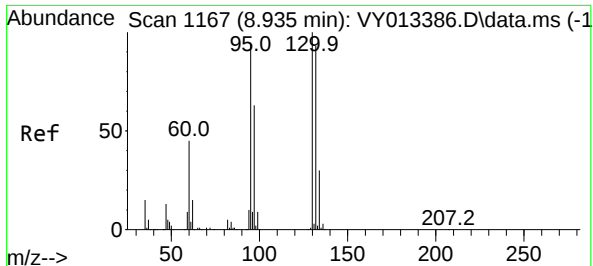
41 100

39 33.6 44.2 66.4#

67 0.0 62.9 94.3#

52 0.0 26.4 39.6#

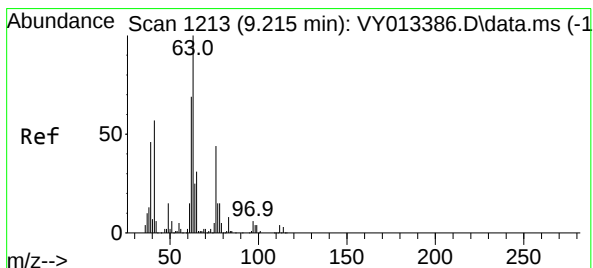
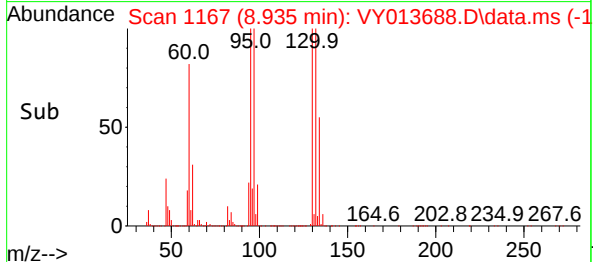
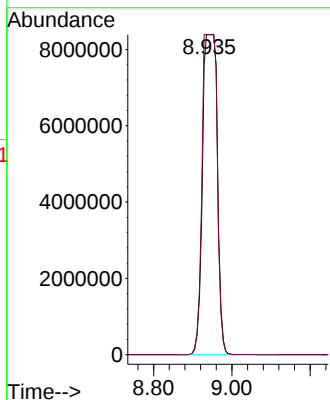
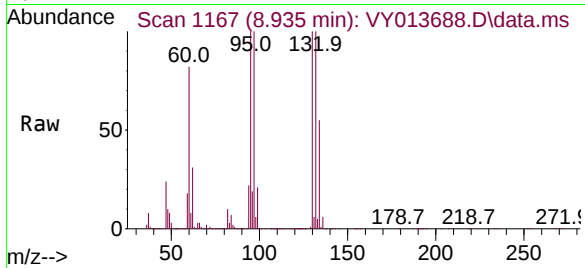




#44
 Trichloroethene
 Concen: 8752.362 ug/l
 RT: 8.935 min Scan# 1167
 Delta R.T. 0.000 min
 Lab File: VY013688.D
 Acq: 10 May 2023 15:20

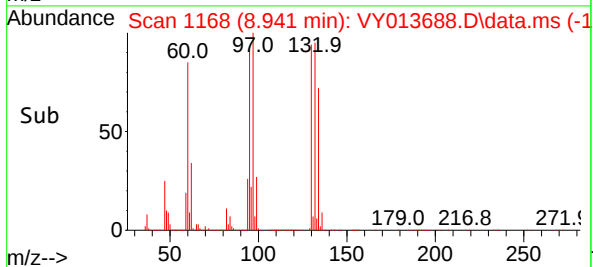
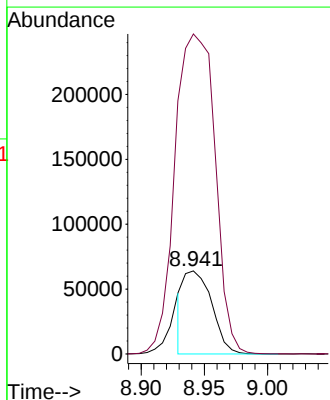
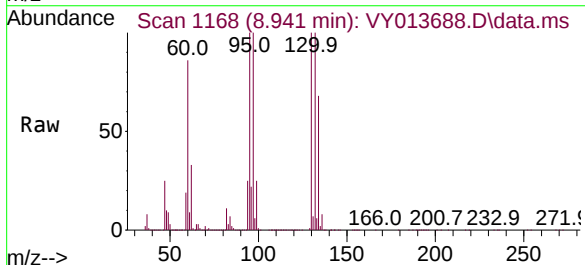
Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-14-G1-SO-44.5-050923

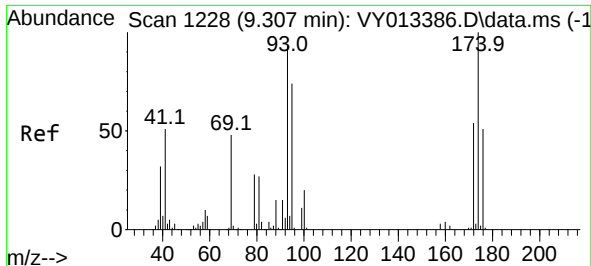
Tgt Ion:130 Resp:21837551
 Ion Ratio Lower Upper
 130 100
 95 100.0 0.0 188.8



#45
 1,2-Dichloropropane
 Concen: 40.661 ug/l
 RT: 8.941 min Scan# 1168
 Delta R.T. -0.274 min
 Lab File: VY013688.D
 Acq: 10 May 2023 15:20

Tgt Ion: 63 Resp: 99721
 Ion Ratio Lower Upper
 63 100
 65 384.8 24.6 37.0#





#49

1,4-Dioxane

Concen: 2.815 ug/l

RT: 9.301 min Scan# 1227

Delta R.T. -0.006 min

Lab File: VY013688.D

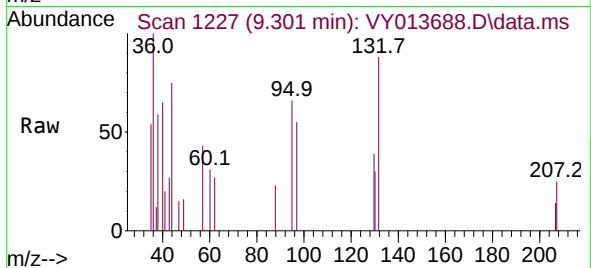
Acq: 10 May 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-44.5-050923



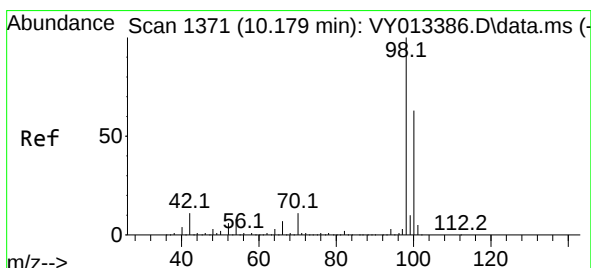
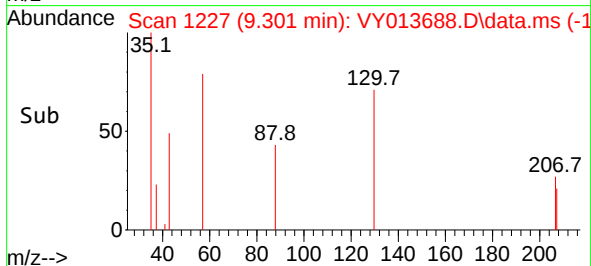
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 108.5 16.8 25.2#

58 0.0 54.3 81.5#



#50

Toluene-d8

Concen: 54.221 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY013688.D

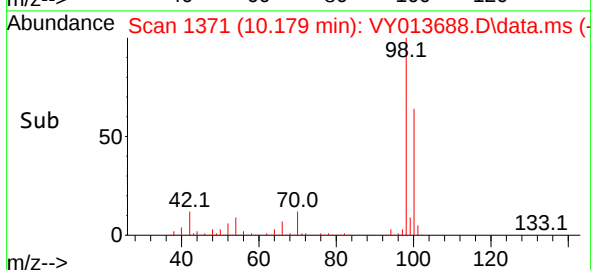
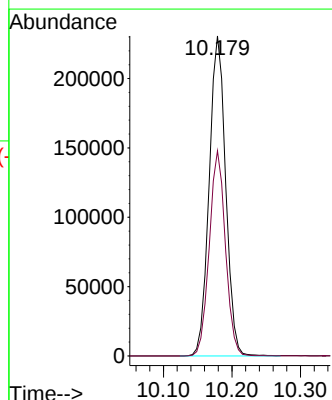
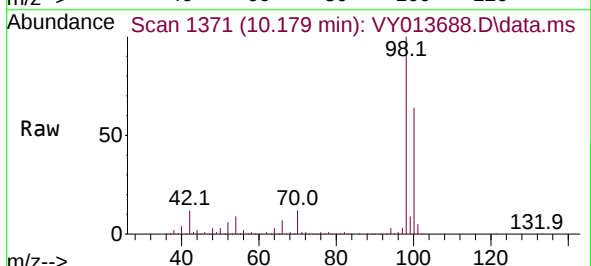
Acq: 10 May 2023 15:20

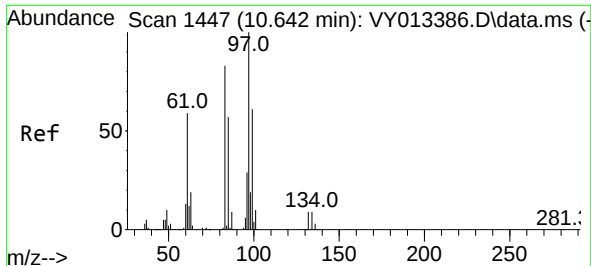
Tgt Ion: 98 Resp: 387002

Ion Ratio Lower Upper

98 100

100 62.6 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 3.602 ug/l

RT: 10.642 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VY013688.D

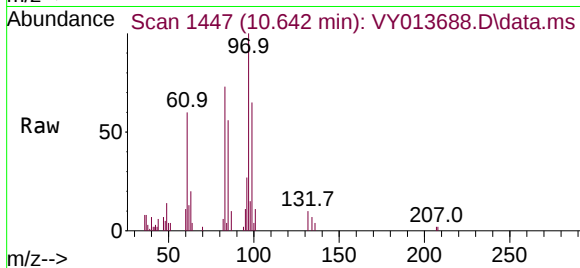
Acq: 10 May 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-44.5-050923



Tgt Ion: 97 Resp: 6999

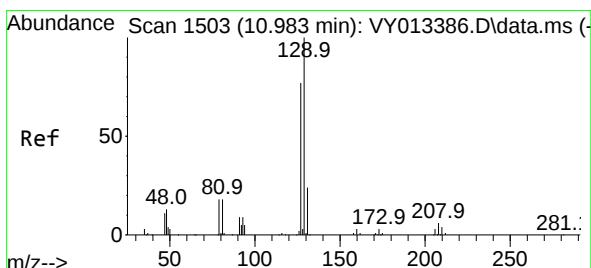
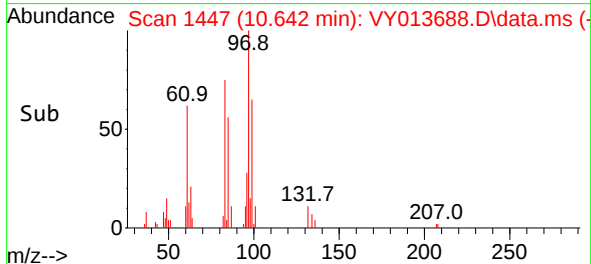
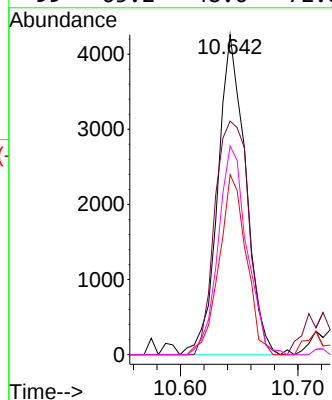
Ion Ratio Lower Upper

97 100

83 73.0 66.4 99.6

85 56.2 45.6 68.4

99 65.2 48.6 72.8



#60

Dibromochloromethane

Concen: 13.389 ug/l

RT: 10.715 min Scan# 1459

Delta R.T. -0.268 min

Lab File: VY013688.D

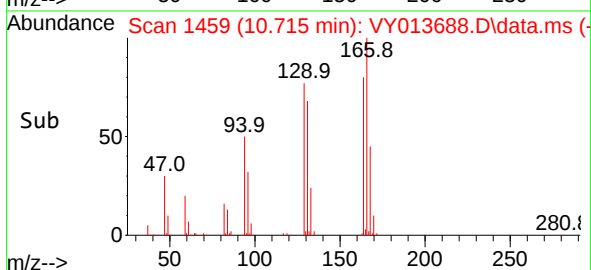
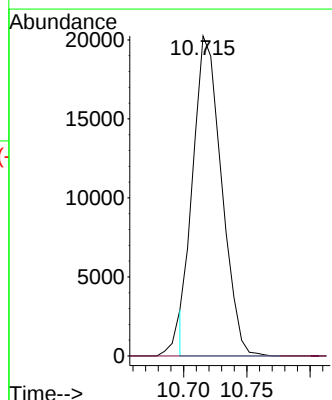
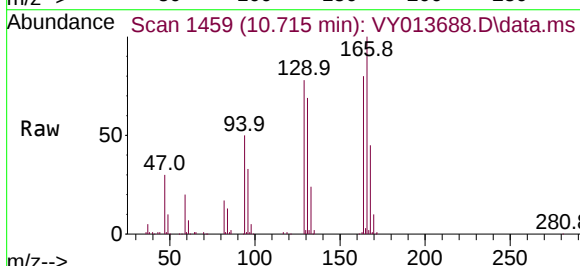
Acq: 10 May 2023 15:20

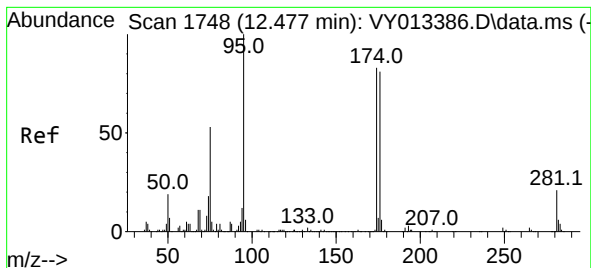
Tgt Ion: 129 Resp: 31594

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#

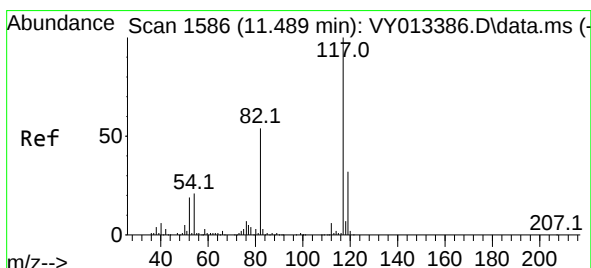
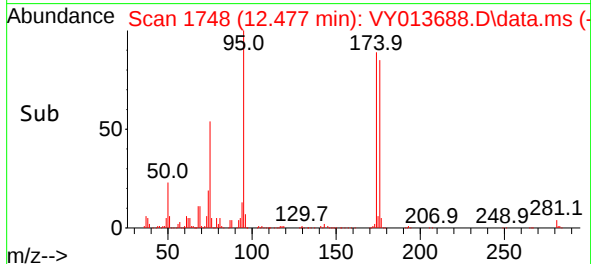
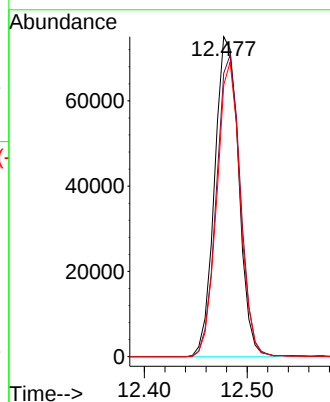
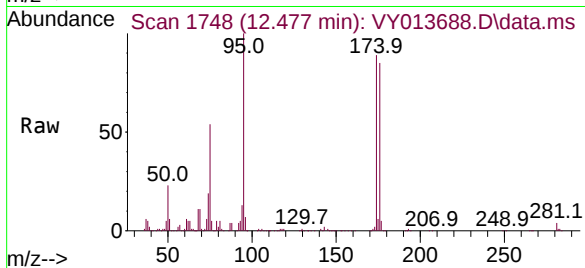




#62
4-Bromofluorobenzene
Concen: 50.679 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

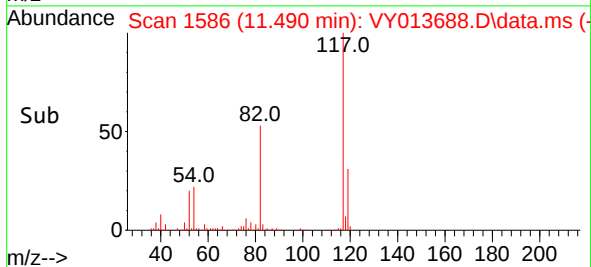
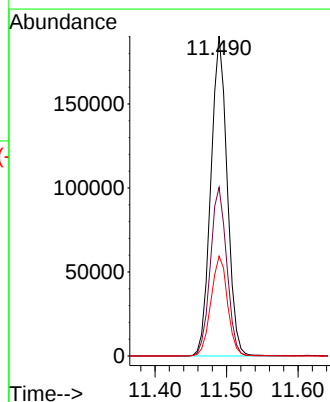
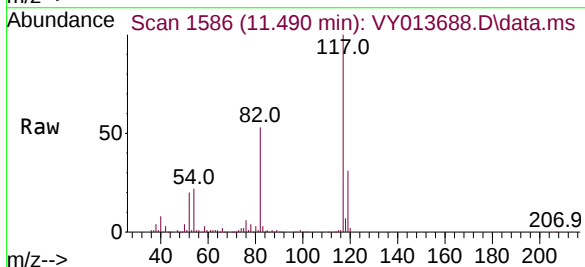
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

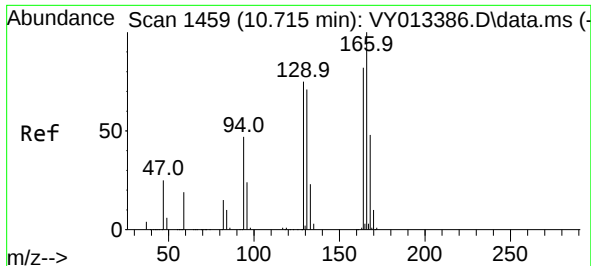
Tgt Ion: 95 Resp: 121947
Ion Ratio Lower Upper
95 100
174 93.5 0.0 182.0
176 89.3 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 117 Resp: 301696
Ion Ratio Lower Upper
117 100
82 52.7 43.0 64.6
119 31.2 25.5 38.3

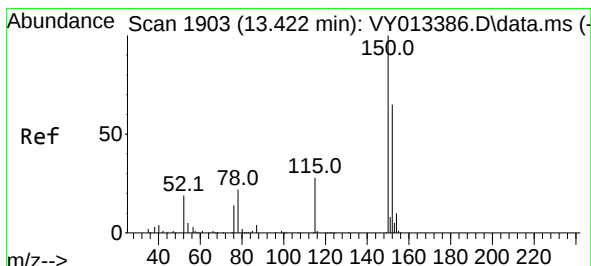
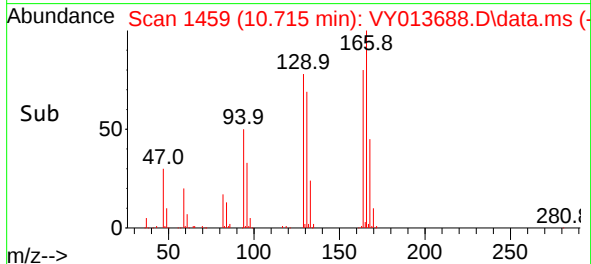
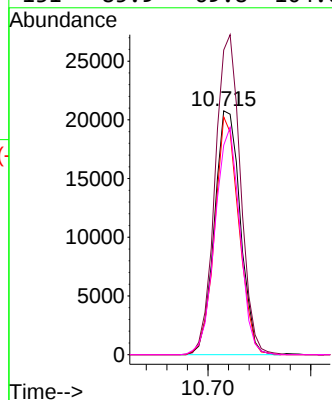
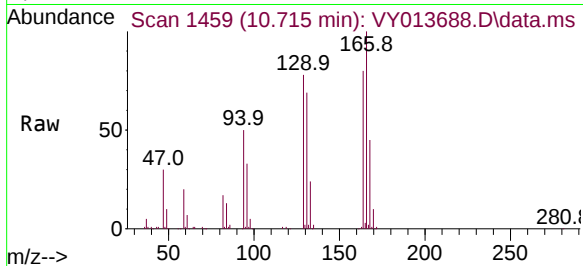




#64
Tetrachloroethene
Concen: 15.763 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

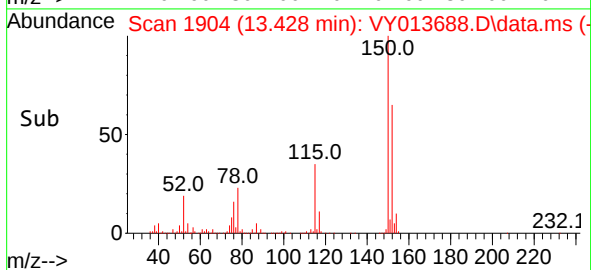
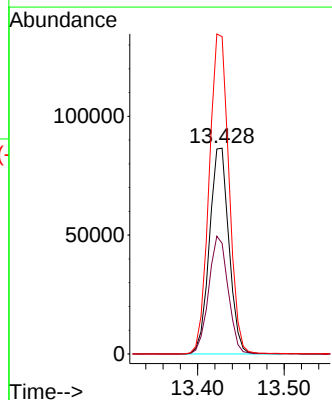
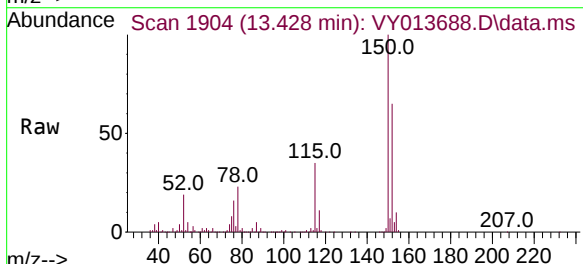
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

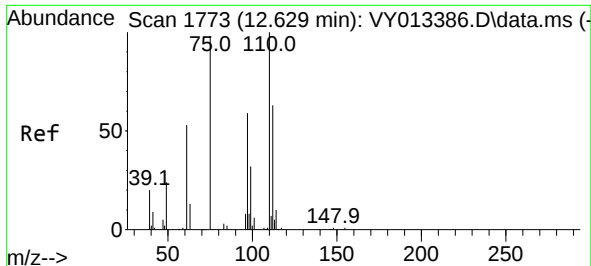
Tgt Ion:164	Resp:	36161
Ion	Ratio	Lower Upper
164	100	
166	124.9	97.5 146.3
129	97.5	72.6 109.0
131	85.9	69.8 104.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion:152	Resp:	135282
Ion	Ratio	Lower Upper
152	100	
115	57.0	28.1 84.2
150	158.0	0.0 352.0

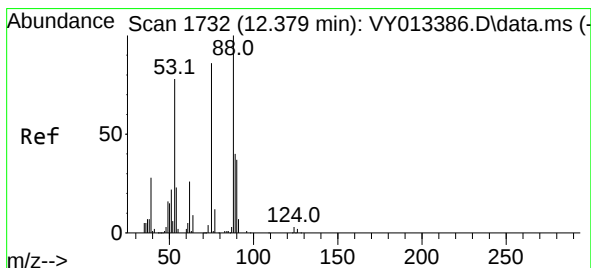
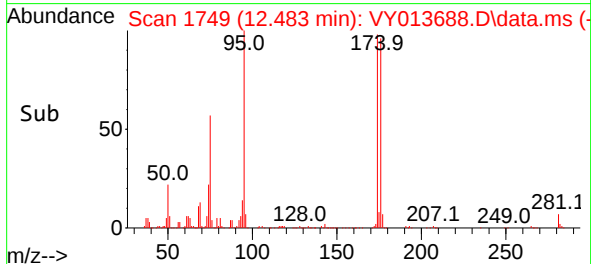
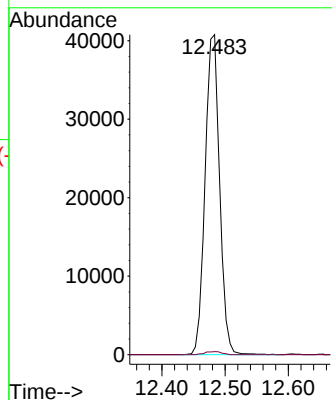
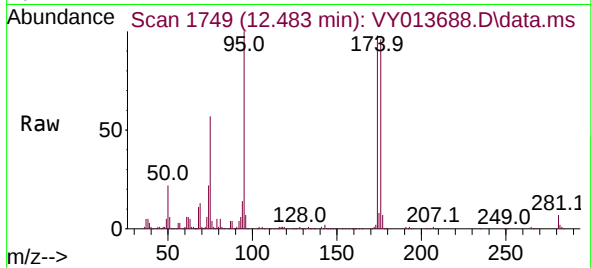




#76
1,2,3-Trichloropropane
Concen: 35.655 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-44.5-050923

Tgt Ion: 75 Resp: 65050
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.934 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY013688.D
Acq: 10 May 2023 15:20

Tgt Ion: 75 Resp: 65050
Ion Ratio Lower Upper
75 100
53 0.2 73.2 109.8#
89 0.1 38.0 57.0#

