

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051023\
 Data File : VY013694.D
 Acq On : 10 May 2023 17:40
 Operator : KP/MD
 Sample : 02719-04
 Misc : 6.25g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-04_10-12_20230509

Quant Time: May 11 03:31:00 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)

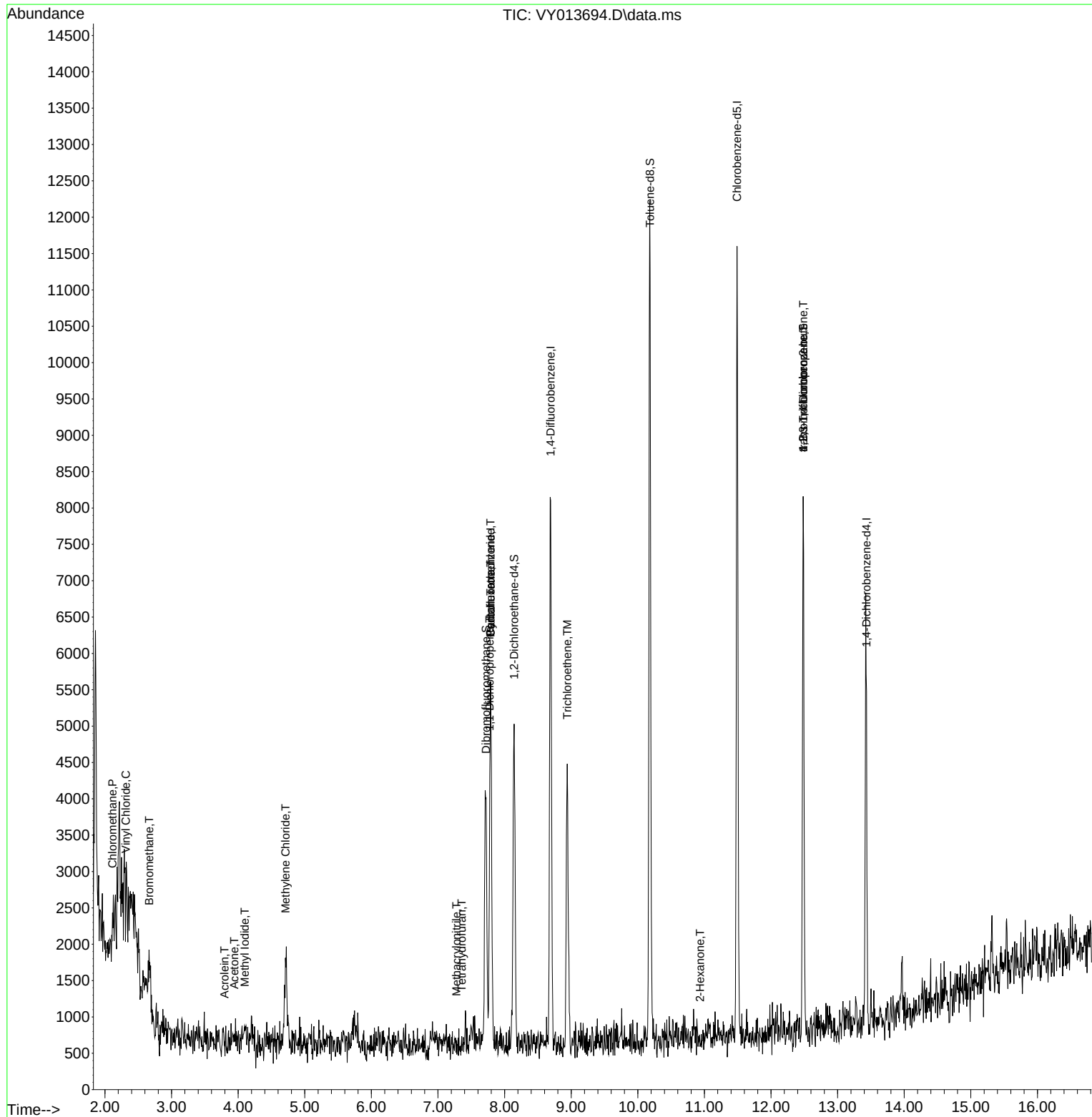
Internal Standards						
1) Pentafluorobenzene	7.789	168	4147	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	6361	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	6043	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	1850	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	3567	78.464	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 156.920%			
35) Dibromofluoromethane	7.722	113	2628	65.687	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 131.380%			
50) Toluene-d8	10.185	98	8292	58.261	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 116.520%			
62) 4-Bromofluorobenzene	12.483	95	2010	41.892	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.780%			
Target Compounds					Qvalue	
3) Chloromethane	2.113	50	393	7.437	ug/l #	42
4) Vinyl Chloride	2.314	62	71	1.349	ug/l #	43
5) Bromomethane	2.662	94	237	5.652	ug/l	84
10) Methyl Iodide	4.101	142	334	5.948	ug/l #	69
13) Acrolein	3.796	56	42	1.783	ug/l #	16
16) Acetone	3.942	43	86	4.804	ug/l #	43
20) Methylene Chloride	4.710	84	740	6.090	ug/l #	80
29) Tetrahydrofuran	7.356	42	41	2.901	ug/l #	32
31) Cyclohexane	7.789	56	108	1.327	ug/l #	14
36) 1,1-Dichloropropene	7.777	75	380	5.723	ug/l #	40
38) Carbon Tetrachloride	7.789	117	430	6.179	ug/l #	11
41) Methacrylonitrile	7.277	41	116	4.982	ug/l #	21
44) Trichloroethene	8.941	130	1596	32.079	ug/l	90
59) 2-Hexanone	10.935	43	42	1.229	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	922	36.955	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	922	75.593	ug/l #	12

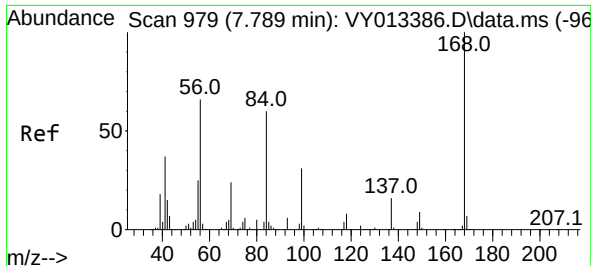
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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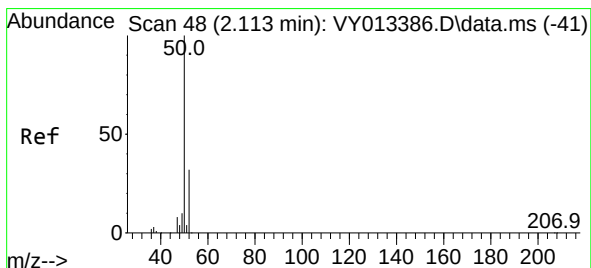
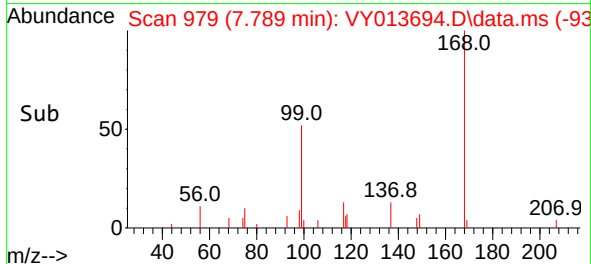
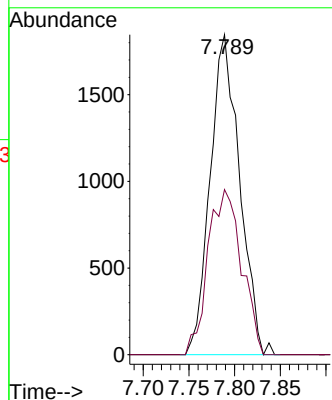
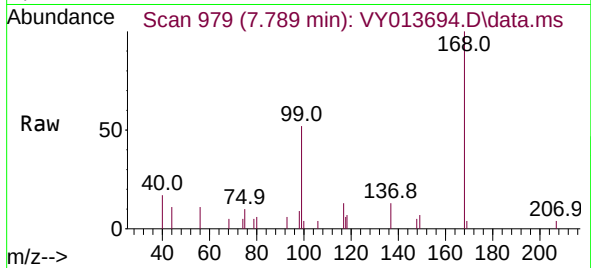




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

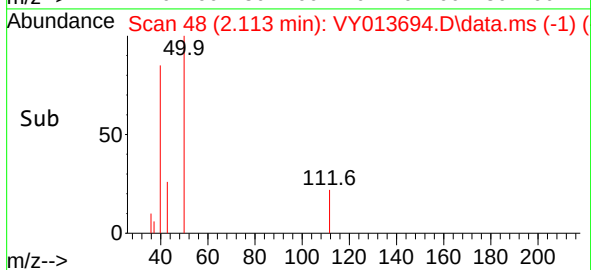
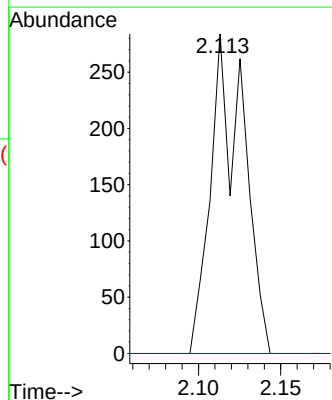
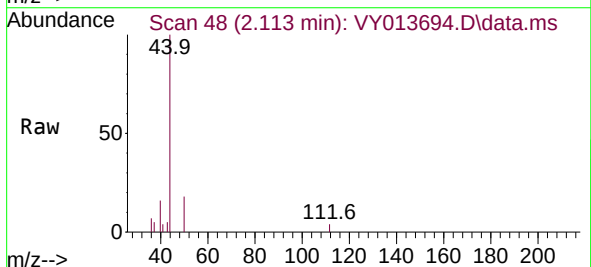
Instrument :
MSVOA_Y
ClientSampleId :
SB-04_10-12_20230509

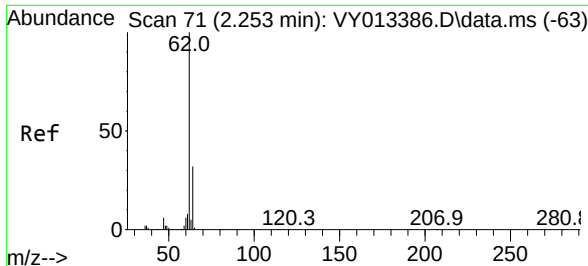
Tgt Ion:168 Resp: 4147
Ion Ratio Lower Upper
168 100
99 51.6 41.8 62.6



#3
Chloromethane
Concen: 7.437 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

Tgt Ion: 50 Resp: 393
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

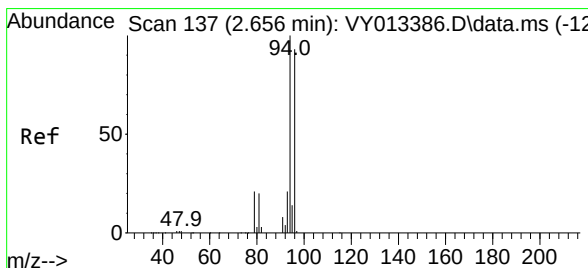
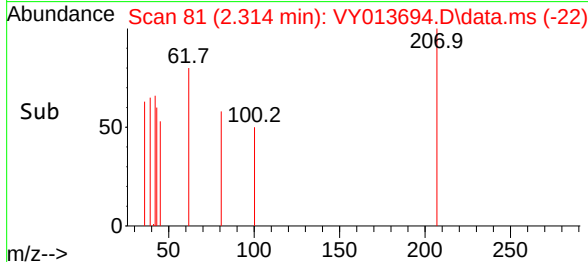
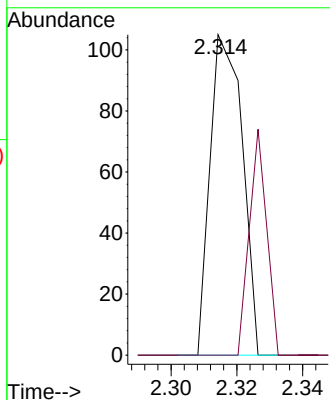
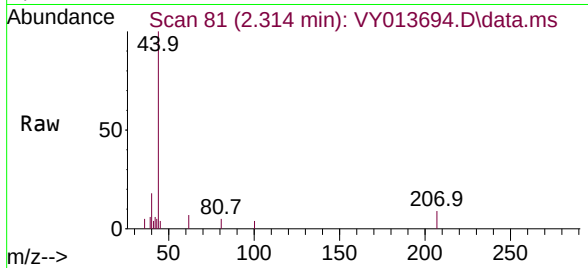




#4
 Vinyl Chloride
 Concen: 1.349 ug/l
 RT: 2.314 min Scan# 81
 Delta R.T. 0.061 min
 Lab File: VY013694.D
 Acq: 10 May 2023 17:40

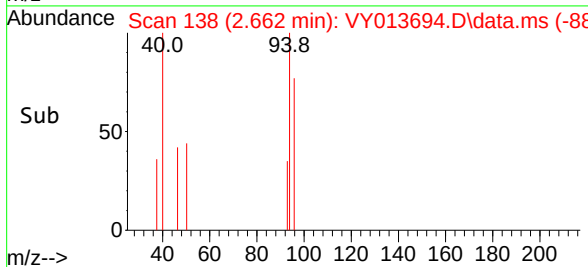
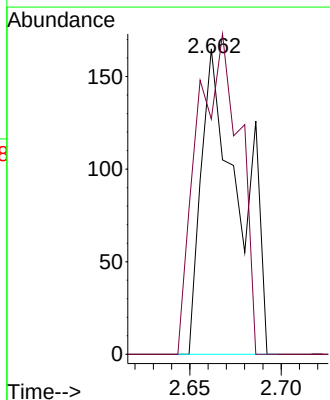
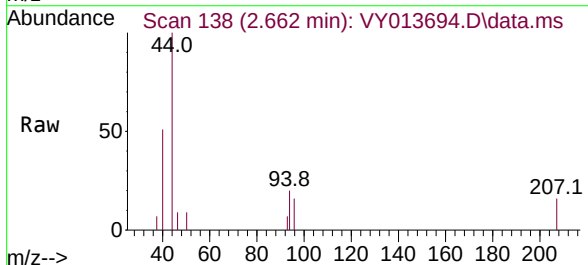
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-04_10-12_20230509

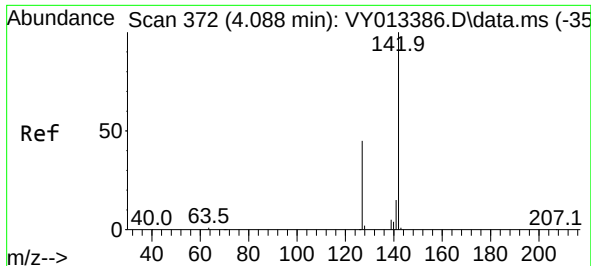
Tgt Ion: 62 Resp: 71
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 5.652 ug/l
 RT: 2.662 min Scan# 138
 Delta R.T. 0.006 min
 Lab File: VY013694.D
 Acq: 10 May 2023 17:40

Tgt Ion: 94 Resp: 237
 Ion Ratio Lower Upper
 94 100
 96 77.0 74.2 111.2

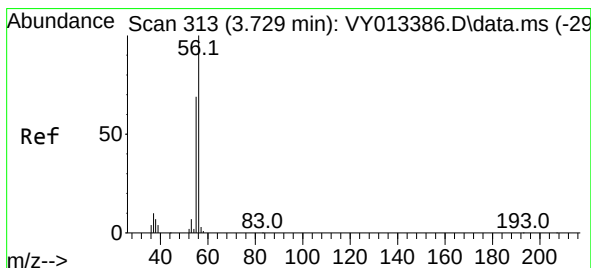
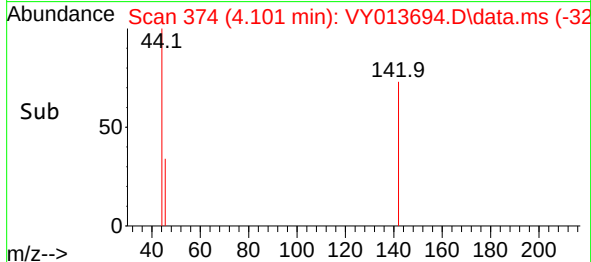
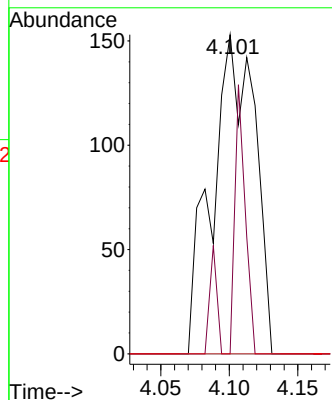
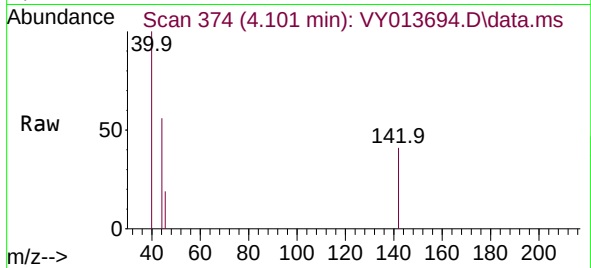




#10
Methyl Iodide
Concen: 5.948 ug/l
RT: 4.101 min Scan# 31
Delta R.T. 0.013 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

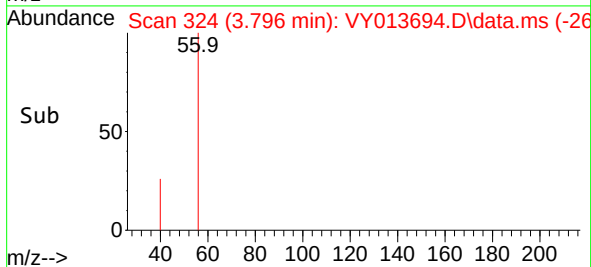
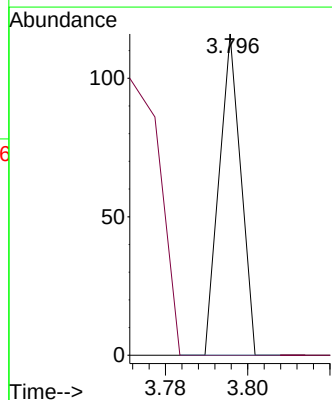
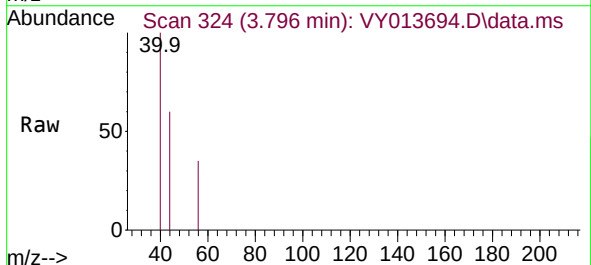
Instrument :
MSVOA_Y
ClientSampleId :
SB-04_10-12_20230509

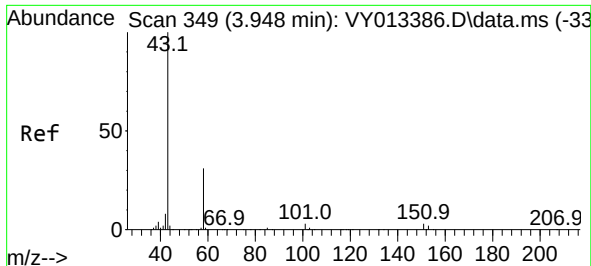
Tgt Ion:142 Resp: 334
Ion Ratio Lower Upper
142 100
127 26.0 36.1 54.1#
141 0.0 11.6 17.4#



#13
Acrolein
Concen: 1.783 ug/l
RT: 3.796 min Scan# 324
Delta R.T. 0.067 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#

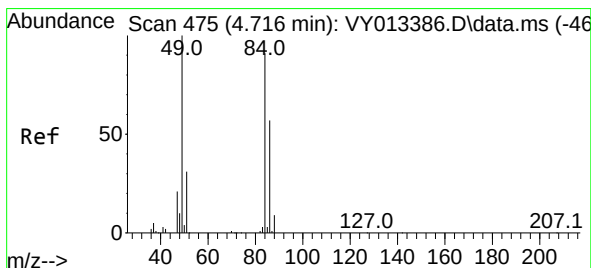
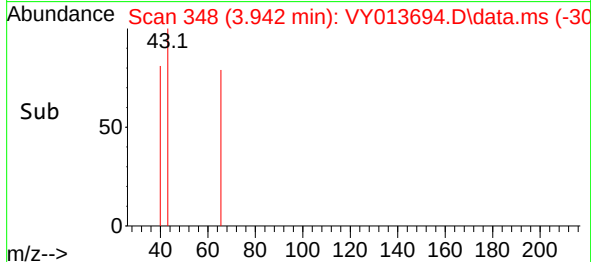
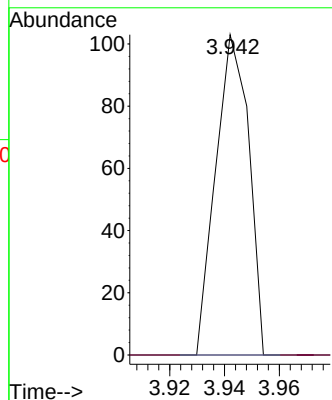
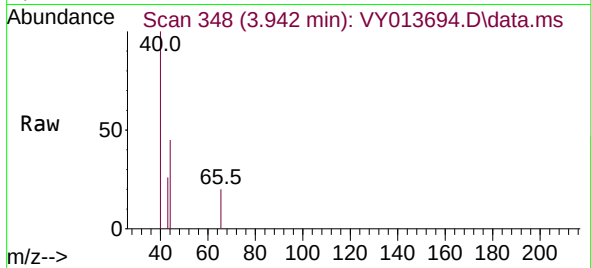




#16
Acetone
Concen: 4.804 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

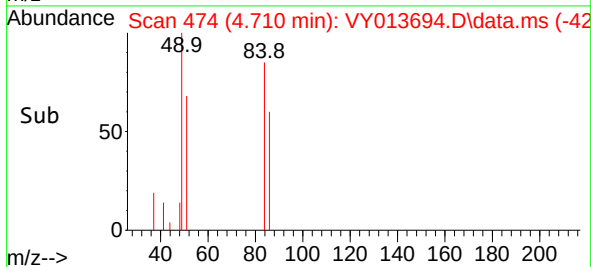
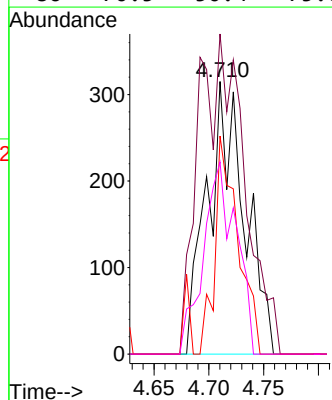
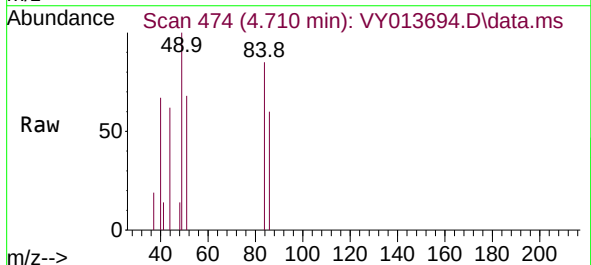
Instrument :
MSVOA_Y
ClientSampleId :
SB-04_10-12_20230509

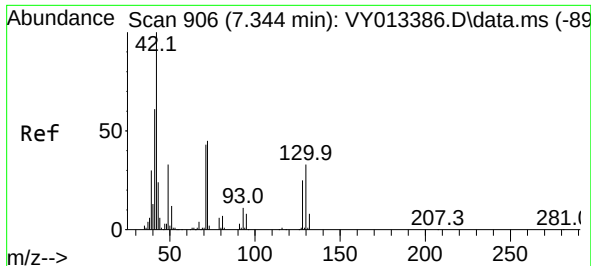
Tgt Ion: 43 Resp: 86
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#



#20
Methylene Chloride
Concen: 6.090 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

Tgt Ion: 84 Resp: 740
Ion Ratio Lower Upper
84 100
49 117.5 88.0 132.0
51 80.0 27.4 41.0#
86 70.5 50.4 75.6





#29

Tetrahydrofuran

Concen: 2.901 ug/l

RT: 7.356 min Scan# 906

Delta R.T. 0.012 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

Instrument :

MSVOA_Y

ClientSampleId :

SB-04_10-12_20230509

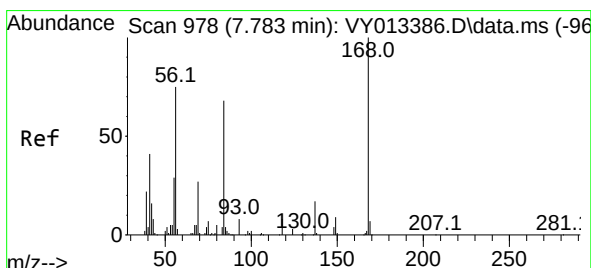
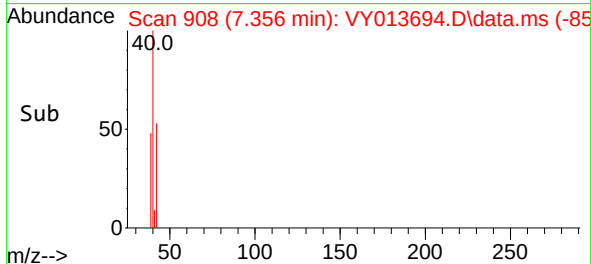
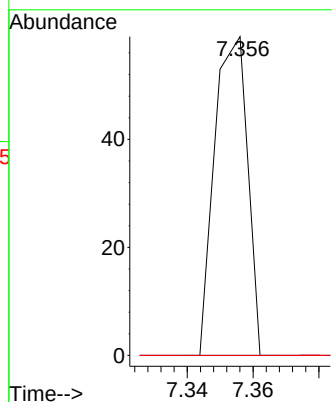
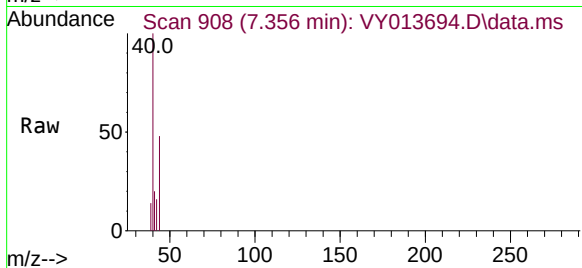
Tgt Ion: 42 Resp: 41

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.3 51.5#



#31

Cyclohexane

Concen: 1.327 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

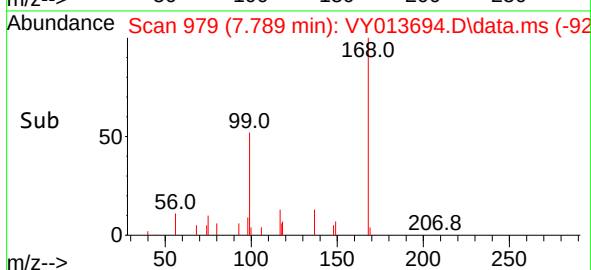
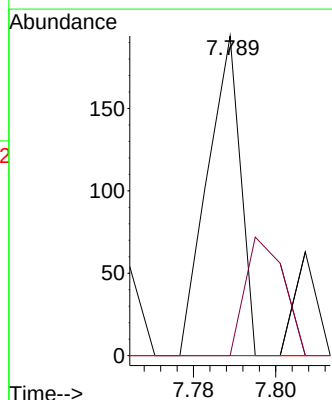
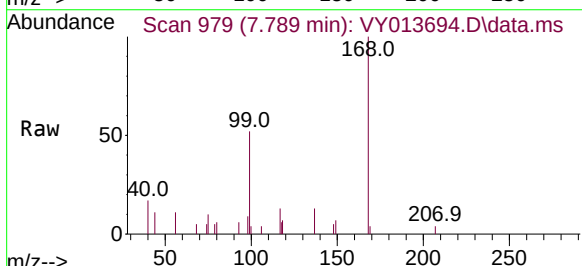
Tgt Ion: 56 Resp: 108

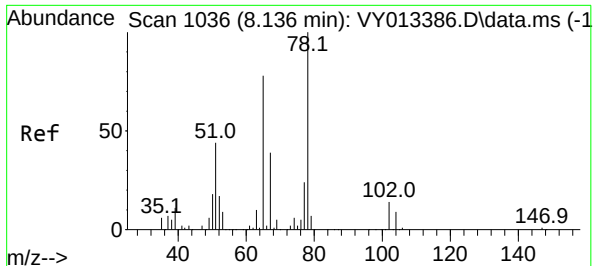
Ion Ratio Lower Upper

56 100

69 0.0 29.2 43.8#

84 0.0 73.0 109.6#





#33

1,2-Dichloroethane-d4

Concen: 78.464 ug/l

RT: 8.142 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

Instrument :

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ClientSampleId :

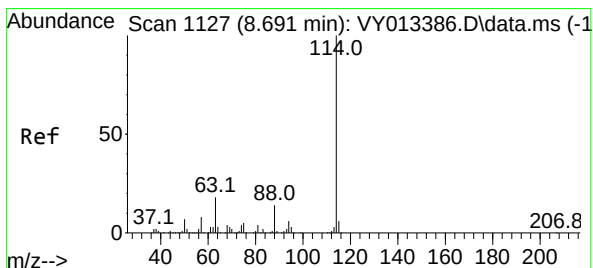
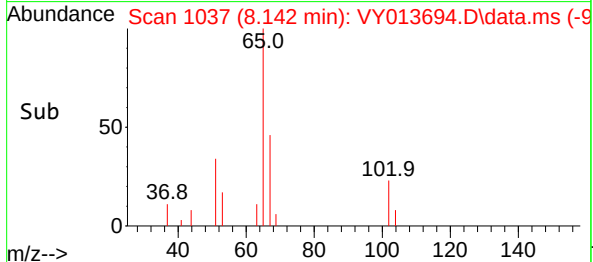
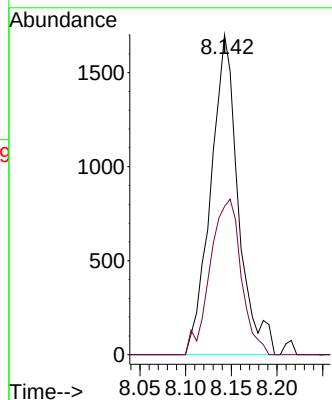
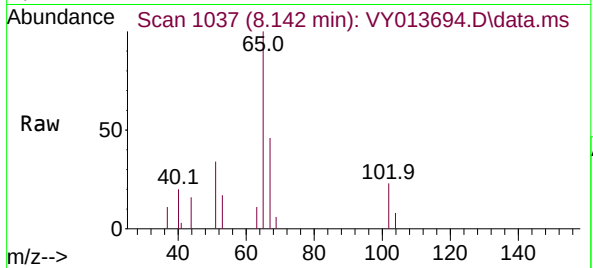
SB-04_10-12_20230509

Tgt Ion: 65 Resp: 3567

Ion Ratio Lower Upper

65 100

67 54.7 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: VY013694.D

Acq: 10 May 2023 17:40

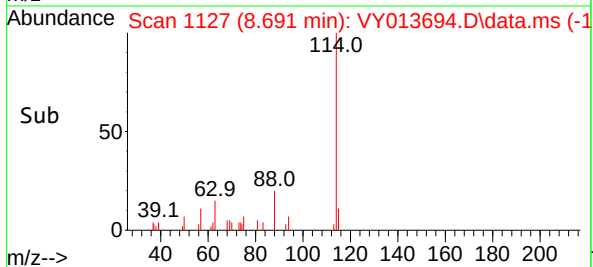
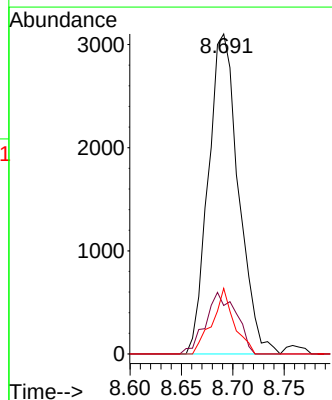
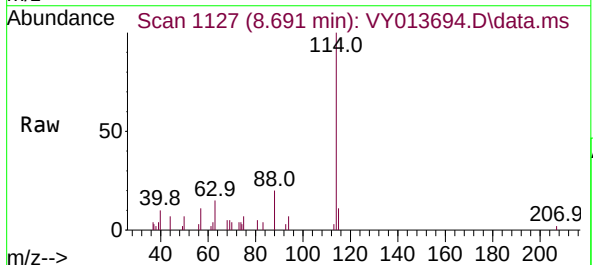
Tgt Ion: 114 Resp: 6361

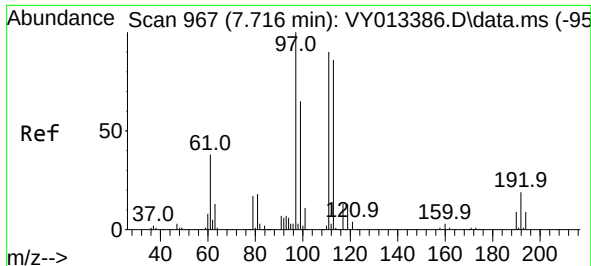
Ion Ratio Lower Upper

114 100

63 15.2 0.0 36.6

88 20.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 65.687 ug/l

RT: 7.722 min Scan# 9

Delta R.T. 0.006 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

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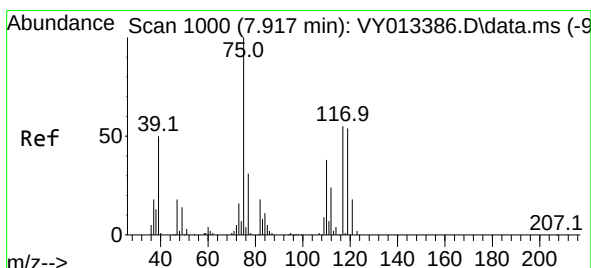
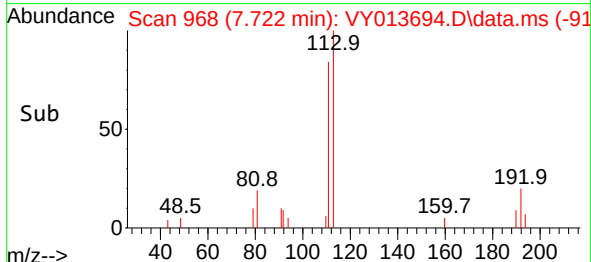
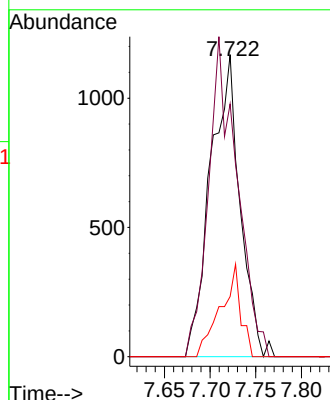
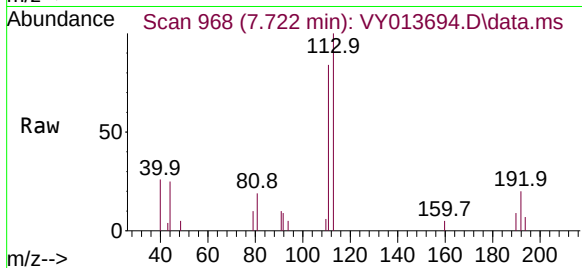
Tgt Ion:113 Resp: 2628

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.2

192 20.9 16.7 25.1



#36

1,1-Dichloropropene

Concen: 5.723 ug/l

RT: 7.777 min Scan# 977

Delta R.T. -0.140 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

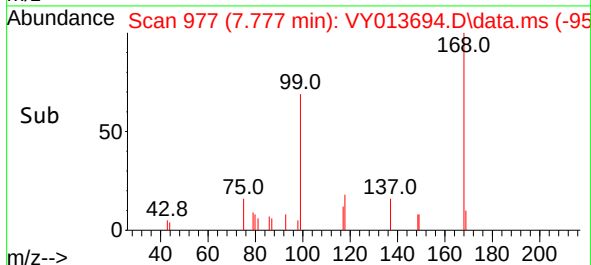
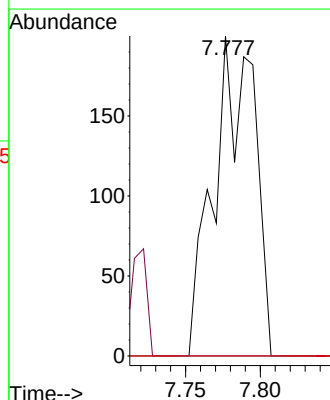
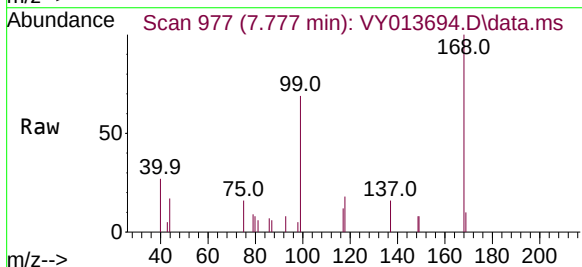
Tgt Ion: 75 Resp: 380

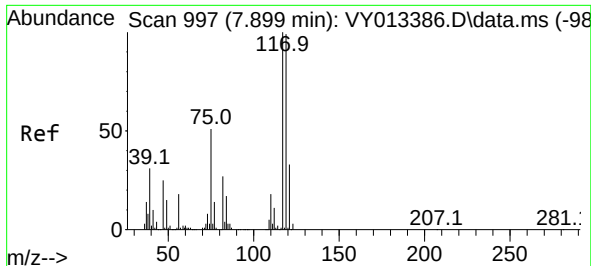
Ion Ratio Lower Upper

75 100

110 0.0 18.7 56.1#

77 0.0 24.6 37.0#

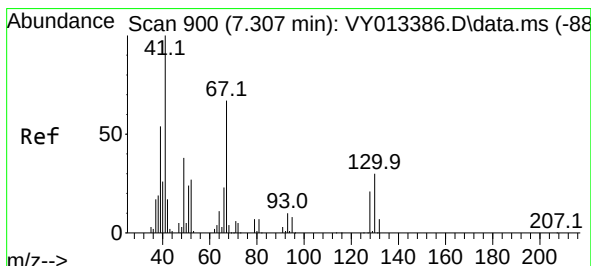
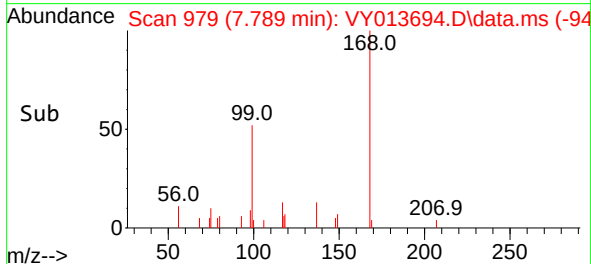
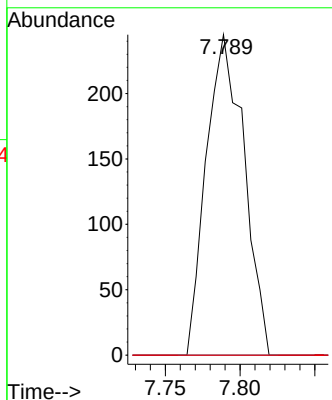
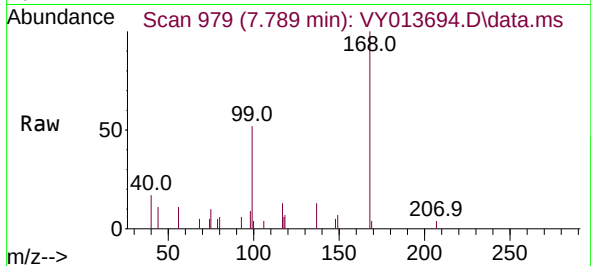




#38
Carbon Tetrachloride
Concen: 6.179 ug/l
RT: 7.789 min Scan# 911
Delta R.T. -0.110 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

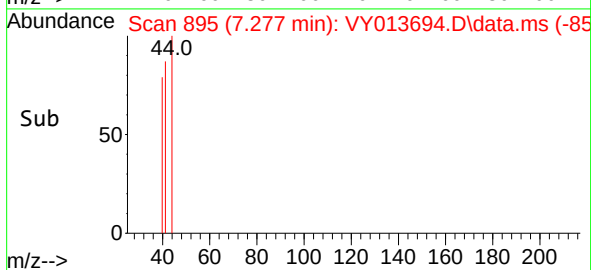
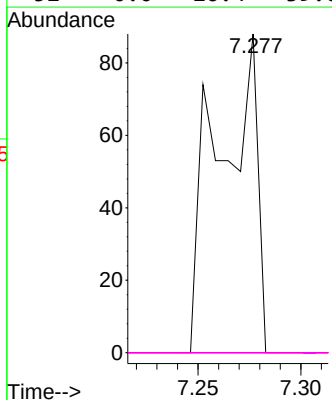
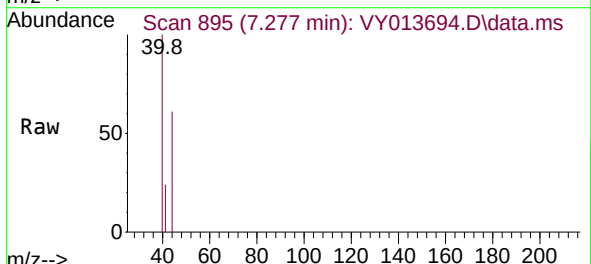
Instrument :
MSVOA_Y
ClientSampleId :
SB-04_10-12_20230509

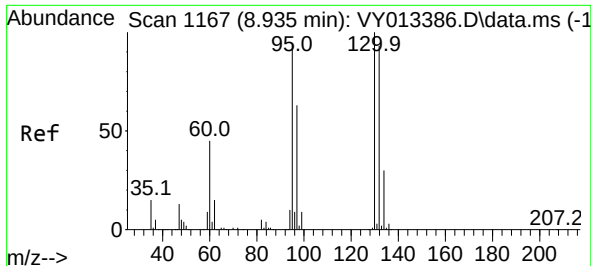
Tgt Ion: 117 Resp: 430
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.6#
121 0.0 26.6 40.0#



#41
Methacrylonitrile
Concen: 4.982 ug/l
RT: 7.277 min Scan# 895
Delta R.T. -0.030 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

Tgt Ion: 41 Resp: 116
Ion Ratio Lower Upper
41 100
39 0.0 44.2 66.4#
67 0.0 62.9 94.3#
52 0.0 26.4 39.6#

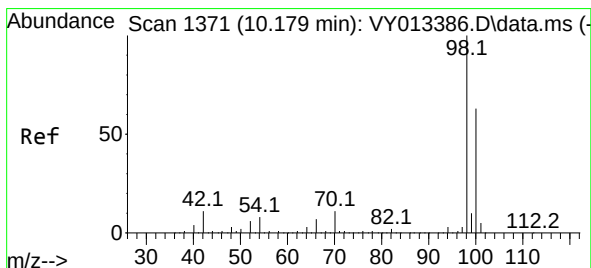
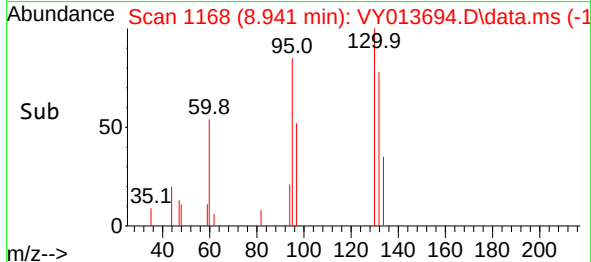
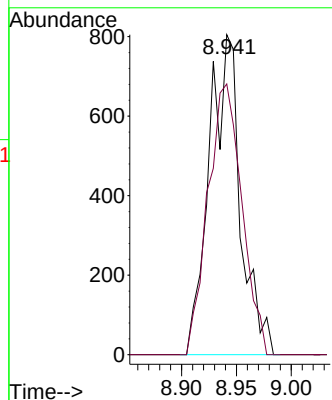
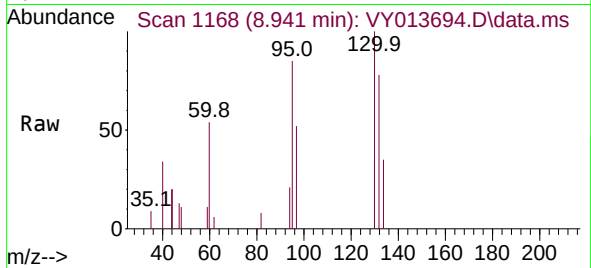




#44
 Trichloroethene
 Concen: 32.079 ug/l
 RT: 8.941 min Scan# 1168
 Delta R.T. 0.006 min
 Lab File: VY013694.D
 Acq: 10 May 2023 17:40

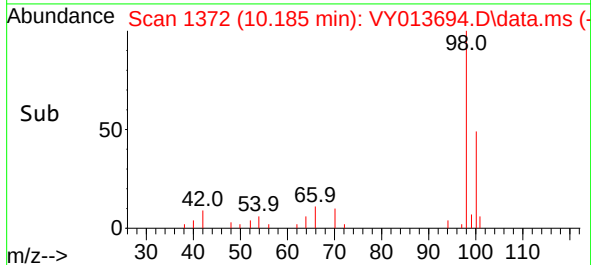
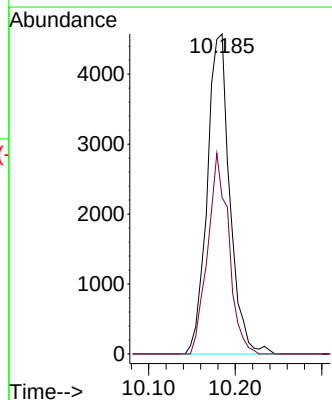
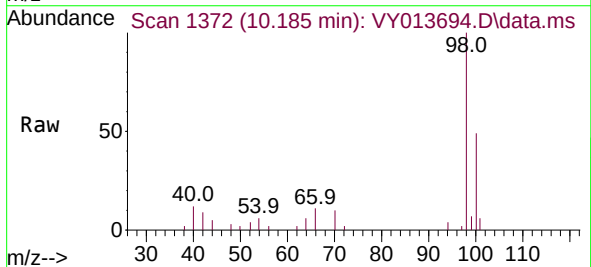
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-04_10-12_20230509

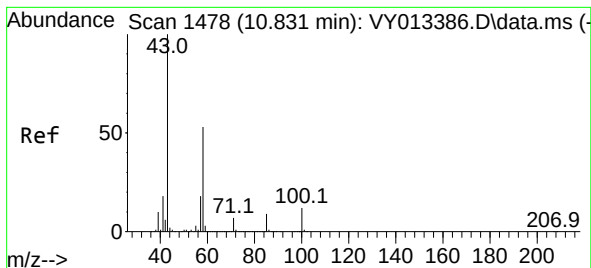
Tgt Ion:130 Resp: 1596
 Ion Ratio Lower Upper
 130 100
 95 84.6 0.0 188.8



#50
 Toluene-d8
 Concen: 58.261 ug/l
 RT: 10.185 min Scan# 1372
 Delta R.T. 0.006 min
 Lab File: VY013694.D
 Acq: 10 May 2023 17:40

Tgt Ion: 98 Resp: 8292
 Ion Ratio Lower Upper
 98 100
 100 58.5 50.5 75.7

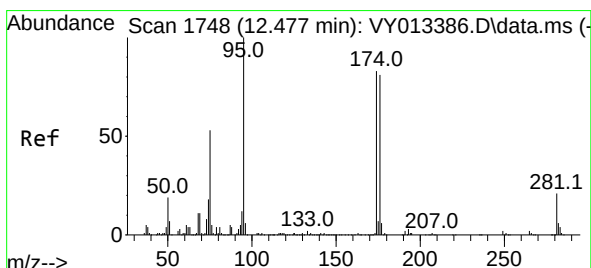
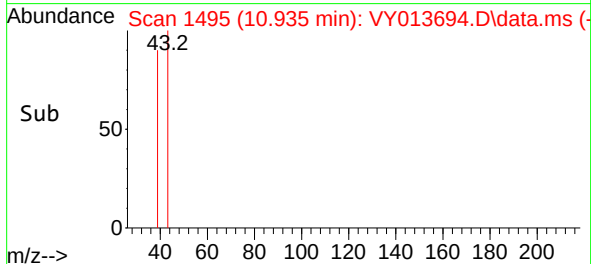
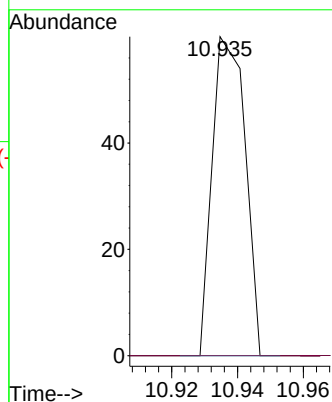
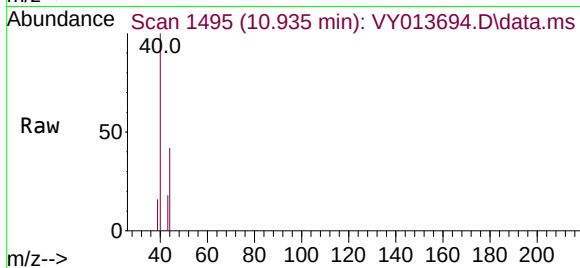




#59
2-Hexanone
Concen: 1.229 ug/l
RT: 10.935 min Scan# 1478
Delta R.T. 0.104 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

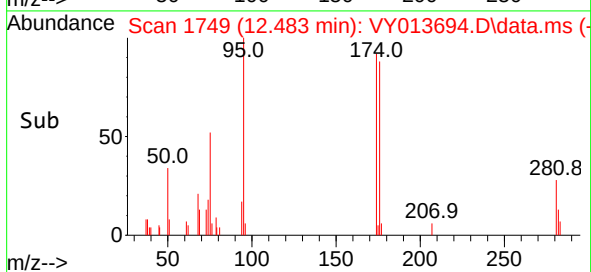
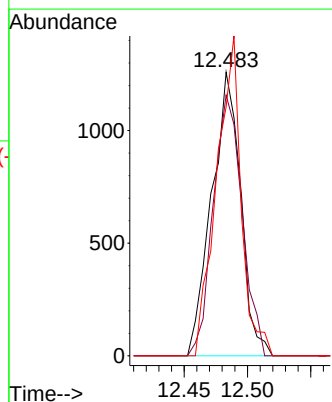
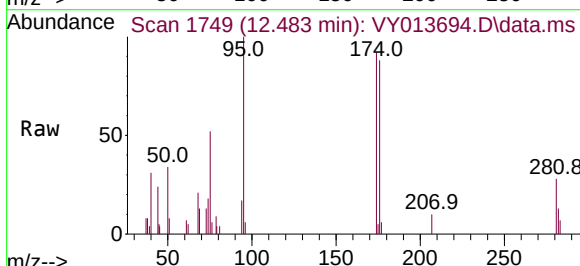
Instrument :
MSVOA_Y
ClientSampleId :
SB-04_10-12_20230509

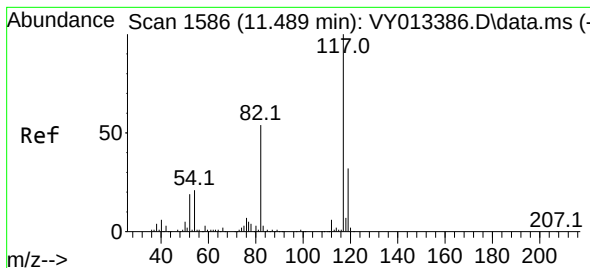
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 41.892 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY013694.D
Acq: 10 May 2023 17:40

Tgt Ion: 95 Resp: 2010
Ion Ratio Lower Upper
95 100
174 91.3 0.0 182.0
176 95.2 0.0 175.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

Instrument :

MSVOA_Y

ClientSampleId :

SB-04_10-12_20230509

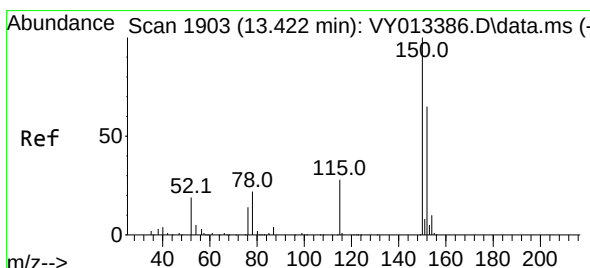
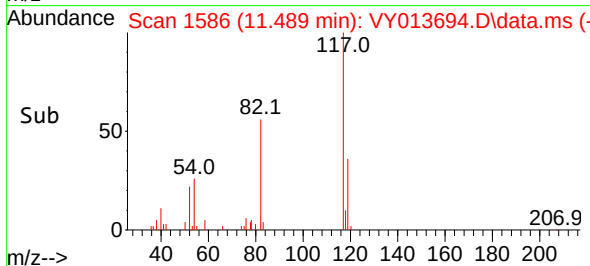
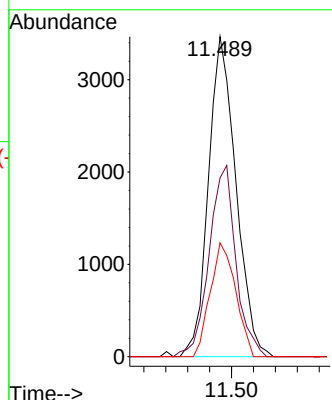
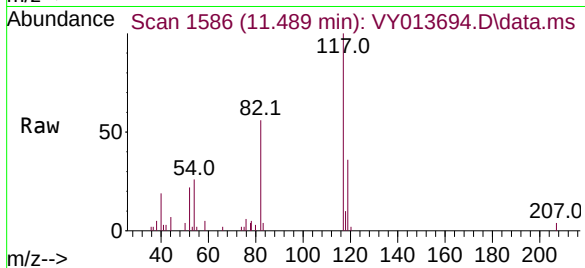
Tgt Ion:117 Resp: 6043

Ion Ratio Lower Upper

117 100

82 55.8 43.0 64.6

119 35.6 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.012 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

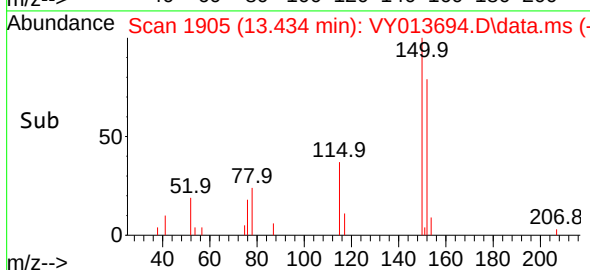
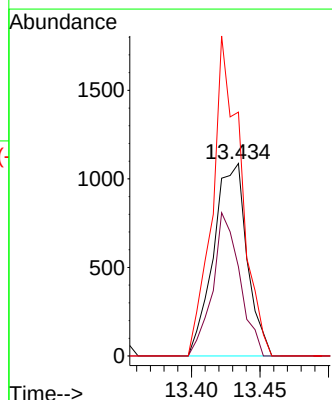
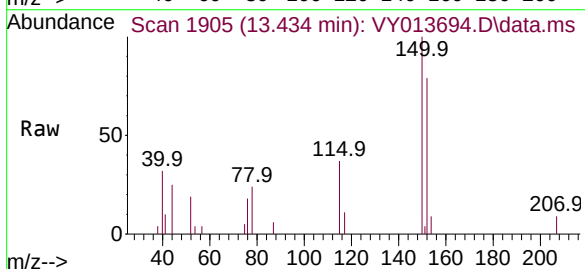
Tgt Ion:152 Resp: 1850

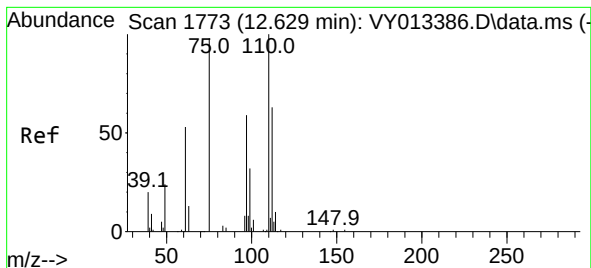
Ion Ratio Lower Upper

152 100

115 60.2 28.1 84.2

150 141.6 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 36.955 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

Instrument :

MSVOA_Y

ClientSampleId :

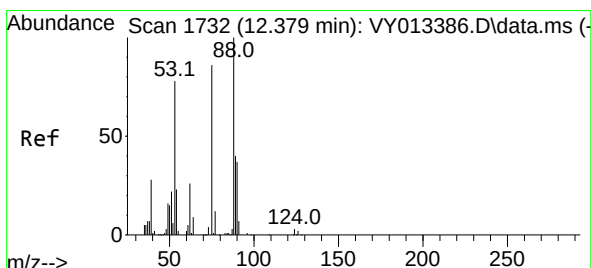
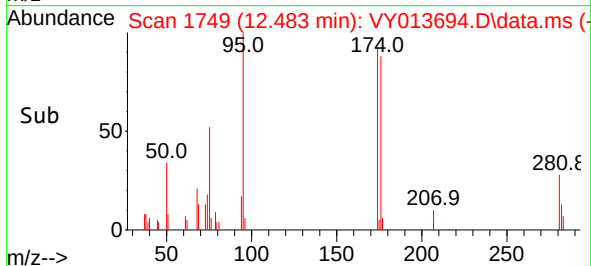
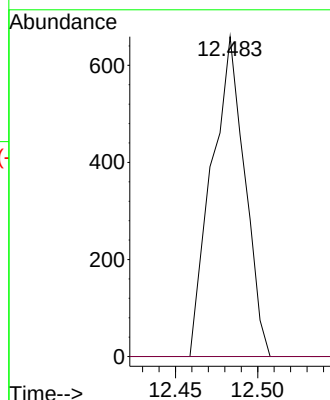
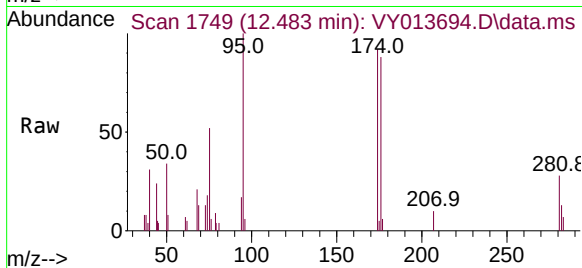
SB-04_10-12_20230509

Tgt Ion: 75 Resp: 922

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 75.593 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY013694.D

Acq: 10 May 2023 17:40

Tgt Ion: 75 Resp: 922

Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

89 0.0 38.0 57.0#

