

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX011320\
 Data File : VX014580.D
 Acq On : 13 Jan 2020 12:38
 Operator : JC/SP
 Sample : L1074-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-TB010820

Quant Time: Jan 14 13:04:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

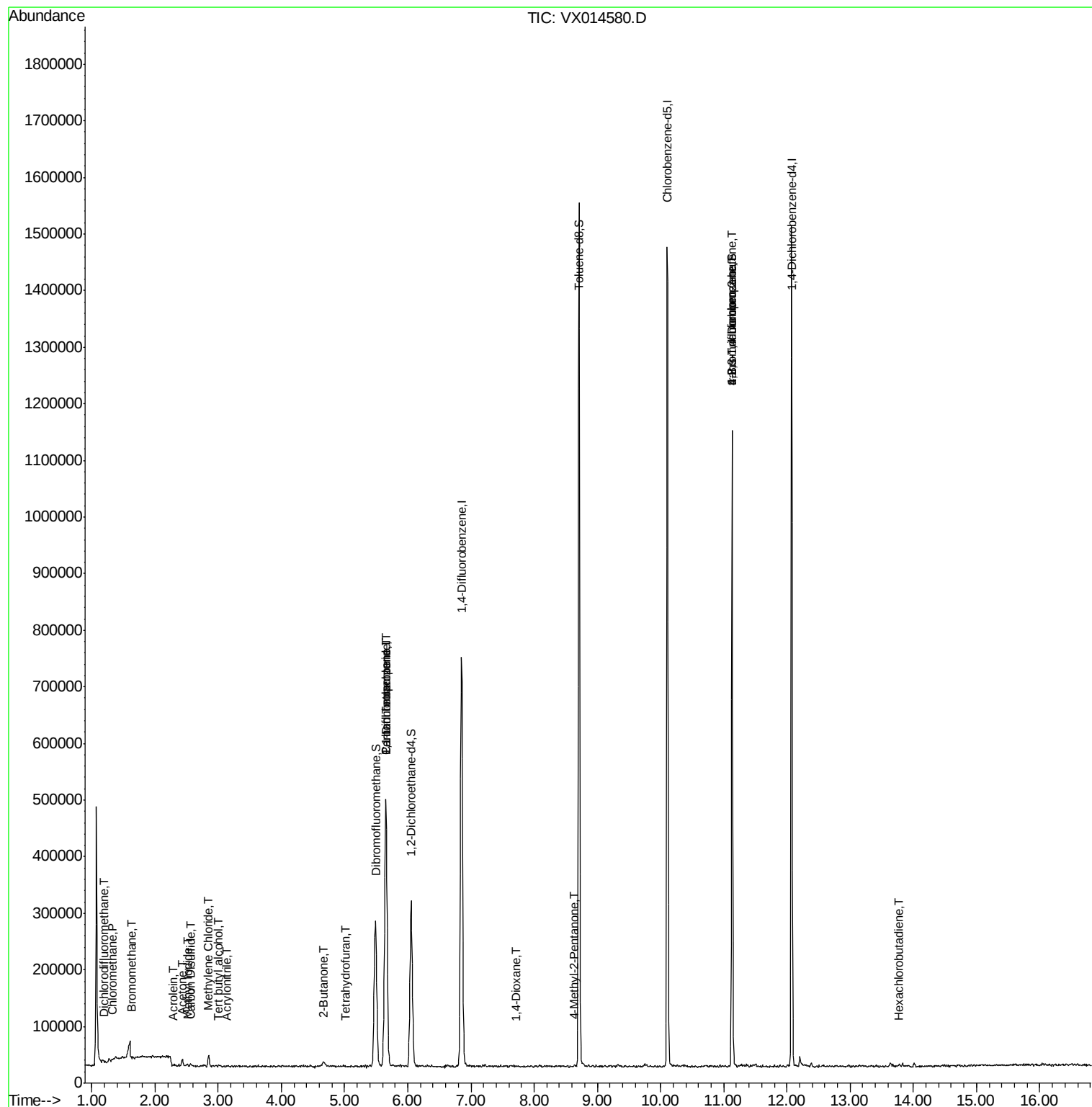
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	489331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	756543	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	678506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	313564	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	271176	49.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.28%	
35) Dibromofluoromethane	5.49	113	223516	48.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	894720	50.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	299659	45.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.86%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	223	0.289	ug/l	93
3) Chloromethane	1.32	50	2278	0.365	ug/l	99
5) Bromomethane	1.64	94	1653	0.359	ug/l	94
6) Chloroethane	1.72	64	164	Below Cal	#	50
10) Methyl Iodide	2.52	142	2581	0.449	ug/l #	47
11) Tert butyl alcohol	3.01	59	1914	1.678	ug/l #	60
13) Acrolein	2.29	56	497	0.544	ug/l	92
15) Acrylonitrile	3.14	53	1589	0.577	ug/l #	46
16) Acetone	2.43	43	12687	0.461	ug/l	99
17) Carbon Disulfide	2.56	76	3510	0.260	ug/l #	77
20) Methylene Chloride	2.85	84	9423	1.715	ug/l	98
25) 2-Butanone	4.67	43	6797	1.666	ug/l #	83
29) Tetrahydrofuran	5.00	42	719	0.298	ug/l	95
36) 1,1-Dichloropropene	5.65	75	32888	4.623	ug/l #	51
38) Carbon Tetrachloride	5.65	117	43344	6.620	ug/l #	17
49) 1,4-Dioxane	7.72	88	330	2.605	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	3267	0.429	ug/l #	60
76) 1,2,3-Trichloropropane	11.13	75	149395	23.027	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	149395	60.880	ug/l #	12
88) 1,4-Dichlorobenzene	12.03	146	1389	Below Cal		66
93) 1,2,4-Trichlorobenzene	13.39	180	225	Below Cal		71
94) Hexachlorobutadiene	13.77	225	815	0.292	ug/l	80
96) 1,2,3-Trichlorobenzene	14.01	180	1740	Below Cal	#	86

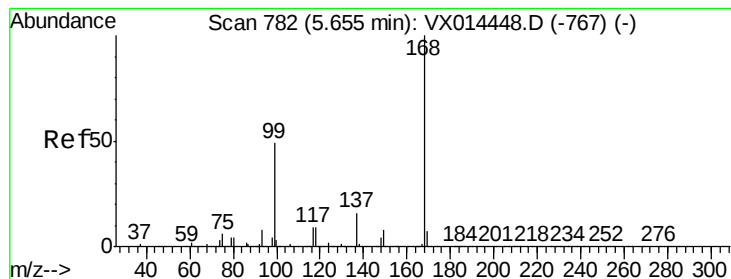
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

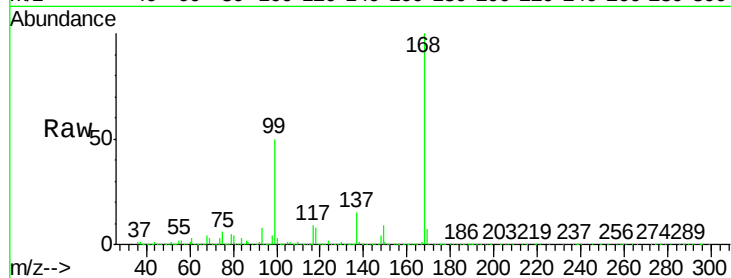
CIY1-TB010820

Tgt Ion:168 Resp: 489331

Ion Ratio Lower Upper

168 100

99 50.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

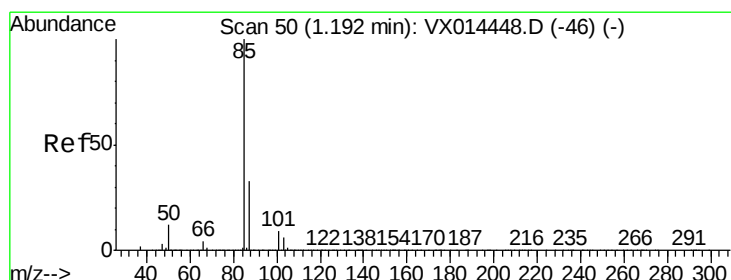
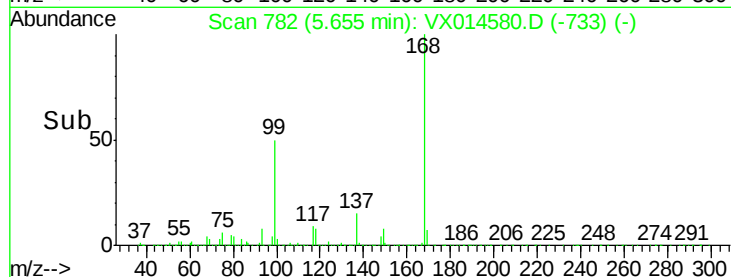
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.289 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014580.D

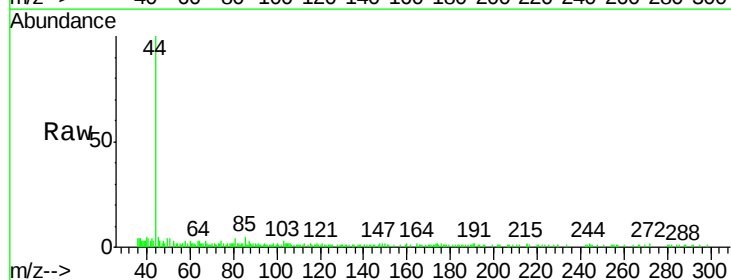
Acq: 13 Jan 2020 12:38

Tgt Ion: 85 Resp: 223

Ion Ratio Lower Upper

85 100

87 36.9 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

500

400

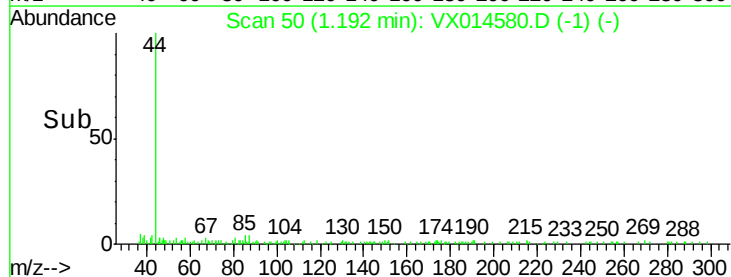
300

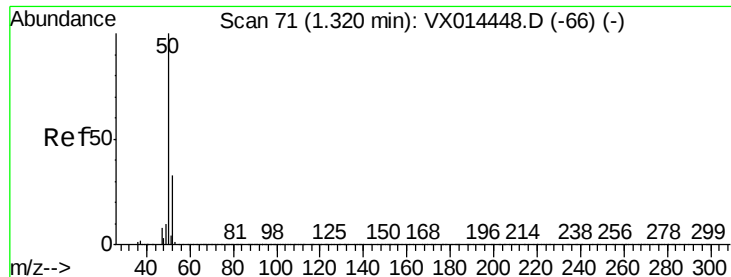
200

100

0

Time-->





#3

Chloromethane

Concen: 0.365 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

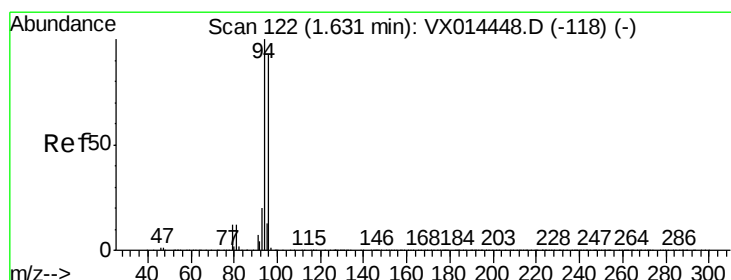
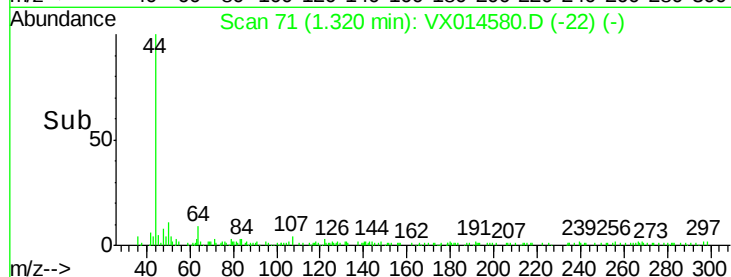
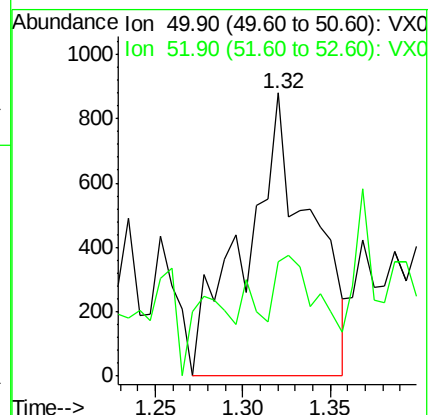
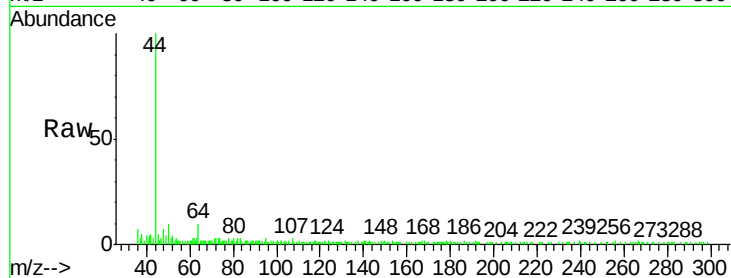
CIY1-TB010820

Tgt Ion: 50 Resp: 2278

Ion Ratio Lower Upper

50 100

52 33.4 26.1 39.1



#5

Bromomethane

Concen: 0.359 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014580.D

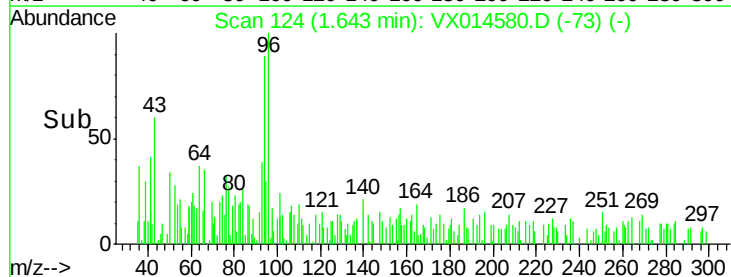
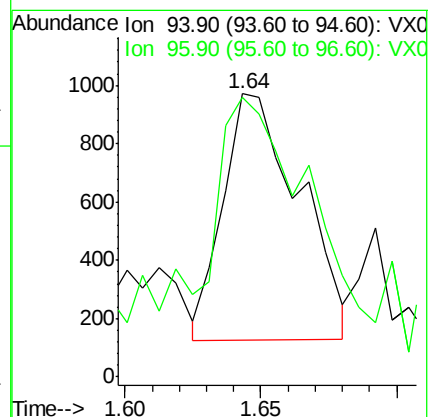
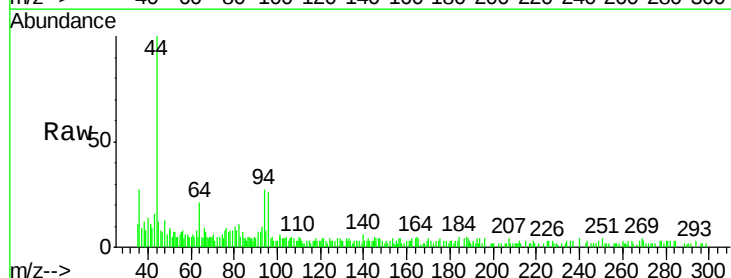
Acq: 13 Jan 2020 12:38

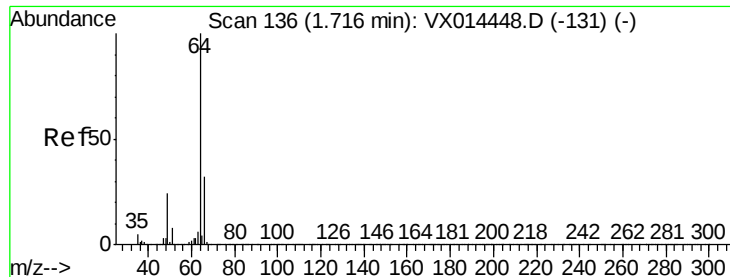
Tgt Ion: 94 Resp: 1653

Ion Ratio Lower Upper

94 100

96 86.9 74.2 111.2





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

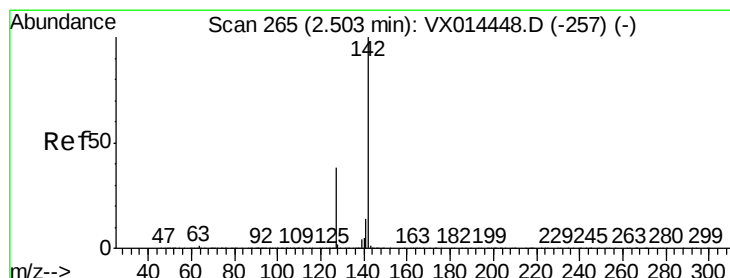
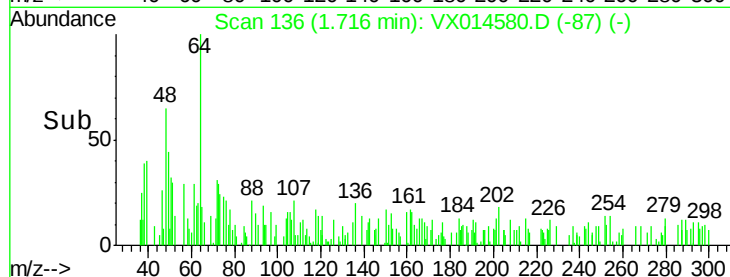
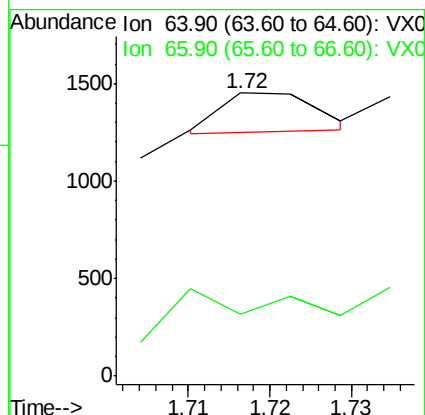
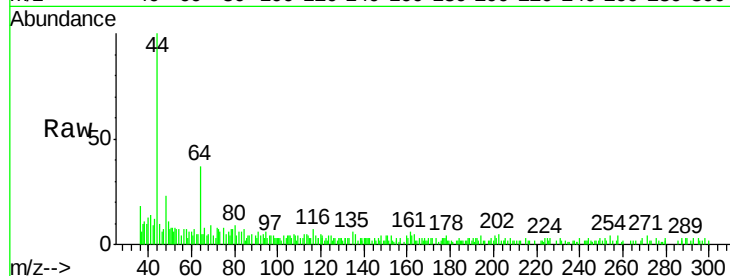
CIY1-TB010820

Tgt Ion: 64 Resp: 164

Ion Ratio Lower Upper

64 100

66 3.7 25.3 37.9#



#10

Methyl Iodide

Concen: 0.449 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

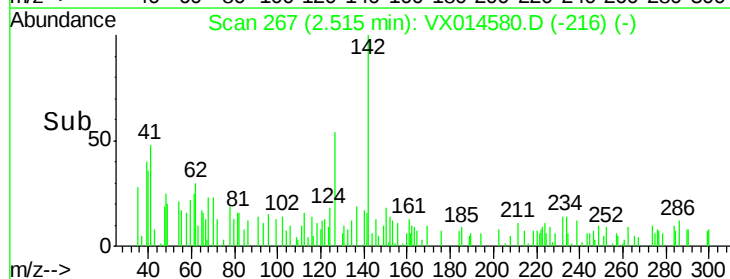
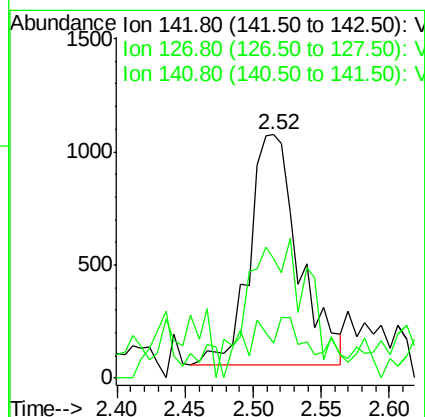
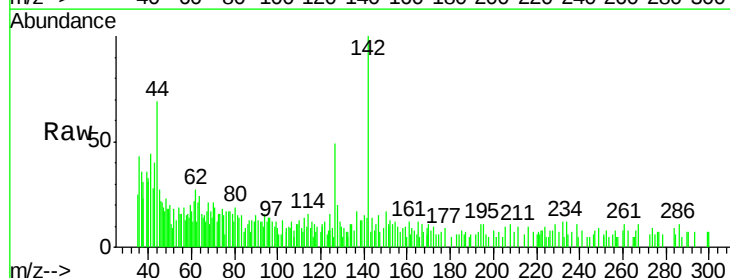
Tgt Ion: 142 Resp: 2581

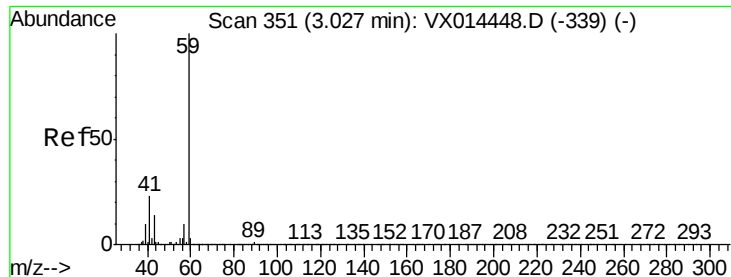
Ion Ratio Lower Upper

142 100

127 75.5 31.2 46.8#

141 28.5 11.4 17.2#

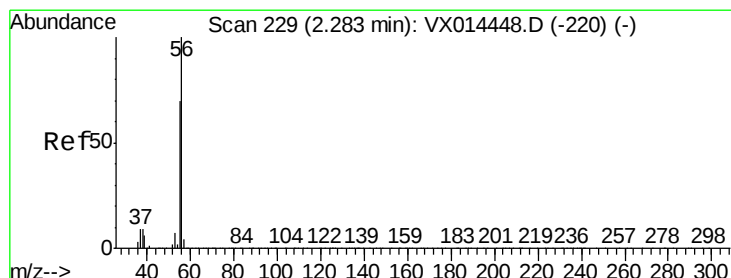
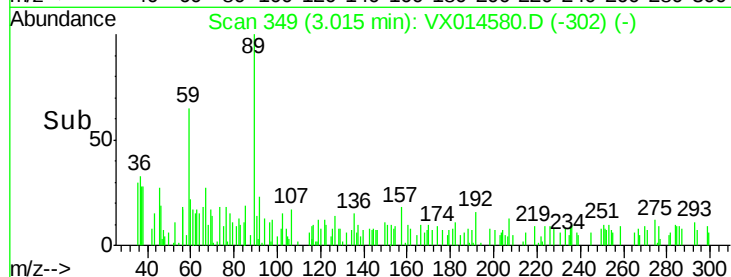
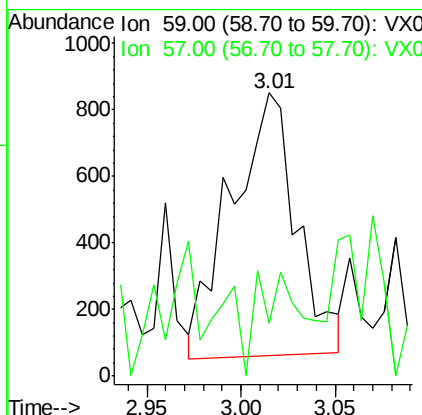
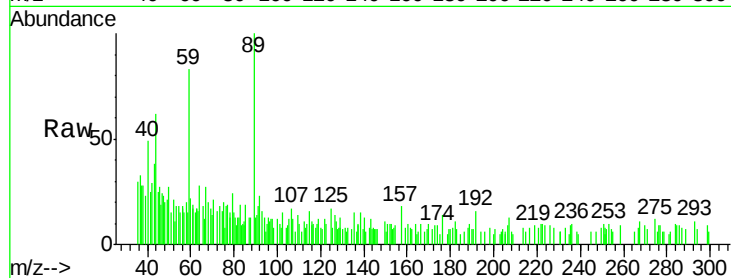




#11
Tert butyl alcohol
Concen: 1.678 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

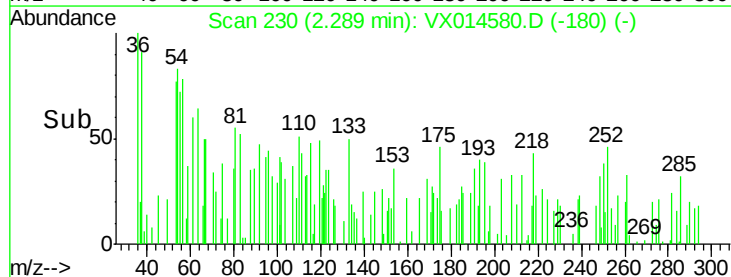
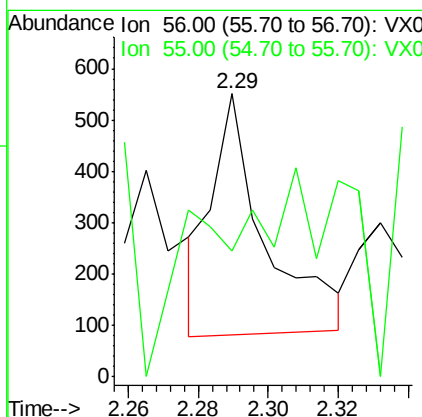
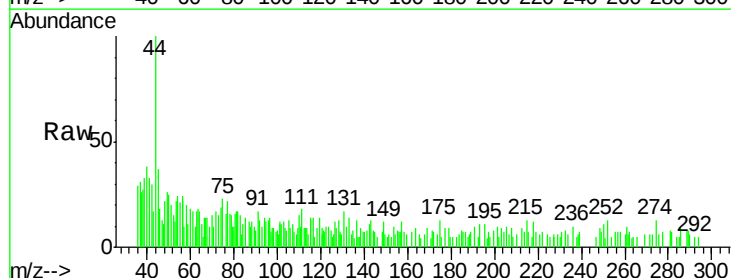
Instrument :
MSVOA_X
ClientSampleId :
CIY1-TB010820

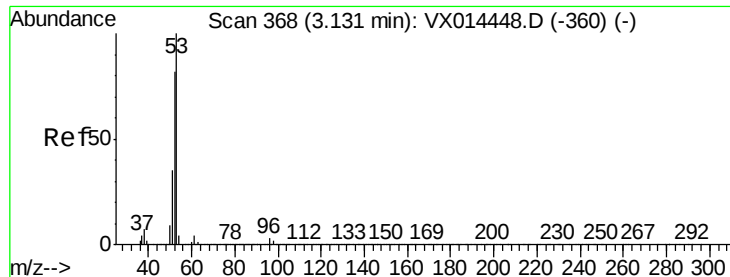
Tgt Ion: 59 Resp: 1914
Ion Ratio Lower Upper
59 100
57 25.8 8.5 12.7#



#13
Acrolein
Concen: 0.544 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

Tgt Ion: 56 Resp: 497
Ion Ratio Lower Upper
56 100
55 75.7 55.0 82.6





#15

Acrylonitrile

Concen: 0.577 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

CIY1-TB010820

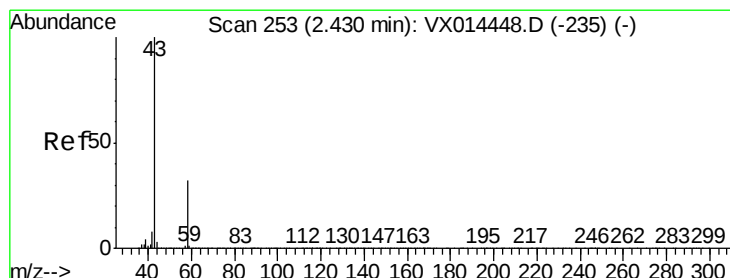
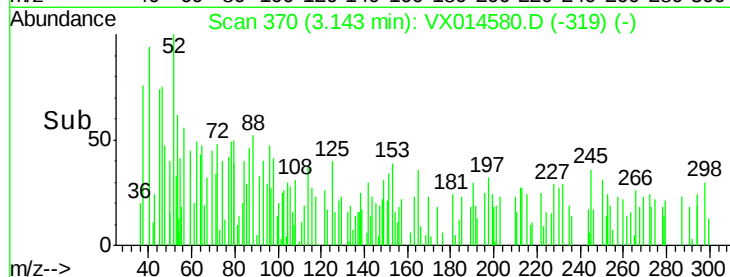
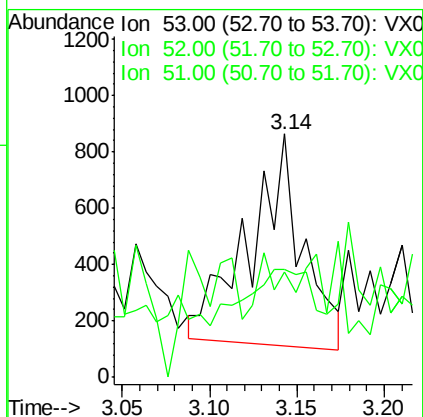
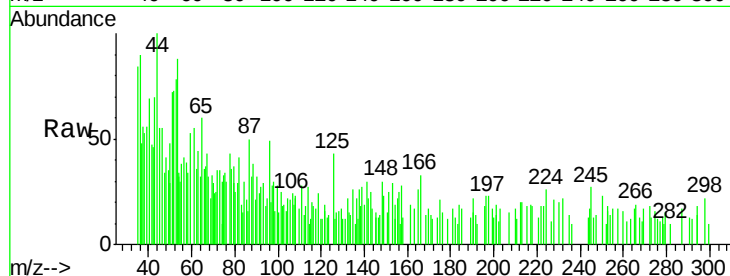
Tgt Ion: 53 Resp: 1589

Ion Ratio Lower Upper

53 100

52 31.7 67.0 100.4#

51 9.2 28.5 42.7#



#16

Acetone

Concen: 0.461 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014580.D

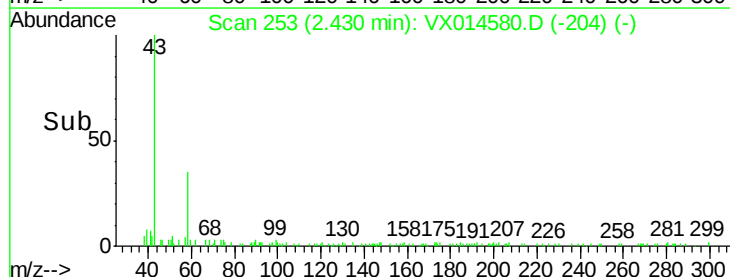
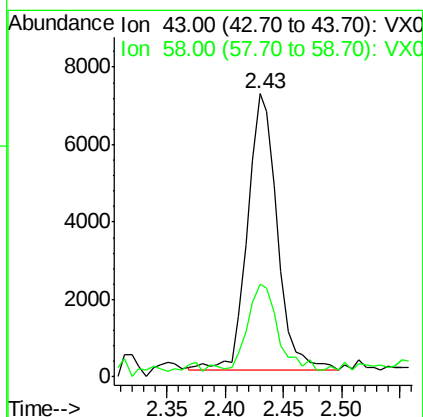
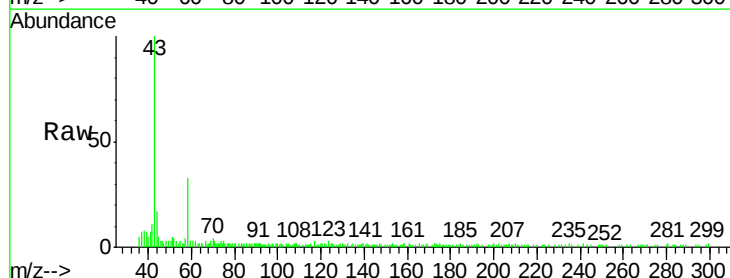
Acq: 13 Jan 2020 12:38

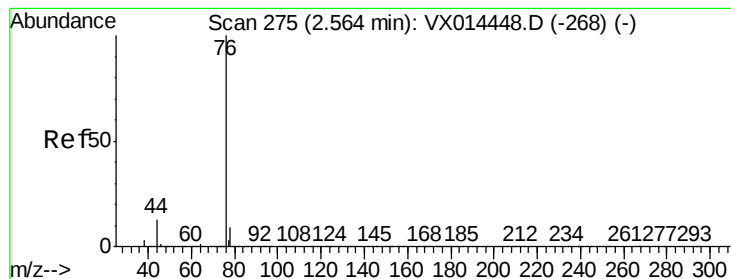
Tgt Ion: 43 Resp: 12687

Ion Ratio Lower Upper

43 100

58 31.1 25.4 38.0





#17

Carbon Disulfide

Concen: 0.260 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

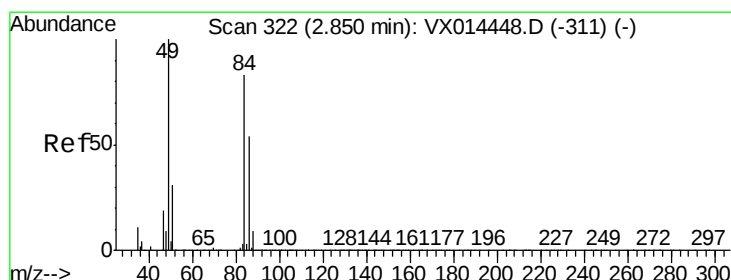
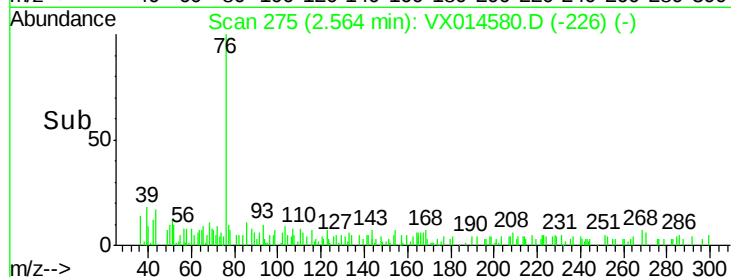
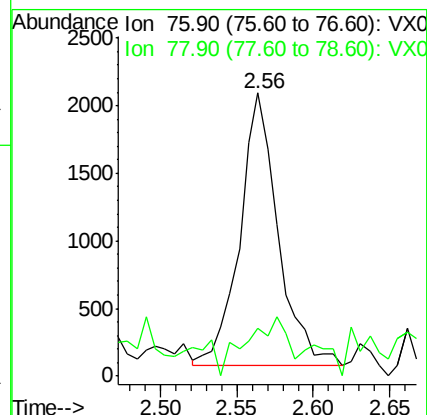
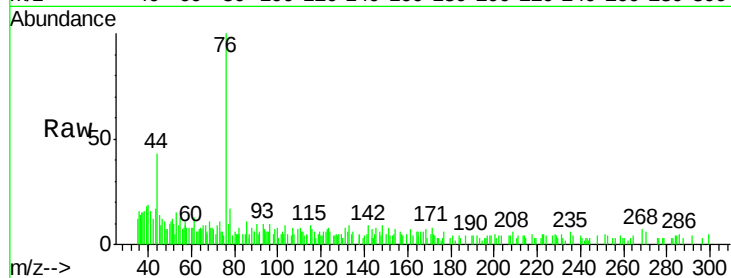
CIY1-TB010820

Tgt Ion: 76 Resp: 3510

Ion Ratio Lower Upper

76 100

78 17.6 7.4 11.2#



#20

Methylene Chloride

Concen: 1.715 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Tgt Ion: 84 Resp: 9423

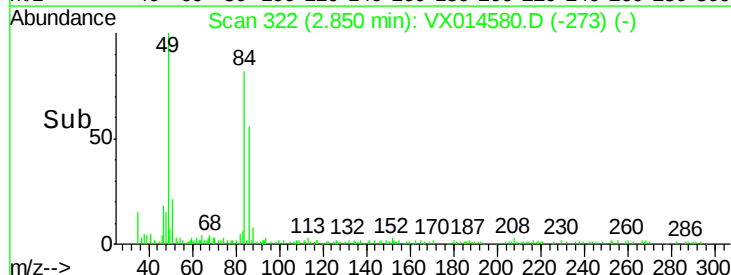
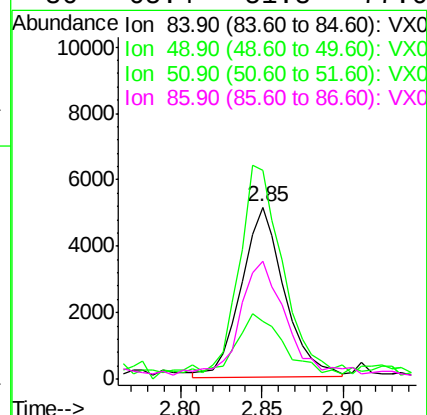
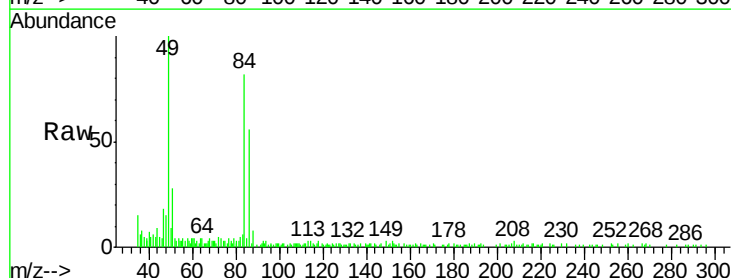
Ion Ratio Lower Upper

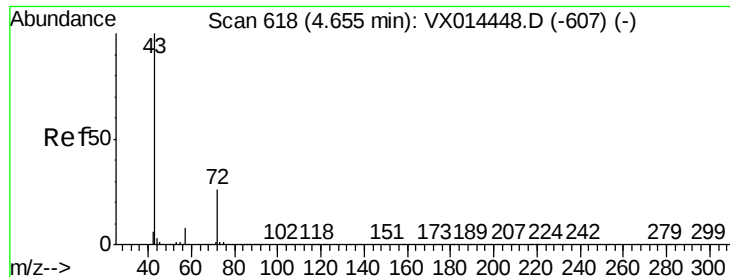
84 100

49 119.3 95.8 143.8

51 31.6 30.2 45.4

86 65.4 51.8 77.6





#25

2-Butanone

Concen: 1.666 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

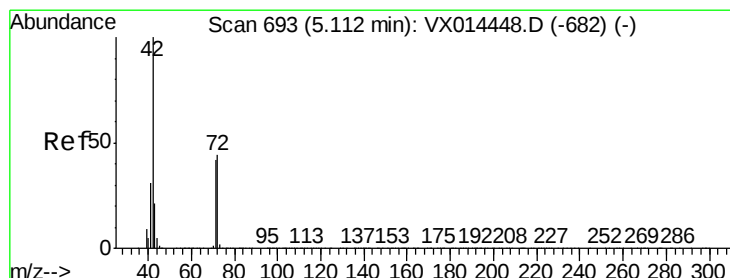
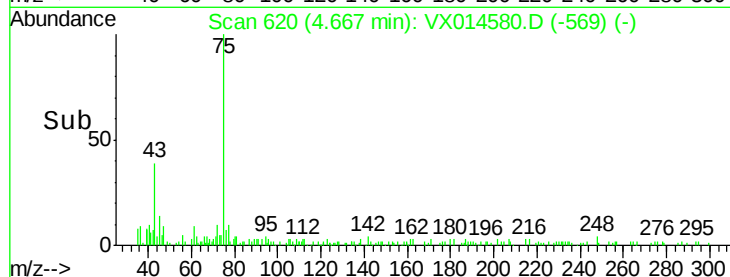
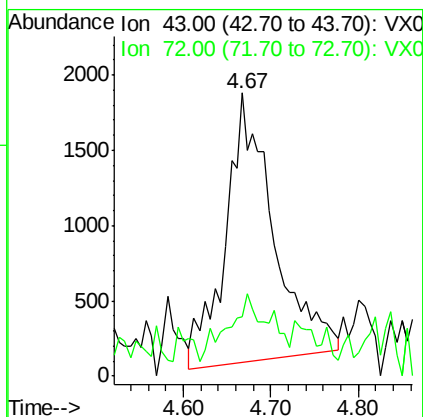
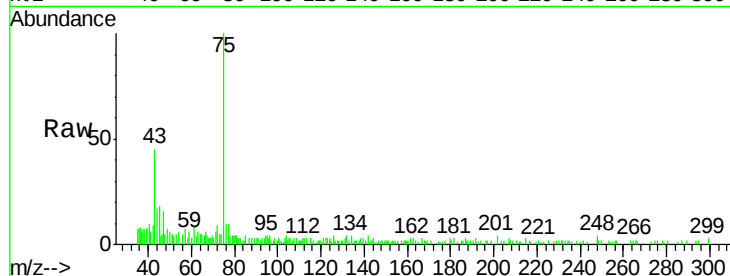
CIY1-TB010820

Tgt Ion: 43 Resp: 6797

Ion Ratio Lower Upper

43 100

72 17.0 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.298 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.11 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

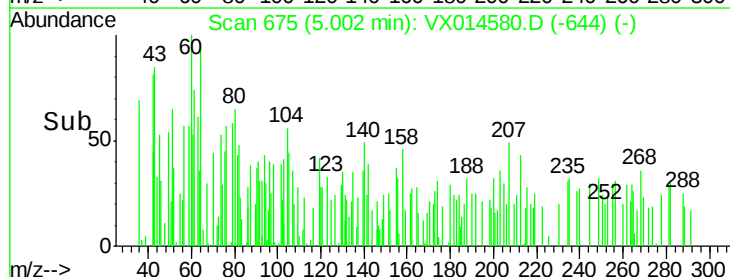
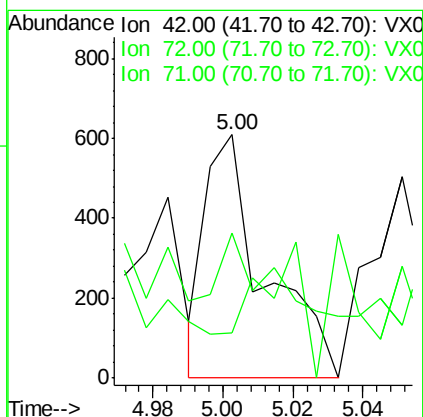
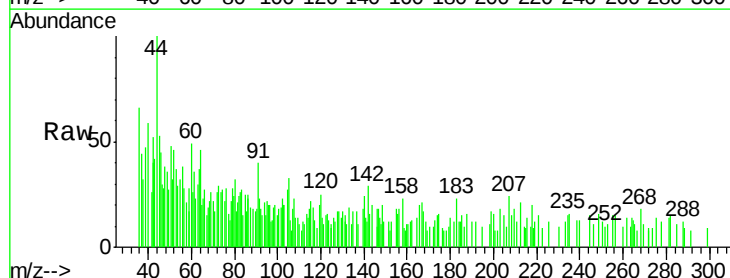
Tgt Ion: 42 Resp: 719

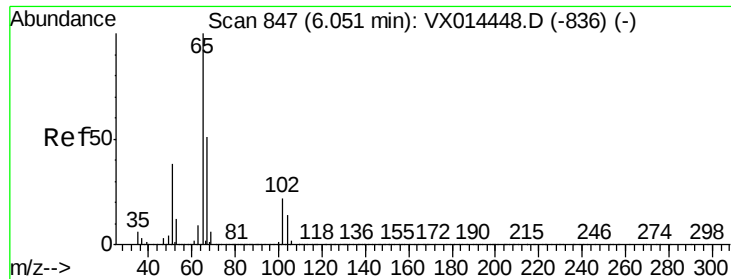
Ion Ratio Lower Upper

42 100

72 42.7 36.2 54.4

71 46.0 34.1 51.1

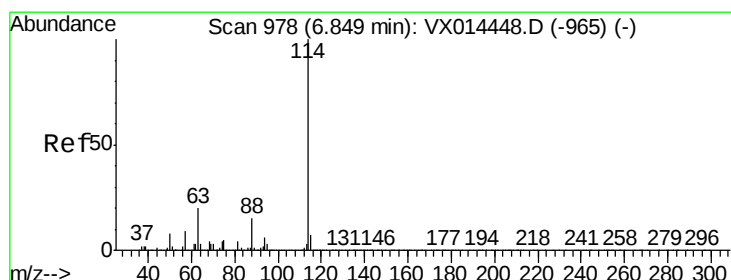
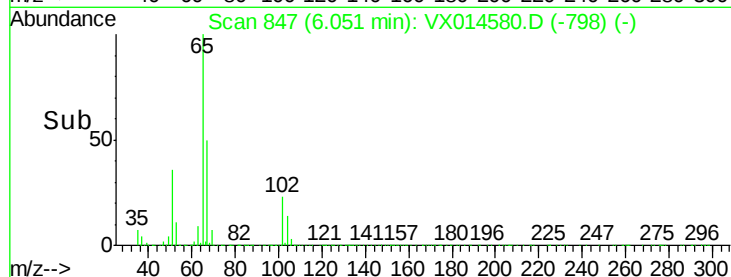
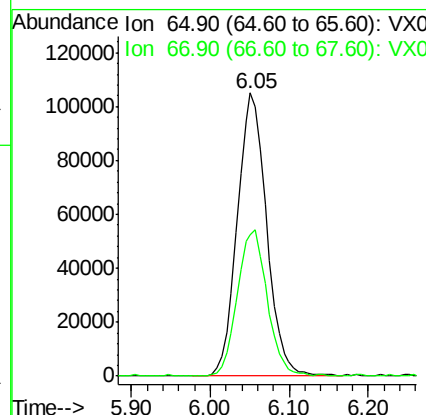
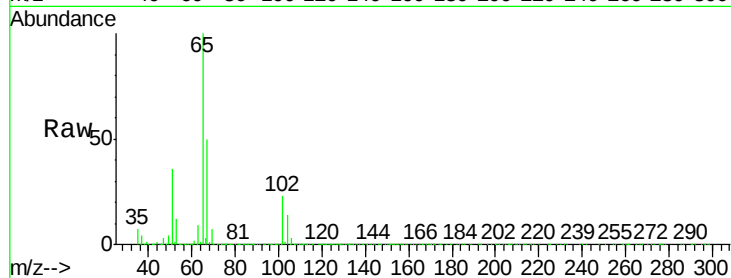




#33
 1,2-Dichloroethane-d4
 Concen: 49.642 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014580.D
 Acq: 13 Jan 2020 12:38

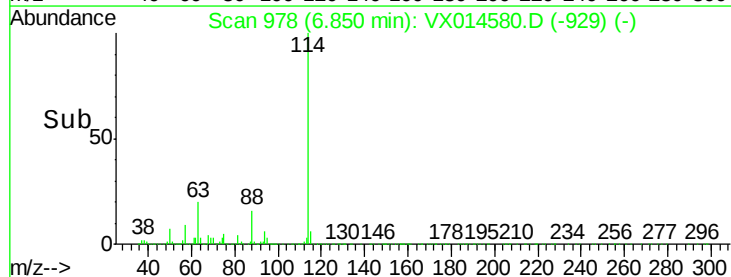
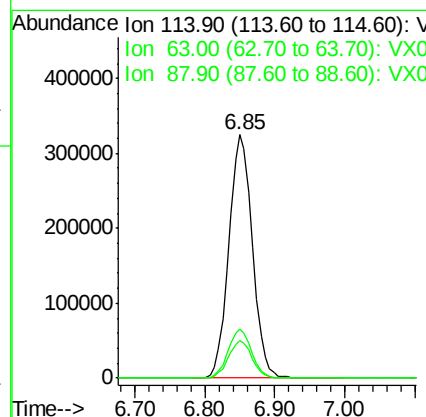
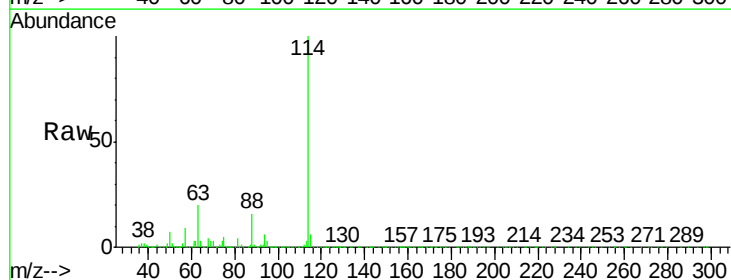
Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-TB010820

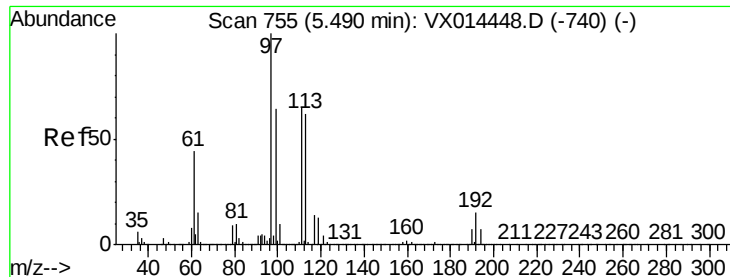
Tgt Ion: 65 Resp: 271176
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014580.D
 Acq: 13 Jan 2020 12:38

Tgt Ion: 114 Resp: 756543
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.6
 88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 48.806 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

CIY1-TB010820

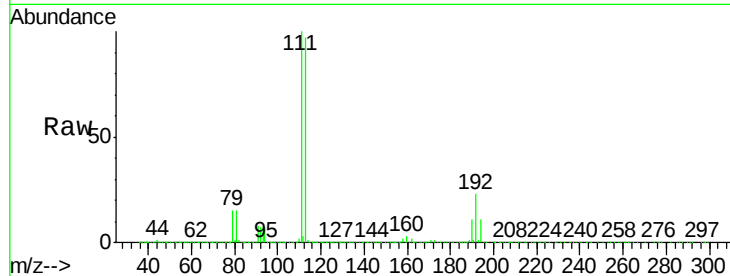
Tgt Ion:113 Resp: 223516

Ion Ratio Lower Upper

113 100

111 104.2 81.5 122.3

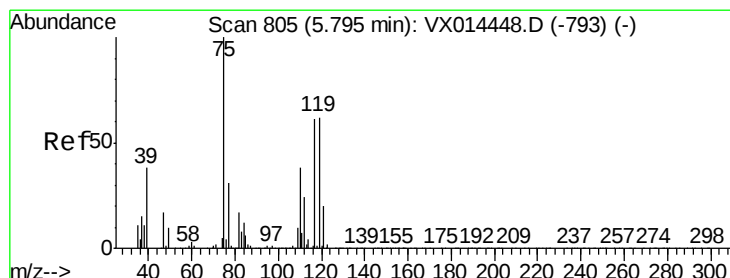
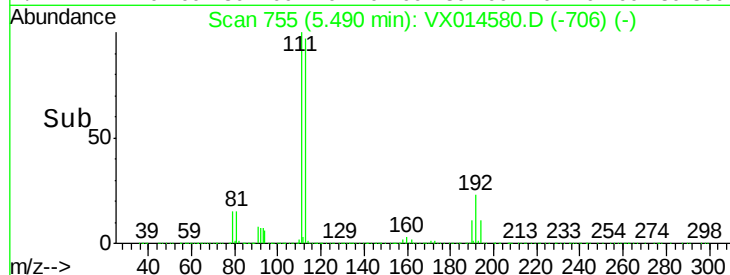
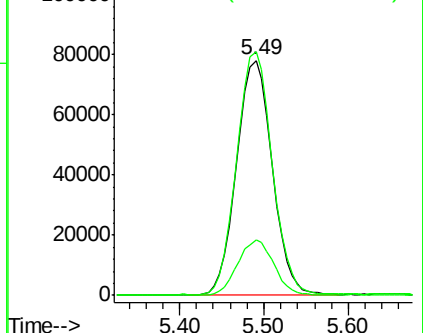
192 23.7 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.623 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

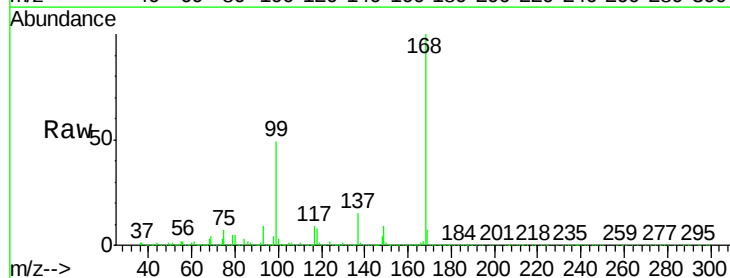
Tgt Ion: 75 Resp: 32888

Ion Ratio Lower Upper

75 100

110 10.5 18.6 55.8#

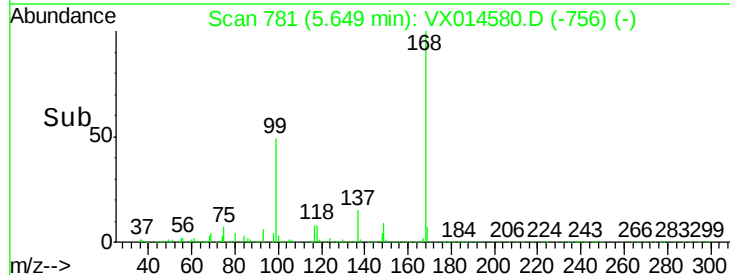
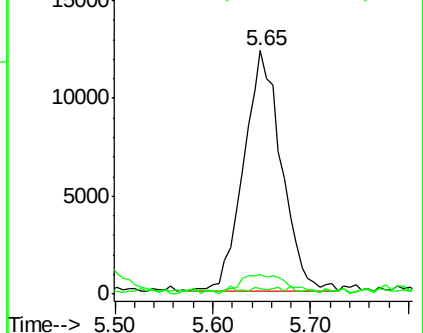
77 0.6 24.5 36.7#

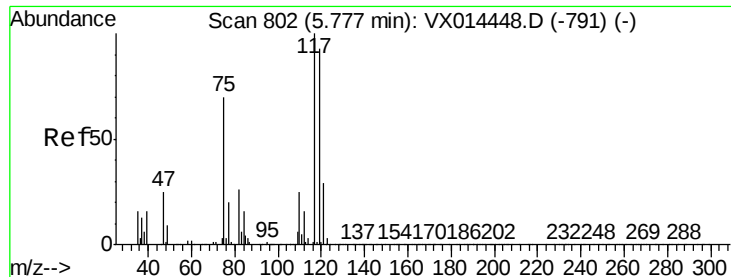


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

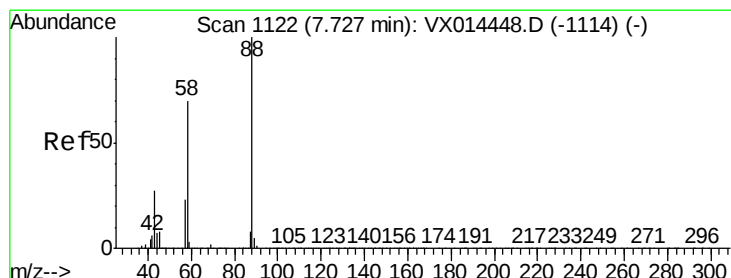
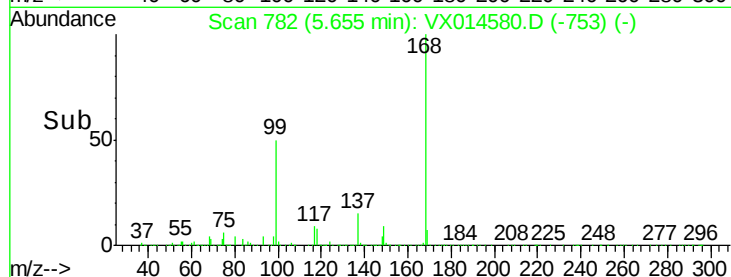
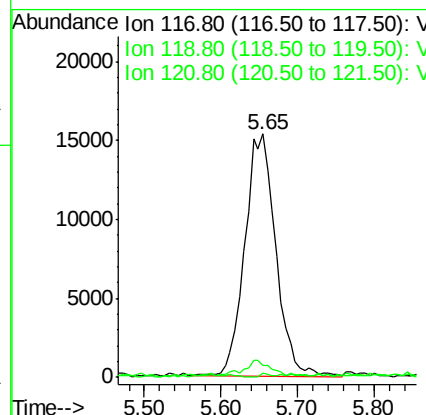
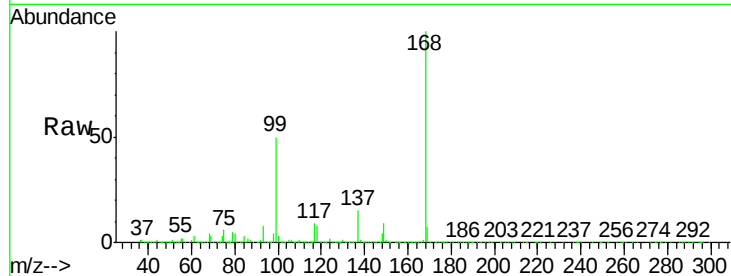




#38
Carbon Tetrachloride
Concen: 6.620 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

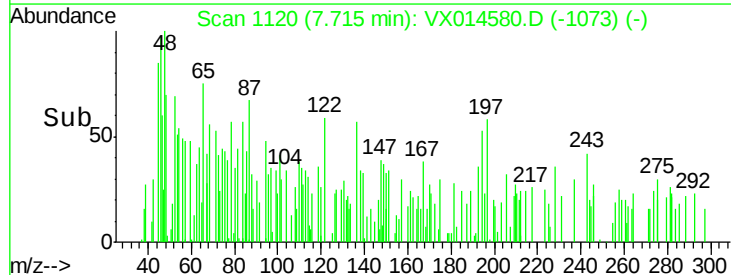
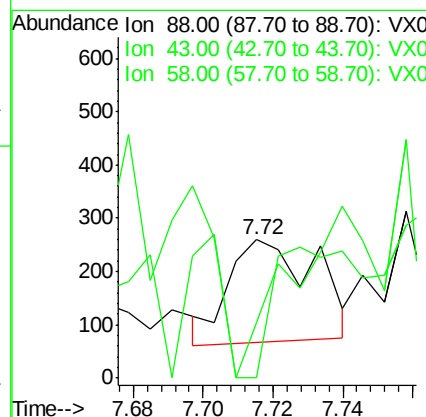
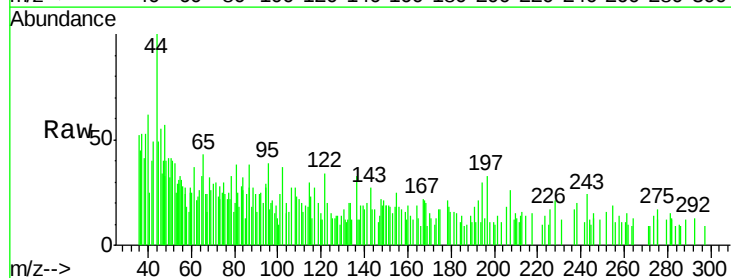
Instrument :
MSVOA_X
ClientSampleId :
CIY1-TB010820

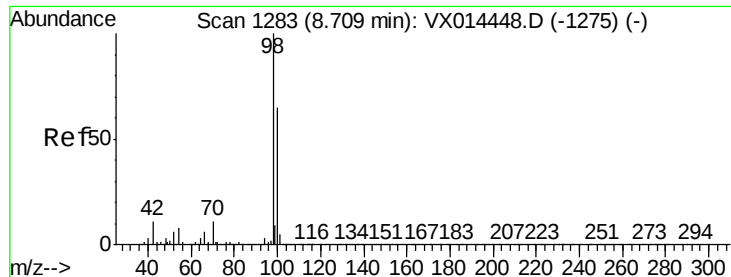
Tgt Ion: 117 Resp: 43344
Ion Ratio Lower Upper
117 100
119 3.6 73.8 110.8#
121 1.3 23.4 35.0#



#49
1,4-Dioxane
Concen: 2.605 ug/l
RT: 7.72 min Scan# 1120
Delta R.T. -0.01 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

Tgt Ion: 88 Resp: 330
Ion Ratio Lower Upper
88 100
43 125.2 27.4 41.0#
58 0.0 57.1 85.7#





#50

Toluene-d8

Concen: 50.344 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

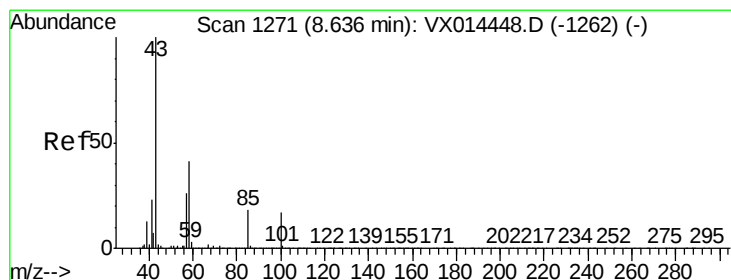
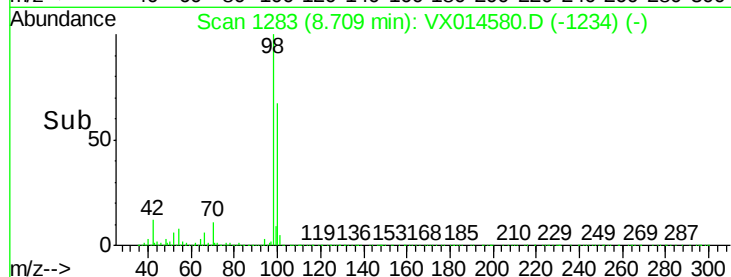
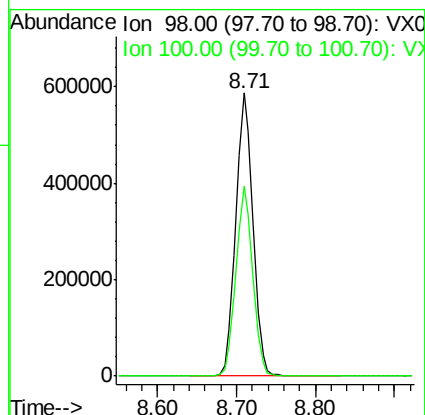
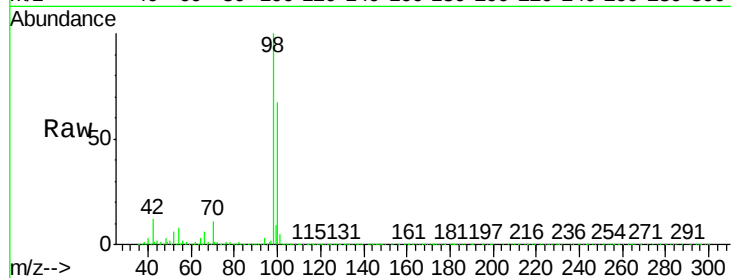
CIY1-TB010820

Tgt Ion: 98 Resp: 894720

Ion Ratio Lower Upper

98 100

100 65.8 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 0.429 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014580.D

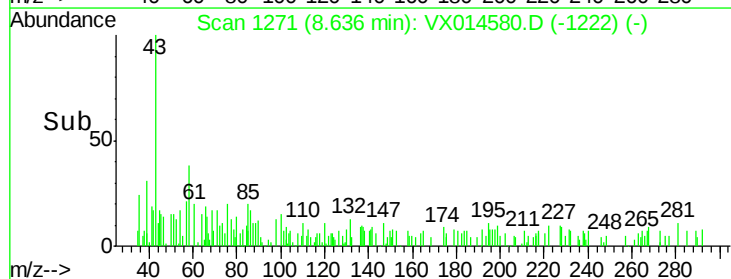
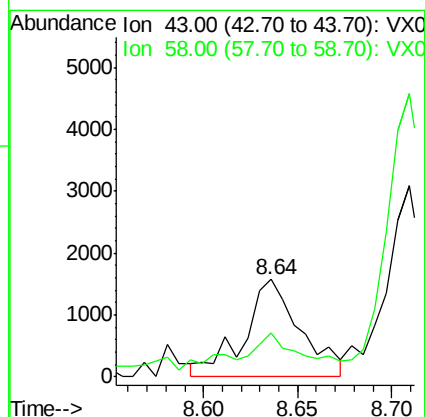
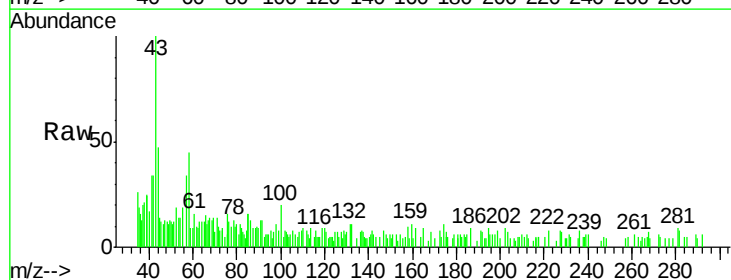
Acq: 13 Jan 2020 12:38

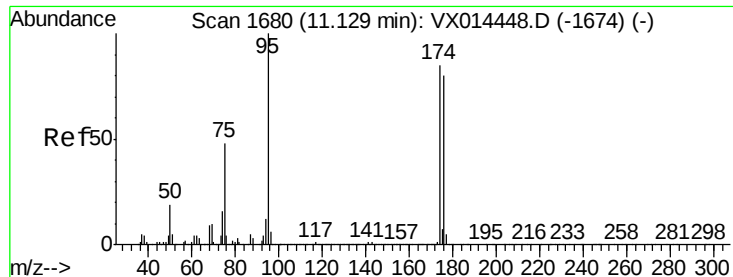
Tgt Ion: 43 Resp: 3267

Ion Ratio Lower Upper

43 100

58 15.7 32.4 48.6#





#62

4-Bromofluorobenzene

Concen: 45.929 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

CIY1-TB010820

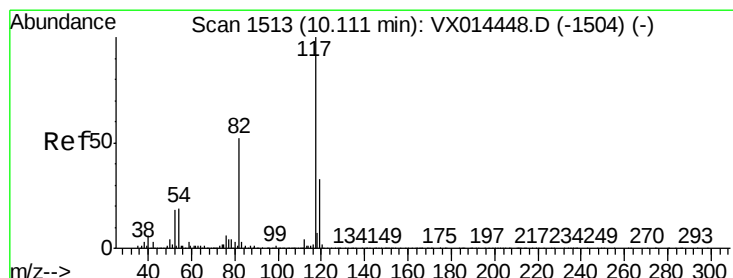
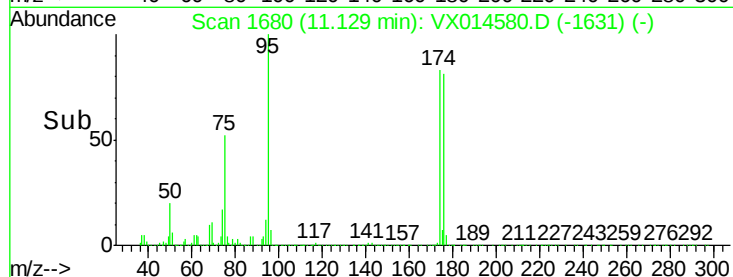
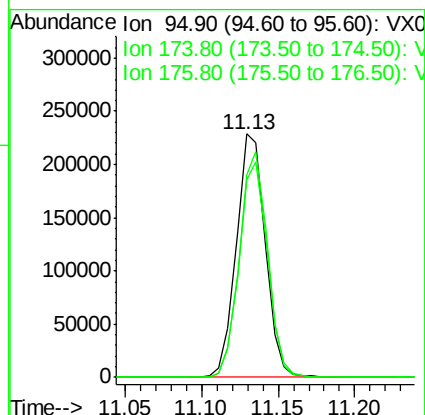
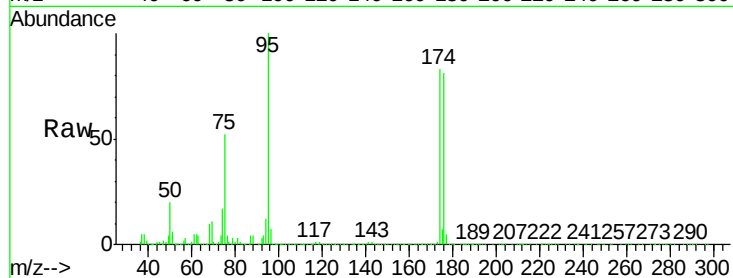
Tgt Ion: 95 Resp: 299659

Ion Ratio Lower Upper

95 100

174 90.9 0.0 180.8

176 87.0 0.0 172.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

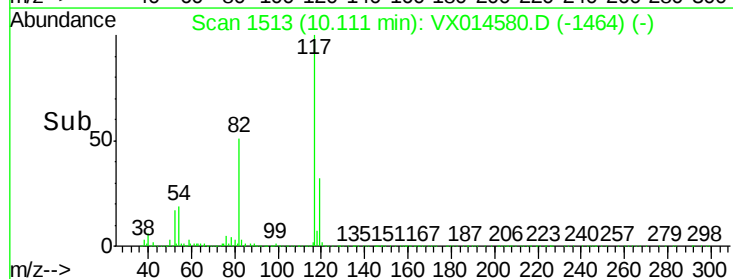
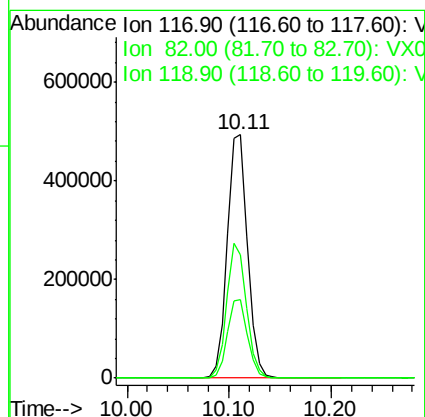
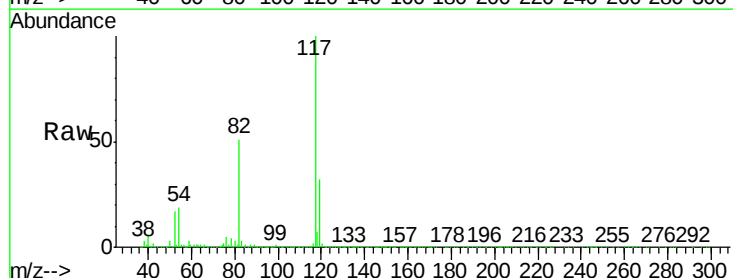
Tgt Ion: 117 Resp: 678506

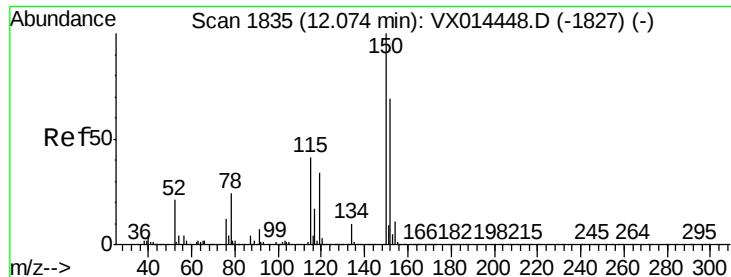
Ion Ratio Lower Upper

117 100

82 50.7 41.8 62.6

119 32.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

CIY1-TB010820

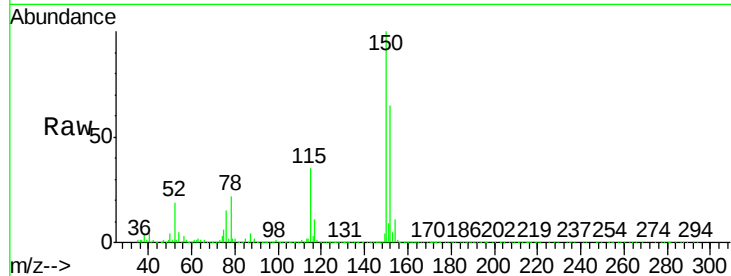
Tgt Ion: 152 Resp: 313564

Ion Ratio Lower Upper

152 100

115 54.3 39.5 118.3

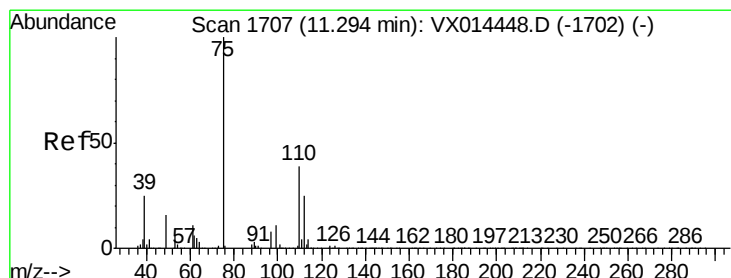
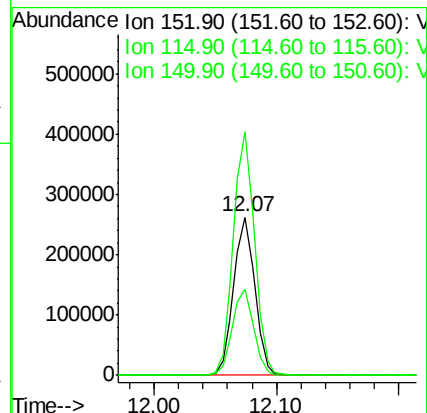
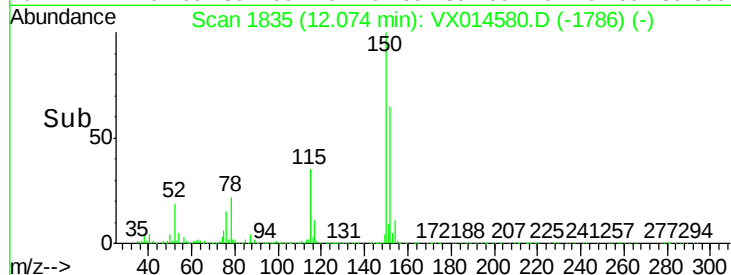
150 153.7 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.027 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014580.D

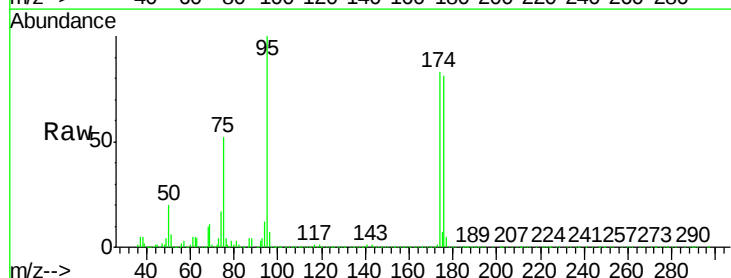
Acq: 13 Jan 2020 12:38

Tgt Ion: 75 Resp: 149395

Ion Ratio Lower Upper

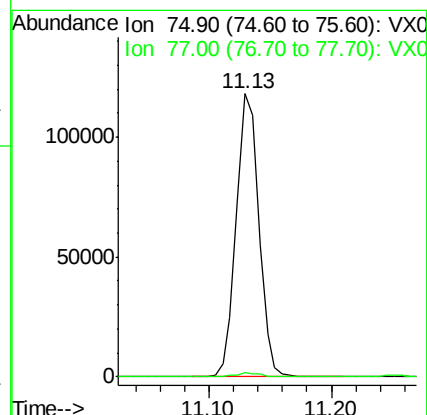
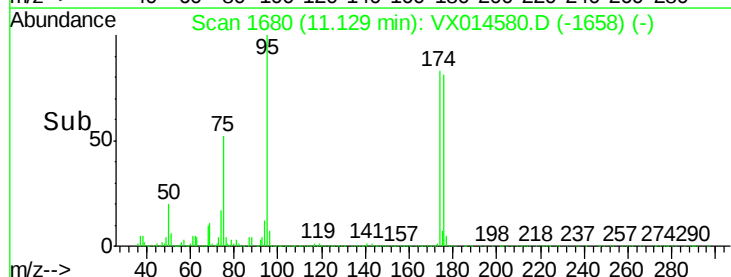
75 100

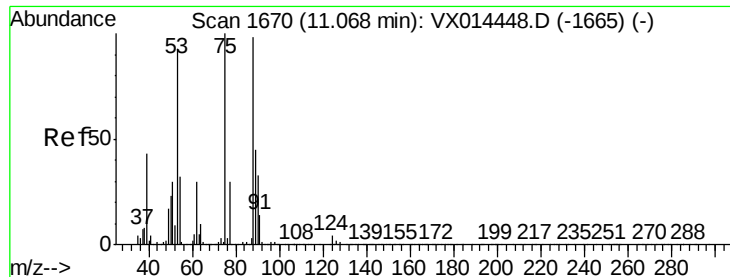
77 2.0 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

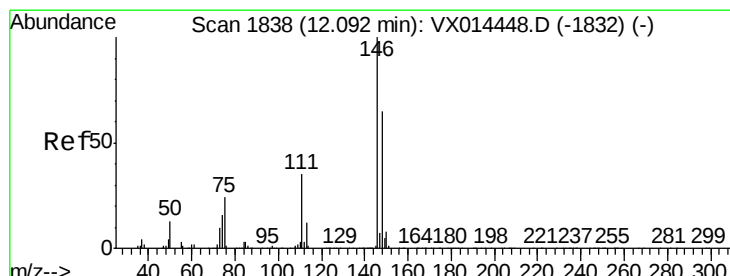
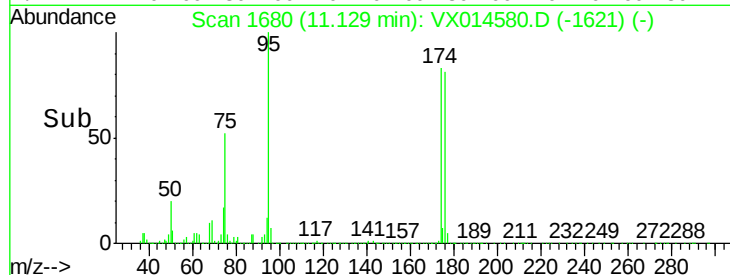
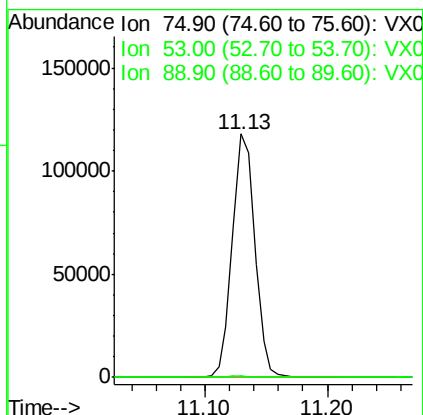
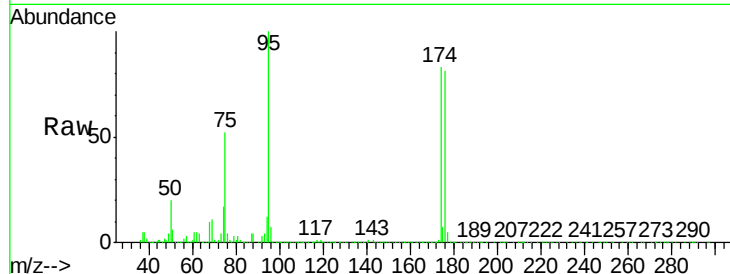




#81
trans-1,4-Dichloro-2-butene
Concen: 60.880 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

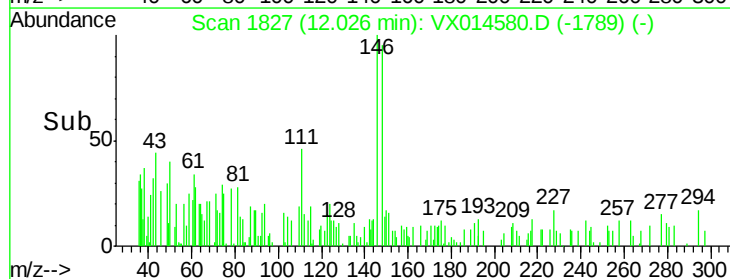
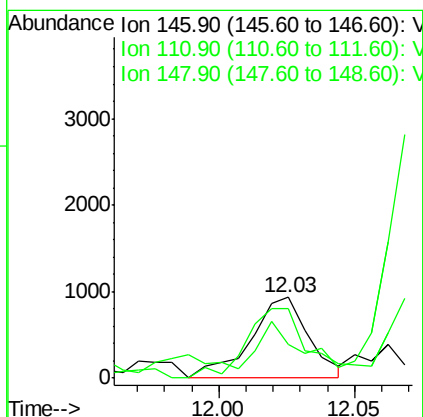
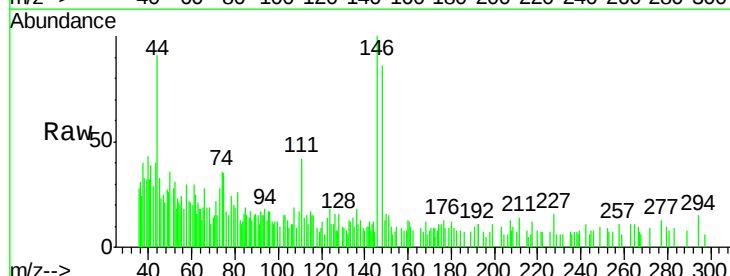
Instrument :
MSVOA_X
ClientSampleId :
CIY1-TB010820

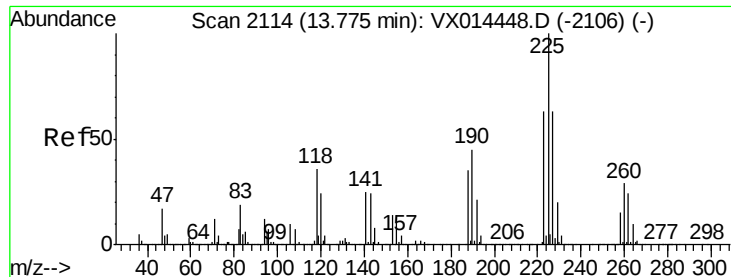
Tgt Ion: 75 Resp: 149395
Ion Ratio Lower Upper
75 100
53 0.2 74.8 112.2#
89 0.4 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.03 min Scan# 1827
Delta R.T. -0.07 min
Lab File: VX014580.D
Acq: 13 Jan 2020 12:38

Tgt Ion: 146 Resp: 1389
Ion Ratio Lower Upper
146 100
111 50.7 18.1 54.1
148 94.3 32.1 96.3





#94

Hexachlorobutadiene

Concen: 0.292 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. -0.01 min

Lab File: VX014580.D

Acq: 13 Jan 2020 12:38

Instrument :

MSVOA_X

ClientSampleId :

CIY1-TB010820

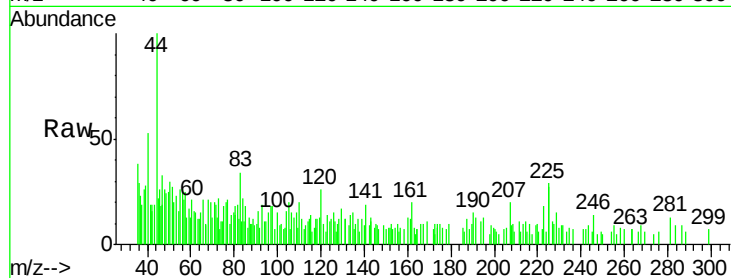
Tgt Ion: 225 Resp: 815

Ion Ratio Lower Upper

225 100

223 45.9 31.1 93.2

227 78.2 31.4 94.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

