

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011320\
 Data File : VX014586.D
 Acq On : 13 Jan 2020 14:58
 Operator : JC/SP
 Sample : L1106-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-WC-SB-BC-04

Quant Time: Jan 14 13:06:25 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

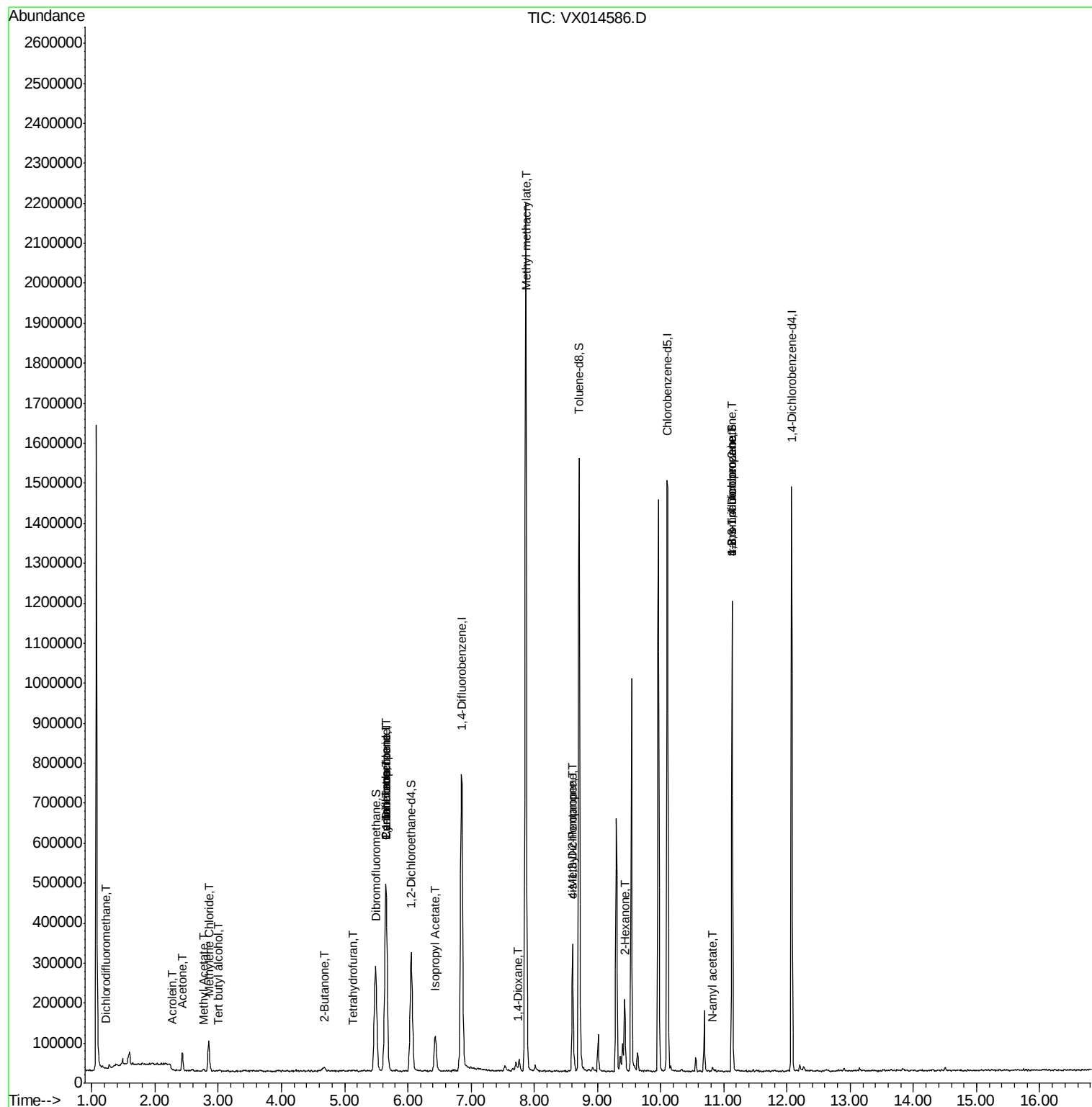
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	486578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	752273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	698095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	314457	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	274558	50.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.10%	
35) Dibromofluoromethane	5.49	113	226922	49.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.66%	
50) Toluene-d8	8.71	98	913057	51.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	11.13	95	313275	48.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.58%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.22	85	630	0.356	ug/l	91
6) Chloroethane	1.73	64	332	Below Cal	#	84
11) Tert butyl alcohol	3.01	59	2494	2.199	ug/l #	94
13) Acrolein	2.27	56	204	0.224	ug/l #	3
16) Acetone	2.44	43	48994	14.045	ug/l	95
18) Methyl Acetate	2.76	43	5330	0.683	ug/l	95
20) Methylene Chloride	2.85	84	37333	6.832	ug/l	94
25) 2-Butanone	4.67	43	8657	2.134	ug/l	94
29) Tetrahydrofuran	5.14	42	3173	1.323	ug/l #	72
31) Cyclohexane	5.65	56	8628	1.039	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	34238	4.840	ug/l #	46
38) Carbon Tetrachloride	5.65	117	43256	6.644	ug/l #	18
43) Isopropyl Acetate	6.43	43	120935	9.742	ug/l	99
48) Methyl methacrylate	7.87	41	181292	30.493	ug/l #	43
49) 1,4-Dioxane	7.74	88	270	2.143	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	118386	15.650	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	53537	6.262	ug/l #	59
59) 2-Hexanone	9.43	43	142452	23.800	ug/l #	23
74) N-amyl acetate	10.82	43	5127	0.526	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	152223	23.397	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	152223	61.856	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	956	Below Cal	#	50
93) 1,2,4-Trichlorobenzene	13.65	180	620	Below Cal	#	74
96) 1,2,3-Trichlorobenzene	14.01	180	353	Below Cal		74

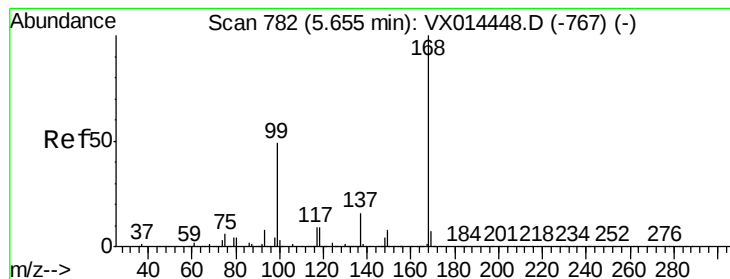
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

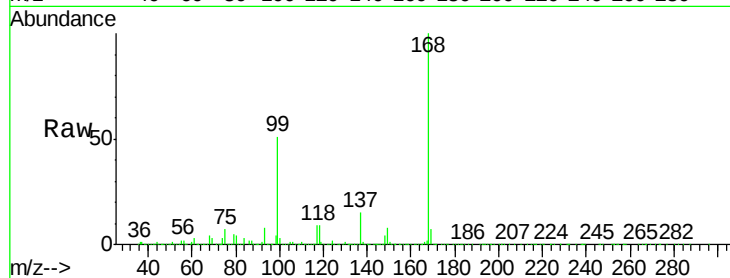
CIY1-WC-SB-BC-04

Tgt Ion: 168 Resp: 486578

Ion Ratio Lower Upper

168 100

99 50.4 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

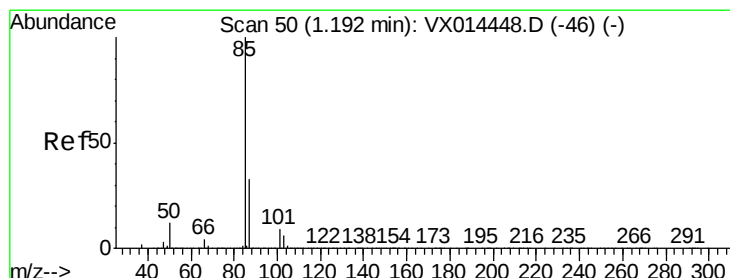
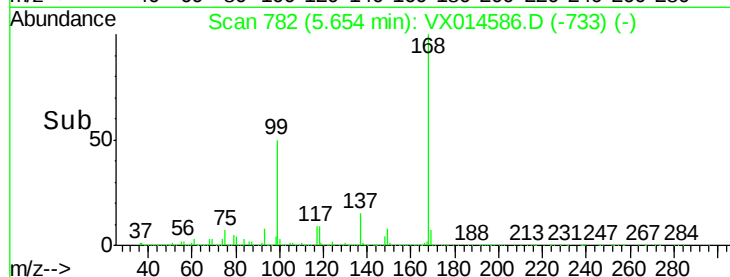
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.356 ug/l

RT: 1.22 min Scan# 54

Delta R.T. 0.03 min

Lab File: VX014586.D

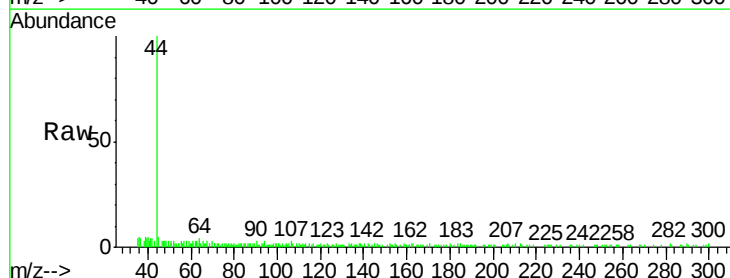
Acq: 13 Jan 2020 14:58

Tgt Ion: 85 Resp: 630

Ion Ratio Lower Upper

85 100

87 38.1 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.22

400

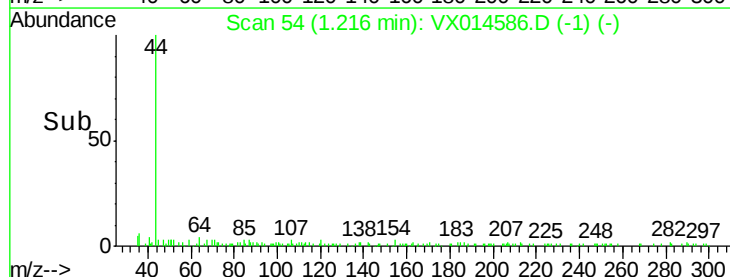
300

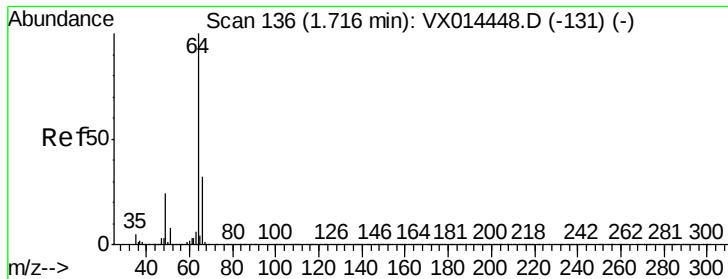
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

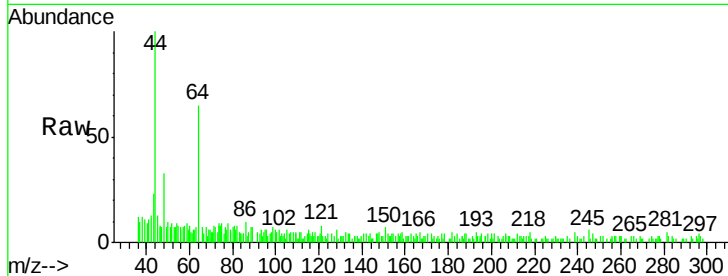
CIY1-WC-SB-BC-04

Tgt Ion: 64 Resp: 332

Ion Ratio Lower Upper

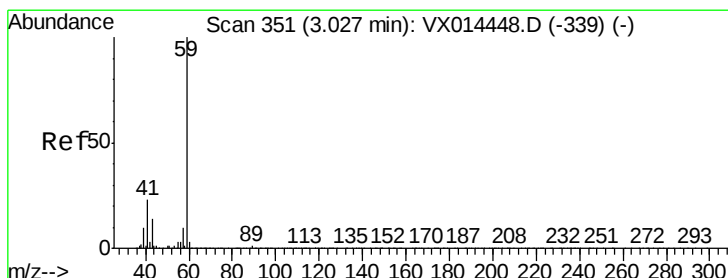
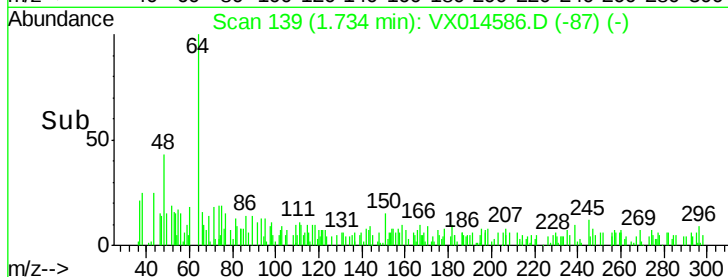
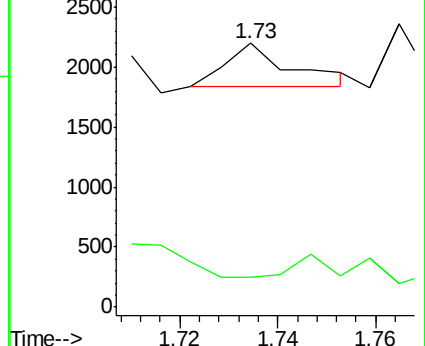
64 100

66 40.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.199 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX014586.D

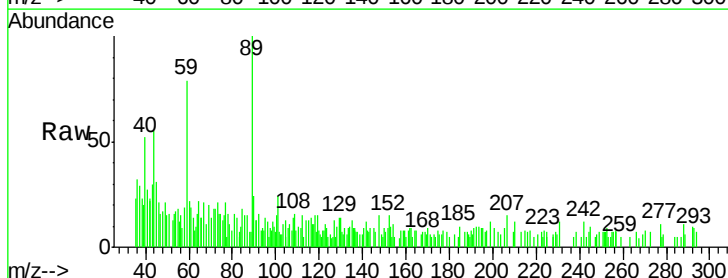
Acq: 13 Jan 2020 14:58

Tgt Ion: 59 Resp: 2494

Ion Ratio Lower Upper

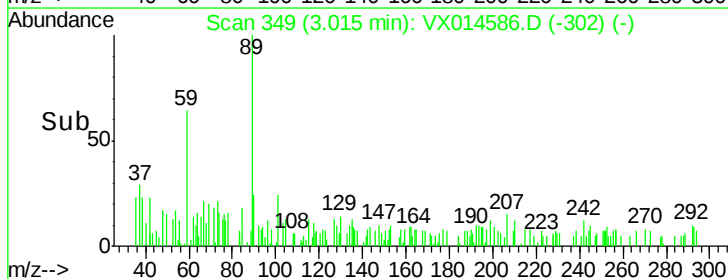
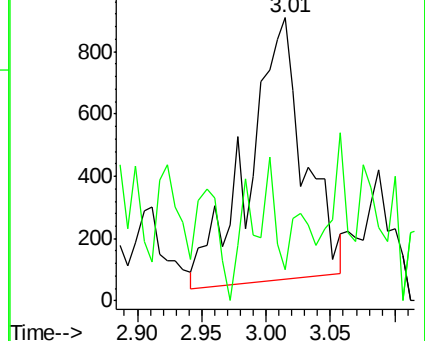
59 100

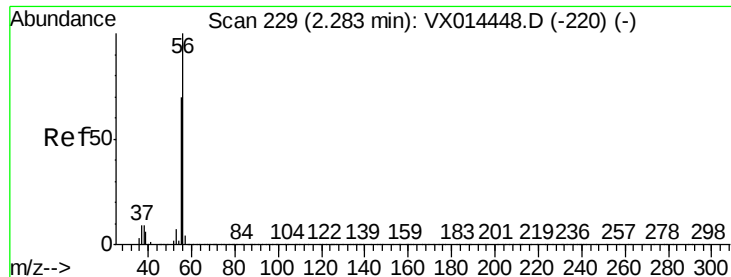
57 8.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.224 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

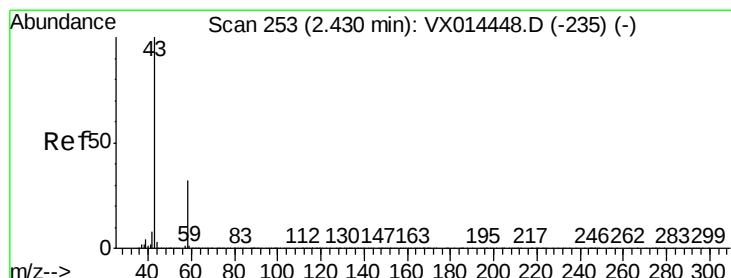
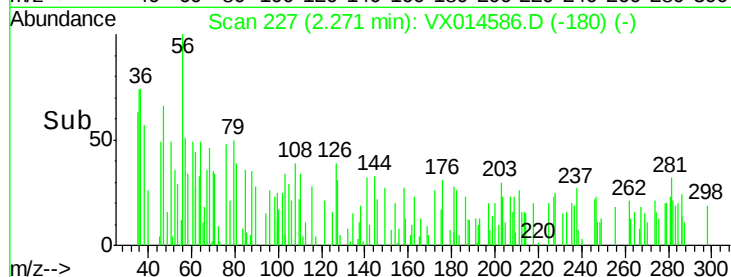
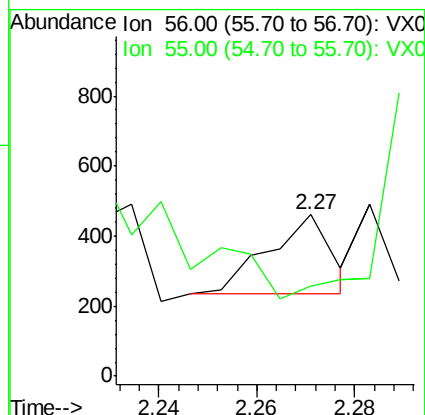
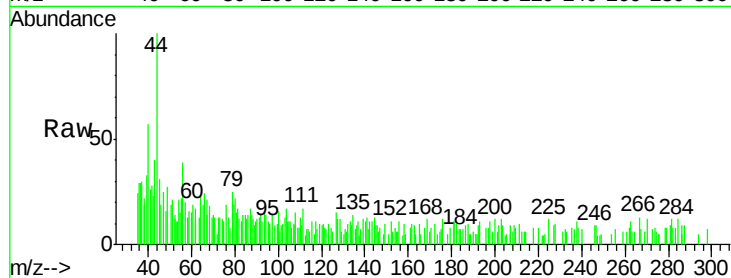
CIY1-WC-SB-BC-04

Tgt Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 147.5 55.0 82.6#



#16

Acetone

Concen: 14.045 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014586.D

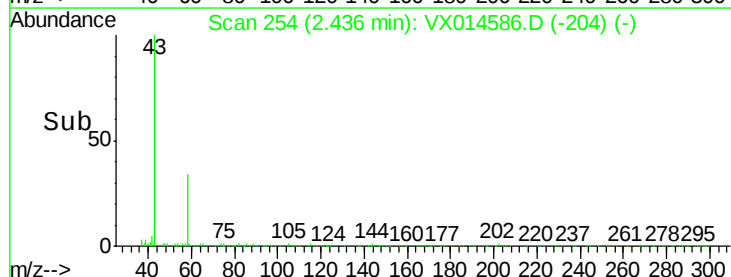
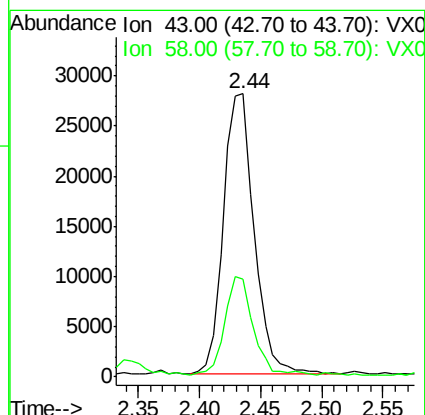
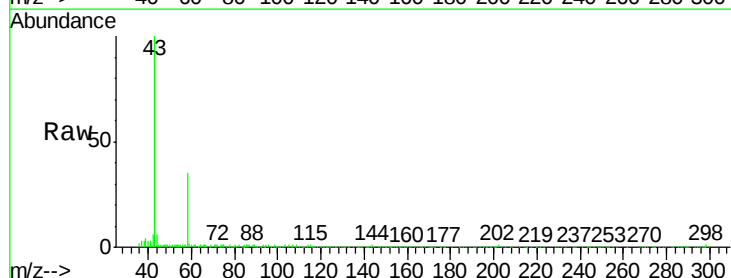
Acq: 13 Jan 2020 14:58

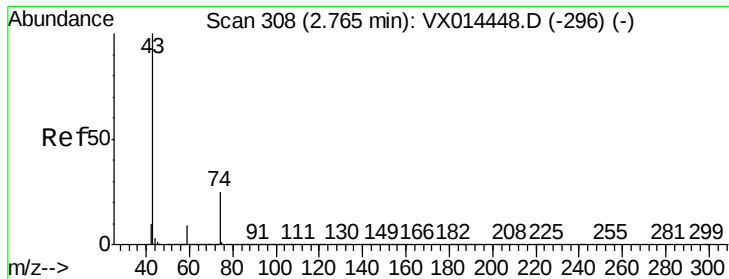
Tgt Ion: 43 Resp: 48994

Ion Ratio Lower Upper

43 100

58 34.5 25.4 38.0

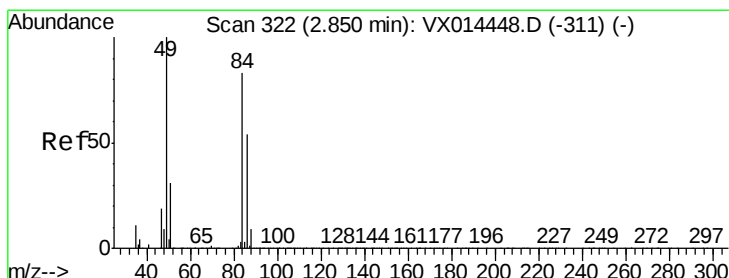
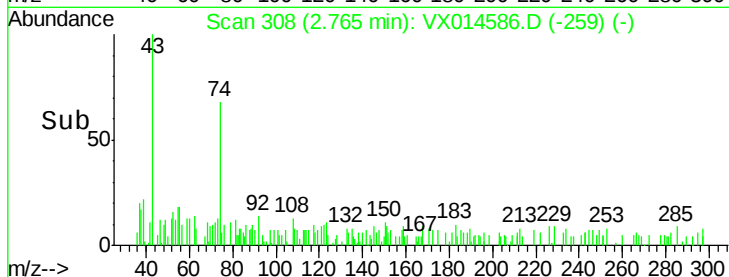
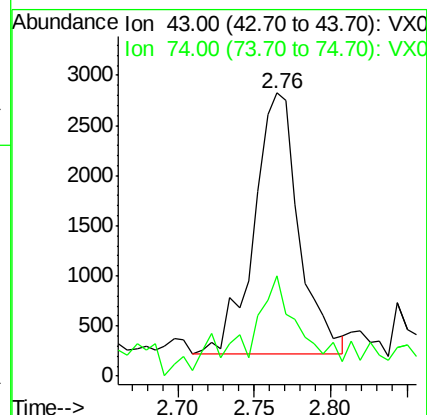
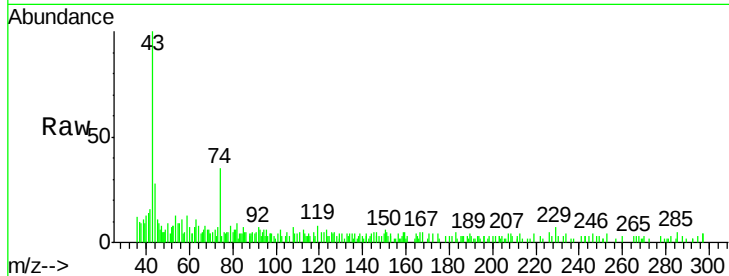




#18
Methyl Acetate
Concen: 0.683 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

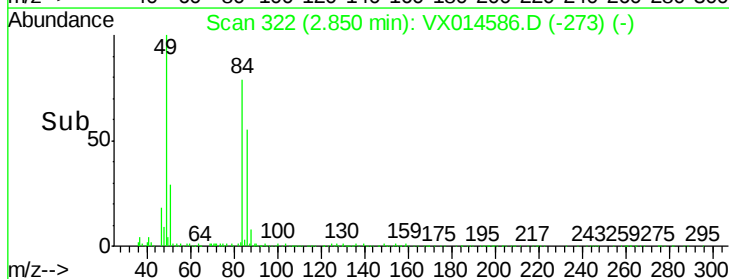
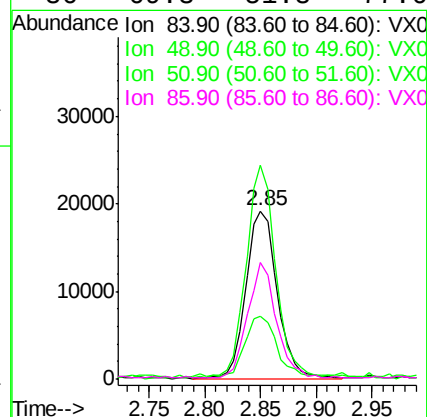
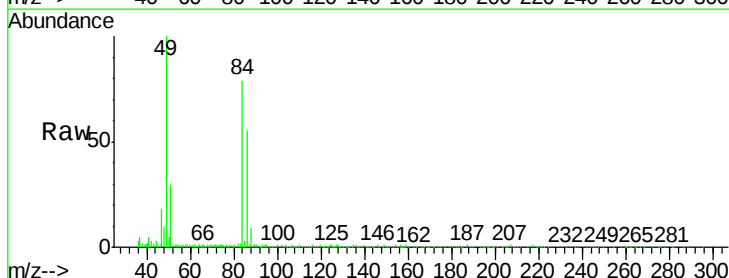
Instrument :
MSVOA_X
ClientSampleId :
CIY1-WC-SB-BC-04

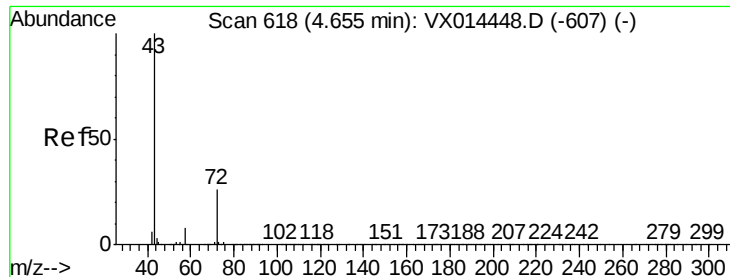
Tgt Ion: 43 Resp: 5330
Ion Ratio Lower Upper
43 100
74 26.6 19.4 29.2



#20
Methylene Chloride
Concen: 6.832 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

Tgt Ion: 84 Resp: 37333
Ion Ratio Lower Upper
84 100
49 126.7 95.8 143.8
51 35.9 30.2 45.4
86 69.3 51.8 77.6





#25

2-Butanone

Concen: 2.134 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

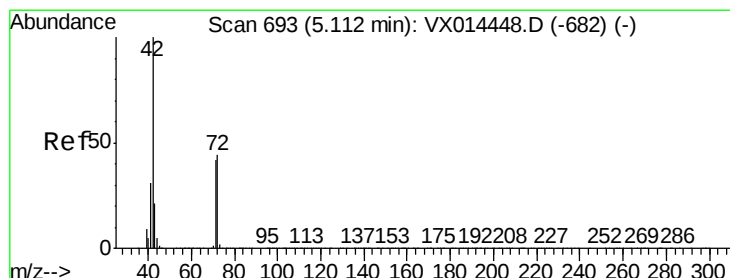
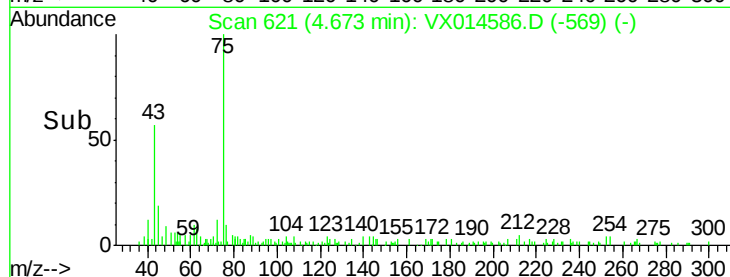
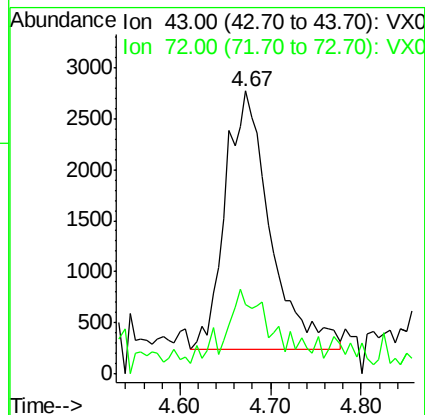
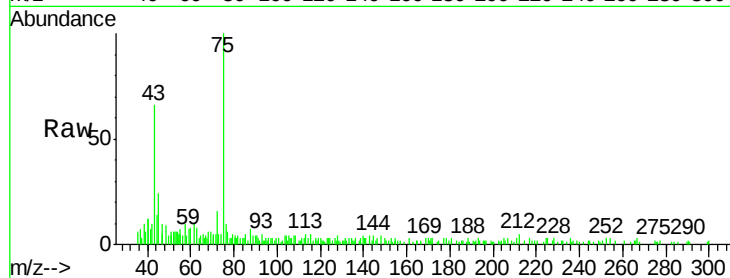
CIY1-WC-SB-BC-04

Tgt Ion: 43 Resp: 8657

Ion Ratio Lower Upper

43 100

72 22.8 20.6 31.0



#29

Tetrahydrofuran

Concen: 1.323 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

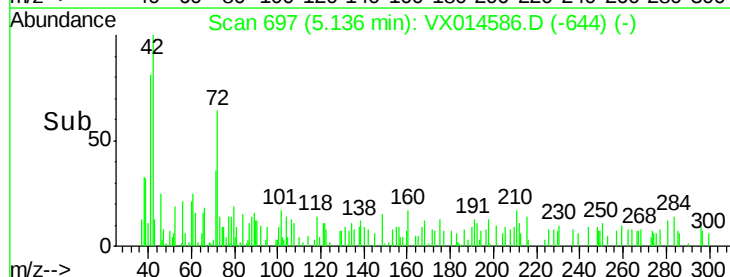
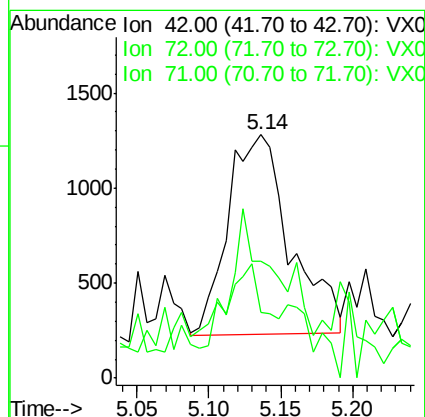
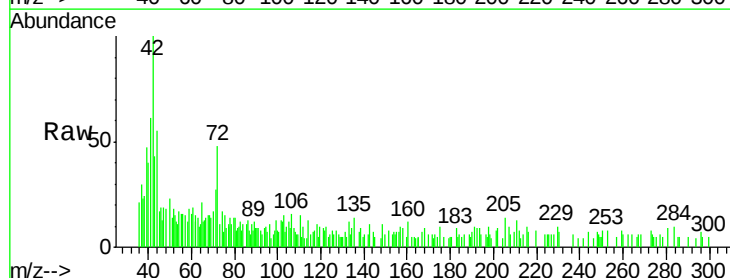
Tgt Ion: 42 Resp: 3173

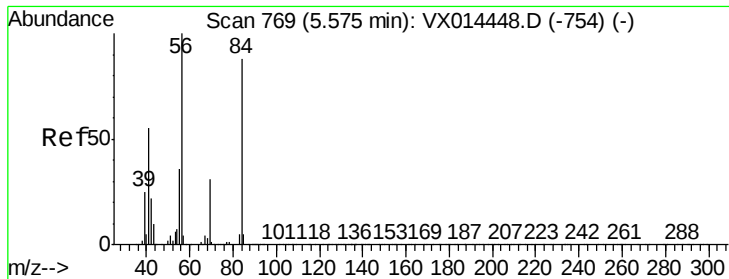
Ion Ratio Lower Upper

42 100

72 54.8 36.2 54.4#

71 15.9 34.1 51.1#





#31

Cyclohexane

Concen: 1.039 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.08 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

CIY1-WC-SB-BC-04

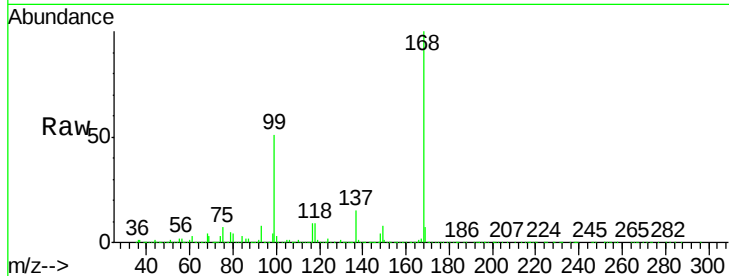
Tgt Ion: 56 Resp: 8628

Ion Ratio Lower Upper

56 100

69 161.3 24.4 36.6#

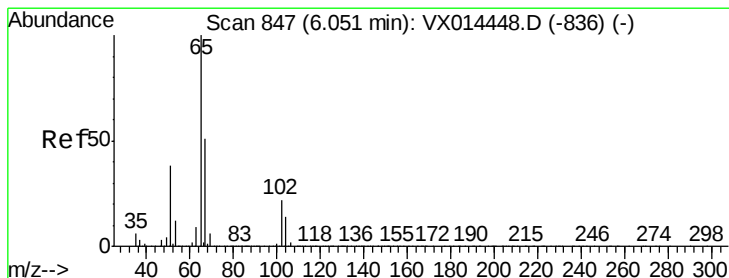
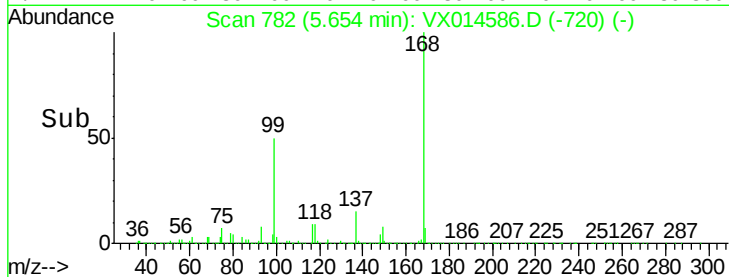
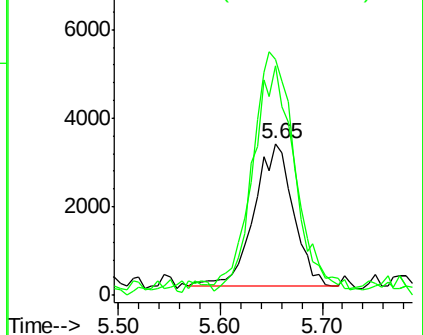
84 153.8 70.6 106.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.546 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014586.D

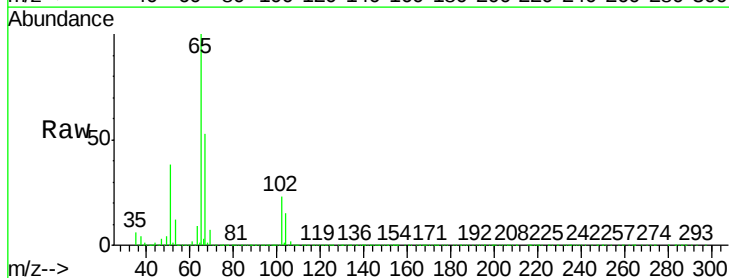
Acq: 13 Jan 2020 14:58

Tgt Ion: 65 Resp: 274558

Ion Ratio Lower Upper

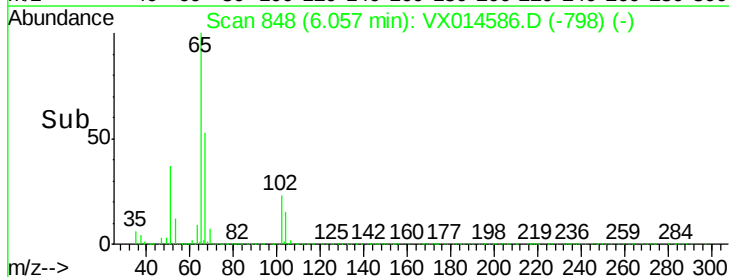
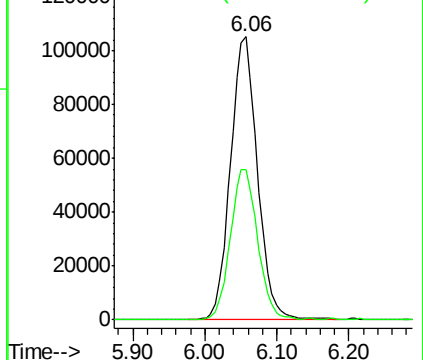
65 100

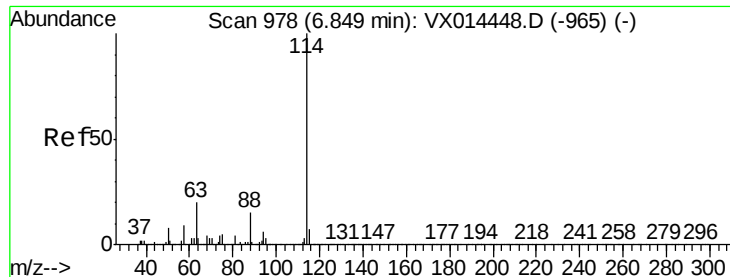
67 53.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

CIY1-WC-SB-BC-04

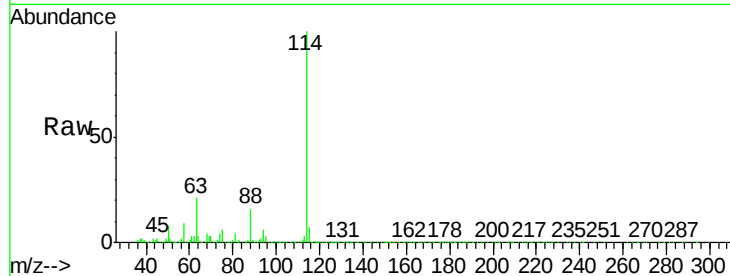
Tgt Ion:114 Resp: 752273

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

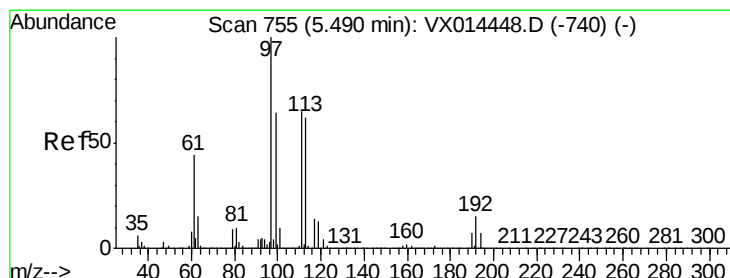
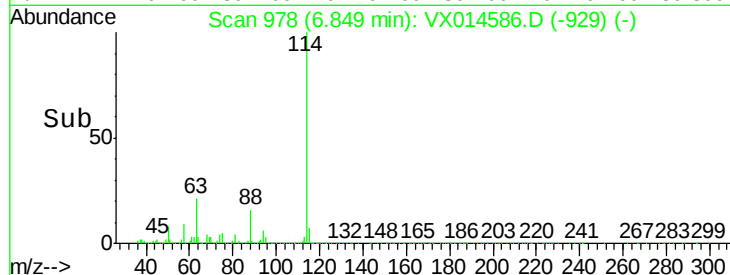
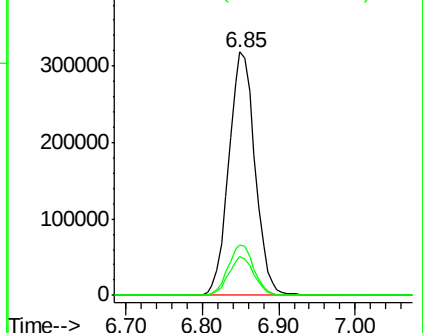
88 16.0 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.831 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

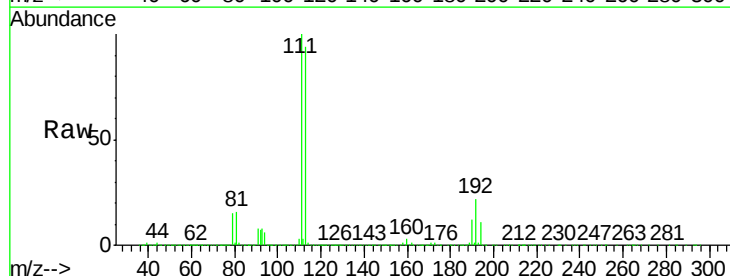
Tgt Ion:113 Resp: 226922

Ion Ratio Lower Upper

113 100

111 103.6 81.5 122.3

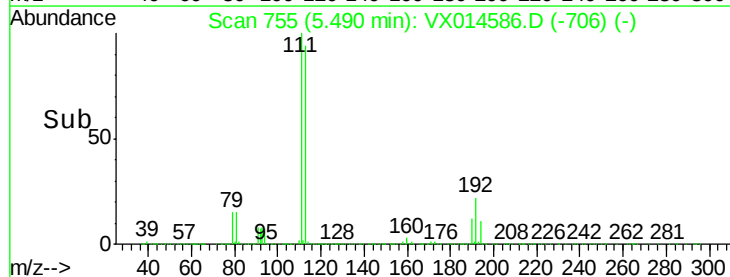
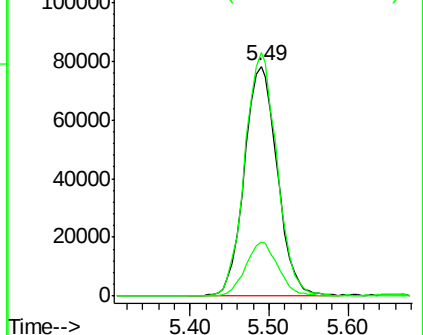
192 22.9 19.2 28.8

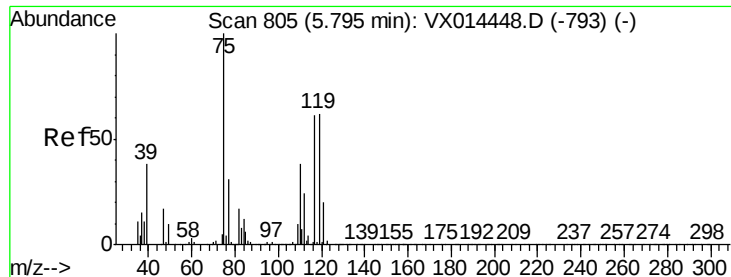


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

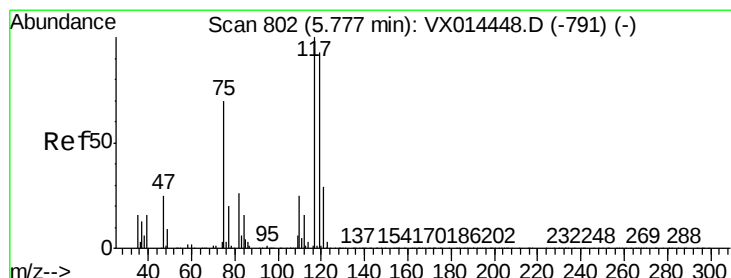
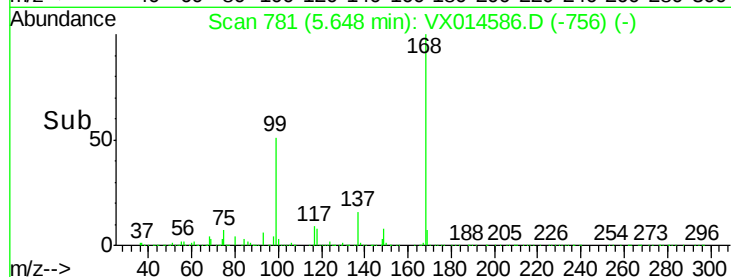
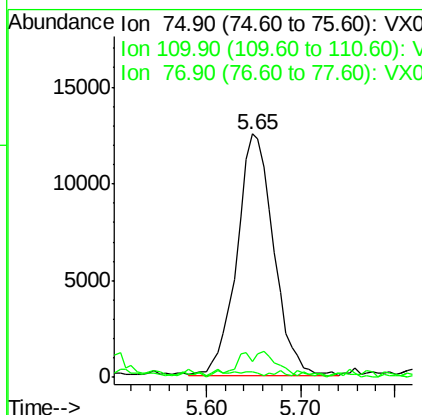
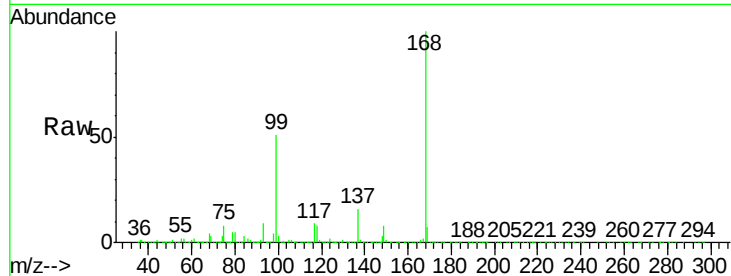




#36
 1,1-Dichloropropene
 Concen: 4.840 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014586.D
 Acq: 13 Jan 2020 14:58

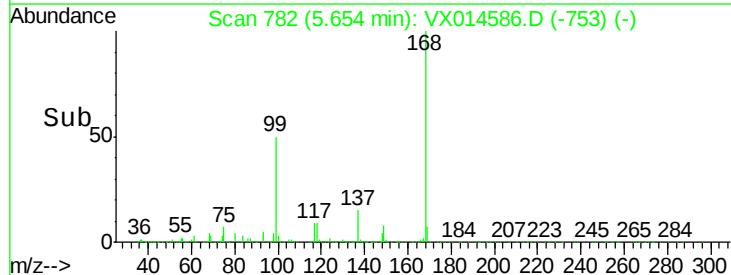
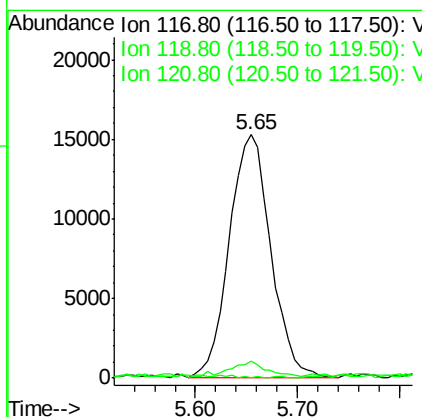
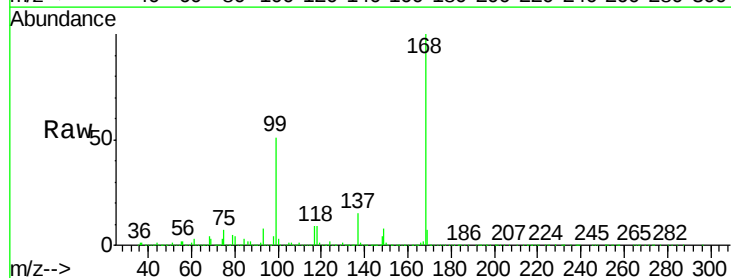
Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-WC-SB-BC-04

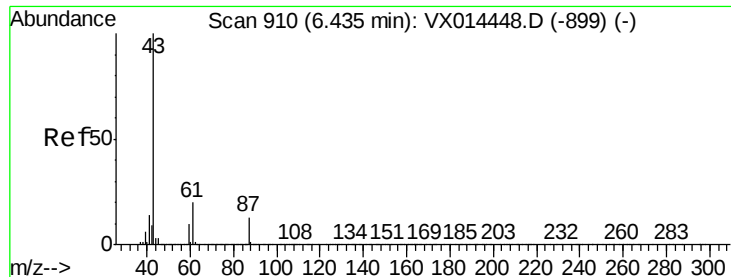
Tgt Ion: 75 Resp: 34238
 Ion Ratio Lower Upper
 75 100
 110 5.1 18.6 55.8#
 77 0.6 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 6.644 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014586.D
 Acq: 13 Jan 2020 14:58

Tgt Ion: 117 Resp: 43256
 Ion Ratio Lower Upper
 117 100
 119 5.8 73.8 110.8#
 121 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 9.742 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

CIY1-WC-SB-BC-04

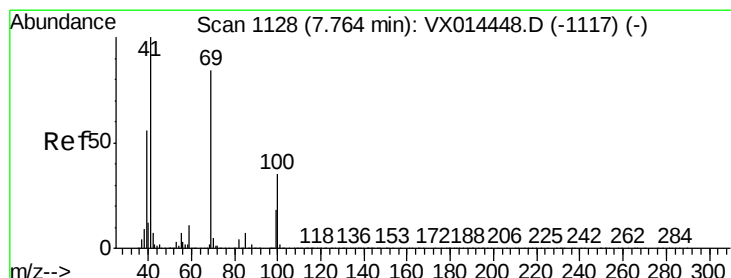
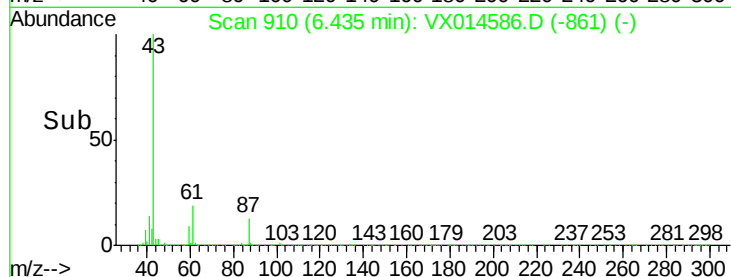
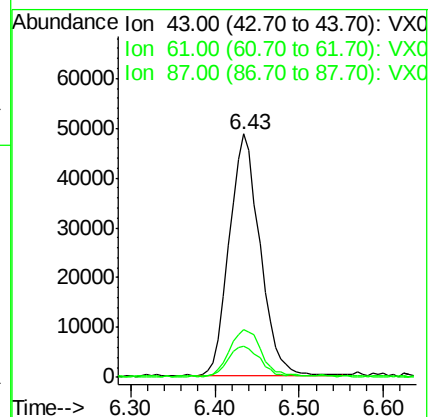
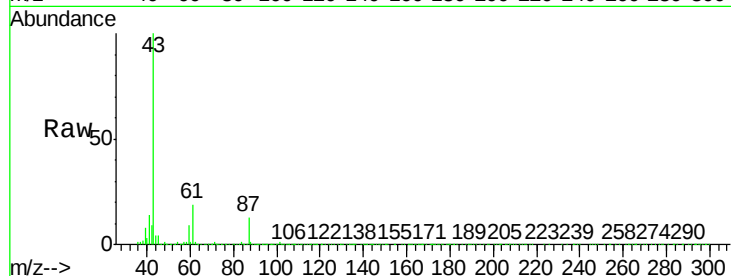
Tgt Ion: 43 Resp: 120935

Ion Ratio Lower Upper

43 100

61 20.0 16.6 24.8

87 13.3 10.8 16.2



#48

Methyl methacrylate

Concen: 30.493 ug/l

RT: 7.87 min Scan# 1145

Delta R.T. 0.10 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

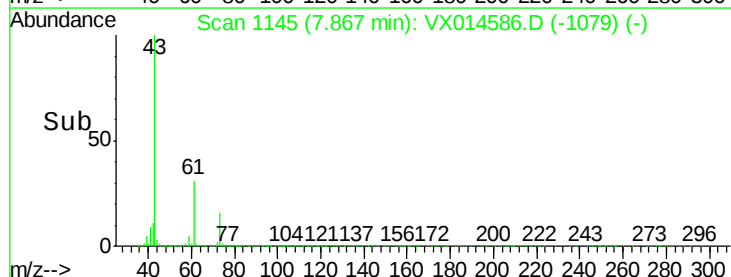
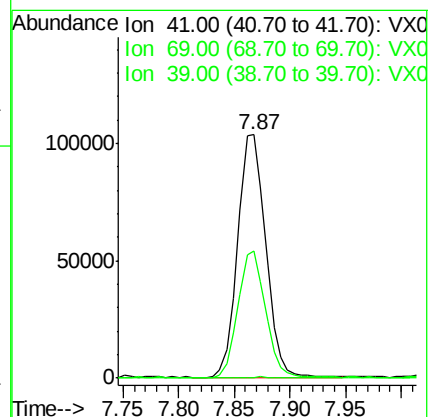
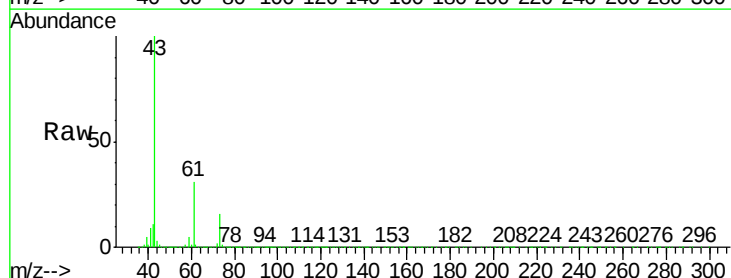
Tgt Ion: 41 Resp: 181292

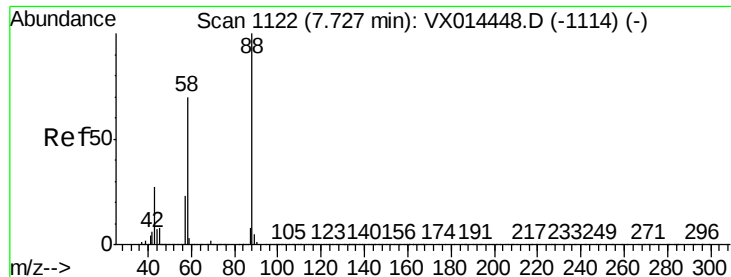
Ion Ratio Lower Upper

41 100

69 0.2 65.5 98.3#

39 51.3 43.9 65.9

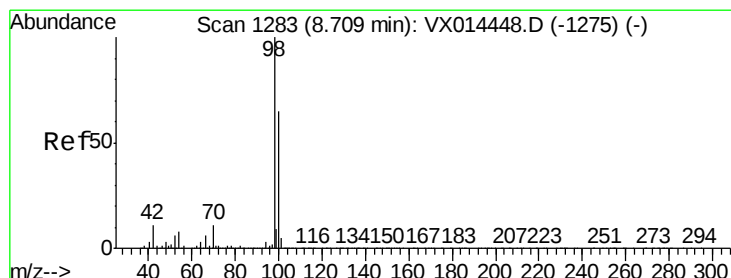
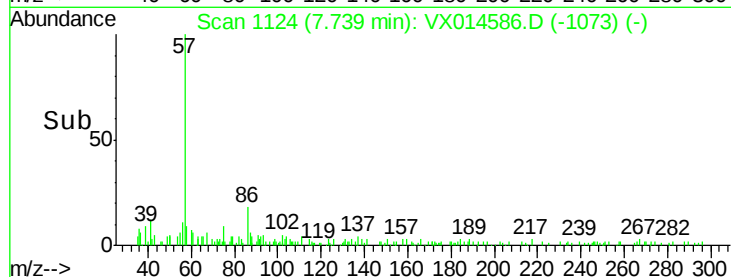
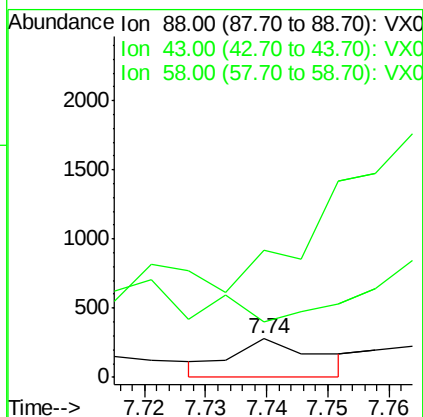
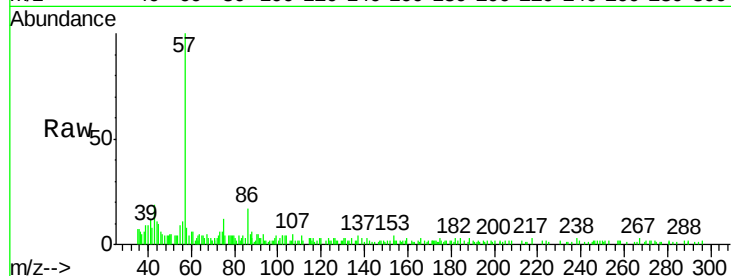




#49
1,4-Dioxane
Concen: 2.143 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

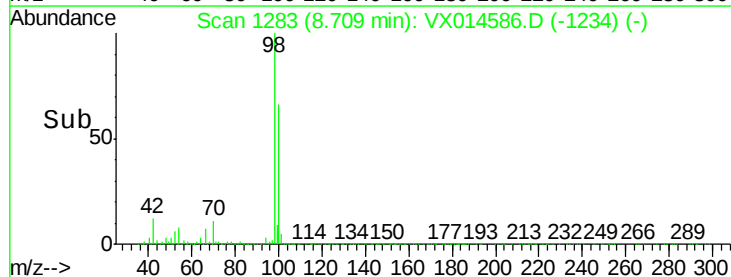
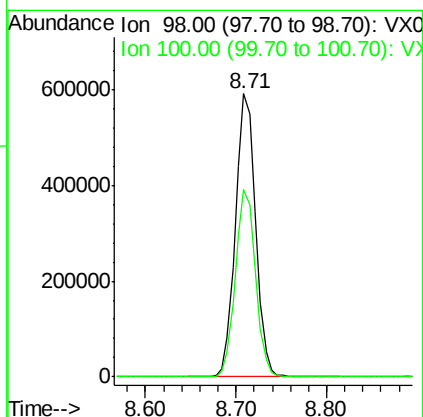
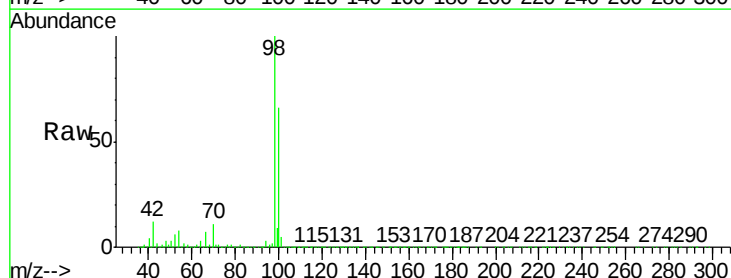
Instrument :
MSVOA_X
ClientSampleId :
CIY1-WC-SB-BC-04

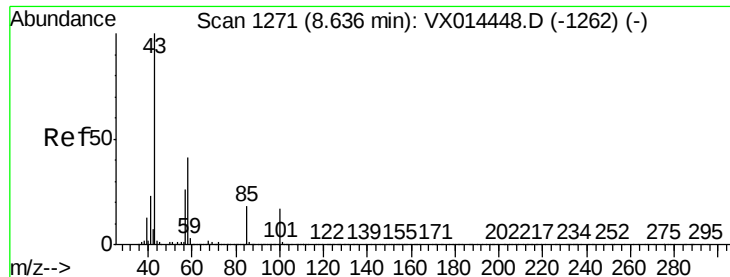
Tgt Ion: 88 Resp: 270
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 51.667 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

Tgt Ion: 98 Resp: 913057
Ion Ratio Lower Upper
98 100
100 65.7 53.2 79.8

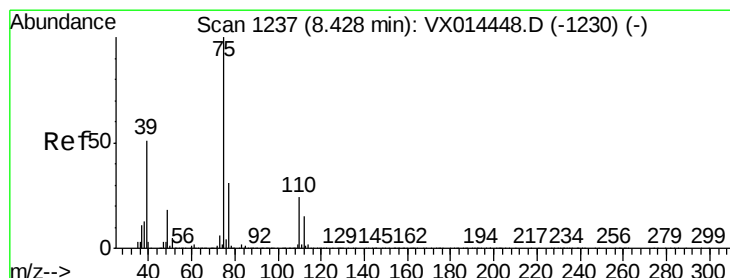
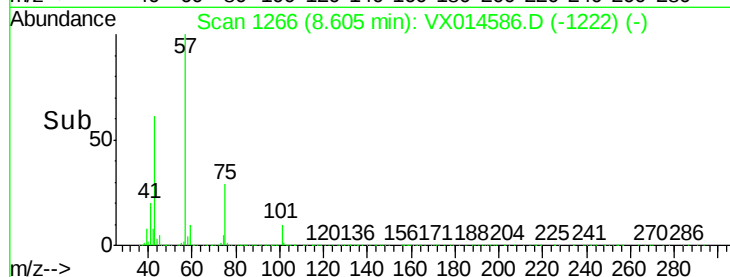
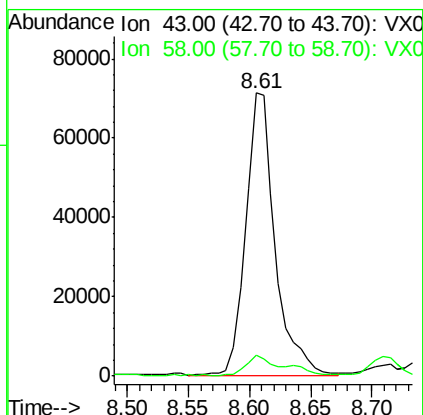
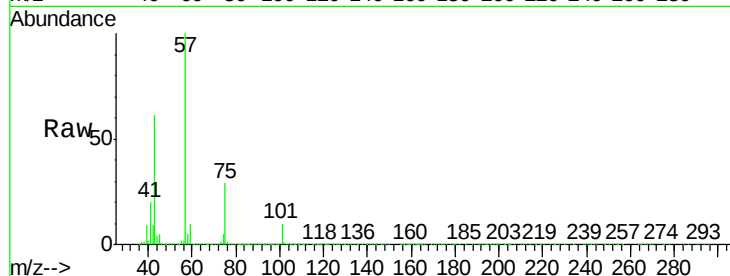




#51
 4-Methyl-2-Pentanone
 Concen: 15.650 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX014586.D
 Acq: 13 Jan 2020 14:58

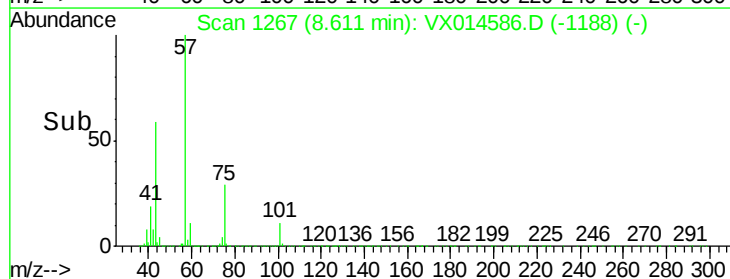
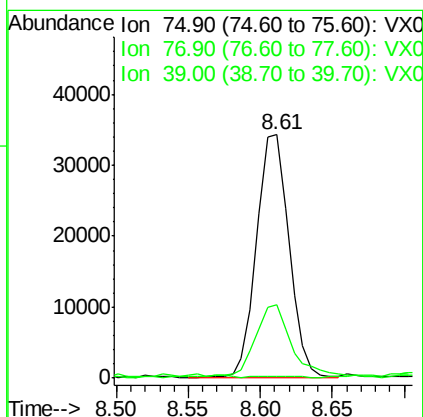
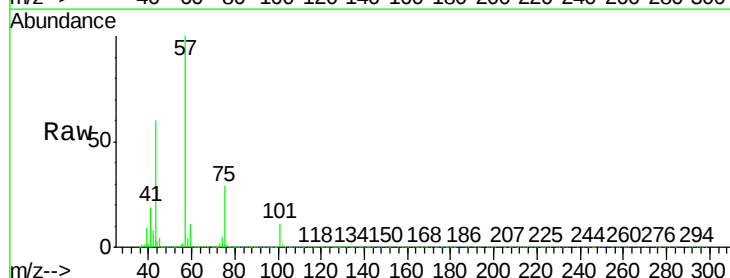
Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-WC-SB-BC-04

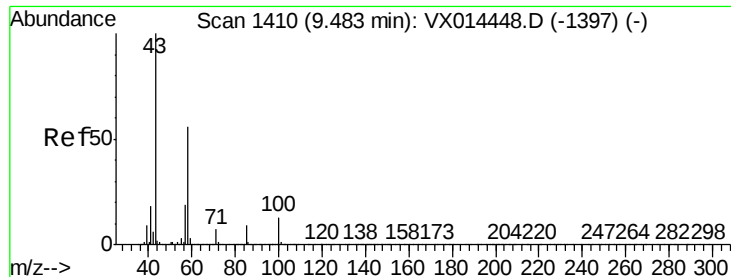
Tgt Ion: 43 Resp: 118386
 Ion Ratio Lower Upper
 43 100
 58 9.4 32.4 48.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.262 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014586.D
 Acq: 13 Jan 2020 14:58

Tgt Ion: 75 Resp: 53537
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.0 37.4#
 39 29.1 40.7 61.1#

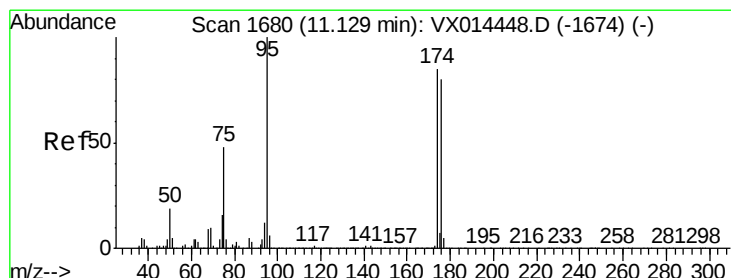
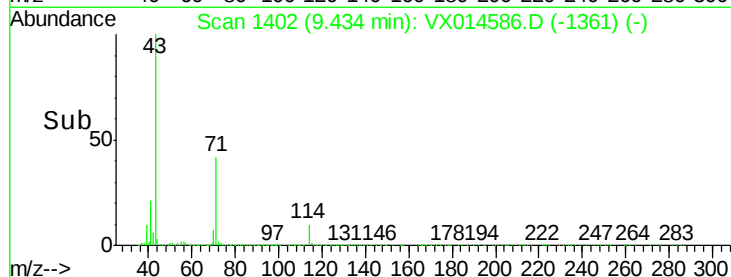
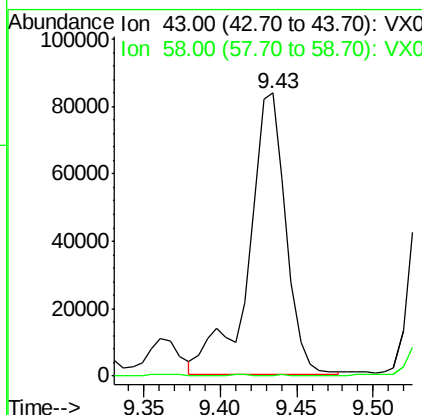
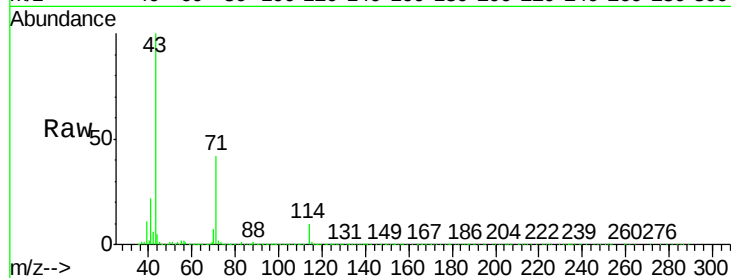




#59
2-Hexanone
Concen: 23.800 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

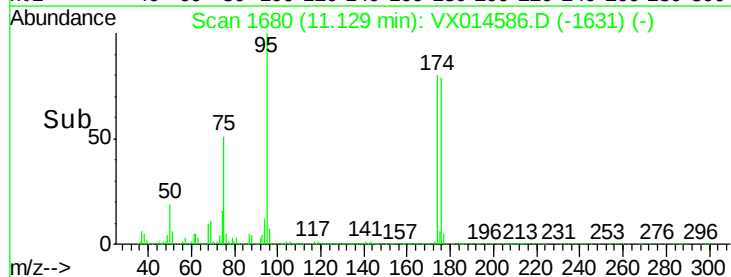
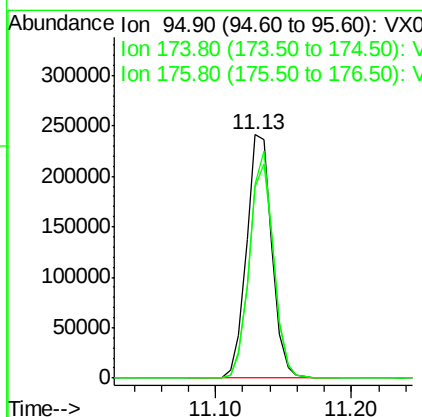
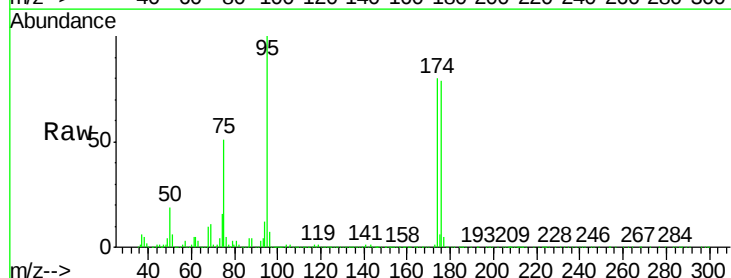
Instrument :
MSVOA_X
ClientSampleId :
CIY1-WC-SB-BC-04

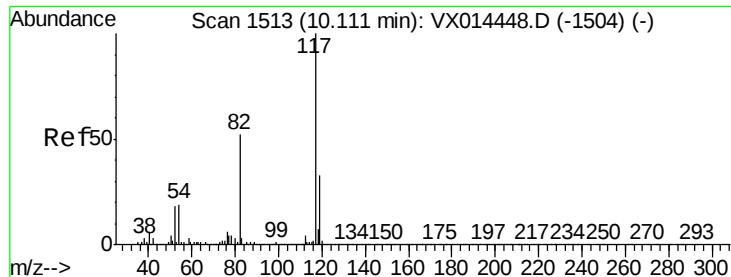
Tgt Ion: 43 Resp: 142452
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 48.289 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

Tgt Ion: 95 Resp: 313275
Ion Ratio Lower Upper
95 100
174 88.7 0.0 180.8
176 86.2 0.0 172.8

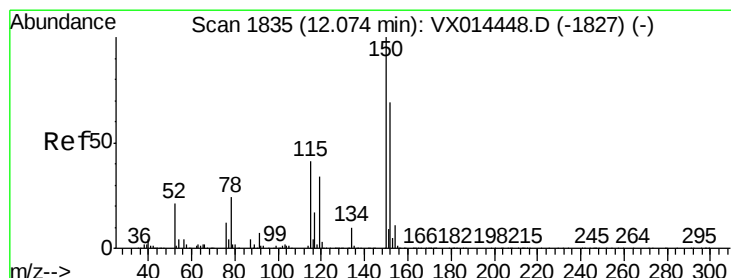
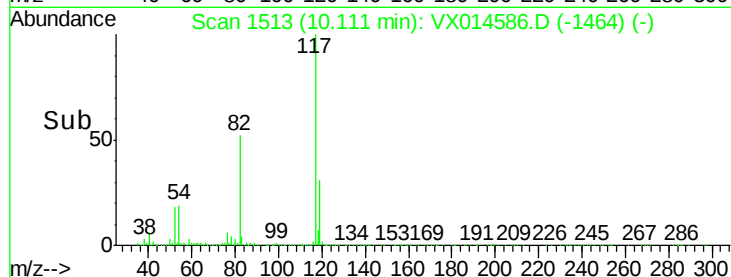
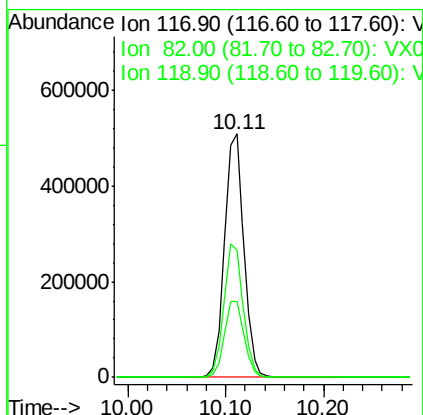
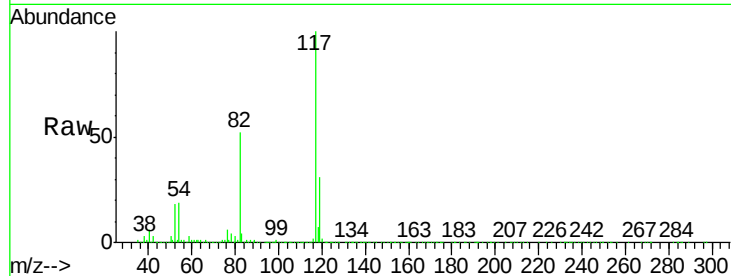




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

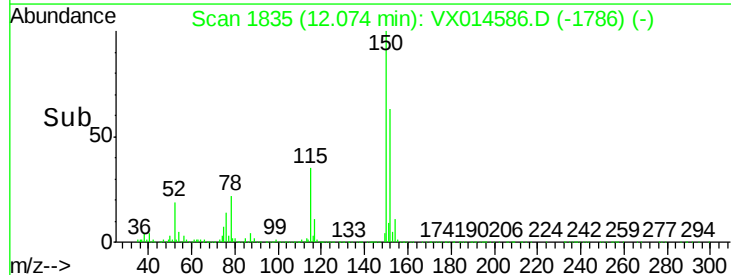
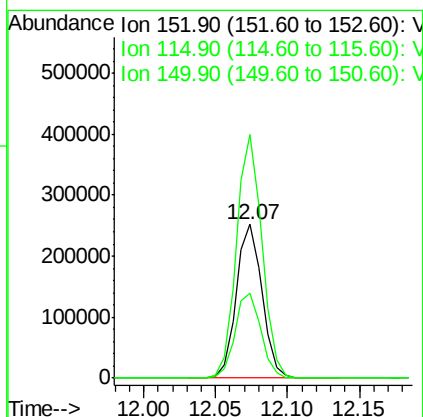
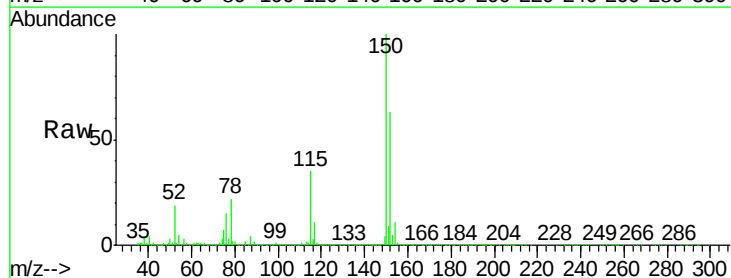
Instrument :
MSVOA_X
ClientSampleId :
CIY1-WC-SB-BC-04

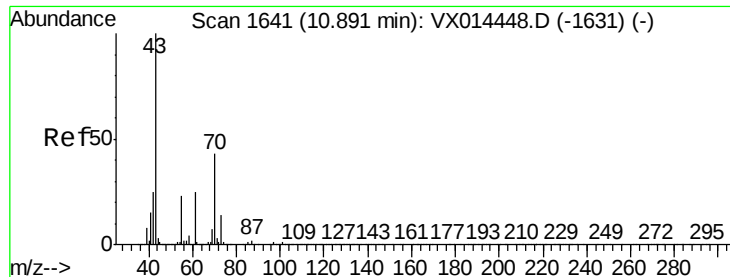
Tgt Ion:117 Resp: 698095
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.6
119 31.3 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014586.D
Acq: 13 Jan 2020 14:58

Tgt Ion:152 Resp: 314457
Ion Ratio Lower Upper
152 100
115 55.8 39.5 118.3
150 156.9 0.0 350.2





#74

N-amyI acetate

Concen: 0.526 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

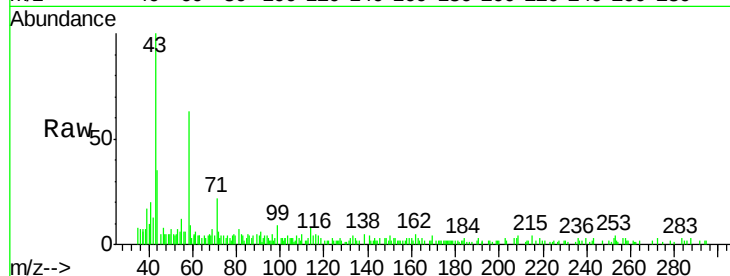
Instrument :

MSVOA_X

ClientSampleId :

CIY1-WC-SB-BC-04

Tgt Ion:	43	Resp:	5127
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.1	52.7#
55	4.4	19.3	28.9#
61	9.0	20.0	30.0#

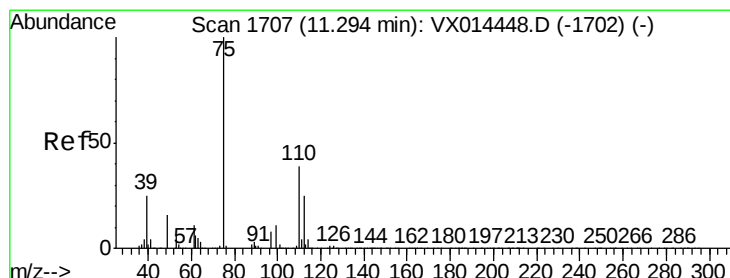
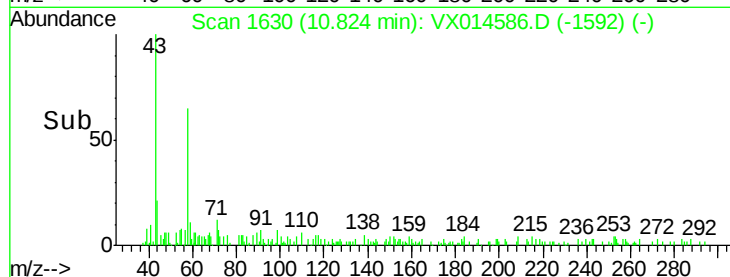
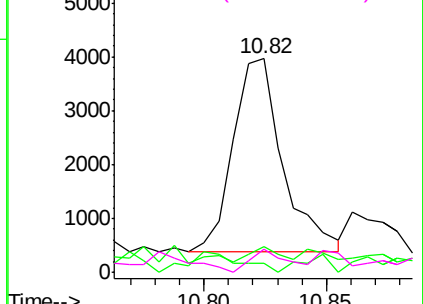


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.397 ug/l

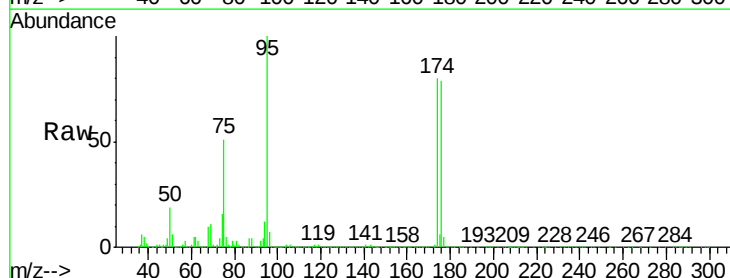
RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014586.D

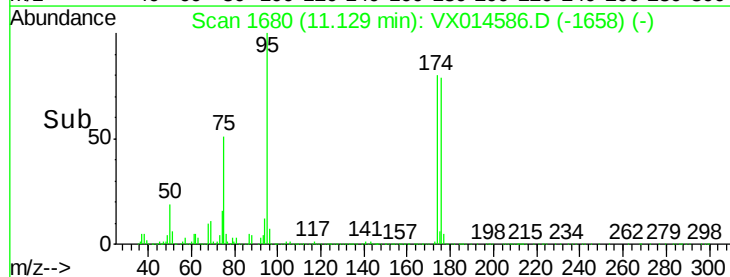
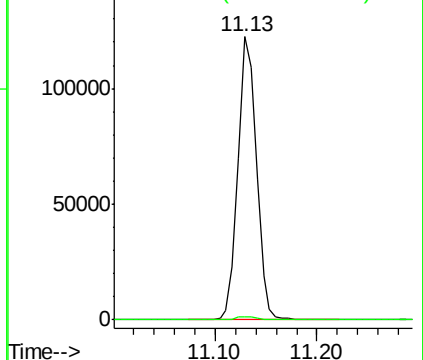
Acq: 13 Jan 2020 14:58

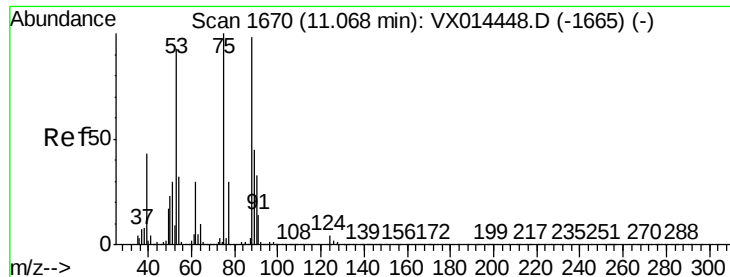
Tgt Ion:	75	Resp:	152223
Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.9	65.7#



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: 61.856 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

Instrument :

MSVOA_X

ClientSampleId :

CIY1-WC-SB-BC-04

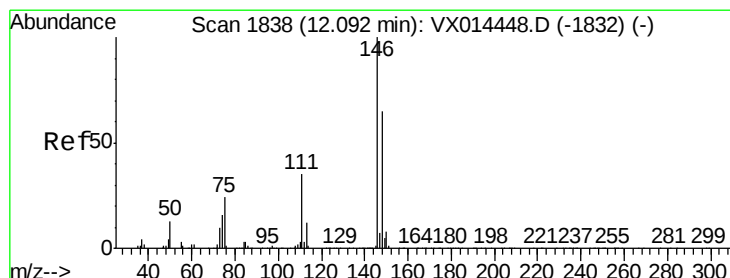
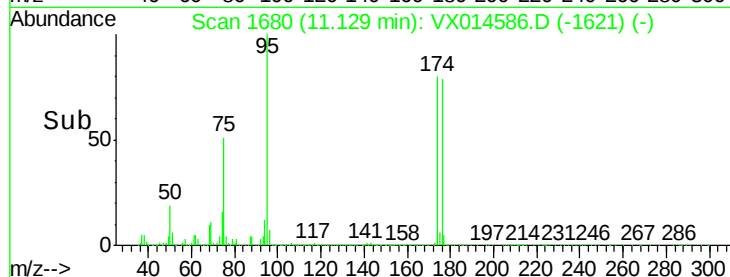
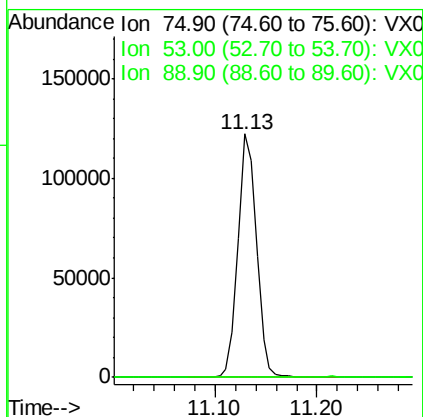
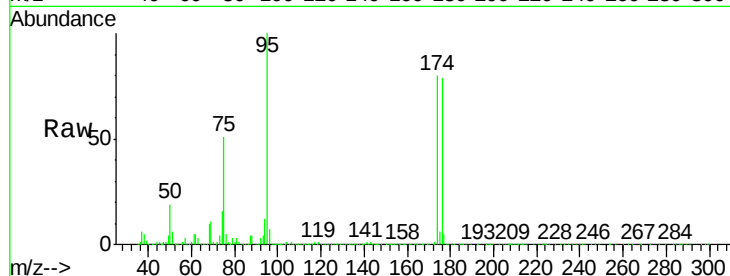
Tgt Ion: 75 Resp: 152223

Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.0 36.3 54.5#



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VX014586.D

Acq: 13 Jan 2020 14:58

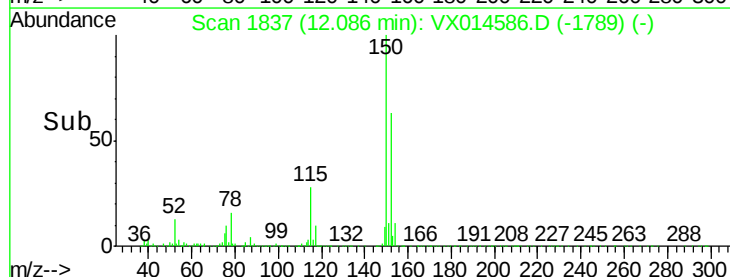
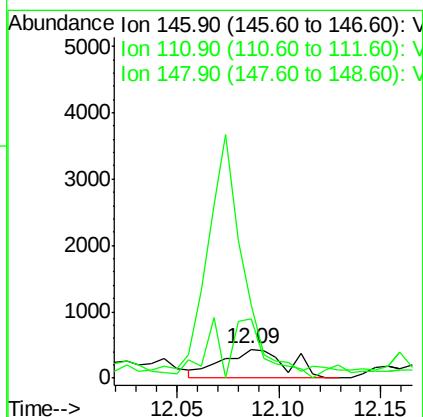
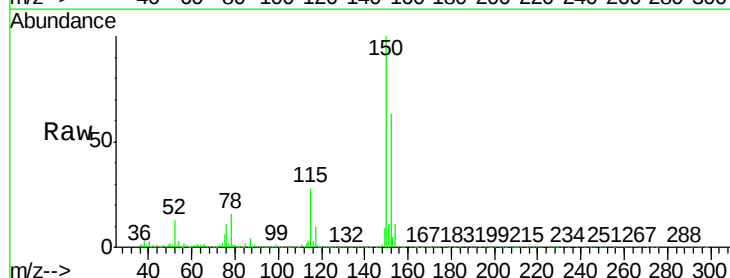
Tgt Ion: 146 Resp: 956

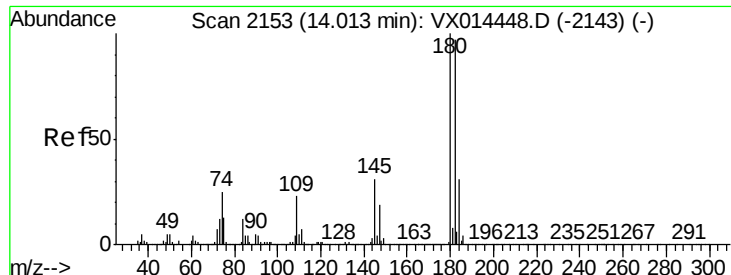
Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

148 98.5 32.1 96.3#





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.01 min Scan# 2152
 Delta R.T. -0.01 min
 Lab File: VX014586.D
 Acq: 13 Jan 2020 14:58

Instrument :
 MSVOA_X
 ClientSampleId :
 CIY1-WC-SB-BC-04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	69.1	47.9	143.6
145	41.4	14.8	44.3

