

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002754.D
 Acq On : 20 Jun 2018 20:47
 Operator : JC/MD
 Sample : J3597-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 04:01:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	305545	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	282385	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	165324	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	145125	43.68	ug/l	0.00
Spiked Amount			Recovery	=	87.36%	
35) Dibromofluoromethane	5.51	113	119905	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	8.72	98	426574	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	
62) 4-Bromofluorobenzene	11.14	95	152207	43.38	ug/l	0.00
Spiked Amount			Recovery	=	86.76%	

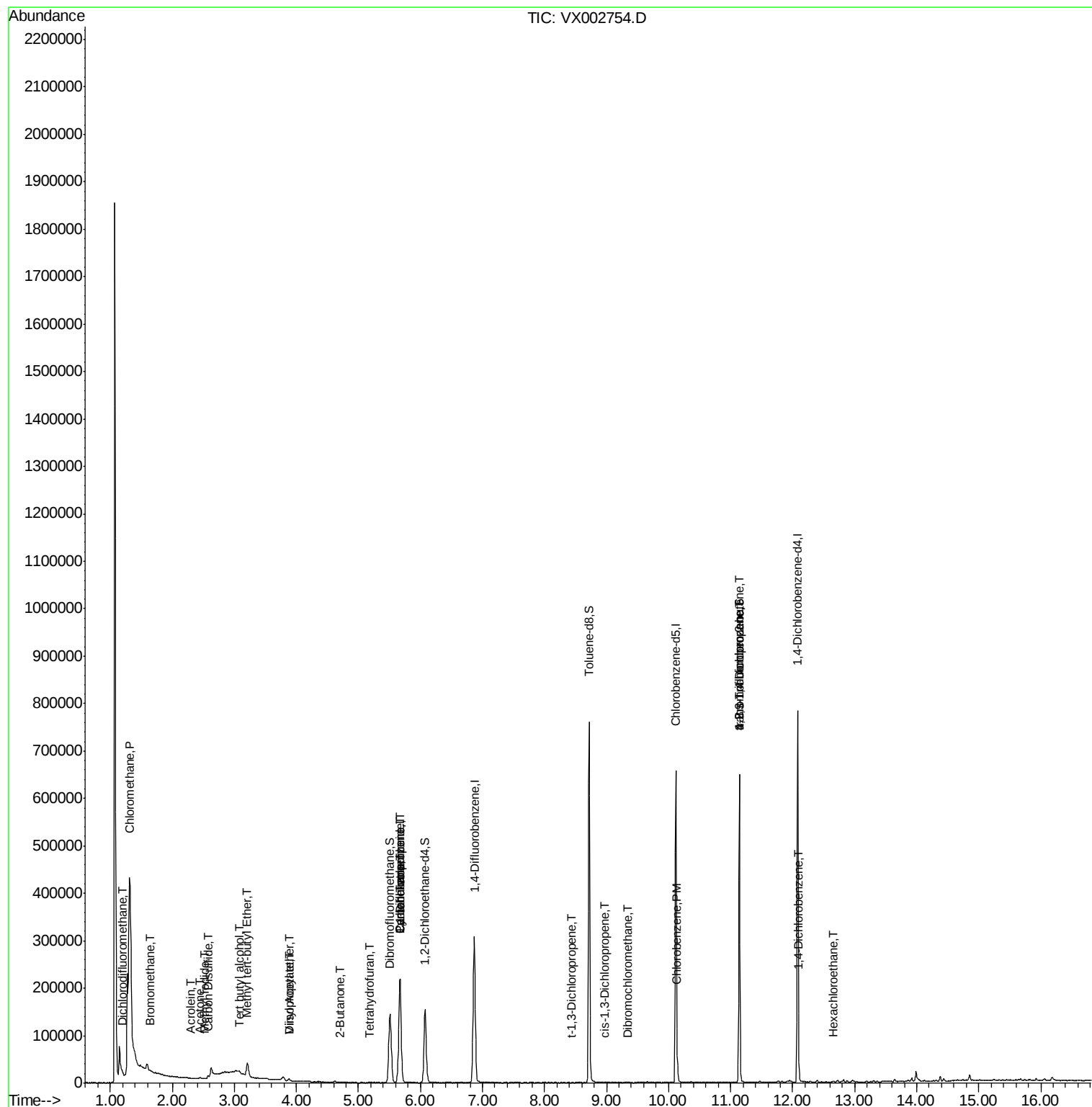
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	555	0.24	ug/l	97
3) Chloromethane	1.31	50	16231	5.88	ug/l #	46
5) Bromomethane	1.65	94	1073	0.62	ug/l #	59
10) Methyl Iodide	2.52	142	1210	5.49	ug/l #	85
11) Tert butyl alcohol	3.08	59	3449	5.02	ug/l #	75
13) Acrolein	2.30	56	228	7.55	ug/l #	37
16) Acetone	2.45	43	1552	1.06	ug/l #	69
17) Carbon Disulfide	2.57	76	10743	1.85	ug/l	96
19) Methyl tert-butyl Ether	3.21	73	29379	3.21	ug/l	97
22) Diisopropyl ether	3.88	45	4690	0.53	ug/l #	88
23) Vinyl Acetate	3.88	43	2221	0.30	ug/l #	75
25) 2-Butanone	4.71	43	796	0.41	ug/l #	52
29) Tetrahydrofuran	5.17	42	523	0.41	ug/l #	74
31) Cyclohexane	5.67	56	4297	1.10	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14890	4.59	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19511	6.04	ug/l #	16
53) t-1,3-Dichloropropene	8.44	75	54	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	8.96	75	28	3.22	ug/l #	32
60) Dibromochloromethane	9.34	129	20	3.77	ug/l #	11
65) Chlorobenzene	10.14	112	13952	2.01	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	79953	25.63	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79953	79.33	ug/l #	7
88) 1,4-Dichlorobenzene	12.10	146	5276	0.92	ug/l #	63
90) Hexachloroethane	12.66	117	78	2.67	ug/l #	1

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

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QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

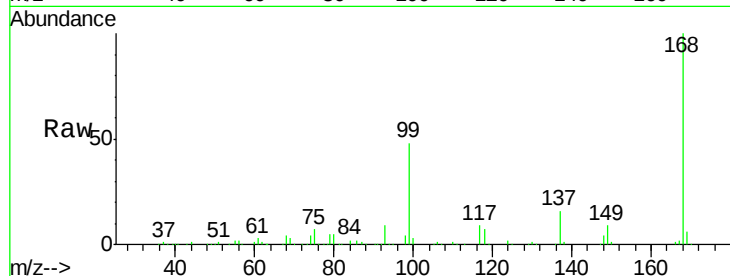
ClientSampled :

Tot Ion:168 Resp: 218655

Ion Ratio Lower Upper

168 100

99 47.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

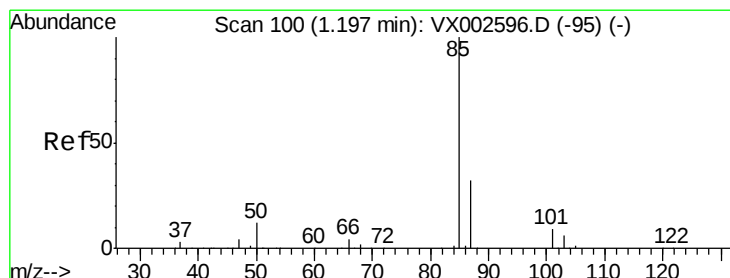
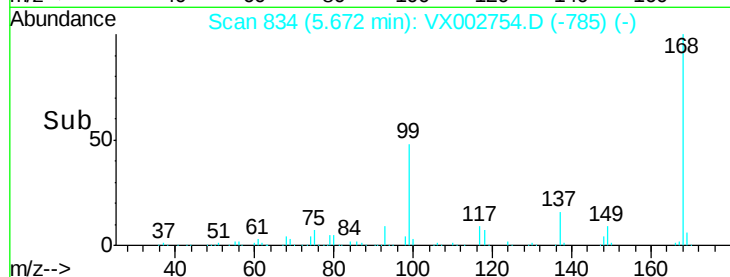
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.24 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002754.D

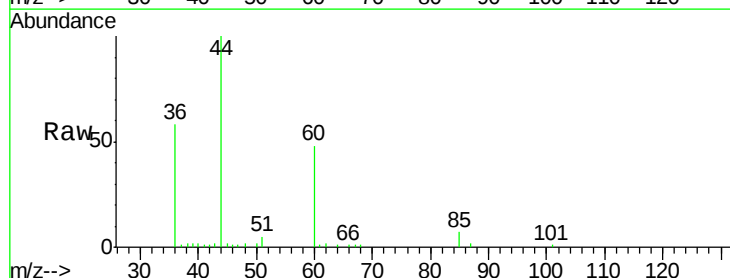
Acq: 20 Jun 2018 20:47

Tgt Ion: 85 Resp: 555

Ion Ratio Lower Upper

85 100

87 33.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

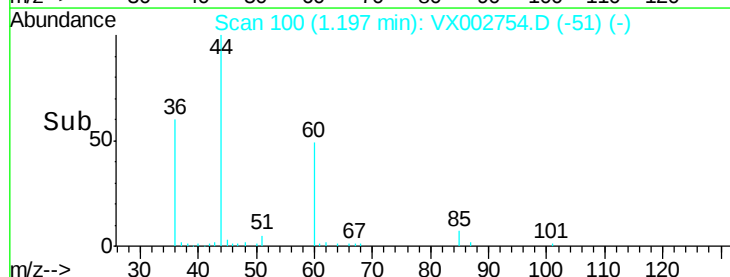
600

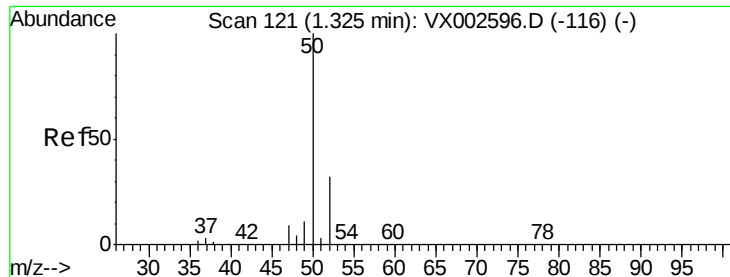
400

200

0

Time--> 1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 5.88 ug/l

RT: 1.31 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

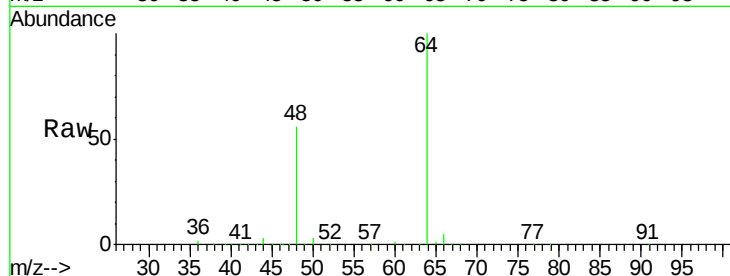
ClientSampleId :

Tot Ion: 50 Resp: 16231

Ion Ratio Lower Upper

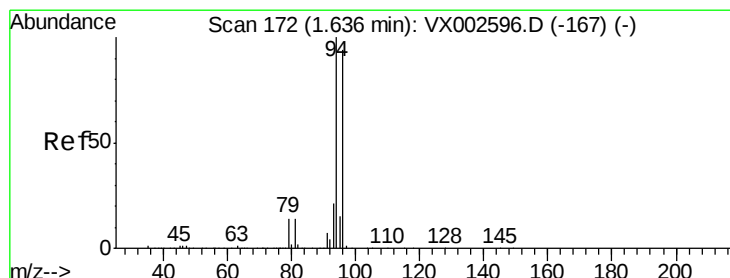
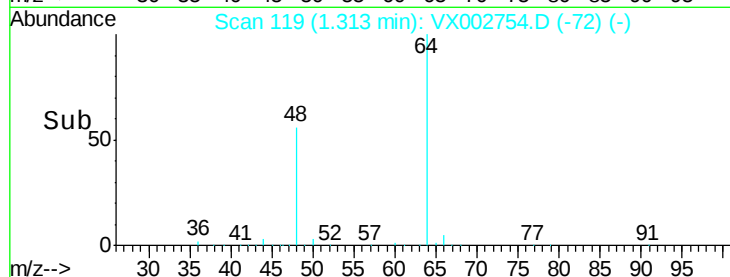
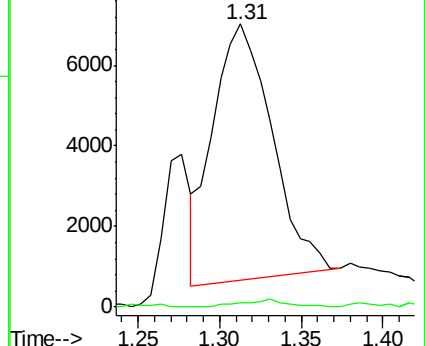
50 100

52 1.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.62 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002754.D

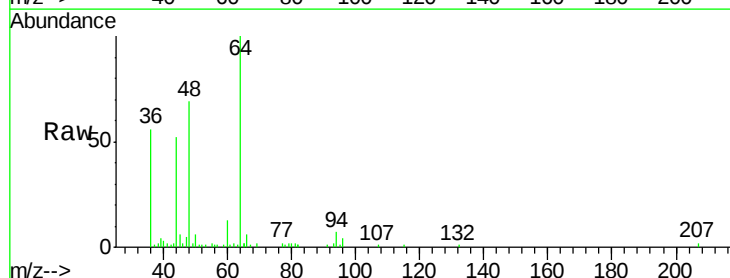
Acq: 20 Jun 2018 20:47

Tgt Ion: 94 Resp: 1073

Ion Ratio Lower Upper

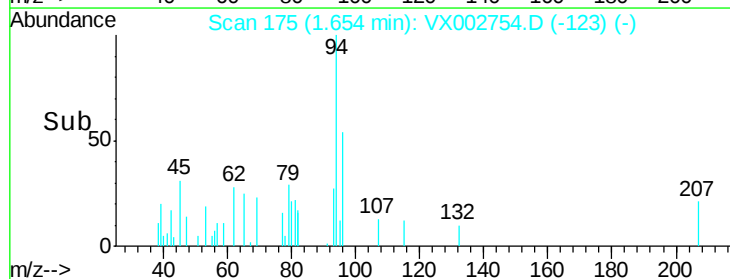
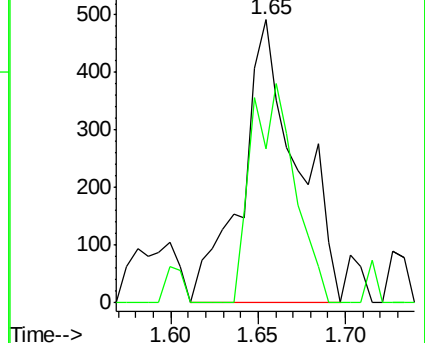
94 100

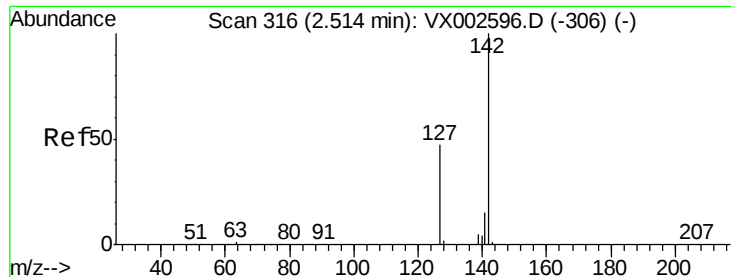
96 54.3 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

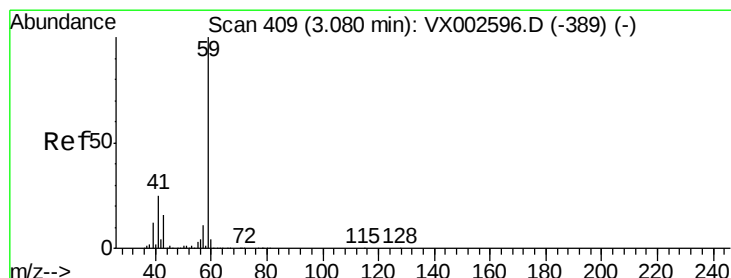
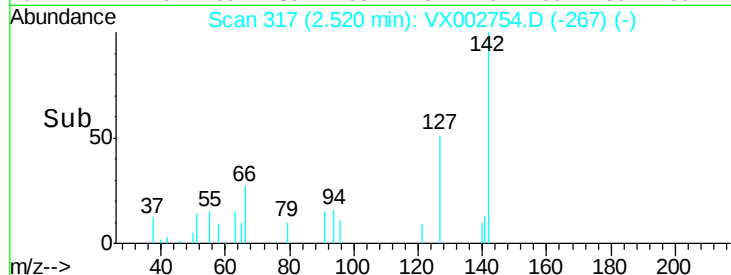
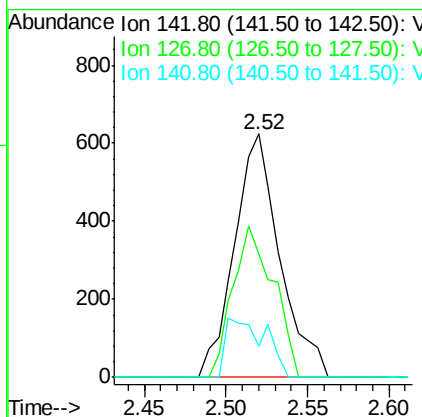
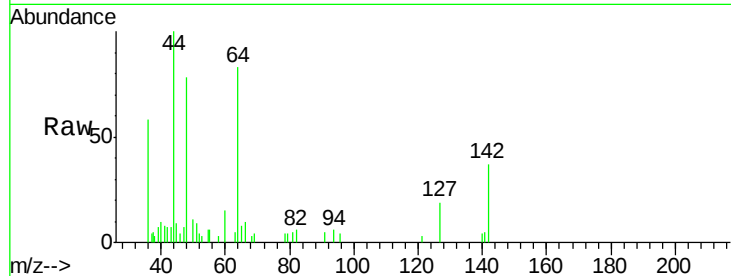




#10
Methvl Iodide
Concen: 5.49 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

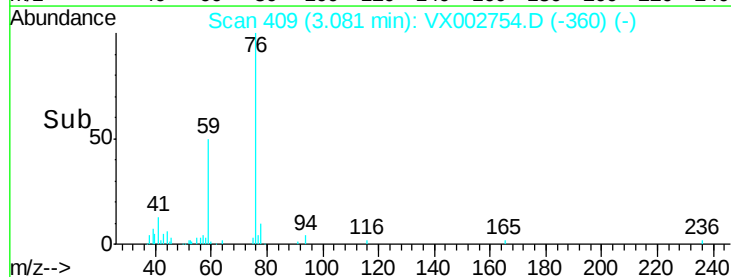
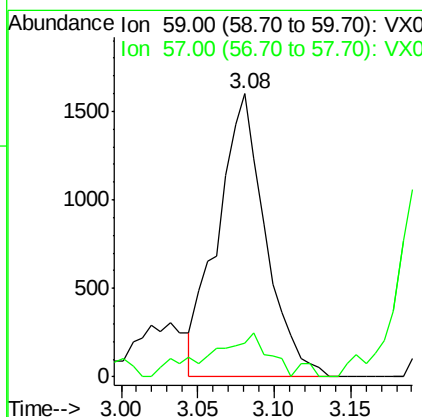
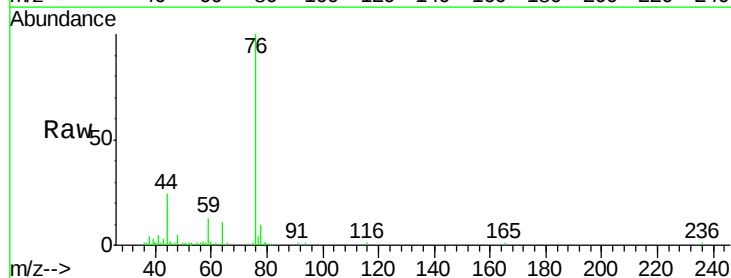
Instrument :
MSVOA_X
ClientSampleId :

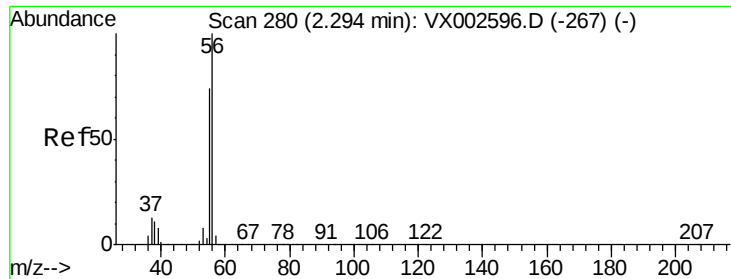
Tot Ion:142 Resp: 1210
Ion Ratio Lower Upper
142 100
127 55.5 36.6 55.0#
141 21.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 5.02 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion: 59 Resp: 3449
Ion Ratio Lower Upper
59 100
57 19.4 8.2 12.2#





#13

Acrolein

Concen: 7.55 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

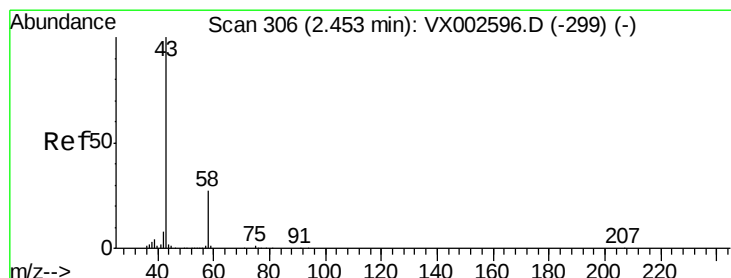
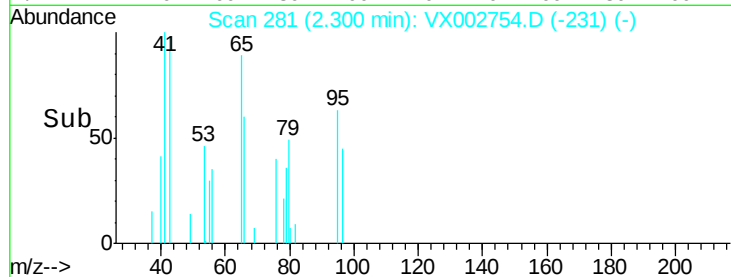
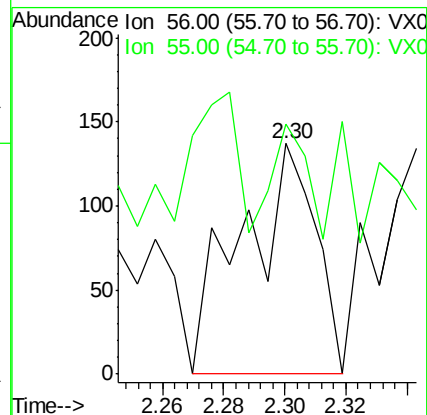
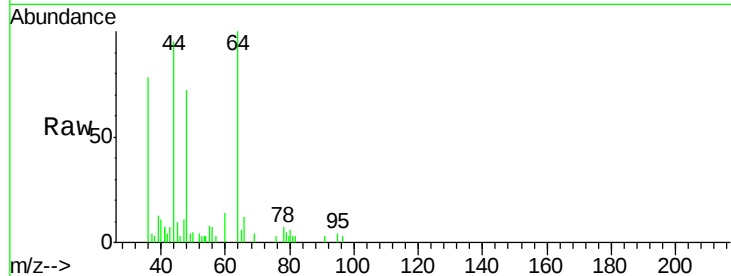
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 228

Ion Ratio Lower Upper

56 100

55 19.3 57.0 85.4#



#16

Acetone

Concen: 1.06 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002754.D

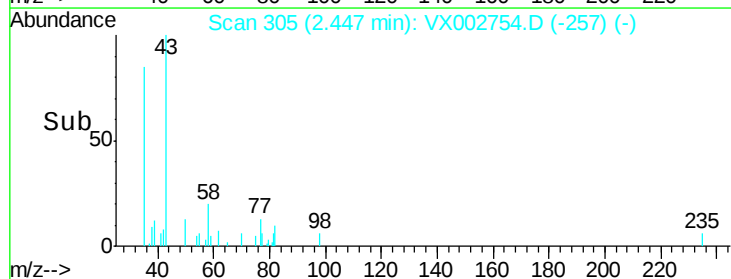
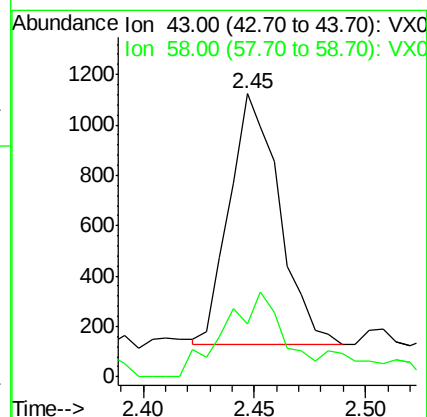
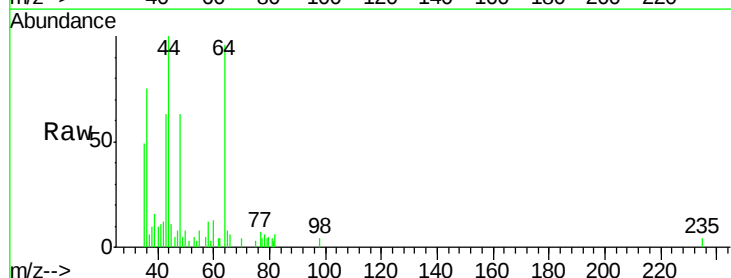
Acq: 20 Jun 2018 20:47

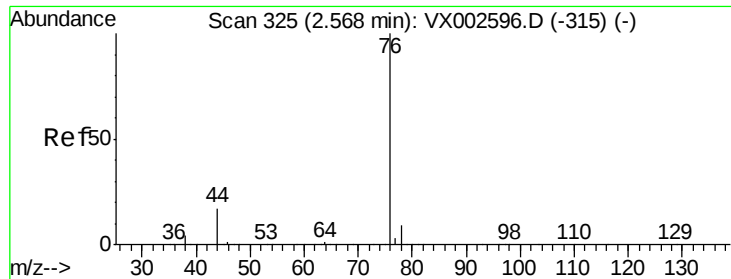
Tgt Ion: 43 Resp: 1552

Ion Ratio Lower Upper

43 100

58 11.6 22.1 33.1#

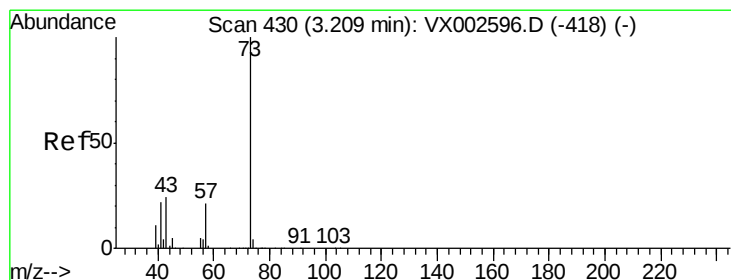
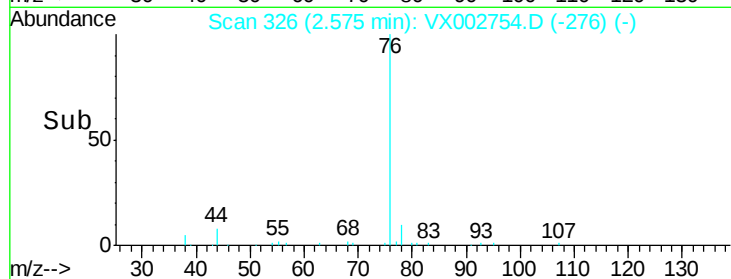
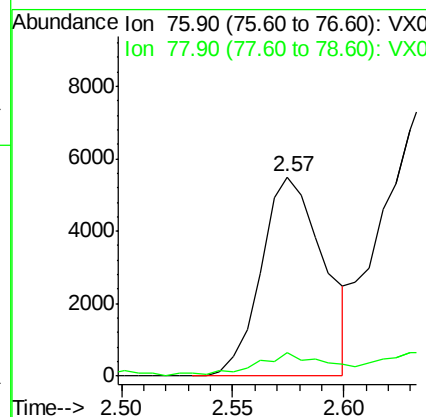
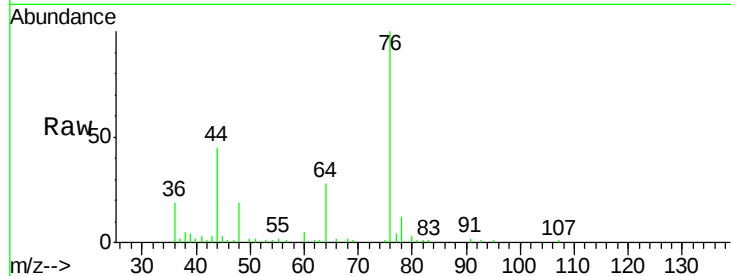




#17
Carbon Disulfide
Concen: 1.85 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

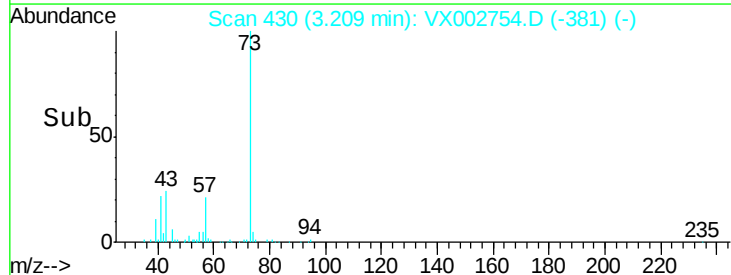
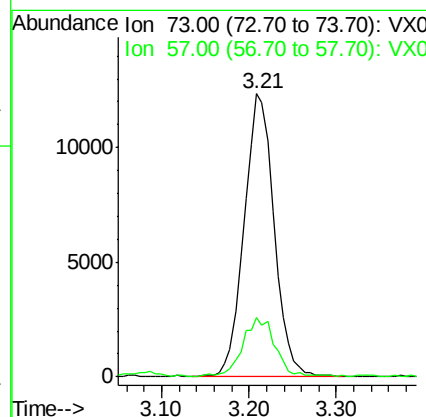
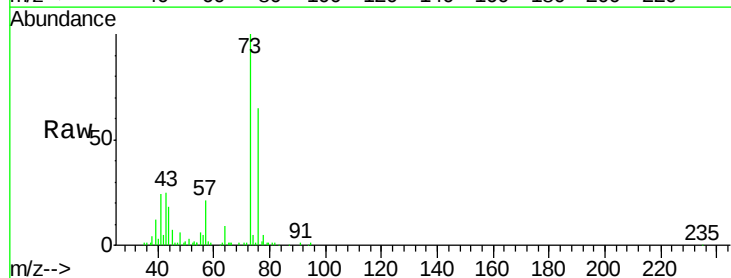
Instrument :
MSVOA_X
ClientSampleId :

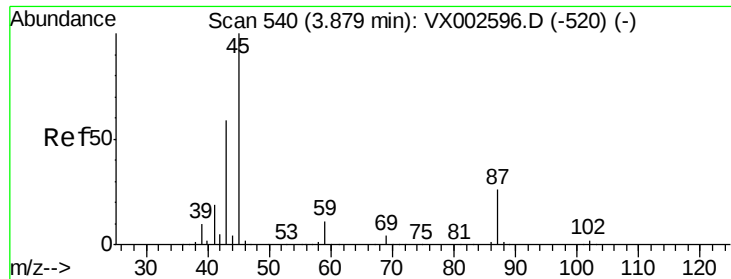
Tot Ion: 76 Resp: 10743
Ion Ratio Lower Upper
76 100
78 10.2 6.9 10.3



#19
Methyl tert-butyl Ether
Concen: 3.21 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion: 73 Resp: 29379
Ion Ratio Lower Upper
73 100
57 20.8 17.7 26.5

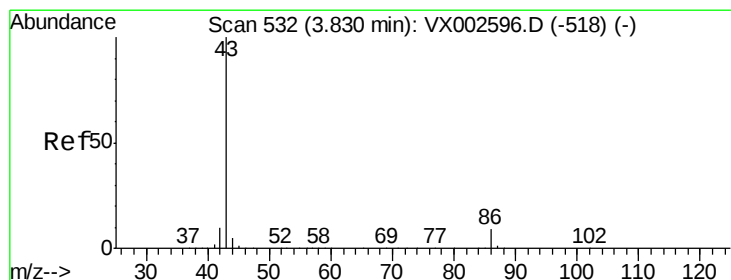
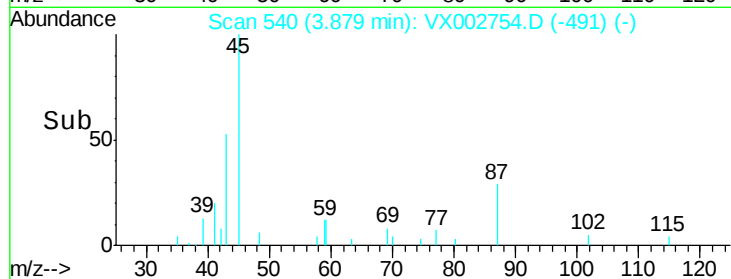
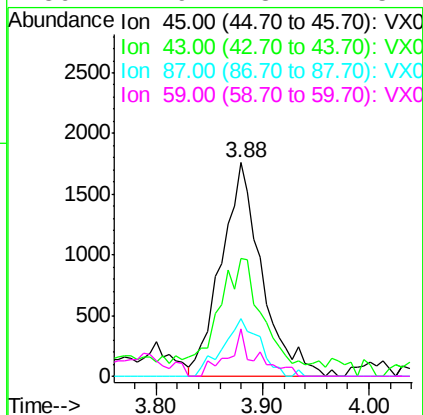
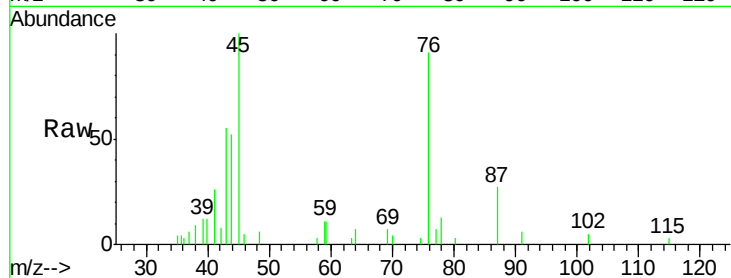




#22
Diisopropyl ether
Concen: 0.53 ug/l
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

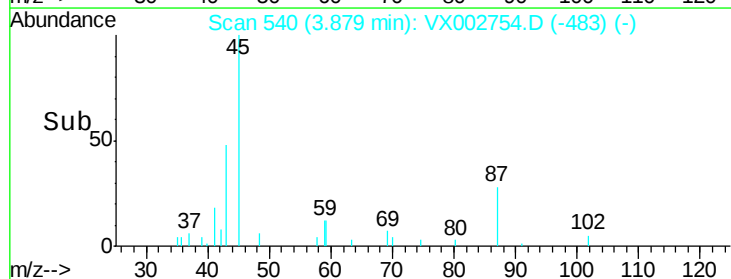
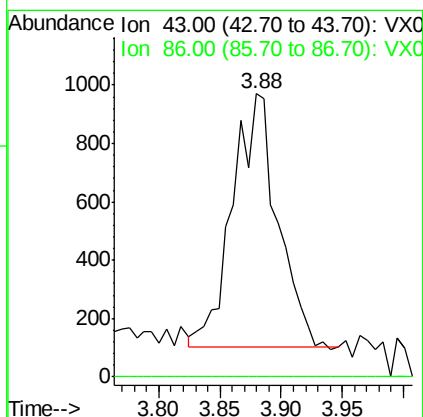
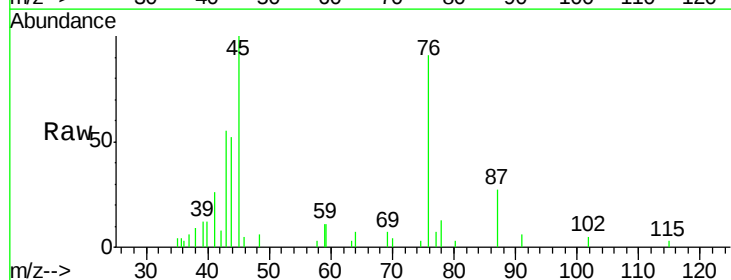
Instrument :
MSVOA_X
ClientSampled :

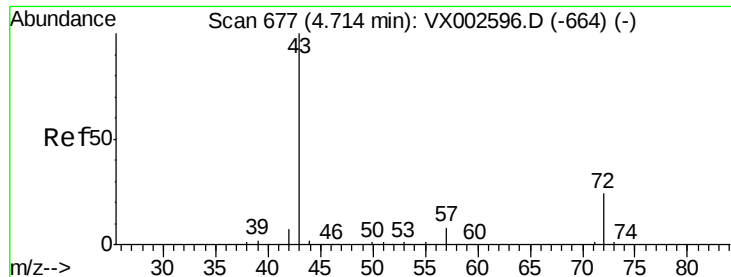
Tot Ion:	45	Resp:	4690
Ion	Ratio	Lower	Upper
45	100		
43	49.7	46.8	70.2
87	27.8	20.2	30.4
59	22.9	8.7	13.1#



#23
Vinyl Acetate
Concen: 0.30 ug/l
RT: 3.88 min Scan# 540
Delta R.T. 0.05 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion:	43	Resp:	2221
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.4	11.0#





#25

2-Butanone

Concen: 0.41 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

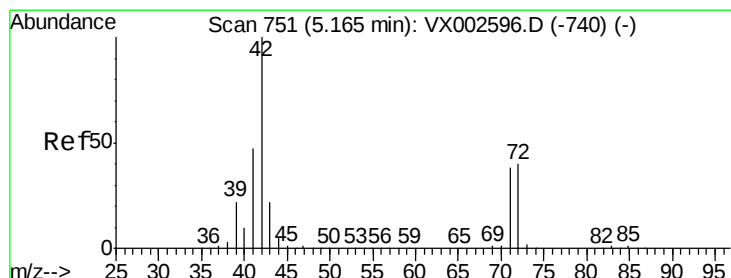
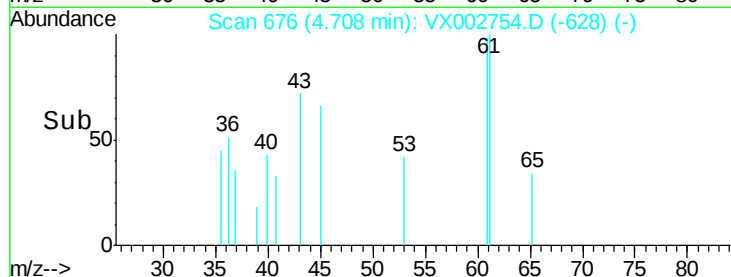
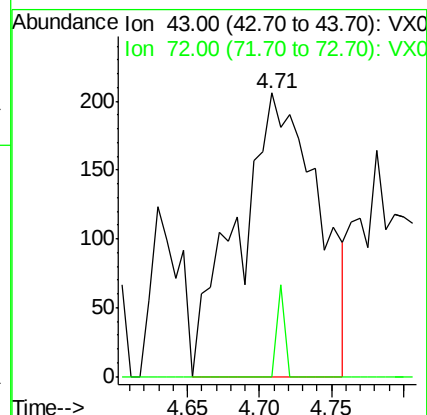
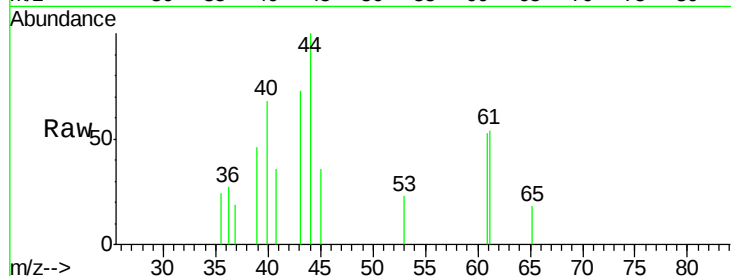
ClientSampled :

Tot Ion: 43 Resp: 796

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

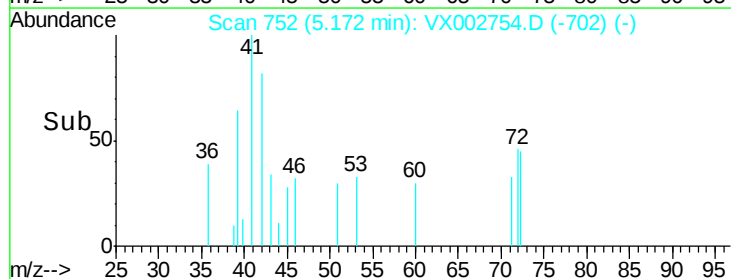
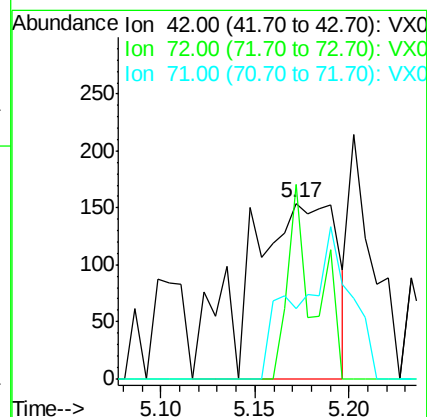
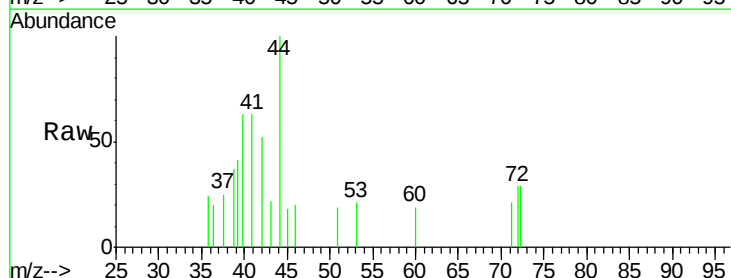
Tgt Ion: 42 Resp: 523

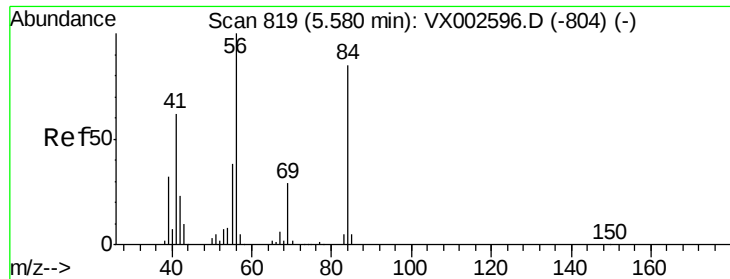
Ion Ratio Lower Upper

42 100

72 31.7 32.0 48.0#

71 14.1 30.1 45.1#

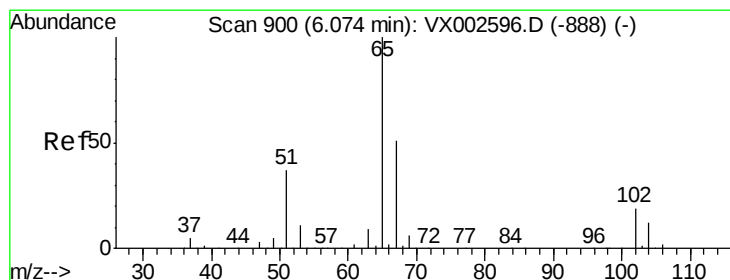
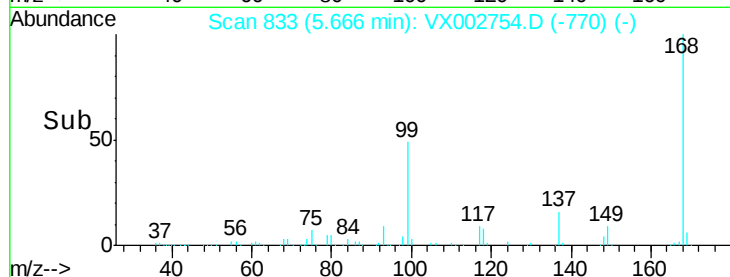
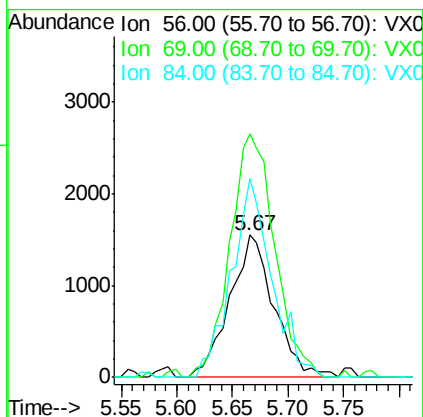
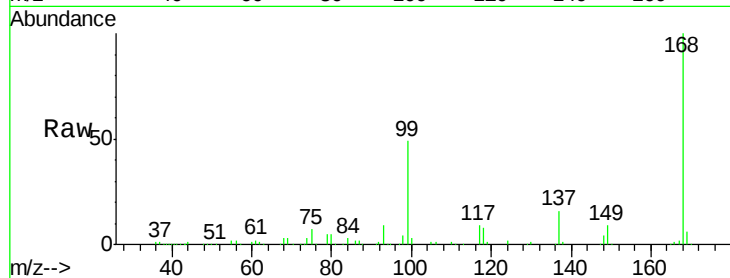




#31
Cyclohexane
Concen: 1.10 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

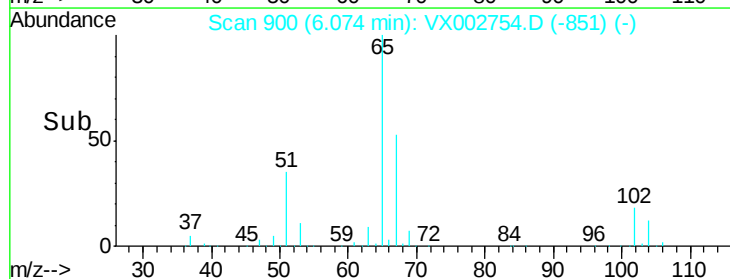
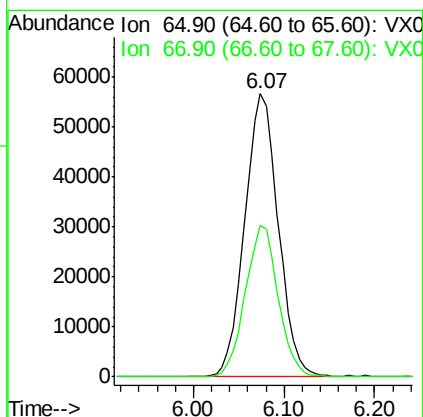
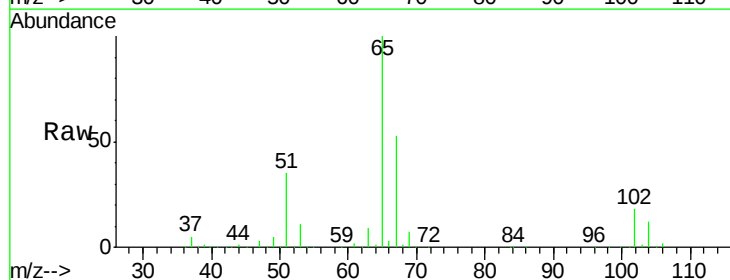
Instrument :
MSVOA_X
ClientSampleId :

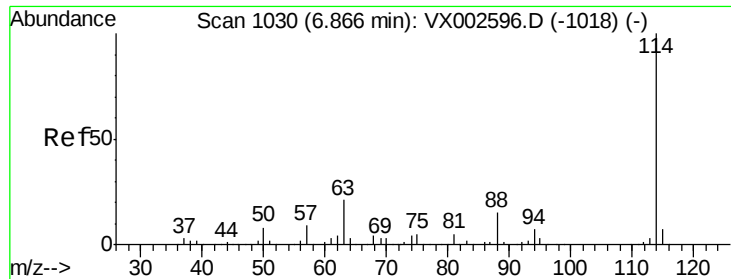
Tot Ion: 56 Resp: 4297
Ion Ratio Lower Upper
56 100
69 171.1 23.7 35.5#
84 139.4 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 43.68 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion: 65 Resp: 145125
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.6

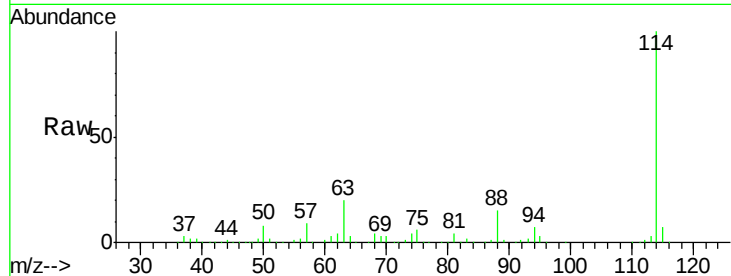




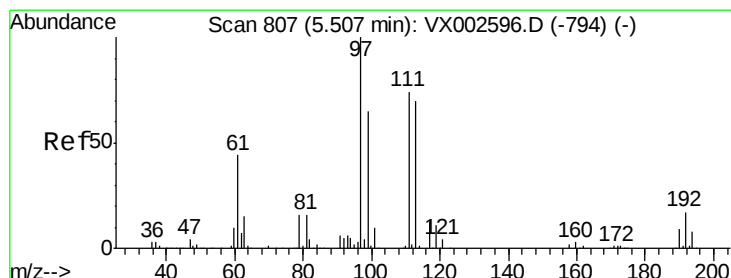
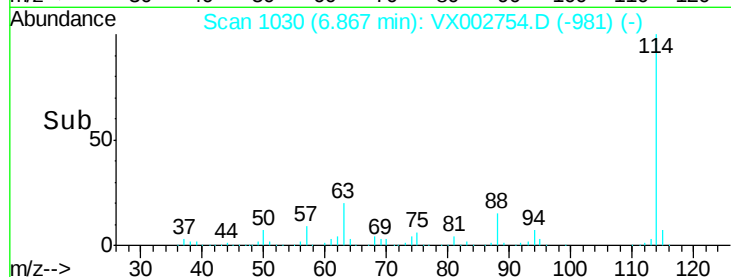
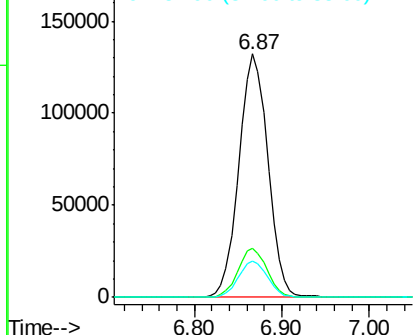
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002754.D
 Acq: 20 Jun 2018 20:47

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 305545
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 14.8 0.0 30.0

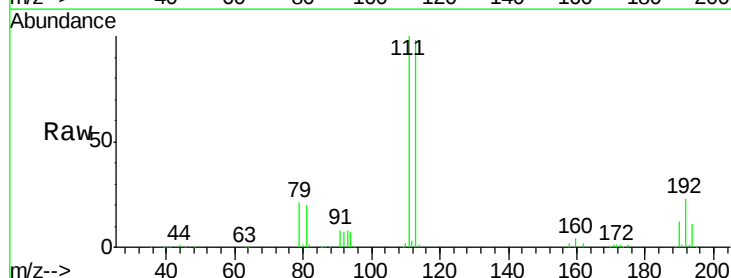


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

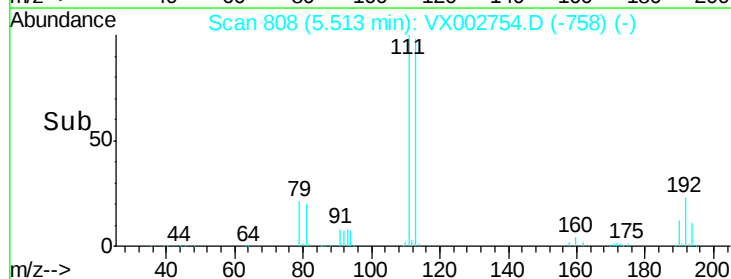
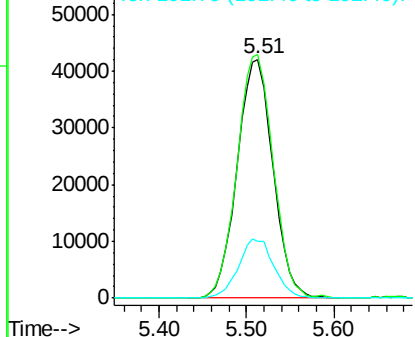


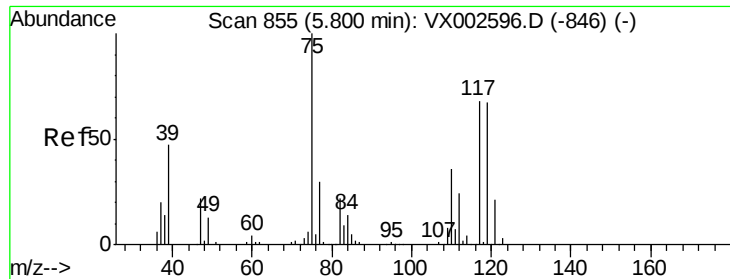
#35
 Dibromofluoromethane
 Concen: 49.17 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002754.D
 Acq: 20 Jun 2018 20:47

Tgt Ion:113 Resp: 119905
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.0
 192 24.5 19.1 28.7



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

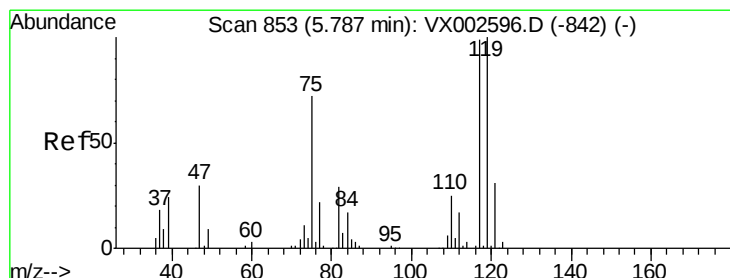
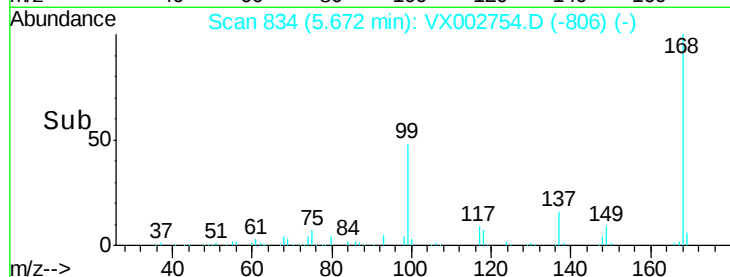
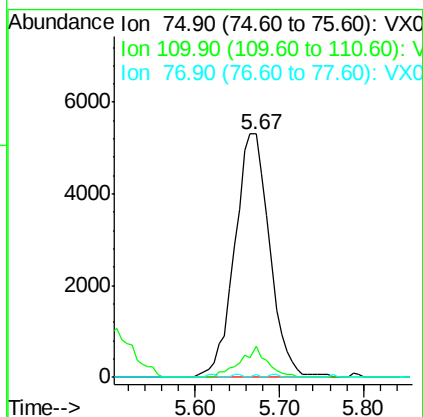
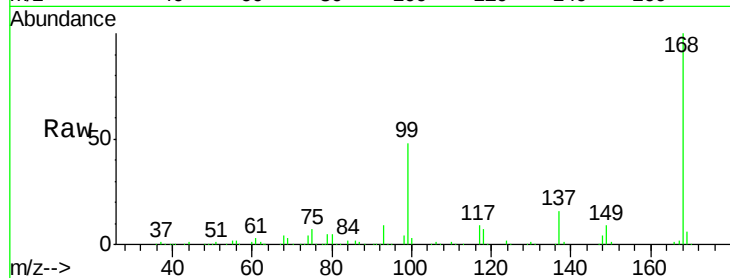




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002754.D
 Acq: 20 Jun 2018 20:47

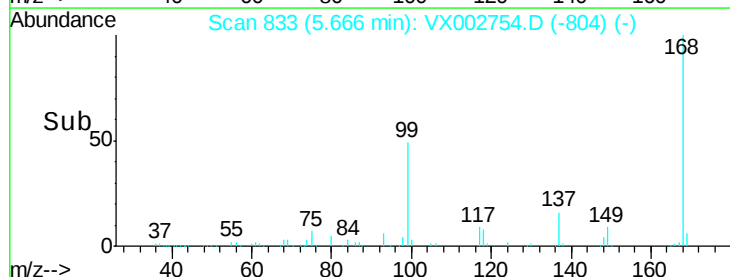
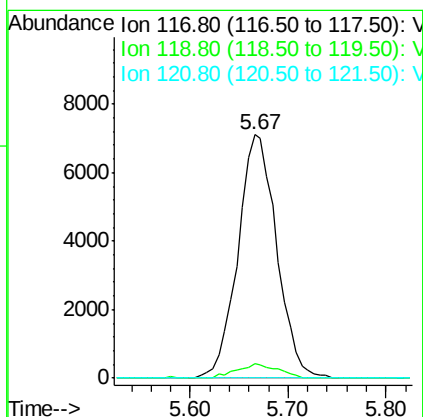
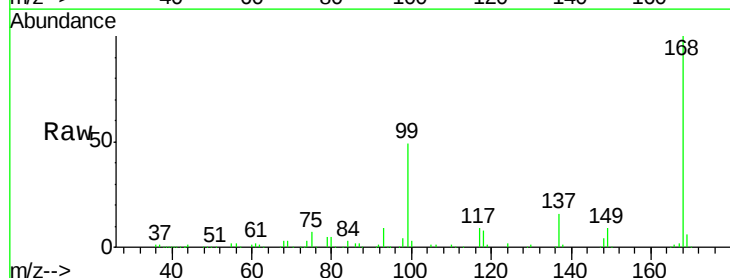
Instrument :
 MSVOA_X
 ClientSampleId :

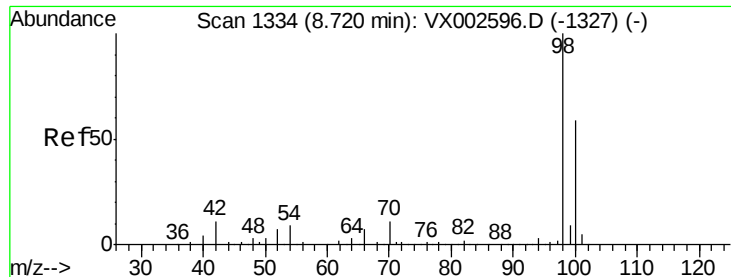
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.1	54.4#
77	0.2	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.04 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002754.D
 Acq: 20 Jun 2018 20:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.4	116.0#
121	0.0	24.4	36.6#





#50

Toluene-d8

Concen: 46.07 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

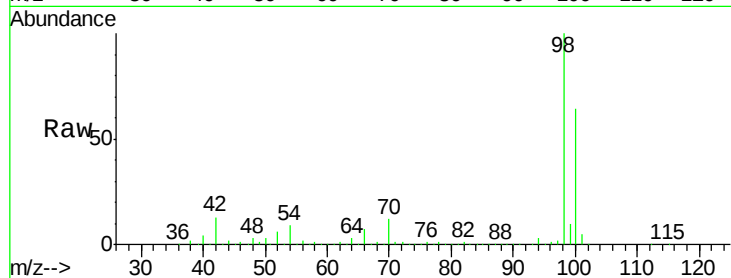
ClientSampleId :

Tot Ion: 98 Resp: 426574

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

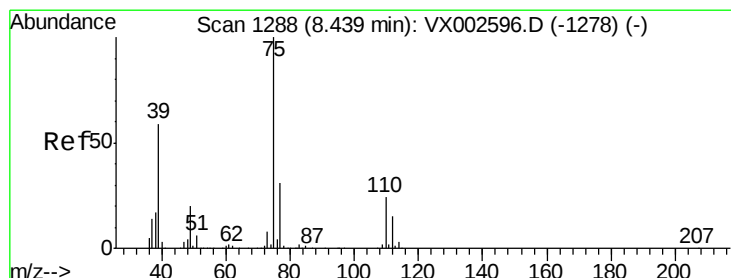
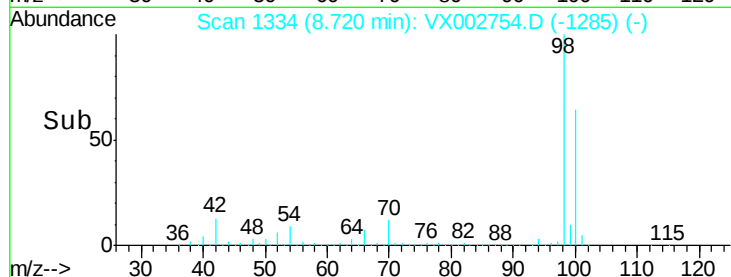
300000

200000

100000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002754.D

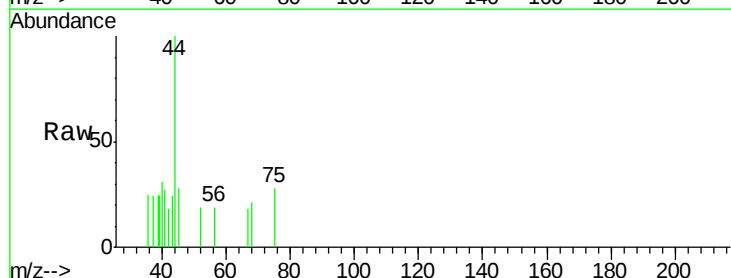
Acq: 20 Jun 2018 20:47

Tgt Ion: 75 Resp: 54

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

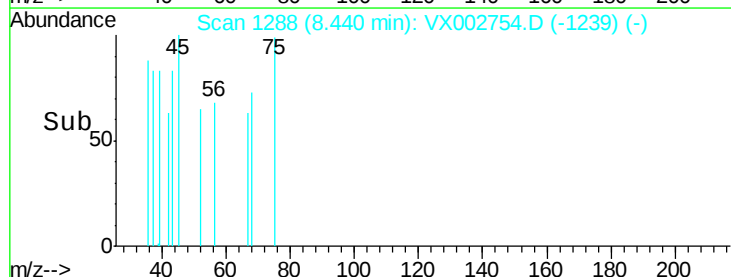
8.44

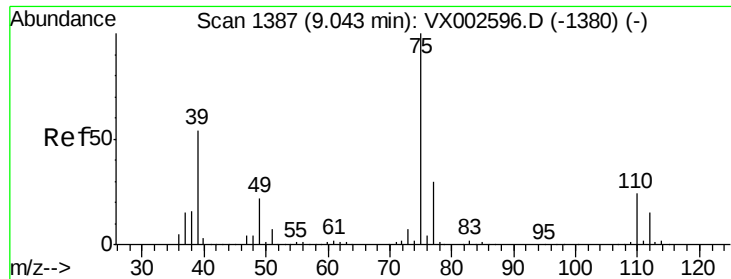
100

50

0

Time-->



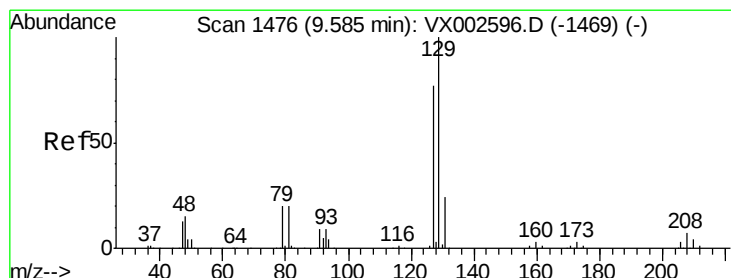
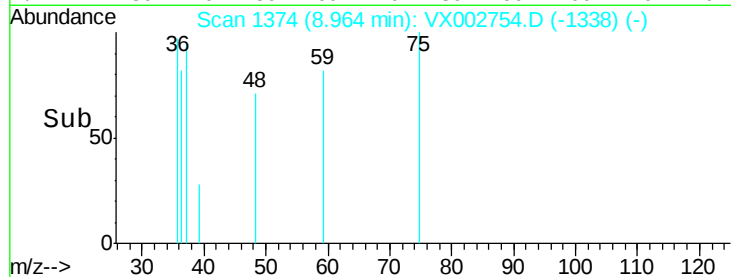
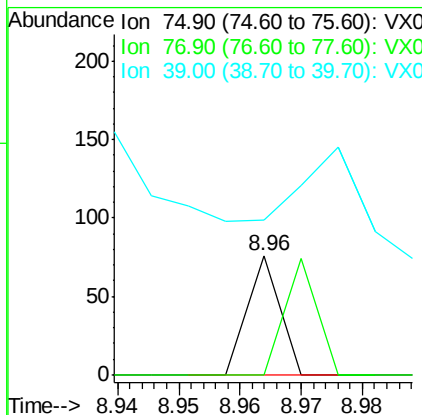
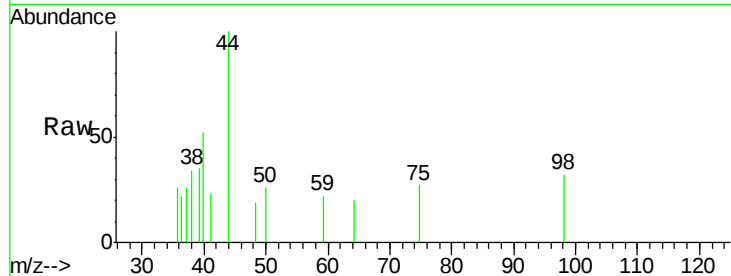


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 8.96 min Scan# 1374
Delta R.T. -0.08 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Instrument :
MSVOA_X
ClientSampled :

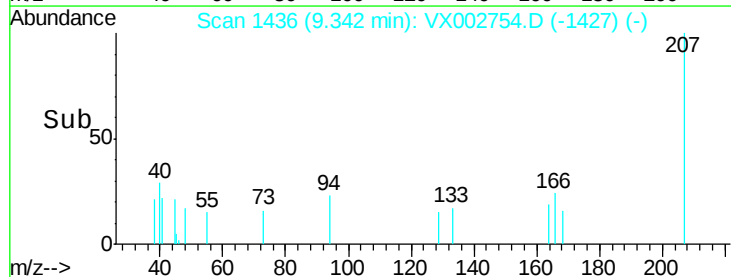
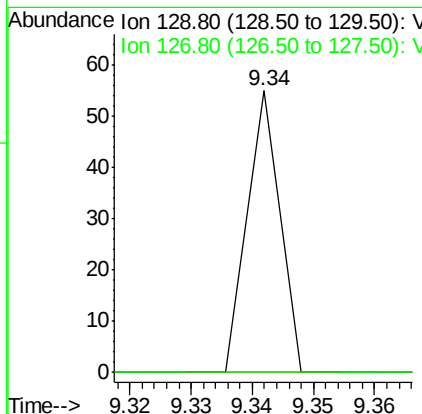
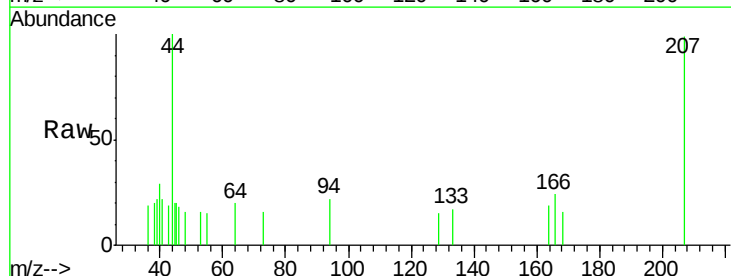
Tot Ion: 75 Resp: 28
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 0.0 42.4 63.6#

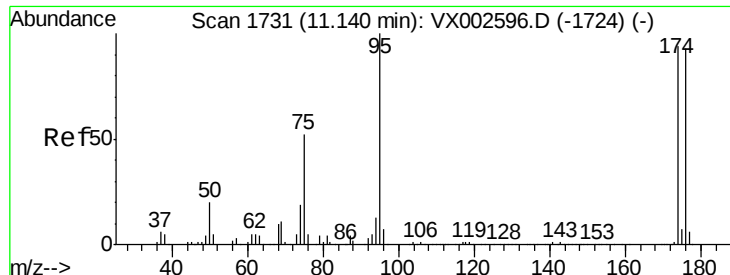


#60

Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion: 129 Resp: 20
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

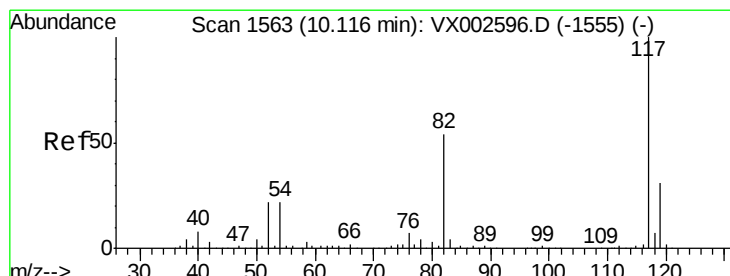
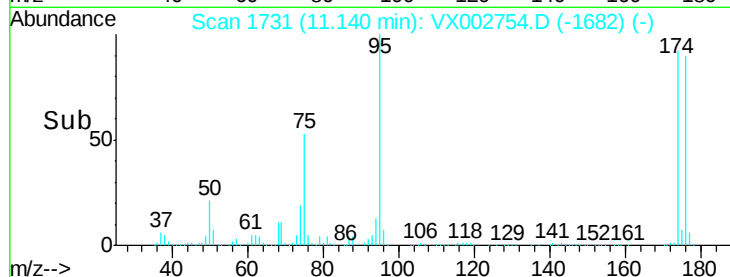
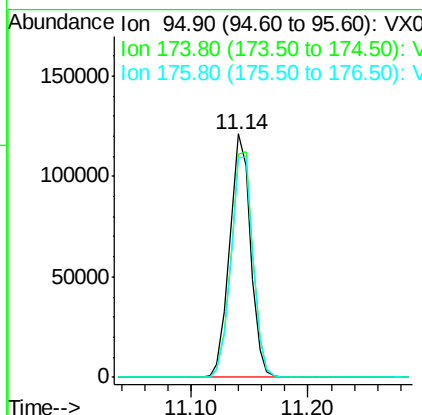
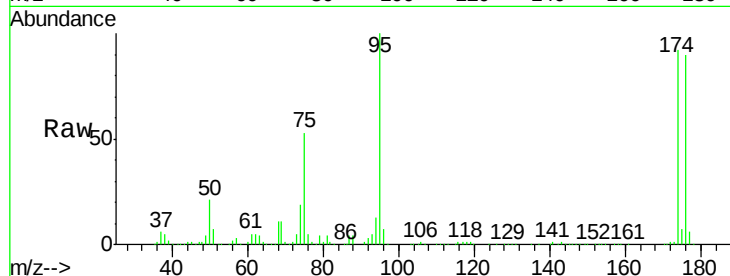




#62
4-Bromofluorobenzene
Concen: 43.38 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

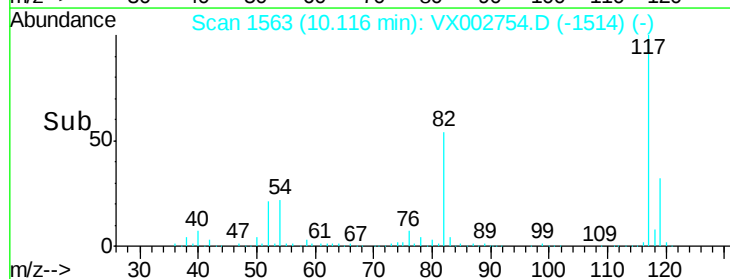
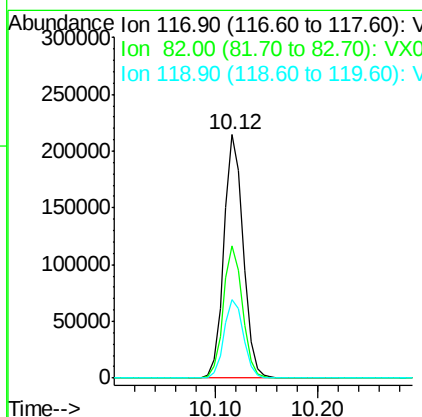
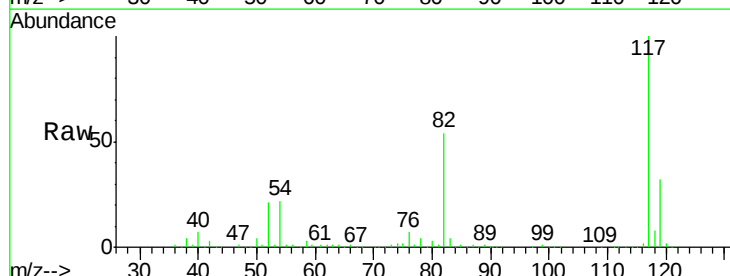
Instrument :
MSVOA_X
ClientSampleId :

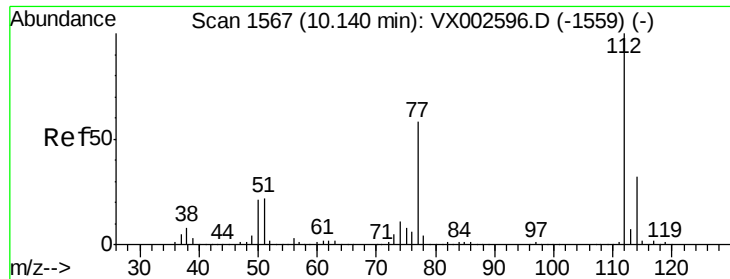
Tot Ion: 95 Resp: 152207
Ion Ratio Lower Upper
95 100
174 97.5 0.0 187.4
176 95.0 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002754.D
Acq: 20 Jun 2018 20:47

Tgt Ion: 117 Resp: 282385
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.1 25.8 38.6





#65

Chlorobenzene

Concen: 2.01 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

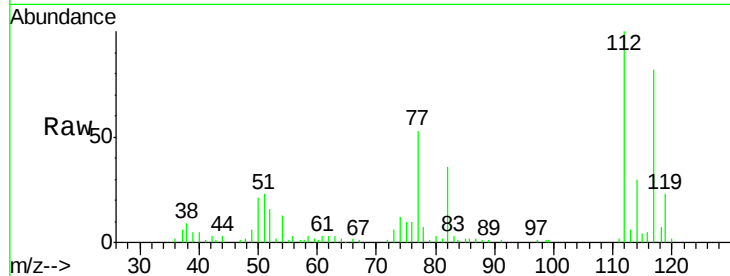
ClientSampled :

Tot Ion:112 Resp: 13952

Ion Ratio Lower Upper

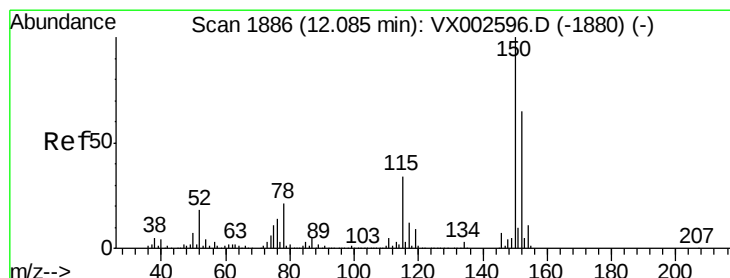
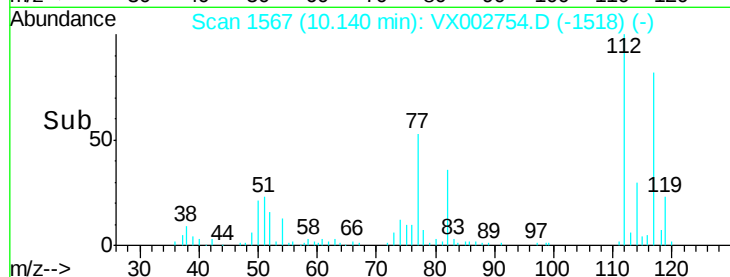
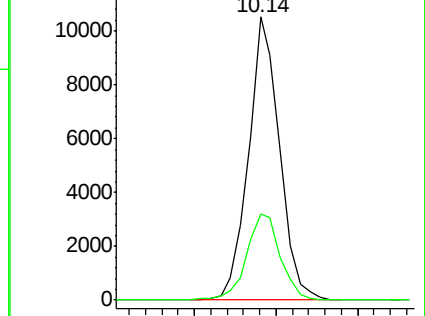
112 100

114 30.4 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

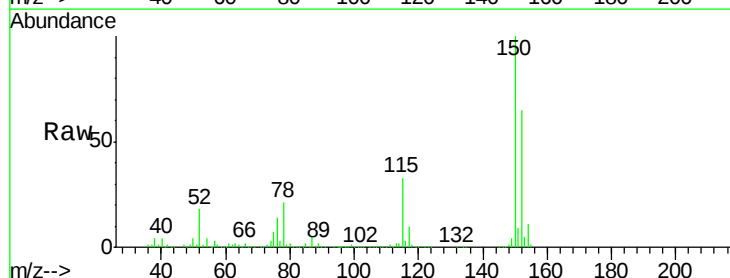
Tgt Ion:152 Resp: 165324

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

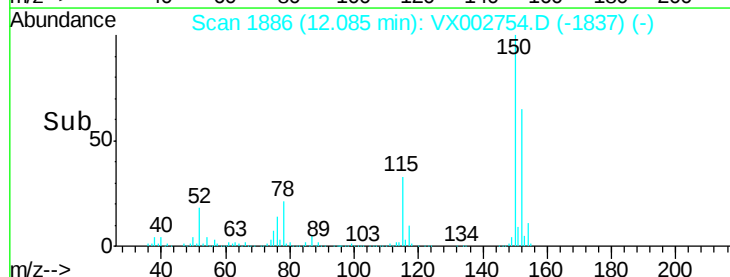
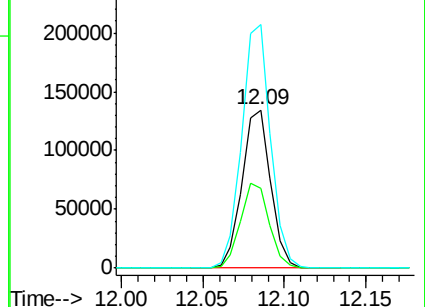
150 155.2 0.0 347.2

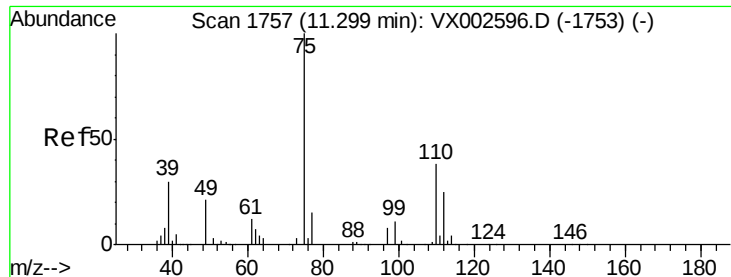


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

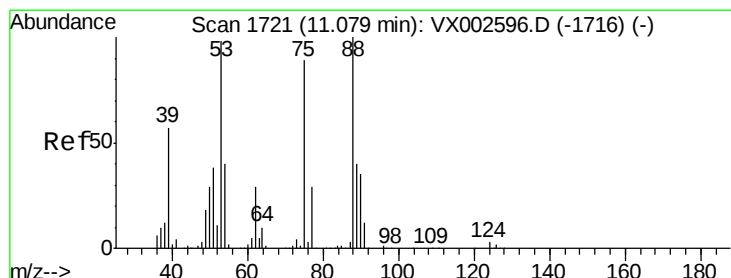
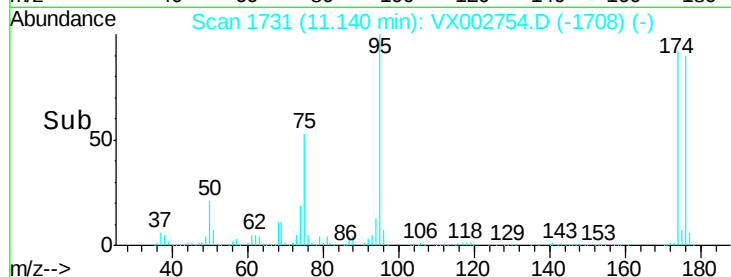
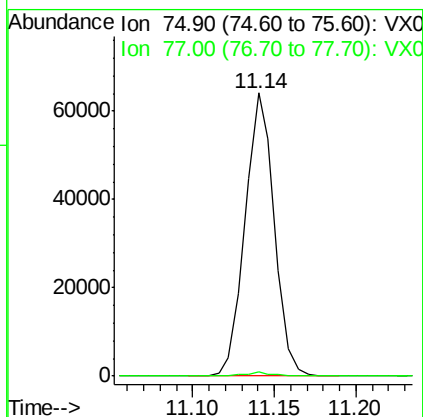
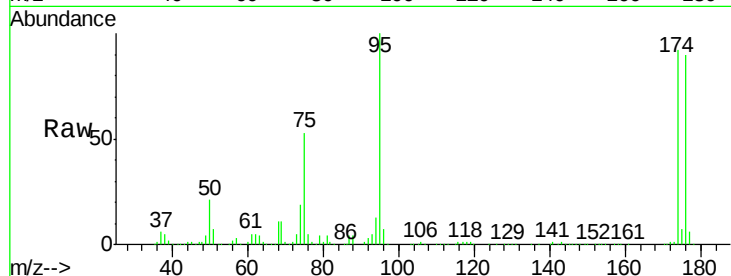
ClientSampleId :

Tot Ion: 75 Resp: 79953

Ion Ratio Lower Upper

75 100

77 1.4 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

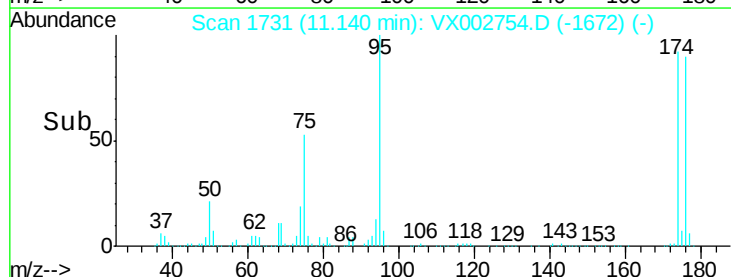
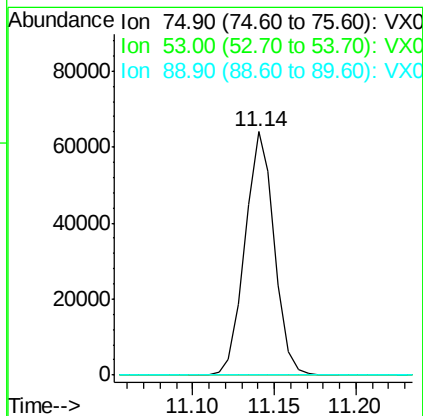
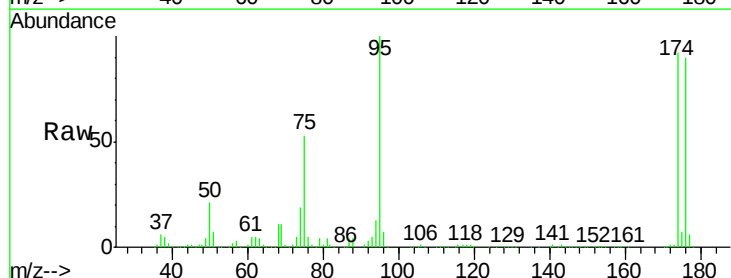
Tgt Ion: 75 Resp: 79953

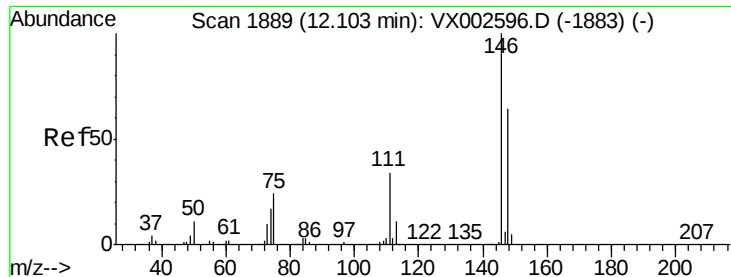
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 0.92 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX002754.D

Acq: 20 Jun 2018 20:47

Instrument :

MSVOA_X

ClientSampleId :

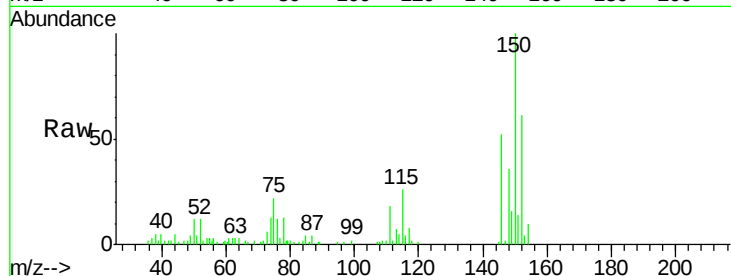
Tot Ion:146 Resp: 5276

Ion Ratio Lower Upper

146 100

111 77.6 18.7 56.1#

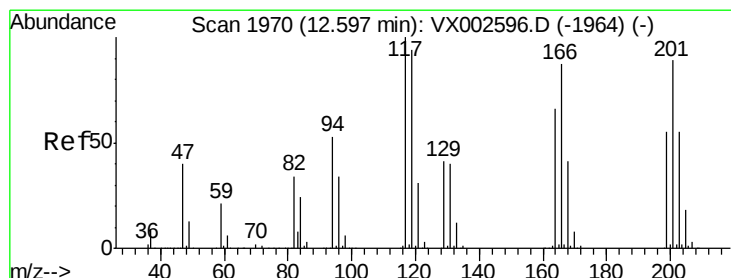
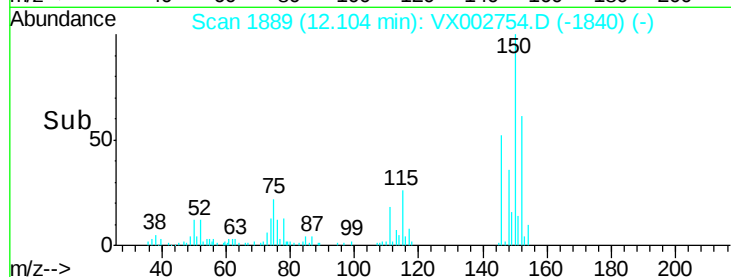
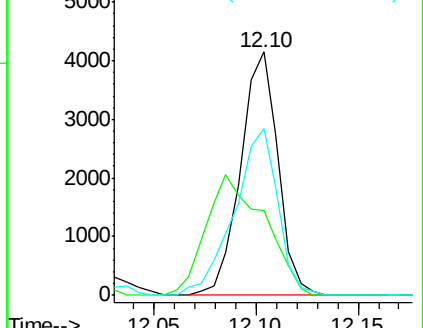
148 80.2 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.67 ug/l

RT: 12.66 min Scan# 1981

Delta R.T. 0.07 min

Lab File: VX002754.D

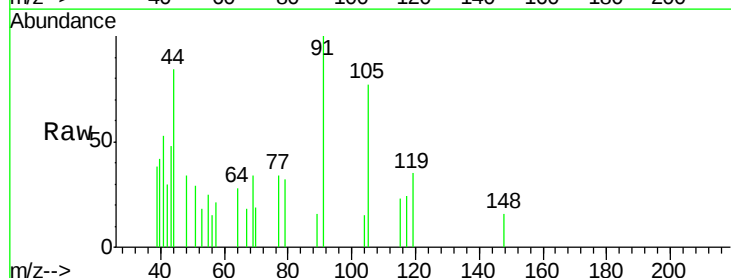
Acq: 20 Jun 2018 20:47

Tgt Ion:117 Resp: 78

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

