

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002763.D
 Acq On : 21 Jun 2018 01:39
 Operator : JC/MD
 Sample : PB110408ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:57:05 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	219057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	308774	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290004	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	165891	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	149164	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
35) Dibromofluoromethane	5.51	113	119975	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.72	98	444088	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
62) 4-Bromofluorobenzene	11.14	95	153949	43.42	ug/l	0.00
Spiked Amount			Recovery	=	86.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	623	0.23	ug/l #	61
5) Bromomethane	1.65	94	1830	1.06	ug/l	95
6) Chloroethane	1.98	64	426	0.23	ug/l #	46
8) Diethyl Ether	2.19	74	361	0.20	ug/l	88
10) Methyl Iodide	2.53	142	2822	5.90	ug/l	96
11) Tert butyl alcohol	3.03	59	2338	3.40	ug/l #	88
13) Acrolein	2.31	56	318	7.82	ug/l	86
15) Acrylonitrile	3.15	53	318	0.21	ug/l #	70
16) Acetone	2.45	43	9632	6.56	ug/l	97
17) Carbon Disulfide	2.57	76	2127	0.37	ug/l	99
18) Methyl Acetate	2.78	43	22341	5.71	ug/l	96
20) Methylene Chloride	2.86	84	10754	3.57	ug/l	97
25) 2-Butanone	4.71	43	2107	1.09	ug/l	96
36) 1,1-Dichloropropene	5.67	75	15541	4.74	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20407	6.25	ug/l #	15
49) 1,4-Dioxane	7.77	88	19	0.32	ug/l #	22
51) 4-Methyl-2-Pentanone	8.65	43	977	0.25	ug/l #	75
53) t-1,3-Dichloropropene	8.46	75	19	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	187	3.26	ug/l #	1
60) Dibromochloromethane	9.34	129	199	3.83	ug/l #	11
65) Chlorobenzene	10.14	112	3782	0.53	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	82437	26.33	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	82437	81.40	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	375	0.55	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002763.D

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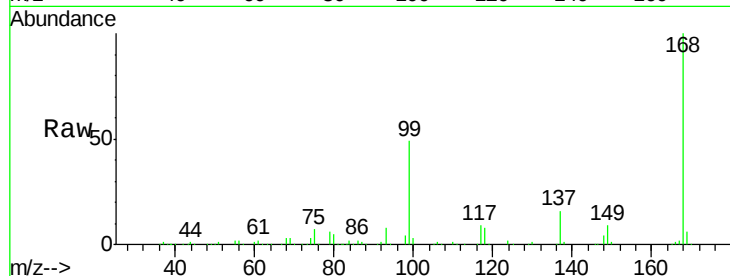
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 219057

Ion Ratio Lower Upper

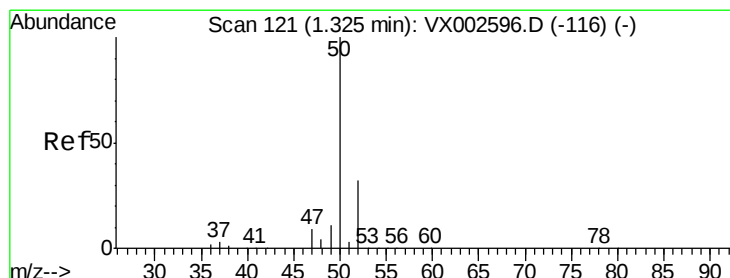
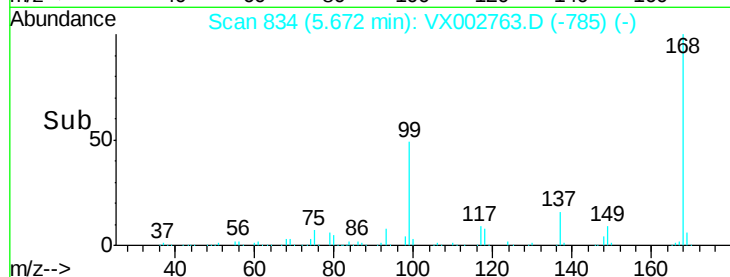
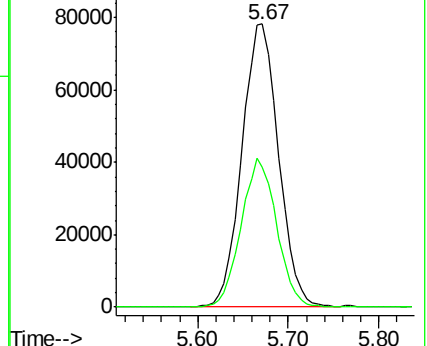
168 100

99 49.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002763.D

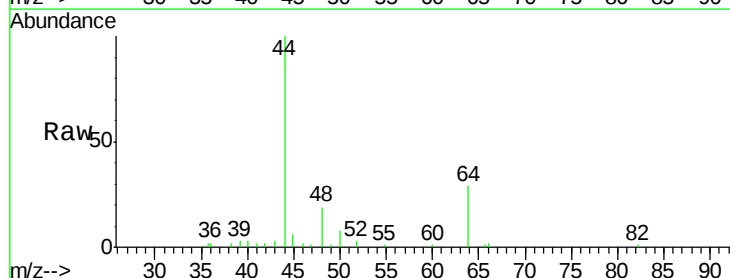
Acq: 21 Jun 2018 01:39

Tgt Ion: 50 Resp: 623

Ion Ratio Lower Upper

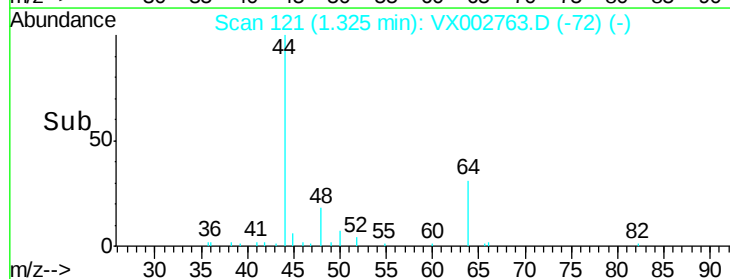
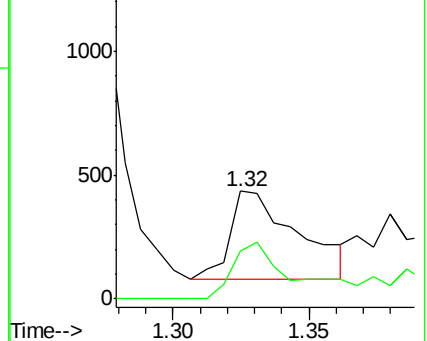
50 100

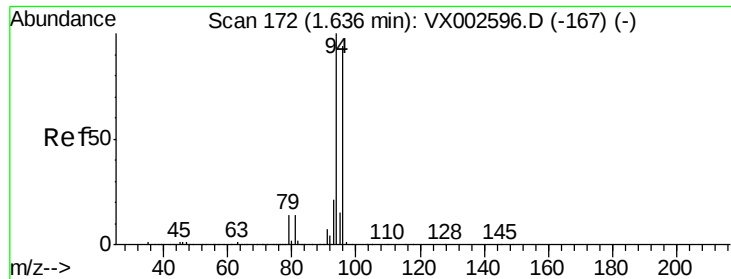
52 53.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.06 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

Instrument :

MSVOA_X

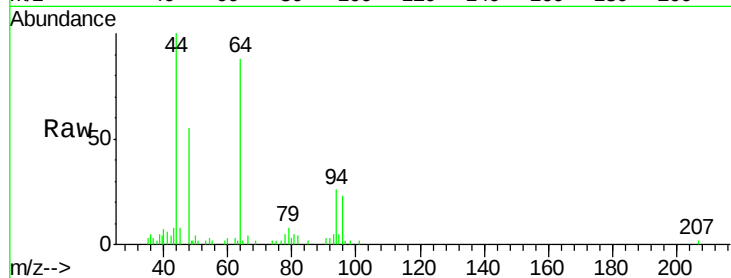
ClientSampled :

Tot Ion: 94 Resp: 1830

Ion Ratio Lower Upper

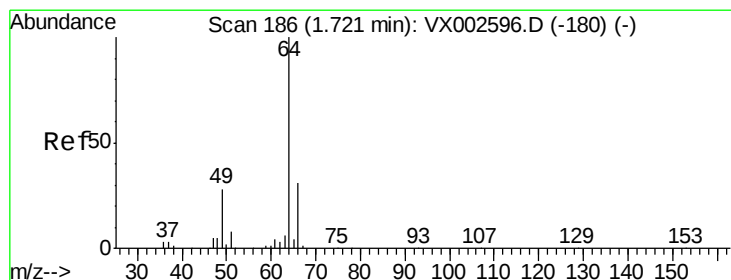
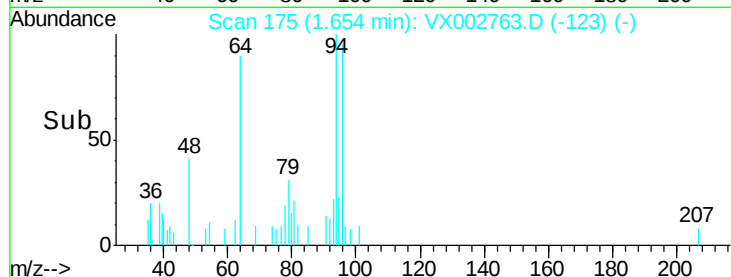
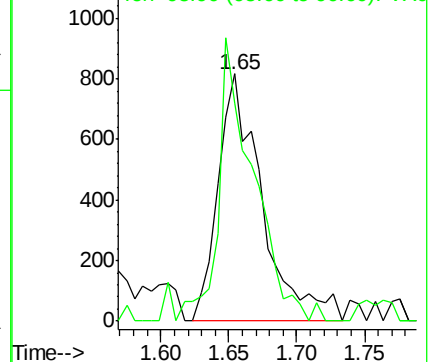
94 100

96 88.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.23 ug/l

RT: 1.98 min Scan# 229

Delta R.T. 0.26 min

Lab File: VX002763.D

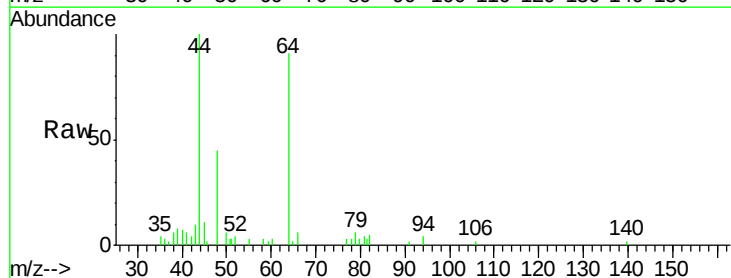
Acq: 21 Jun 2018 01:39

Tgt Ion: 64 Resp: 426

Ion Ratio Lower Upper

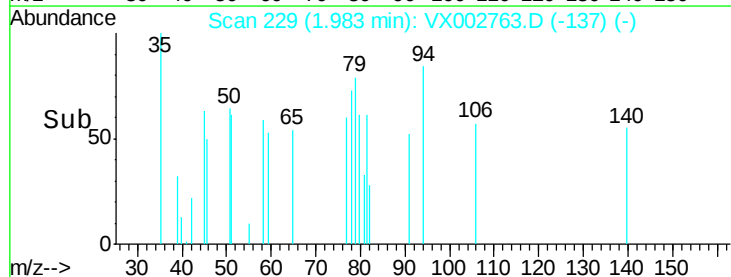
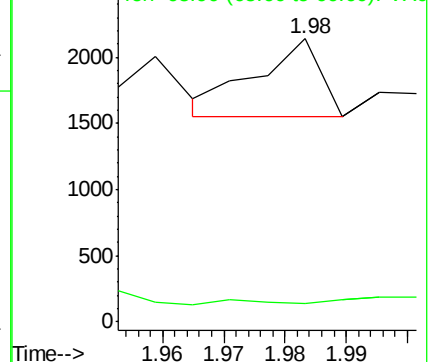
64 100

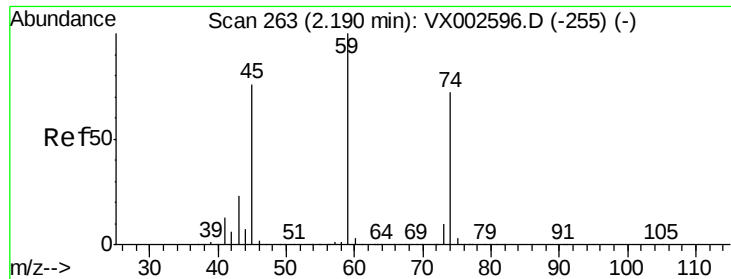
66 2.1 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

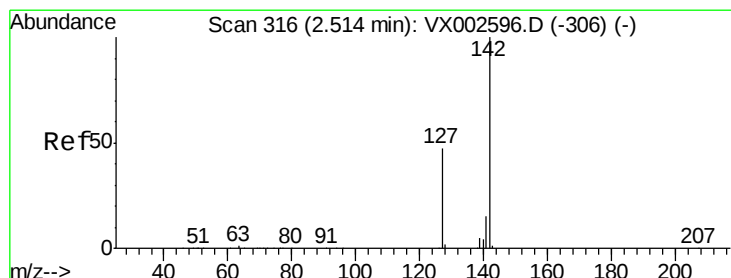
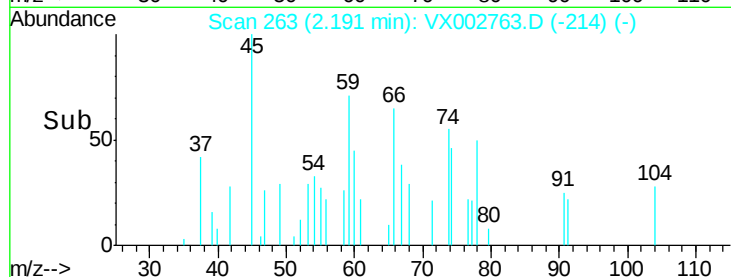
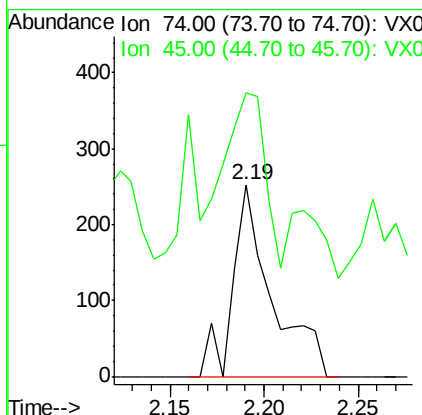
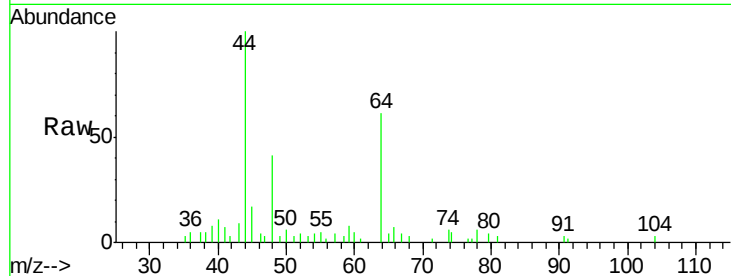




#8
Diethyl Ether
Concen: 0.20 ug/l
RT: 2.19 min Scan# 263
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

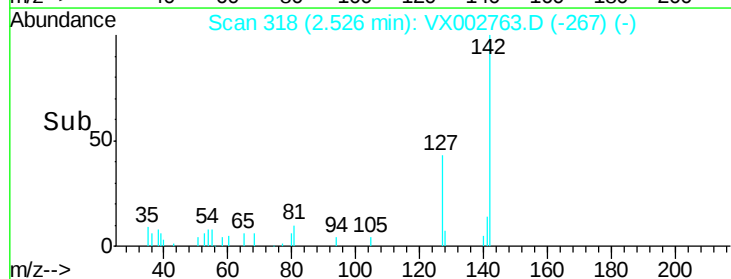
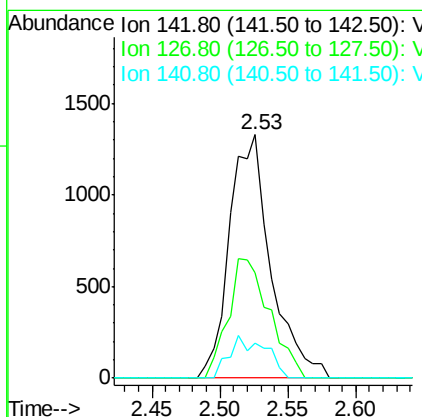
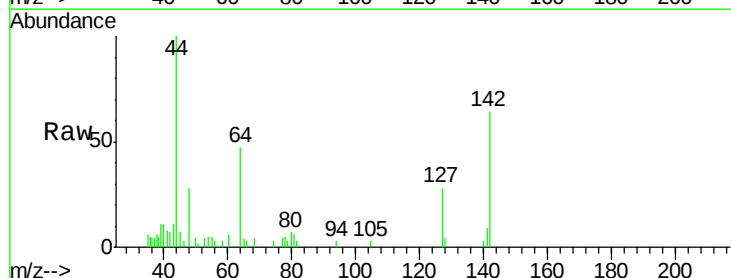
Instrument :
MSVOA_X
ClientSampled :

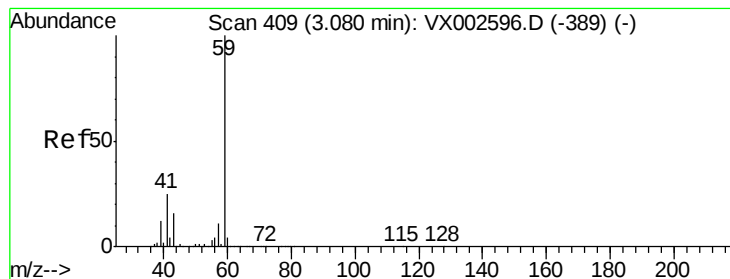
Tot Ion: 74 Resp: 361
Ion Ratio Lower Upper
74 100
45 94.2 53.1 159.4



#10
Methyl Iodide
Concen: 5.90 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion:142 Resp: 2822
Ion Ratio Lower Upper
142 100
127 49.0 36.6 55.0
141 15.2 11.3 16.9



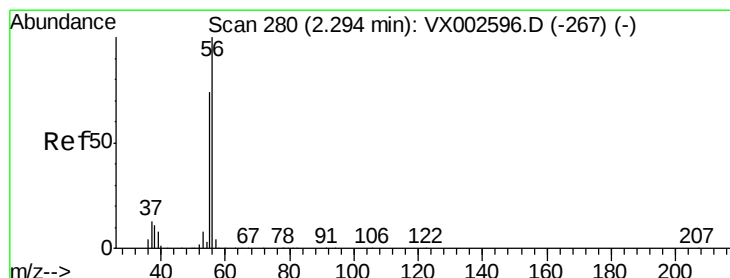
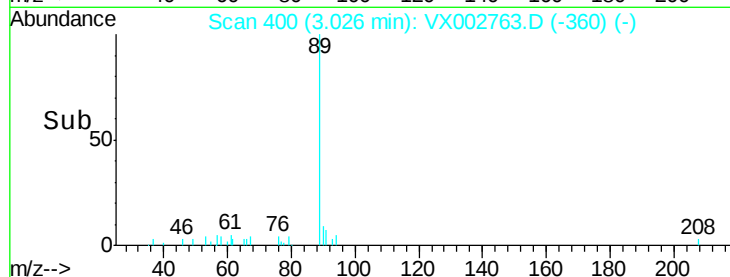
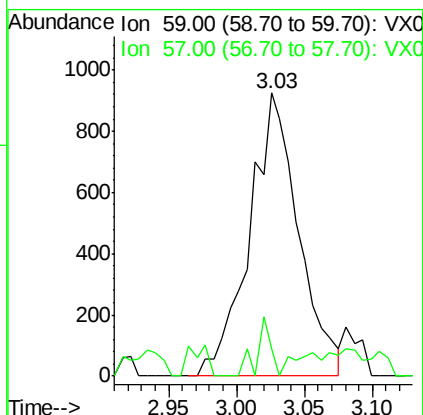
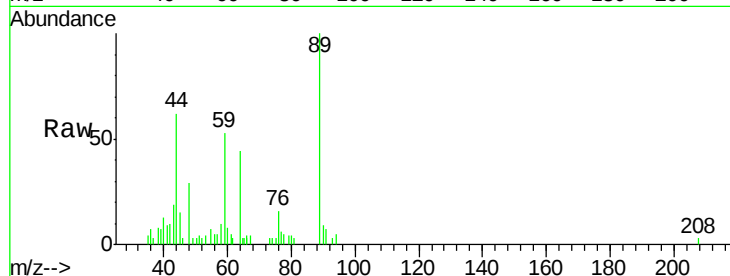


#11

Tert butyl alcohol
 Concen: 3.40 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

Instrument :
 MSVOA_X
 ClientSampled :

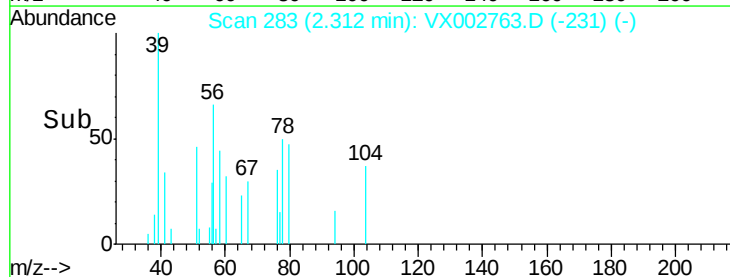
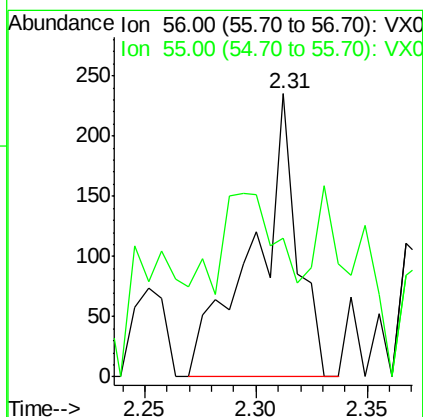
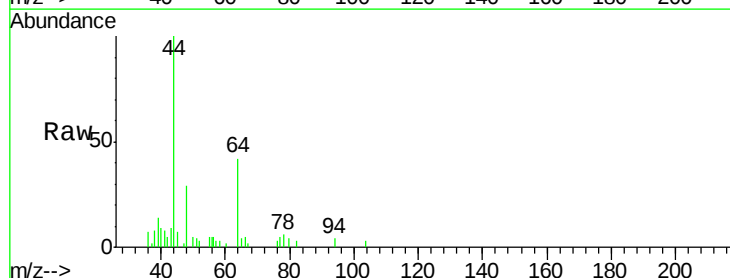
Tot Ion: 59 Resp: 2338
 Ion Ratio Lower Upper
 59 100
 57 5.8 8.2 12.2#

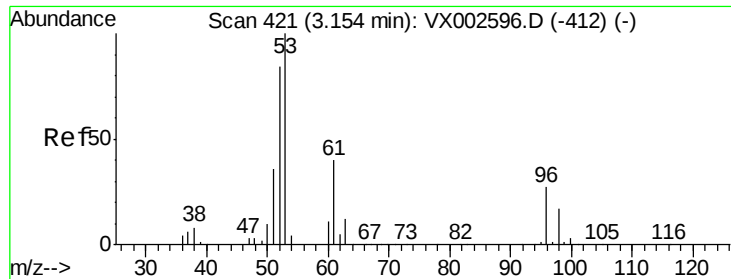


#13

Acrolein
 Concen: 7.82 ug/l
 RT: 2.31 min Scan# 283
 Delta R.T. 0.02 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

Tgt Ion: 56 Resp: 318
 Ion Ratio Lower Upper
 56 100
 55 83.0 57.0 85.4





#15

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

Instrument :
MSVOA_X
ClientSampled :

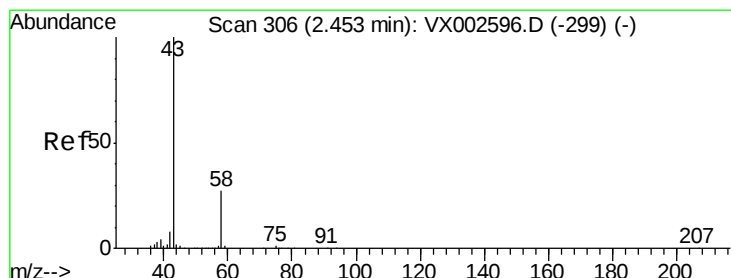
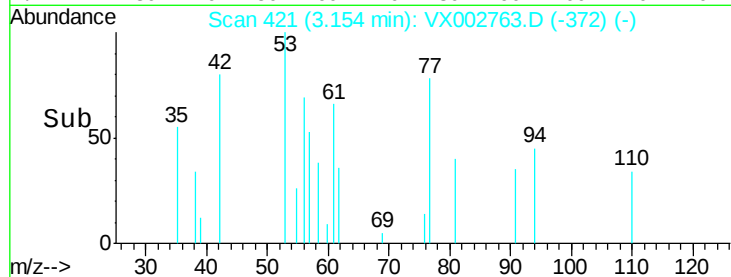
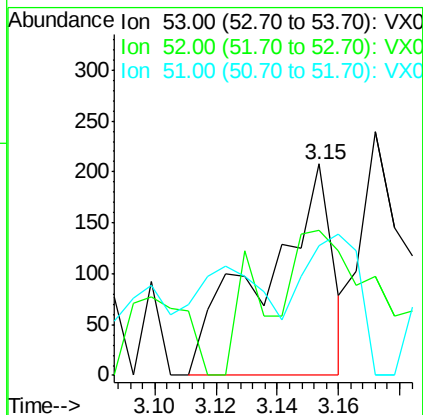
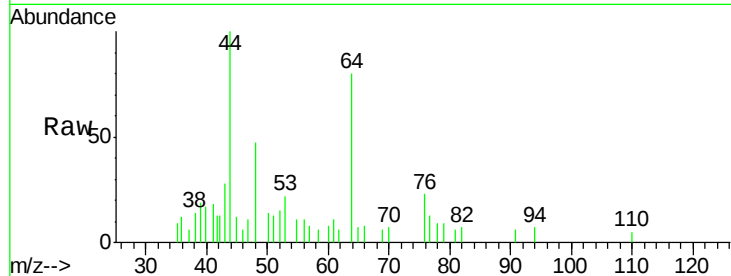
Tot Ion: 53 Resp: 318

Ion Ratio Lower Upper

53 100

52 109.7 66.7 100.1#

51 56.0 29.9 44.9#



#16

Acetone

Concen: 6.56 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002763.D

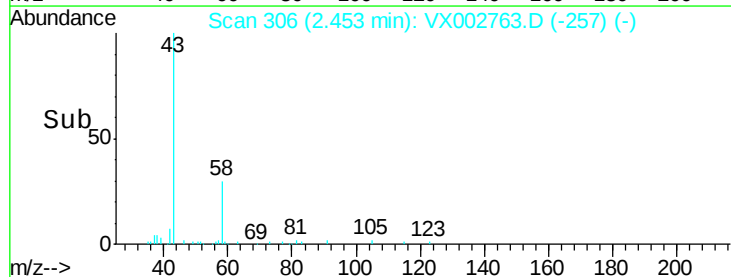
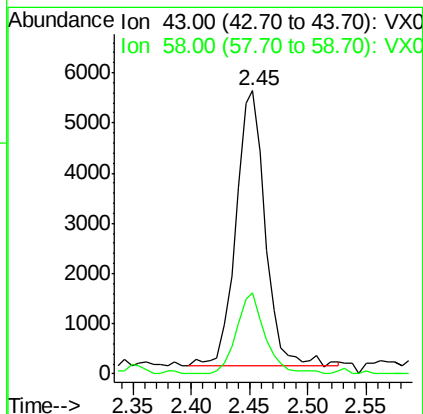
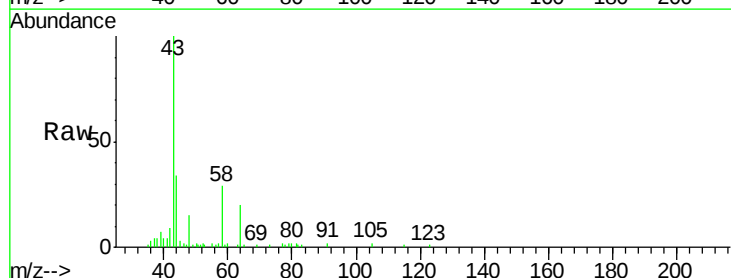
Acq: 21 Jun 2018 01:39

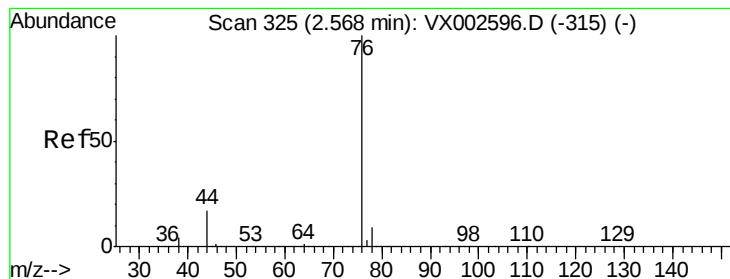
Tgt Ion: 43 Resp: 9632

Ion Ratio Lower Upper

43 100

58 29.4 22.1 33.1





#17

Carbon Disulfide

Concen: 0.37 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

Instrument :

MSVOA_X

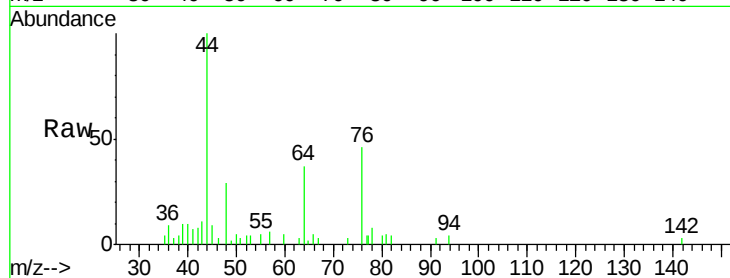
ClientSampleId :

Tot Ion: 76 Resp: 2127

Ion Ratio Lower Upper

76 100

78 8.2 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1200

1000

800

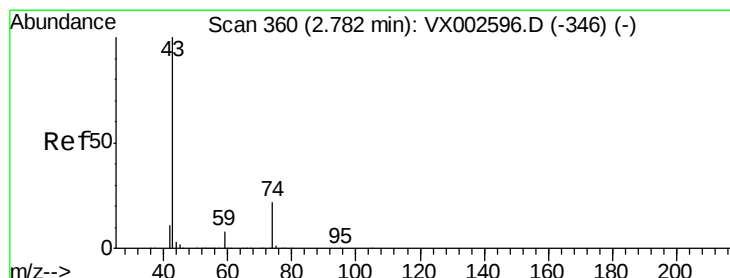
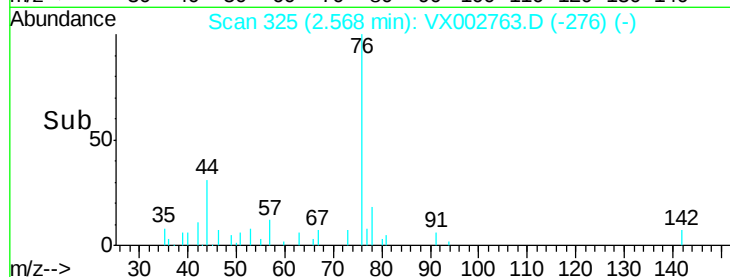
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 5.71 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002763.D

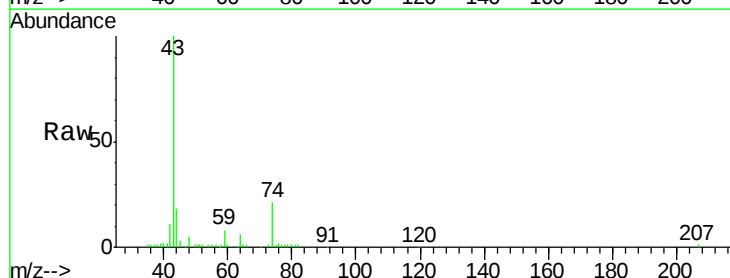
Acq: 21 Jun 2018 01:39

Tgt Ion: 43 Resp: 22341

Ion Ratio Lower Upper

43 100

74 22.8 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

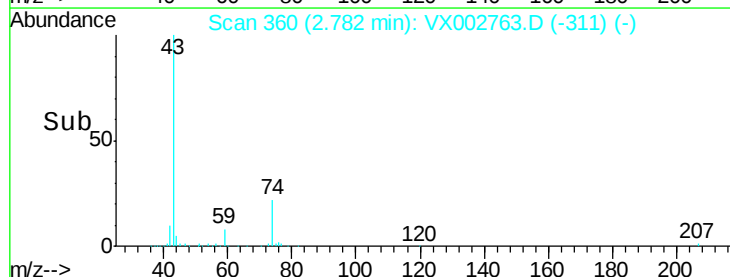
2.78

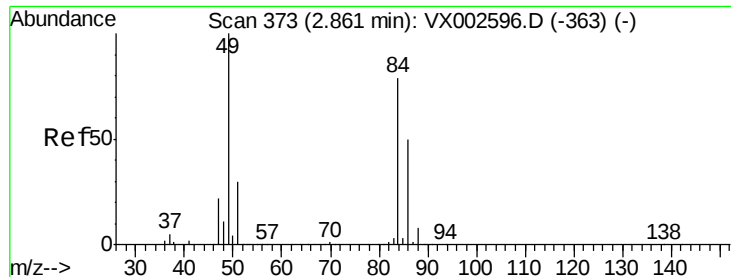
10000

5000

0

Time-->

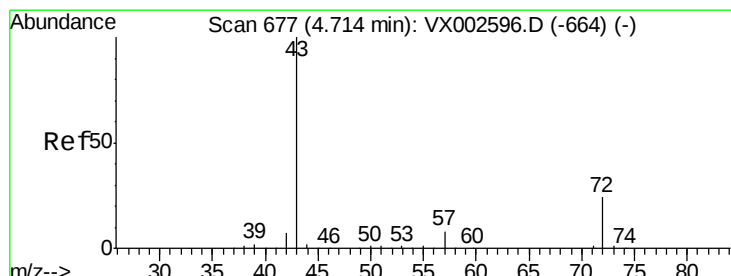
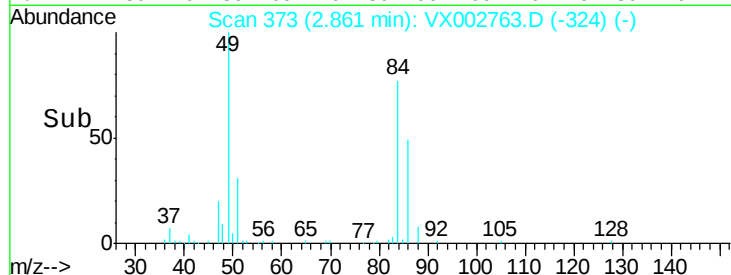
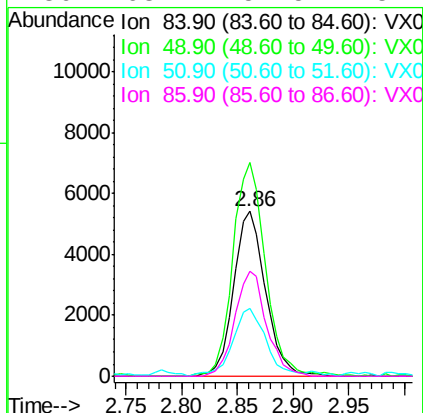
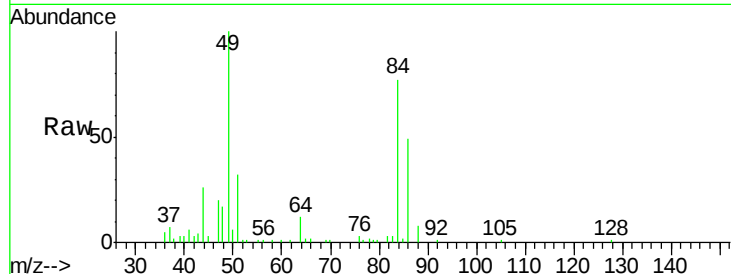




#20
Methylene Chloride
Concen: 3.57 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

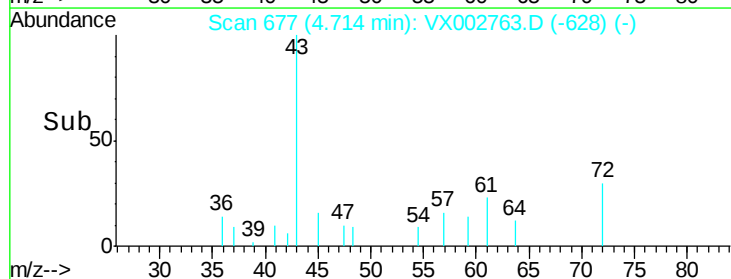
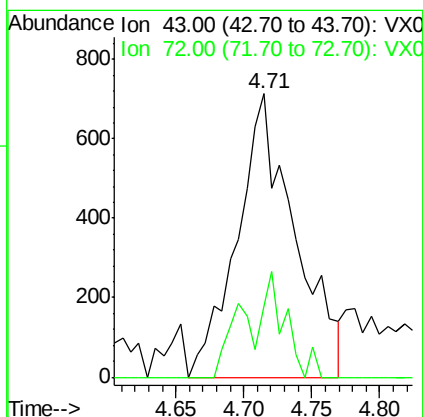
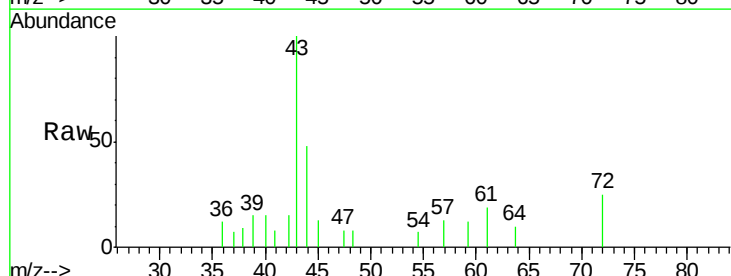
Instrument :
MSVOA_X
ClientSampleId :

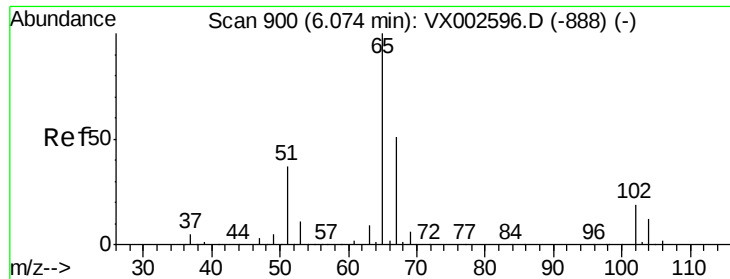
Tot Ion: 84 Resp: 10754
Ion Ratio Lower Upper
84 100
49 129.7 107.8 161.6
51 41.0 32.8 49.2
86 63.4 52.5 78.7



#25
2-Butanone
Concen: 1.09 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion: 43 Resp: 2107
Ion Ratio Lower Upper
43 100
72 25.2 18.5 27.7

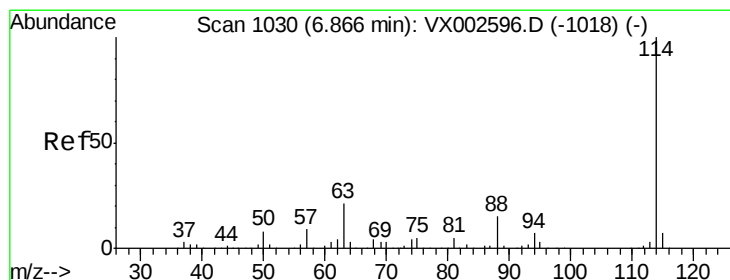
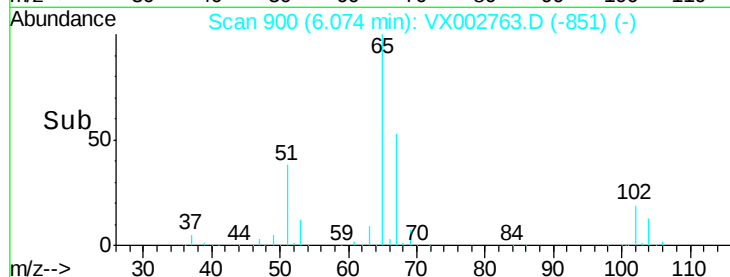
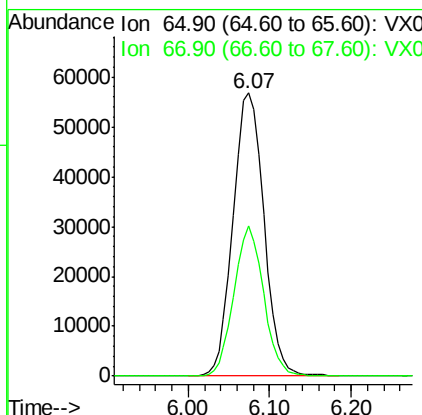
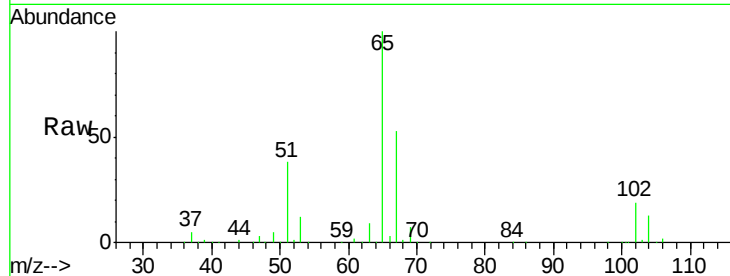




#33
 1,2-Dichloroethane-d4
 Concen: 44.81 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

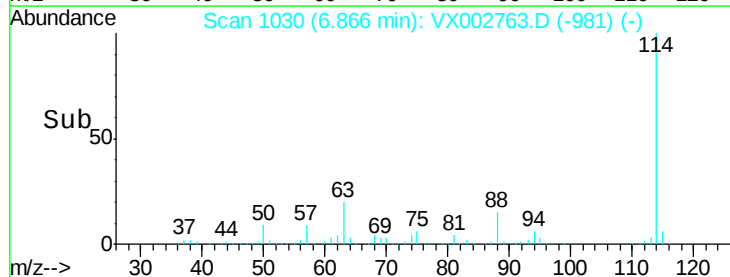
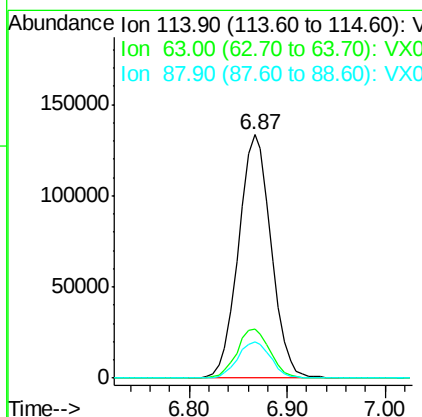
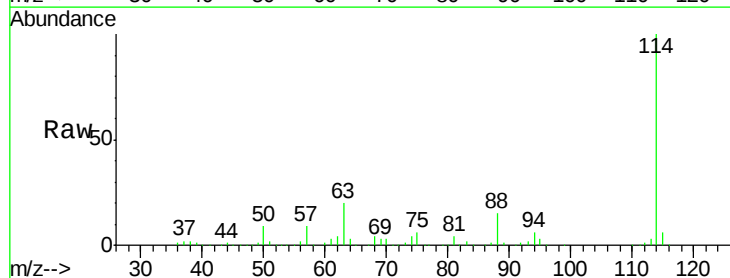
Instrument :
 MSVOA_X
 ClientSampleId :

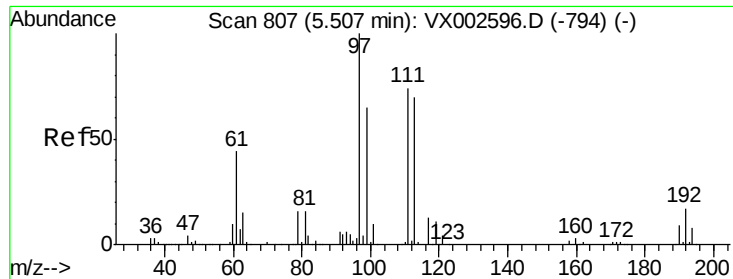
Tot Ion: 65 Resp: 149164
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

Tgt Ion: 114 Resp: 308774
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 14.8 0.0 30.0

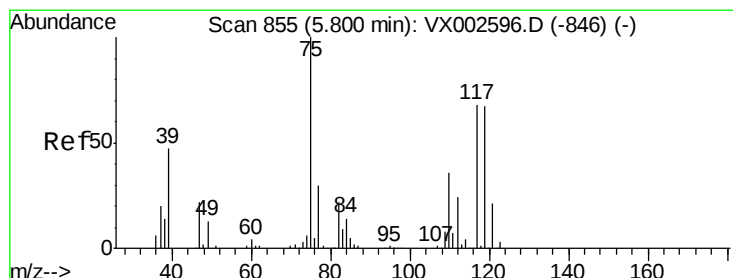
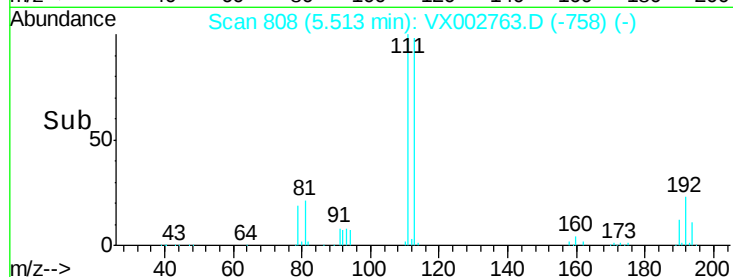
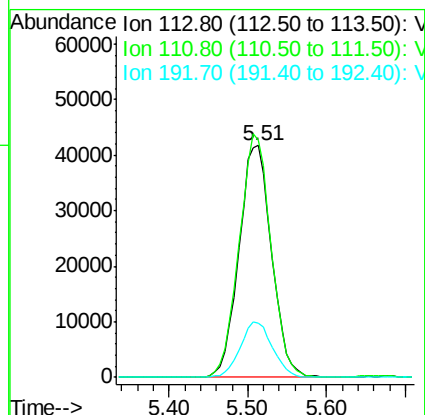
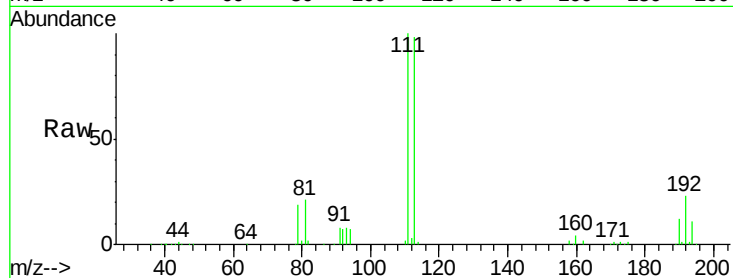




#35
 Dibromofluoromethane
 Concen: 48.68 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

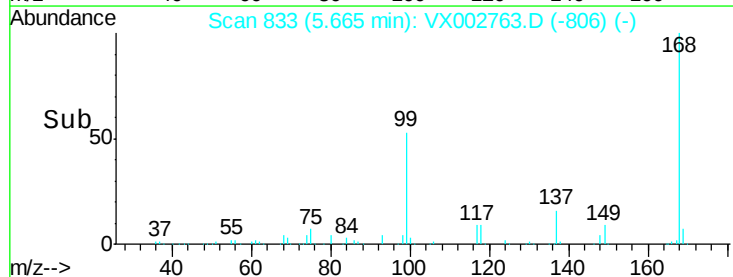
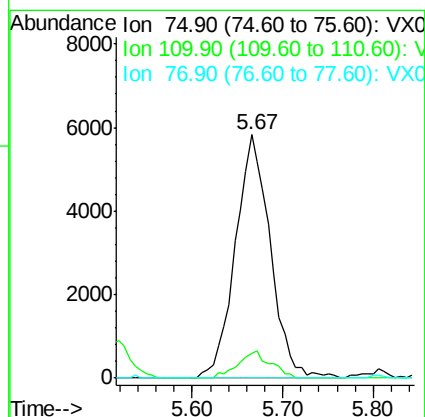
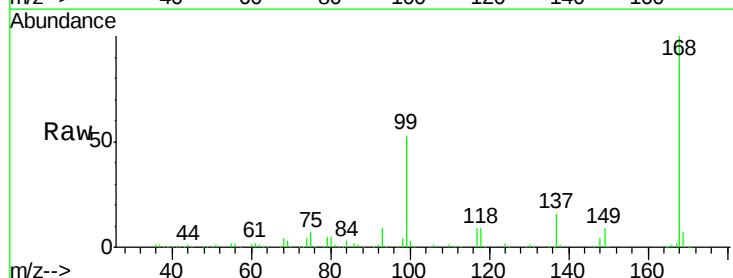
Instrument :
 MSVOA_X
 ClientSampled :

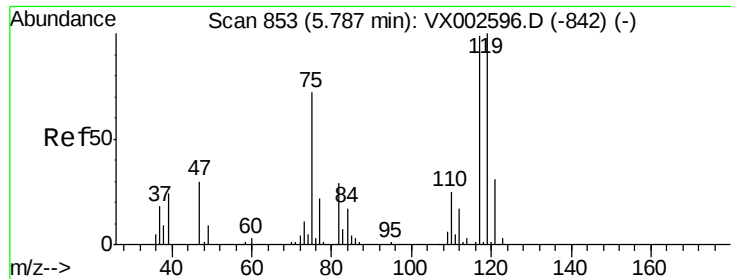
Tot Ion:113 Resp: 119975
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 23.6 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.74 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002763.D
 Acq: 21 Jun 2018 01:39

Tgt Ion: 75 Resp: 15541
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.0 24.3 36.5#

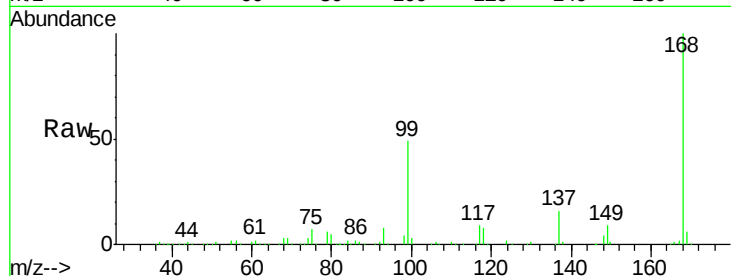




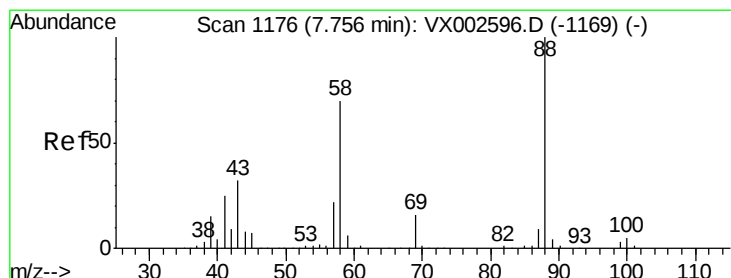
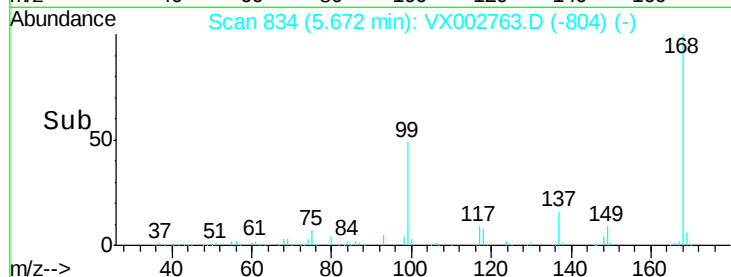
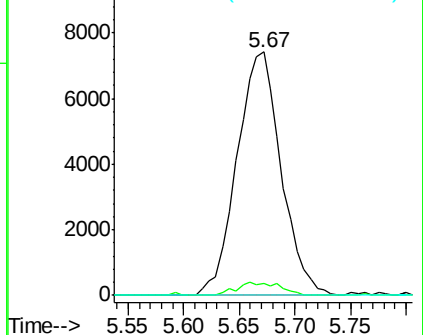
#38
Carbon Tetrachloride
Concen: 6.25 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 20407
Ion Ratio Lower Upper
117 100
119 4.7 77.4 116.0#
121 0.0 24.4 36.6#

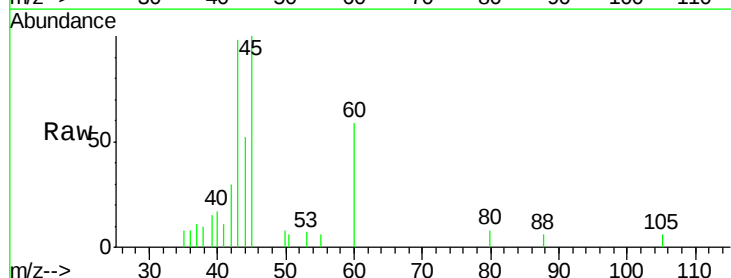


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

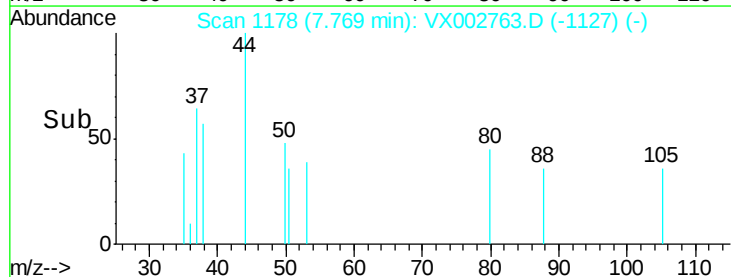
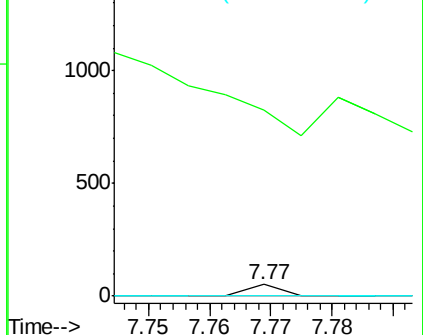


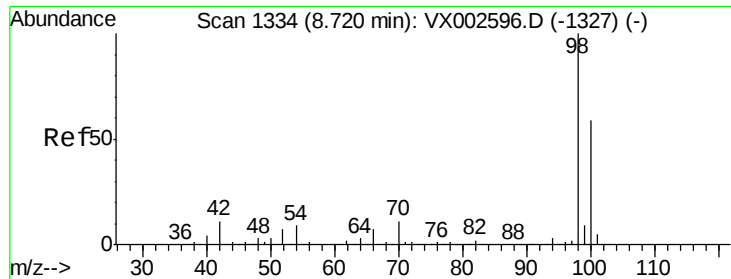
#49
1,4-Dioxane
Concen: 0.32 ug/l
RT: 7.77 min Scan# 1178
Delta R.T. 0.01 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

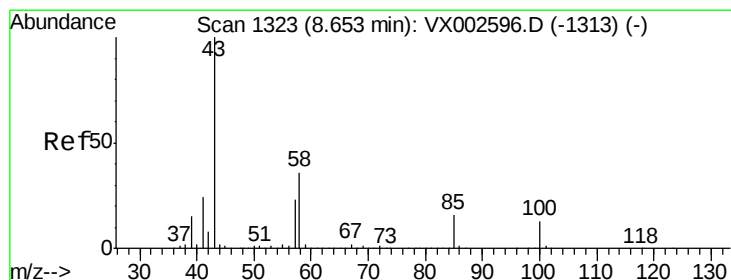
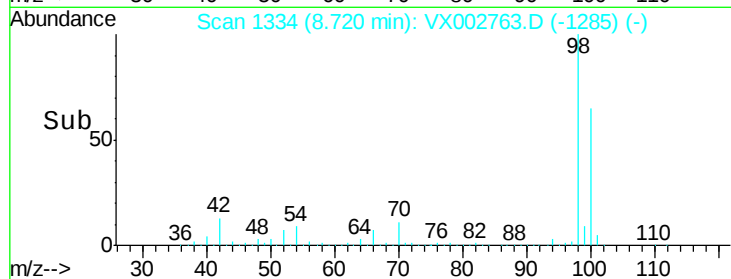
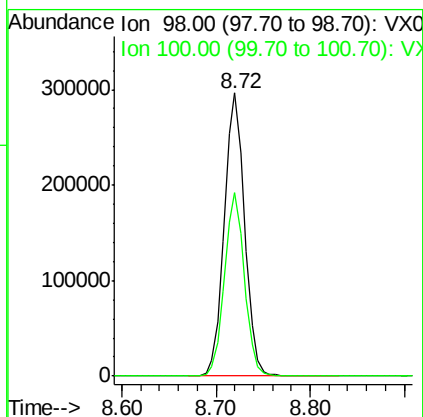
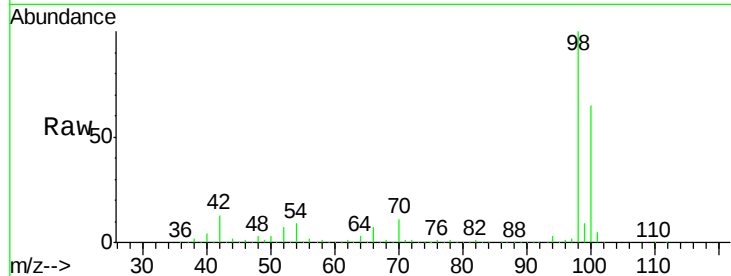




#50
Toluene-d8
Concen: 47.46 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

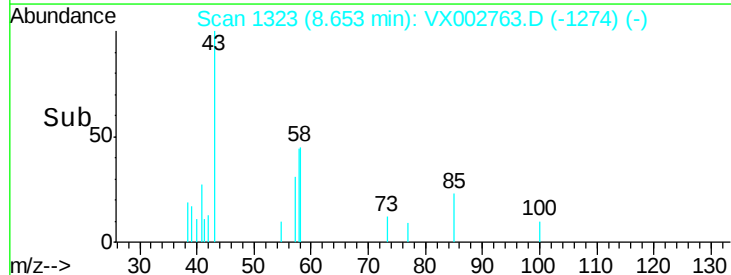
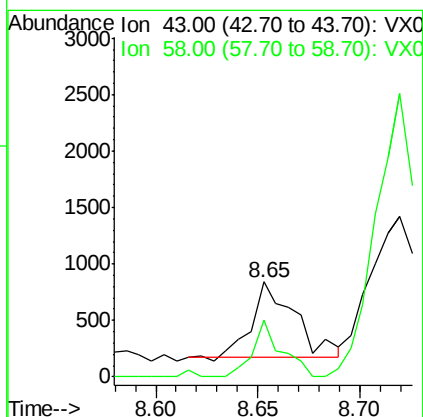
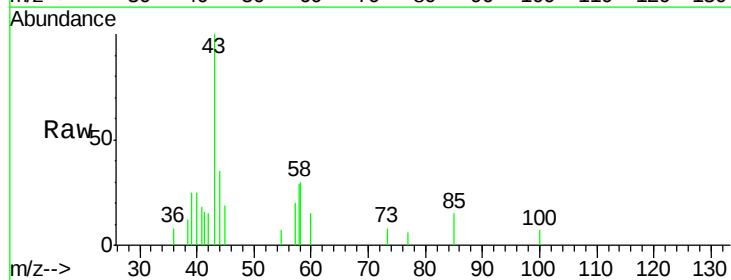
Instrument :
MSVOA_X
ClientSampleId :

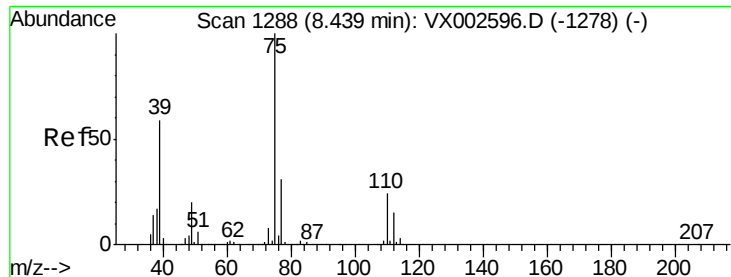
Tot Ion: 98 Resp: 444088
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion: 43 Resp: 977
Ion Ratio Lower Upper
43 100
58 50.2 28.6 42.8#

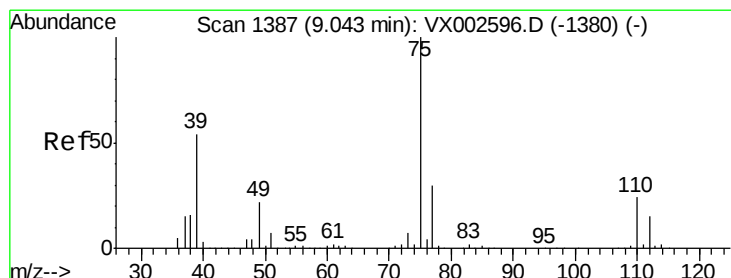
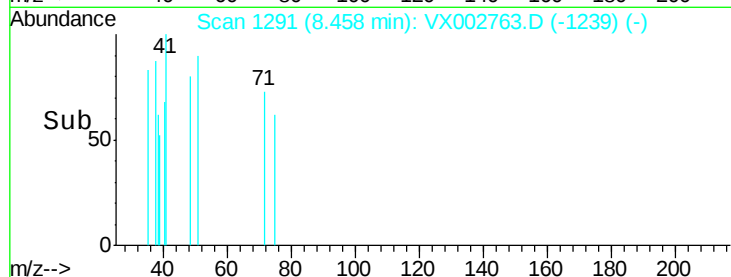
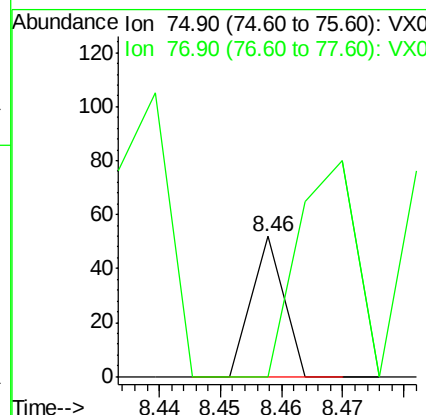
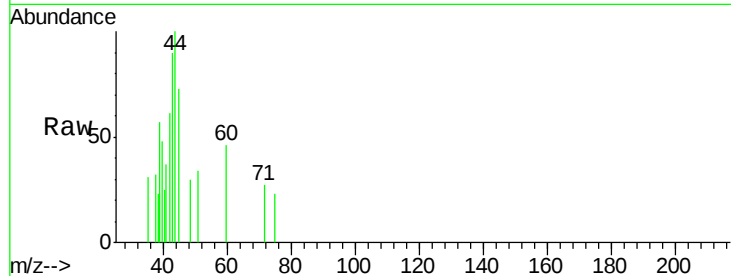




#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.46 min Scan# 1291
Delta R.T. 0.02 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

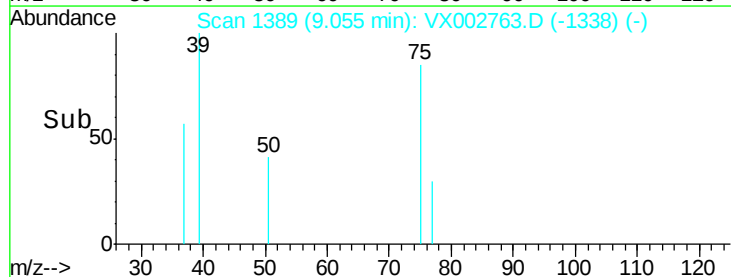
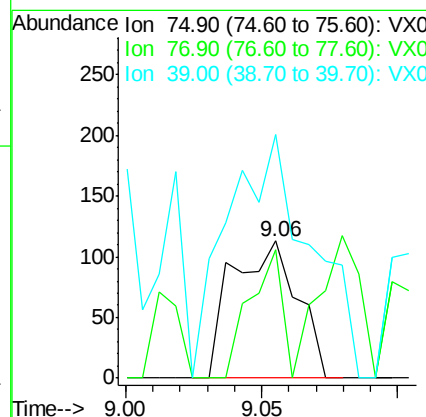
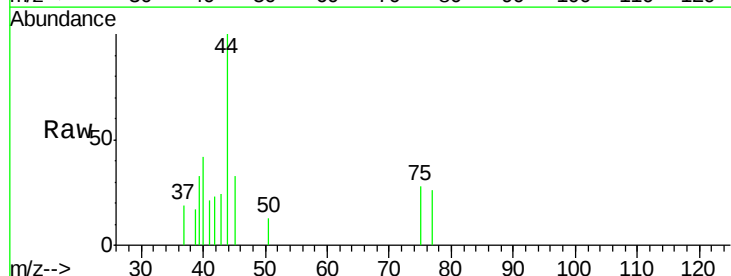
Instrument :
MSVOA_X
ClientSampled :

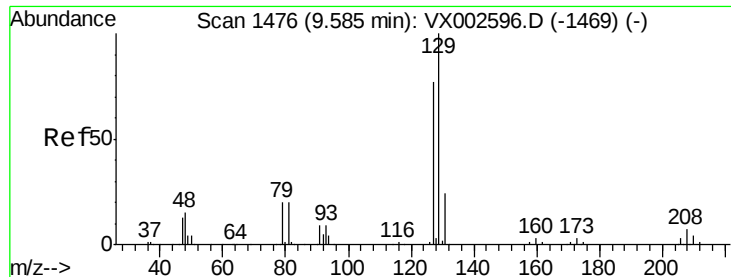
Tot Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 3.26 ug/l
RT: 9.06 min Scan# 1389
Delta R.T. 0.01 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion: 75 Resp: 187
Ion Ratio Lower Upper
75 100
77 93.8 24.8 37.2#
39 177.9 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.83 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

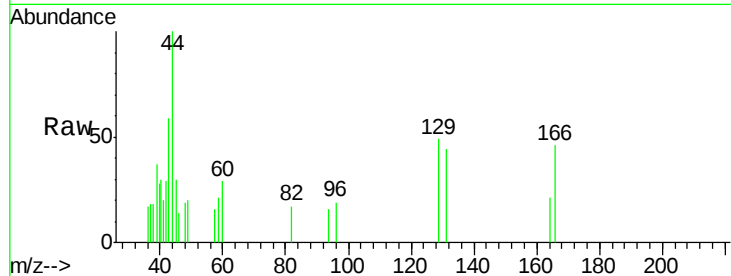
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 199

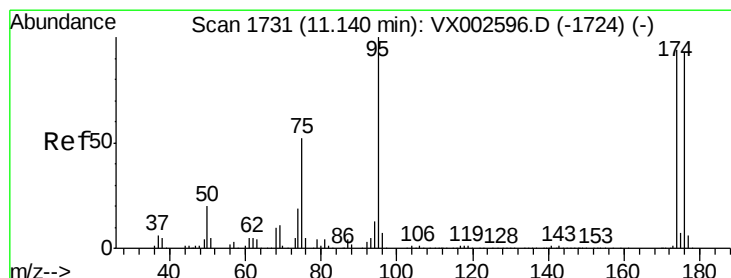
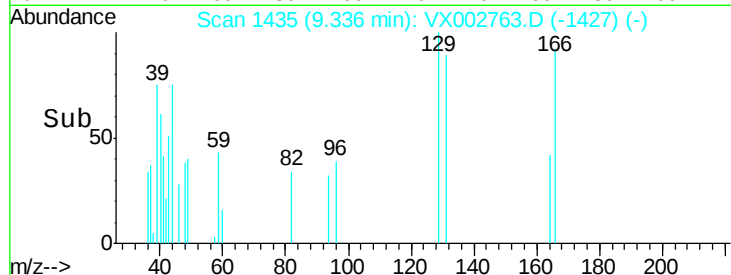
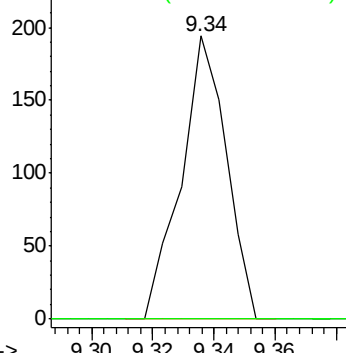
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

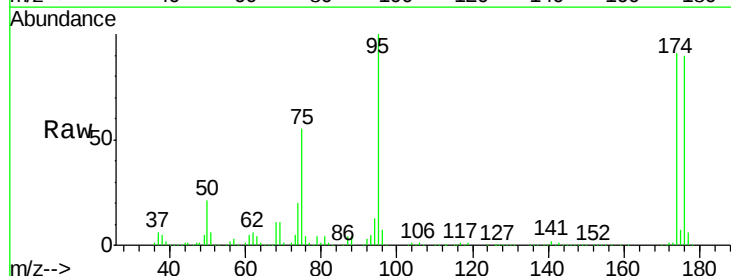
Tgt Ion: 95 Resp: 153949

Ion Ratio Lower Upper

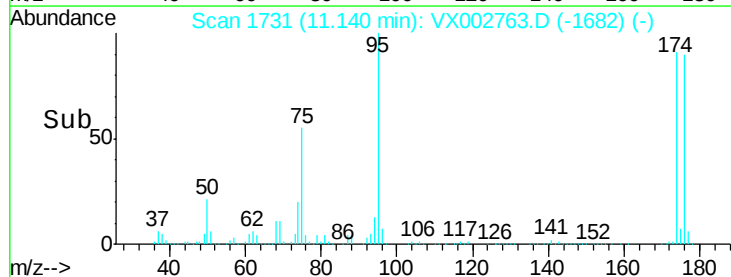
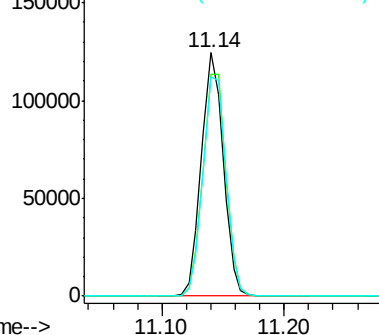
95 100

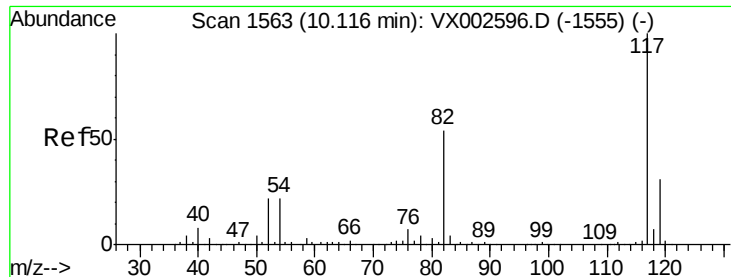
174 96.4 0.0 187.4

176 95.1 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

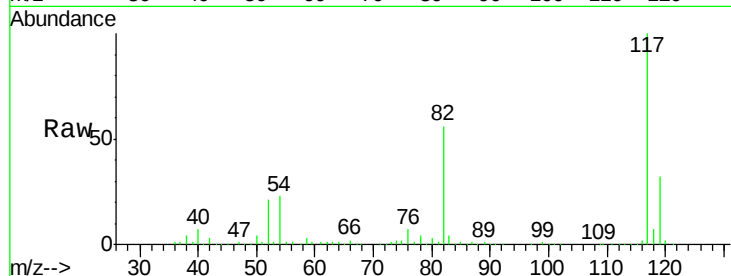




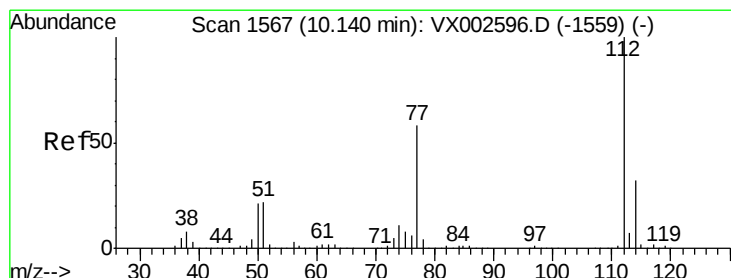
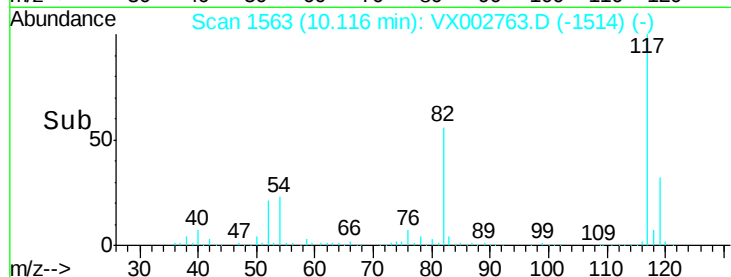
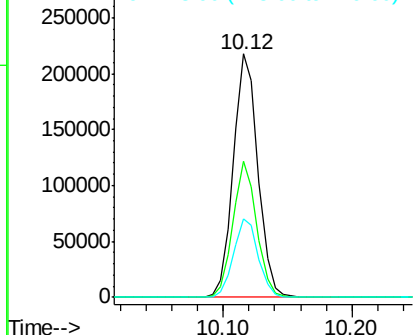
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 290004
Ion Ratio Lower Upper
117 100
82 55.7 45.0 67.4
119 32.2 25.8 38.6

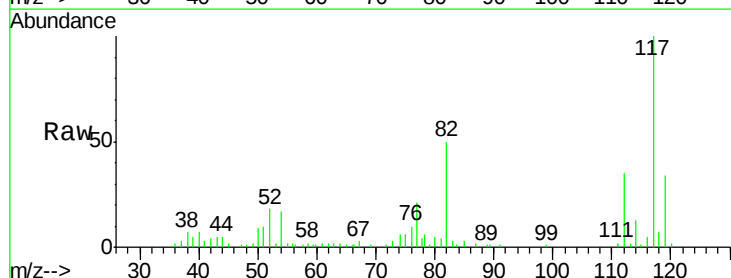


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

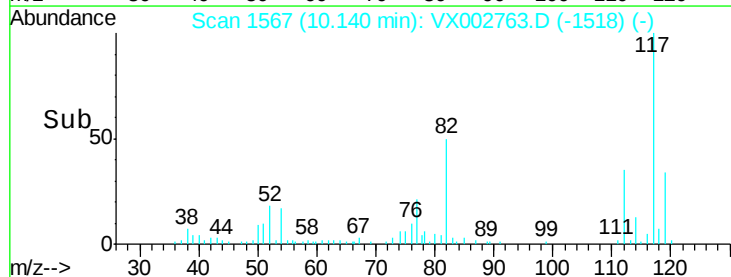
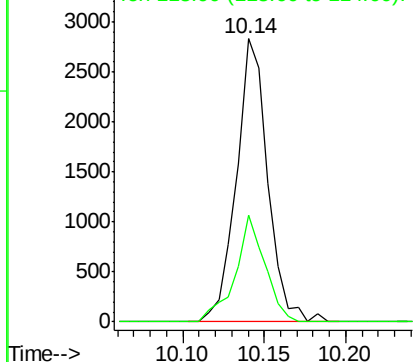


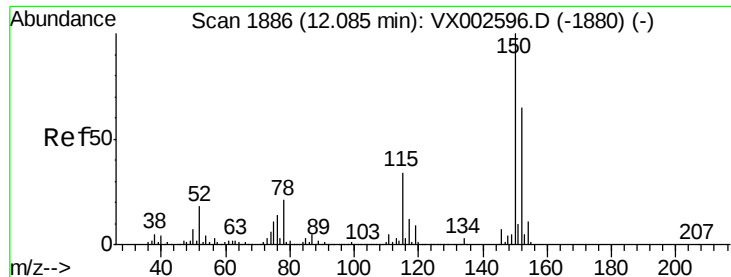
#65
Chlorobenzene
Concen: 0.53 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002763.D
Acq: 21 Jun 2018 01:39

Tgt Ion:112 Resp: 3782
Ion Ratio Lower Upper
112 100
114 37.8 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: VX002763.D

Acq: 21 Jun 2018 01:39

Instrument :

MSVOA_X

ClientSampled :

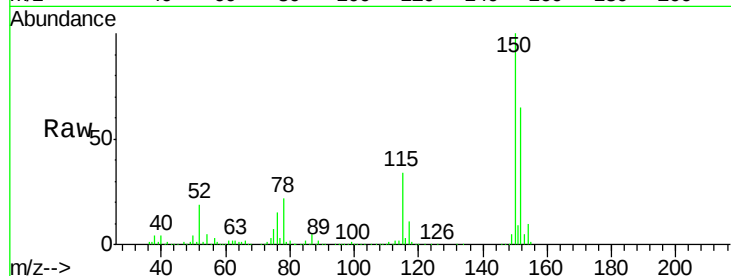
Tot Ion:152 Resp: 165891

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

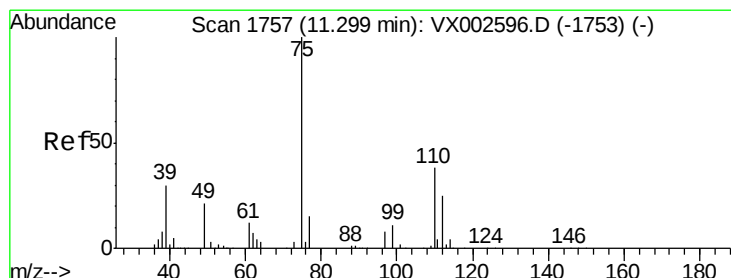
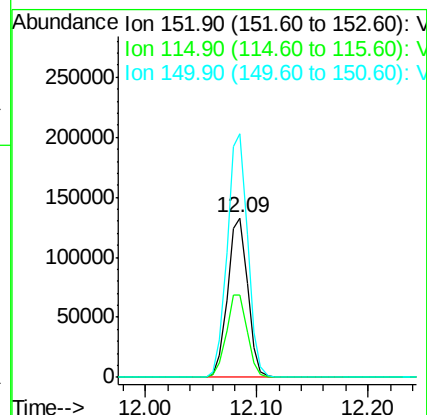
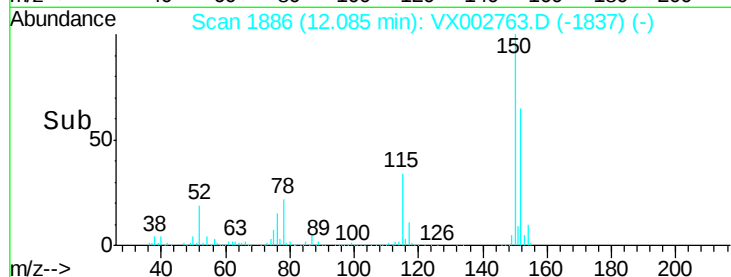
150 155.1 0.0 347.2



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: 26.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002763.D

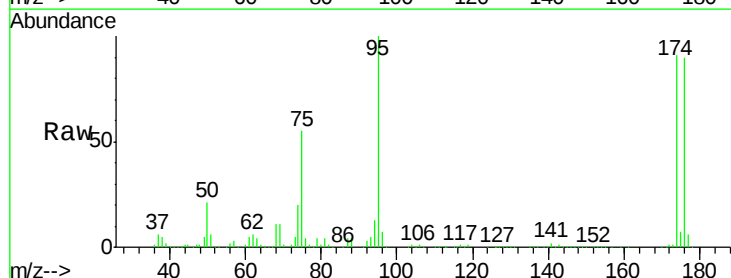
Acq: 21 Jun 2018 01:39

Tgt Ion: 75 Resp: 82437

Ion Ratio Lower Upper

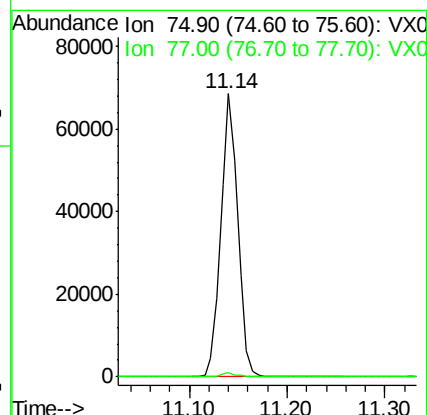
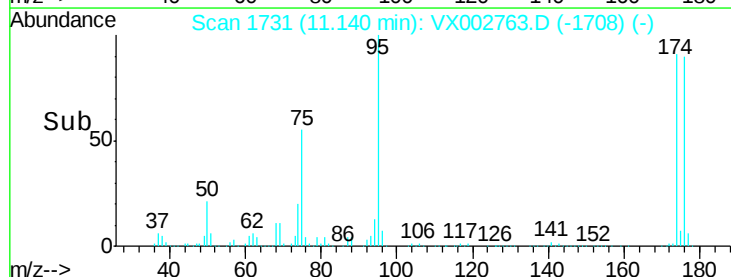
75 100

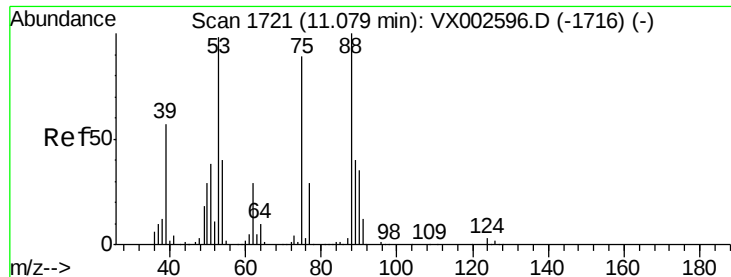
77 1.3 22.8 68.3#



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: 81.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

Instrument :

MSVOA_X

ClientSampleId :

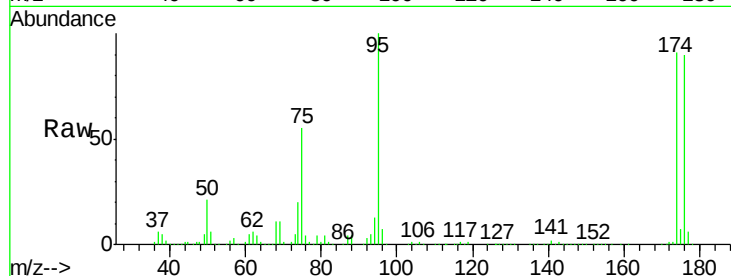
Tot Ion: 75 Resp: 82437

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

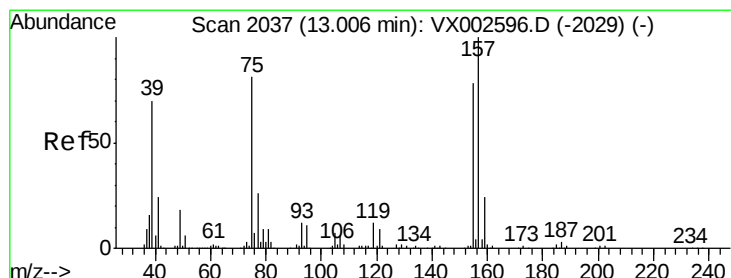
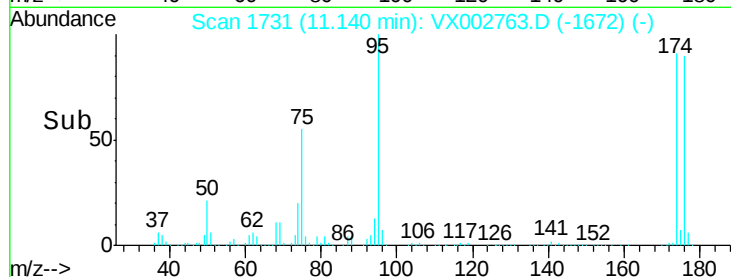
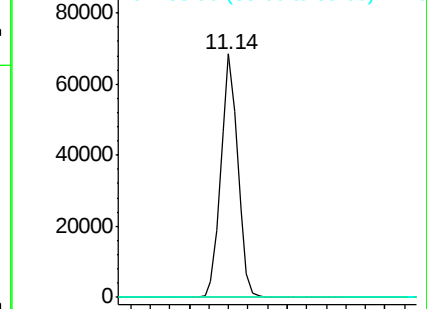
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.55 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002763.D

Acq: 21 Jun 2018 01:39

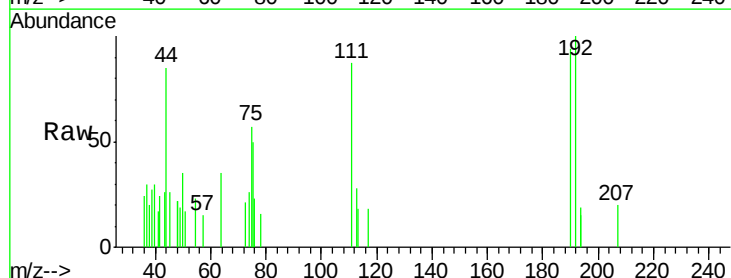
Tgt Ion: 75 Resp: 375

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

