

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002809.D
 Acq On : 22 Jun 2018 01:21
 Operator : JC/MD
 Sample : PB110441ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 02:24:45 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	228539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	321979	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	301485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168556	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	156380	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	
35) Dibromofluoromethane	5.51	113	121649	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	8.72	98	456356	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
62) 4-Bromofluorobenzene	11.14	95	159095	43.03	ug/l	0.00
Spiked Amount			Recovery	=	86.06%	

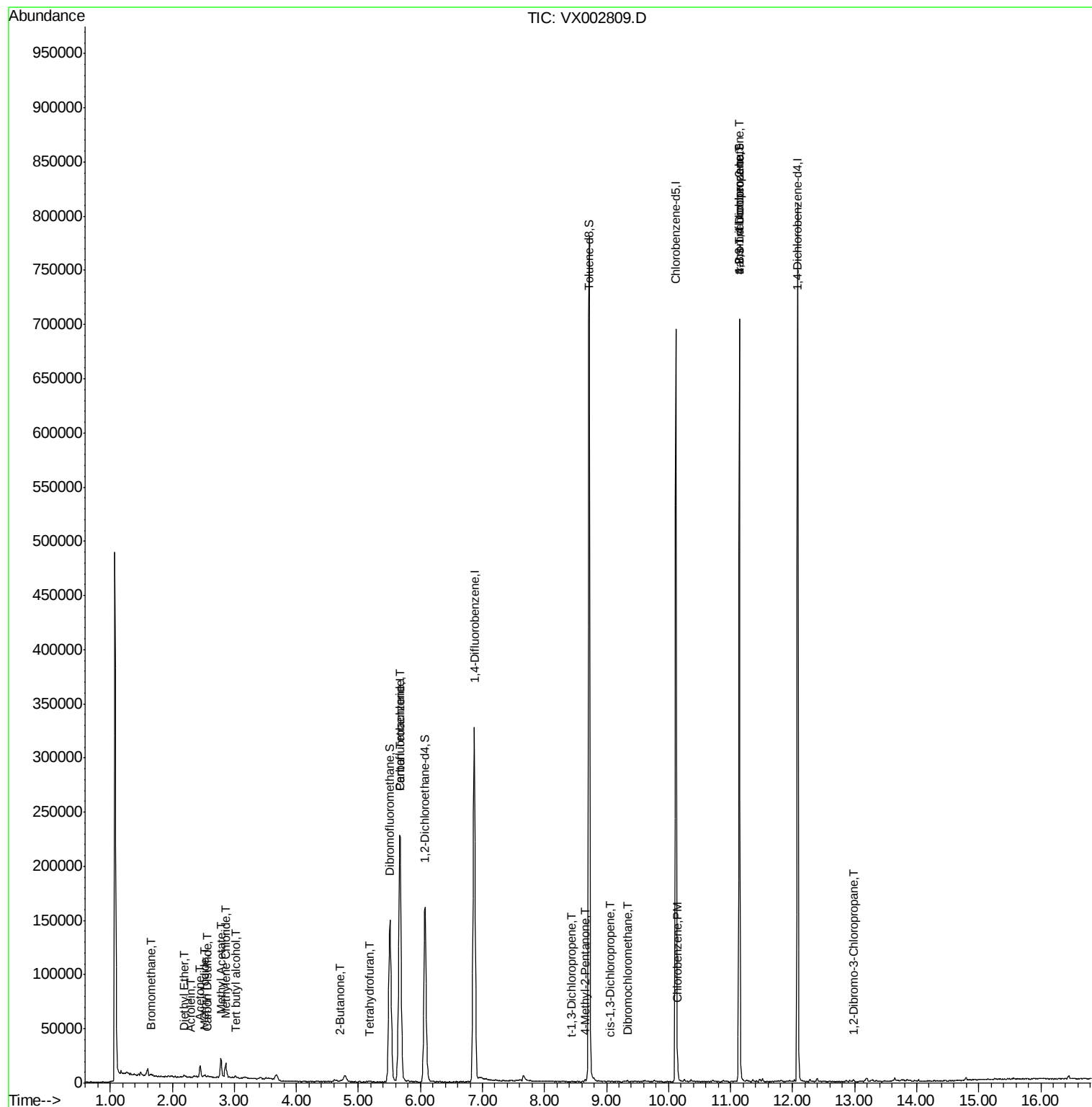
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1199	0.66	ug/l	83
8) Diethyl Ether	2.20	74	751	0.41	ug/l	92
10) Methyl Iodide	2.52	142	2319	5.75	ug/l	96
11) Tert butyl alcohol	3.03	59	1146	1.60	ug/l #	89
13) Acrolein	2.30	56	271	7.65	ug/l	84
16) Acetone	2.45	43	12145	7.93	ug/l	93
17) Carbon Disulfide	2.57	76	1406	0.23	ug/l	98
18) Methyl Acetate	2.78	43	20908	5.12	ug/l	100
20) Methylene Chloride	2.86	84	6337	2.02	ug/l	96
25) 2-Butanone	4.71	43	2651	1.32	ug/l #	88
29) Tetrahydrofuran	5.17	42	450	0.34	ug/l #	74
38) Carbon Tetrachloride	5.67	117	20837	6.12	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	1109	0.27	ug/l	90
53) t-1,3-Dichloropropene	8.45	75	146	2.43	ug/l #	88
54) cis-1,3-Dichloropropene	9.05	75	162	3.25	ug/l #	54
60) Dibromochloromethane	9.34	129	257	3.84	ug/l #	11
65) Chlorobenzene	10.15	112	3183	0.43	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	85144	26.77	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85144	82.67	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.99	75	313	0.45	ug/l #	1

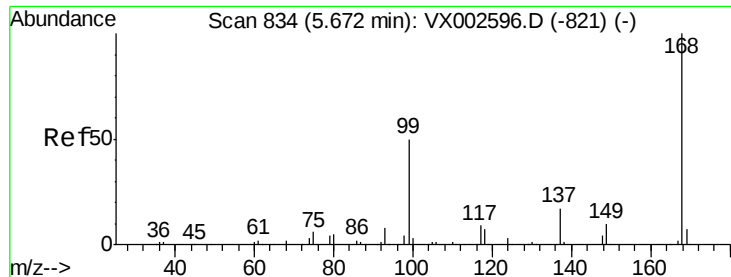
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Jun 22 02:24:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
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: VX002809.D

Acq: 22 Jun 2018 01:21

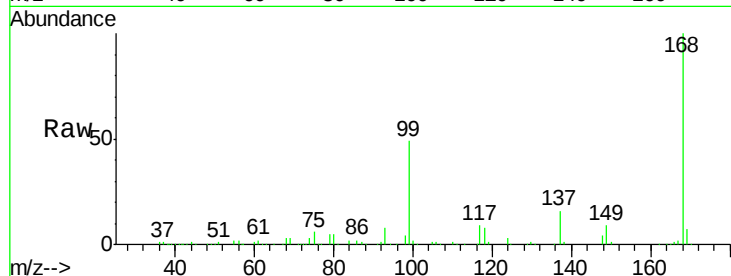
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 228539

Ion Ratio Lower Upper

168 100

99 49.1 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

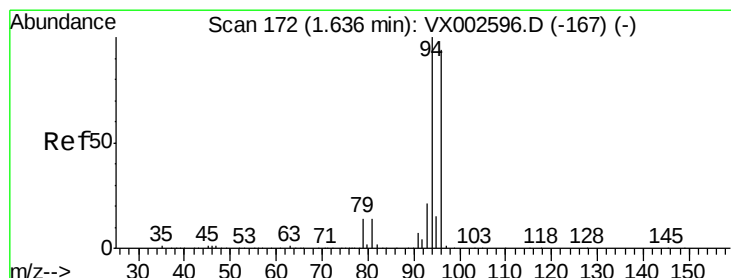
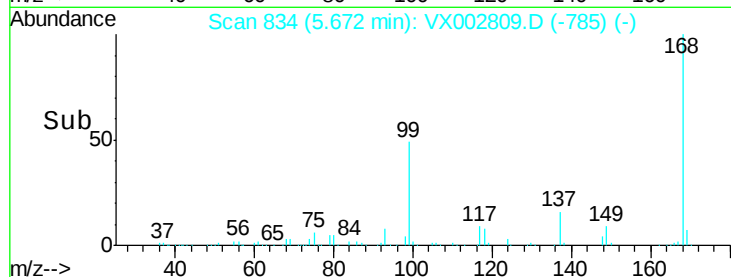
Time-->

5.50

5.60

5.70

5.80



#5

Bromomethane

Concen: 0.66 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002809.D

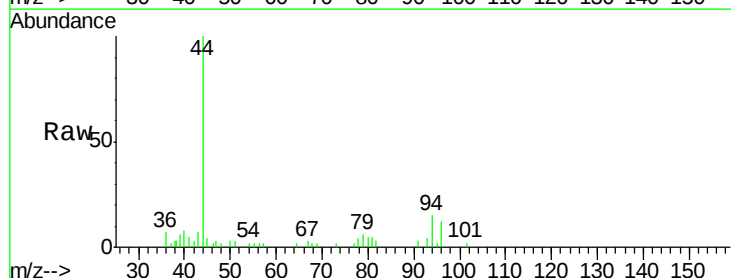
Acq: 22 Jun 2018 01:21

Tgt Ion: 94 Resp: 1199

Ion Ratio Lower Upper

94 100

96 77.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

300

200

100

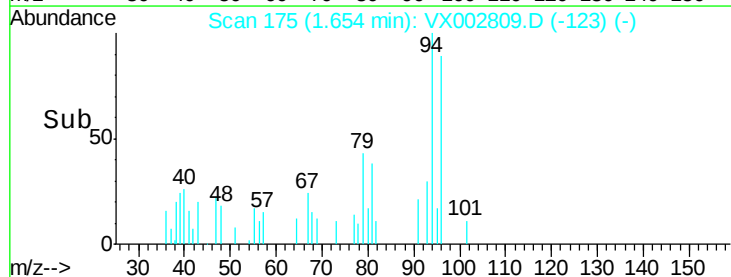
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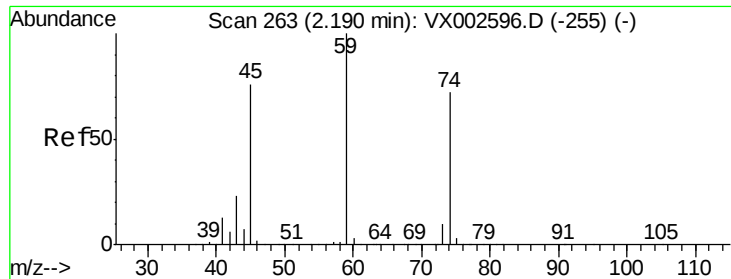
Time-->

1.60

1.65

1.70





#8

Diethyl Ether

Concen: 0.41 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

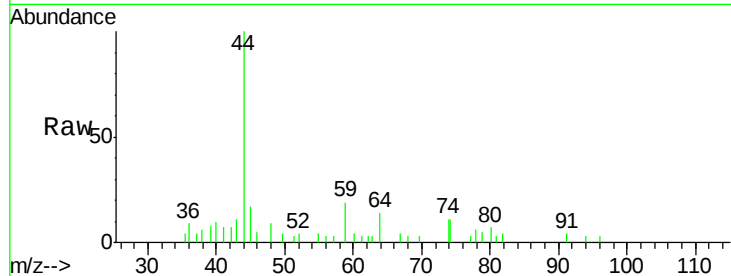
ClientSampleId :

Tot Ion: 74 Resp: 751

Ion Ratio Lower Upper

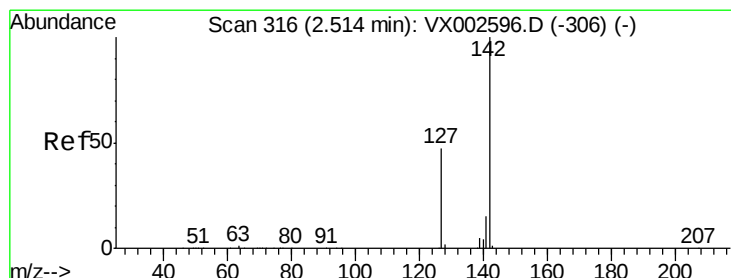
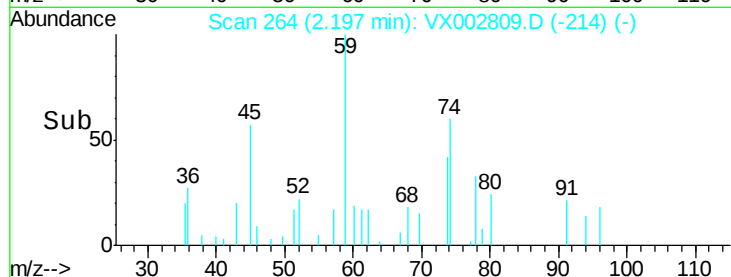
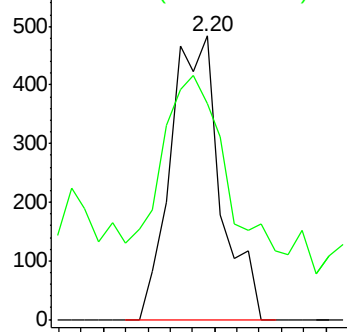
74 100

45 98.4 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.75 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

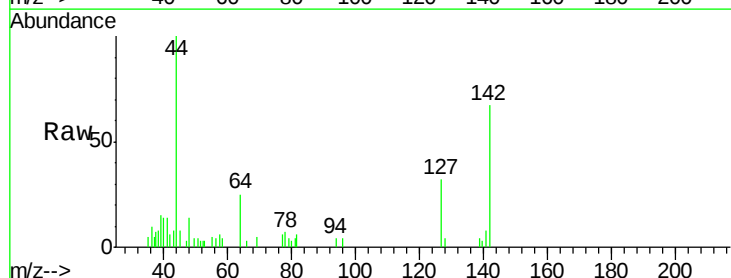
Tgt Ion:142 Resp: 2319

Ion Ratio Lower Upper

142 100

127 48.8 36.6 55.0

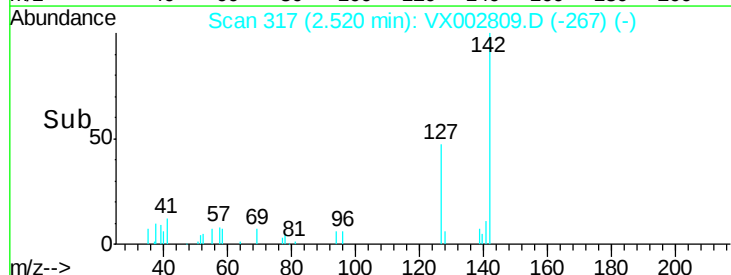
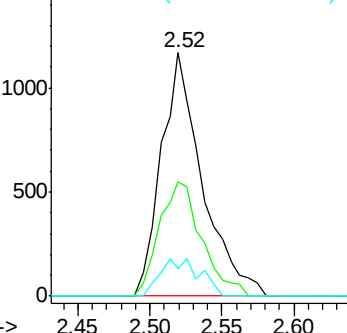
141 14.7 11.3 16.9

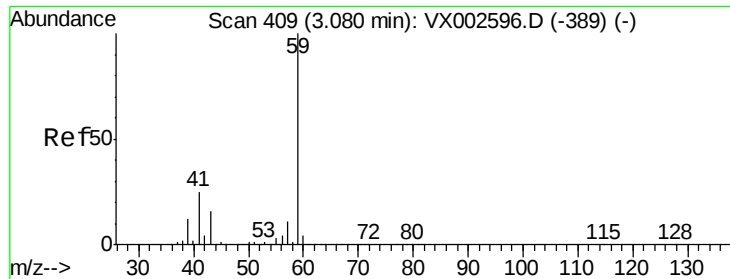


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

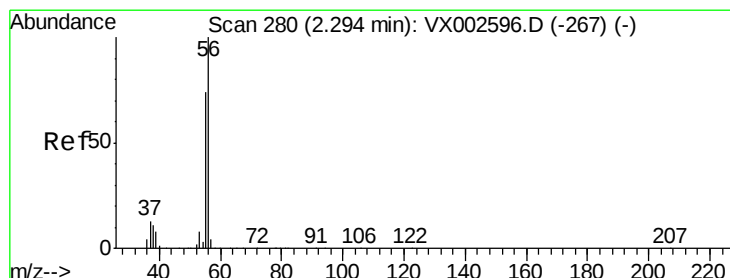
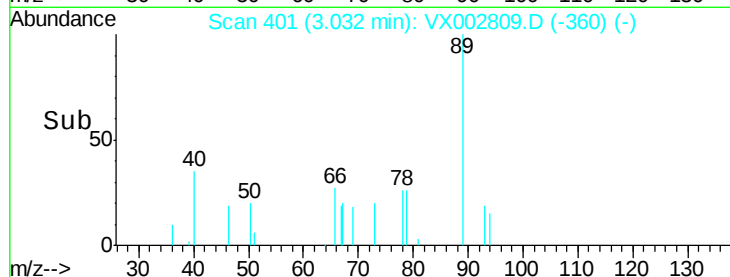
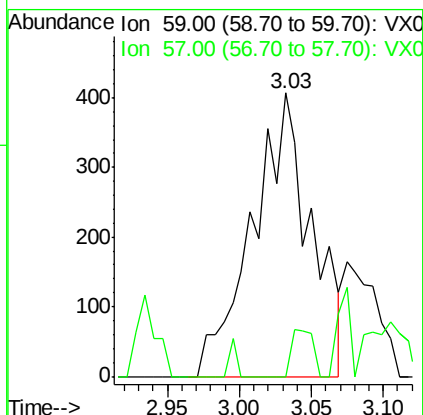
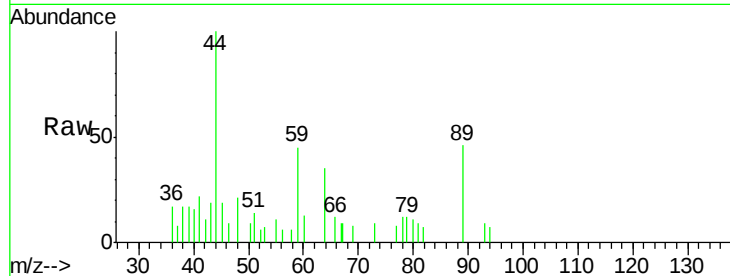




#11
Tert butyl alcohol
Concen: 1.60 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

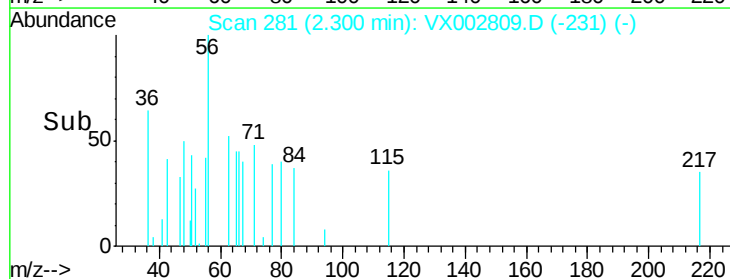
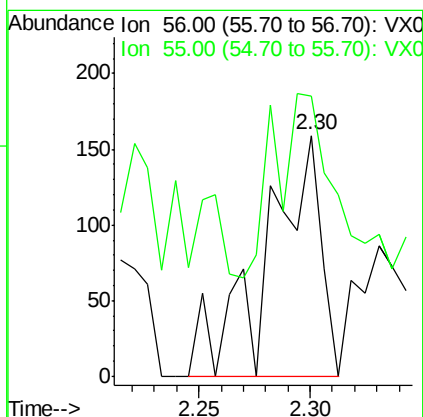
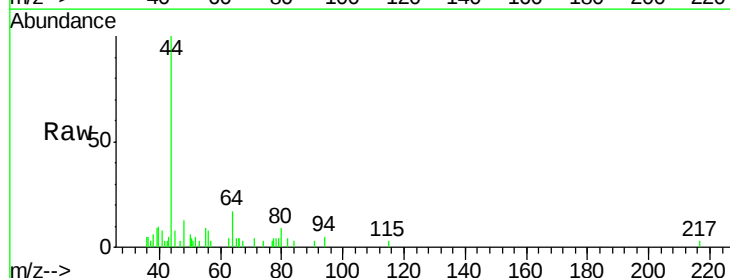
Instrument :
MSVOA_X
ClientSampled :

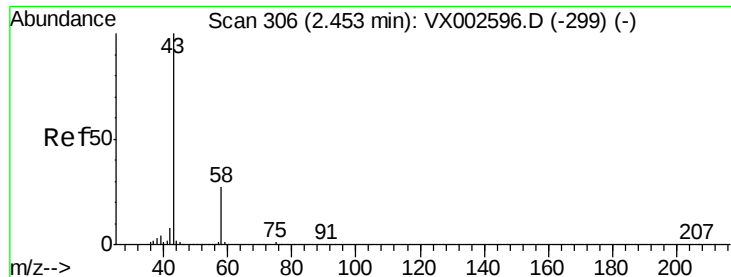
Tot Ion: 59 Resp: 1146
Ion Ratio Lower Upper
59 100
57 6.2 8.2 12.2#



#13
Acrolein
Concen: 7.65 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

Tgt Ion: 56 Resp: 271
Ion Ratio Lower Upper
56 100
55 84.5 57.0 85.4





#16

Acetone

Concen: 7.93 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

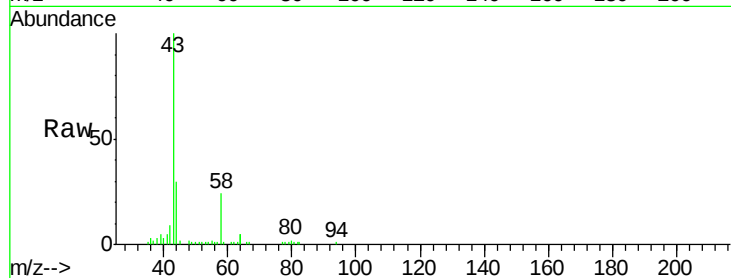
ClientSampleId :

Tot Ion: 43 Resp: 12145

Ion Ratio Lower Upper

43 100

58 24.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

8000

6000

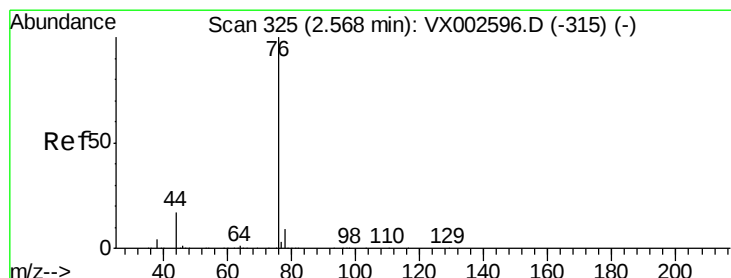
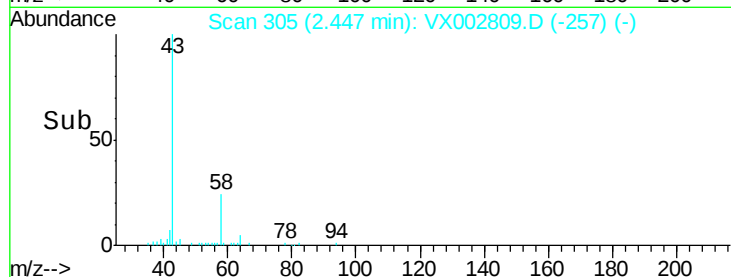
4000

2000

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002809.D

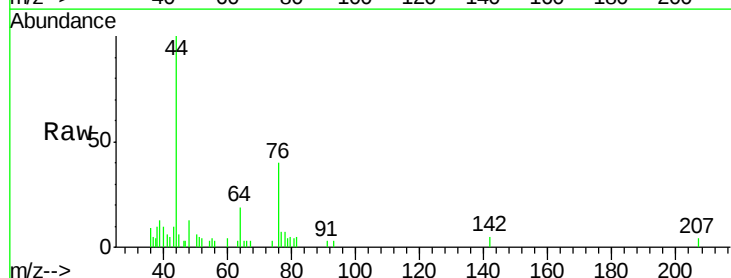
Acq: 22 Jun 2018 01:21

Tgt Ion: 76 Resp: 1406

Ion Ratio Lower Upper

76 100

78 8.0 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

800

600

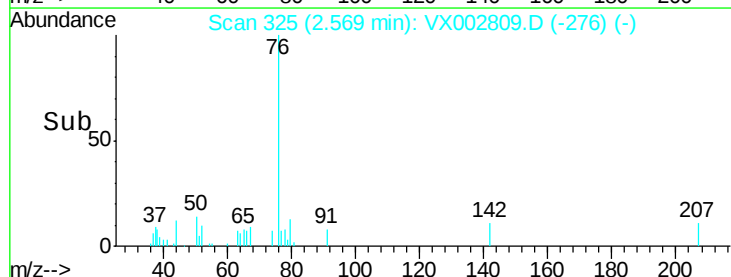
400

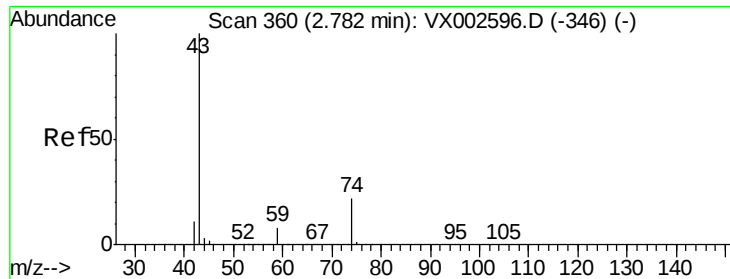
200

0

Time-->

2.50 2.55 2.60 2.65

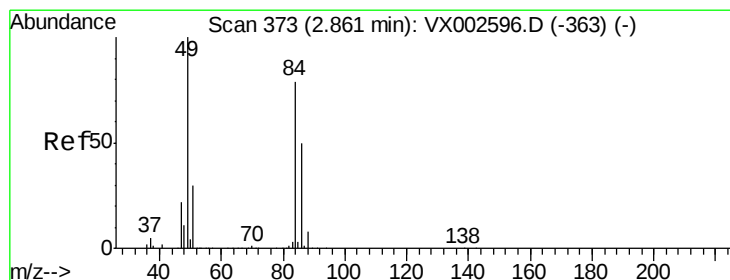
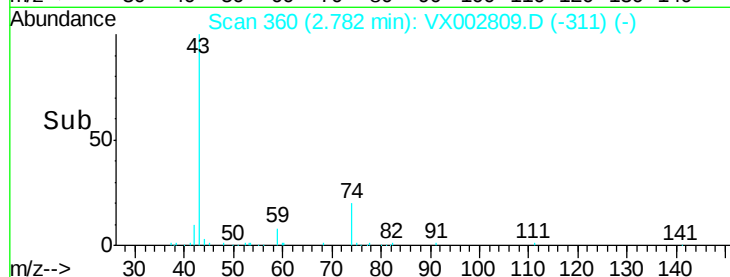
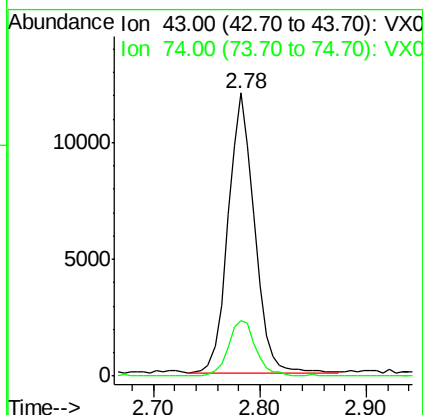
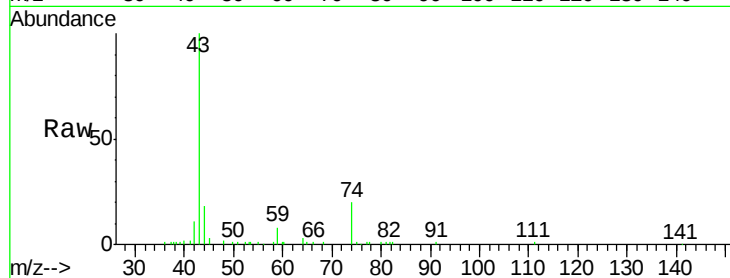




#18
Methvl Acetate
Concen: 5.12 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

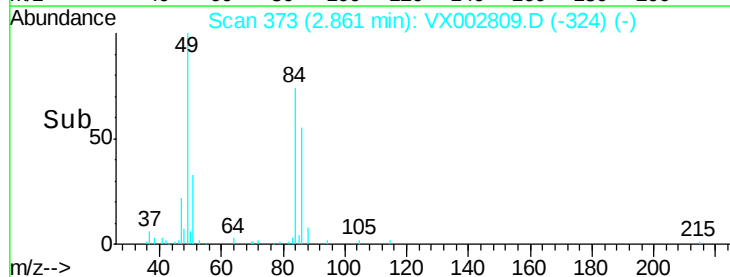
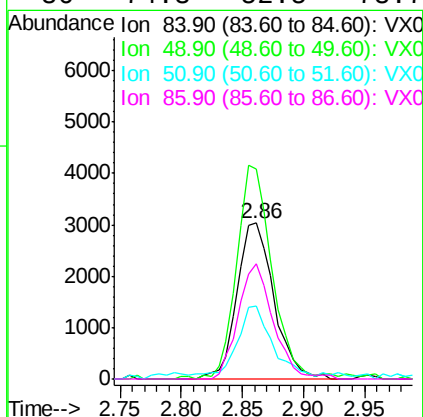
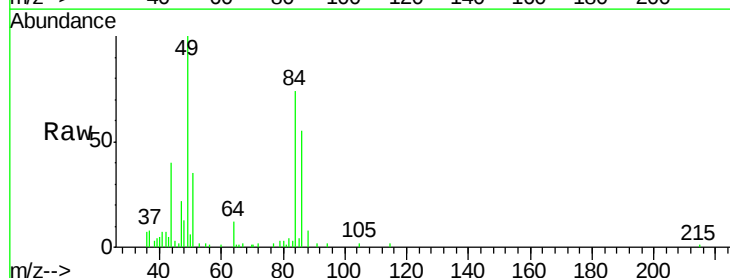
Instrument :
MSVOA_X
ClientSampleId :

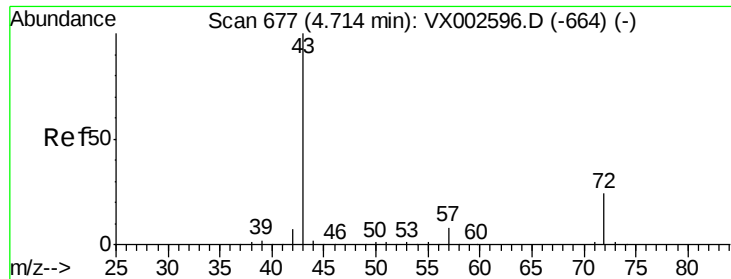
Tot Ion: 43 Resp: 20908
Ion Ratio Lower Upper
43 100
74 20.8 16.7 25.1



#20
Methylene Chloride
Concen: 2.02 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

Tgt Ion: 84 Resp: 6337
Ion Ratio Lower Upper
84 100
49 133.5 107.8 161.6
51 42.9 32.8 49.2
86 74.3 52.5 78.7





#25

2-Butanone

Concen: 1.32 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

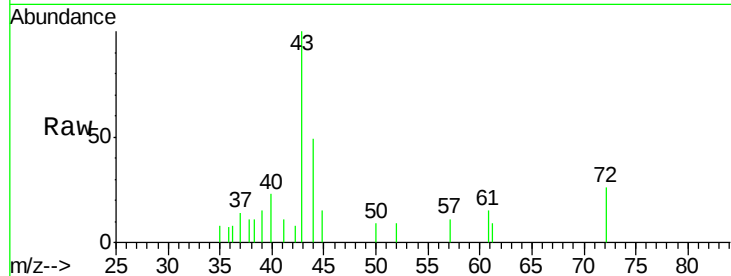
ClientSampled :

Tot Ion: 43 Resp: 2651

Ion Ratio Lower Upper

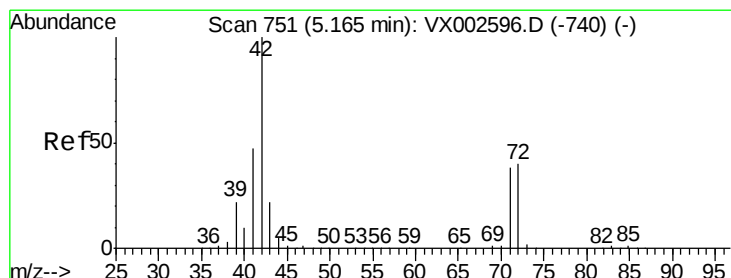
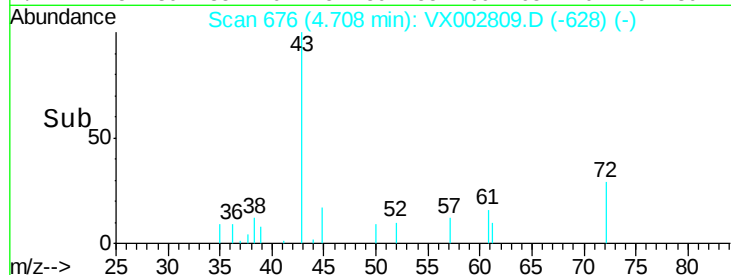
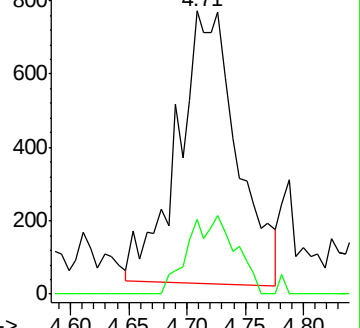
43 100

72 28.8 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

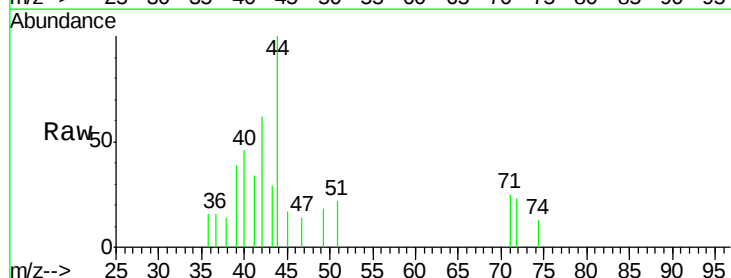
Tgt Ion: 42 Resp: 450

Ion Ratio Lower Upper

42 100

72 10.9 32.0 48.0#

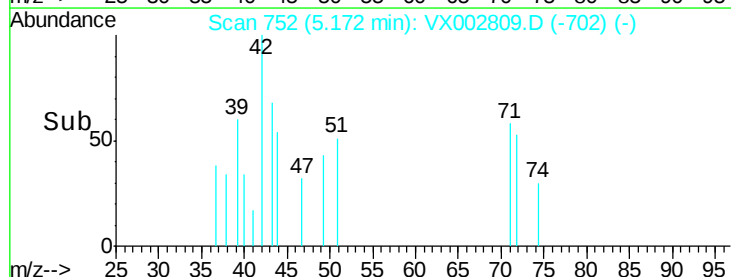
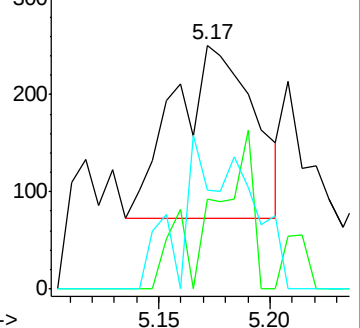
71 40.2 30.1 45.1

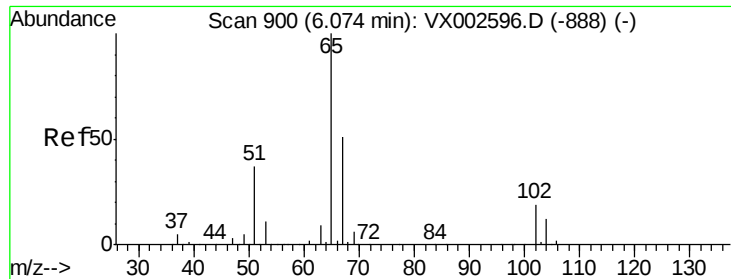


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

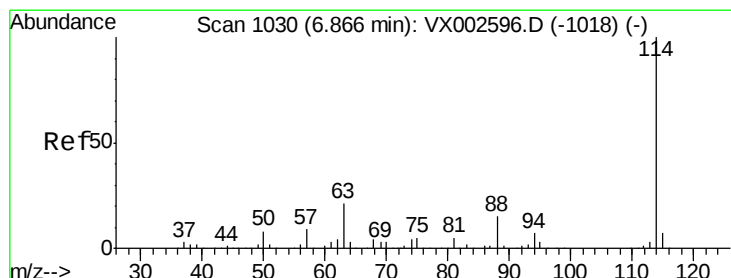
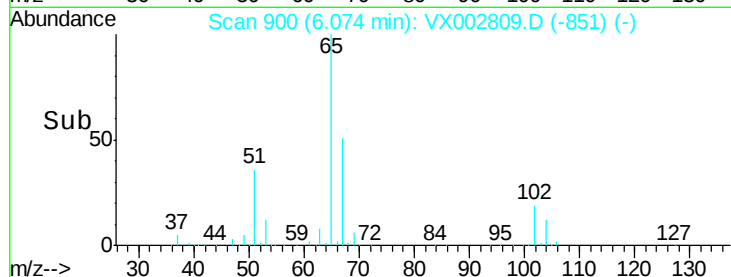
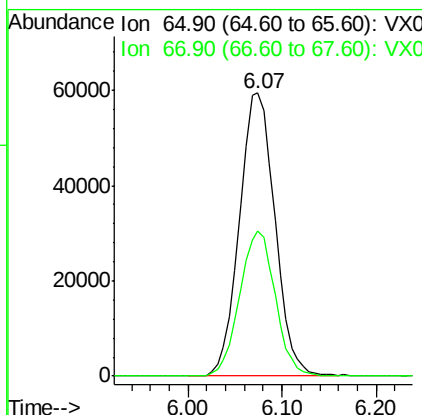
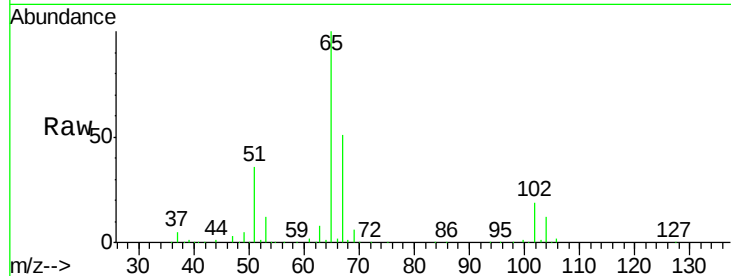




#33
 1,2-Dichloroethane-d4
 Concen: 45.03 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002809.D
 Acq: 22 Jun 2018 01:21

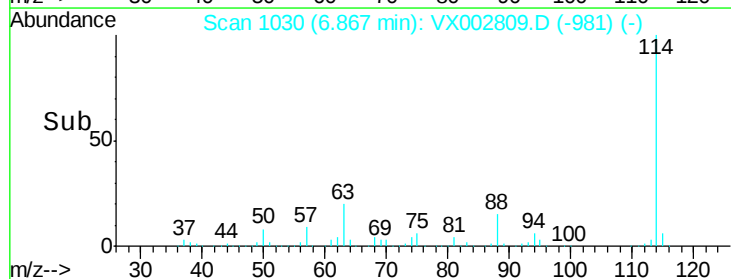
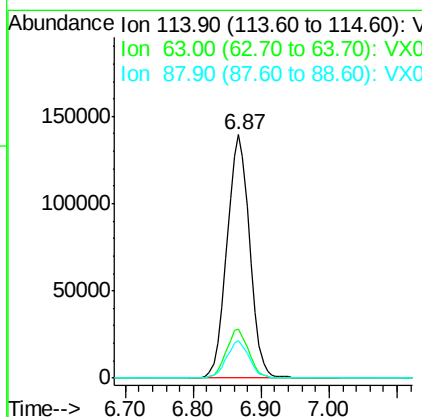
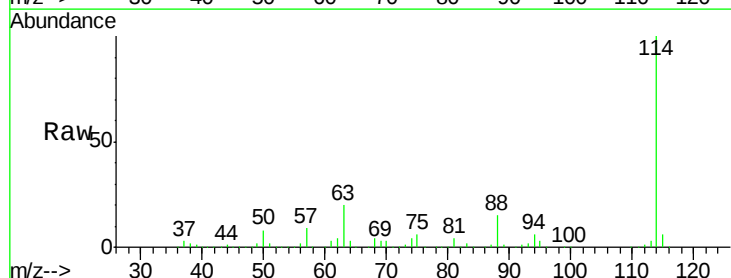
Instrument :
 MSVOA_X
 ClientSampleId :

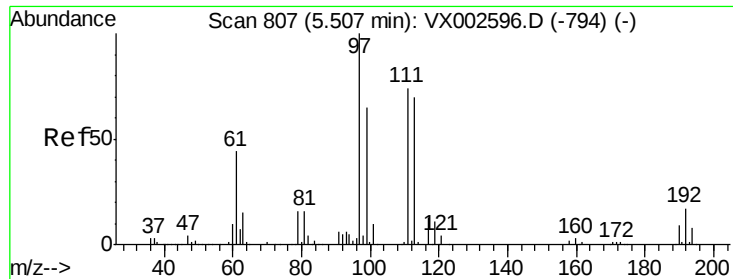
Tot Ion: 65 Resp: 156380
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002809.D
 Acq: 22 Jun 2018 01:21

Tgt Ion: 114 Resp: 321979
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.3 0.0 30.0

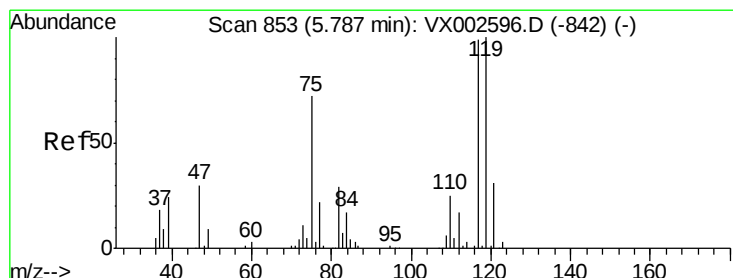
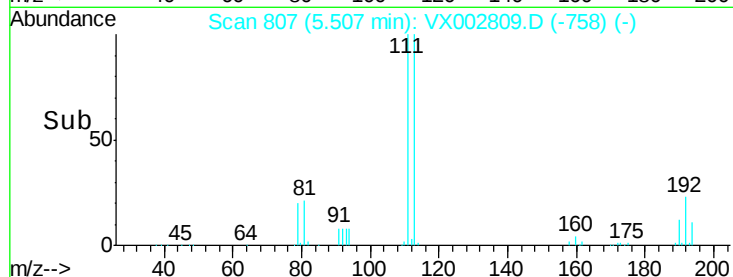
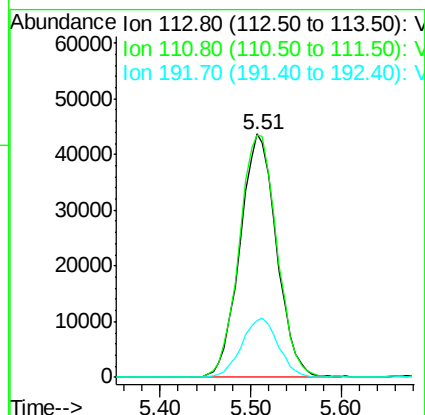
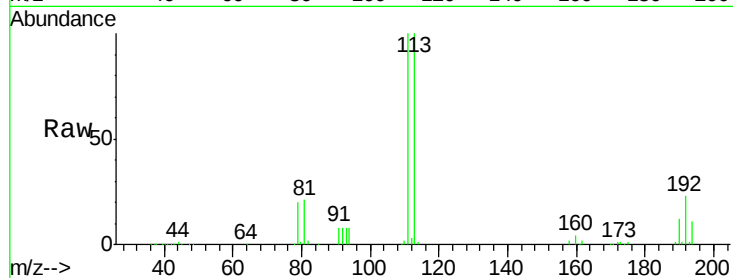




#35
 Dibromofluoromethane
 Concen: 47.34 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002809.D
 Acq: 22 Jun 2018 01:21

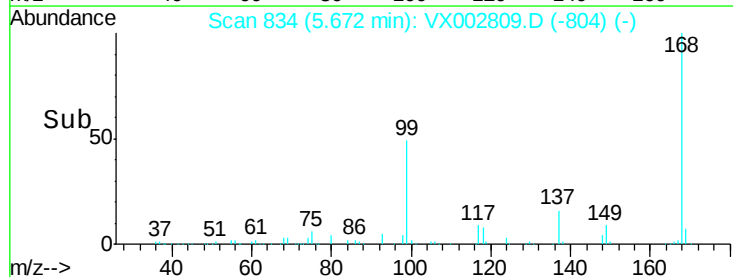
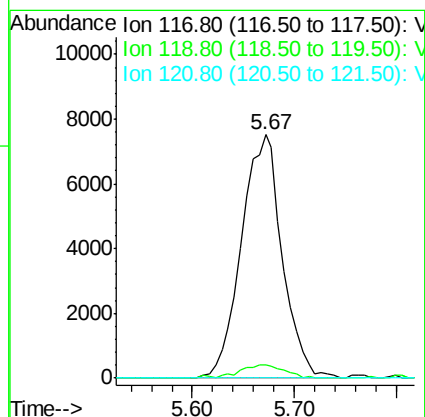
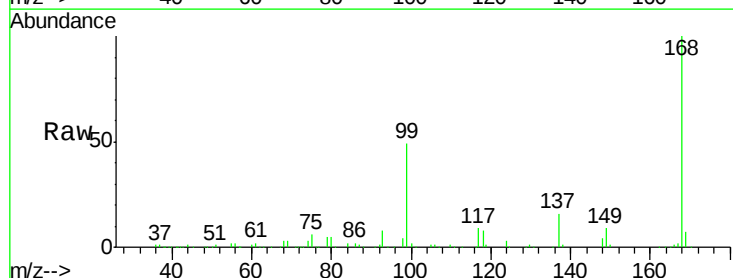
Instrument :
 MSVOA_X
 ClientSampled :

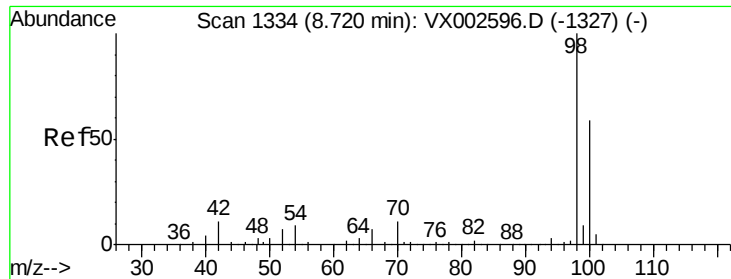
Tot Ion:113 Resp: 121649
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.4 122.0
 192 24.4 19.1 28.7



#38
 Carbon Tetrachloride
 Concen: 6.12 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002809.D
 Acq: 22 Jun 2018 01:21

Tgt Ion:117 Resp: 20837
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.4 116.0#
 121 0.0 24.4 36.6#

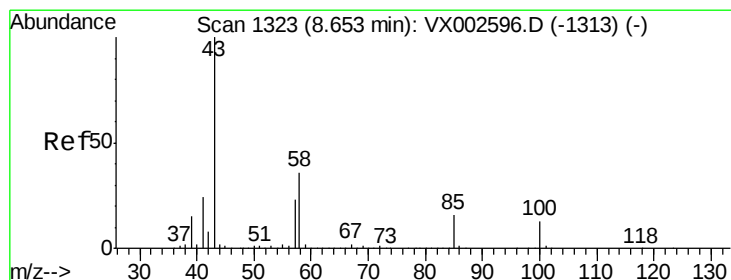
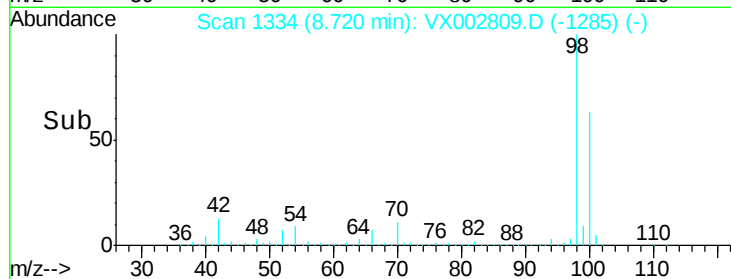
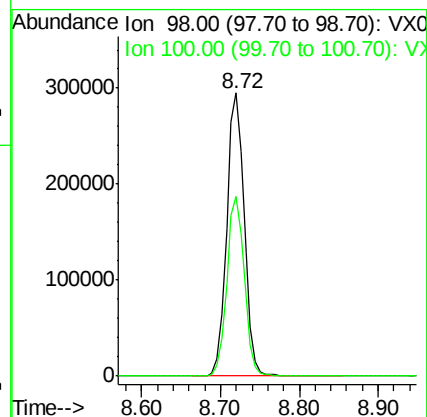
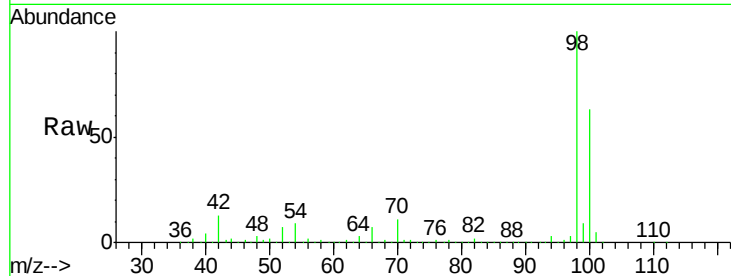




#50
Toluene-d8
Concen: 46.77 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

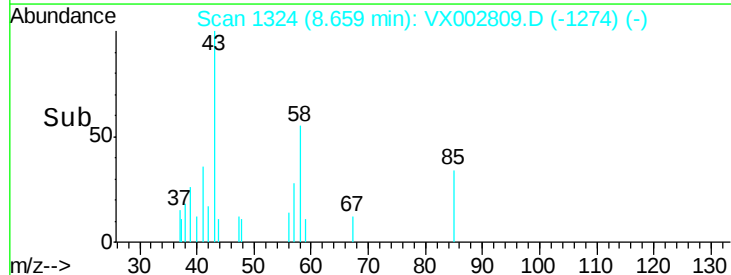
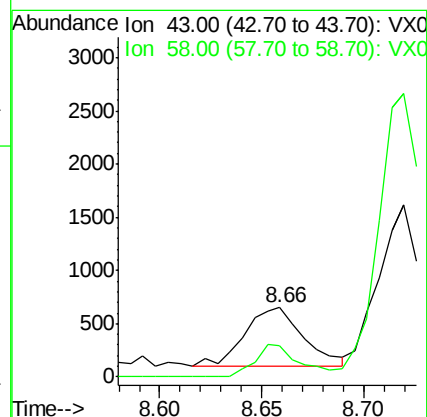
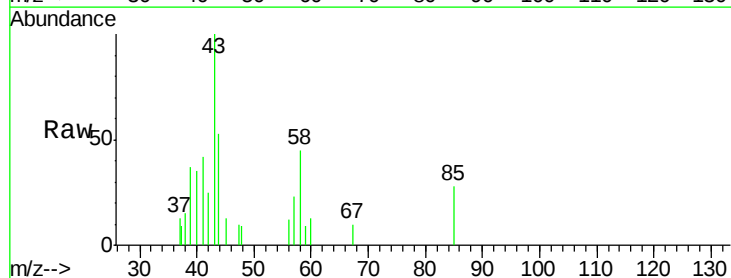
Instrument :
MSVOA_X
ClientSampleId :

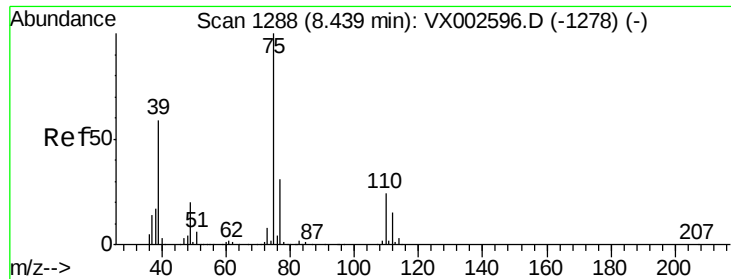
Tot Ion: 98 Resp: 456356
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.27 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

Tgt Ion: 43 Resp: 1109
Ion Ratio Lower Upper
43 100
58 41.5 28.6 42.8





#53

t-1,3-Dichloropropene

Concen: 2.43 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

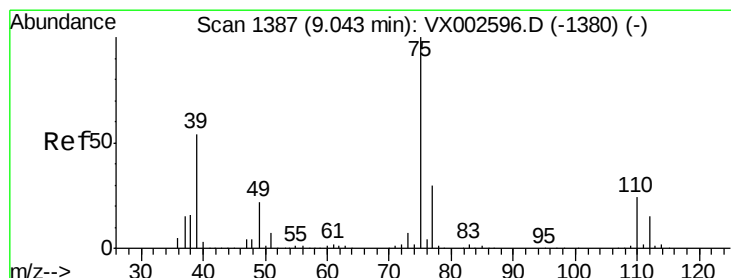
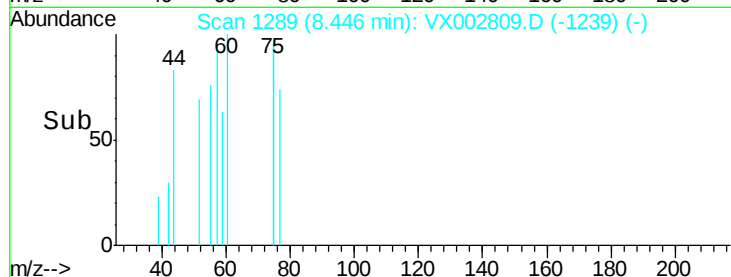
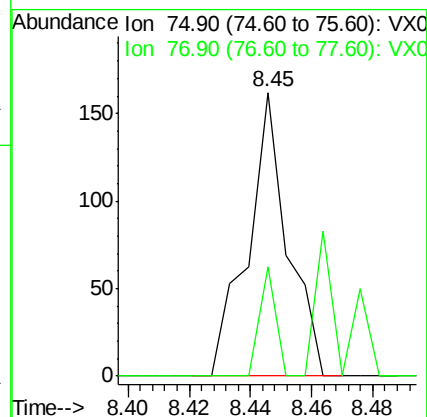
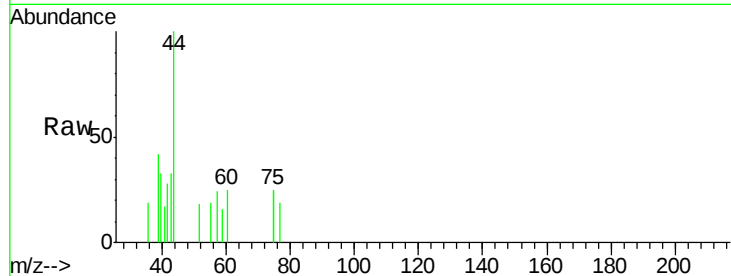
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 146

Ion Ratio Lower Upper

75 100

77 38.3 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.25 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

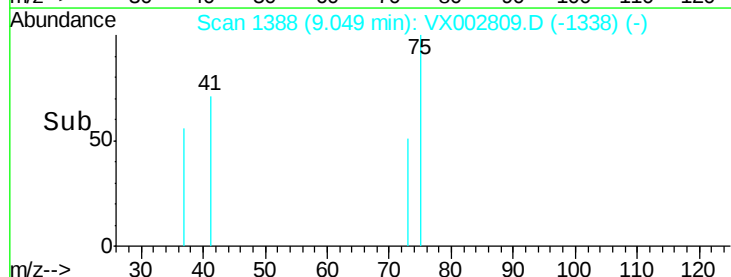
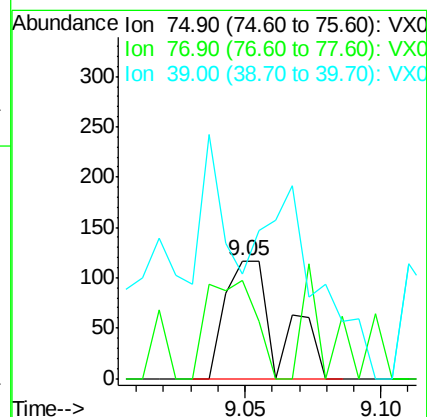
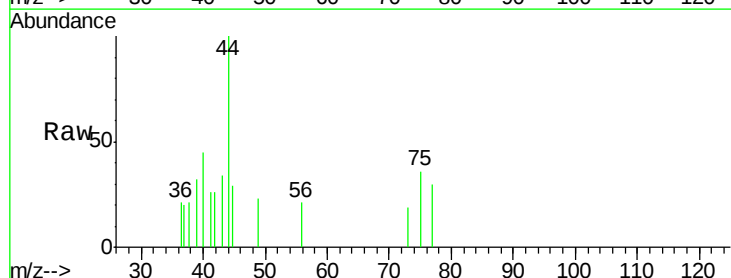
Tgt Ion: 75 Resp: 162

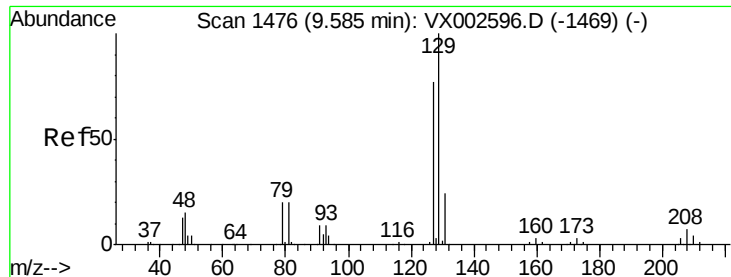
Ion Ratio Lower Upper

75 100

77 82.9 24.8 37.2#

39 40.2 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.84 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

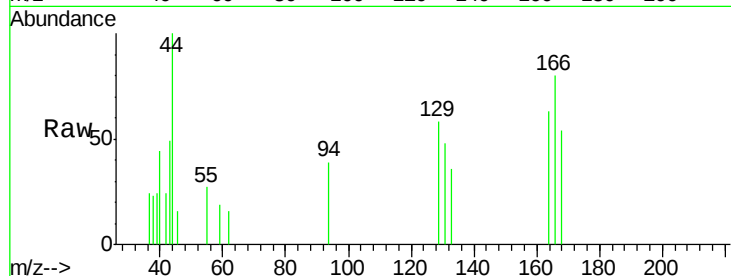
ClientSampled :

Tot Ion:129 Resp: 257

Ion Ratio Lower Upper

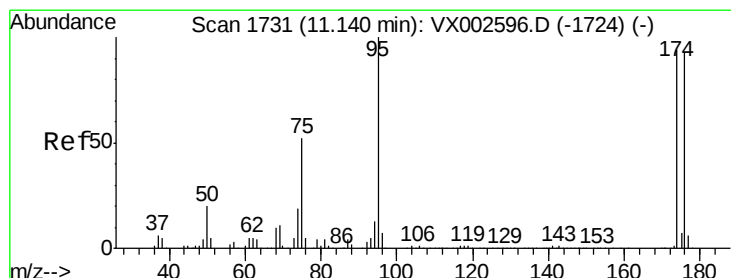
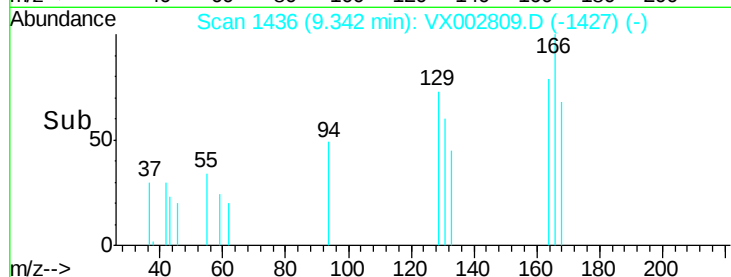
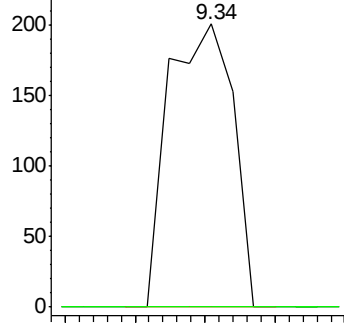
129 100

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: 43.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

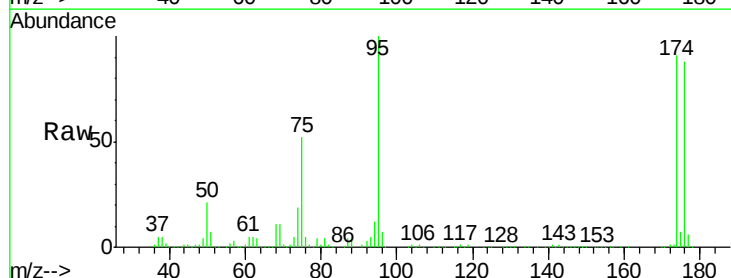
Tgt Ion: 95 Resp: 159095

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

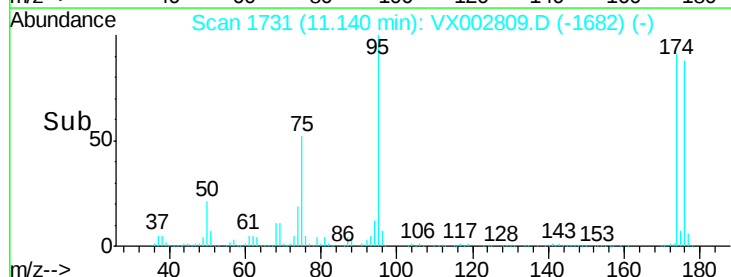
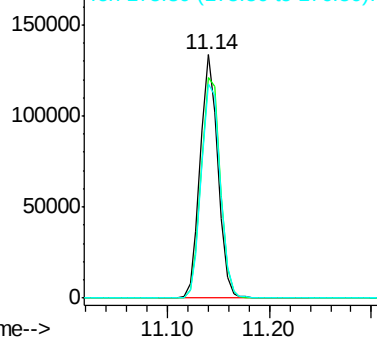
176 94.5 0.0 181.0

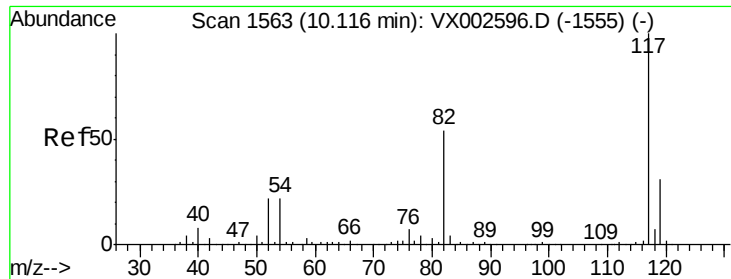


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

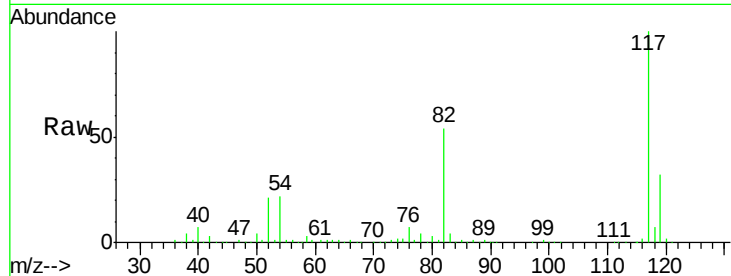




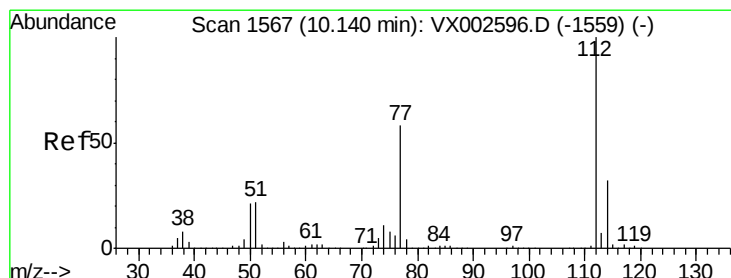
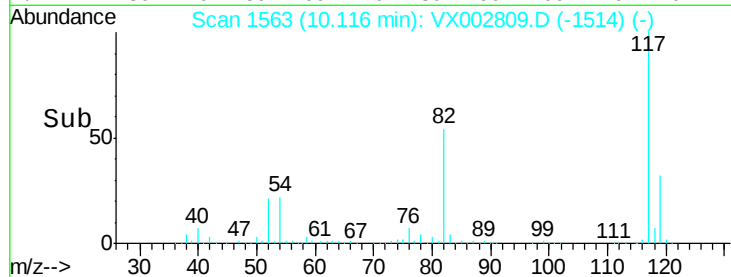
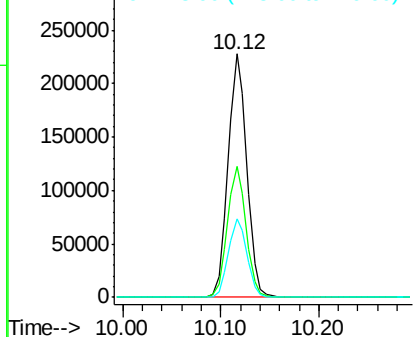
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 301485
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.3 25.8 38.6

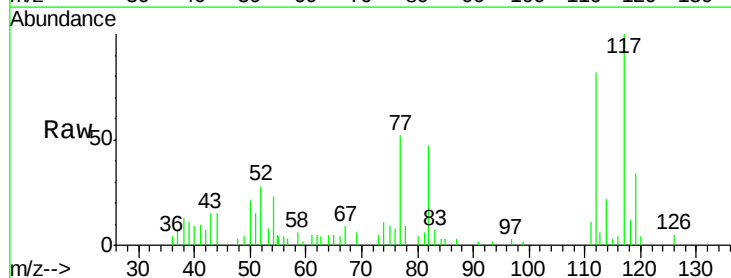


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

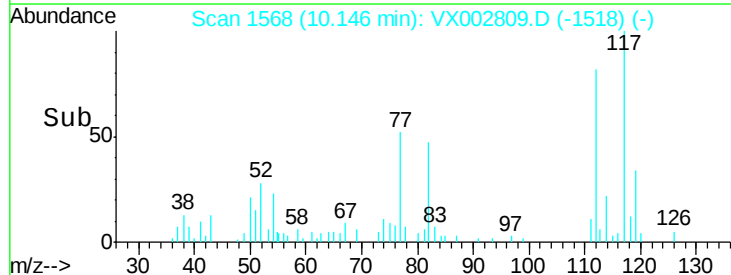
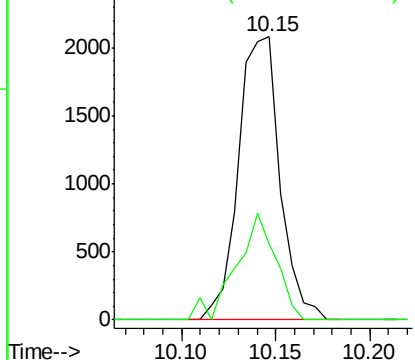


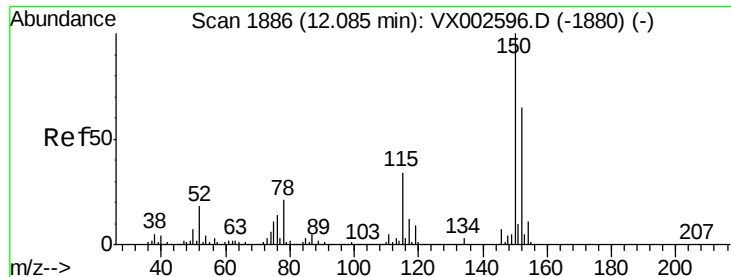
#65
Chlorobenzene
Concen: 0.43 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002809.D
Acq: 22 Jun 2018 01:21

Tgt Ion:112 Resp: 3183
Ion Ratio Lower Upper
112 100
114 26.9 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: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

ClientSampleId :

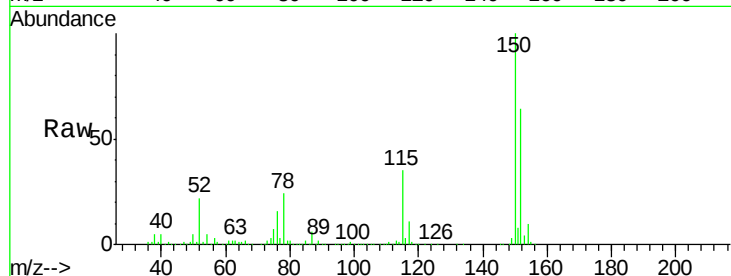
Tot Ion:152 Resp: 168556

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

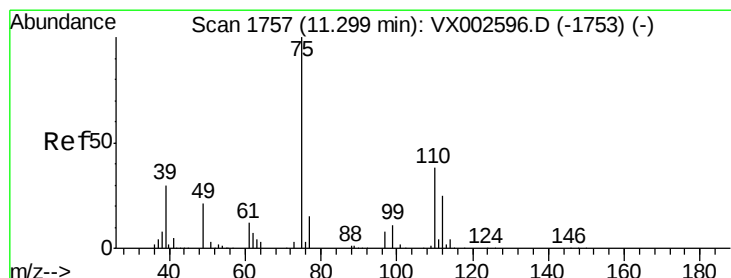
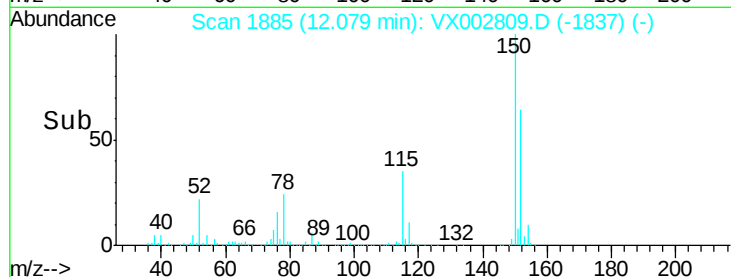
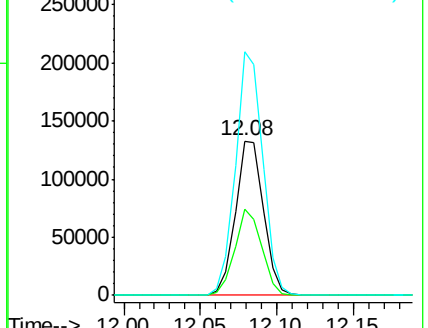
150 154.4 0.0 347.2



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: 26.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002809.D

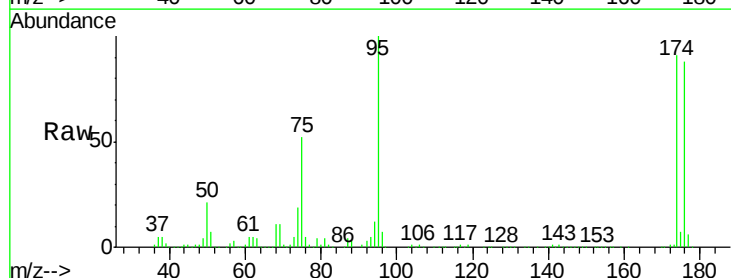
Acq: 22 Jun 2018 01:21

Tgt Ion: 75 Resp: 85144

Ion Ratio Lower Upper

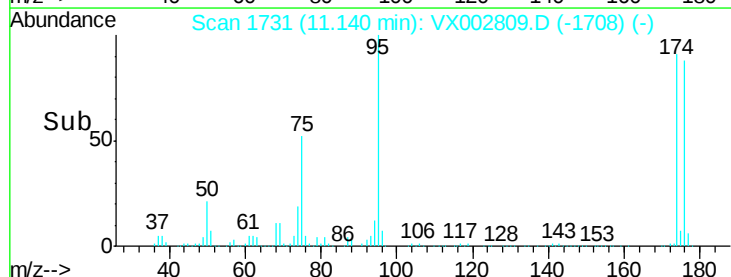
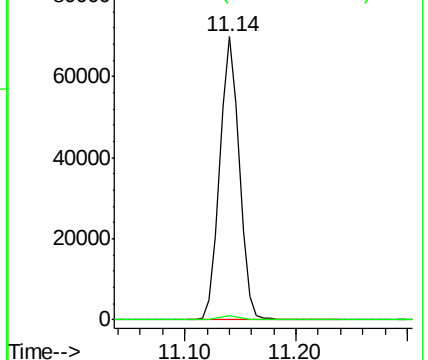
75 100

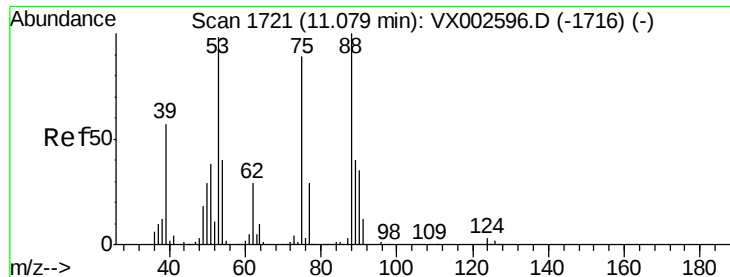
77 1.4 22.8 68.3#



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: 82.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

Instrument :

MSVOA_X

ClientSampleId :

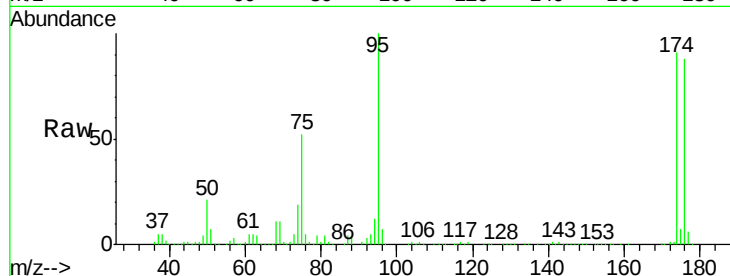
Tot Ion: 75 Resp: 85144

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

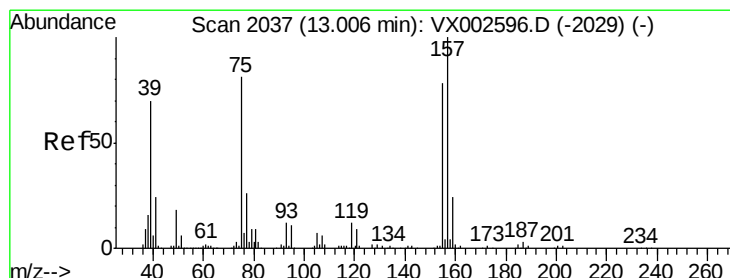
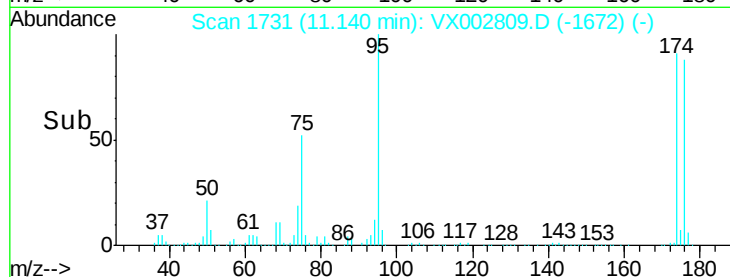
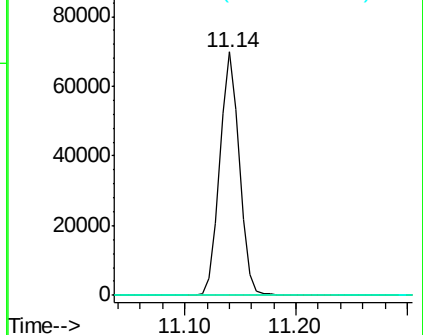
89 0.0 38.2 57.2#



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: 0.45 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002809.D

Acq: 22 Jun 2018 01:21

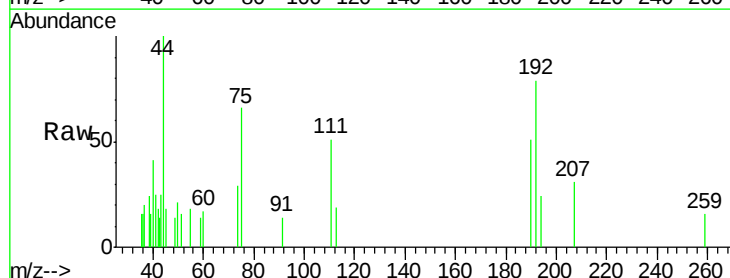
Tgt Ion: 75 Resp: 313

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

