

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002801.D
 Acq On : 21 Jun 2018 20:55
 Operator : JC/MD
 Sample : J3603-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:13:52 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	219909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	307433	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	288327	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159695	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	151177	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
35) Dibromofluoromethane	5.51	113	118599	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	8.72	98	444038	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
62) 4-Bromofluorobenzene	11.14	95	152133	43.09	ug/l	0.00
Spiked Amount			Recovery	=	86.18%	

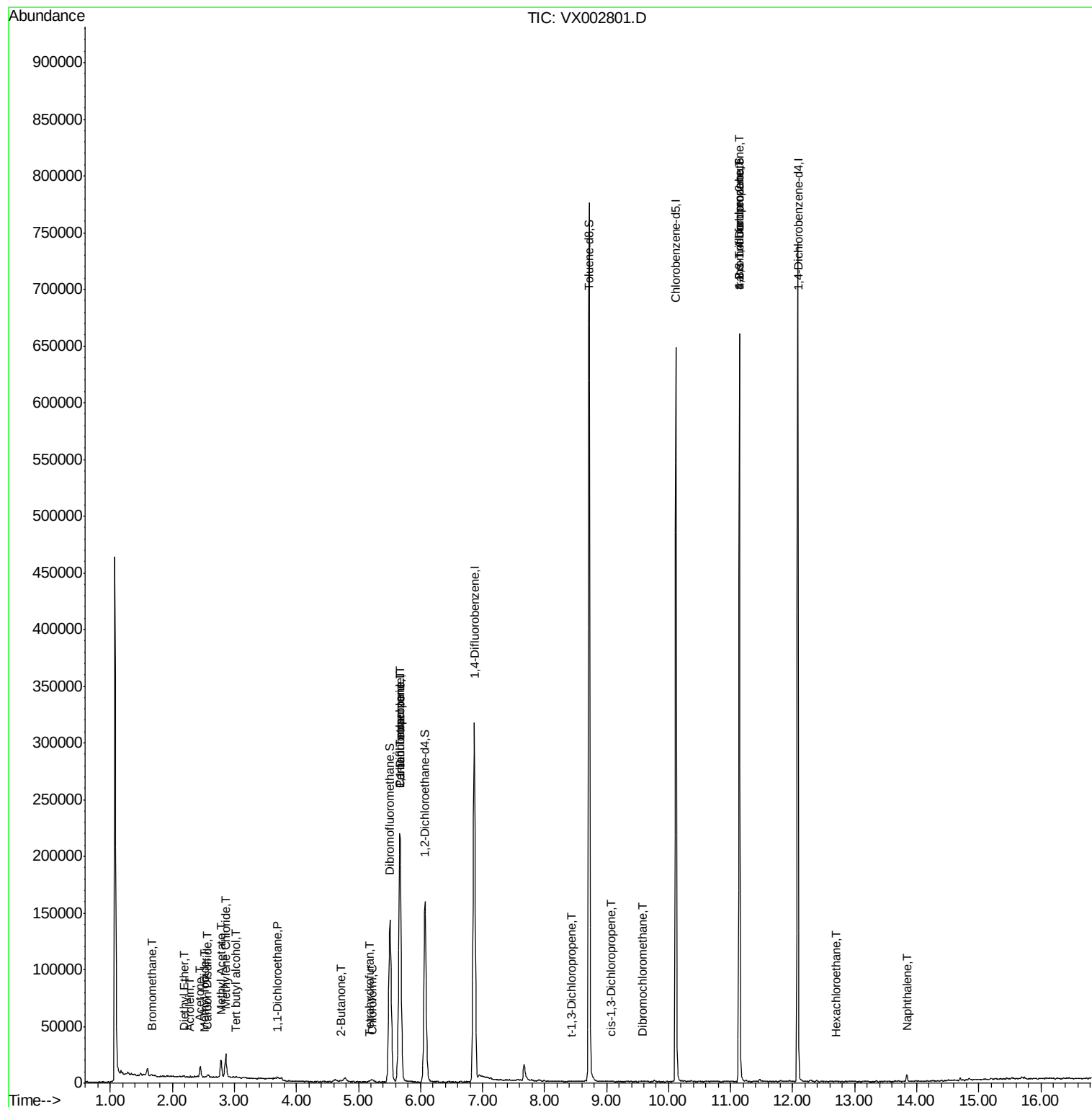
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	778	0.45	ug/l #	61
8) Diethyl Ether	2.19	74	358	0.20	ug/l	94
10) Methyl Iodide	2.52	142	583	5.33	ug/l #	77
11) Tert butyl alcohol	3.03	59	426	0.62	ug/l	96
13) Acrolein	2.29	56	150	7.31	ug/l #	1
16) Acetone	2.45	43	10727	7.28	ug/l	97
17) Carbon Disulfide	2.57	76	2304	0.40	ug/l	96
18) Methyl Acetate	2.78	43	19370	4.93	ug/l	97
20) Methylene Chloride	2.86	84	9070	3.00	ug/l	98
24) 1,1-Dichloroethane	3.69	63	1342	0.28	ug/l #	83
25) 2-Butanone	4.72	43	2414	1.25	ug/l	99
29) Tetrahydrofuran	5.17	42	617	0.49	ug/l #	78
30) Chloroform	5.22	83	1616	0.35	ug/l #	80
36) 1,1-Dichloropropene	5.67	75	15401	4.72	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20306	6.25	ug/l #	15
53) t-1,3-Dichloropropene	8.43	75	19	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.07	75	20	3.22	ug/l #	1
60) Dibromochloromethane	9.59	129	109	3.80	ug/l	56
76) 1,2,3-Trichloropropane	11.14	75	80782	26.81	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	80782	82.78	ug/l #	7
90) Hexachloroethane	12.70	117	25	2.64	ug/l #	1
95) Naphthalene	13.83	128	3780	0.35	ug/l	99

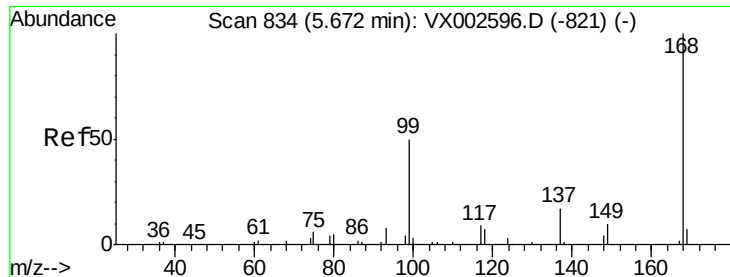
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 833

Delta R.T. -0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

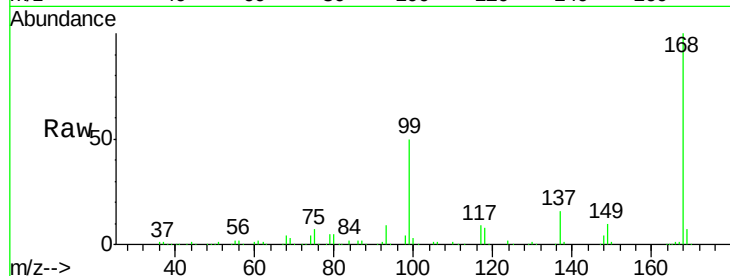
ClientSampled :

Tot Ion:168 Resp: 219909

Ion Ratio Lower Upper

168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

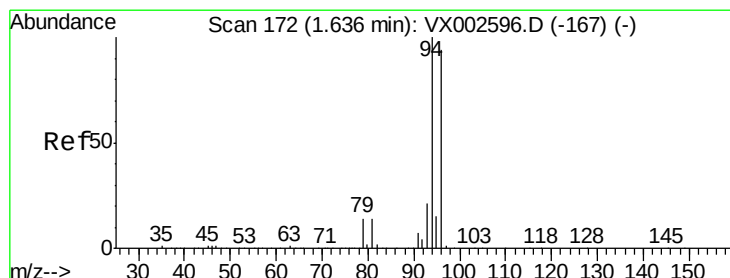
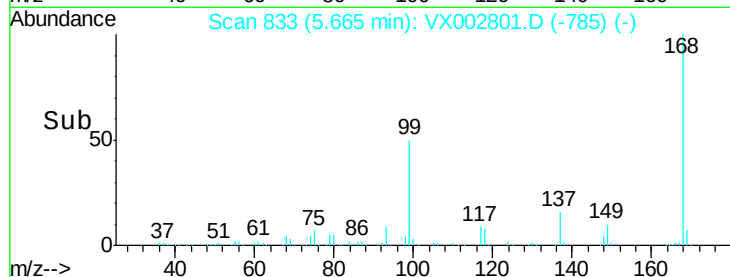
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.45 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002801.D

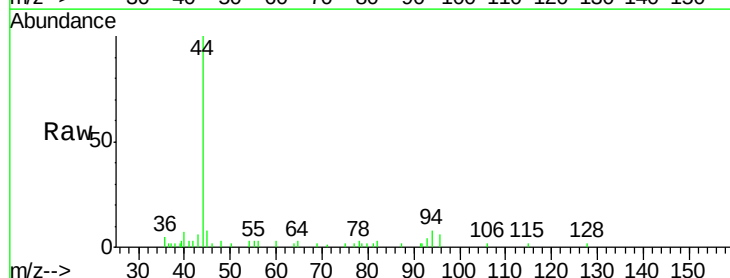
Acq: 21 Jun 2018 20:55

Tgt Ion: 94 Resp: 778

Ion Ratio Lower Upper

94 100

96 55.7 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

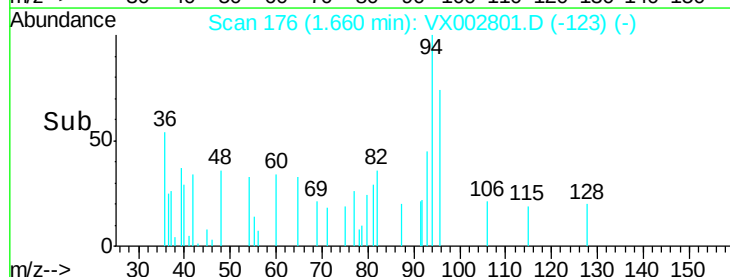
200

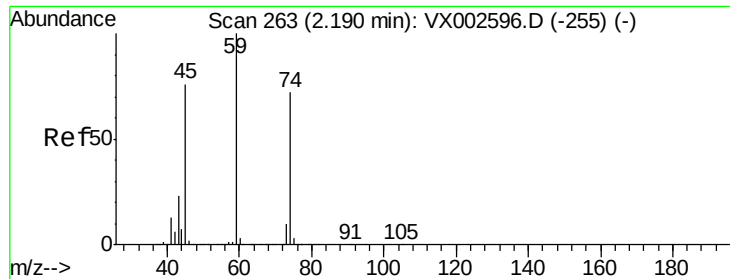
100

0

1.60 1.65 1.70

Time-->





#8

Diethyl Ether

Concen: 0.20 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

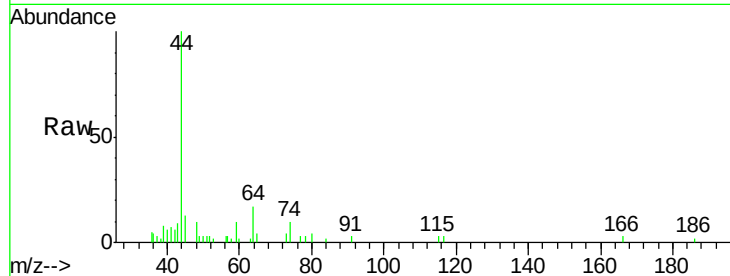
ClientSampled :

Tot Ion: 74 Resp: 358

Ion Ratio Lower Upper

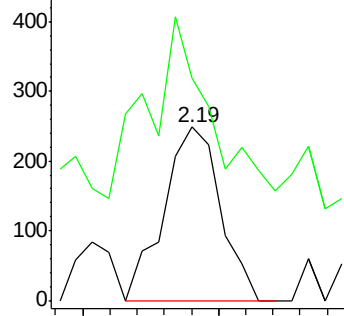
74 100

45 112.3 53.1 159.4

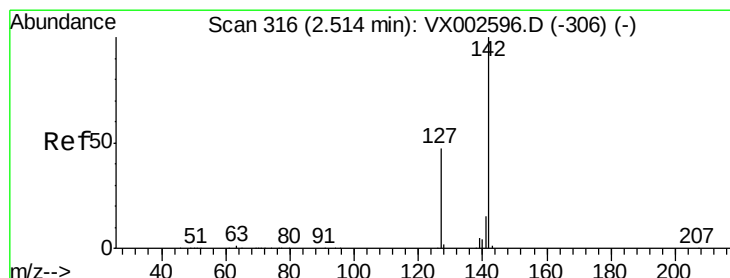
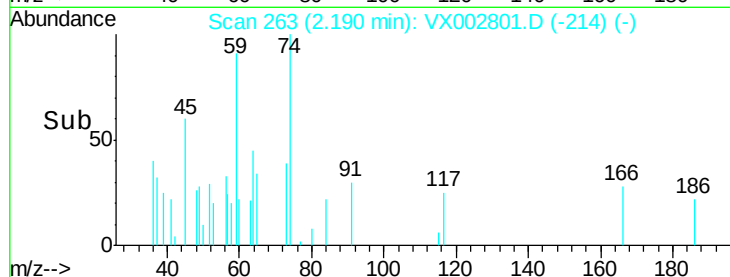


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 5.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

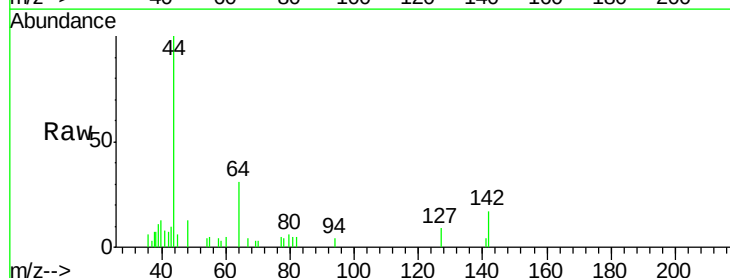
Tgt Ion: 142 Resp: 583

Ion Ratio Lower Upper

142 100

127 62.3 36.6 55.0#

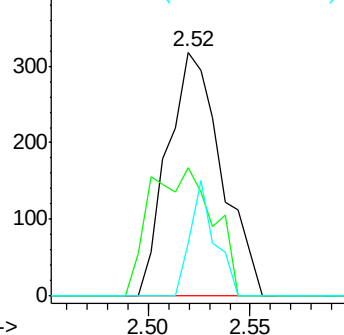
141 21.6 11.3 16.9#



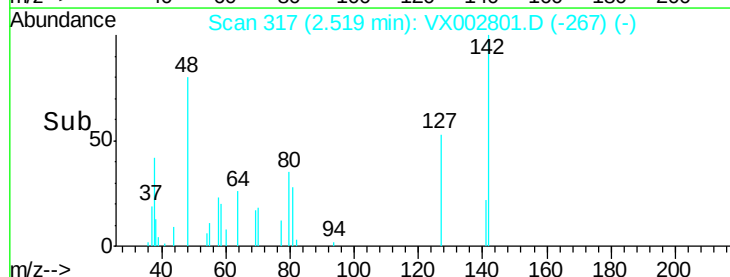
Abundance Ion 141.80 (141.50 to 142.50): V

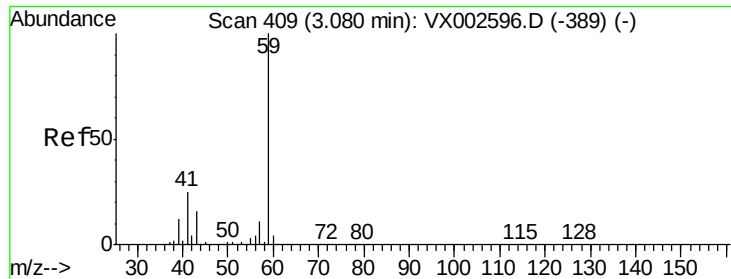
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

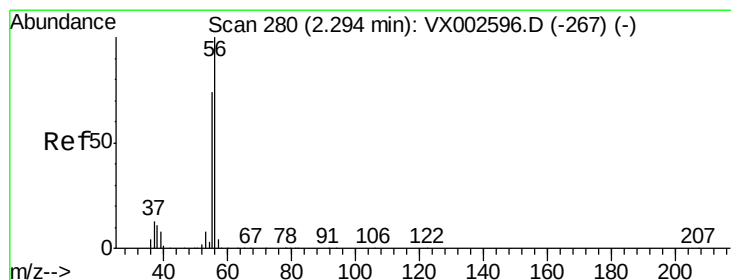
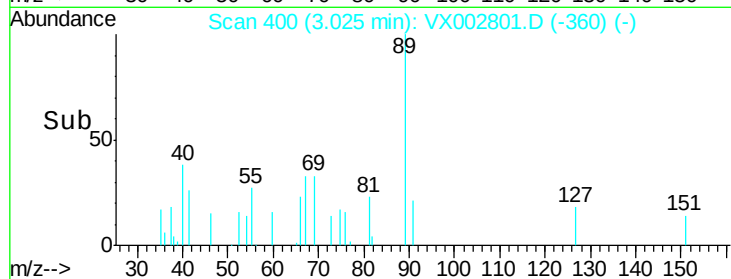
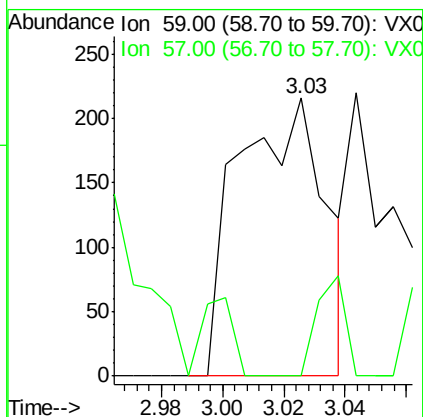
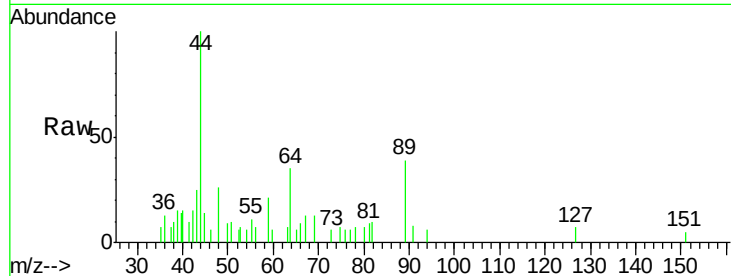




#11
Tert butyl alcohol
Concen: 0.62 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

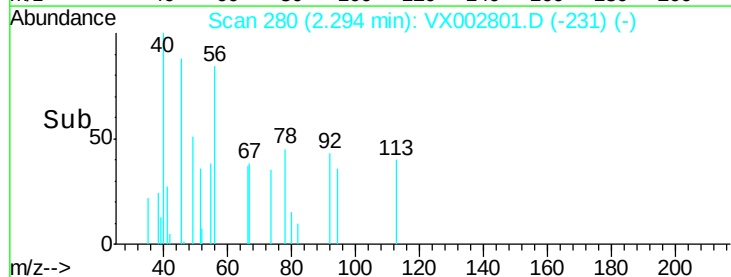
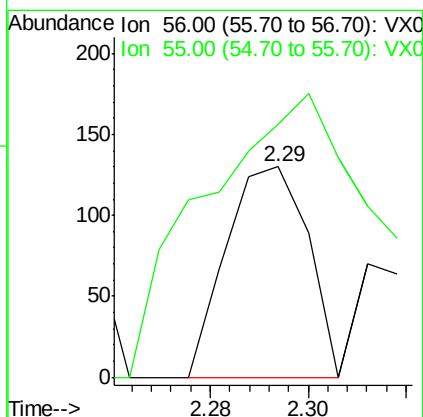
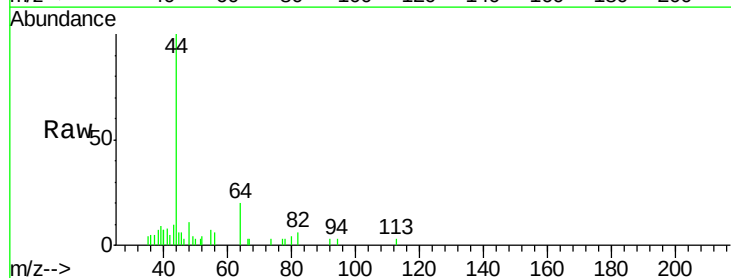
Instrument :
MSVOA_X
ClientSampled :

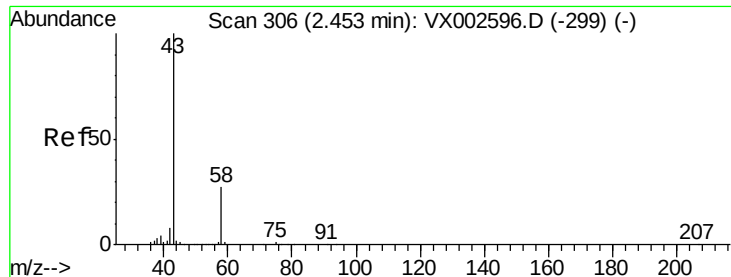
Tot Ion: 59 Resp: 426
Ion Ratio Lower Upper
59 100
57 11.7 8.2 12.2



#13
Acrolein
Concen: 7.31 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

Tgt Ion: 56 Resp: 150
Ion Ratio Lower Upper
56 100
55 268.7 57.0 85.4#





#16

Acetone

Concen: 7.28 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

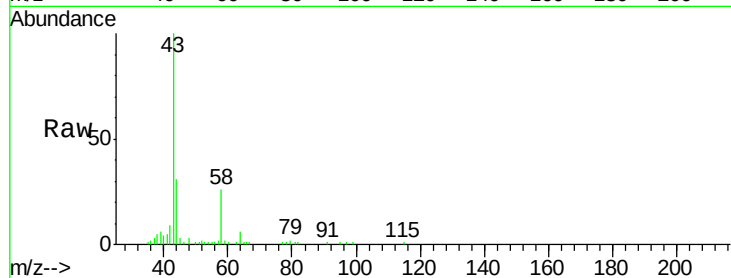
ClientSampled :

Tot Ion: 43 Resp: 10727

Ion Ratio Lower Upper

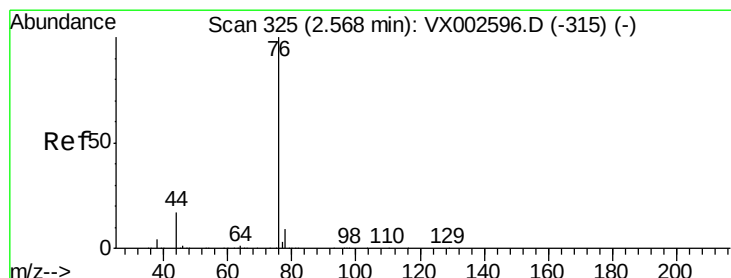
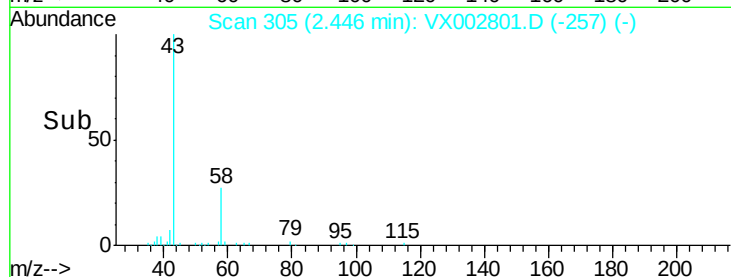
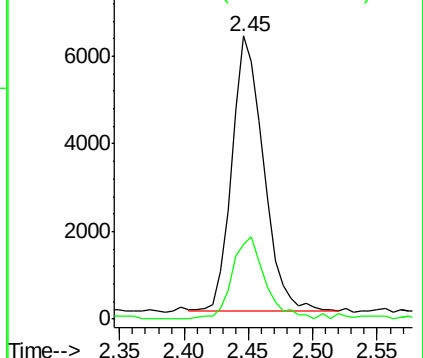
43 100

58 26.2 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.40 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002801.D

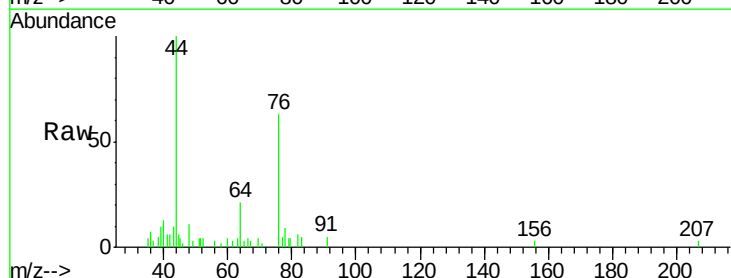
Acq: 21 Jun 2018 20:55

Tgt Ion: 76 Resp: 2304

Ion Ratio Lower Upper

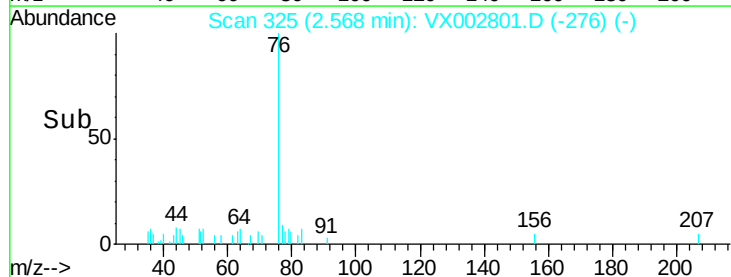
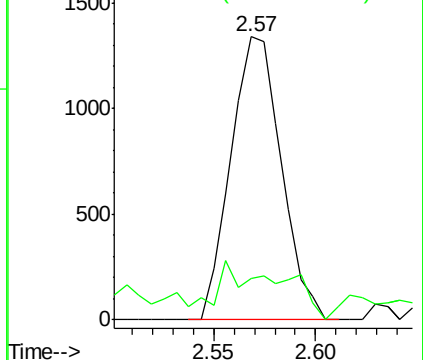
76 100

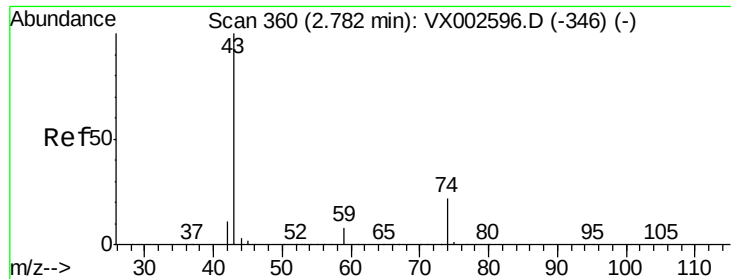
78 9.9 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

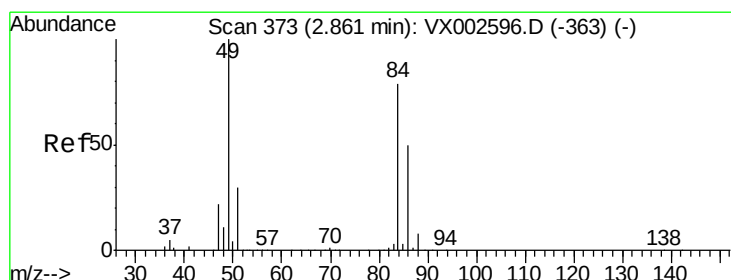
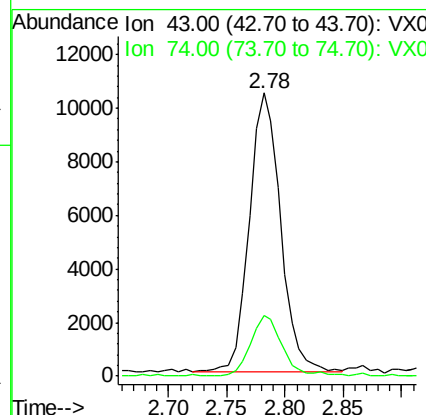
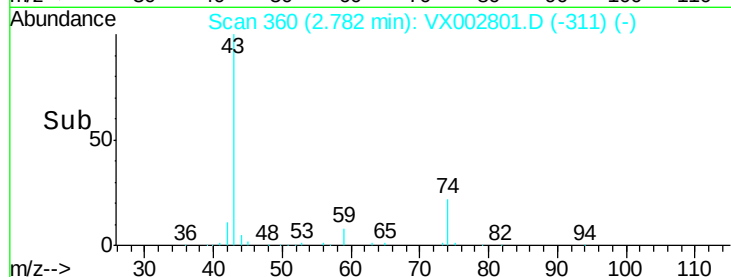
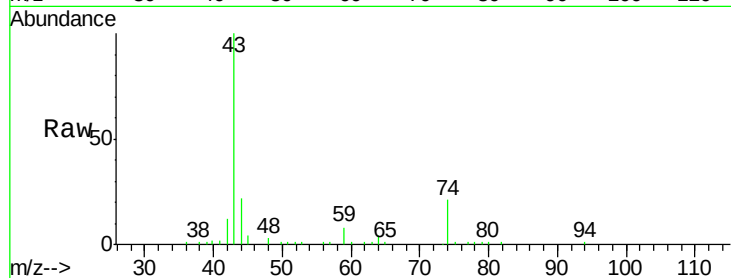




#18
Methvl Acetate
Concen: 4.93 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

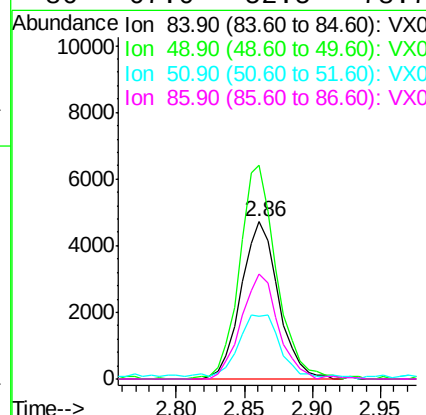
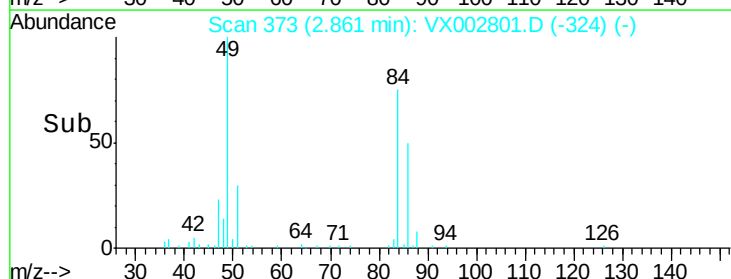
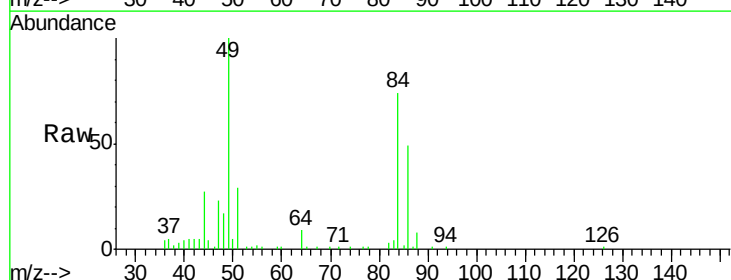
Instrument :
MSVOA_X
ClientSampleId :

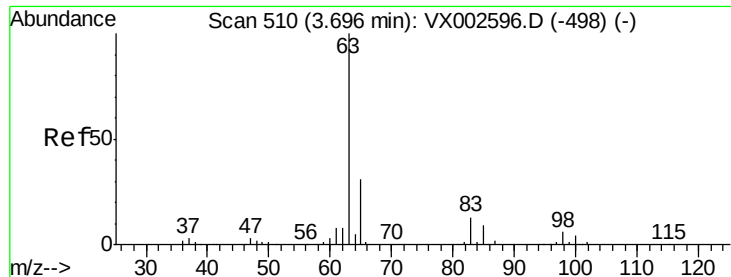
Tot Ion: 43 Resp: 19370
Ion Ratio Lower Upper
43 100
74 22.4 16.7 25.1



#20
Methylene Chloride
Concen: 3.00 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

Tgt Ion: 84 Resp: 9070
Ion Ratio Lower Upper
84 100
49 135.9 107.8 161.6
51 38.0 32.8 49.2
86 67.0 52.5 78.7





#24

1,1-Dichloroethane

Concen: 0.28 ug/l

RT: 3.69 min Scan# 509

Delta R.T. -0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

ClientSampleId :

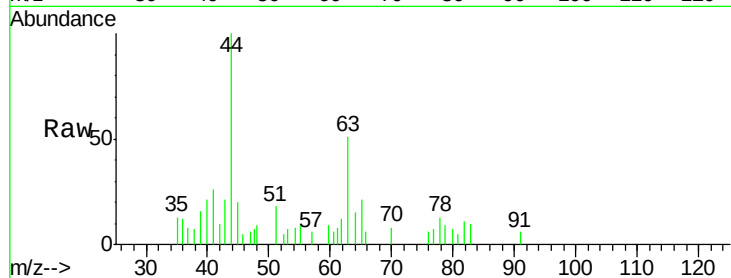
Tot Ion: 63 Resp: 1342

Ion Ratio Lower Upper

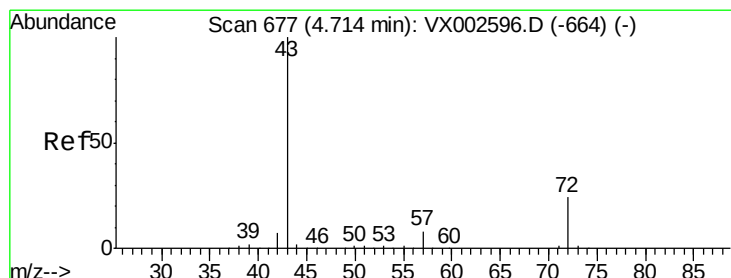
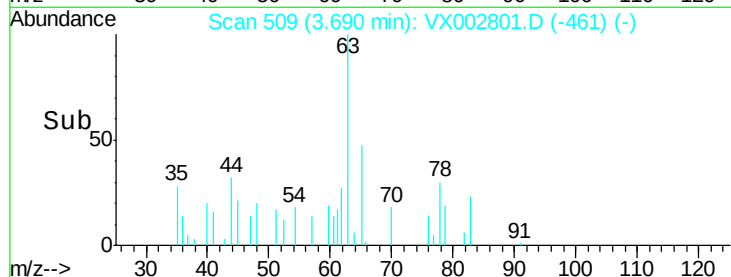
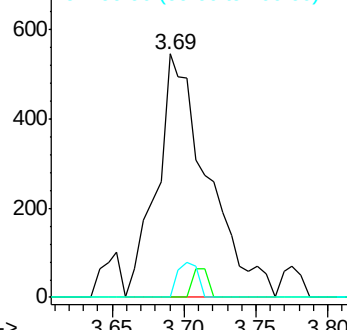
63 100

98 0.0 3.4 10.2#

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 1.25 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002801.D

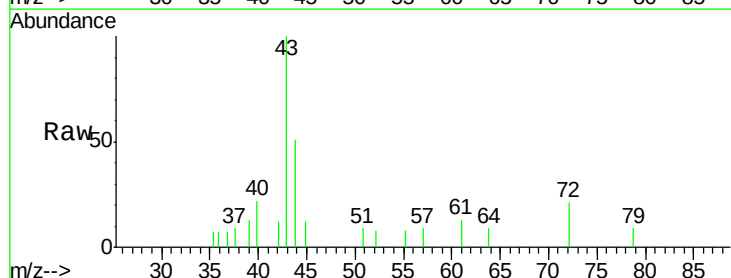
Acq: 21 Jun 2018 20:55

Tgt Ion: 43 Resp: 2414

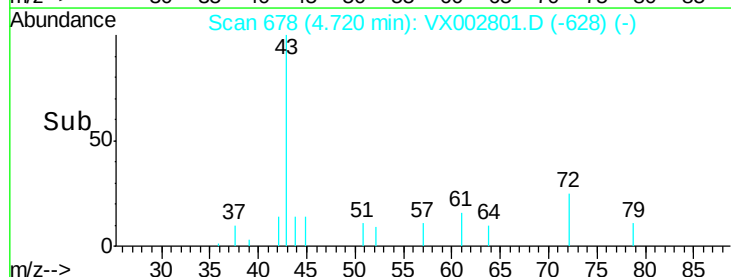
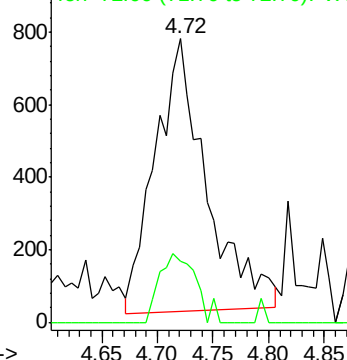
Ion Ratio Lower Upper

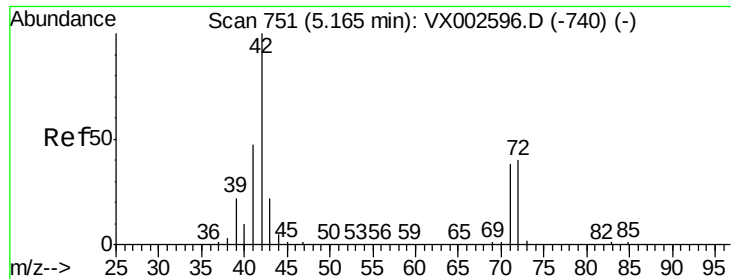
43 100

72 23.4 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

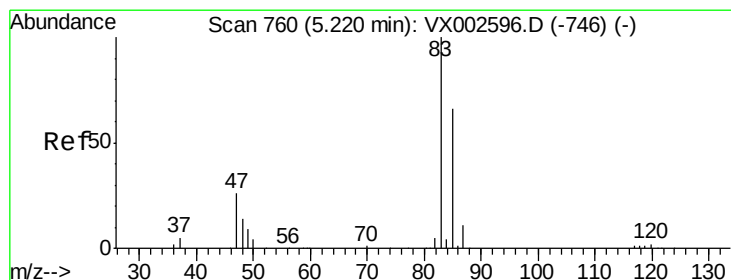
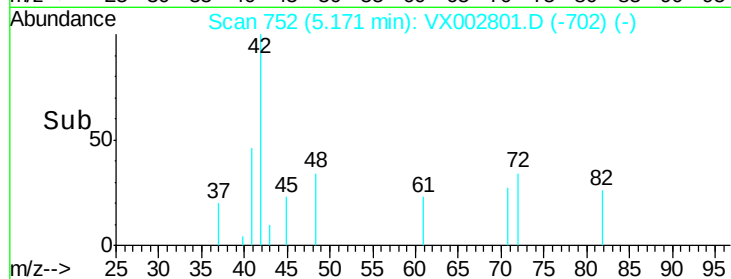
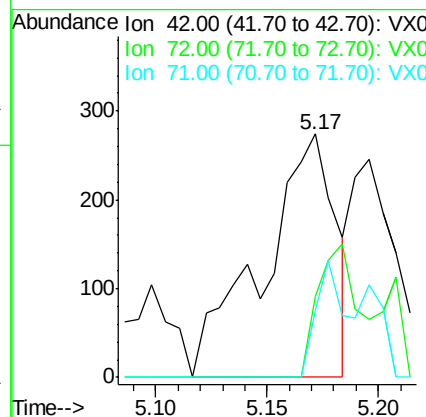
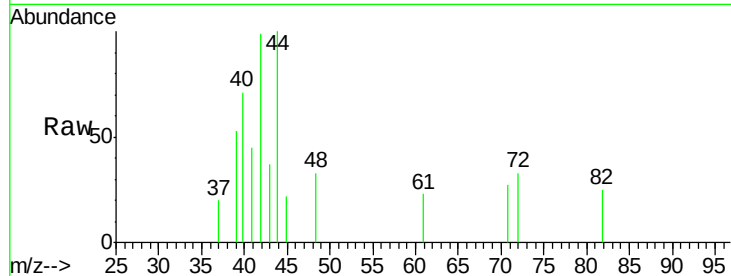




#29
Tetrahydrofuran
Concen: 0.49 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

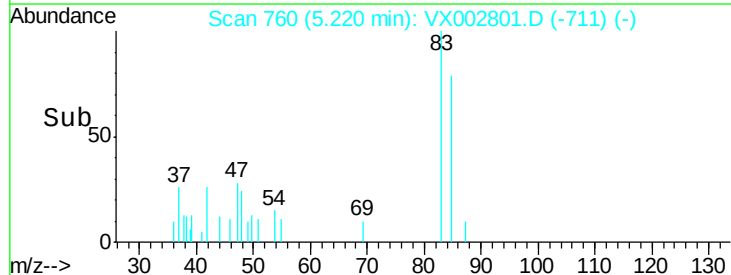
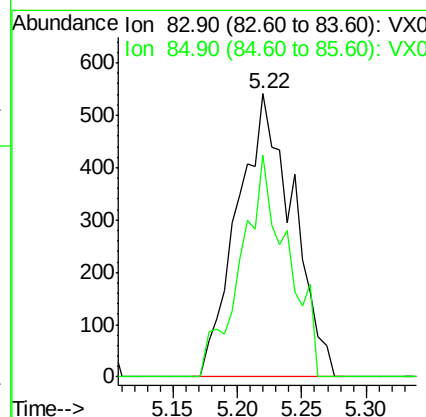
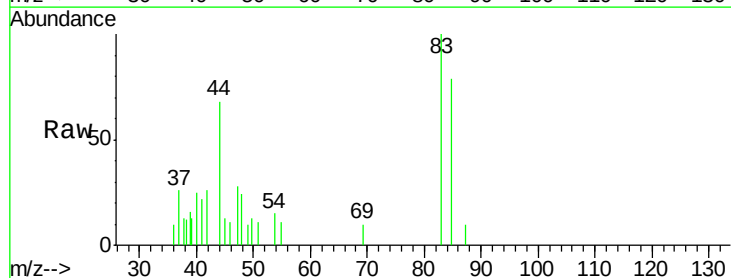
Instrument :
MSVOA_X
ClientSampled :

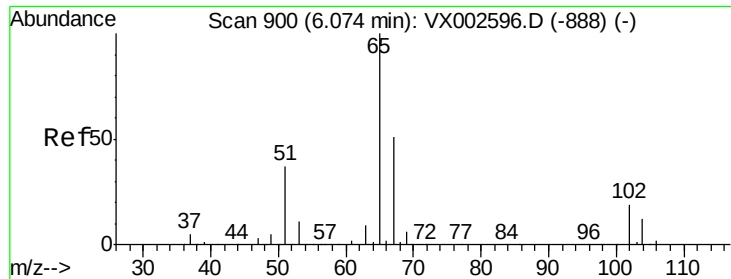
Tot Ion: 42 Resp: 617
Ion Ratio Lower Upper
42 100
72 30.6 32.0 48.0#
71 20.4 30.1 45.1#



#30
Chloroform
Concen: 0.35 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

Tgt Ion: 83 Resp: 1616
Ion Ratio Lower Upper
83 100
85 78.6 50.4 75.6#

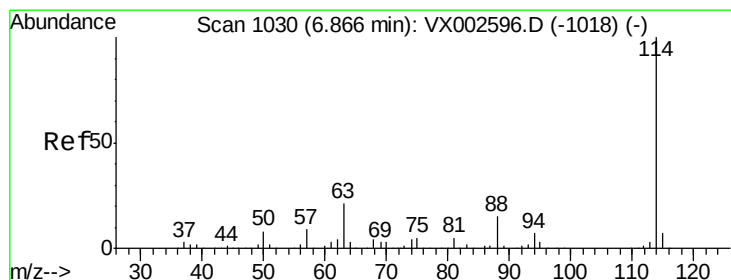
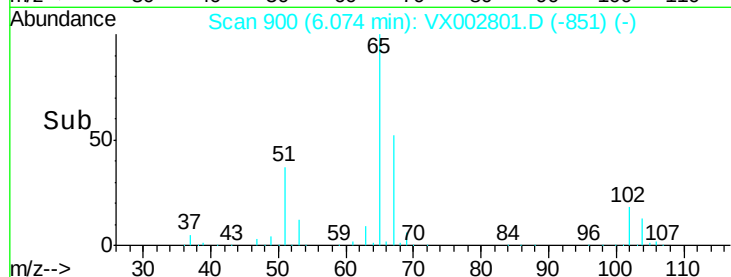
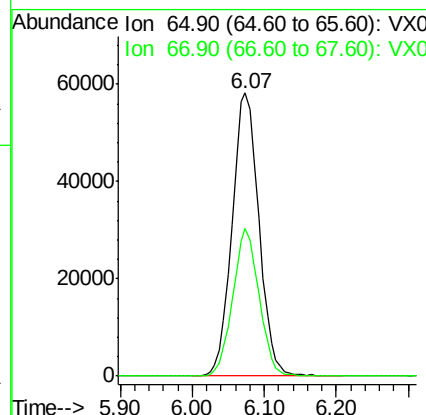
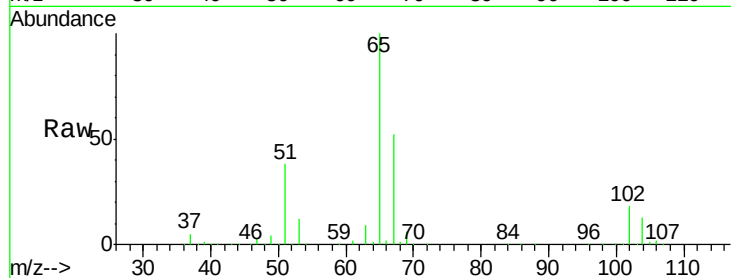




#33
 1,2-Dichloroethane-d4
 Concen: 45.24 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

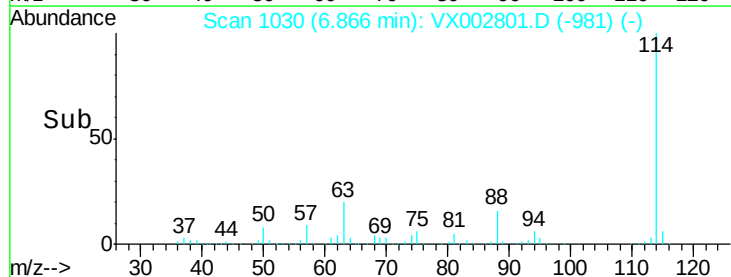
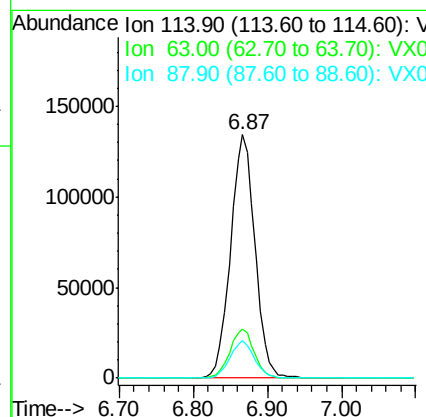
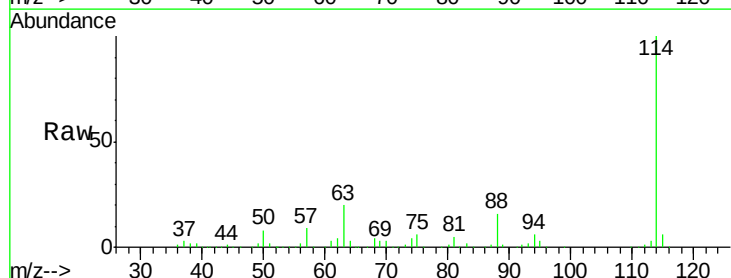
Instrument :
 MSVOA_X
 ClientSampleId :

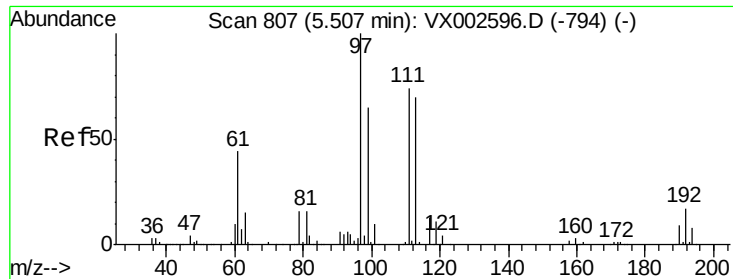
Tot Ion: 65 Resp: 151177
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

Tgt Ion: 114 Resp: 307433
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.7 0.0 30.0

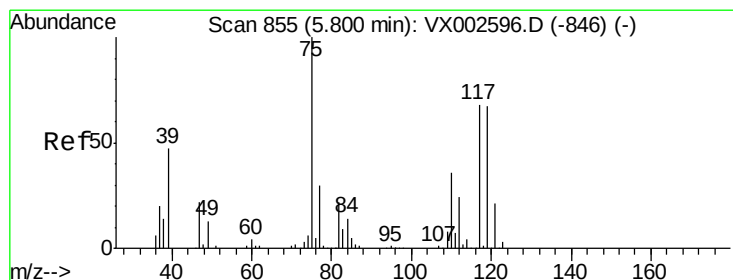
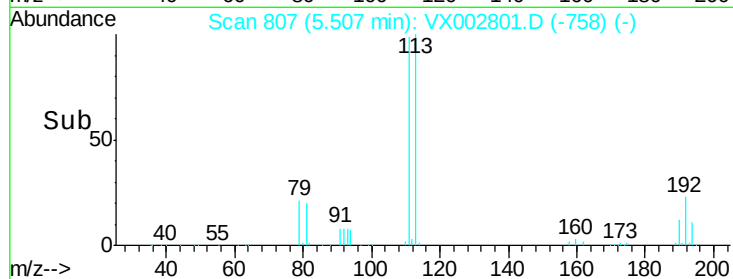
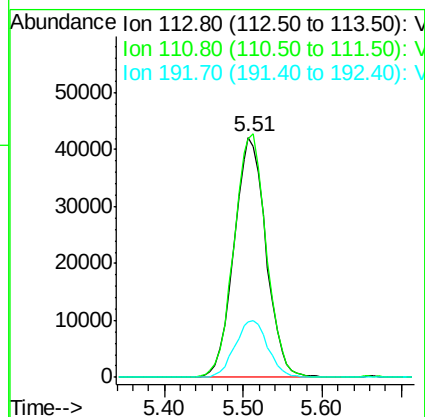
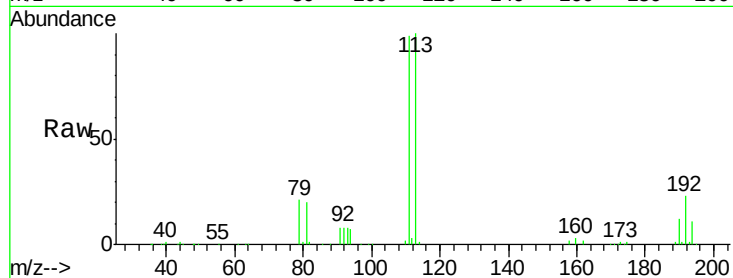




#35
 Dibromofluoromethane
 Concen: 48.34 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

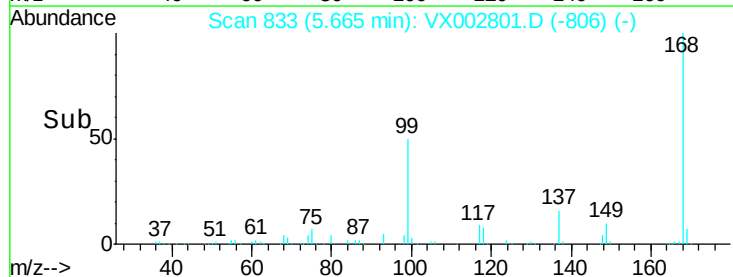
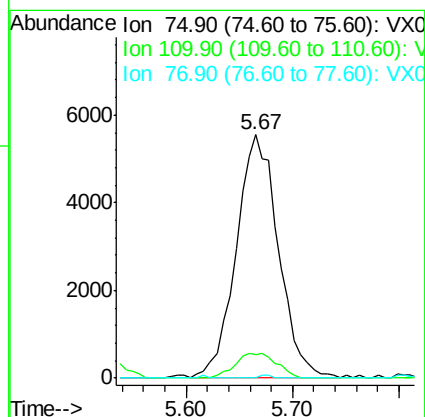
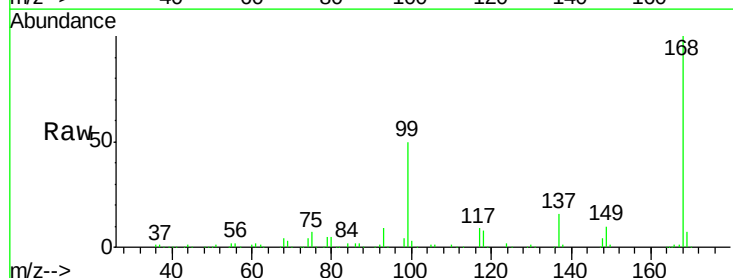
Instrument :
 MSVOA_X
 ClientSampled :

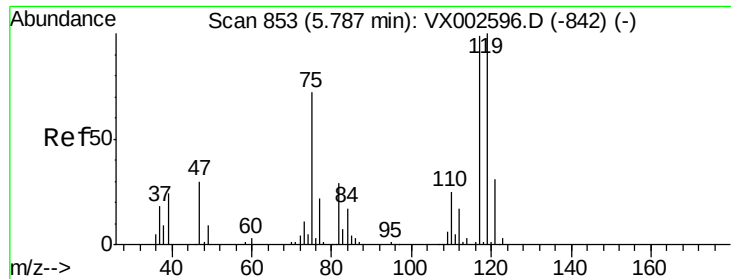
Tot Ion:113 Resp: 118599
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.0
 192 24.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.72 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

Tgt Ion: 75 Resp: 15401
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.4#
 77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.25 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :
MSVOA_X
ClientSampled :

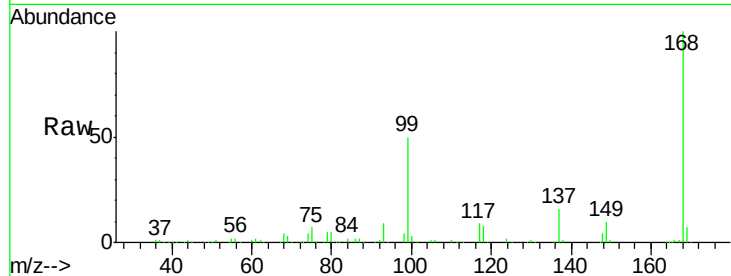
Tot Ion:117 Resp: 20306

Ion Ratio Lower Upper

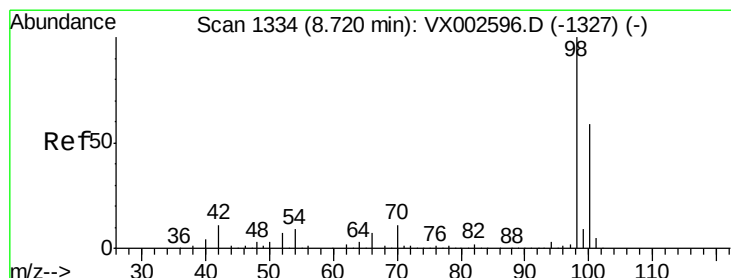
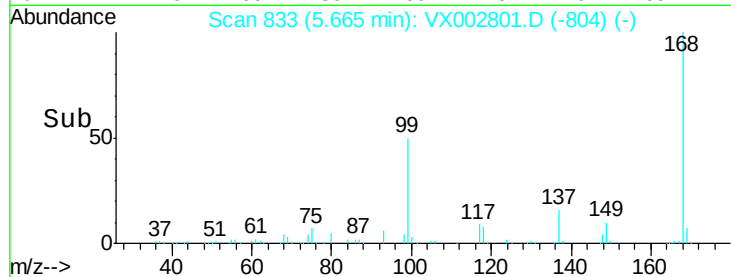
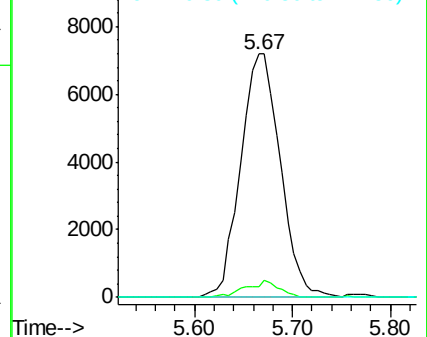
117 100

119 4.2 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



#50

Toluene-d8

Concen: 47.66 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002801.D

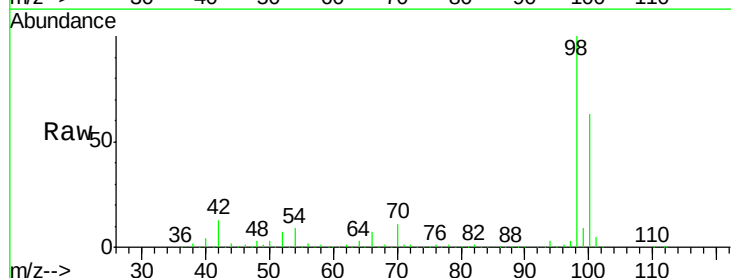
Acq: 21 Jun 2018 20:55

Tgt Ion: 98 Resp: 444038

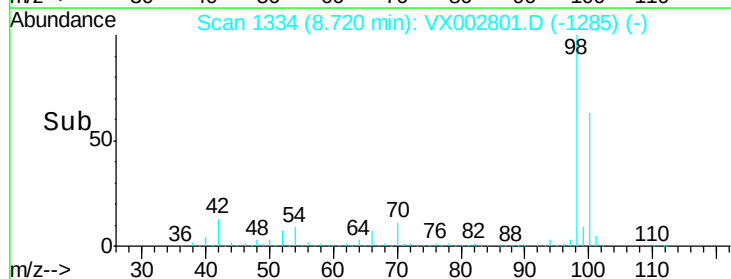
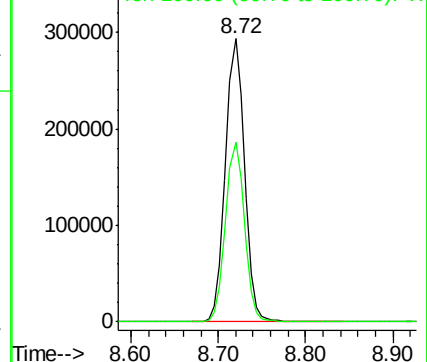
Ion Ratio Lower Upper

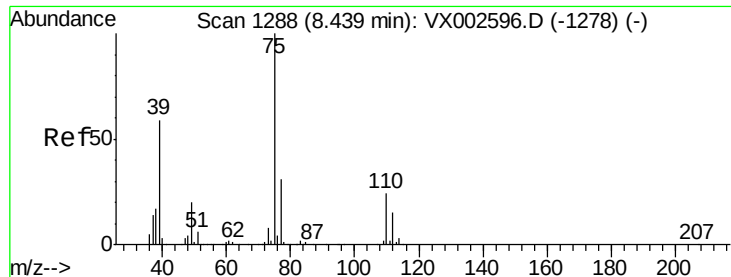
98 100

100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.43 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

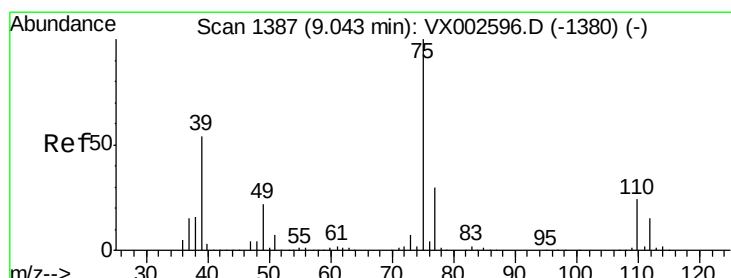
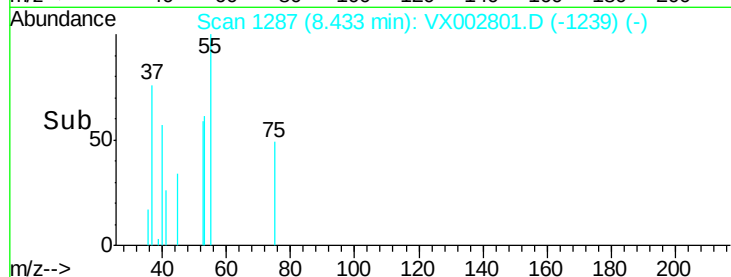
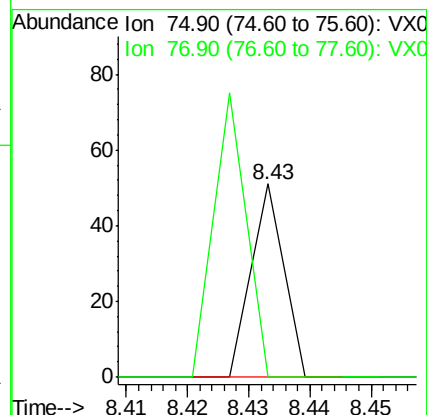
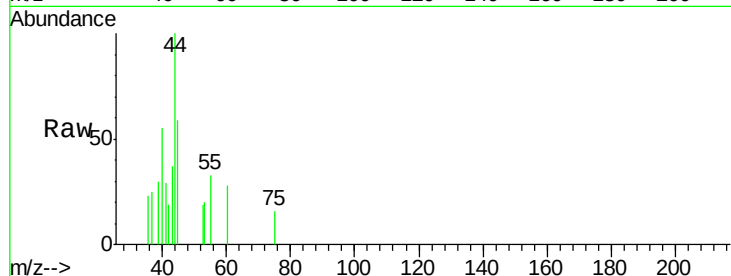
ClientSampled :

Tot Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.07 min Scan# 1392

Delta R.T. 0.03 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

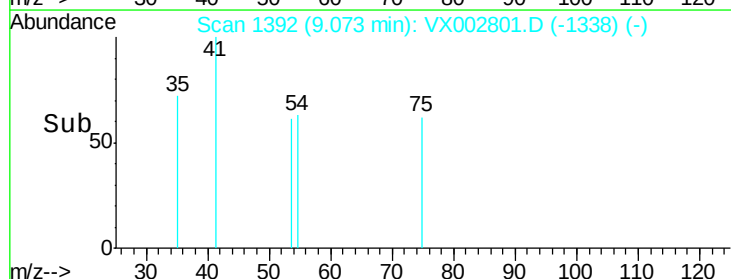
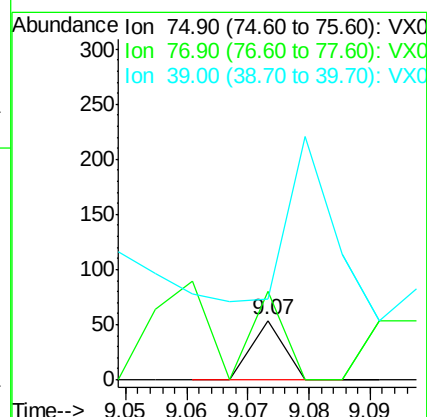
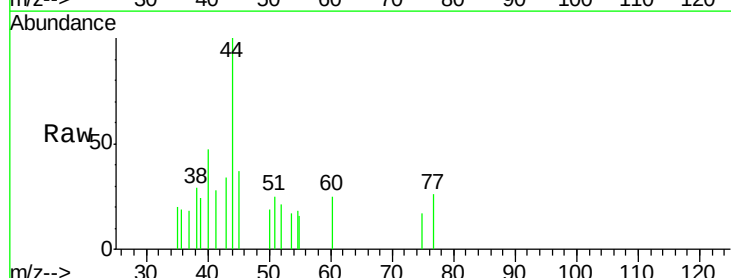
Tgt Ion: 75 Resp: 20

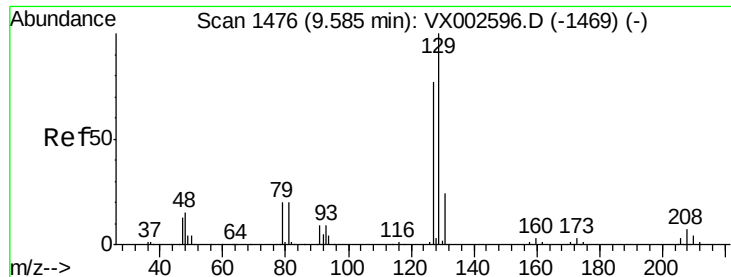
Ion Ratio Lower Upper

75 100

77 148.1 24.8 37.2#

39 0.0 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.80 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

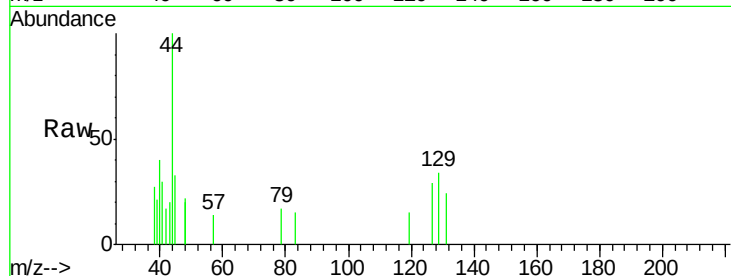
ClientSampleId :

Tot Ion:129 Resp: 109

Ion Ratio Lower Upper

129 100

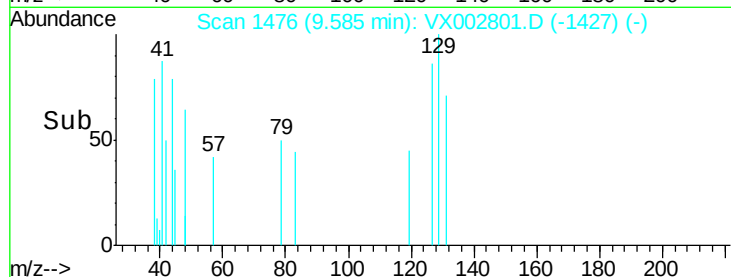
127 114.7 38.5 115.3



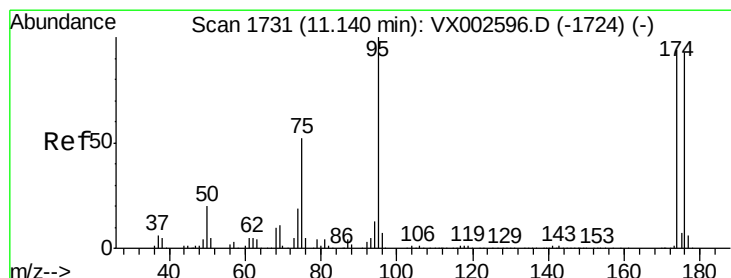
Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59



Time-->



#62

4-Bromofluorobenzene

Concen: 43.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

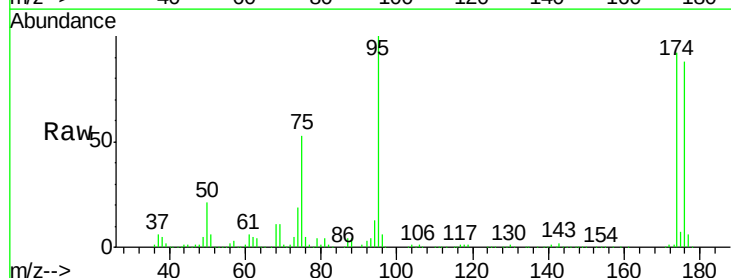
Tgt Ion: 95 Resp: 152133

Ion Ratio Lower Upper

95 100

174 97.5 0.0 187.4

176 93.4 0.0 181.0

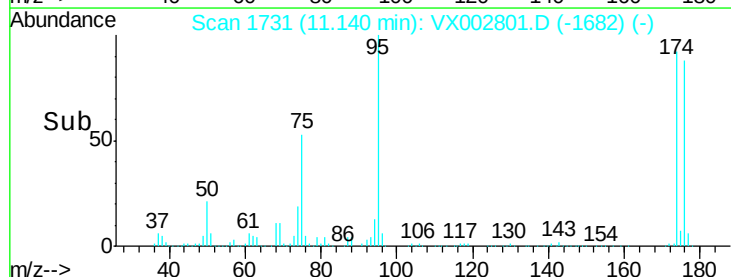


Abundance Ion 94.90 (94.60 to 95.60): VX0

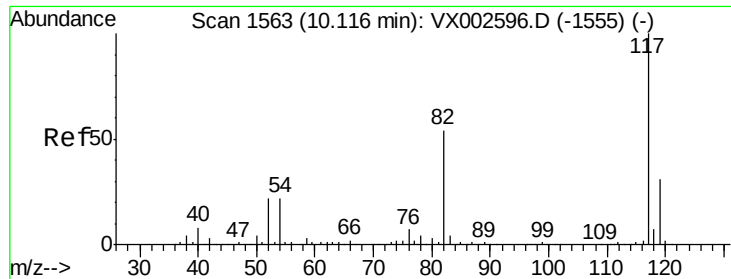
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14



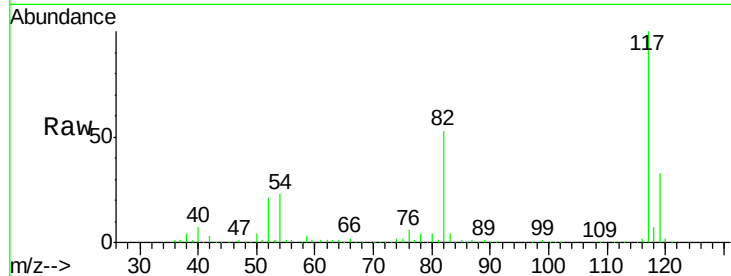
Time-->



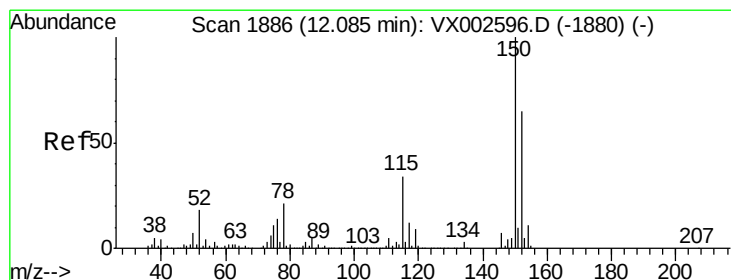
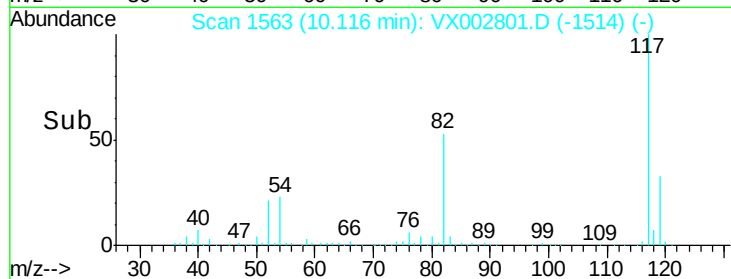
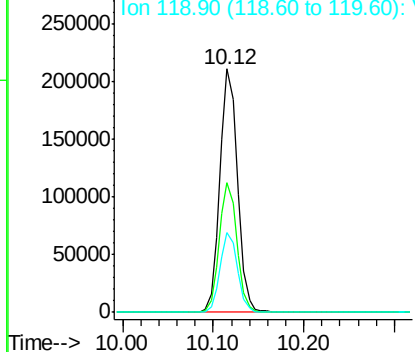
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 288327
Ion Ratio Lower Upper
117 100
82 53.2 45.0 67.4
119 32.5 25.8 38.6

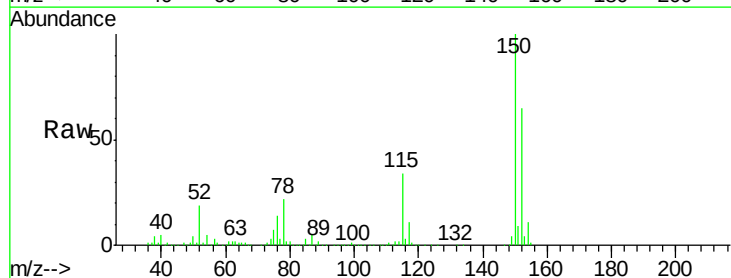


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

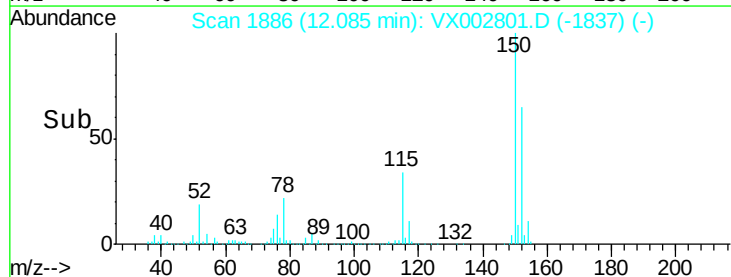
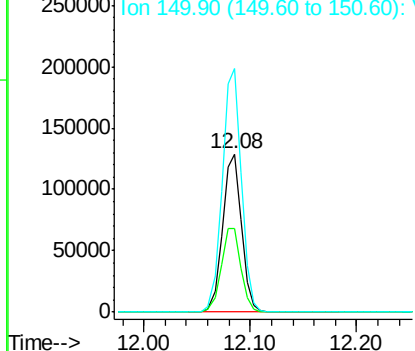


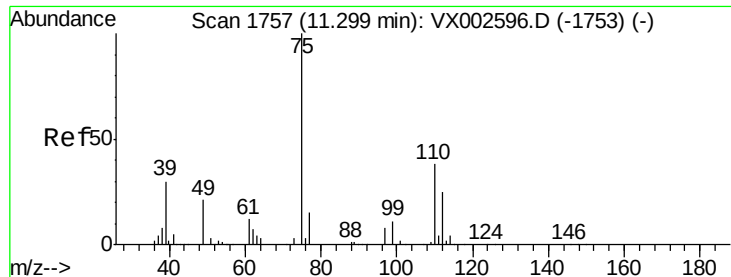
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002801.D
Acq: 21 Jun 2018 20:55

Tgt Ion:152 Resp: 159695
Ion Ratio Lower Upper
152 100
115 55.0 40.1 120.2
150 155.5 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

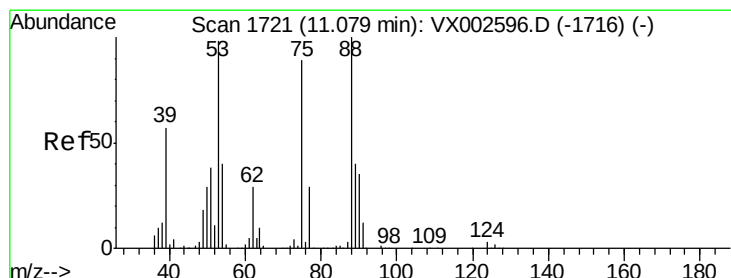
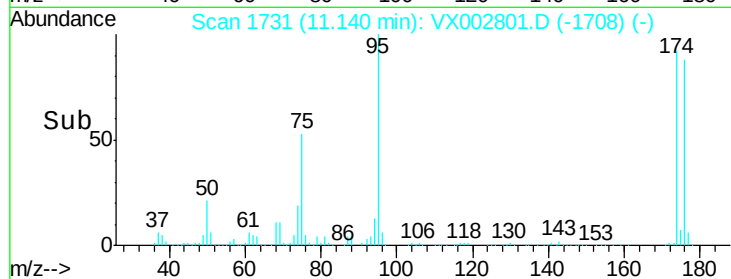
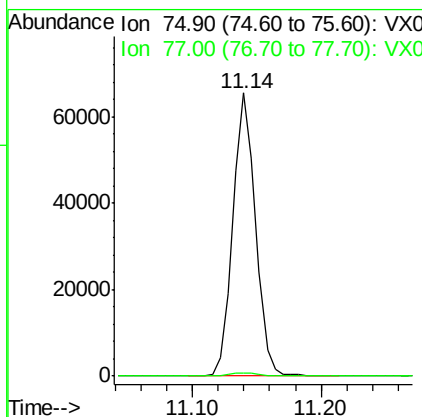
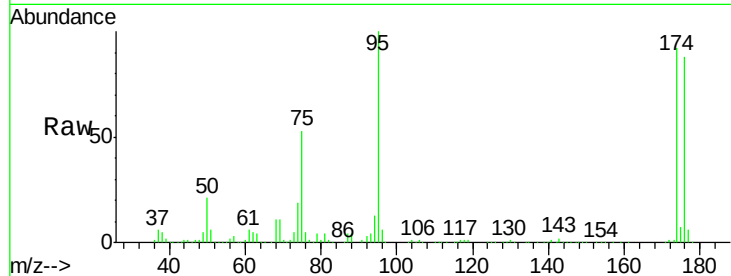




#76
 1,2,3-Trichloropropane
 Concen: 26.81 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

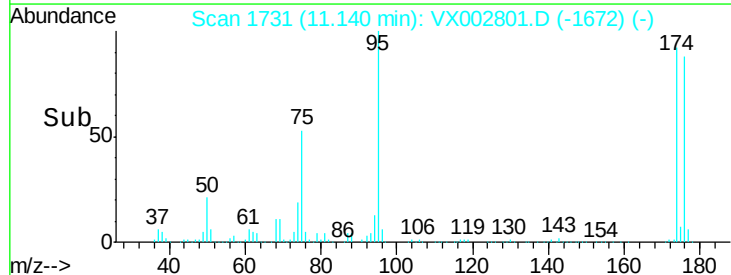
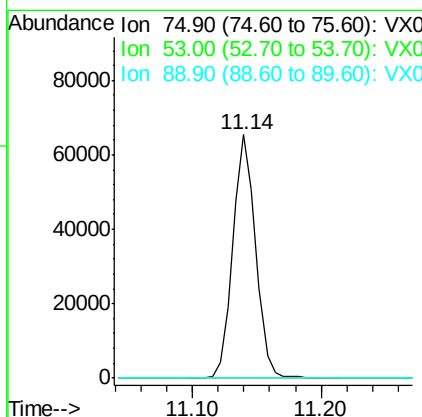
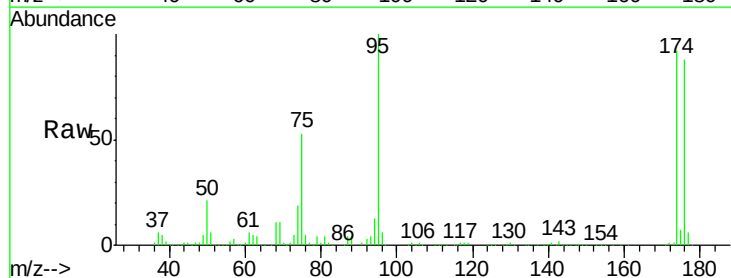
Instrument :
 MSVOA_X
 ClientSampleId :

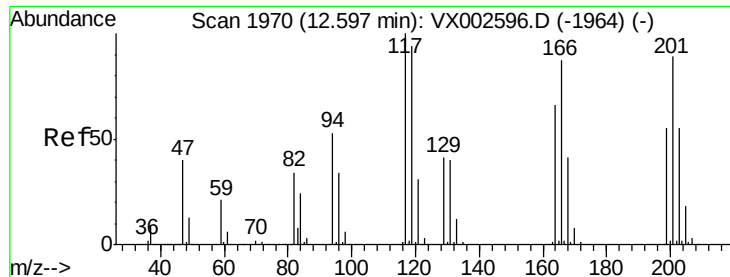
Tot Ion: 75 Resp: 80782
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.78 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002801.D
 Acq: 21 Jun 2018 20:55

Tgt Ion: 75 Resp: 80782
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.1 38.2 57.2#





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.70 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

Instrument :

MSVOA_X

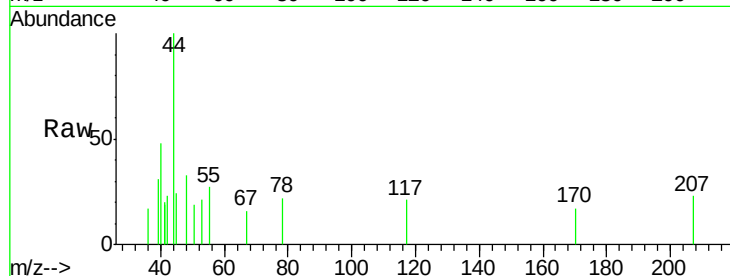
ClientSampleId :

Tot Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

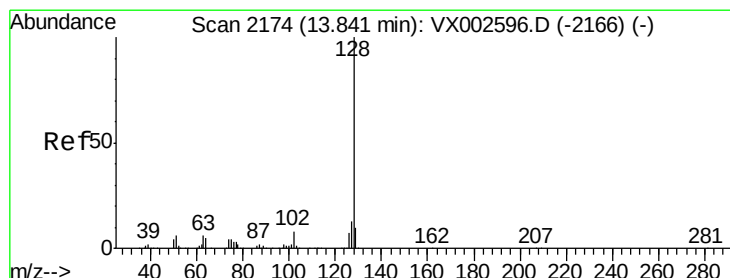
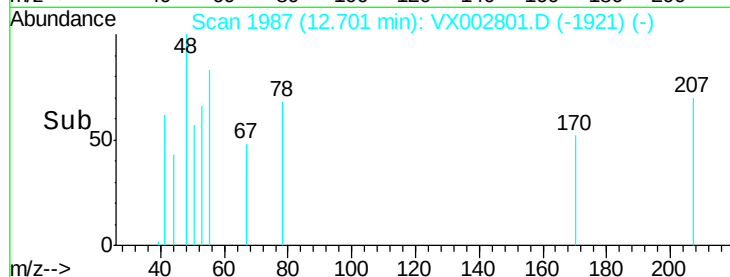


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.70

Time-->



#95

Naphthalene

Concen: 0.35 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX002801.D

Acq: 21 Jun 2018 20:55

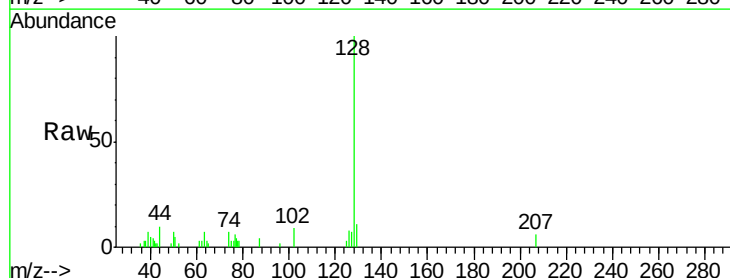
Tgt Ion:128 Resp: 3780

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83

Time-->

