

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002850.D
 Acq On : 22 Jun 2018 23:58
 Operator : JC/MD
 Sample : J3692-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 23 01:35:25 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	232000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	329128	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	168616	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	157080	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	
35) Dibromofluoromethane	5.51	113	123263	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
50) Toluene-d8	8.72	98	458702	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
62) 4-Bromofluorobenzene	11.14	95	158807	42.02	ug/l	0.00
Spiked Amount			Recovery	=	84.04%	

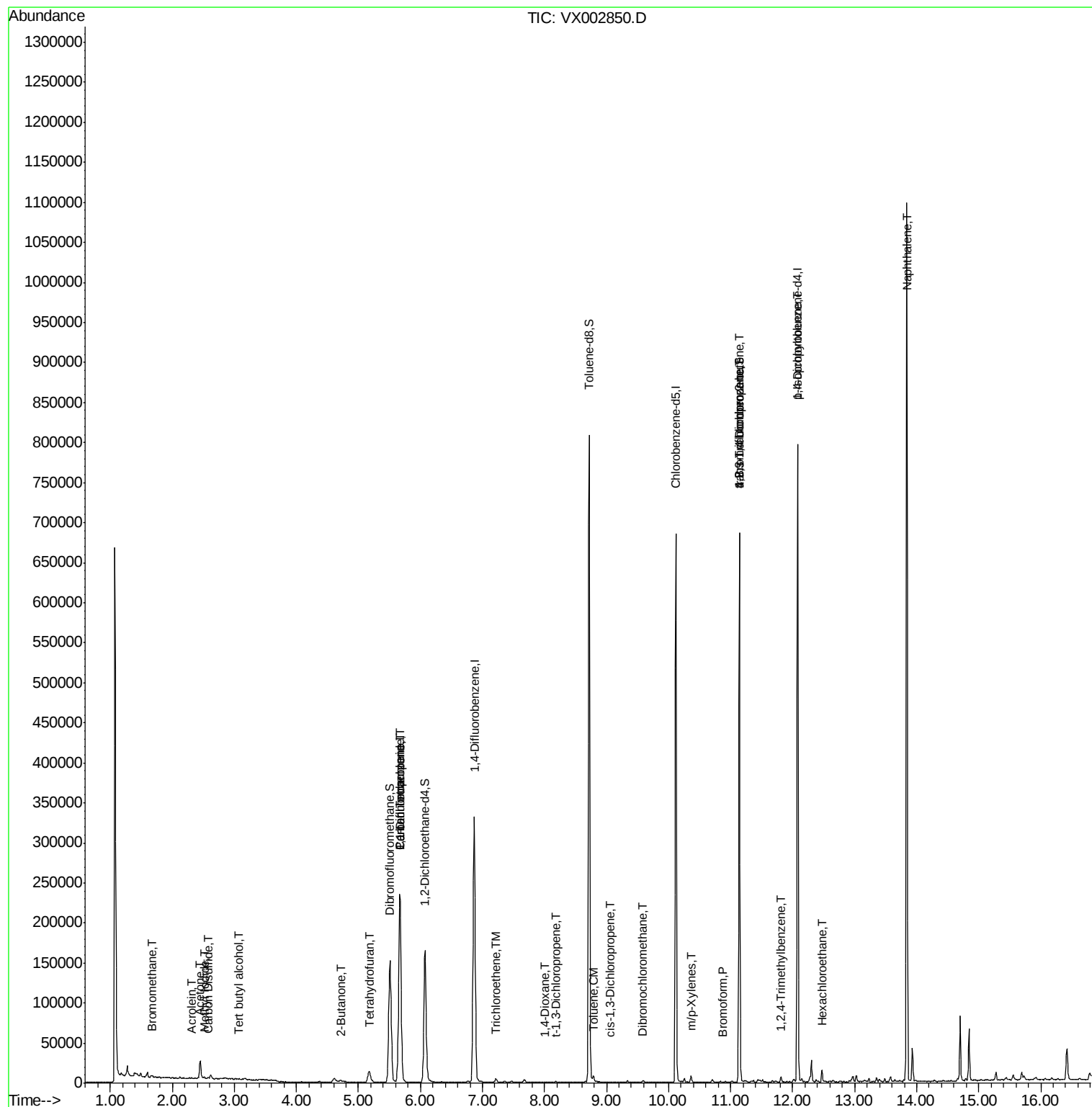
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	1277	0.70	ug/l	97
10) Methyl Iodide	2.53	142	1397	5.52	ug/l #	91
11) Tert butyl alcohol	3.08	59	764	1.05	ug/l #	81
13) Acrolein	2.30	56	349	7.86	ug/l #	46
16) Acetone	2.45	43	25558	16.43	ug/l	99
17) Carbon Disulfide	2.57	76	1331	0.22	ug/l #	78
25) 2-Butanone	4.72	43	3916	1.92	ug/l	92
29) Tetrahydrofuran	5.17	42	12745	9.52	ug/l	98
36) 1,1-Dichloropropene	5.66	75	16294	4.66	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21743	6.25	ug/l #	16
44) Trichloroethene	7.21	130	1875	0.62	ug/l	97
49) 1,4-Dioxane	8.01	88	20	0.32	ug/l #	1
52) Toluene	8.79	92	1926	0.29	ug/l	97
53) t-1,3-Dichloropropene	8.18	75	26	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	49	3.22	ug/l #	1
60) Dibromochloromethane	9.58	129	376	3.87	ug/l	87
68) m/p-Xylenes	10.36	106	1817	0.38	ug/l	96
71) Bromoform	10.86	173	142	4.90	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	83540	26.26	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83540	81.17	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.81	105	2653	0.27	ug/l	98
86) p-Isopropyltoluene	12.07	119	6793	0.66	ug/l	85
90) Hexachloroethane	12.48	117	543	2.94	ug/l #	1
95) Naphthalene	13.84	128	661866	58.44	ug/l	100

(#) = 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: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

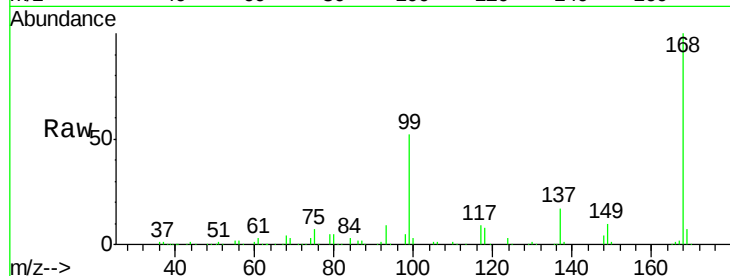
ClientSampled :

Tot Ion:168 Resp: 232000

Ion Ratio Lower Upper

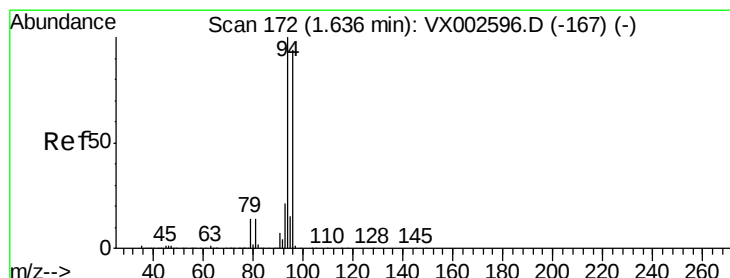
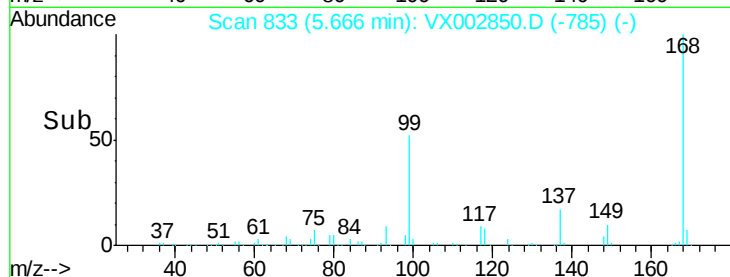
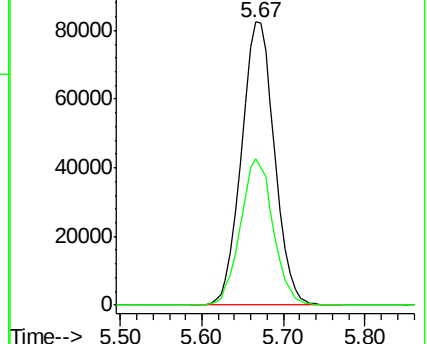
168 100

99 51.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.70 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002850.D

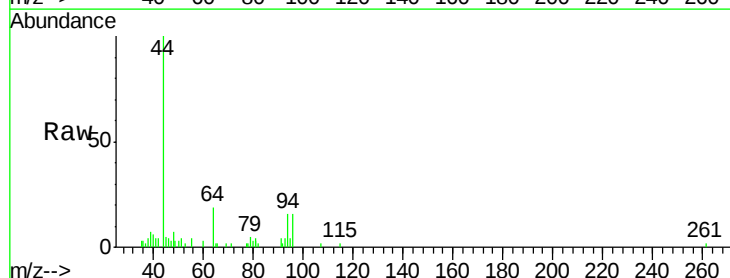
Acq: 22 Jun 2018 23:58

Tgt Ion: 94 Resp: 1277

Ion Ratio Lower Upper

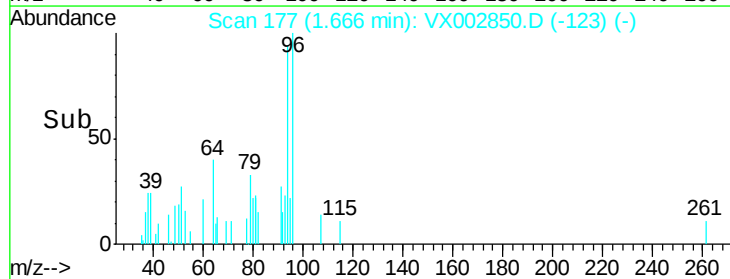
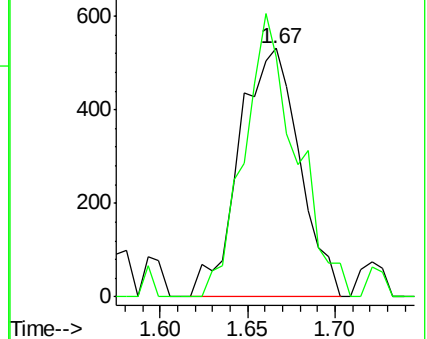
94 100

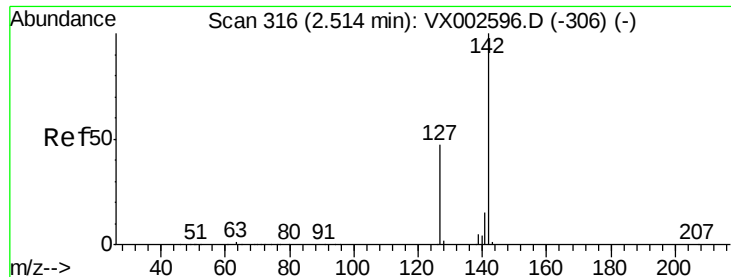
96 96.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

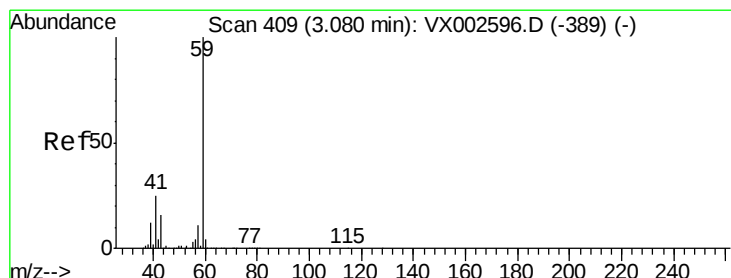
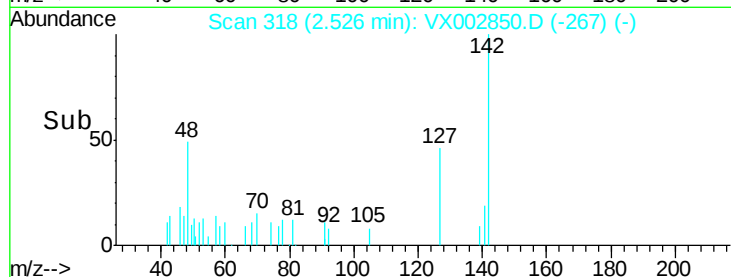
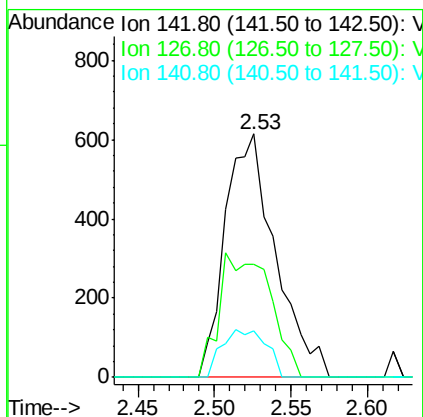
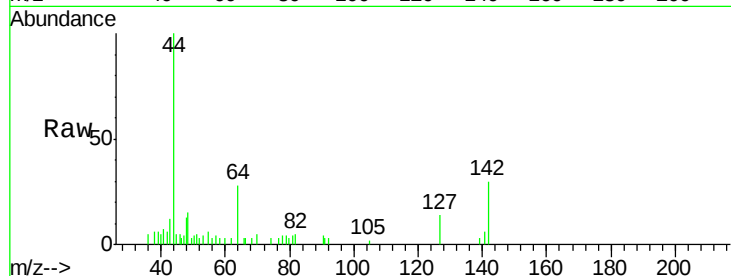




#10
Methvl Iodide
Concen: 5.52 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

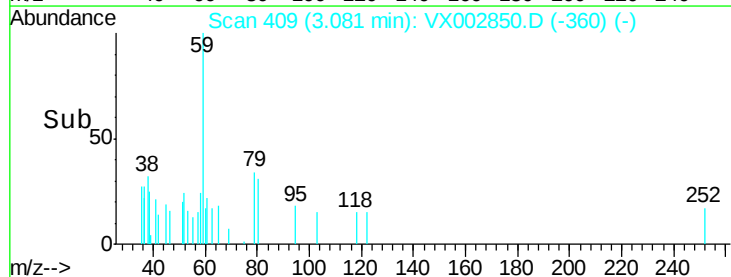
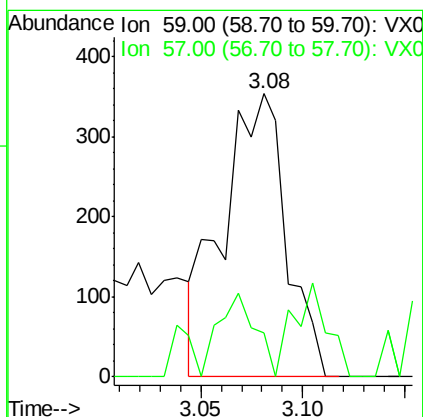
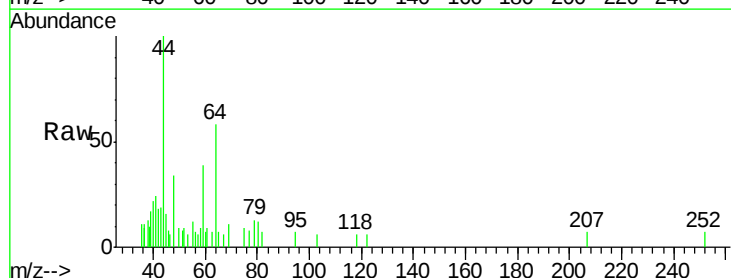
Instrument :
MSVOA_X
ClientSampled :

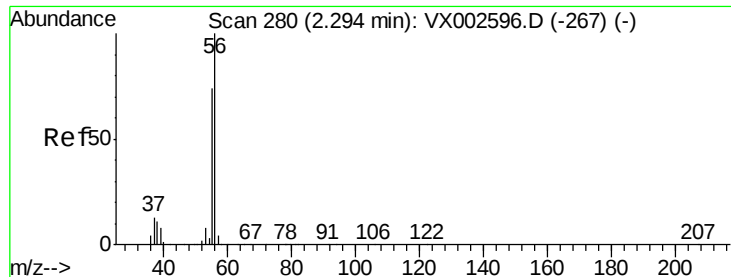
Tot Ion:142 Resp: 1397
Ion Ratio Lower Upper
142 100
127 51.8 36.6 55.0
141 17.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.05 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Tgt Ion: 59 Resp: 764
Ion Ratio Lower Upper
59 100
57 17.1 8.2 12.2#





#13

Acrolein

Concen: 7.86 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

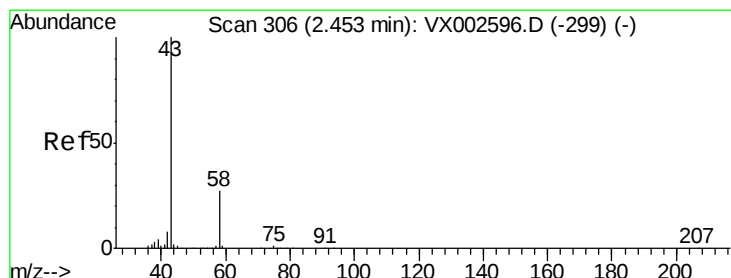
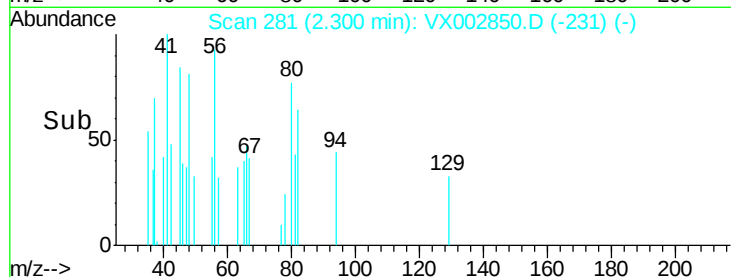
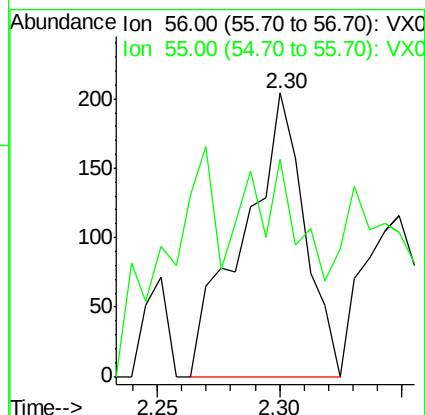
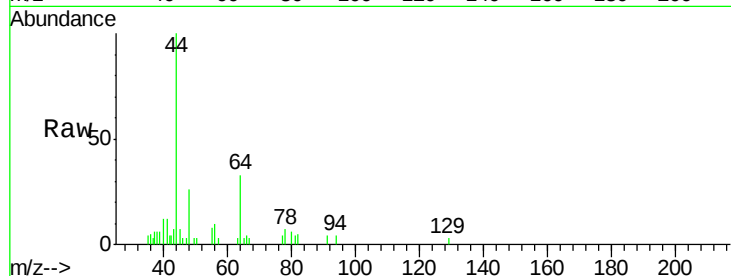
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 349

Ion Ratio Lower Upper

56 100

55 26.1 57.0 85.4#



#16

Acetone

Concen: 16.43 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002850.D

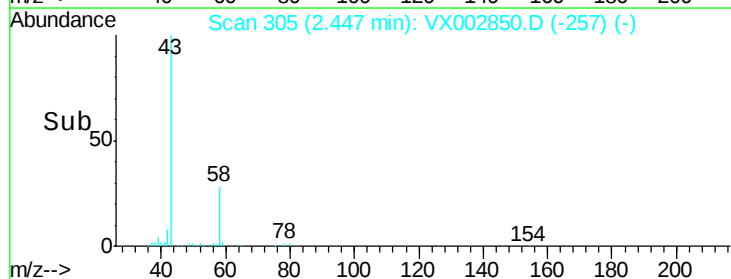
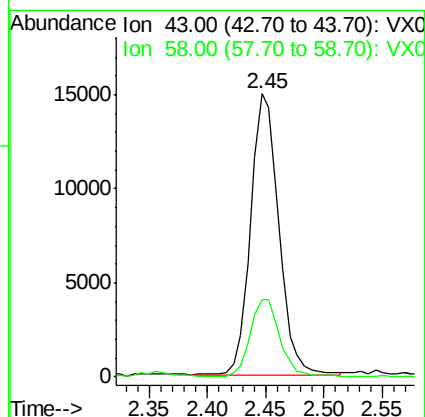
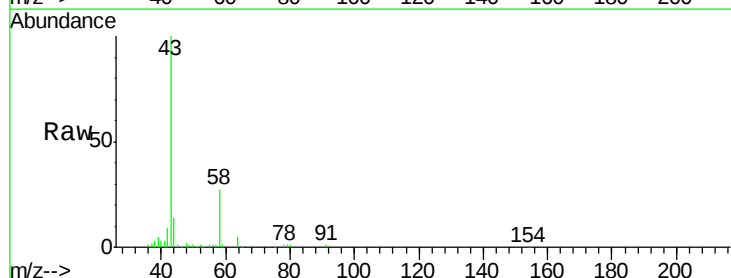
Acq: 22 Jun 2018 23:58

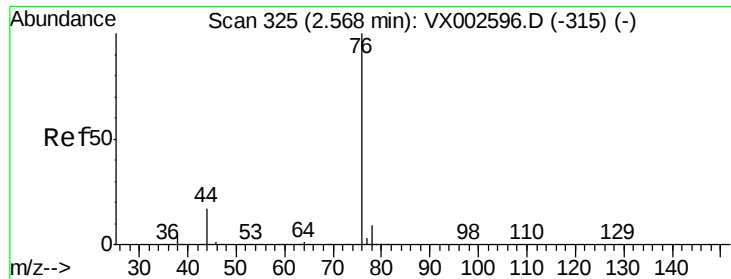
Tgt Ion: 43 Resp: 25558

Ion Ratio Lower Upper

43 100

58 27.3 22.1 33.1

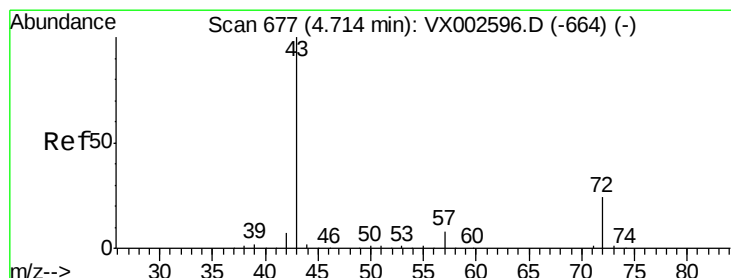
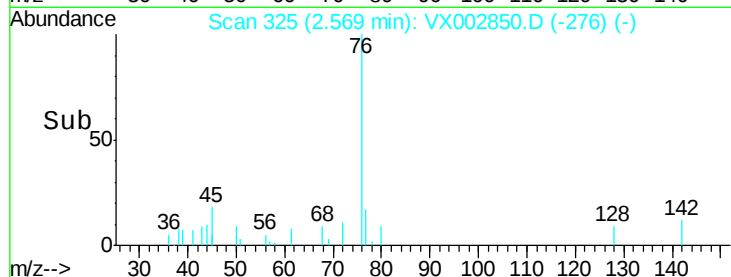
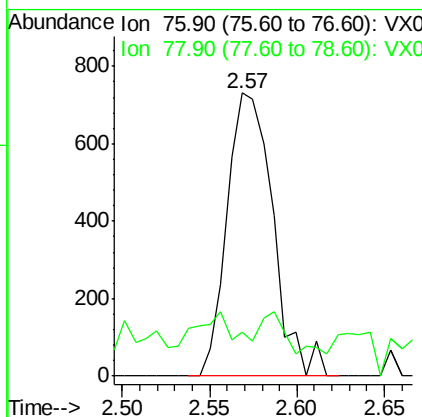
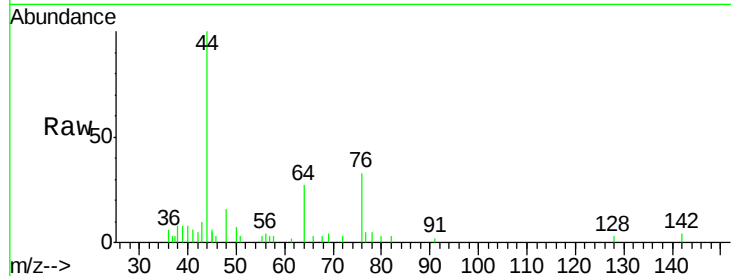




#17
Carbon Disulfide
Concen: 0.22 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

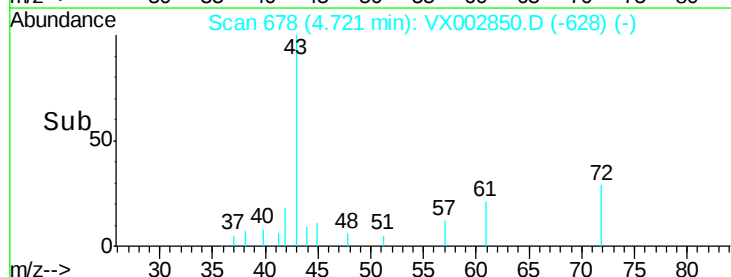
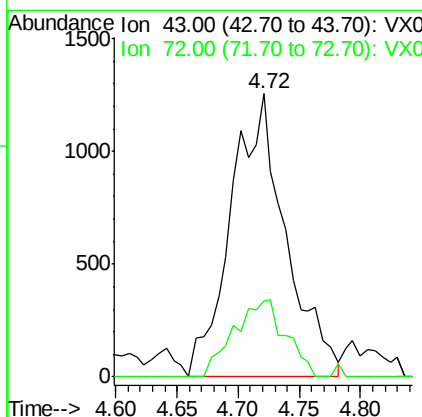
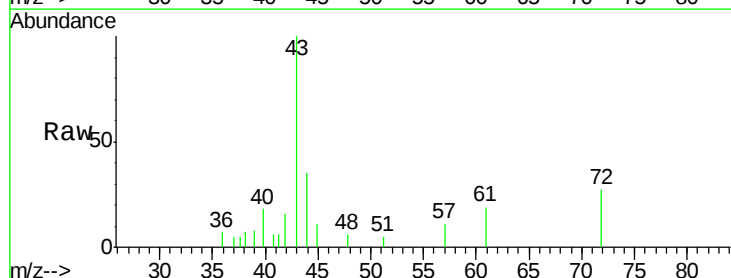
Instrument :
MSVOA_X
ClientSampleId :

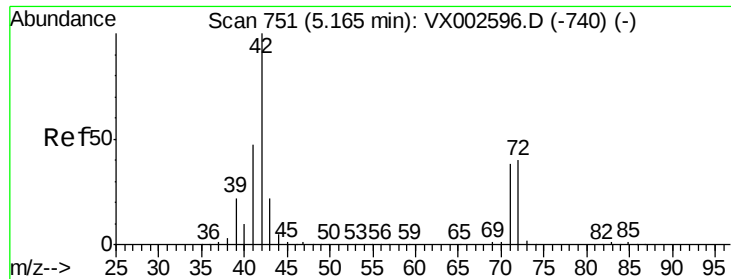
Tot Ion: 76 Resp: 1331
Ion Ratio Lower Upper
76 100
78 0.8 6.9 10.3#



#25
2-Butanone
Concen: 1.92 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Tgt Ion: 43 Resp: 3916
Ion Ratio Lower Upper
43 100
72 26.9 18.5 27.7

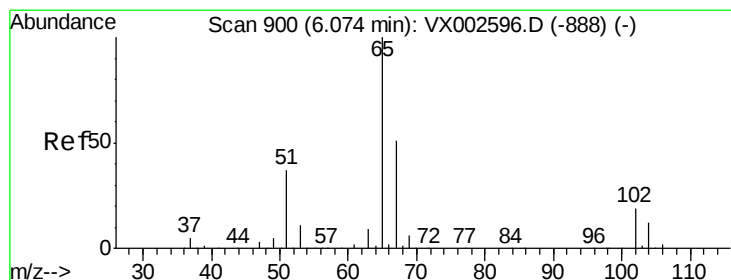
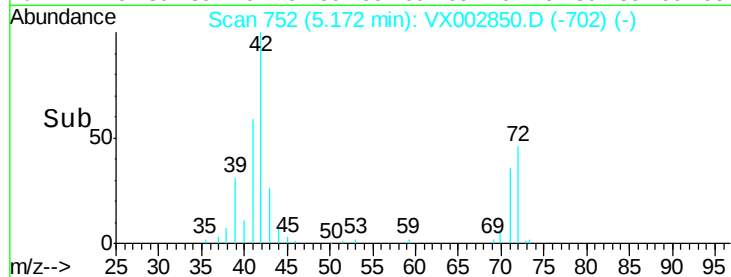
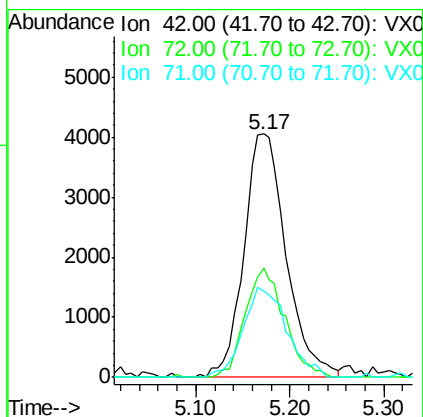
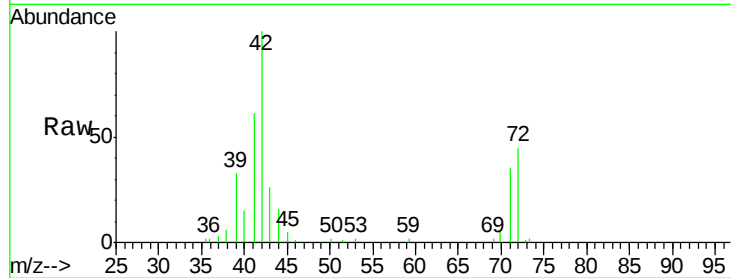




#29
Tetrahydrofuran
Concen: 9.52 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

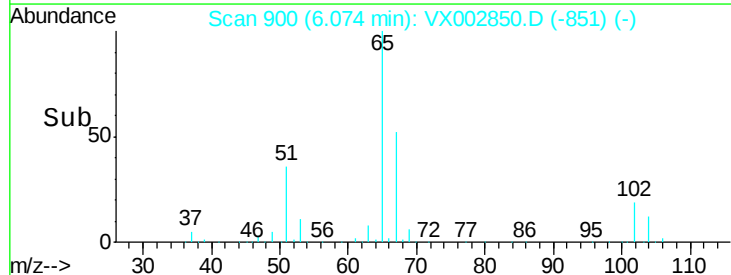
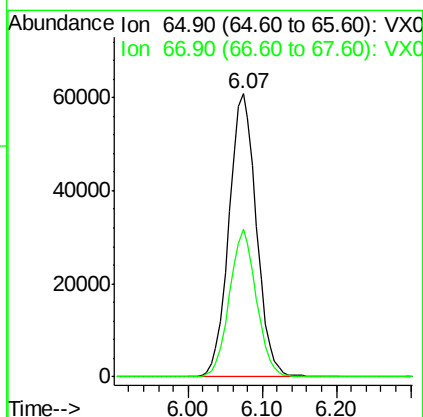
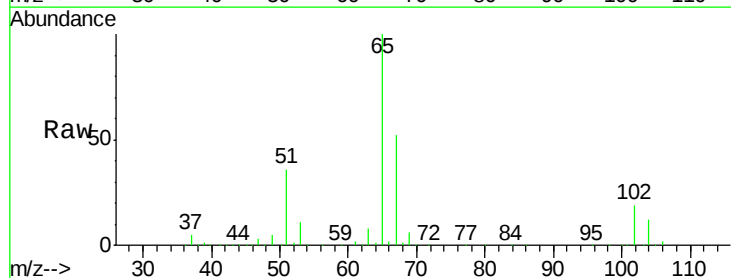
Instrument :
MSVOA_X
ClientSampled :

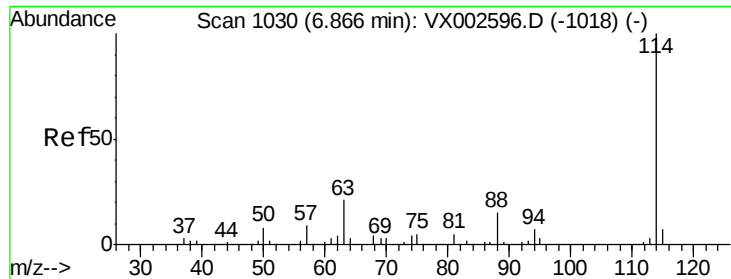
Tot Ion: 42 Resp: 12745
Ion Ratio Lower Upper
42 100
72 42.1 32.0 48.0
71 38.0 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 44.55 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Tgt Ion: 65 Resp: 157080
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.6

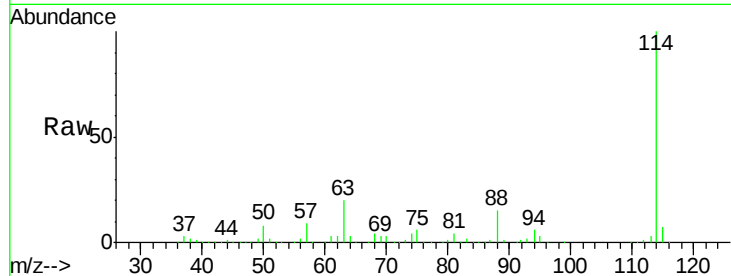




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

Instrument :
 MSVOA_X
 ClientSampleId :

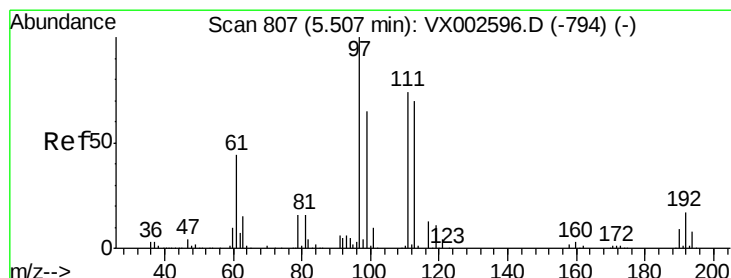
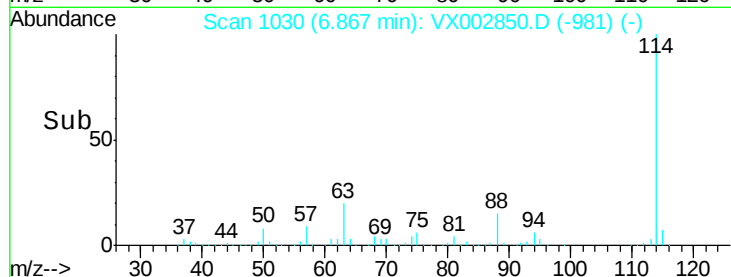
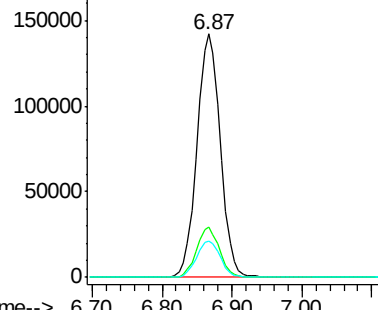
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	41.4
88	14.9	0.0	30.0



Abundance Ion 113.90 (113.60 to 114.60): V

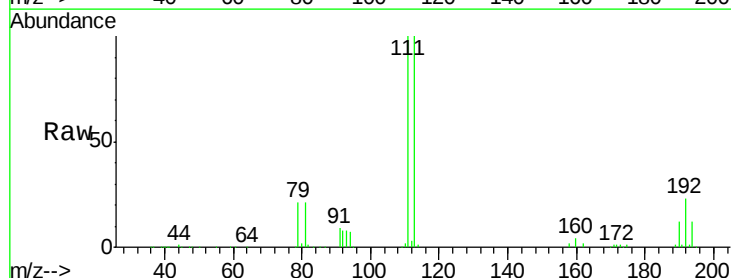
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35
 Dibromofluoromethane
 Concen: 46.93 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

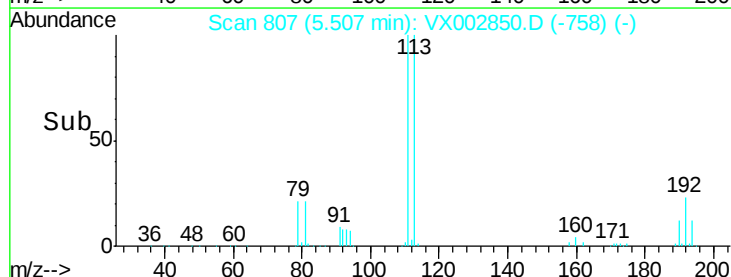
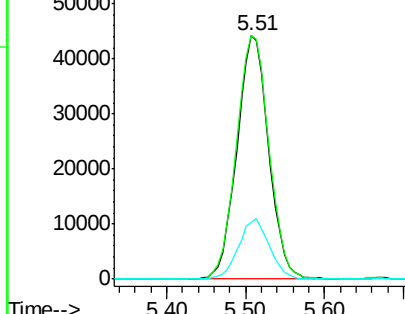
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.0
192	24.1	19.1	28.7

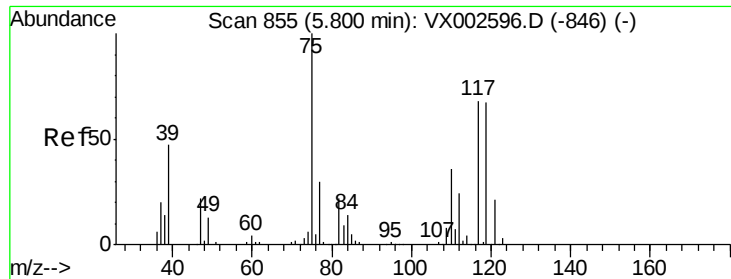


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

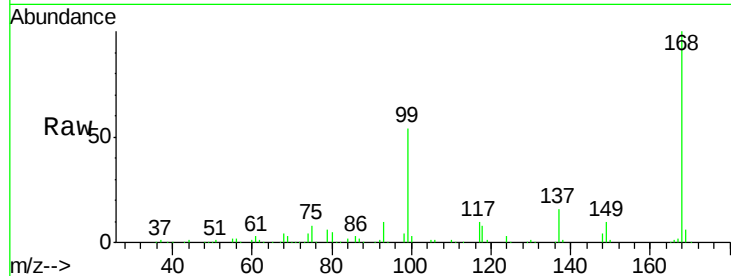




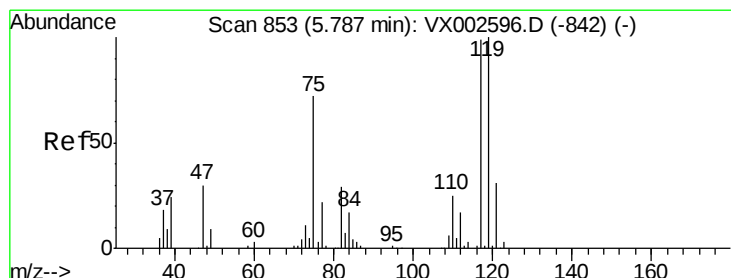
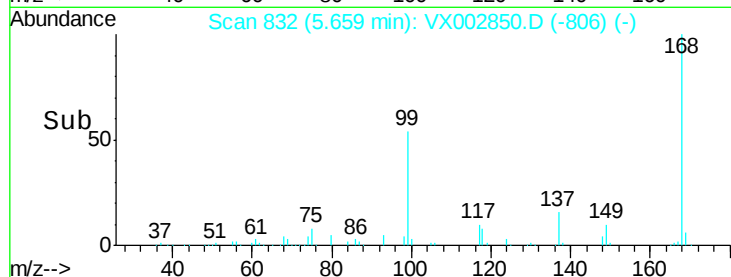
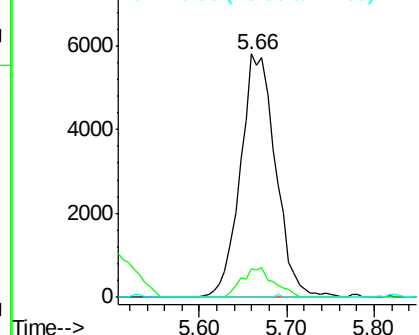
#36
 1,1-Dichloropropene
 Concen: 4.66 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	16294
Ion Ratio	100	Lower	Upper
75	100		
110	11.1	18.1	54.4#
77	0.0	24.3	36.5#

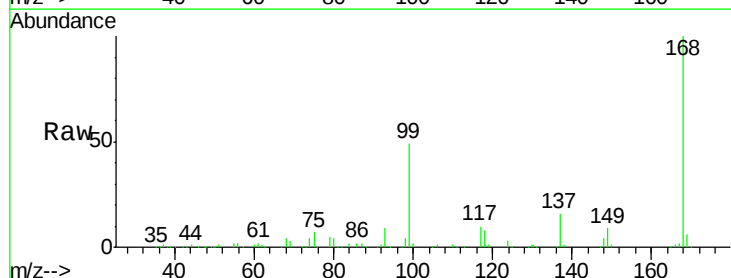


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

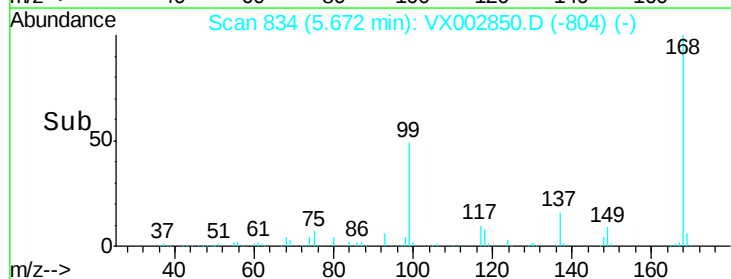
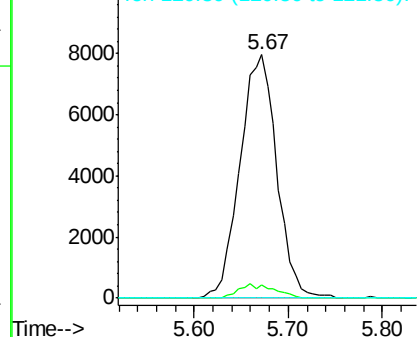


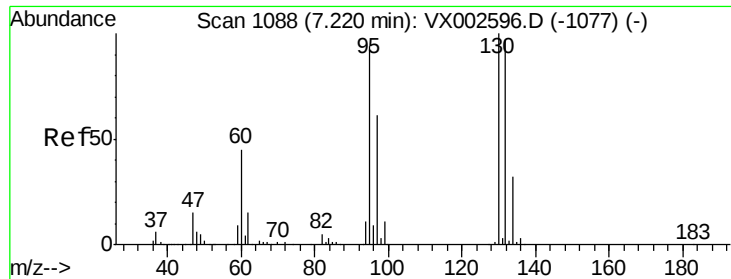
#38
 Carbon Tetrachloride
 Concen: 6.25 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

Tgt Ion	117	Resp	21743
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.3	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

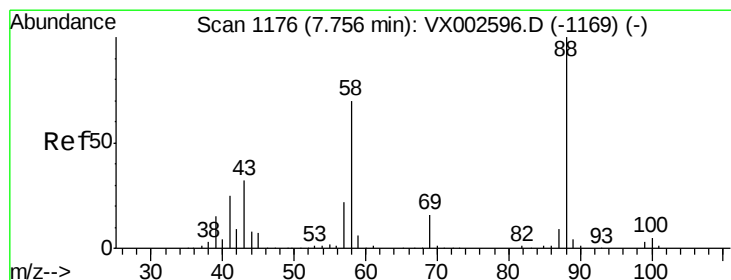
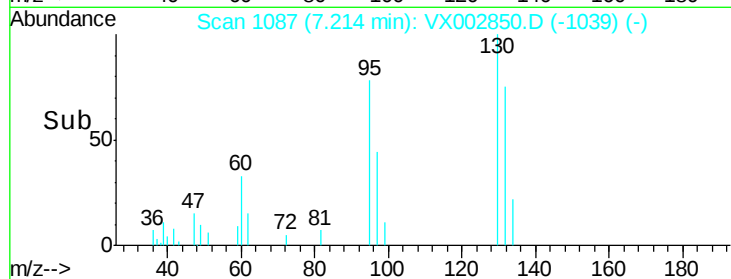
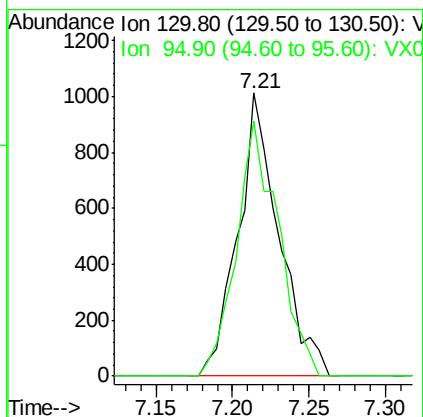
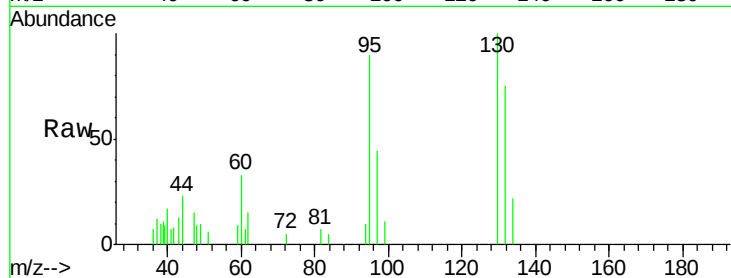




#44
 Trichloroethene
 Concen: 0.62 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

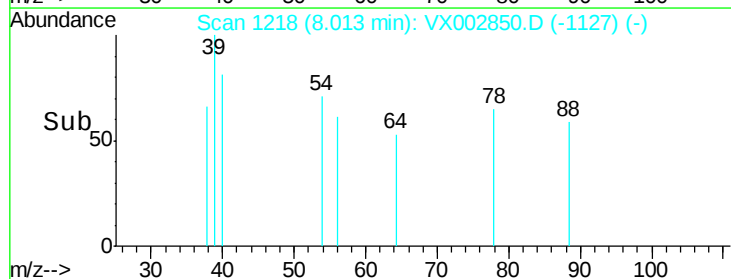
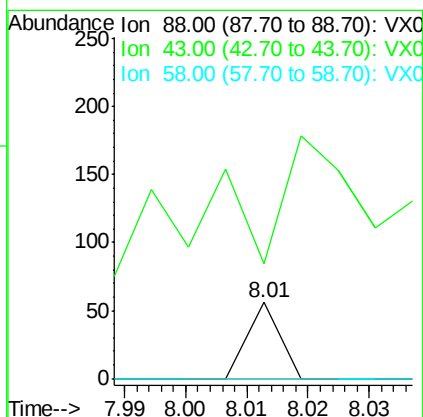
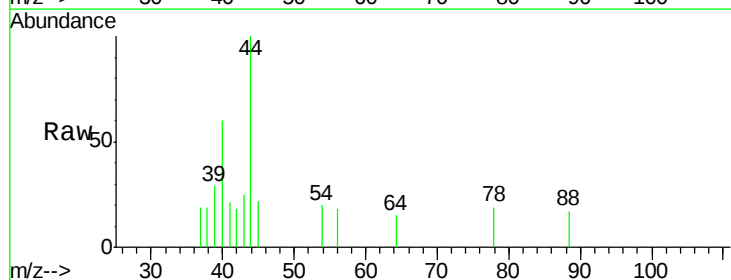
Instrument :
 MSVOA_X
 ClientSampled :

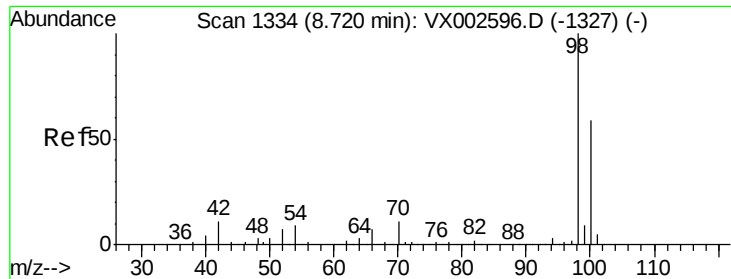
Tot Ion:130 Resp: 1875
 Ion Ratio Lower Upper
 130 100
 95 90.2 0.0 185.4



#49
 1,4-Dioxane
 Concen: 0.32 ug/l
 RT: 8.01 min Scan# 1218
 Delta R.T. 0.26 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

Tgt Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 715.0 29.8 44.6#
 58 0.0 57.1 85.7#

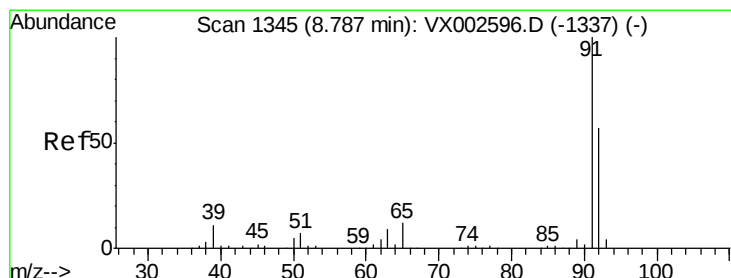
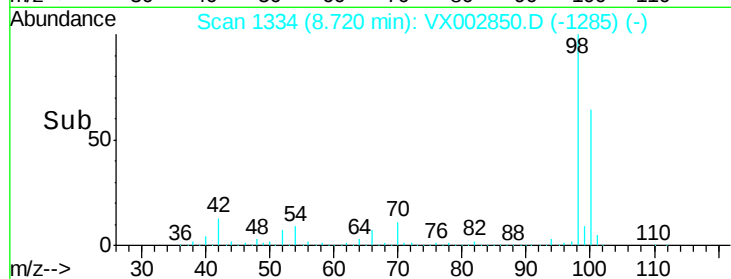
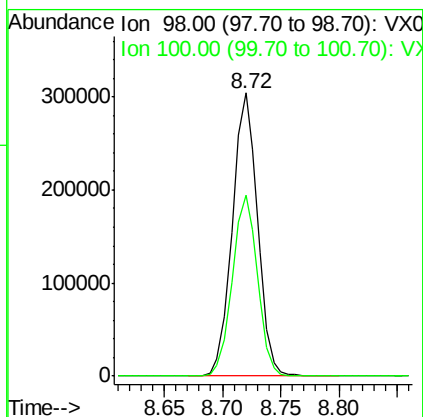
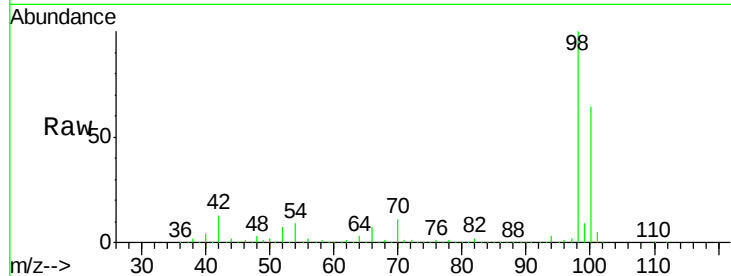




#50
Toluene-d8
Concen: 45.99 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

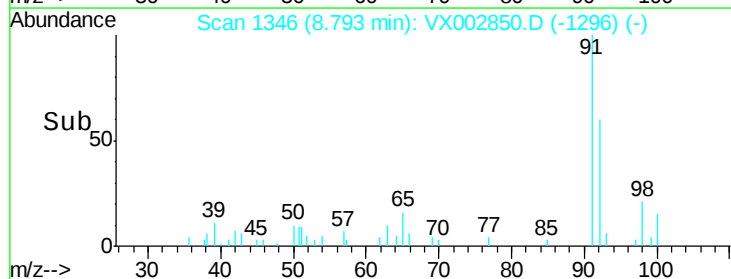
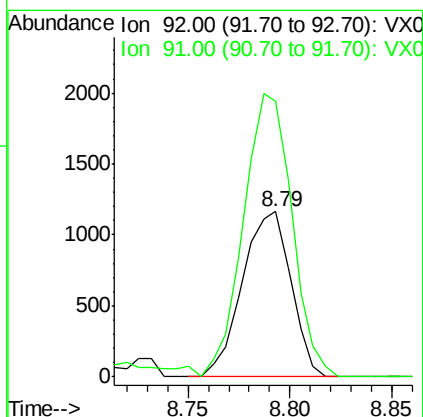
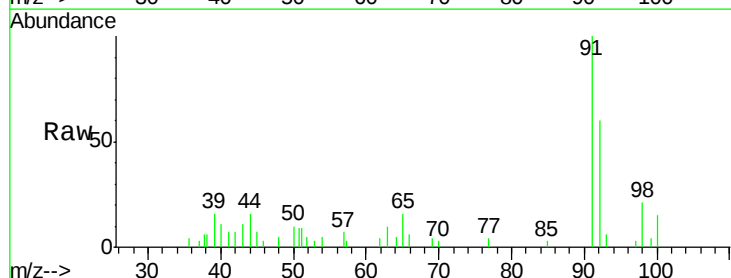
Instrument :
MSVOA_X
ClientSampleId :

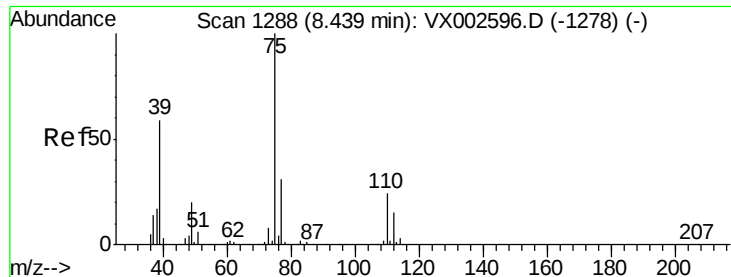
Tot Ion: 98 Resp: 458702
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3



#52
Toluene
Concen: 0.29 ug/l
RT: 8.79 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Tgt Ion: 92 Resp: 1926
Ion Ratio Lower Upper
92 100
91 171.2 140.4 210.6





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.18 min Scan# 1246

Delta R.T. -0.26 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

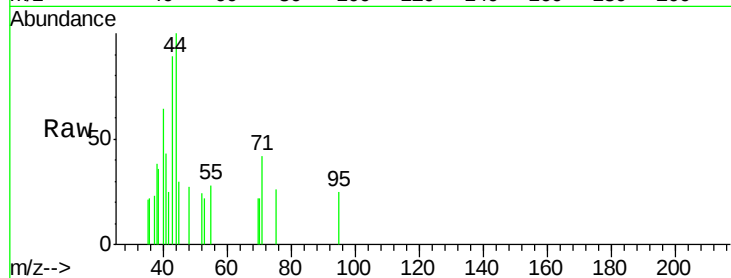
ClientSampled :

Tot Ion: 75 Resp: 26

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

8.18

60

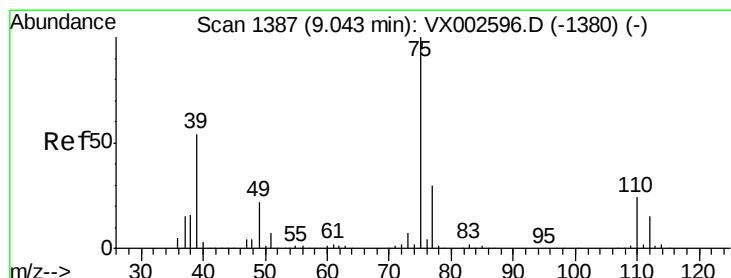
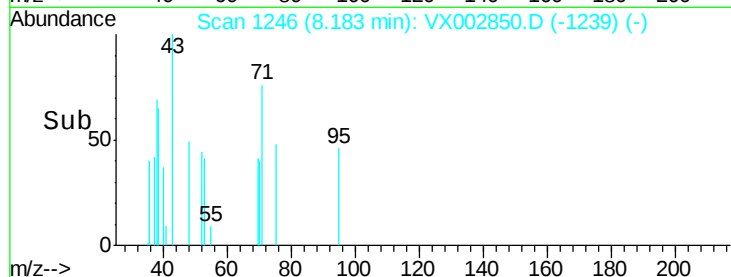
40

20

0

8.16 8.17 8.18 8.19 8.20

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

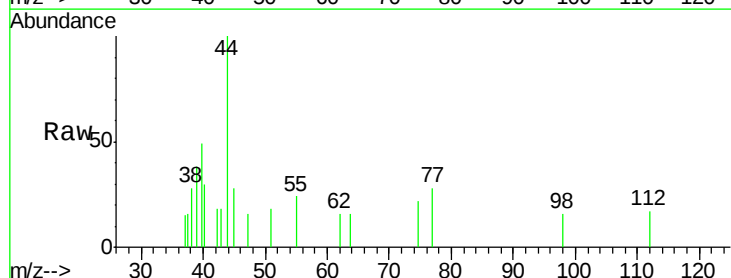
Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

77 57.9 24.8 37.2#

39 298.7 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

200

150

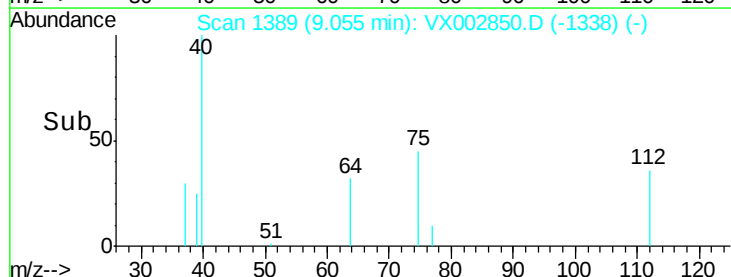
100

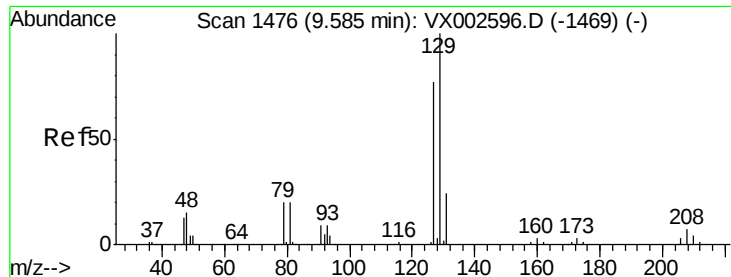
50

0

9.04 9.06 9.08

Time-->





#60

Dibromochloromethane

Concen: 3.87 ug/l

RT: 9.58 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

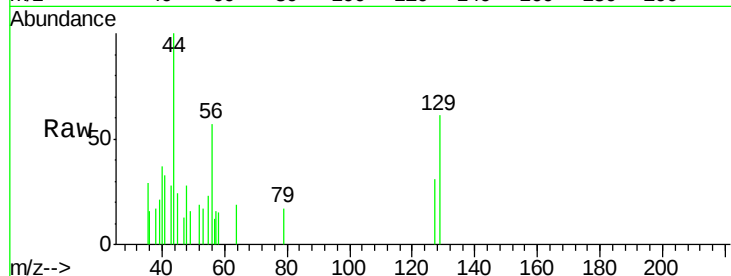
ClientSampled :

Tot Ion:129 Resp: 376

Ion Ratio Lower Upper

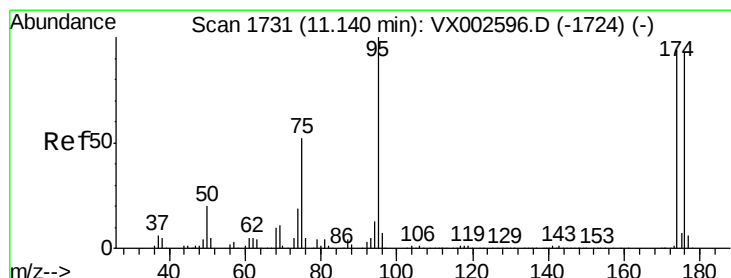
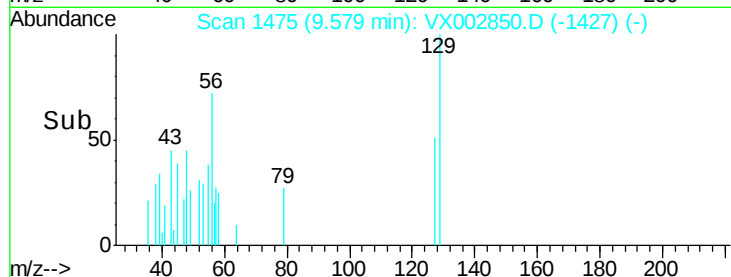
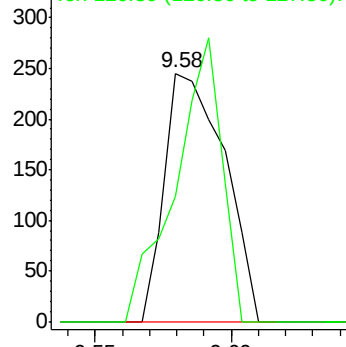
129 100

127 88.3 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: 42.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

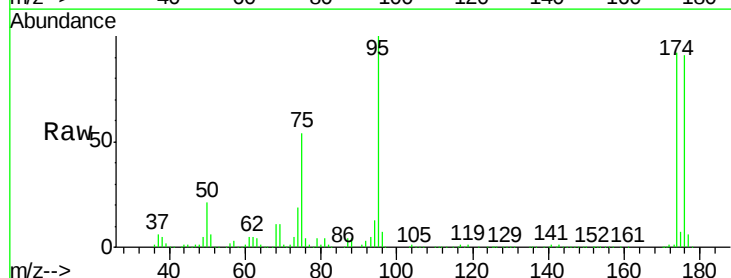
Tgt Ion: 95 Resp: 158807

Ion Ratio Lower Upper

95 100

174 96.3 0.0 187.4

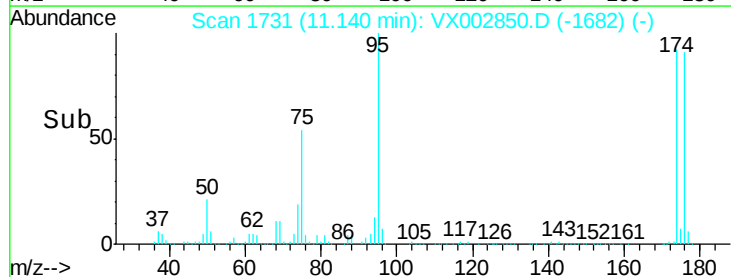
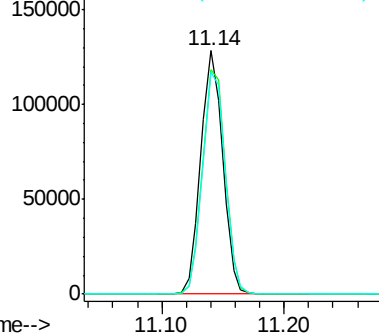
176 93.9 0.0 181.0

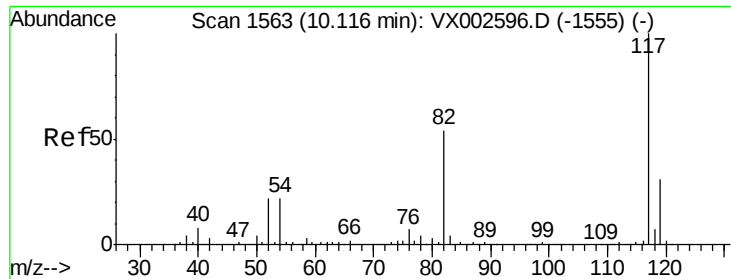


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

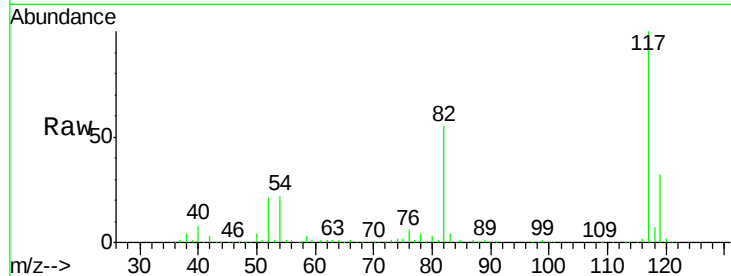




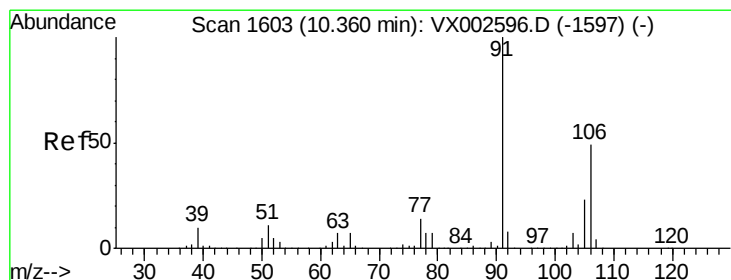
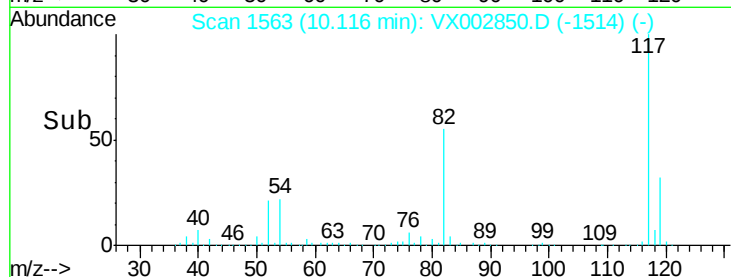
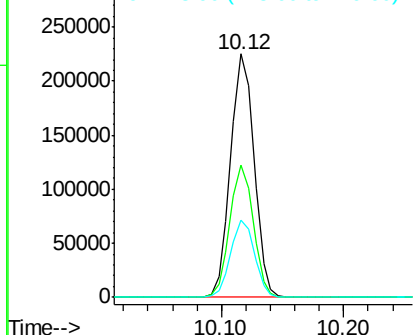
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 300049
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 31.5 25.8 38.6

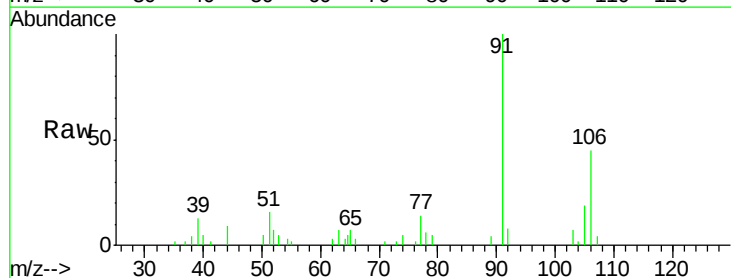


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

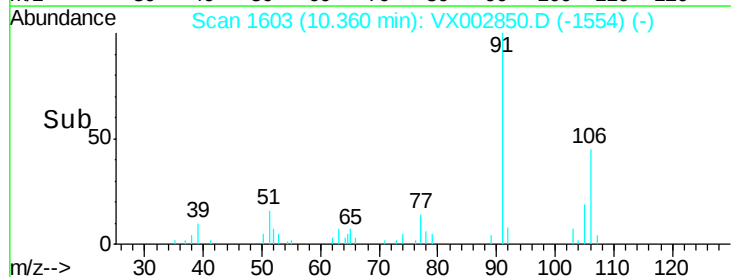
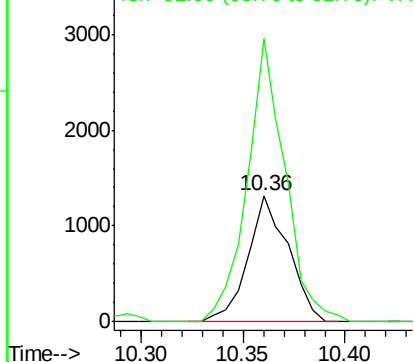


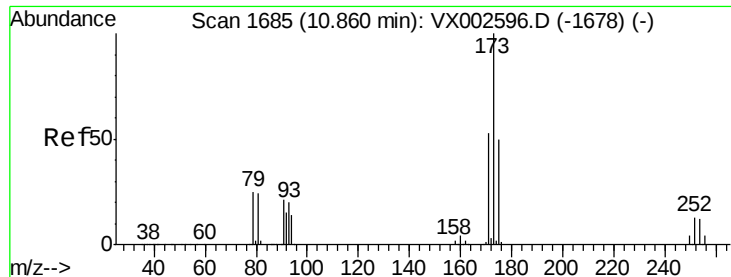
#68
m/p-Xylenes
Concen: 0.38 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX002850.D
Acq: 22 Jun 2018 23:58

Tgt Ion:106 Resp: 1817
Ion Ratio Lower Upper
106 100
91 210.2 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#71

Bromoform

Concen: 4.90 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

ClientSampled :

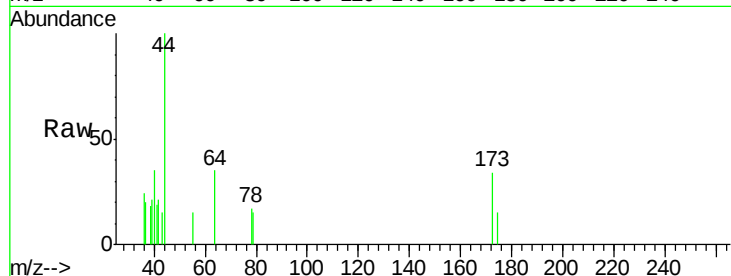
Tot Ion:173 Resp: 142

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

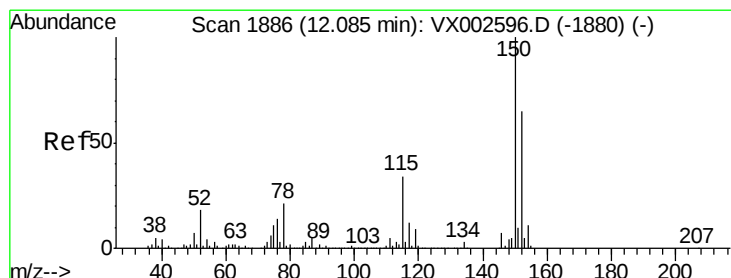
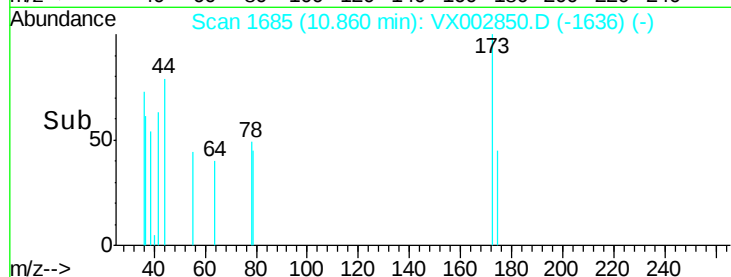
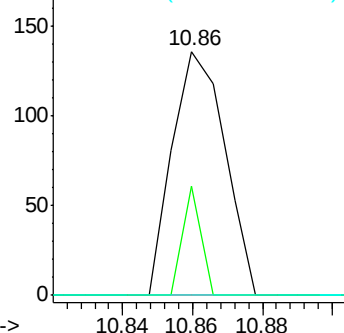
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX002850.D

Acq: 22 Jun 2018 23:58

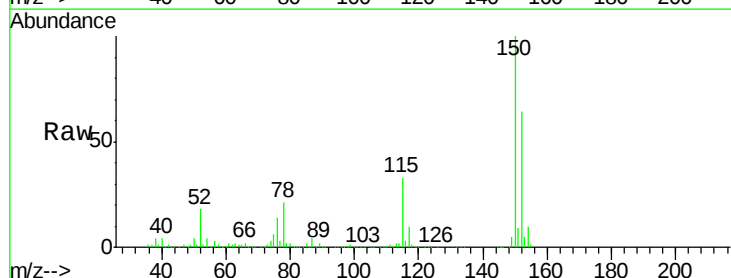
Tgt Ion:152 Resp: 168616

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

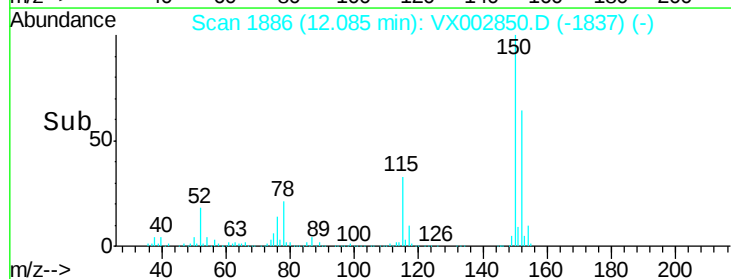
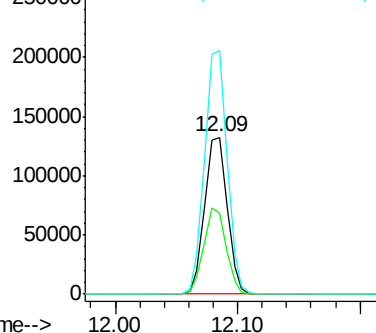
150 155.2 0.0 347.2

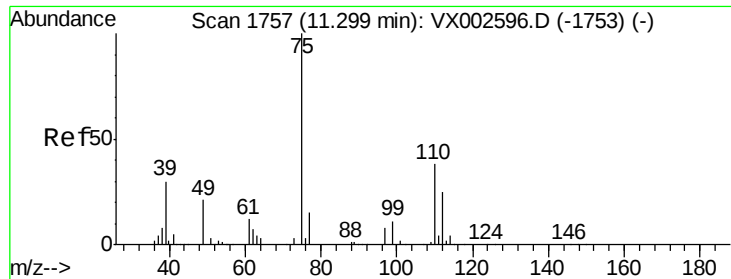


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

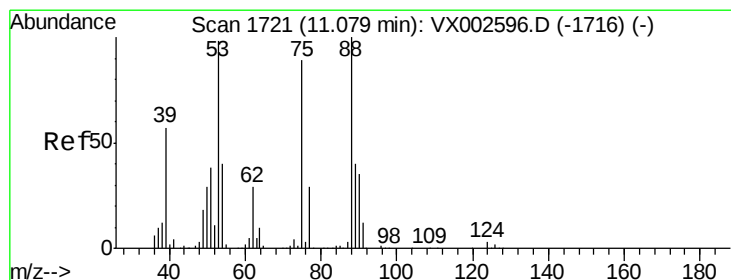
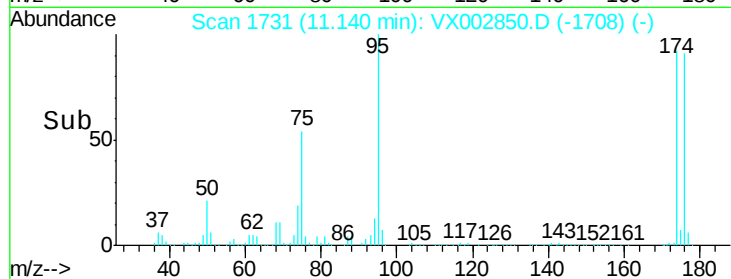
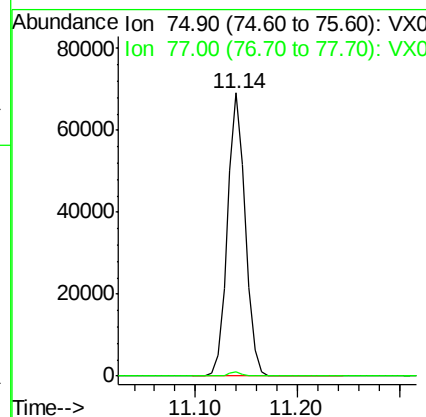
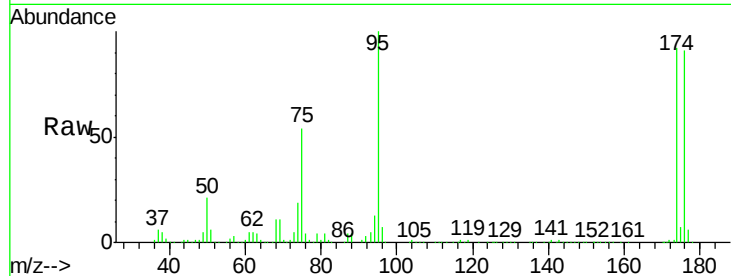




#76
 1,2,3-Trichloropropane
 Concen: 26.26 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

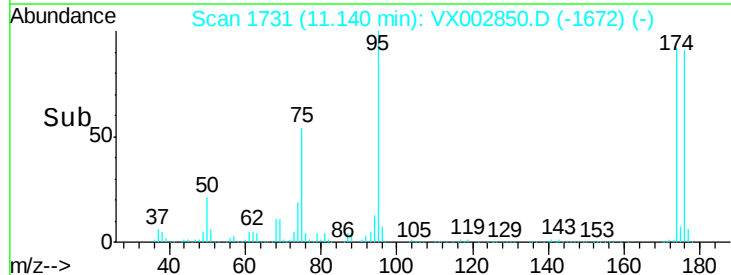
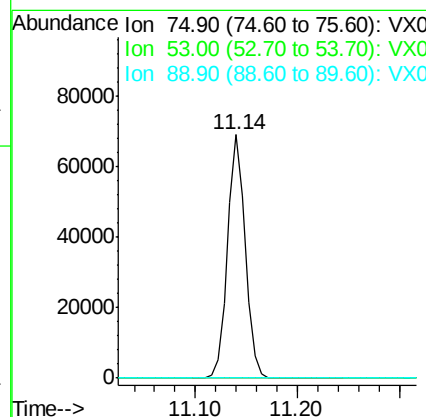
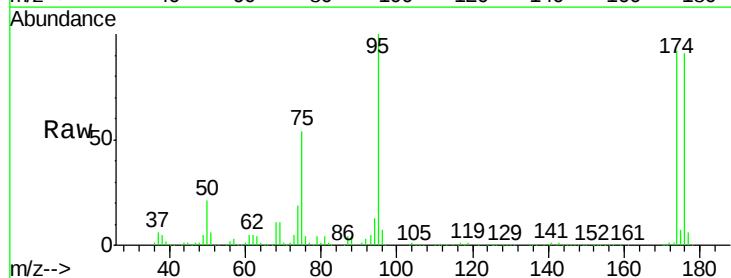
Instrument :
 MSVOA_X
 ClientSampleId :

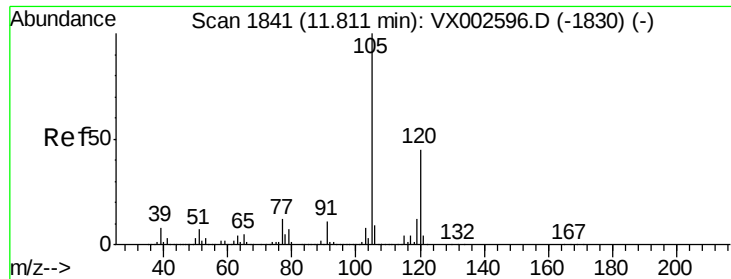
Tot Ion: 75 Resp: 83540
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.17 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002850.D
 Acq: 22 Jun 2018 23:58

Tgt Ion: 75 Resp: 83540
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.27 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

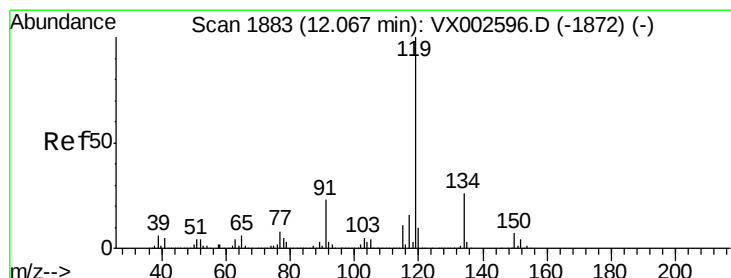
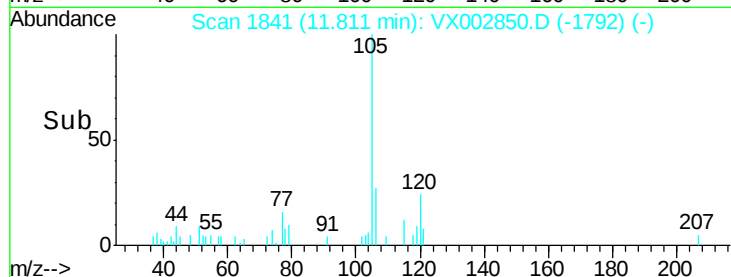
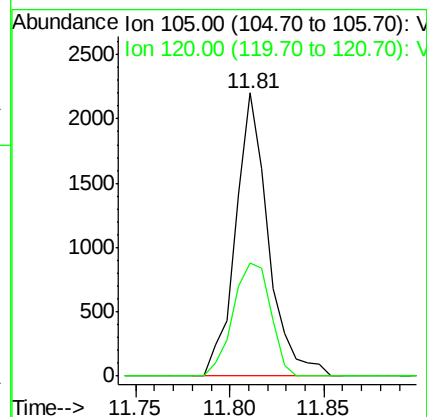
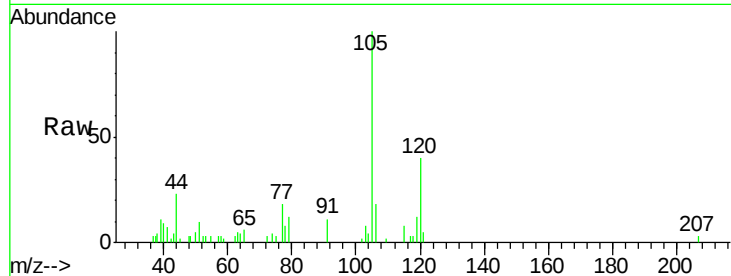
ClientSampled :

Tot Ion:105 Resp: 2653

Ion Ratio Lower Upper

105 100

120 45.7 22.3 66.8



#86

p-Isopropyltoluene

Concen: 0.66 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. 0.01 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

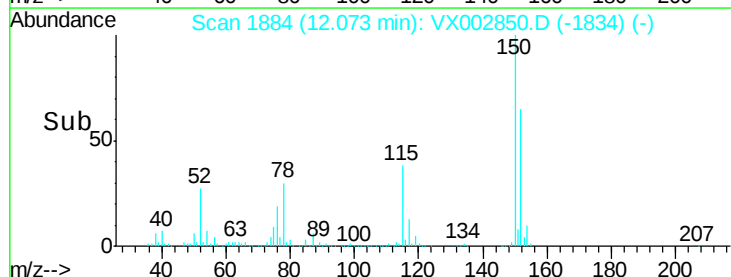
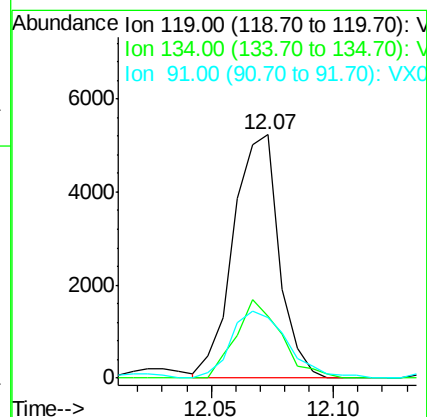
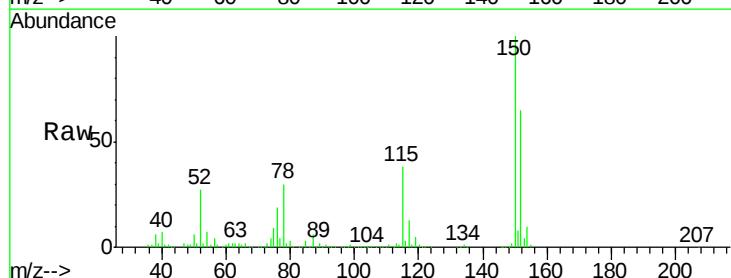
Tgt Ion:119 Resp: 6793

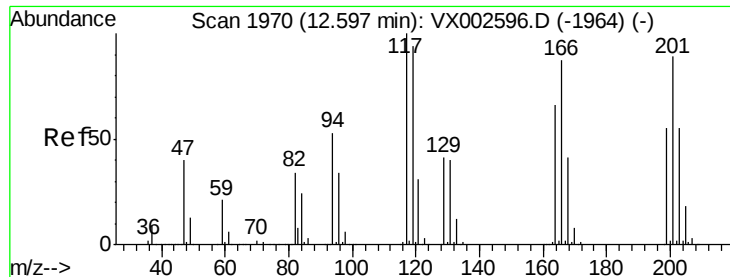
Ion Ratio Lower Upper

119 100

134 32.0 13.4 40.1

91 33.9 11.9 35.7





#90

Hexachloroethane

Concen: 2.94 ug/l

RT: 12.48 min Scan# 1950

Delta R.T. -0.12 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

Instrument :

MSVOA_X

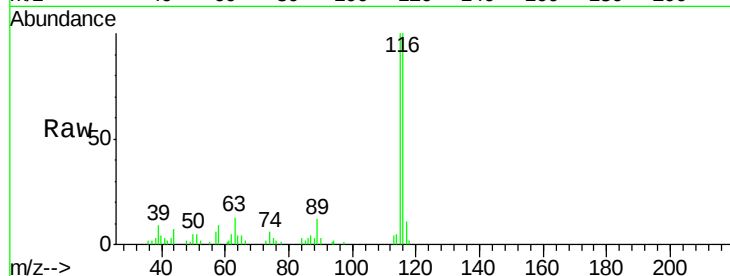
ClientSampled :

Tot Ion:117 Resp: 543

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

12.48

400

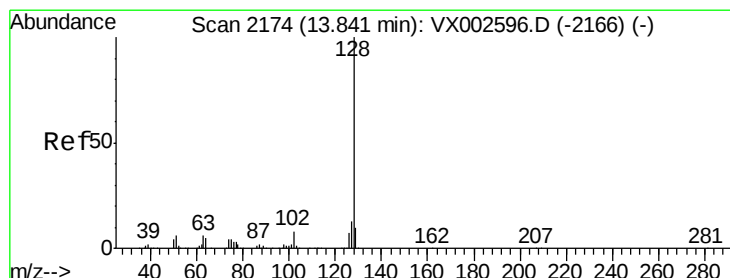
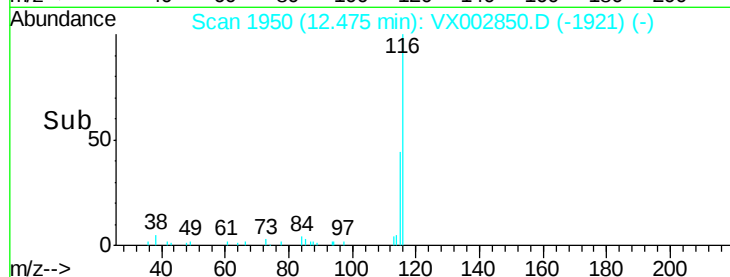
300

200

100

0

Time-->



#95

Naphthalene

Concen: 58.44 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002850.D

Acq: 22 Jun 2018 23:58

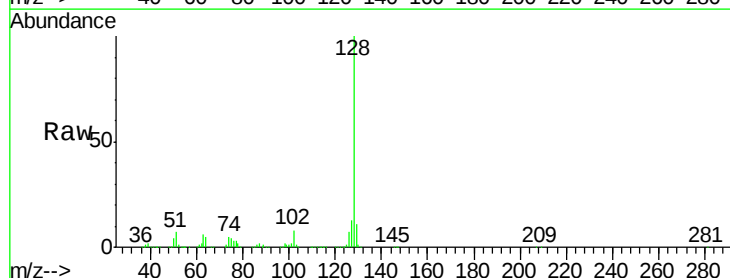
Tgt Ion:128 Resp: 661866

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.8 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

13.84

600000

400000

200000

0

Time-->

