

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002635.D
 Acq On : 16 Jun 2018 09:24
 Operator : JC/MD
 Sample : J3449-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-21

Quant Time: Jun 18 06:08:31 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	225736	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	321311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162353	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	152603	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	
35) Dibromofluoromethane	5.51	113	118314	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	
50) Toluene-d8	8.72	98	457309	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	
62) 4-Bromofluorobenzene	11.14	95	157154	42.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.18%	

Target Compounds

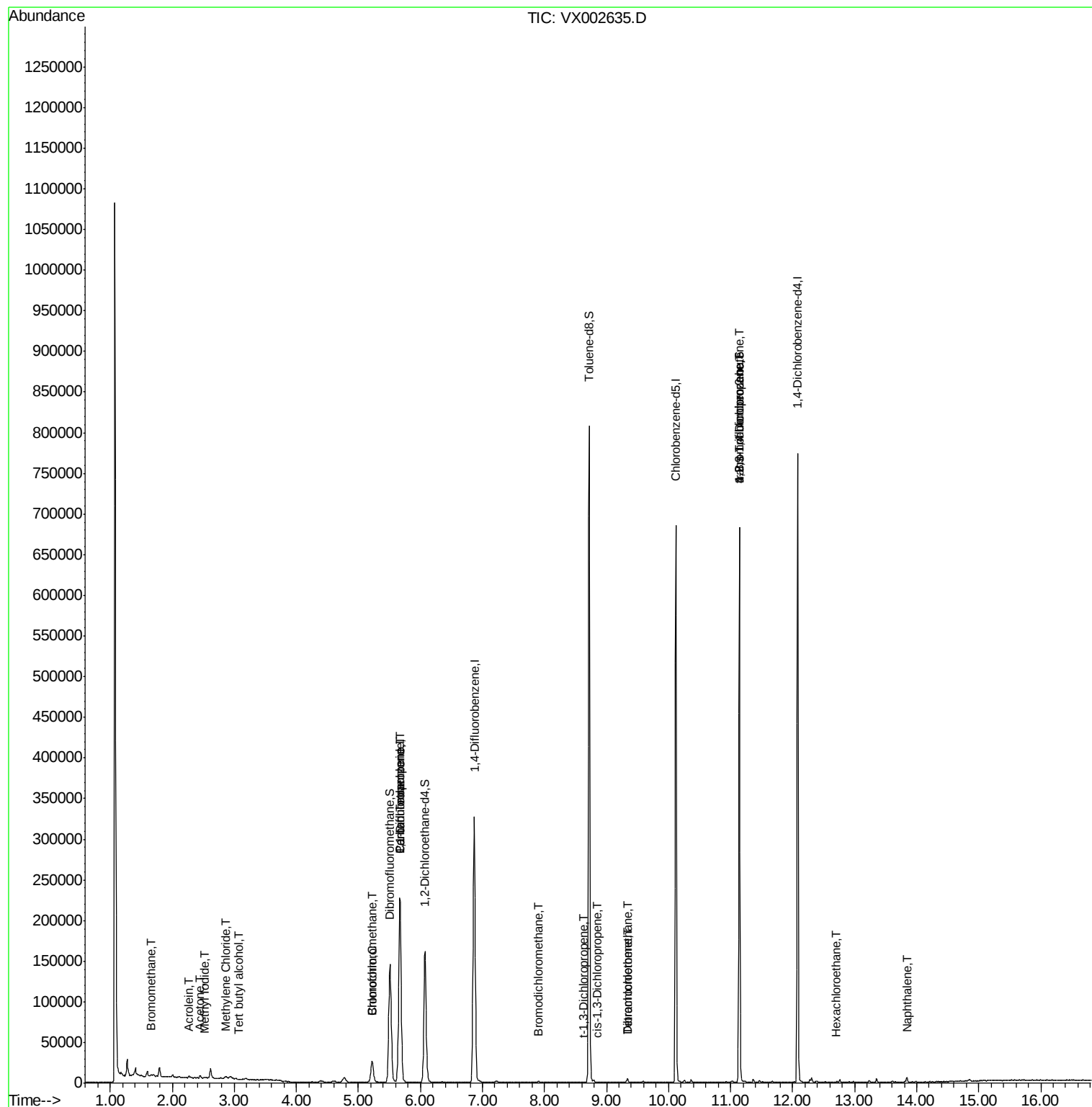
						Qvalue
5) Bromomethane	1.65	94	951	0.53	ug/l	90
10) Methyl Iodide	2.52	142	1295	5.50	ug/l #	94
11) Tert butyl alcohol	3.08	59	236	0.33	ug/l #	85
13) Acrolein	2.27	56	244	7.58	ug/l #	1
16) Acetone	2.45	43	3729	2.46	ug/l #	89
20) Methylene Chloride	2.86	84	1225	0.39	ug/l	93
28) Bromochloromethane	5.22	49	2980	1.29	ug/l #	13
30) Chloroform	5.22	83	29222	6.16	ug/l	98
36) 1,1-Dichloropropene	5.67	75	15490	4.54	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20759	6.11	ug/l #	16
47) Bromodichloromethane	7.90	83	857	0.27	ug/l #	92
53) t-1,3-Dichloropropene	8.63	75	21	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	8.85	75	20	3.22	ug/l #	32
60) Dibromochloromethane	9.34	129	767	4.00	ug/l #	11
64) Tetrachloroethene	9.34	164	837	0.25	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	84339	27.53	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84339	84.90	ug/l #	7
90) Hexachloroethane	12.70	117	211	2.75	ug/l #	1
95) Naphthalene	13.84	128	3774	0.35	ug/l #	97

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

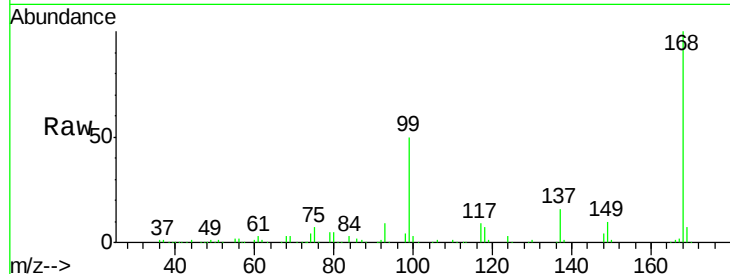
W-21

Tot Ion:168 Resp: 225736

Ion Ratio Lower Upper

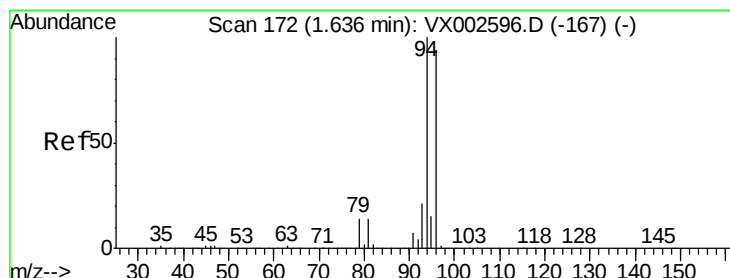
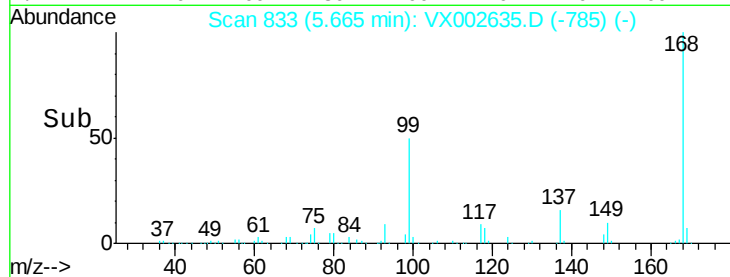
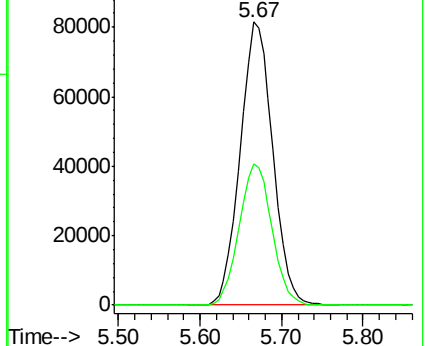
168 100

99 50.0 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: 0.53 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002635.D

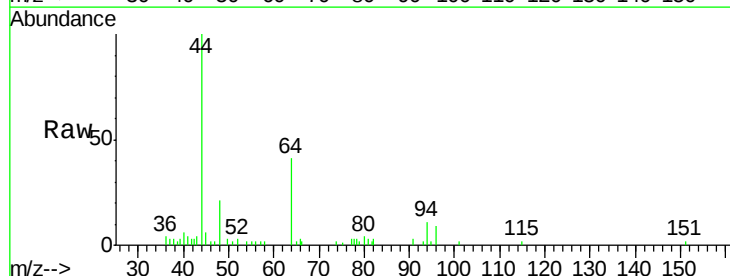
Acq: 16 Jun 2018 09:24

Tgt Ion: 94 Resp: 951

Ion Ratio Lower Upper

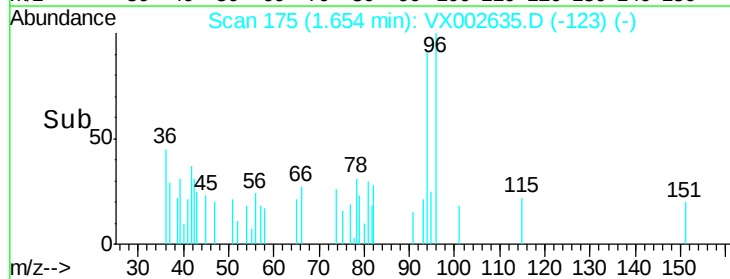
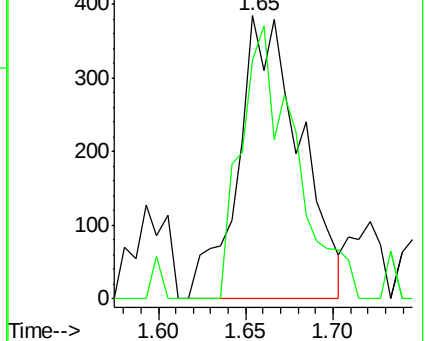
94 100

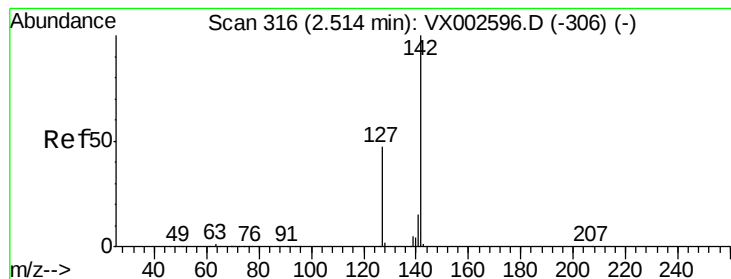
96 84.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 5.50 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampled :

W-21

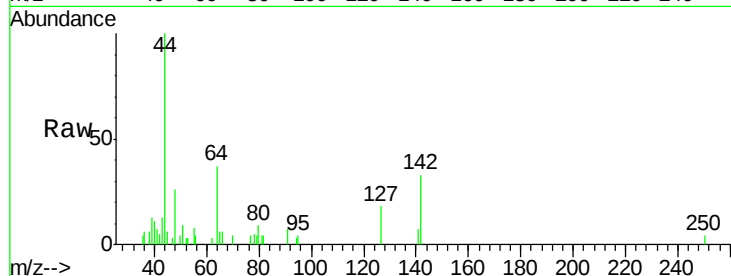
Tot Ion:142 Resp: 1295

Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

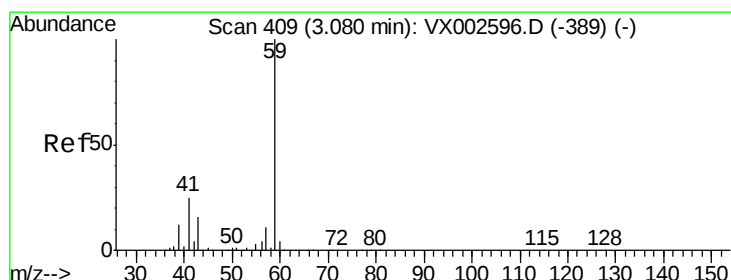
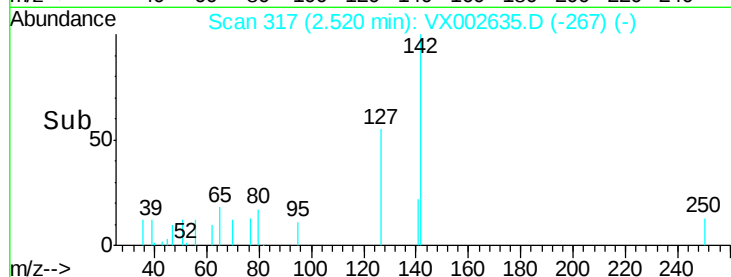
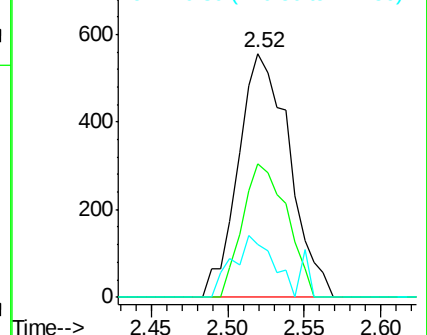
141 19.9 11.3 16.9#



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: 0.33 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002635.D

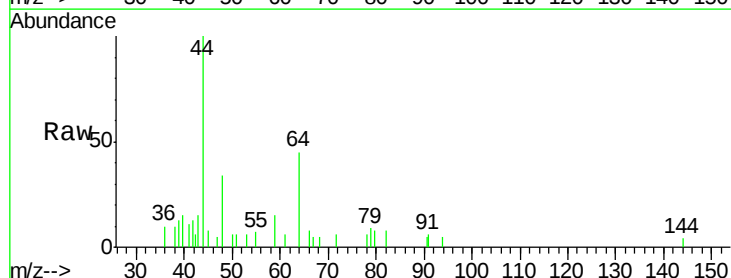
Acq: 16 Jun 2018 09:24

Tgt Ion: 59 Resp: 236

Ion Ratio Lower Upper

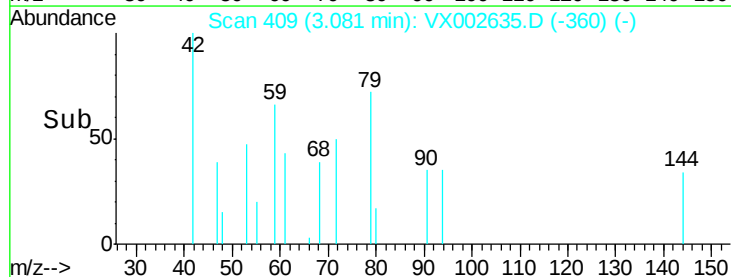
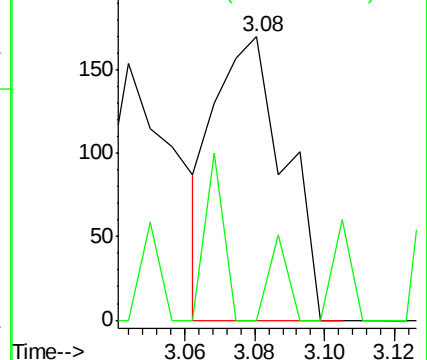
59 100

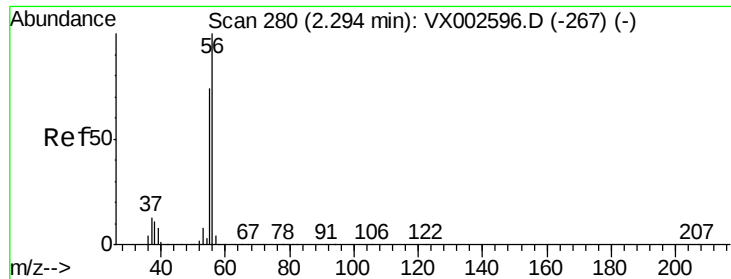
57 15.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.58 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.02 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

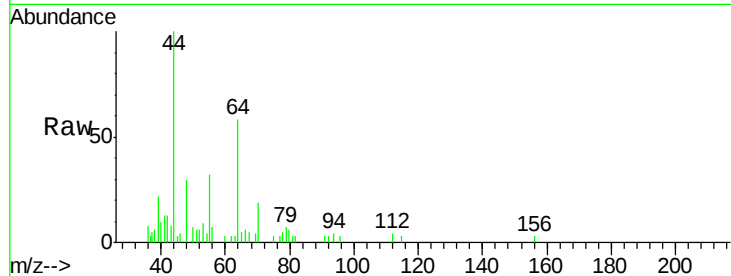
W-21

Tot Ion: 56 Resp: 244

Ion Ratio Lower Upper

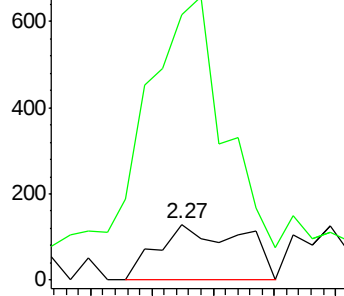
56 100

55 403.7 57.0 85.4#

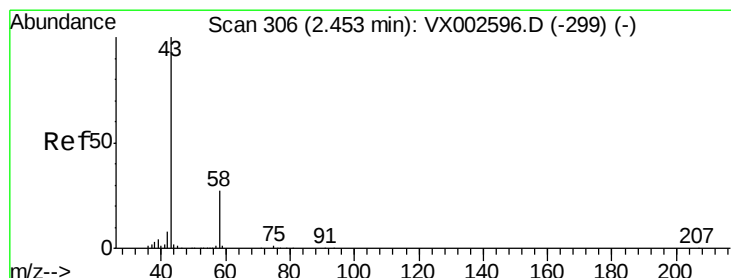
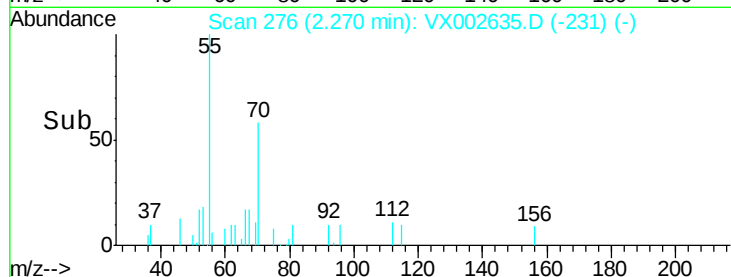


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.46 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002635.D

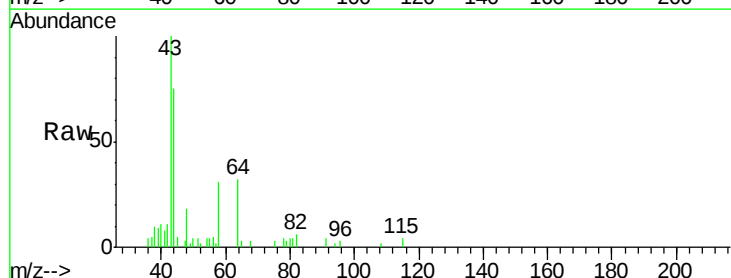
Acq: 16 Jun 2018 09:24

Tgt Ion: 43 Resp: 3729

Ion Ratio Lower Upper

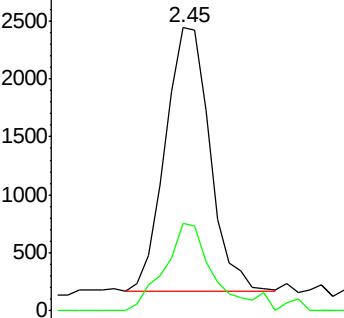
43 100

58 33.4 22.1 33.1#

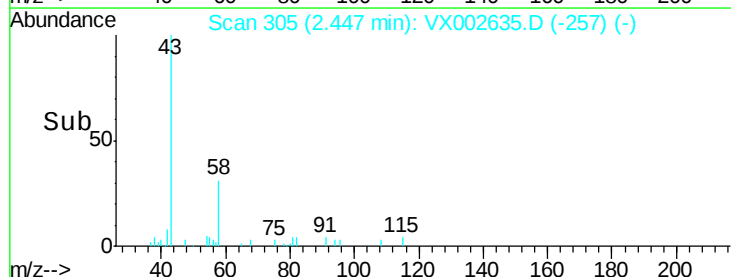


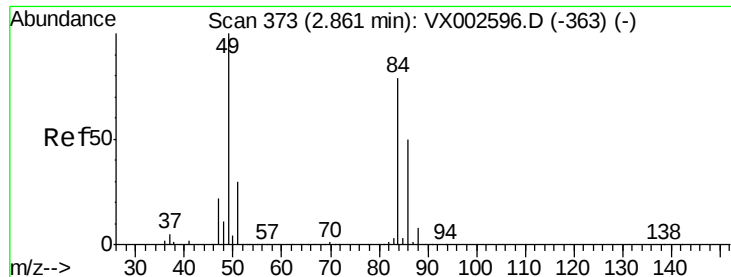
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

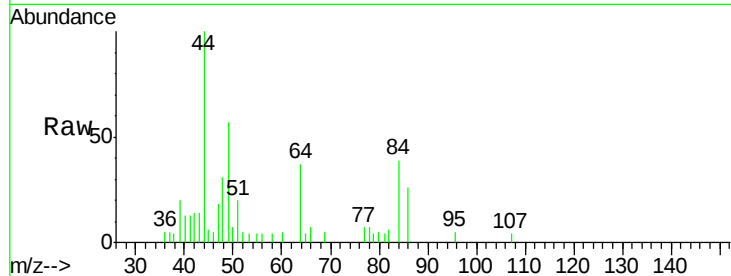




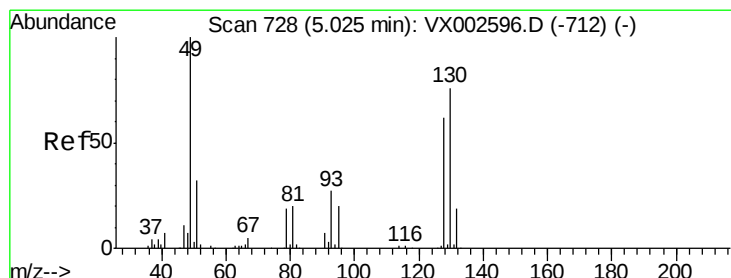
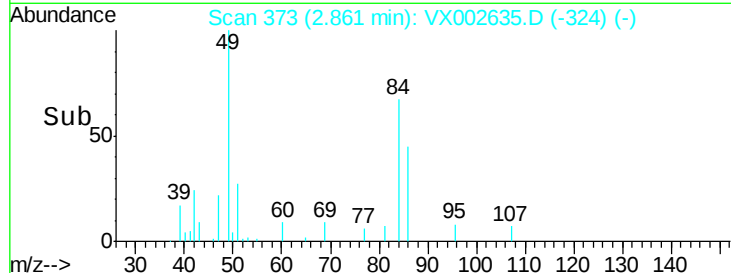
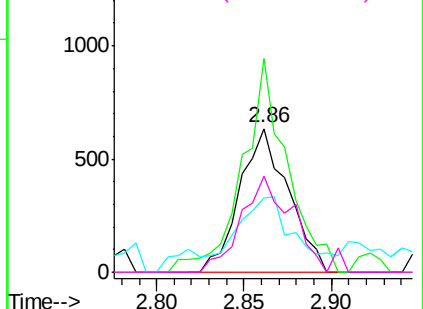
#20
Methvlene Chloride
Concen: 0.39 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002635.D
Acq: 16 Jun 2018 09:24

Instrument :
MSVOA_X
ClientSampled :
W-21

Tot Ion: 84 Resp: 1225
Ion Ratio Lower Upper
84 100
49 148.5 107.8 161.6
51 39.7 32.8 49.2
86 66.5 52.5 78.7

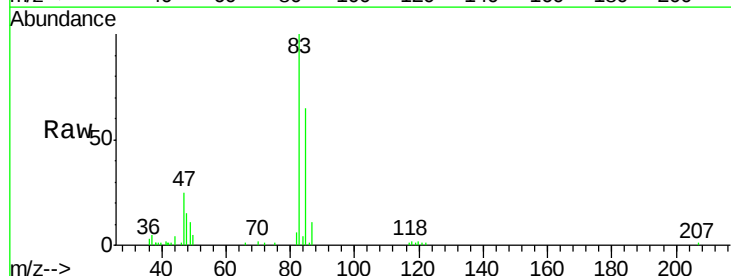


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

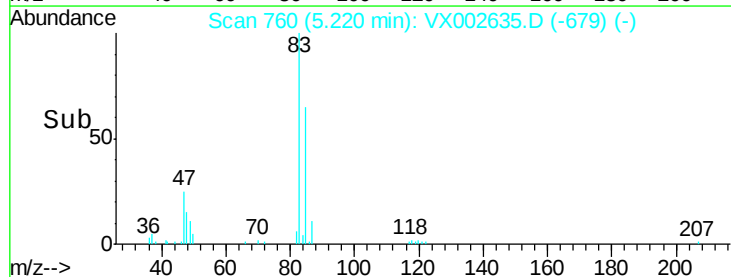
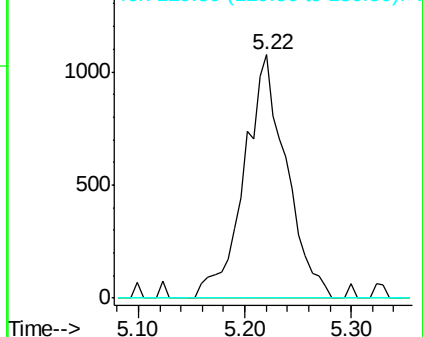


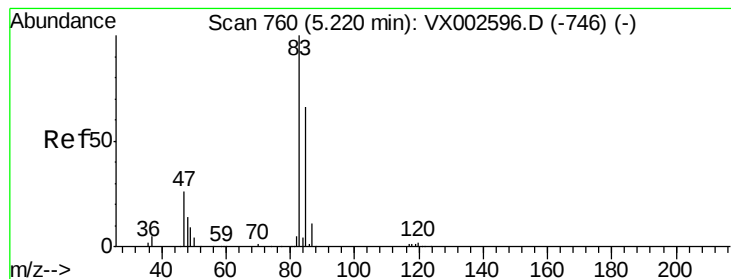
#28
Bromochloromethane
Concen: 1.29 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.20 min
Lab File: VX002635.D
Acq: 16 Jun 2018 09:24

Tgt Ion: 49 Resp: 2980
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#30

Chloroform

Concen: 6.16 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampled :

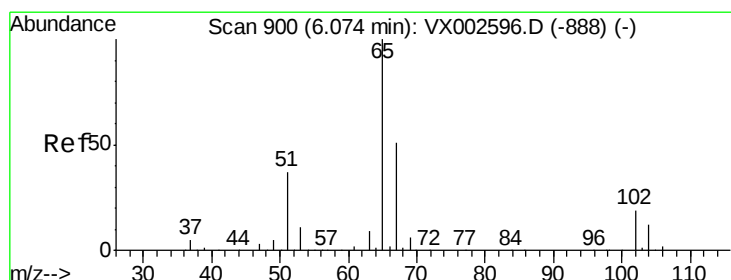
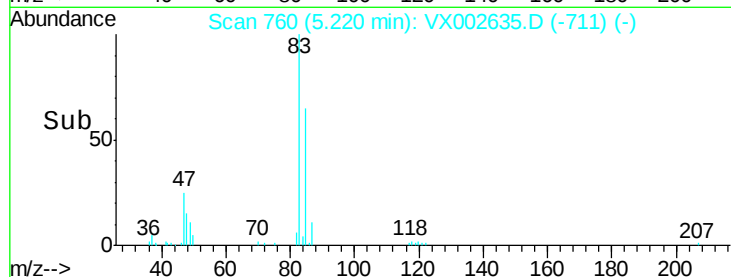
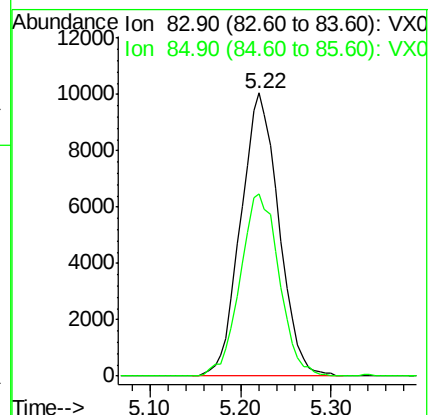
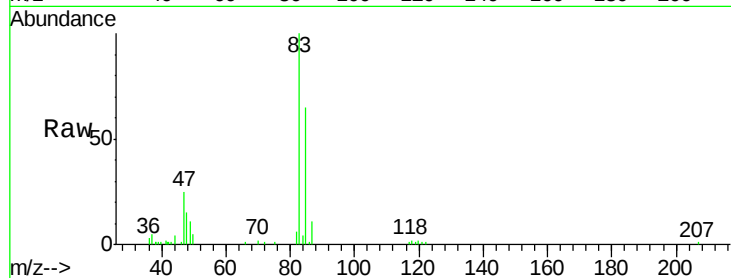
W-21

Tot Ion: 83 Resp: 29222

Ion Ratio Lower Upper

83 100

85 64.5 50.4 75.6



#33

1,2-Dichloroethane-d4

Concen: 44.49 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002635.D

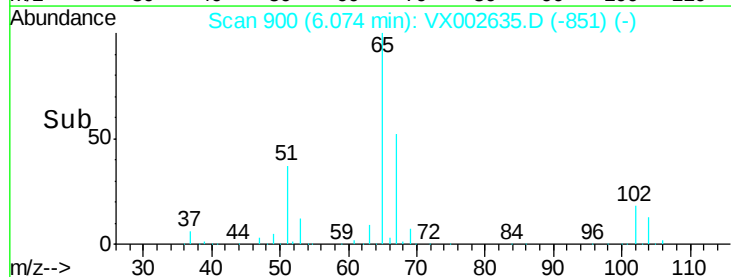
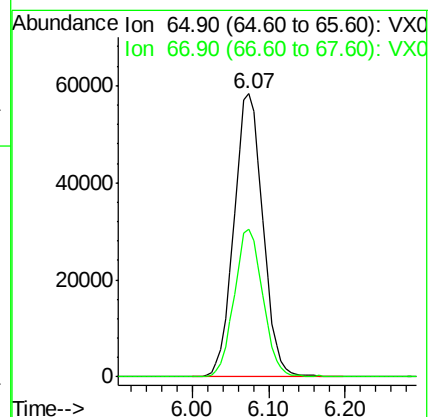
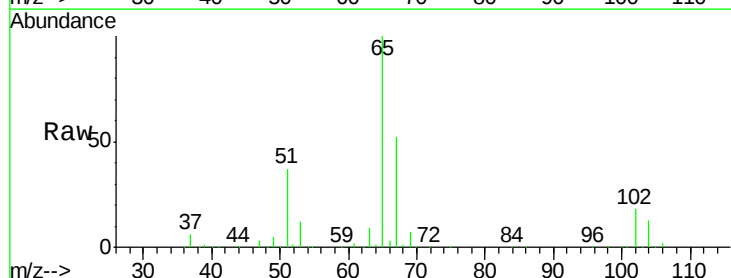
Acq: 16 Jun 2018 09:24

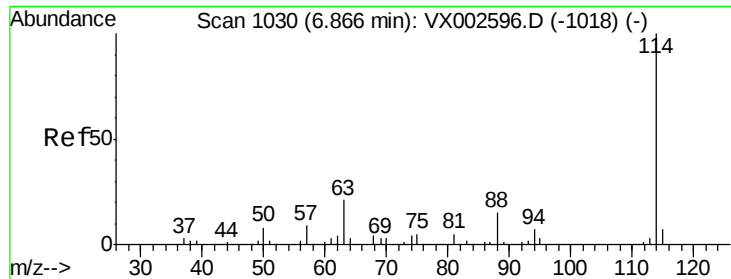
Tgt Ion: 65 Resp: 152603

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.6

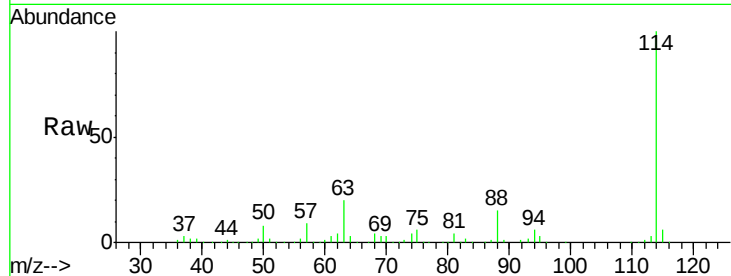




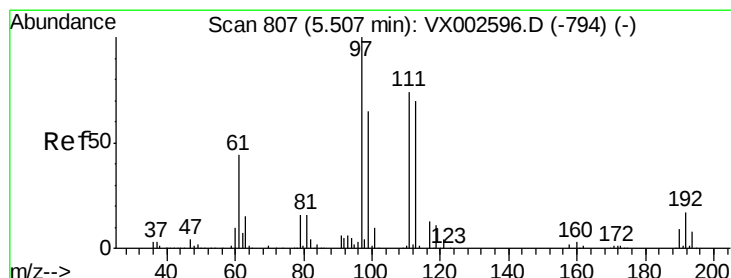
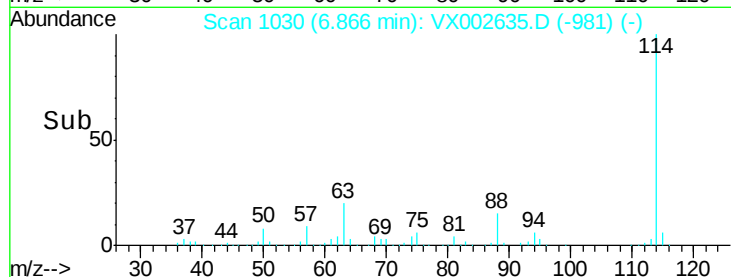
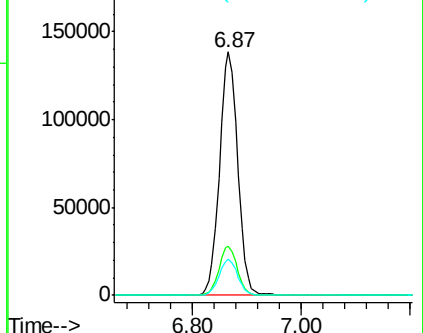
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002635.D
 Acq: 16 Jun 2018 09:24

Instrument :
 MSVOA_X
 ClientSampleId :
 W-21

Tot Ion:114 Resp: 321311
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.1 0.0 30.0

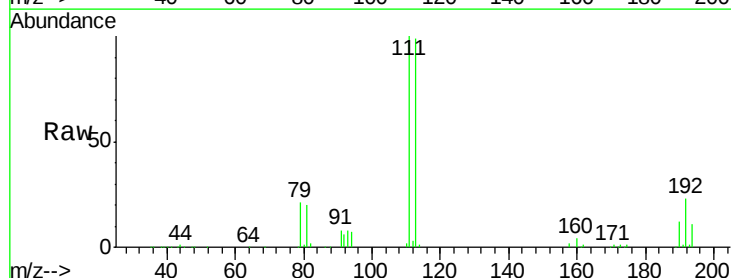


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

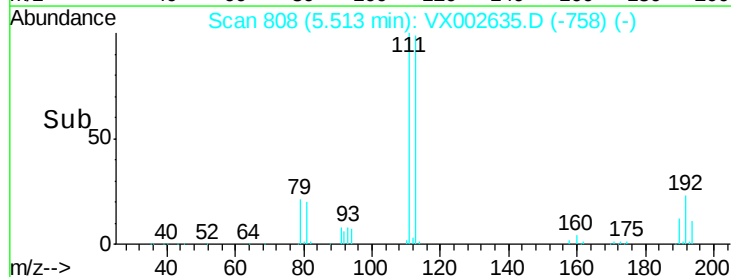
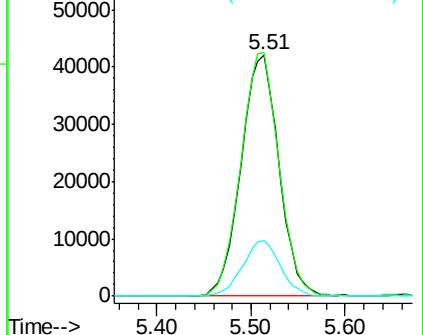


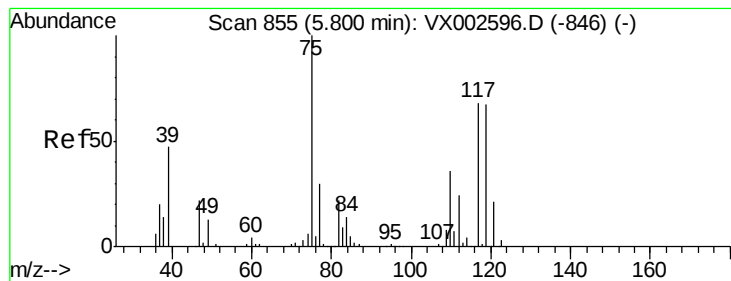
#35
 Dibromofluoromethane
 Concen: 46.14 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002635.D
 Acq: 16 Jun 2018 09:24

Tgt Ion:113 Resp: 118314
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.4 122.0
 192 22.9 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: 4.54 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampled :

W-21

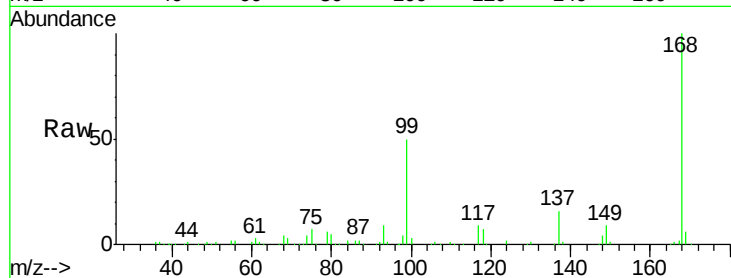
Tot Ion: 75 Resp: 15490

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

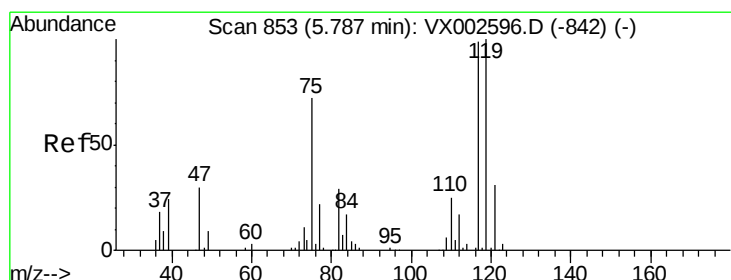
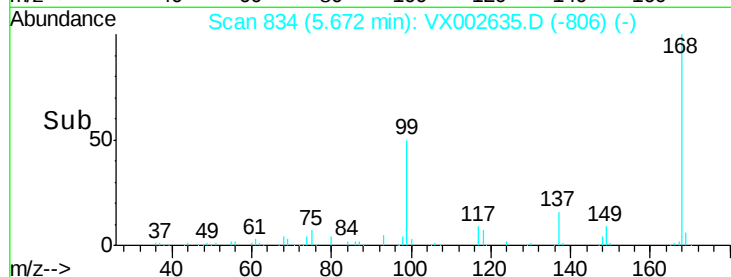
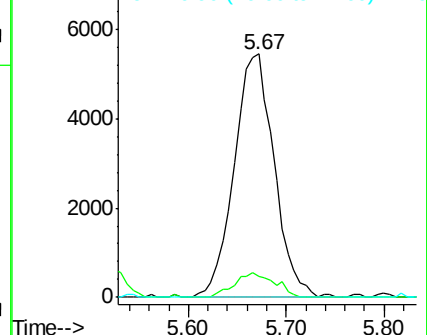
77 0.0 24.3 36.5#



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: 6.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

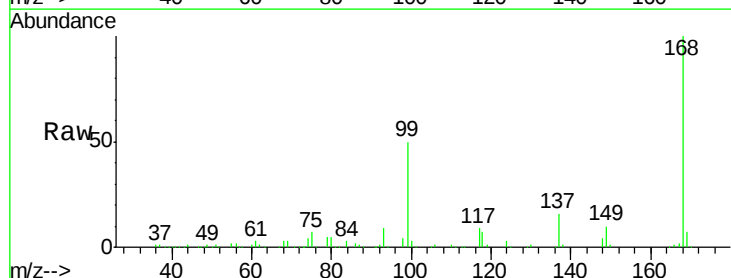
Tgt Ion: 117 Resp: 20759

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

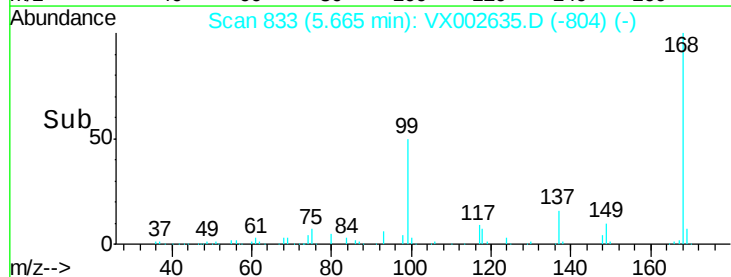
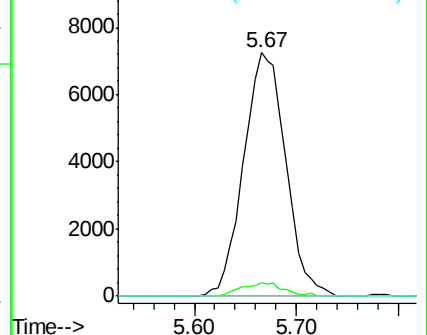
121 0.0 24.4 36.6#

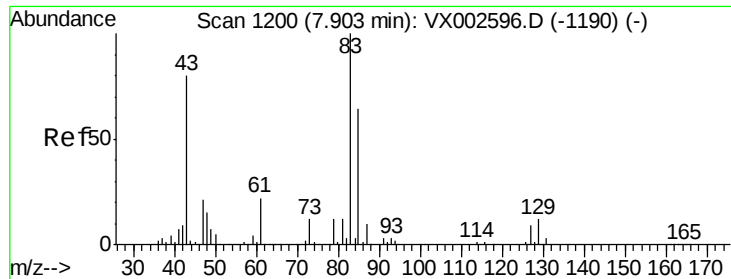


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#47

Bromodichloromethane

Concen: 0.27 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

W-21

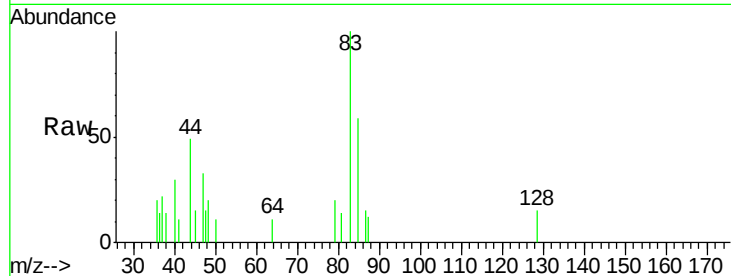
Tot Ion: 83 Resp: 857

Ion Ratio Lower Upper

83 100

85 58.8 50.3 75.5

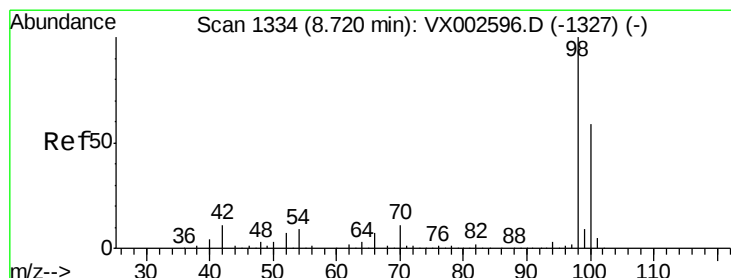
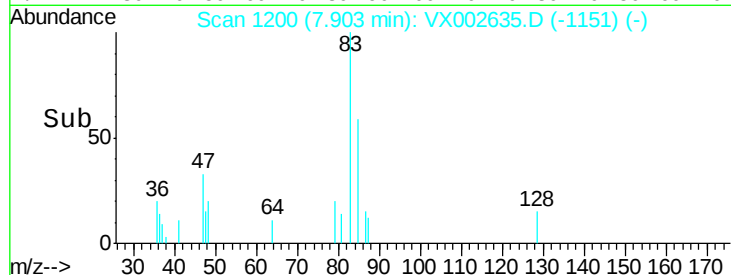
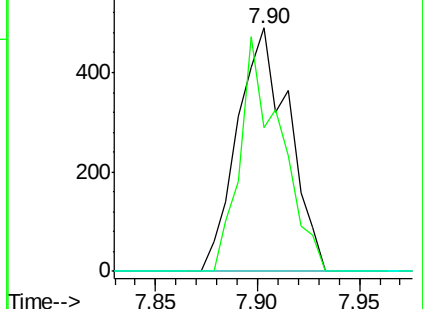
127 0.0 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 46.97 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002635.D

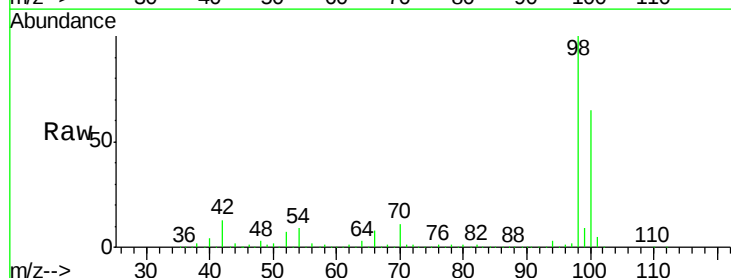
Acq: 16 Jun 2018 09:24

Tgt Ion: 98 Resp: 457309

Ion Ratio Lower Upper

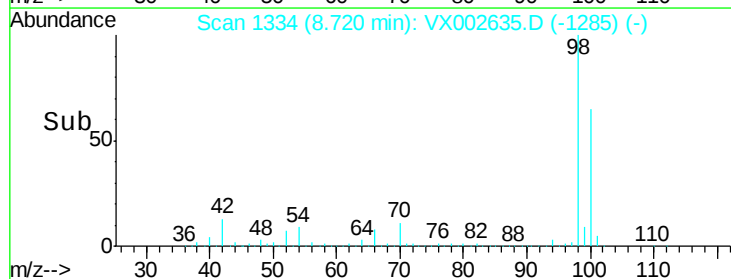
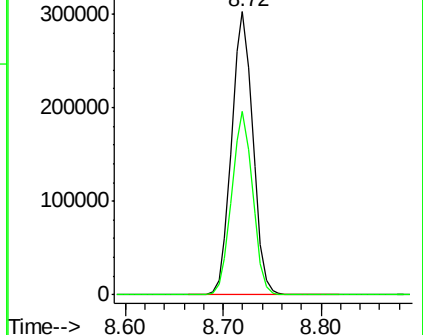
98 100

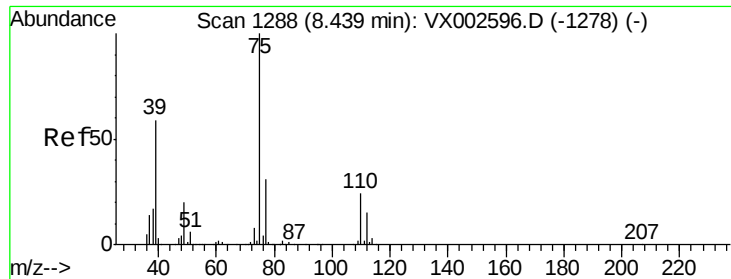
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.63 min Scan# 1319

Delta R.T. 0.19 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

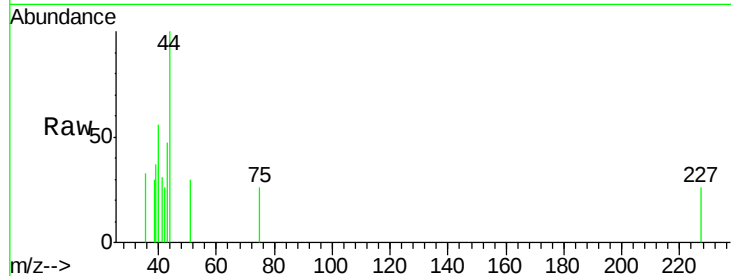
W-21

Tot Ion: 75 Resp: 21

Ion Ratio Lower Upper

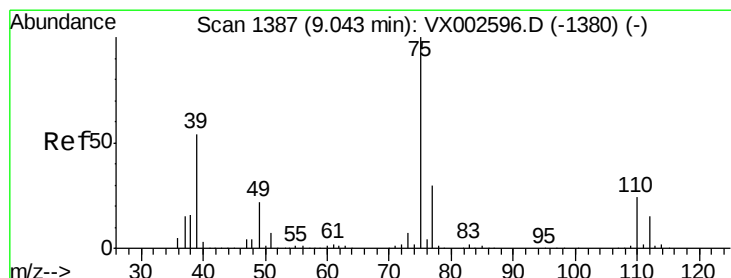
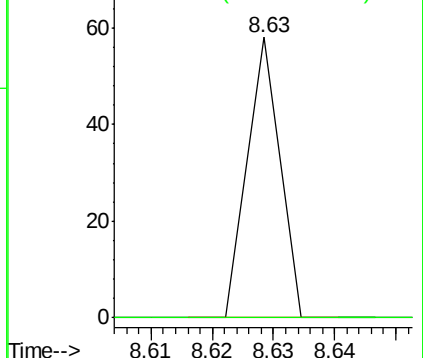
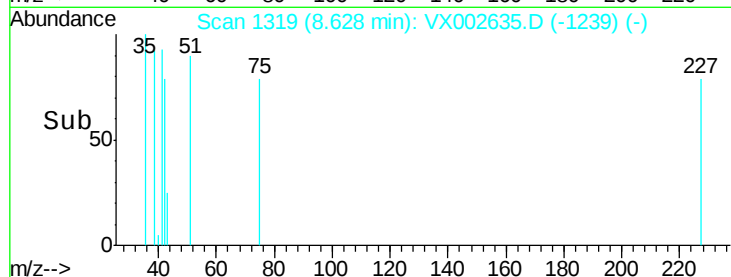
75 100

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



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 8.85 min Scan# 1356

Delta R.T. -0.19 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

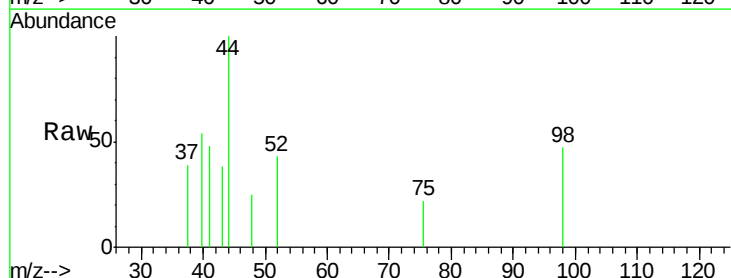
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

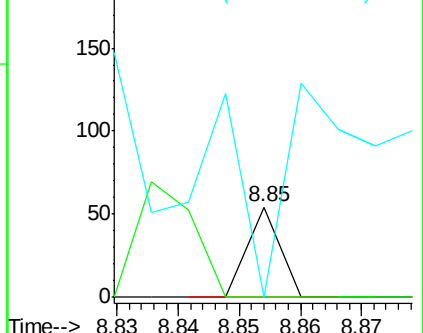
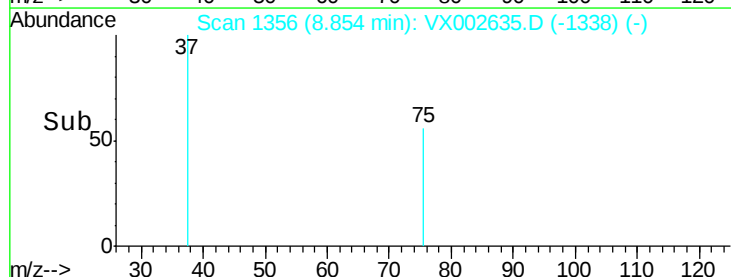
39 0.0 42.4 63.6#

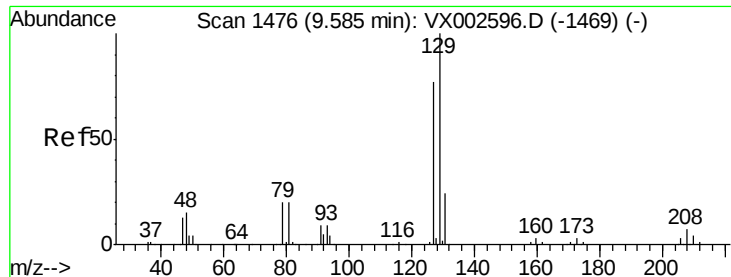


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 4.00 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

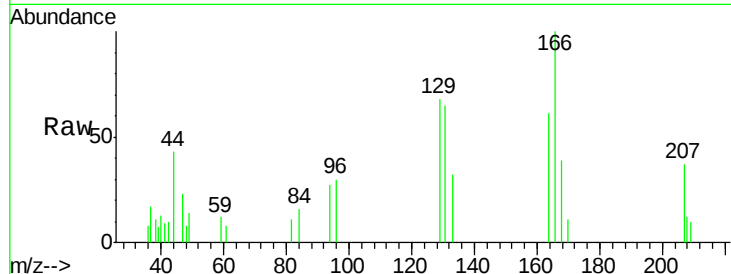
W-21

Tot Ion:129 Resp: 767

Ion Ratio Lower Upper

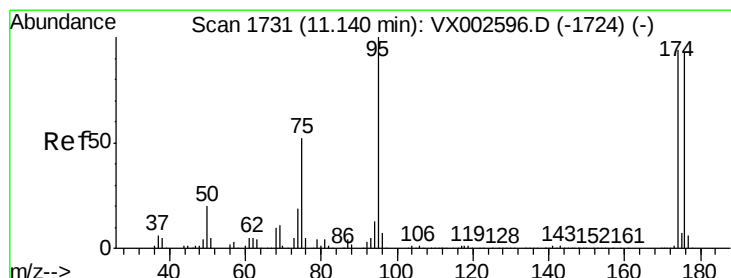
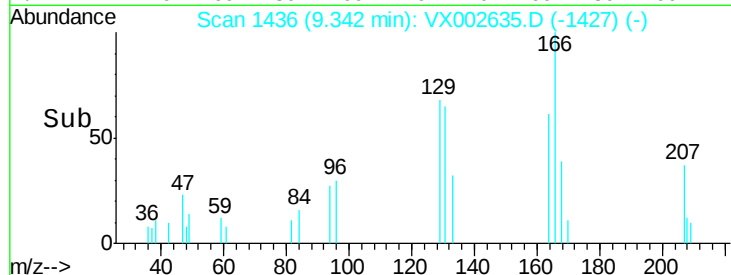
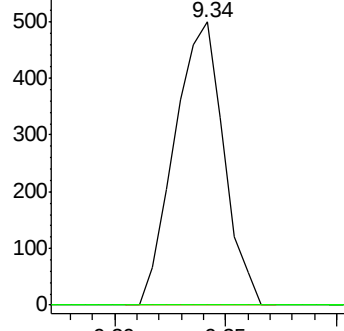
129 100

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: 42.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

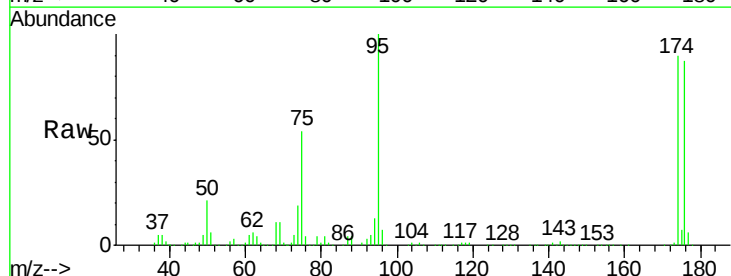
Tgt Ion: 95 Resp: 157154

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

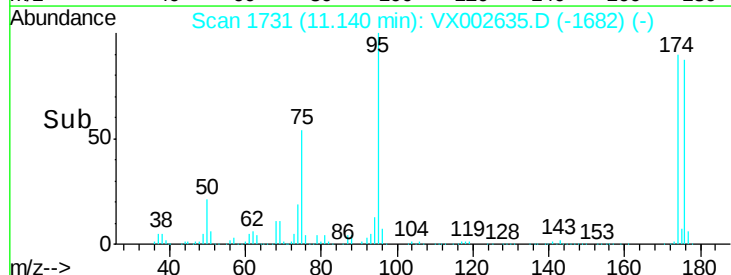
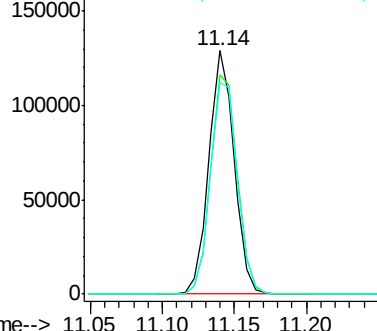
176 92.6 0.0 181.0

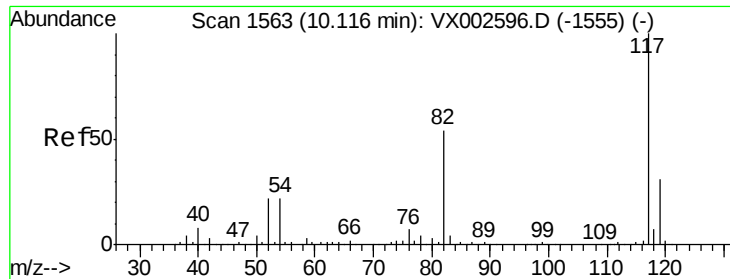


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

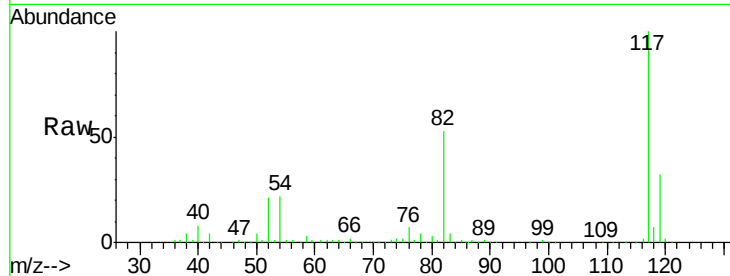




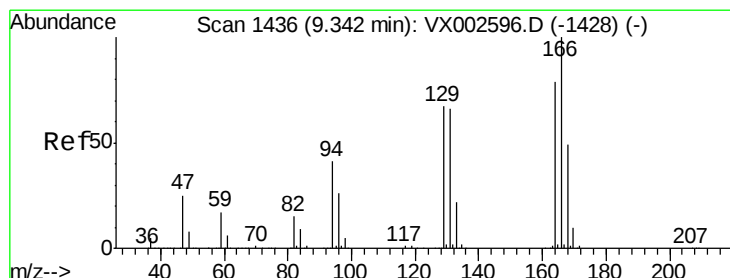
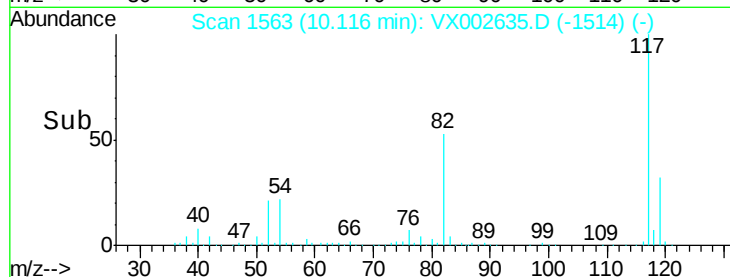
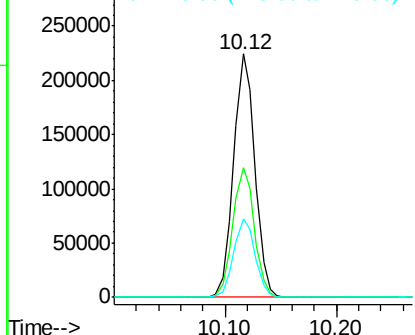
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002635.D
Acq: 16 Jun 2018 09:24

Instrument :
MSVOA_X
ClientSampleId :
W-21

Tot Ion:117 Resp: 296909
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.1 25.8 38.6

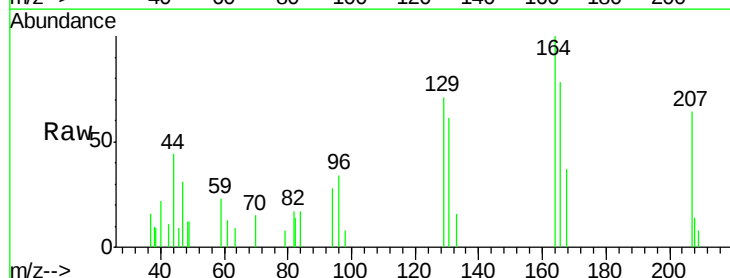


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

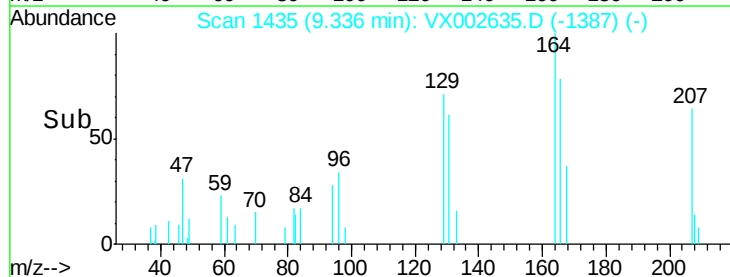
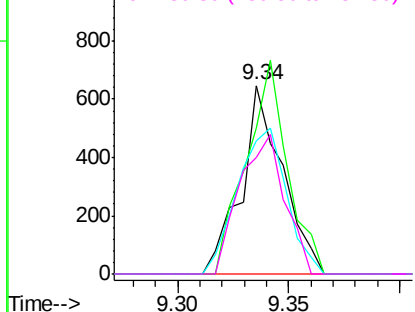


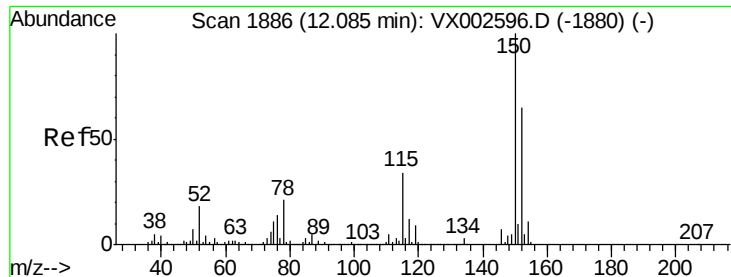
#64
Tetrachloroethene
Concen: 0.25 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002635.D
Acq: 16 Jun 2018 09:24

Tgt Ion:164 Resp: 837
Ion Ratio Lower Upper
164 100
166 77.6 102.9 154.3#
129 70.7 68.6 102.8
131 61.4 66.8 100.2#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampled :

W-21

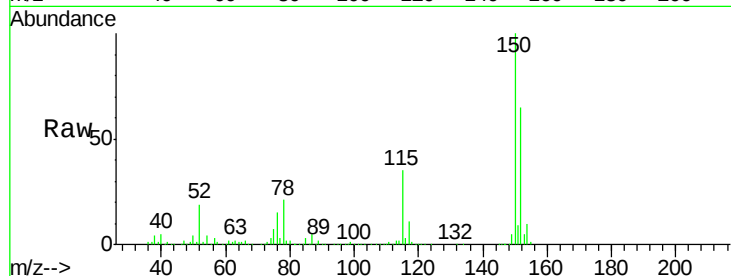
Tot Ion:152 Resp: 162353

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

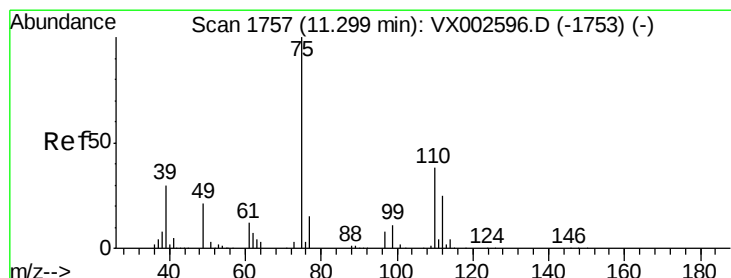
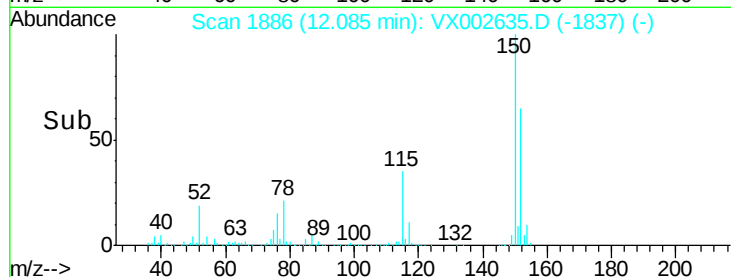
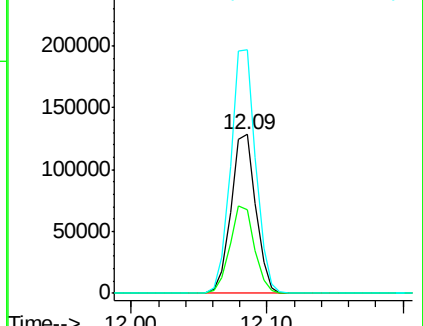
150 154.6 0.0 347.2



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: 27.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002635.D

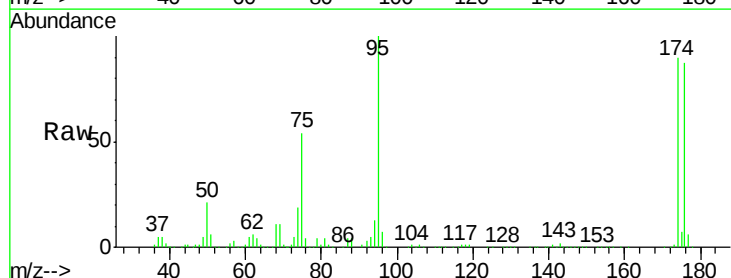
Acq: 16 Jun 2018 09:24

Tgt Ion: 75 Resp: 84339

Ion Ratio Lower Upper

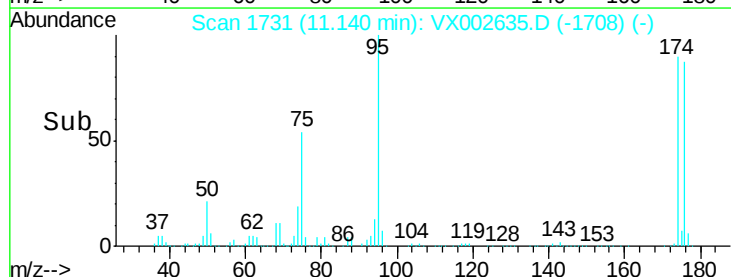
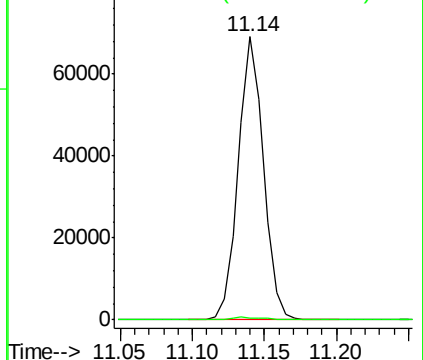
75 100

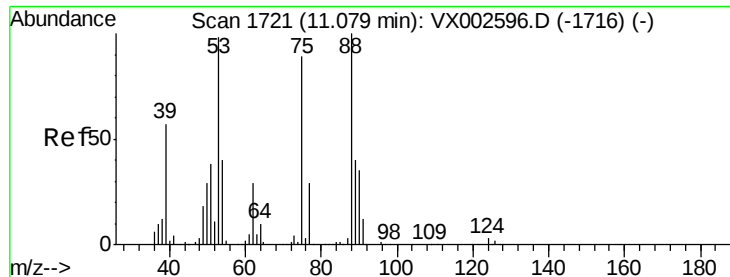
77 1.2 22.8 68.3#



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: 84.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampled :

W-21

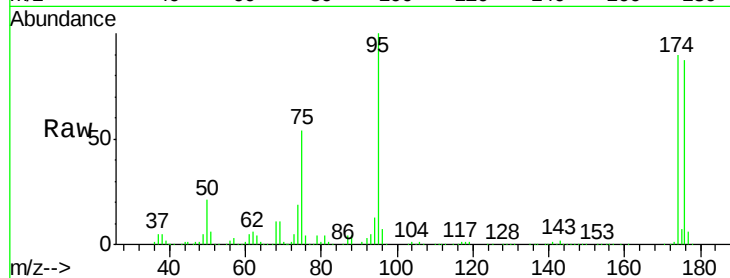
Tot Ion: 75 Resp: 84339

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

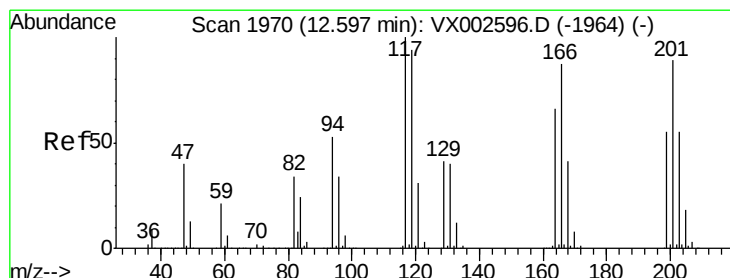
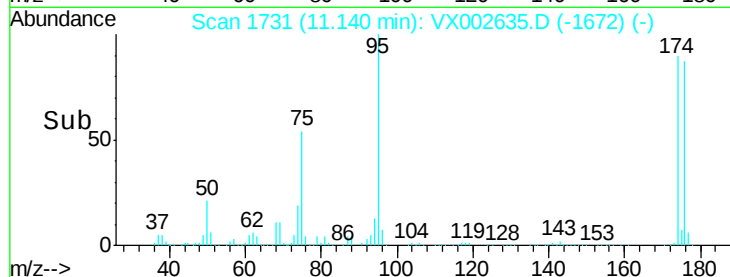
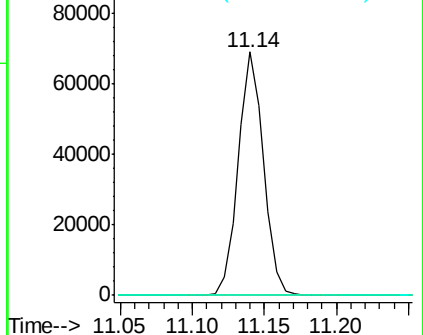
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.75 ug/l

RT: 12.70 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VX002635.D

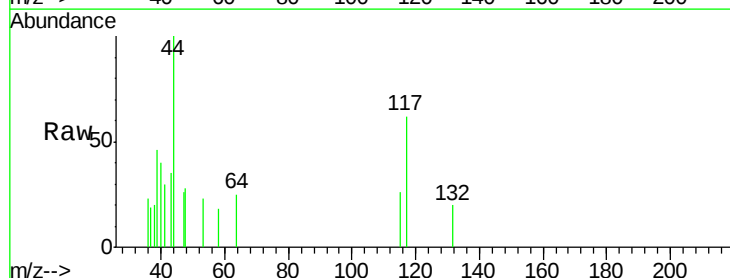
Acq: 16 Jun 2018 09:24

Tgt Ion: 117 Resp: 211

Ion Ratio Lower Upper

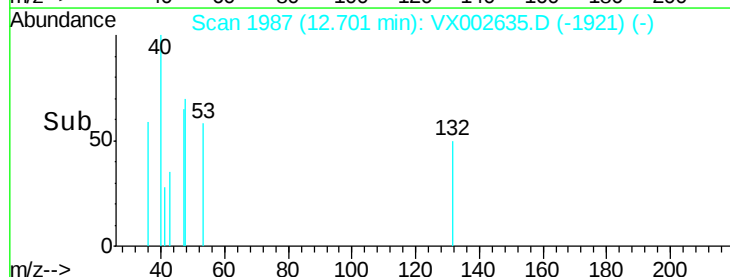
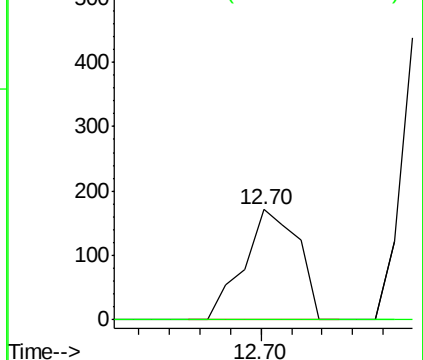
117 100

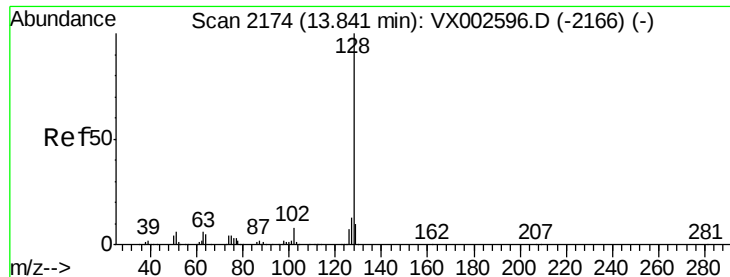
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 0.35 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002635.D

Acq: 16 Jun 2018 09:24

Instrument :

MSVOA_X

ClientSampleId :

W-21

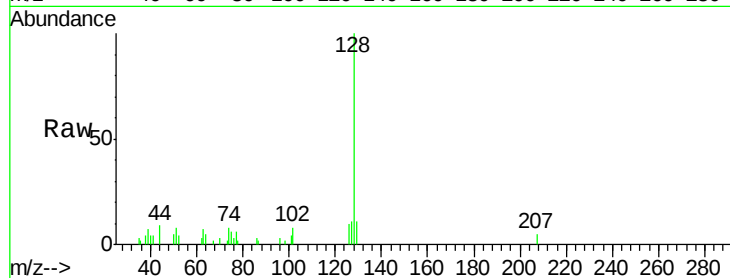
Tot Ion:128 Resp: 3774

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 13.0 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

