

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009018.D
 Acq On : 17 Apr 2019 16:34
 Operator : JC/SP
 Sample : K2448-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037TW143-190415

Quant Time: Apr 18 01:38:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	423237	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	367054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153276	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	171589	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
35) Dibromofluoromethane	5.50	113	126899	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	8.71	98	523022	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	11.13	95	174230	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	

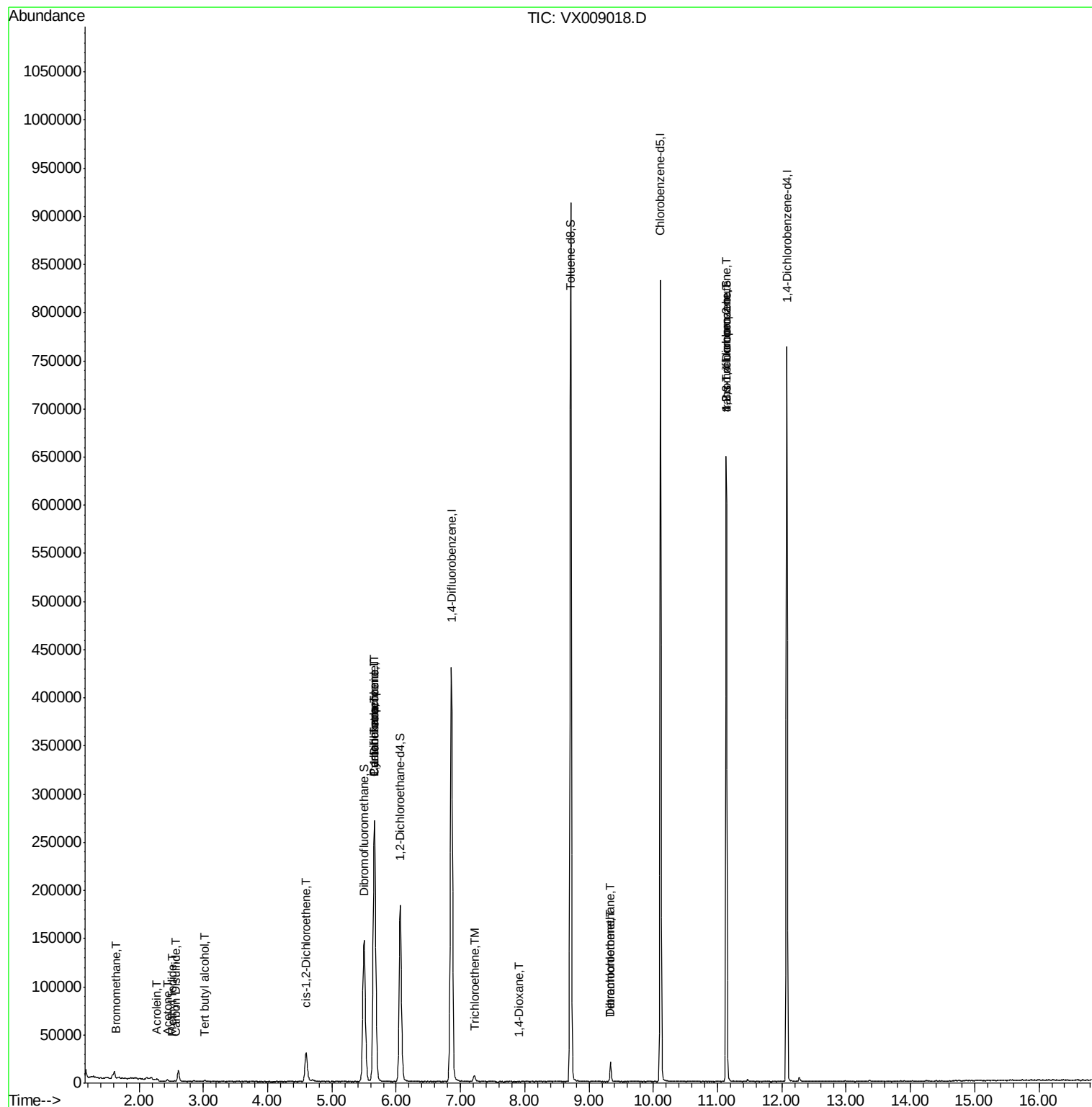
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	279	3.961	ug/l	92
10) Methyl Iodide	2.51	142	60	4.433	ug/l #	42
11) Tert butyl alcohol	3.02	59	1227	1.486	ug/l #	81
13) Acrolein	2.28	56	410	0.575	ug/l #	80
16) Acetone	2.44	43	1690	0.876	ug/l #	85
17) Carbon Disulfide	2.57	76	652	1.329	ug/l #	70
27) cis-1,2-Dichloroethene	4.60	96	19335	5.639	ug/l	88
28) Bromochloromethane	5.02	49	78	Below Cal	#	21
31) Cyclohexane	5.67	56	6000	1.013	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20929	4.781	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24582	6.624	ug/l #	18
44) Trichloroethene	7.21	130	2435	0.770	ug/l	96
49) 1,4-Dioxane	7.90	88	21	0.250	ug/l #	19
60) Dibromochloromethane	9.34	129	3365	1.145	ug/l #	10
64) Tetrachloroethene	9.34	164	3878	1.391	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	88535	23.655	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	88535	60.730	ug/l #	11

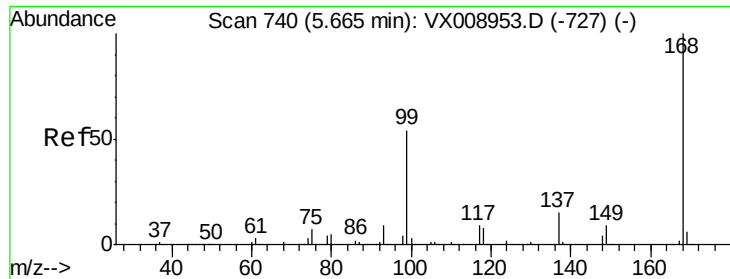
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 17 06:47:58 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

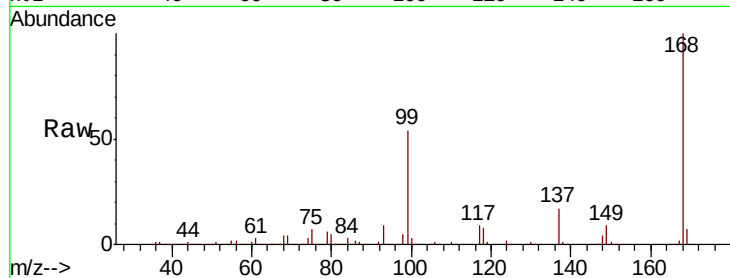
SS037TW143-190415

Tot Ion:168 Resp: 264003

Ion Ratio Lower Upper

168 100

99 54.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

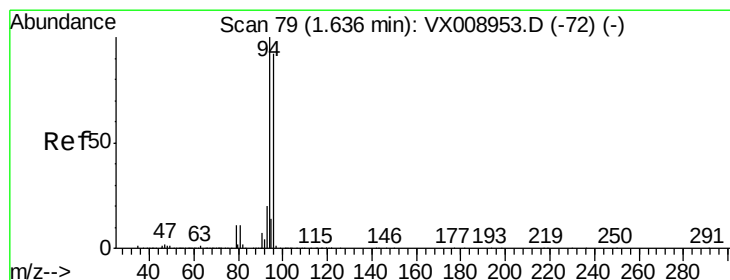
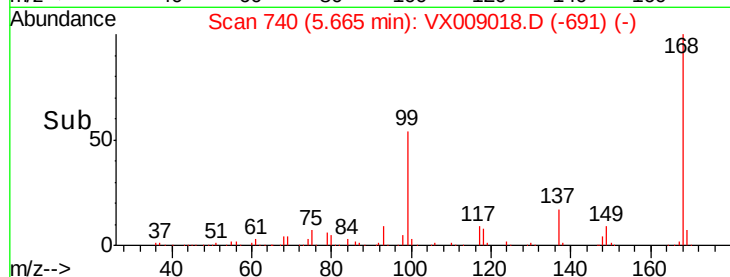
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.961 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009018.D

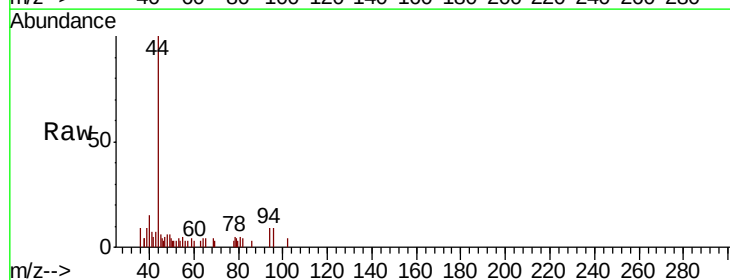
Acq: 17 Apr 2019 16:34

Tgt Ion: 94 Resp: 279

Ion Ratio Lower Upper

94 100

96 100.0 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

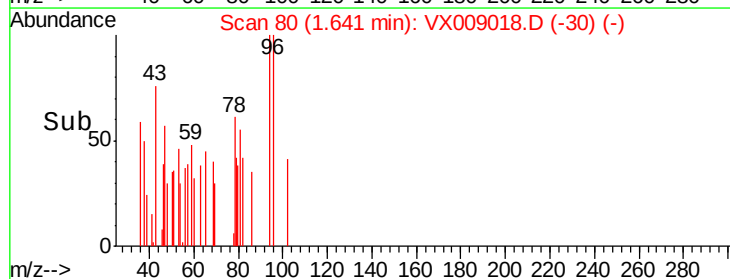
150

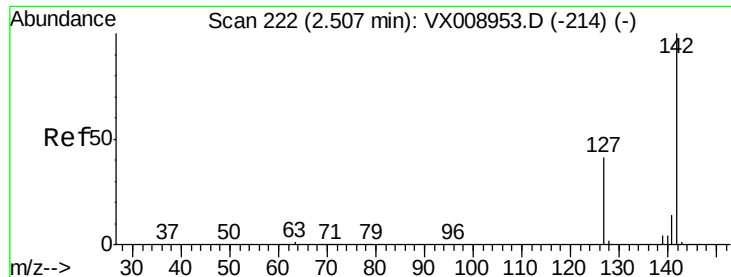
100

50

0

Time--> 1.60 1.65 1.70

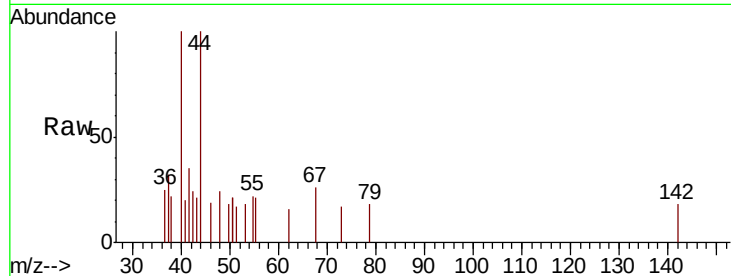




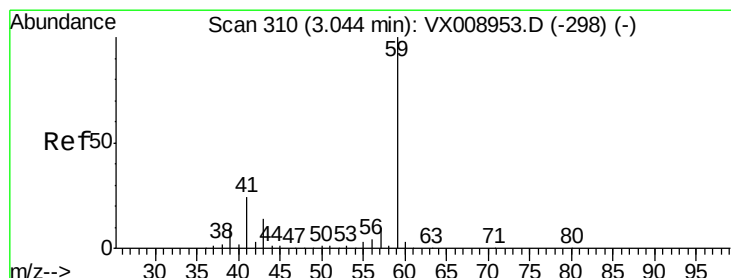
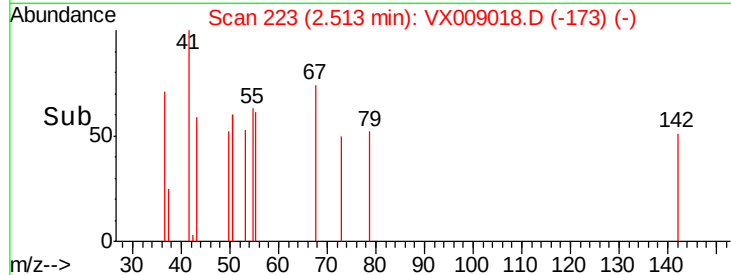
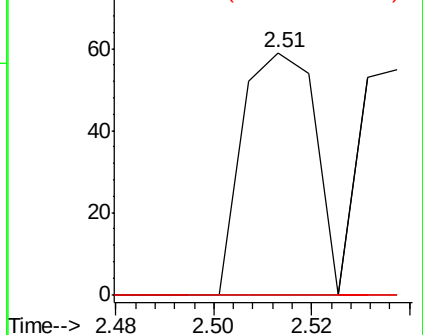
#10
Methvl Iodide
Concen: 4.433 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009018.D
Acq: 17 Apr 2019 16:34

Instrument :
MSVOA_X
ClientSampleId :
SS037TW143-190415

Tot Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#

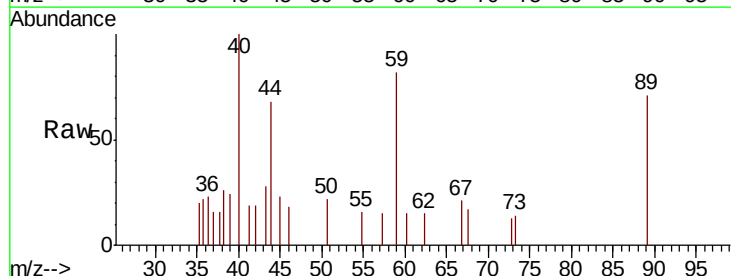


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

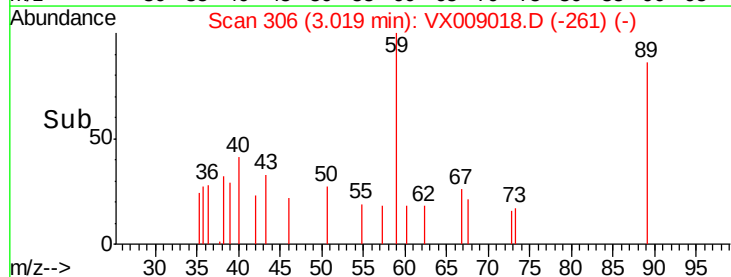
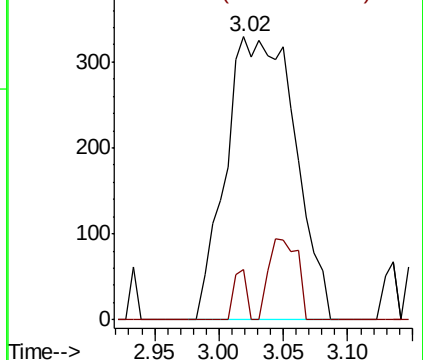


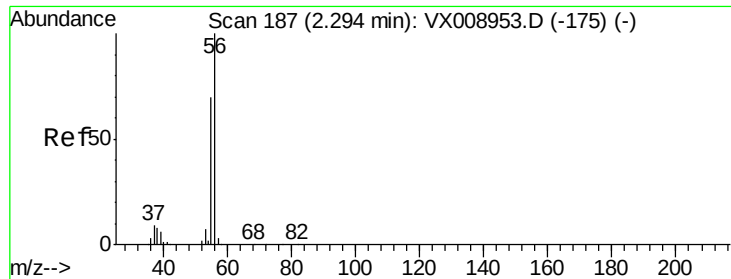
#11
Tert butyl alcohol
Concen: 1.486 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009018.D
Acq: 17 Apr 2019 16:34

Tgt Ion: 59 Resp: 1227
Ion Ratio Lower Upper
59 100
57 3.3 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.575 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

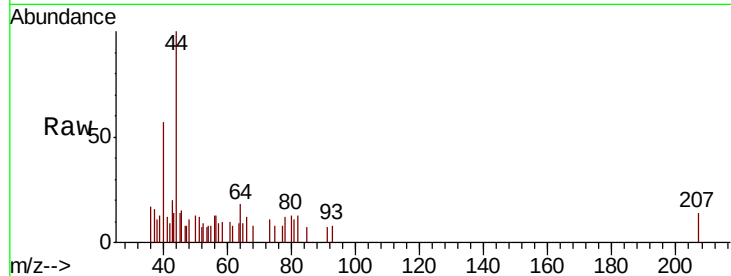
SS037TW143-190415

Tot Ion: 56 Resp: 410

Ion Ratio Lower Upper

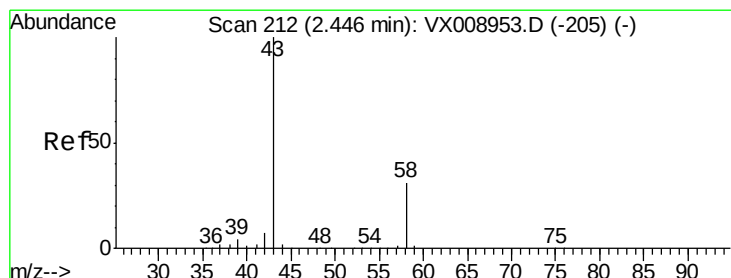
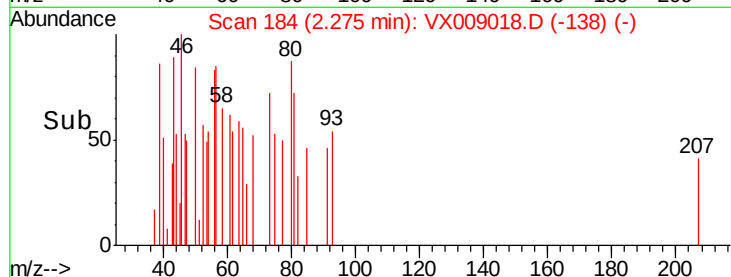
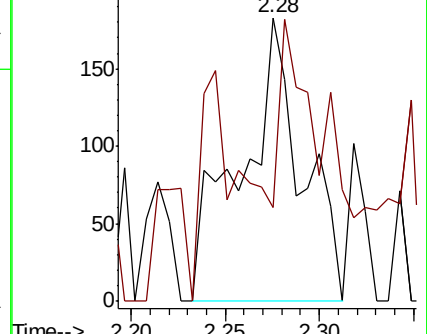
56 100

55 87.1 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.876 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009018.D

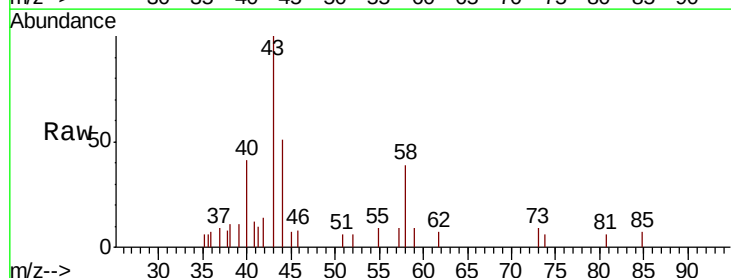
Acq: 17 Apr 2019 16:34

Tgt Ion: 43 Resp: 1690

Ion Ratio Lower Upper

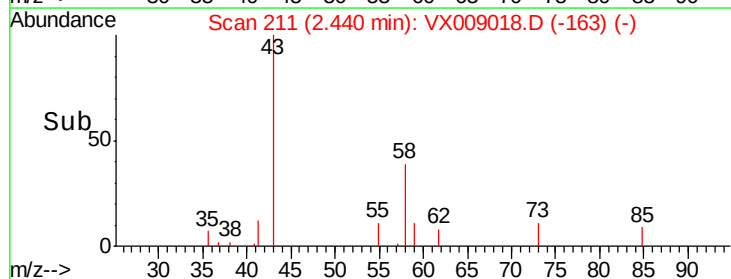
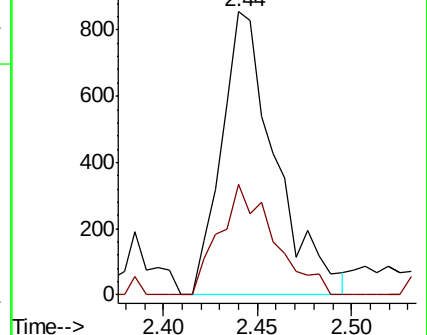
43 100

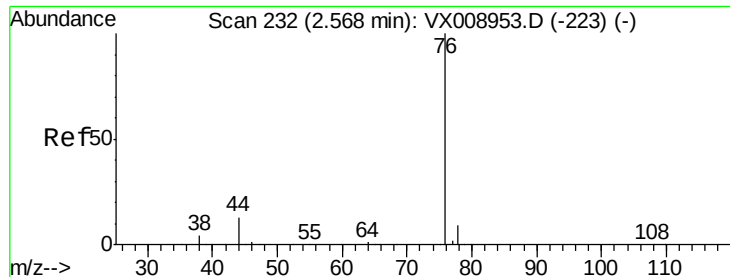
58 39.1 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.329 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

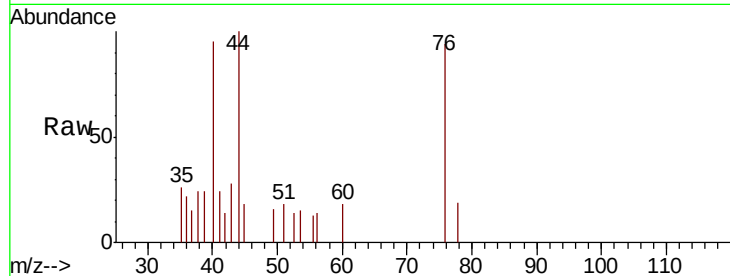
SS037TW143-190415

Tot Ion: 76 Resp: 652

Ion Ratio Lower Upper

76 100

78 19.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

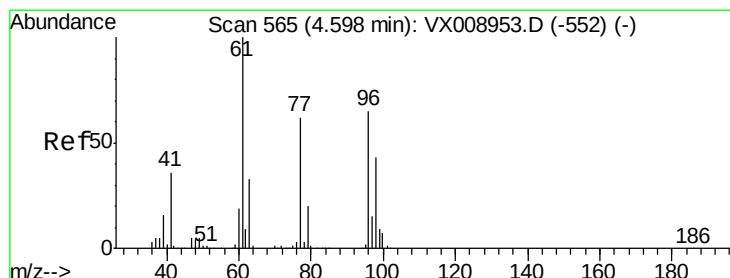
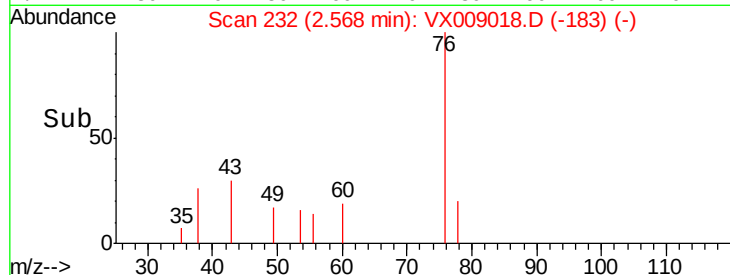
300

200

100

0

Time--> 2.50 2.55 2.60



#27

cis-1,2-Dichloroethene

Concen: 5.639 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

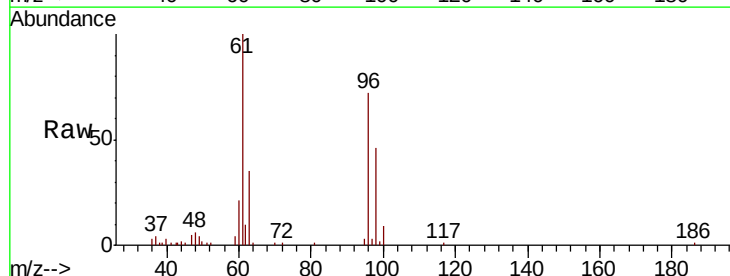
Tgt Ion: 96 Resp: 19335

Ion Ratio Lower Upper

96 100

61 139.4 0.0 322.0

98 63.8 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

12000

10000

8000

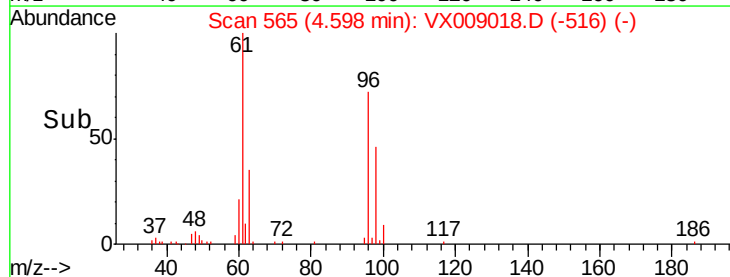
6000

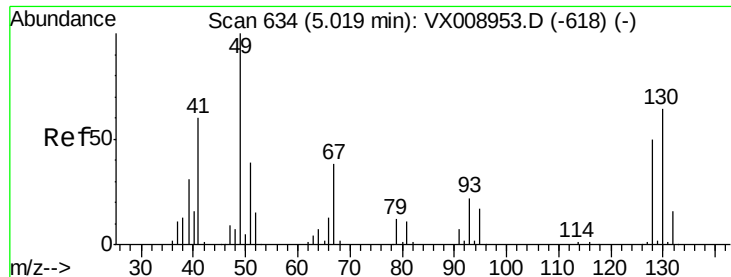
4000

2000

0

Time--> 4.50 4.60 4.70





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

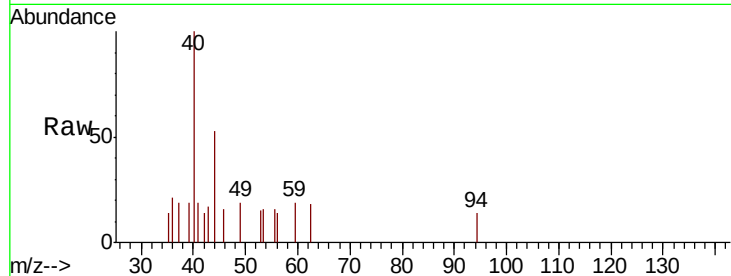
Tot Ion: 49 Resp: 78

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

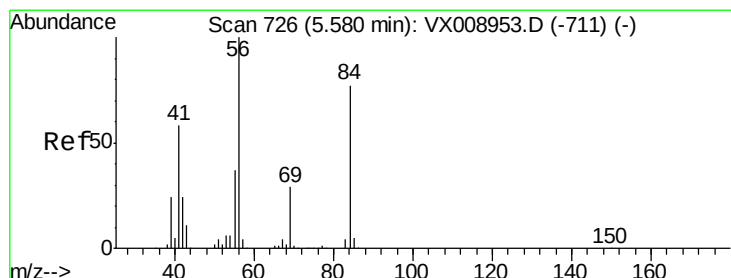
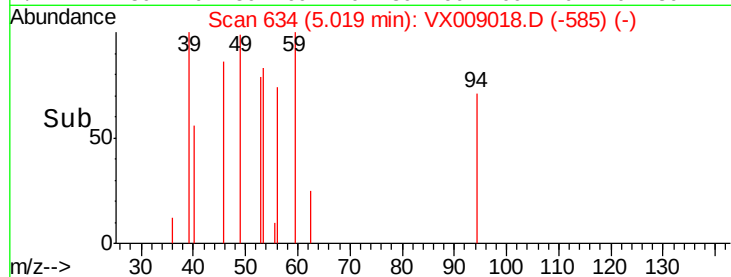
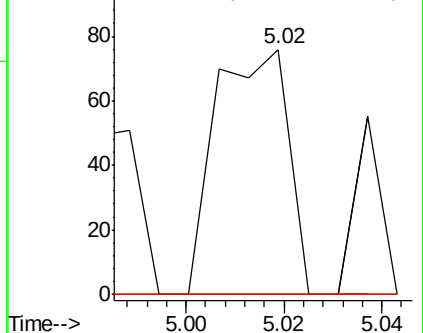
130 0.0 50.4 75.6#



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



#31

Cyclohexane

Concen: 1.013 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

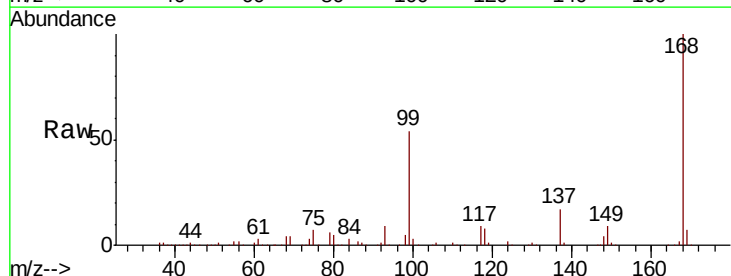
Tgt Ion: 56 Resp: 6000

Ion Ratio Lower Upper

56 100

69 161.7 23.3 34.9#

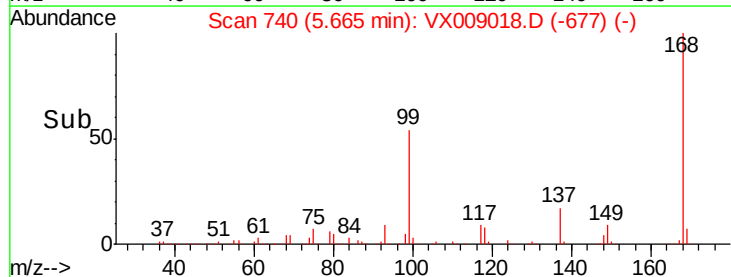
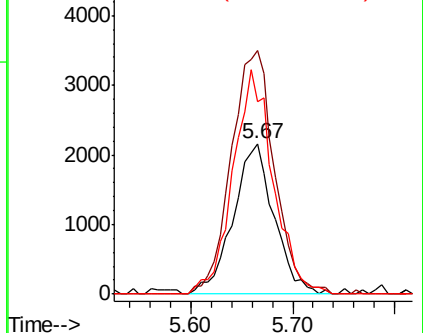
84 127.9 61.7 92.5#

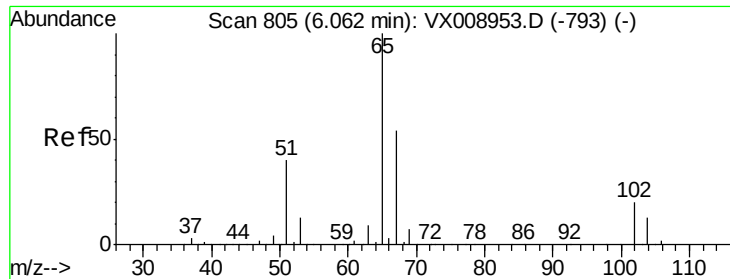


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

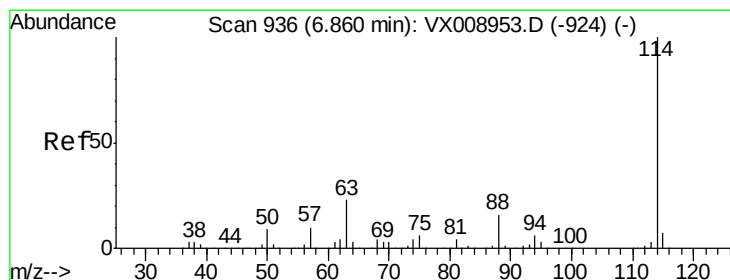
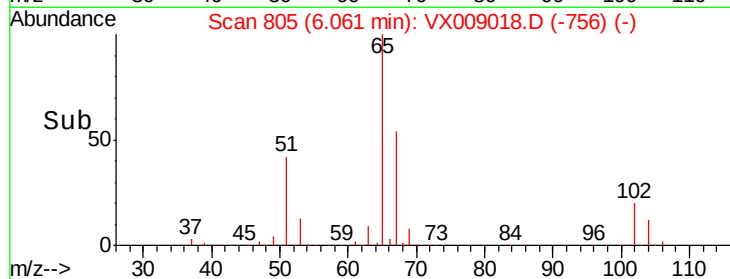
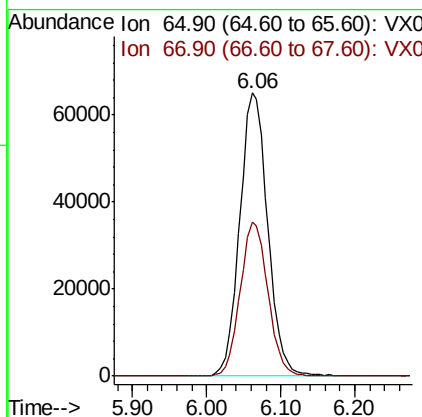
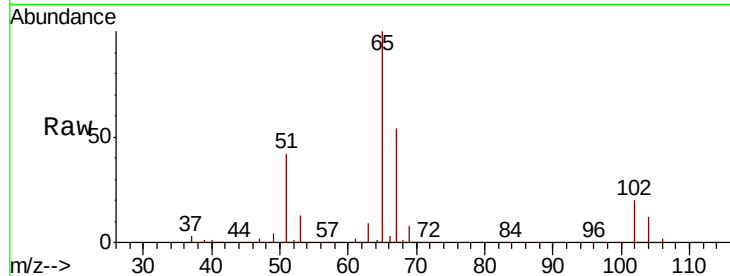




#33
 1,2-Dichloroethane-d4
 Concen: 46.119 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009018.D
 Acq: 17 Apr 2019 16:34

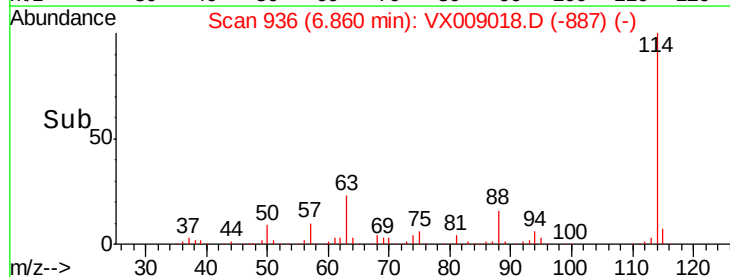
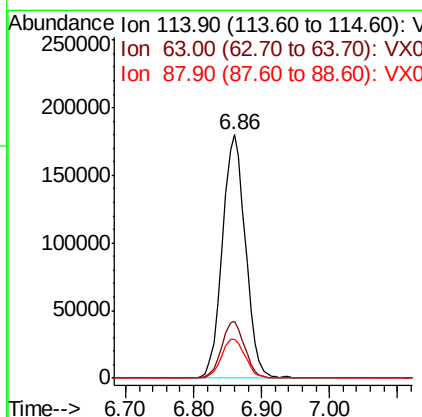
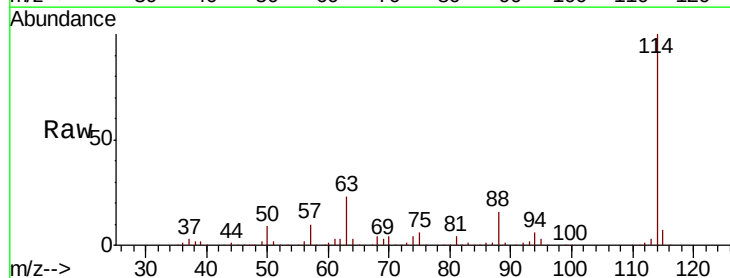
Instrument :
 MSVOA_X
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 SS037TW143-190415

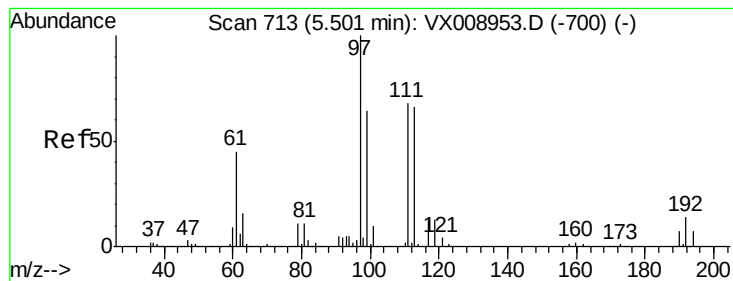
Tot Ion: 65 Resp: 171589
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009018.D
 Acq: 17 Apr 2019 16:34

Tgt Ion: 114 Resp: 423237
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.0
 88 16.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.719 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

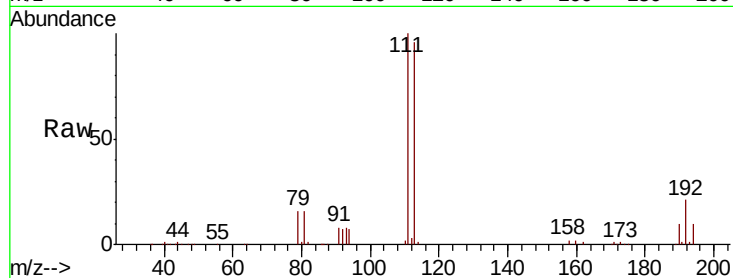
Tot Ion:113 Resp: 126899

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

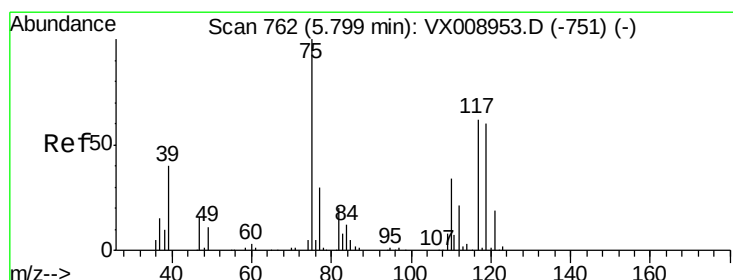
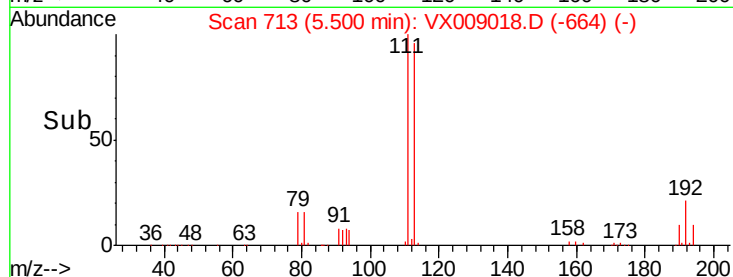
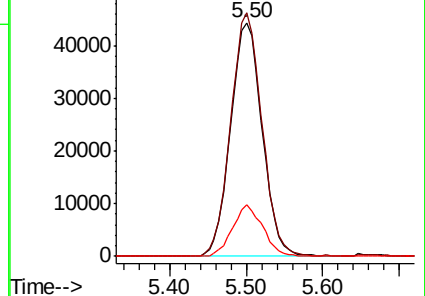
192 21.0 17.4 26.0



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: 4.781 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

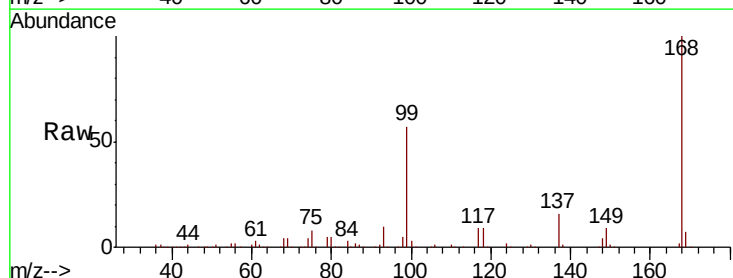
Tgt Ion: 75 Resp: 20929

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.7#

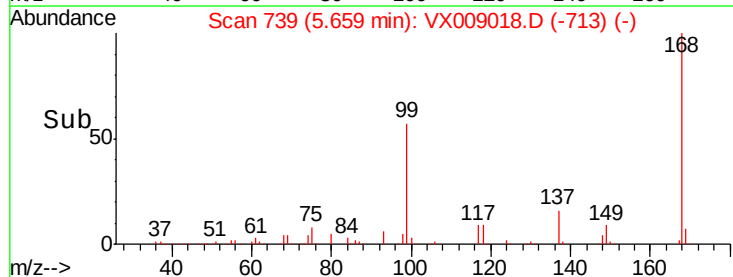
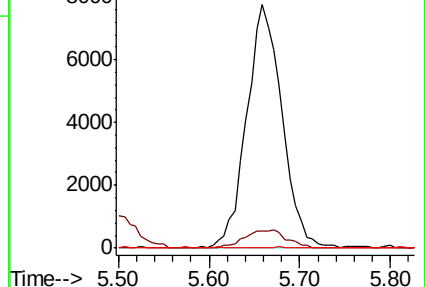
77 0.1 25.0 37.4#

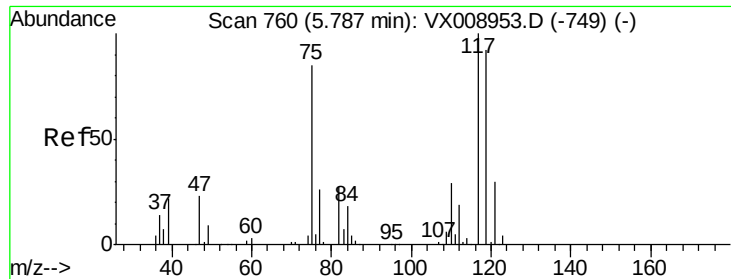


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.624 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

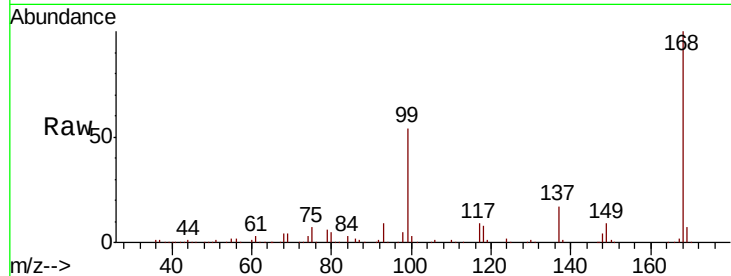
Tot Ion:117 Resp: 24582

Ion Ratio Lower Upper

117 100

119 5.6 73.8 110.8#

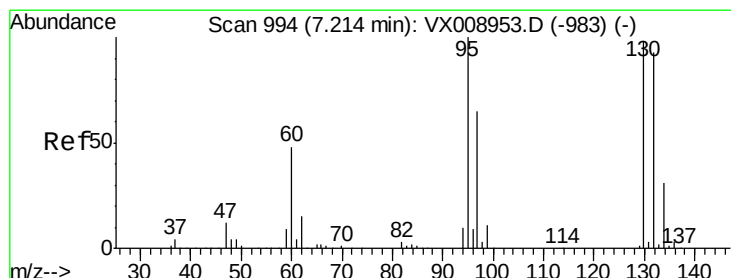
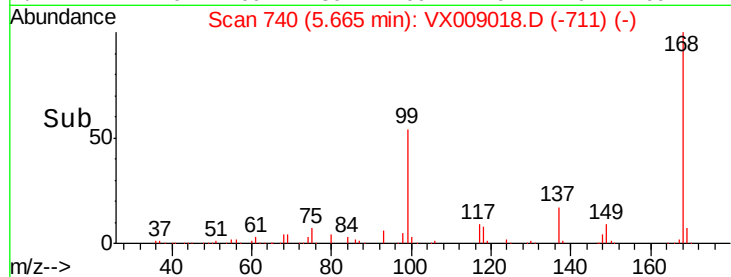
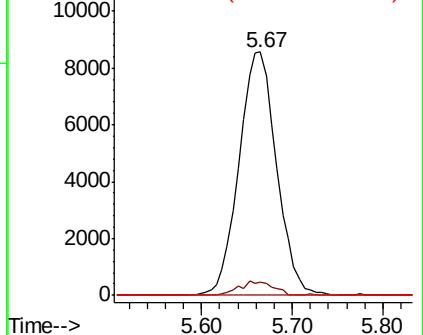
121 0.0 23.6 35.4#



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: 0.770 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009018.D

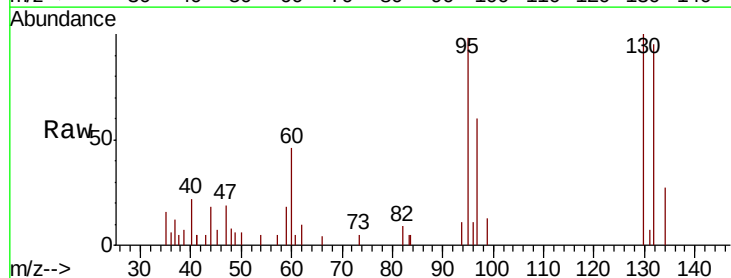
Acq: 17 Apr 2019 16:34

Tgt Ion:130 Resp: 2435

Ion Ratio Lower Upper

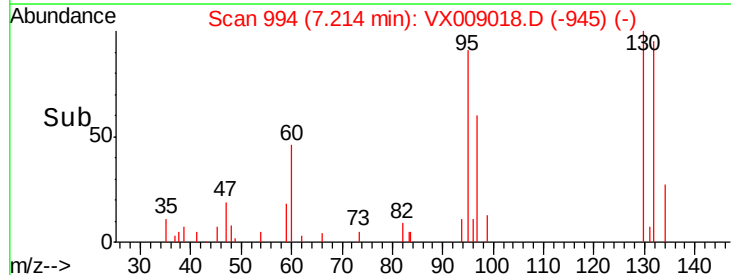
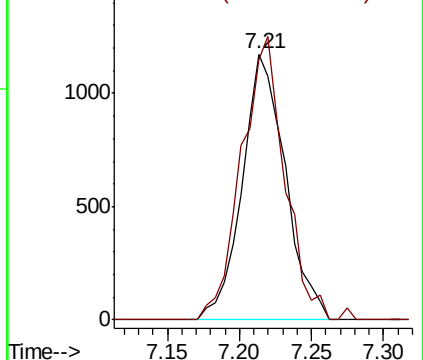
130 100

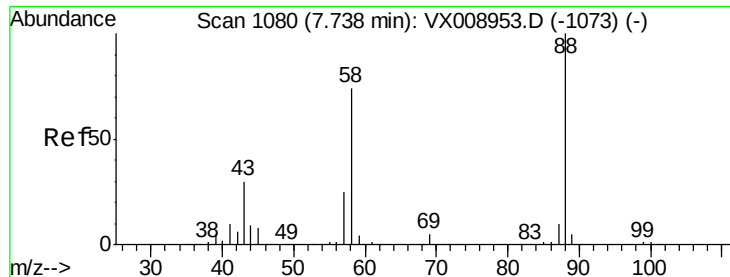
95 98.0 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.250 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.16 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

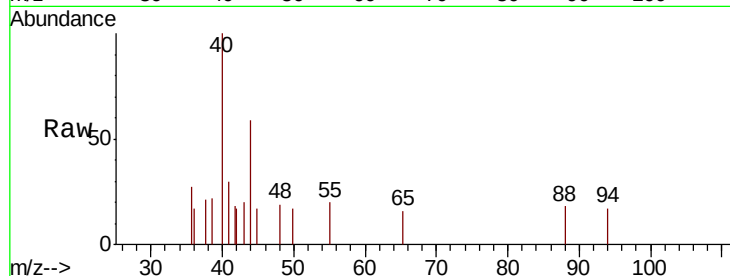
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

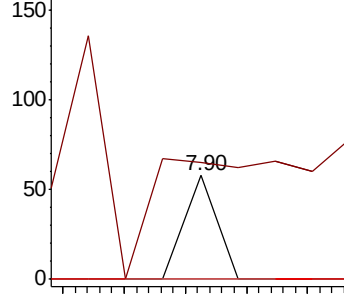
58 0.0 62.6 93.8#



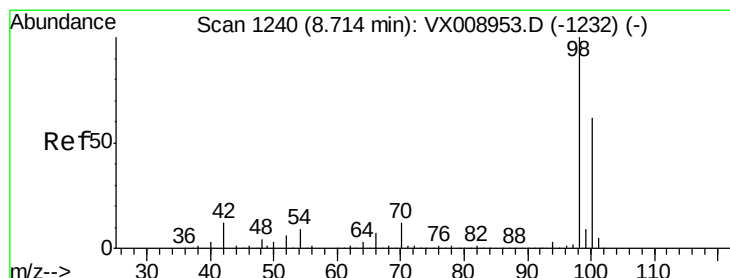
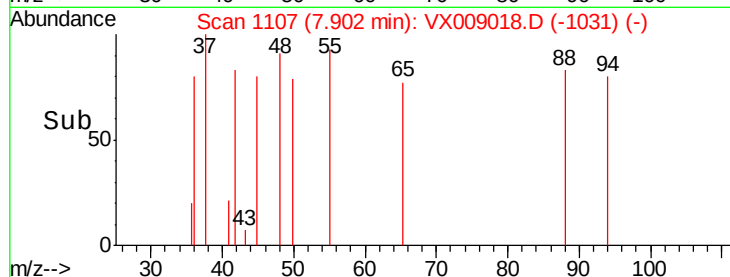
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.283 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009018.D

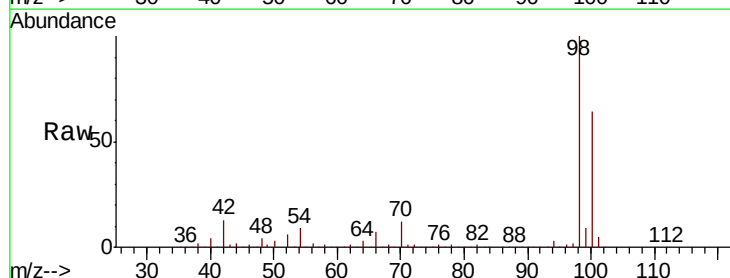
Acq: 17 Apr 2019 16:34

Tgt Ion: 98 Resp: 523022

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

400000

300000

200000

100000

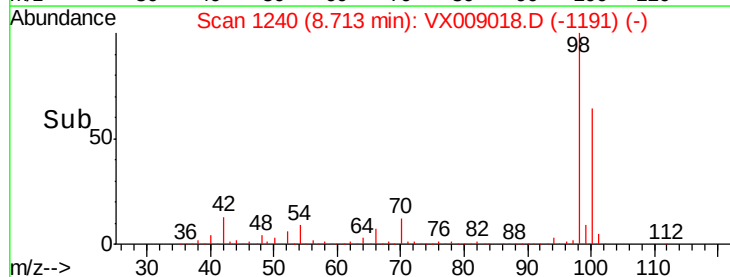
0

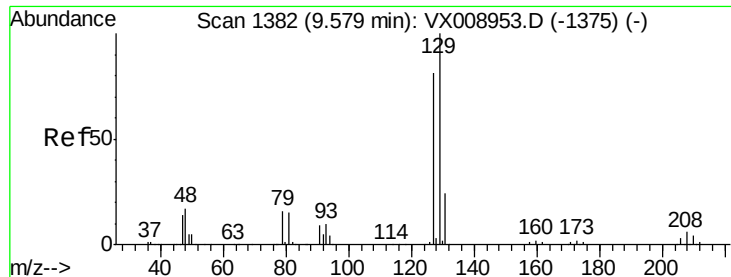
8.60

8.70

8.80

Time-->





#60

Dibromochloromethane

Concen: 1.145 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

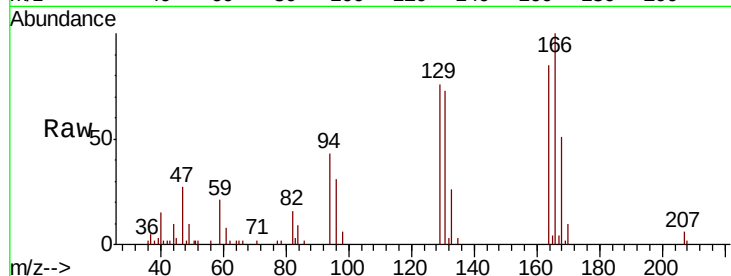
SS037TW143-190415

Tot Ion:129 Resp: 3365

Ion Ratio Lower Upper

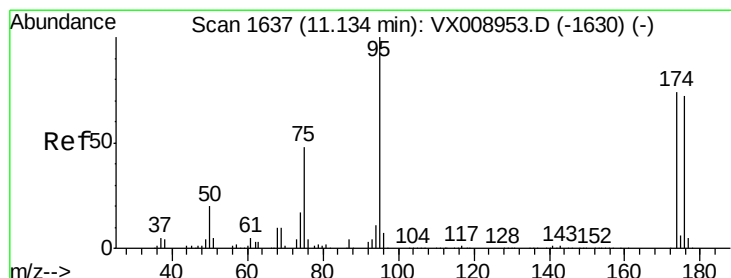
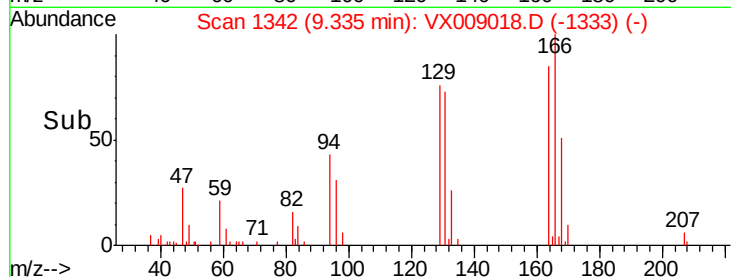
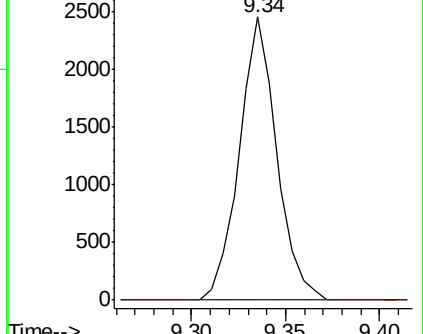
129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.564 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

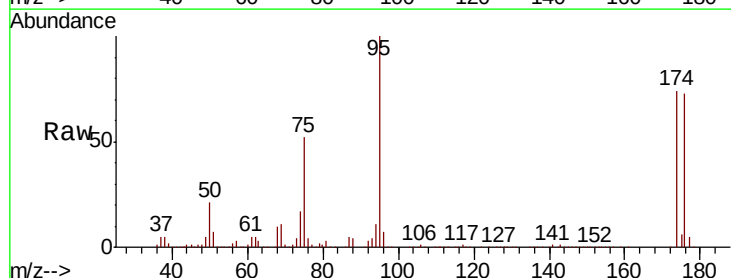
Tgt Ion: 95 Resp: 174230

Ion Ratio Lower Upper

95 100

174 78.1 0.0 159.6

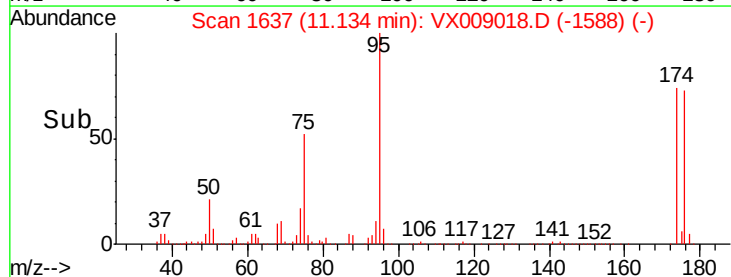
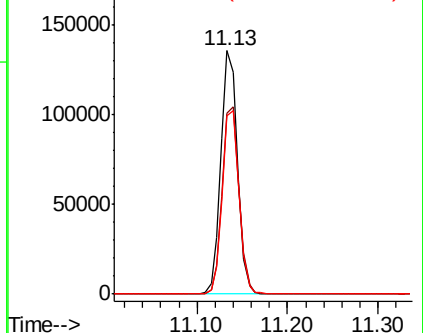
176 76.0 0.0 154.8

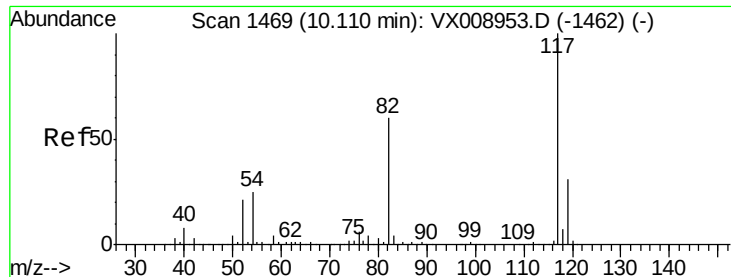


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

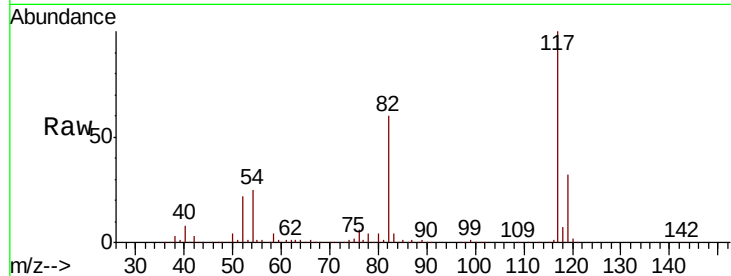
Tot Ion:117 Resp: 367054

Ion Ratio Lower Upper

117 100

82 59.7 48.2 72.4

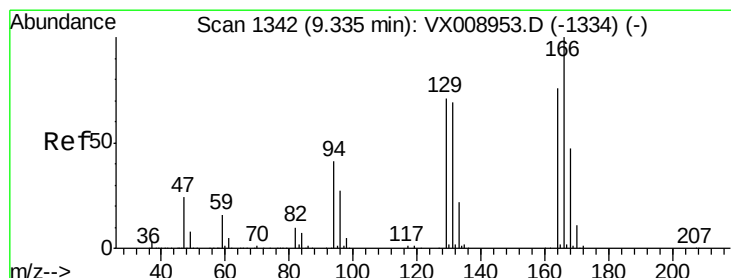
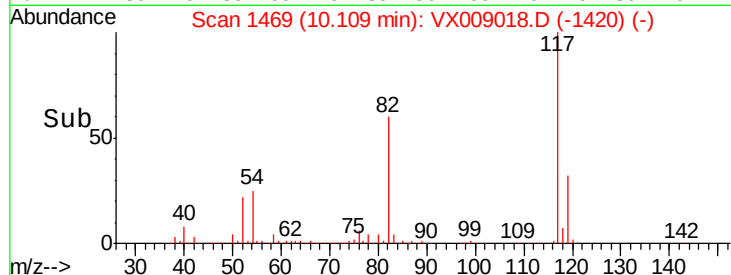
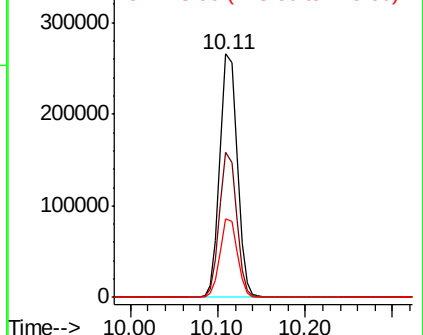
119 32.0 25.0 37.6



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: 1.391 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Tgt Ion:164 Resp: 3878

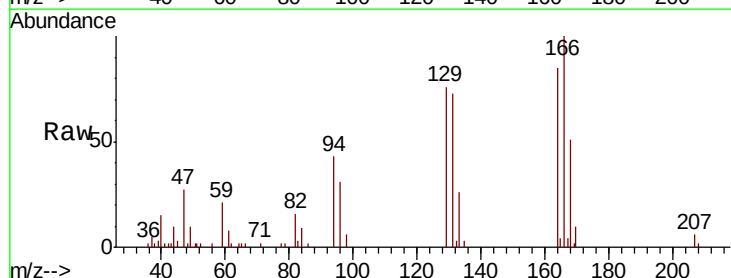
Ion Ratio Lower Upper

164 100

166 118.1 105.0 157.4

129 89.4 74.2 111.4

131 86.3 72.2 108.2

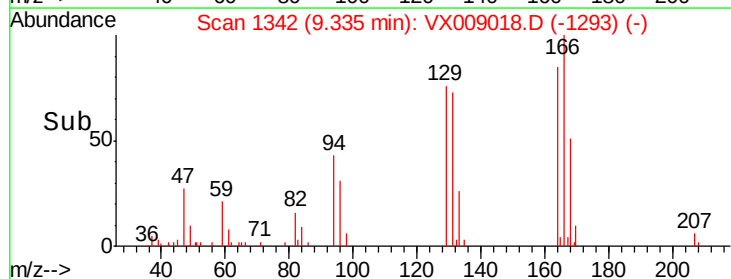
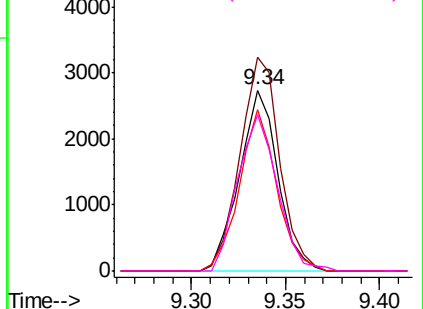


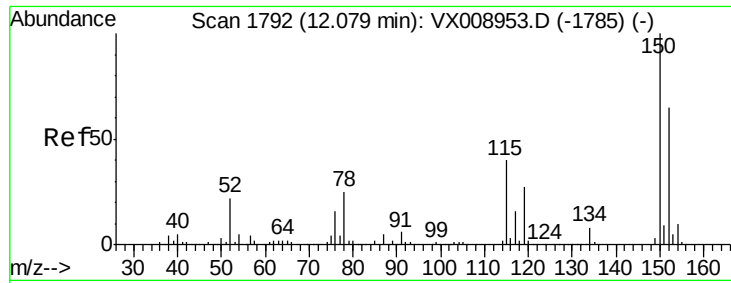
Abundance Ion 163.80 (163.50 to 164.50): V

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



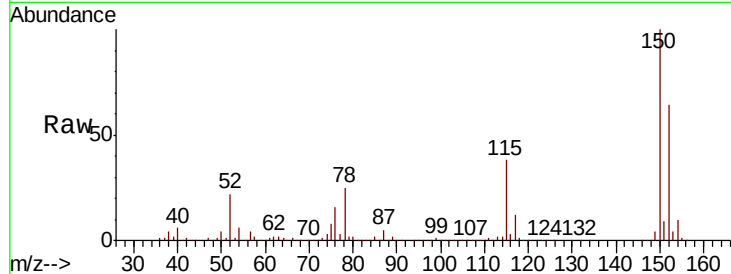


#72

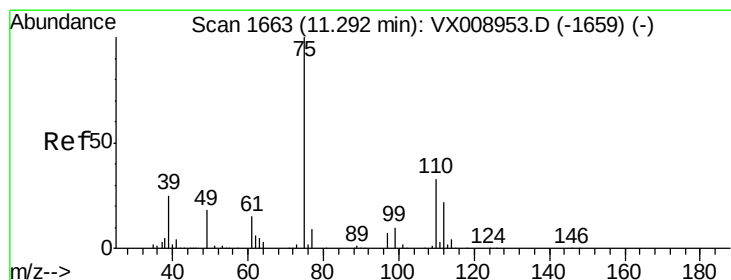
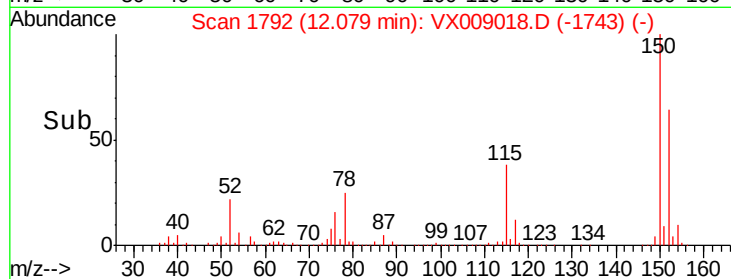
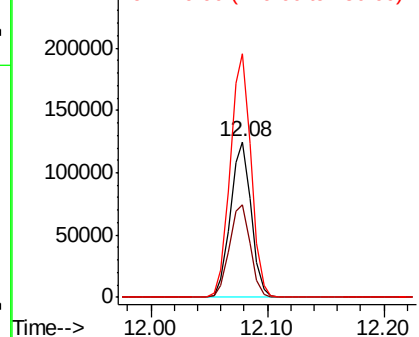
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009018.D
Acq: 17 Apr 2019 16:34

Instrument :
MSVOA_X
ClientSampleId :
SS037TW143-190415

Tot Ion:152 Resp: 153276
Ion Ratio Lower Upper
152 100
115 60.1 41.4 124.2
150 156.9 0.0 349.8



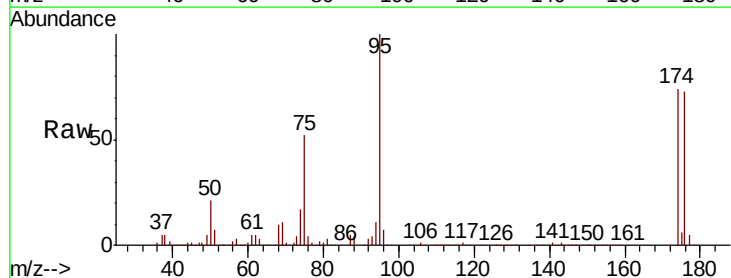
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



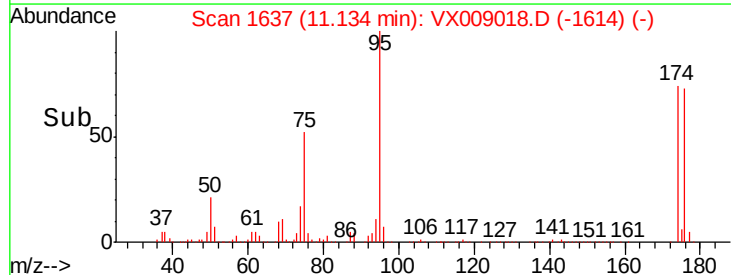
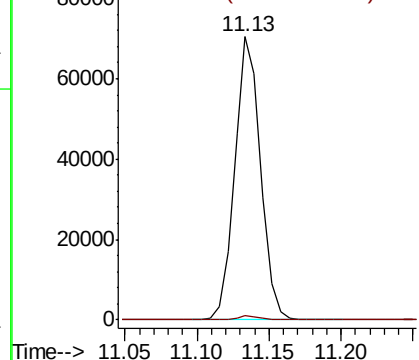
#76

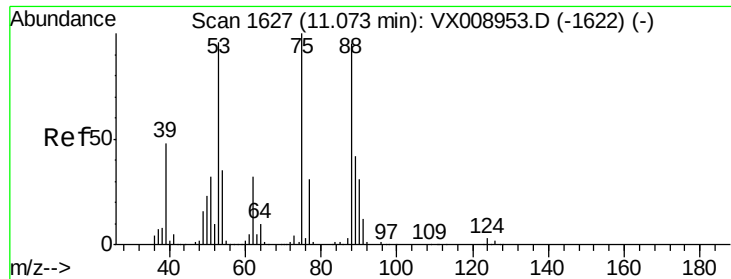
1,2,3-Trichloropropane
Concen: 23.655 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009018.D
Acq: 17 Apr 2019 16:34

Tgt Ion: 75 Resp: 88535
Ion Ratio Lower Upper
75 100
77 1.4 22.7 68.0#



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: 60.730 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009018.D

Acq: 17 Apr 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

SS037TW143-190415

Tot Ion: 75 Resp: 88535

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 36.0 54.0#

