

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041619\
 Data File : VX008998.D
 Acq On : 16 Apr 2019 19:21
 Operator : JC/SP
 Sample : K2387-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410

Quant Time: Apr 17 04:19:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

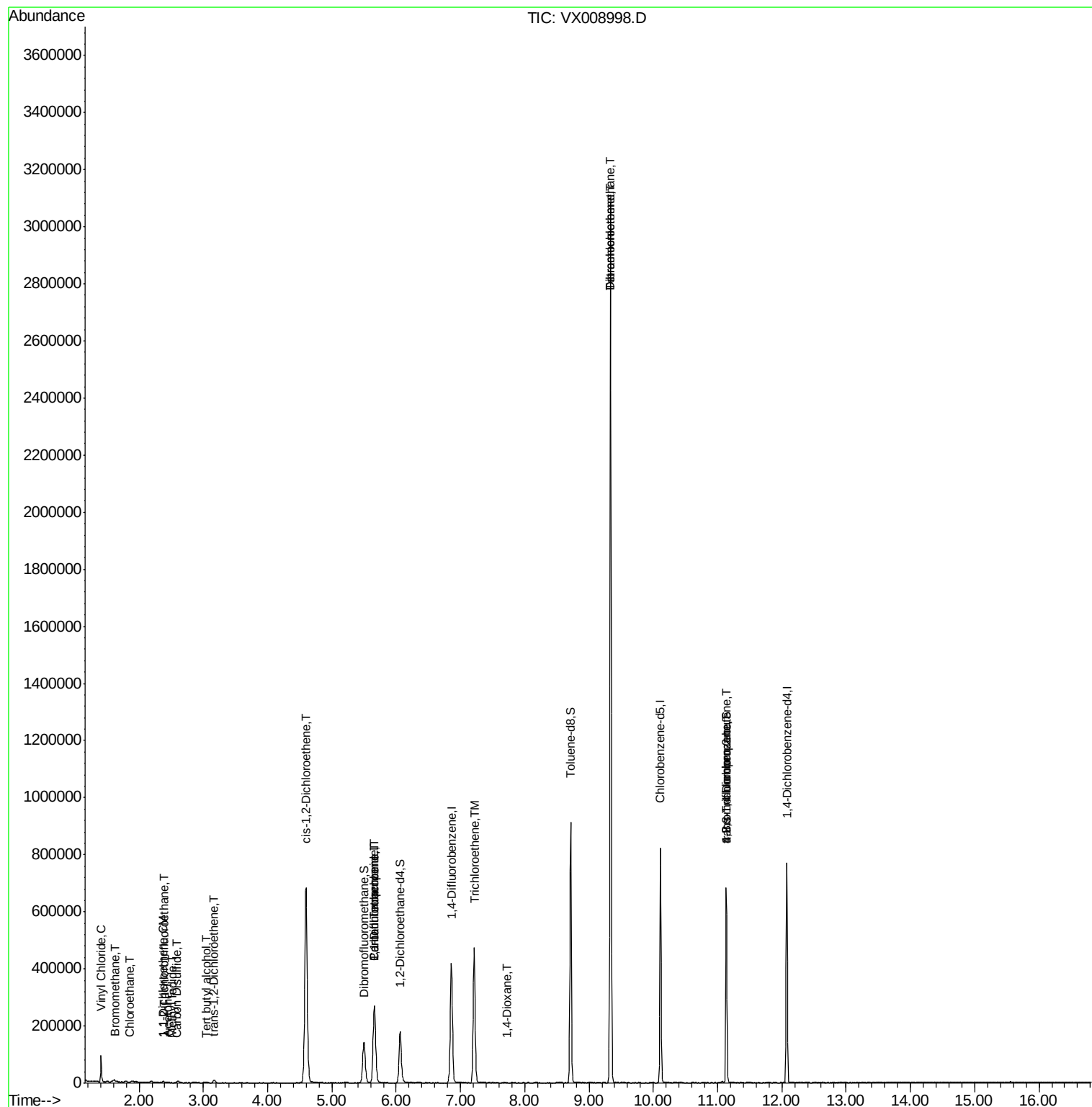
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	261882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	414634	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	361736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	154681	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	168781	45.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.46%	
35) Dibromofluoromethane	5.50	113	122242	45.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.88%	
50) Toluene-d8	8.71	98	521716	49.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	11.13	95	175548	46.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.72%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	63336	17.573	ug/l	98
5) Bromomethane	1.63	94	225	3.940	ug/l #	3
6) Chloroethane	1.85	64	1606	0.758	ug/l #	60
9) 1,1,2-Trichlorotrifluoroet	2.39	101	629	0.234	ug/l #	93
10) Methyl Iodide	2.52	142	101	4.446	ug/l #	47
11) Tert butyl alcohol	3.04	59	1207	1.473	ug/l	98
12) 1,1-Dichloroethene	2.37	96	1256	0.447	ug/l	97
16) Acetone	2.45	43	3147	1.644	ug/l	98
17) Carbon Disulfide	2.57	76	505	1.312	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	3166	1.057	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	427578	125.723	ug/l	90
28) Bromochloromethane	5.01	49	114	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	20524	4.786	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25133	6.913	ug/l #	17
44) Trichloroethene	7.21	130	181192	58.456	ug/l	98
49) 1,4-Dioxane	7.73	88	22	0.268	ug/l #	19
60) Dibromochloromethane	9.34	129	555265	192.809	ug/l #	10
64) Tetrachloroethene	9.34	164	592366	215.560	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	88981	23.559	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	88981	60.482	ug/l #	11

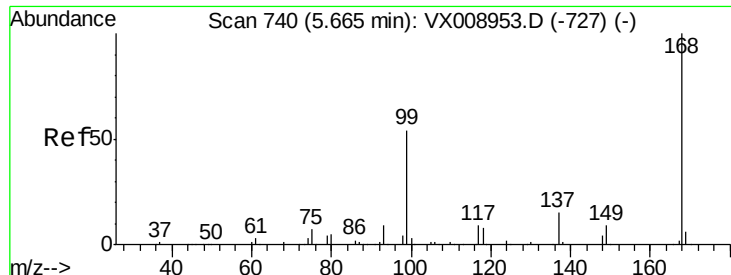
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

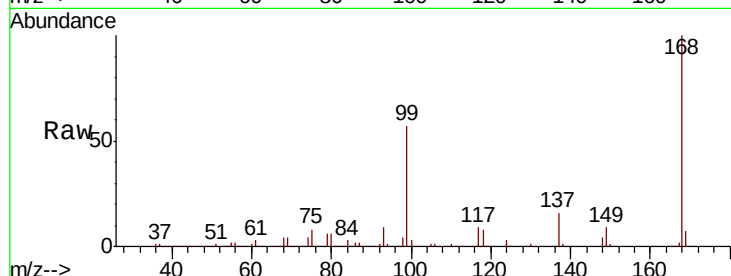
SS040MW318-190410

Tot Ion:168 Resp: 261882

Ion Ratio Lower Upper

168 100

99 57.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

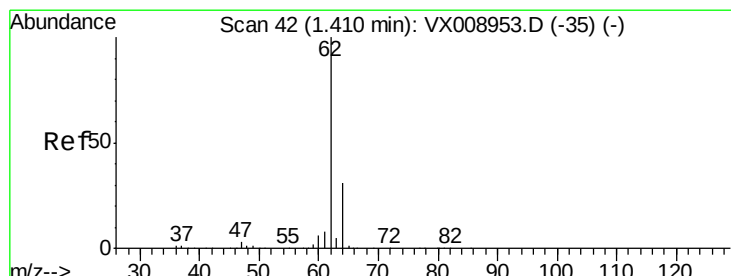
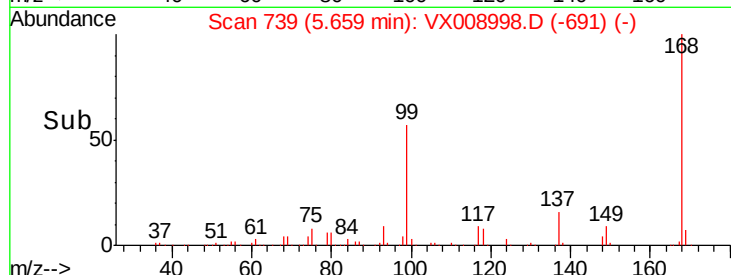
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 17.573 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008998.D

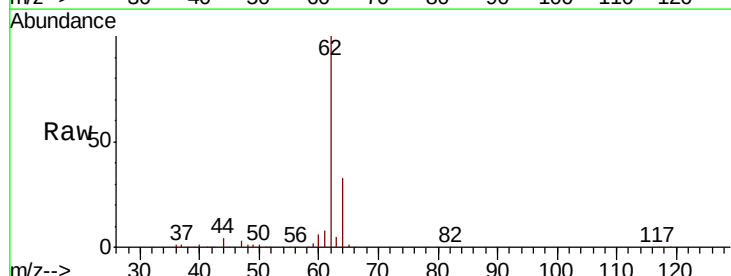
Acq: 16 Apr 2019 19:21

Tgt Ion: 62 Resp: 63336

Ion Ratio Lower Upper

62 100

64 32.4 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

60000

50000

40000

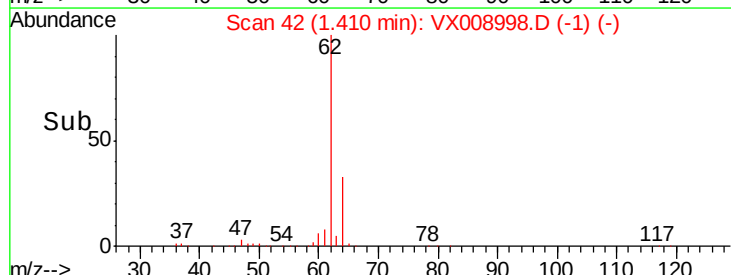
30000

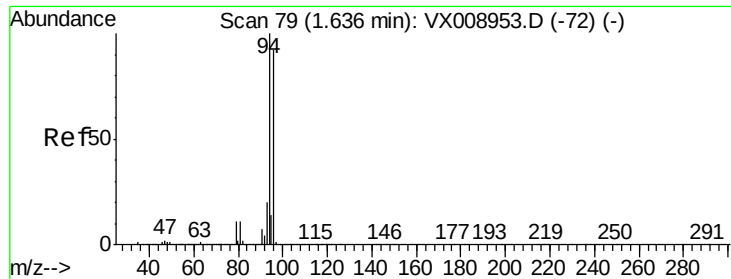
20000

10000

0

Time--> 1.35 1.40 1.45 1.50 1.55





#5

Bromomethane

Concen: 3.940 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

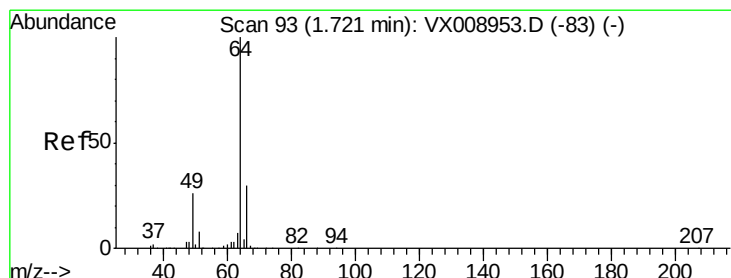
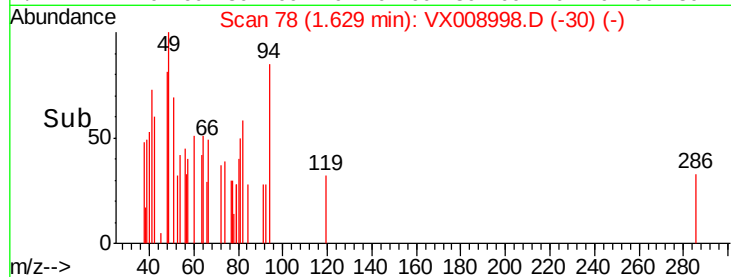
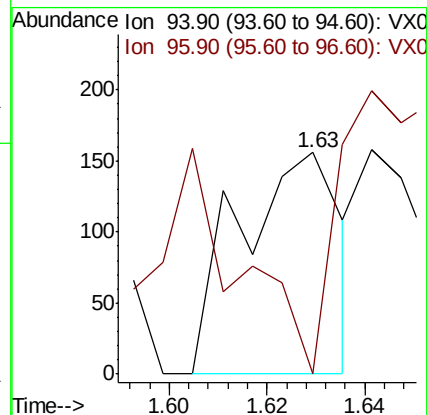
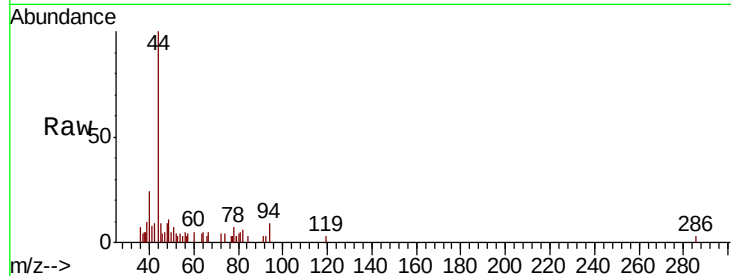
SS040MW318-190410

Tot Ion: 94 Resp: 225

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#



#6

Chloroethane

Concen: 0.758 ug/l

RT: 1.85 min Scan# 115

Delta R.T. 0.13 min

Lab File: VX008998.D

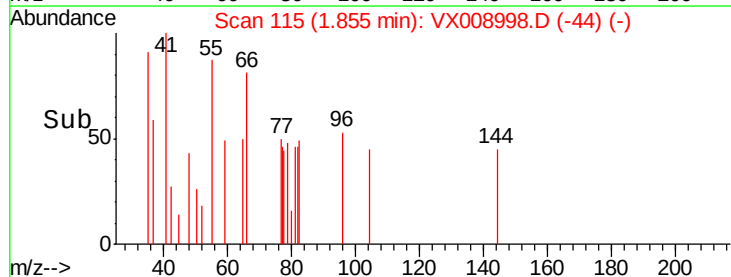
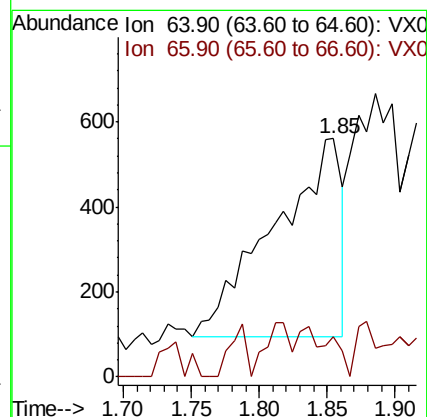
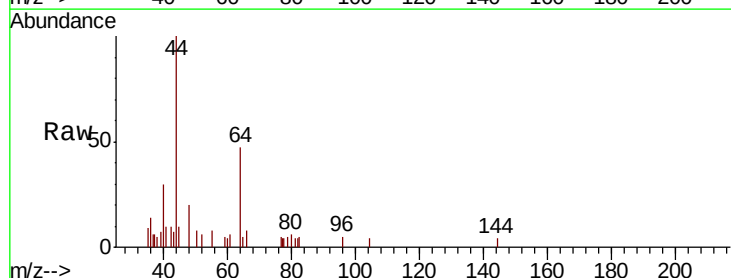
Acq: 16 Apr 2019 19:21

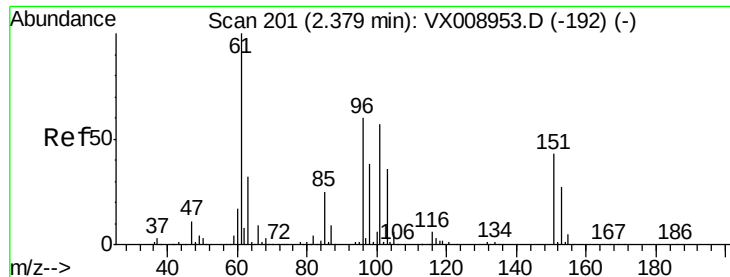
Tgt Ion: 64 Resp: 1606

Ion Ratio Lower Upper

64 100

66 8.4 24.2 36.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.234 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410

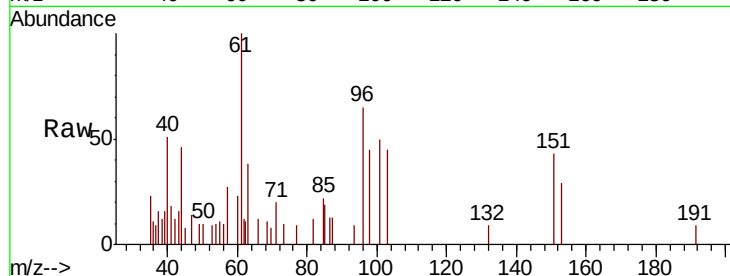
Tot Ion:101 Resp: 629

Ion Ratio Lower Upper

101 100

85 57.2 35.7 53.5#

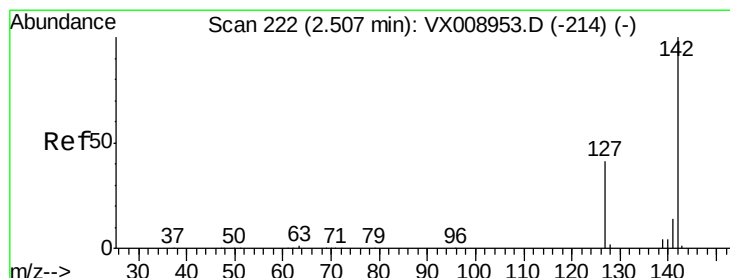
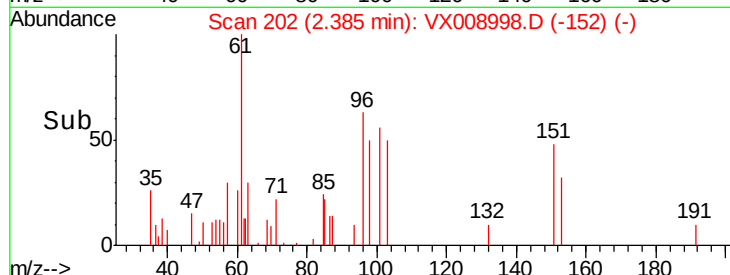
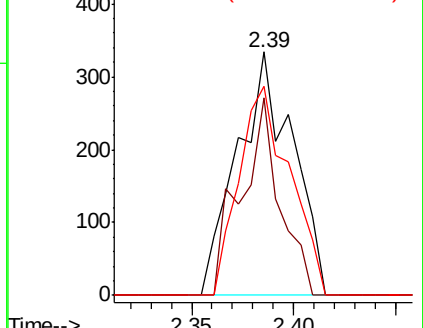
151 79.0 62.7 94.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.446 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

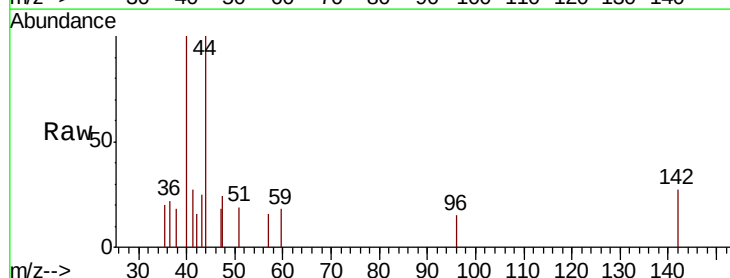
Tgt Ion:142 Resp: 101

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

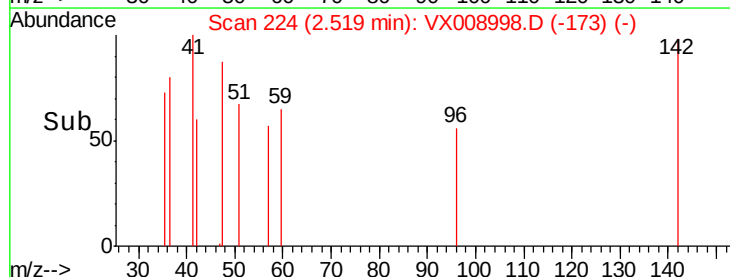
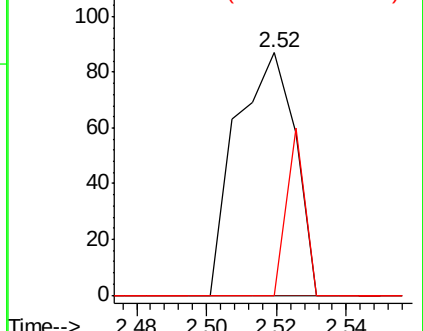
141 21.8 11.4 17.2#

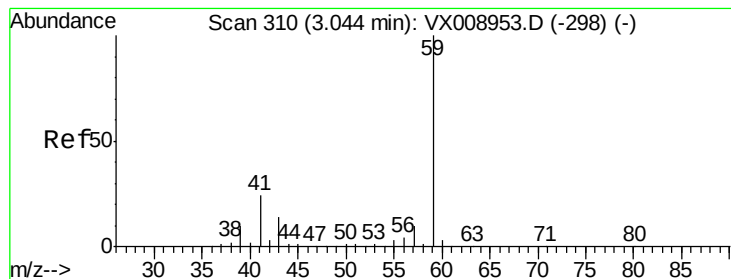


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



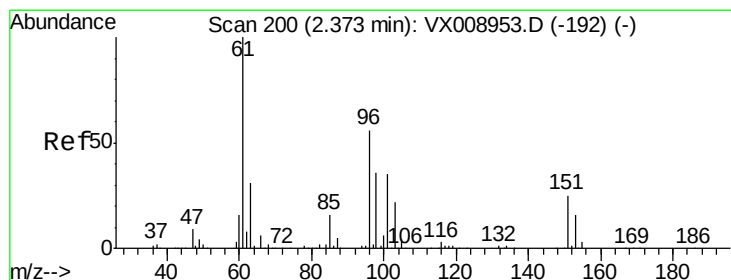
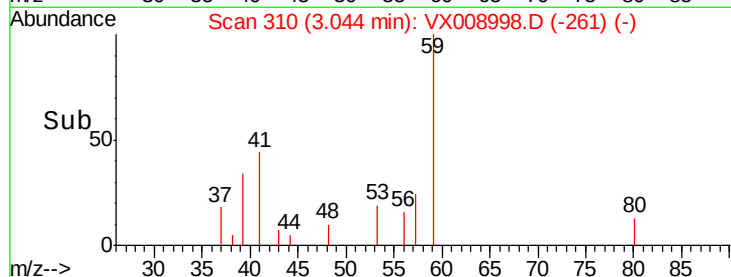
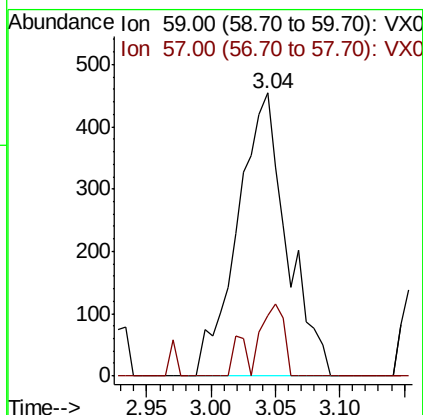
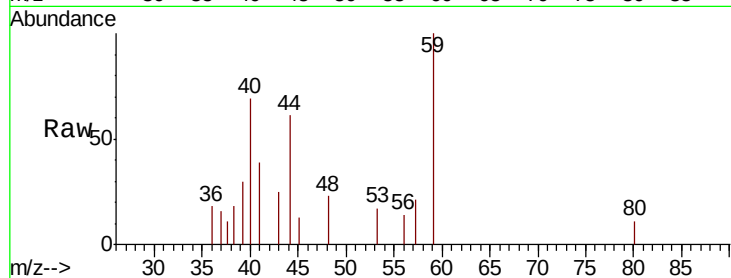


#11

Tert butyl alcohol
 Concen: 1.473 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.00 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410

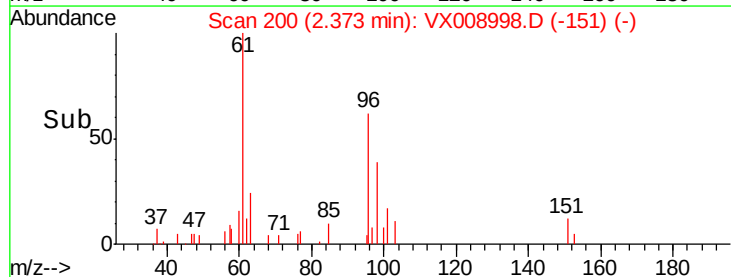
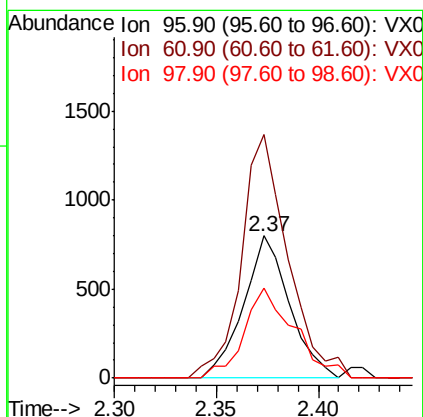
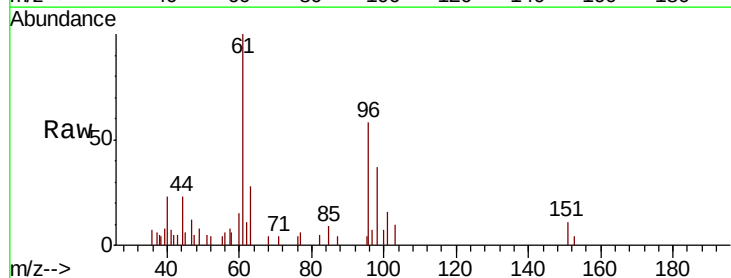
Tot Ion: 59 Resp: 1207
 Ion Ratio Lower Upper
 59 100
 57 11.4 8.4 12.6

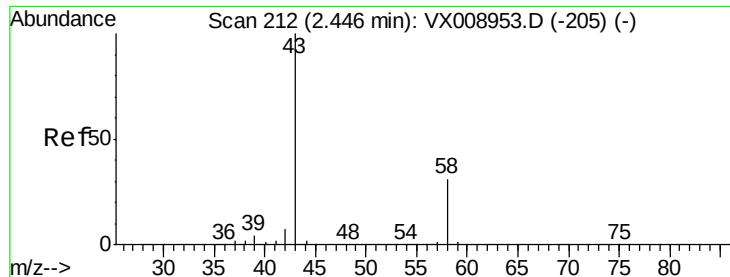


#12

1,1-Dichloroethene
 Concen: 0.447 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Tgt Ion: 96 Resp: 1256
 Ion Ratio Lower Upper
 96 100
 61 171.4 142.2 213.2
 98 63.7 50.9 76.3





#16

Acetone

Concen: 1.644 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

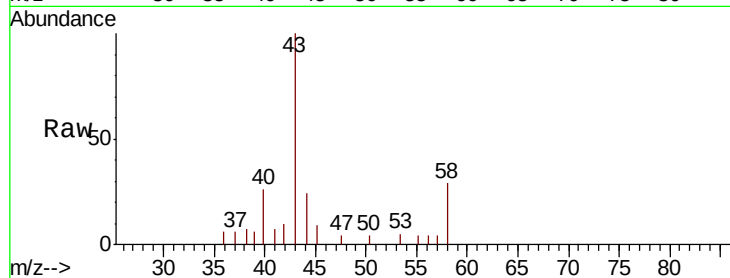
SS040MW318-190410

Tot Ion: 43 Resp: 3147

Ion Ratio Lower Upper

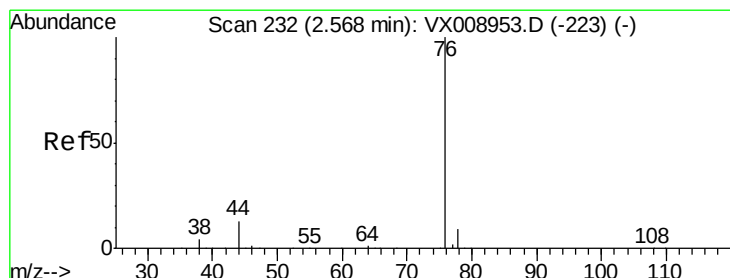
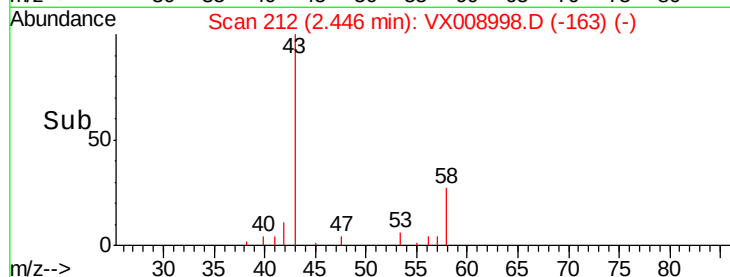
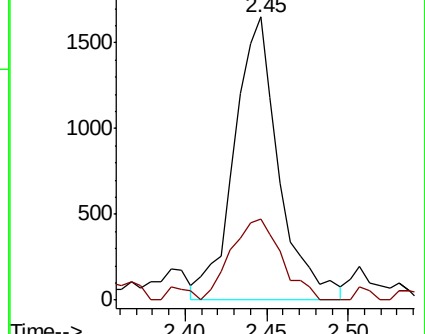
43 100

58 29.9 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: 1.312 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008998.D

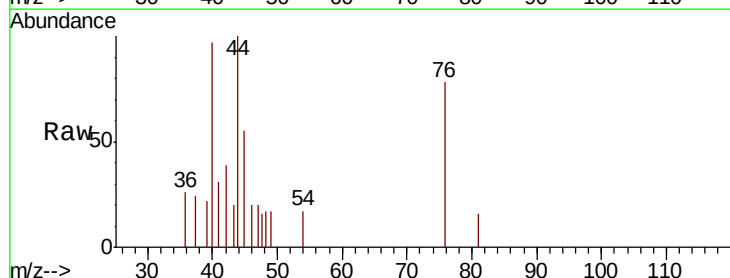
Acq: 16 Apr 2019 19:21

Tgt Ion: 76 Resp: 505

Ion Ratio Lower Upper

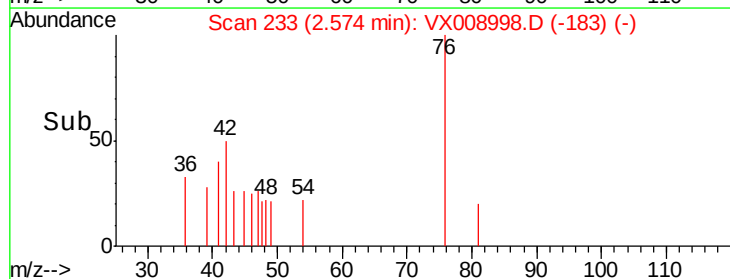
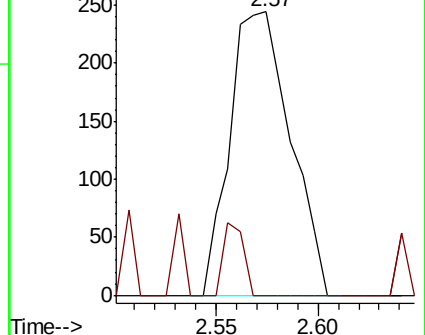
76 100

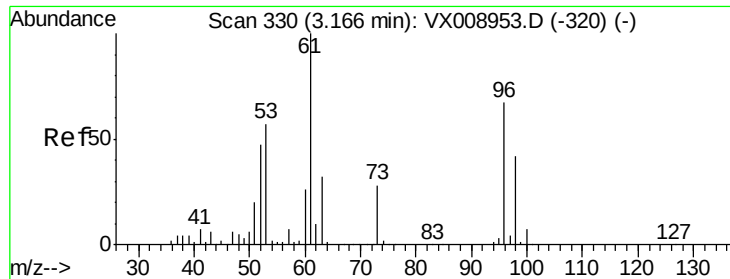
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 1.057 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

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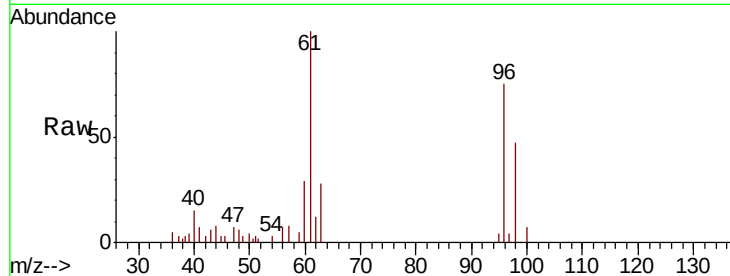
Tot Ion: 96 Resp: 3166

Ion Ratio Lower Upper

96 100

61 133.5 120.3 180.5

98 63.0 50.2 75.2

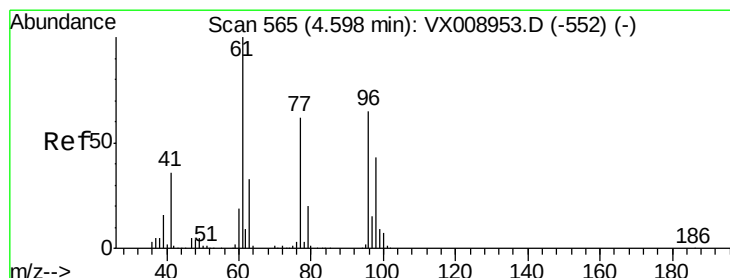
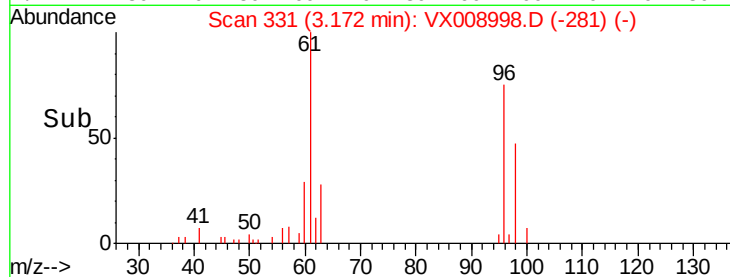
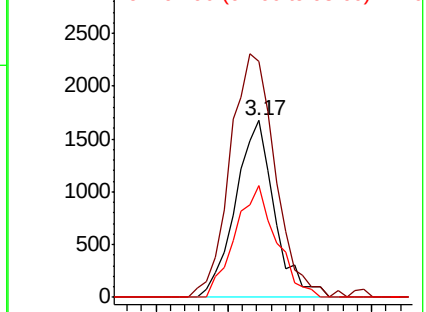


Abundance

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



#27

cis-1,2-Dichloroethene

Concen: 125.723 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

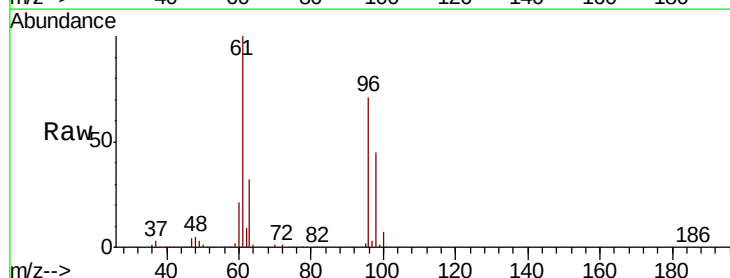
Tgt Ion: 96 Resp: 427578

Ion Ratio Lower Upper

96 100

61 142.5 0.0 322.0

98 63.9 0.0 128.4

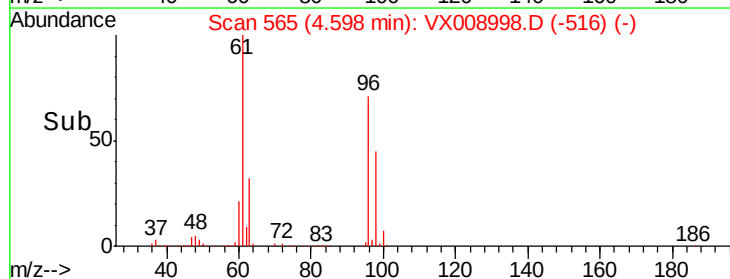
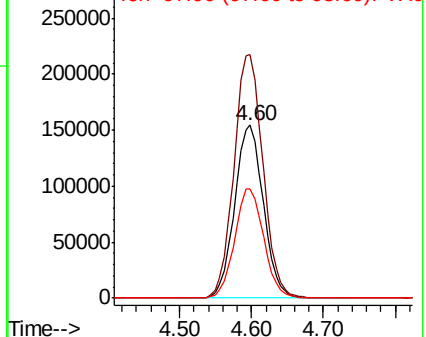


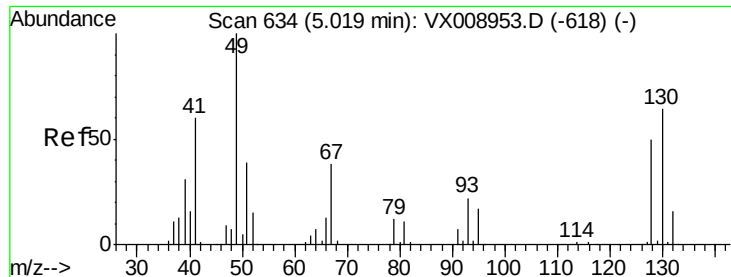
Abundance

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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

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ClientSampleId :

SS040MW318-190410

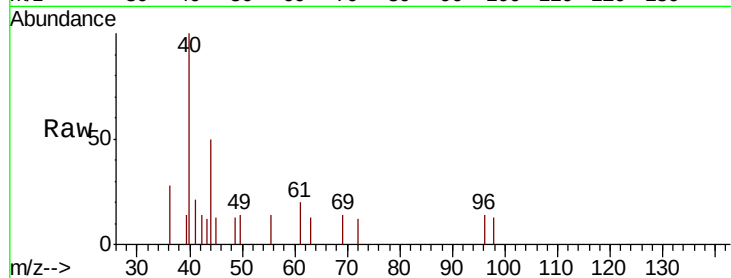
Tot Ion: 49 Resp: 114

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

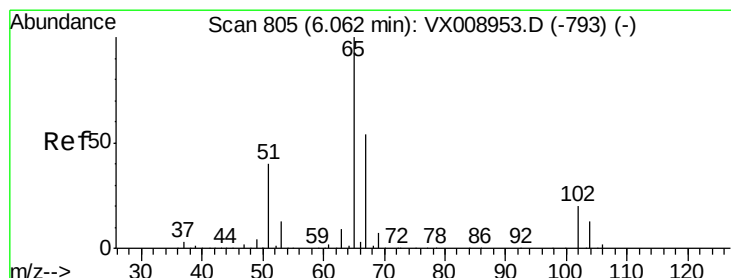
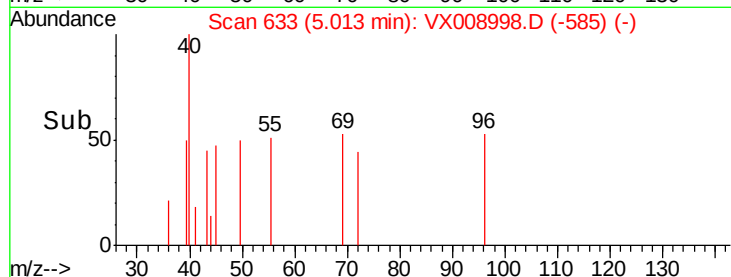
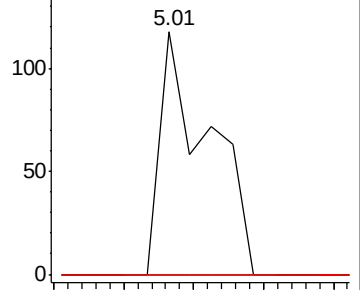
130 0.0 50.4 75.6#



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



#33

1,2-Dichloroethane-d4

Concen: 45.732 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008998.D

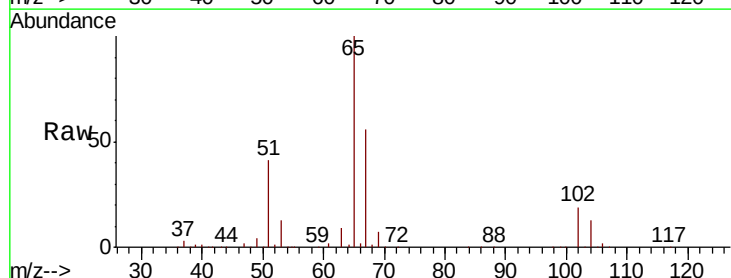
Acq: 16 Apr 2019 19:21

Tgt Ion: 65 Resp: 168781

Ion Ratio Lower Upper

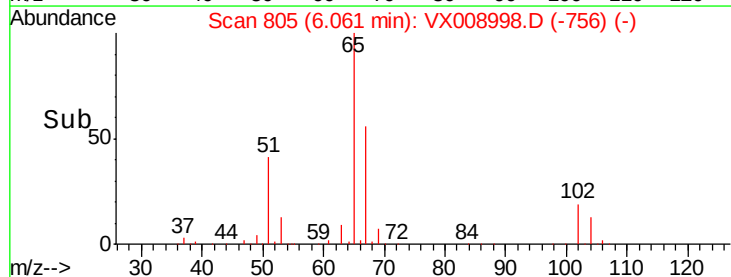
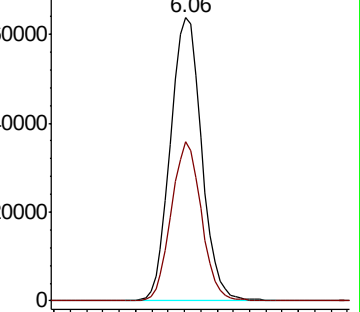
65 100

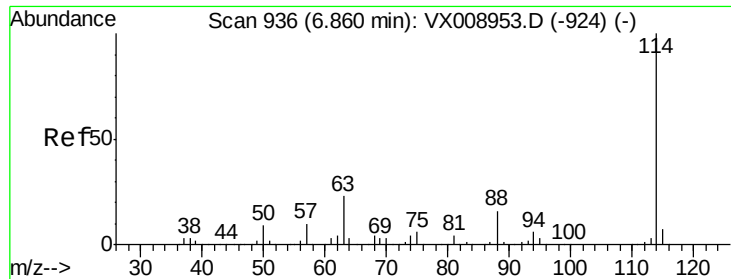
67 54.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

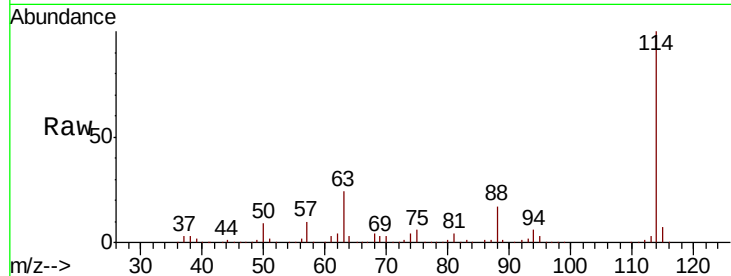




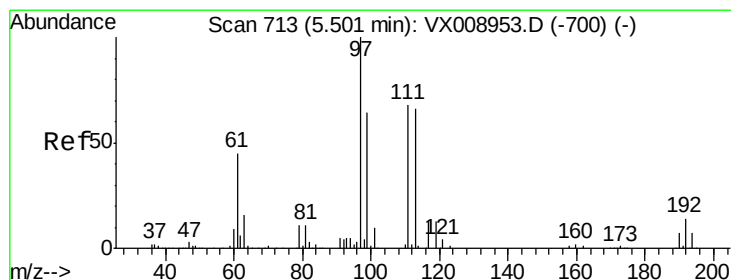
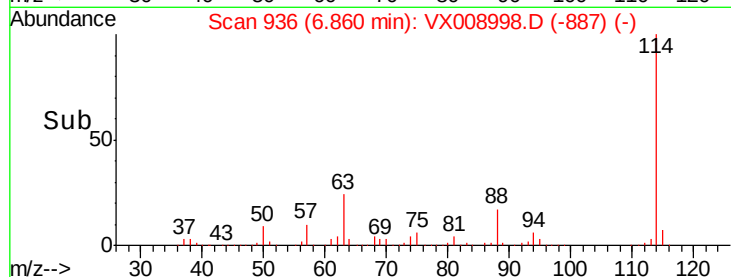
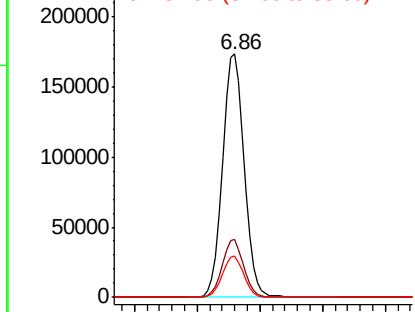
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410

Tot Ion:114 Resp: 414634
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.0
 88 17.1 0.0 32.6

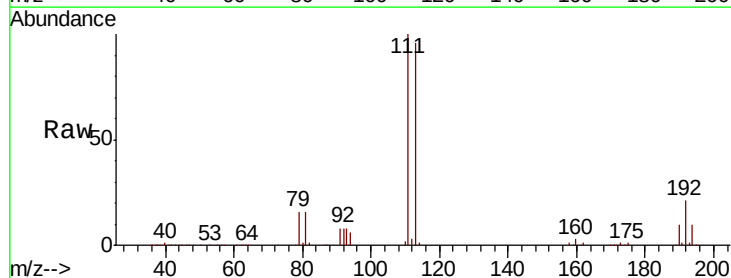


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

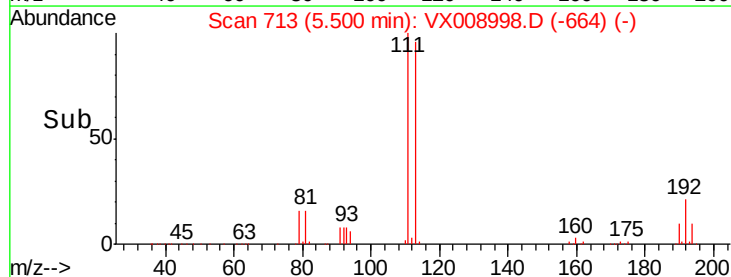
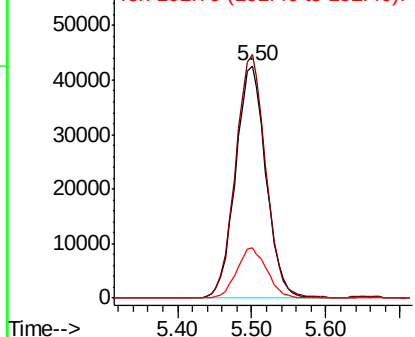


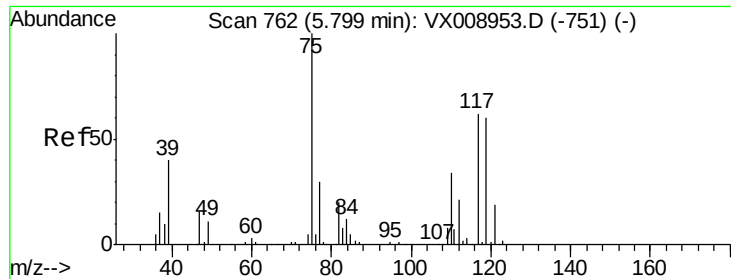
#35
 Dibromofluoromethane
 Concen: 45.938 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Tgt Ion:113 Resp: 122242
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.9 124.3
 192 21.3 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

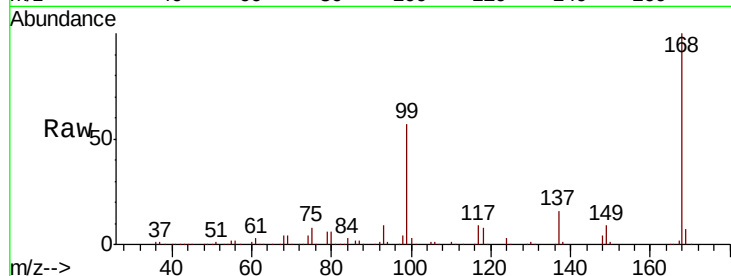




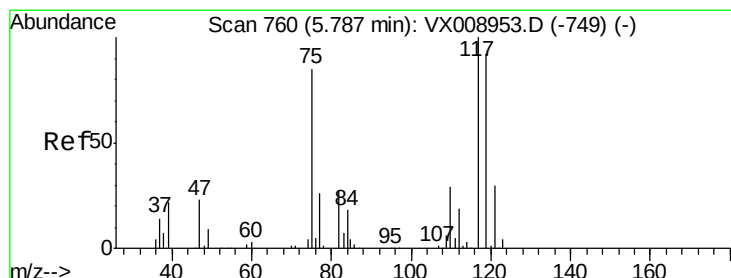
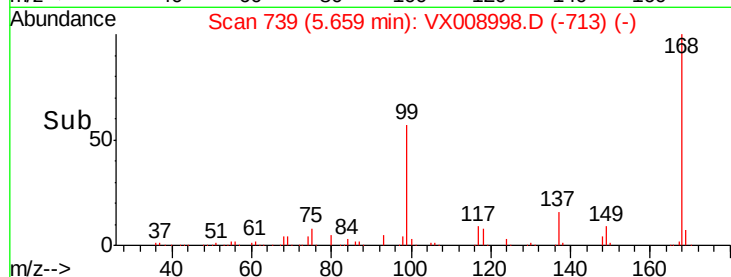
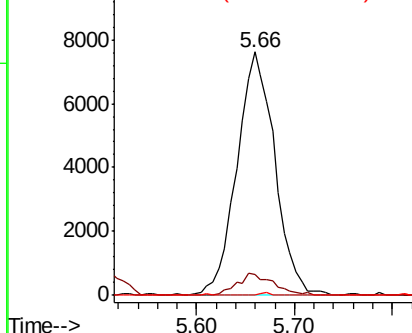
#36
 1,1-Dichloropropene
 Concen: 4.786 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410

Tot Ion	75	Resp	20524
Ion Ratio	Lower	Upper	
75	100		
110	8.6	16.9	50.7#
77	0.3	25.0	37.4#

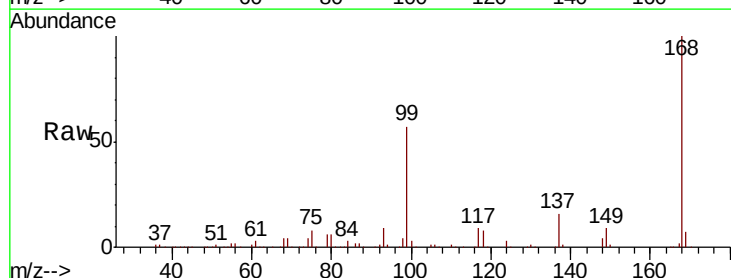


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

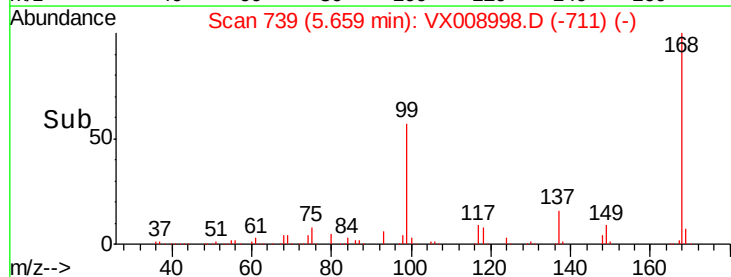
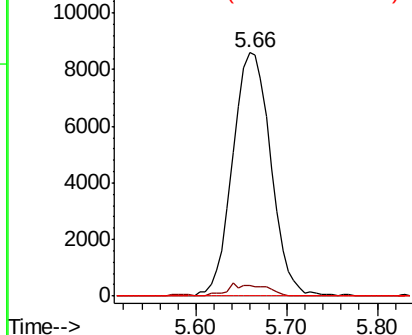


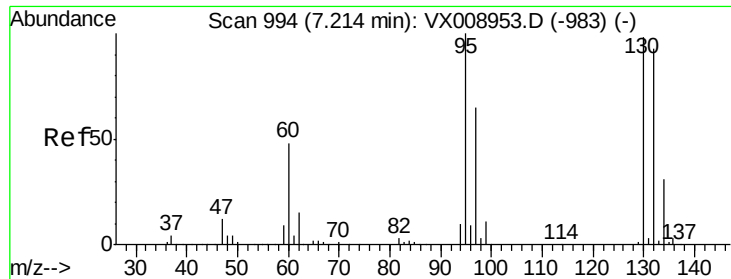
#38
 Carbon Tetrachloride
 Concen: 6.913 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Tgt Ion	117	Resp	25133
Ion Ratio	Lower	Upper	
117	100		
119	4.3	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

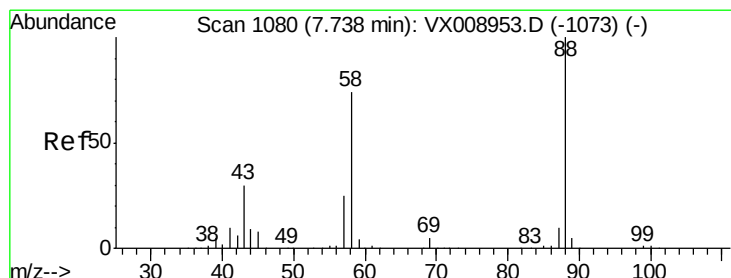
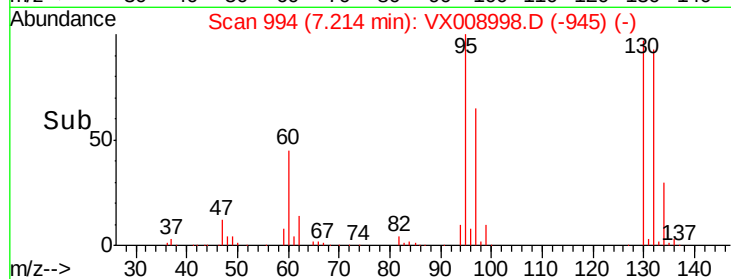
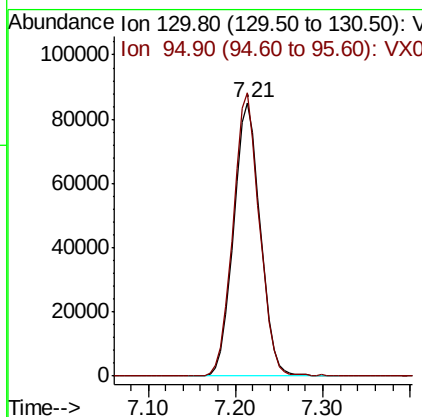
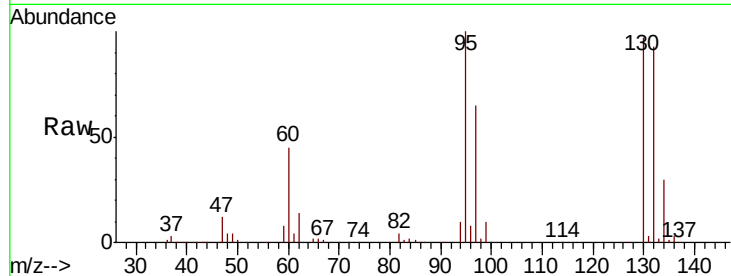




#44
 Trichloroethene
 Concen: 58.456 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

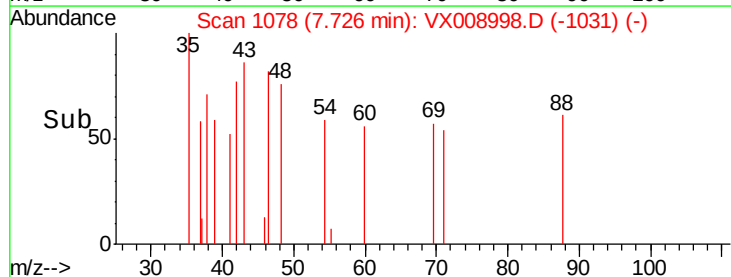
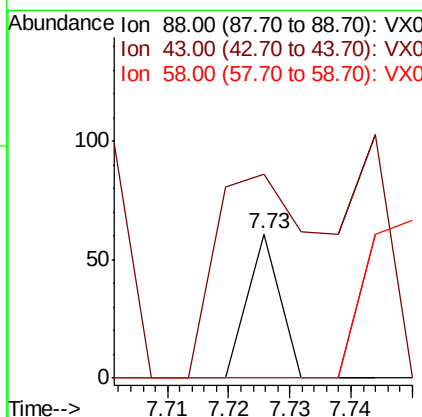
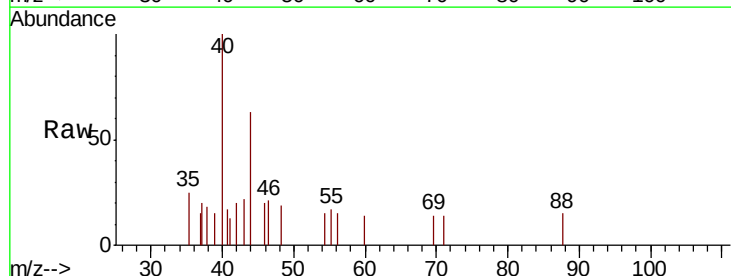
Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410

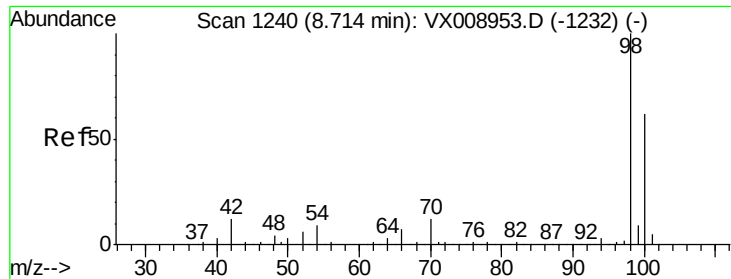
Tot Ion:130 Resp: 181192
 Ion Ratio Lower Upper
 130 100
 95 103.4 0.0 203.2



#49
 1,4-Dioxane
 Concen: 0.268 ug/l
 RT: 7.73 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VX008998.D
 Acq: 16 Apr 2019 19:21

Tgt Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.3 43.9#
 58 0.0 62.6 93.8#

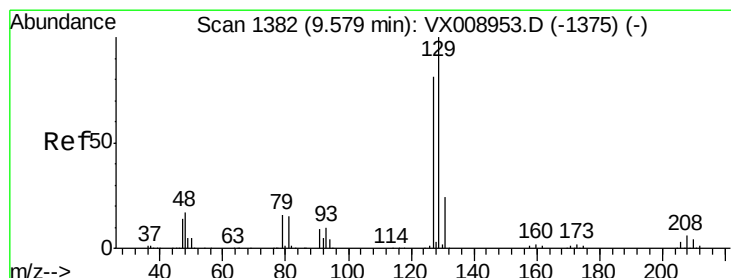
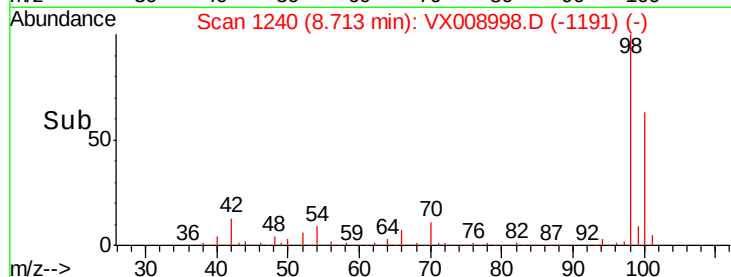
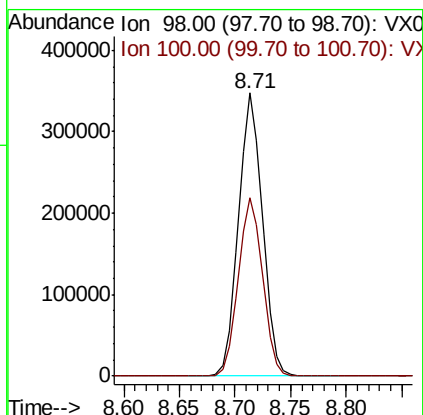
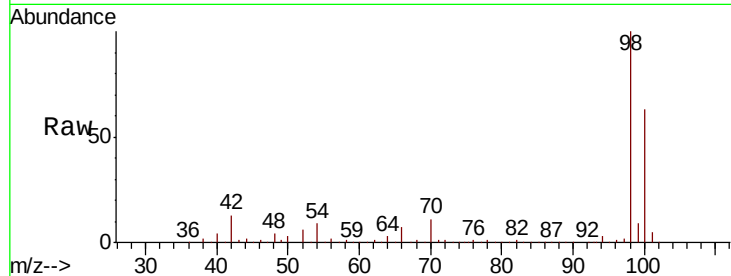




#50
Toluene-d8
Concen: 49.161 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008998.D
Acq: 16 Apr 2019 19:21

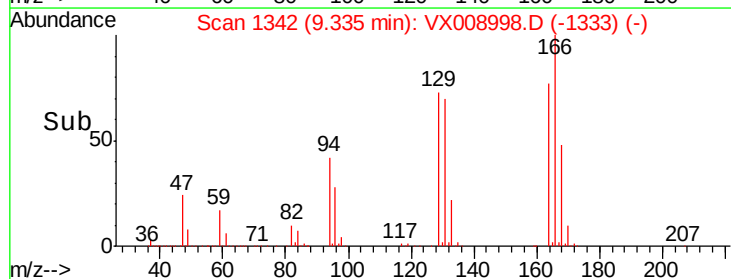
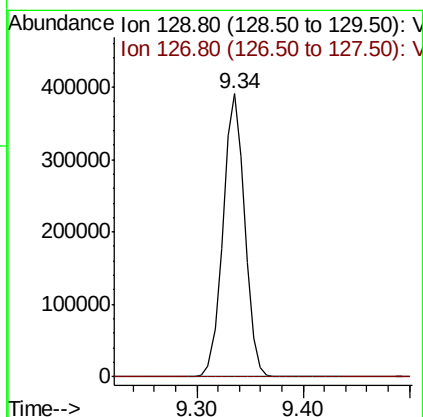
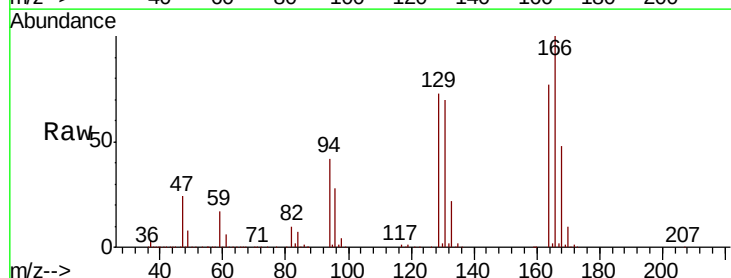
Instrument :
MSVOA_X
ClientSampleId :
SS040MW318-190410

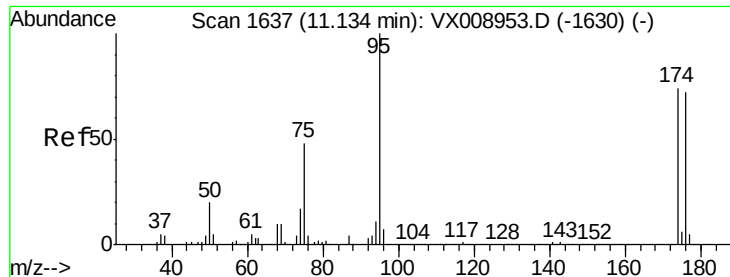
Tot Ion: 98 Resp: 521716
Ion Ratio Lower Upper
98 100
100 63.7 51.4 77.2



#60
Dibromochloromethane
Concen: 192.809 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008998.D
Acq: 16 Apr 2019 19:21

Tgt Ion:129 Resp: 555265
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 46.861 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410

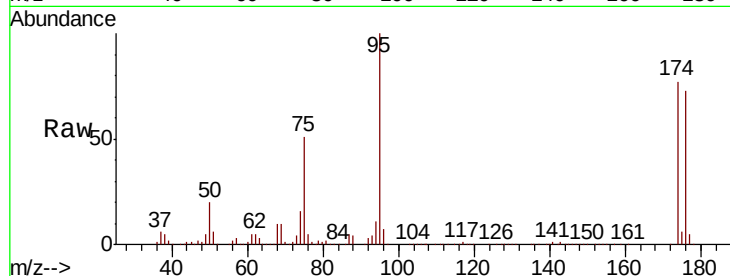
Tot Ion: 95 Resp: 175548

Ion Ratio Lower Upper

95 100

174 79.8 0.0 159.6

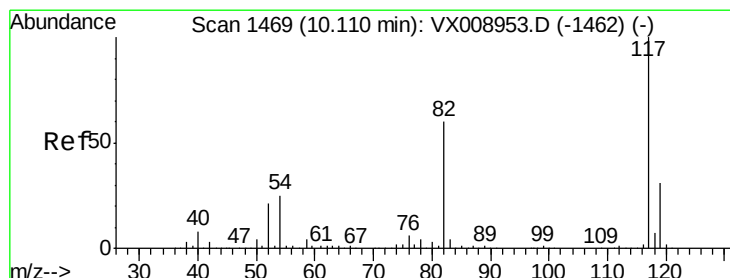
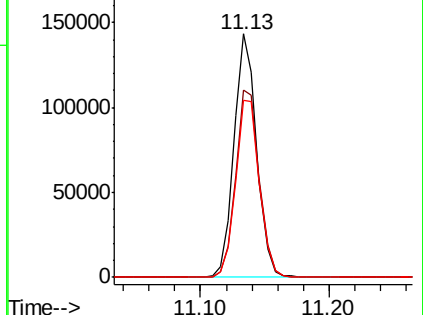
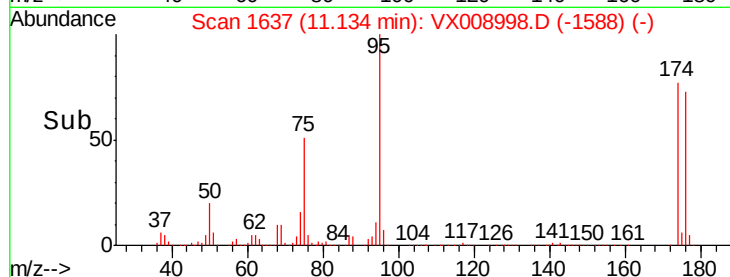
176 76.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008998.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008998.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008998.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

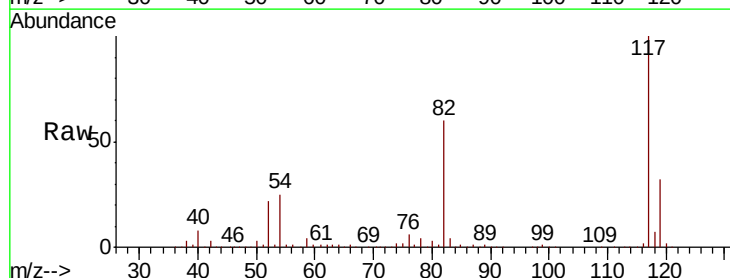
Tgt Ion: 117 Resp: 361736

Ion Ratio Lower Upper

117 100

82 59.6 48.2 72.4

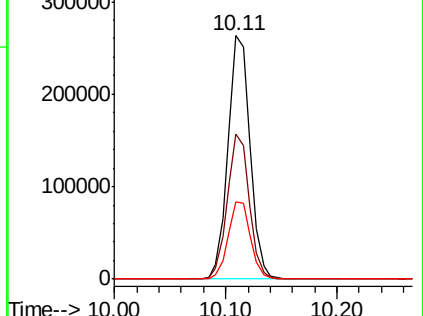
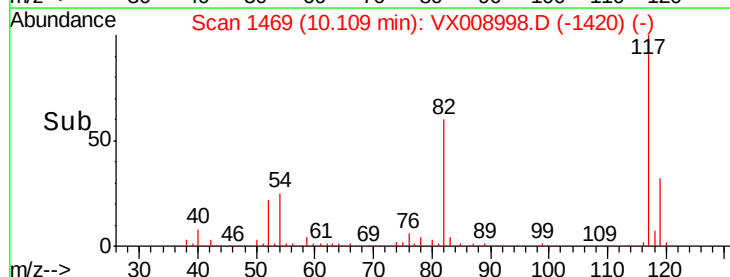
119 31.7 25.0 37.6

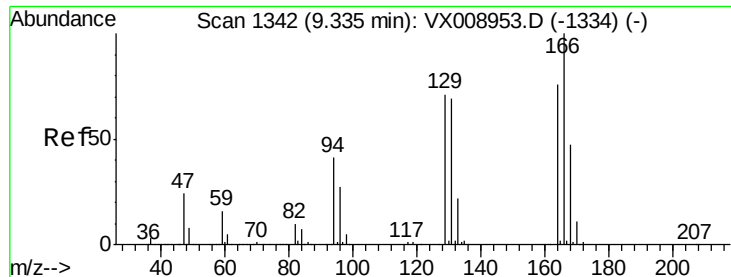


Abundance Ion 116.90 (116.60 to 117.60): VX008998.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008998.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008998.D (-1420) (-)





#64

Tetrachloroethene

Concen: 215.560 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410

Tot Ion:164 Resp: 592366

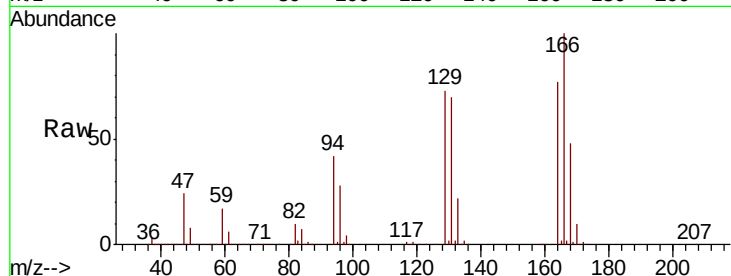
Ion Ratio Lower Upper

164 100

166 129.8 105.0 157.4

129 94.2 74.2 111.4

131 91.1 72.2 108.2



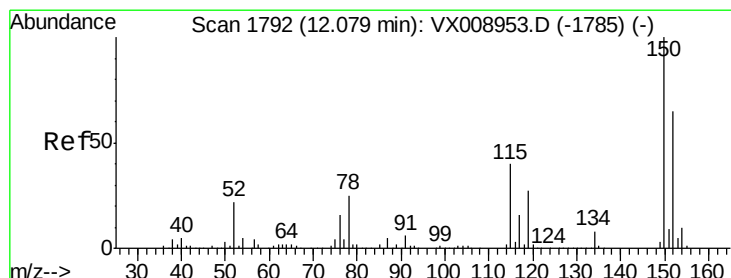
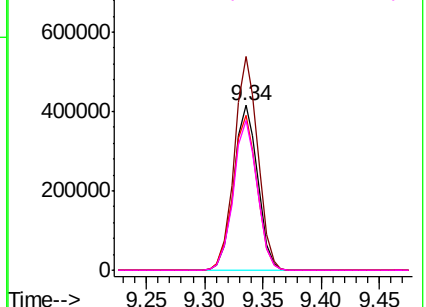
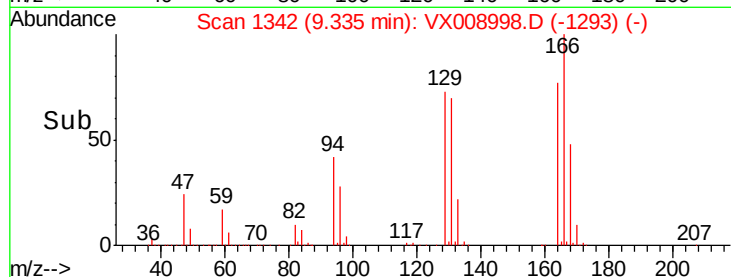
Abundance

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: VX008998.D

Acq: 16 Apr 2019 19:21

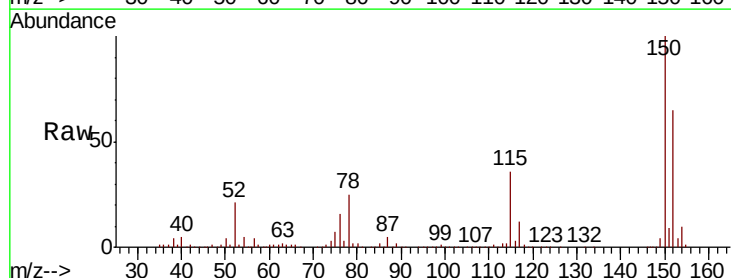
Tgt Ion:152 Resp: 154681

Ion Ratio Lower Upper

152 100

115 60.0 41.4 124.2

150 156.7 0.0 349.8

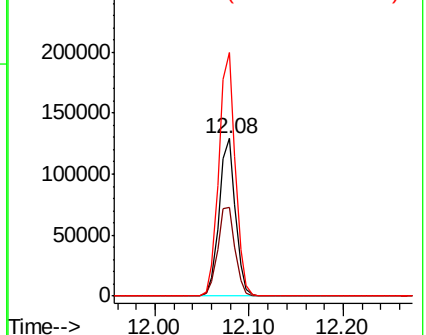
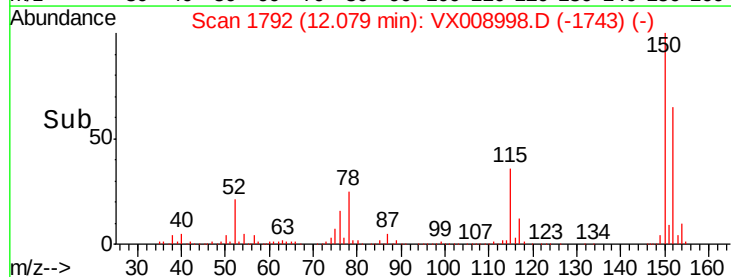


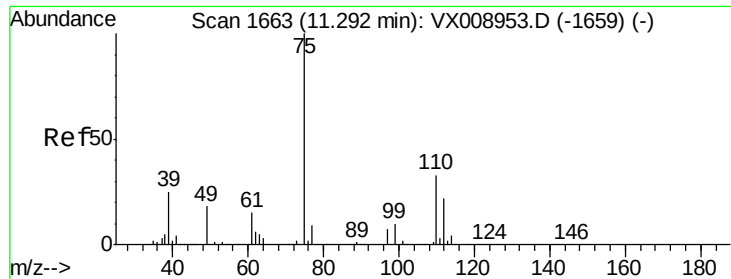
Abundance

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: 23.559 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

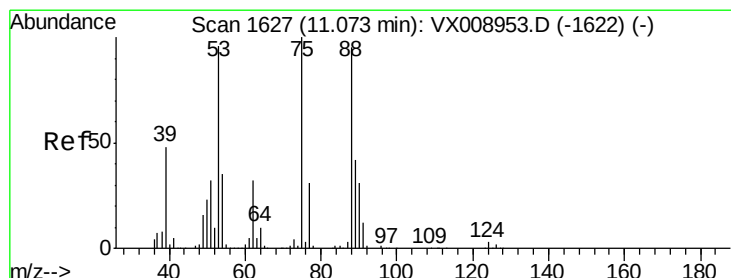
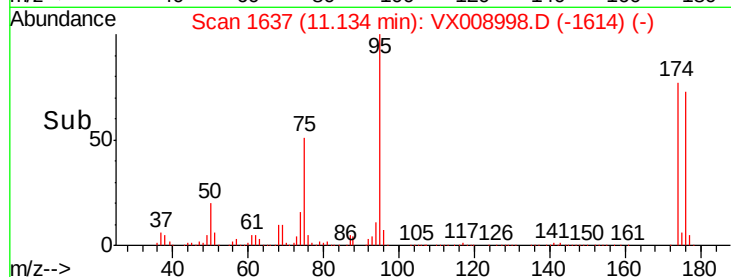
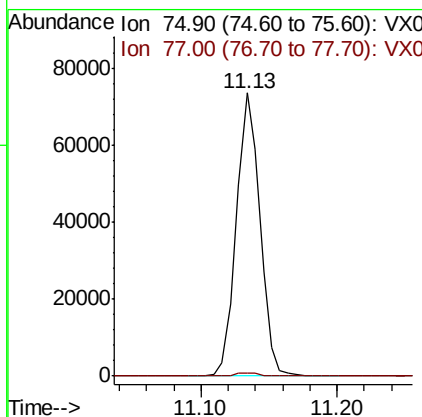
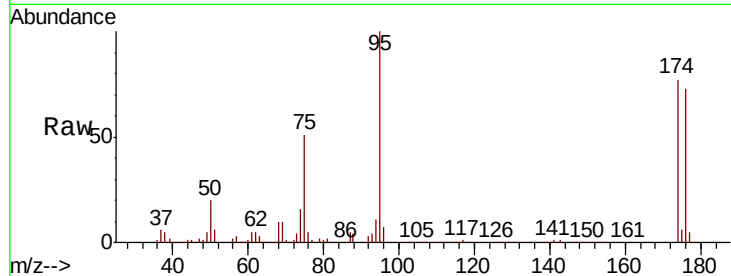
SS040MW318-190410

Tot Ion: 75 Resp: 88981

Ion Ratio Lower Upper

75 100

77 1.2 22.7 68.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.482 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008998.D

Acq: 16 Apr 2019 19:21

Tgt Ion: 75 Resp: 88981

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#

