

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041519\
 Data File : VX008967.D
 Acq On : 15 Apr 2019 17:56
 Operator : JC/SP
 Sample : K2387-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 16 03:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	438493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	380802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172552	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	176513	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
35) Dibromofluoromethane	5.50	113	130880	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
50) Toluene-d8	8.71	98	546315	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	11.13	95	186898	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	

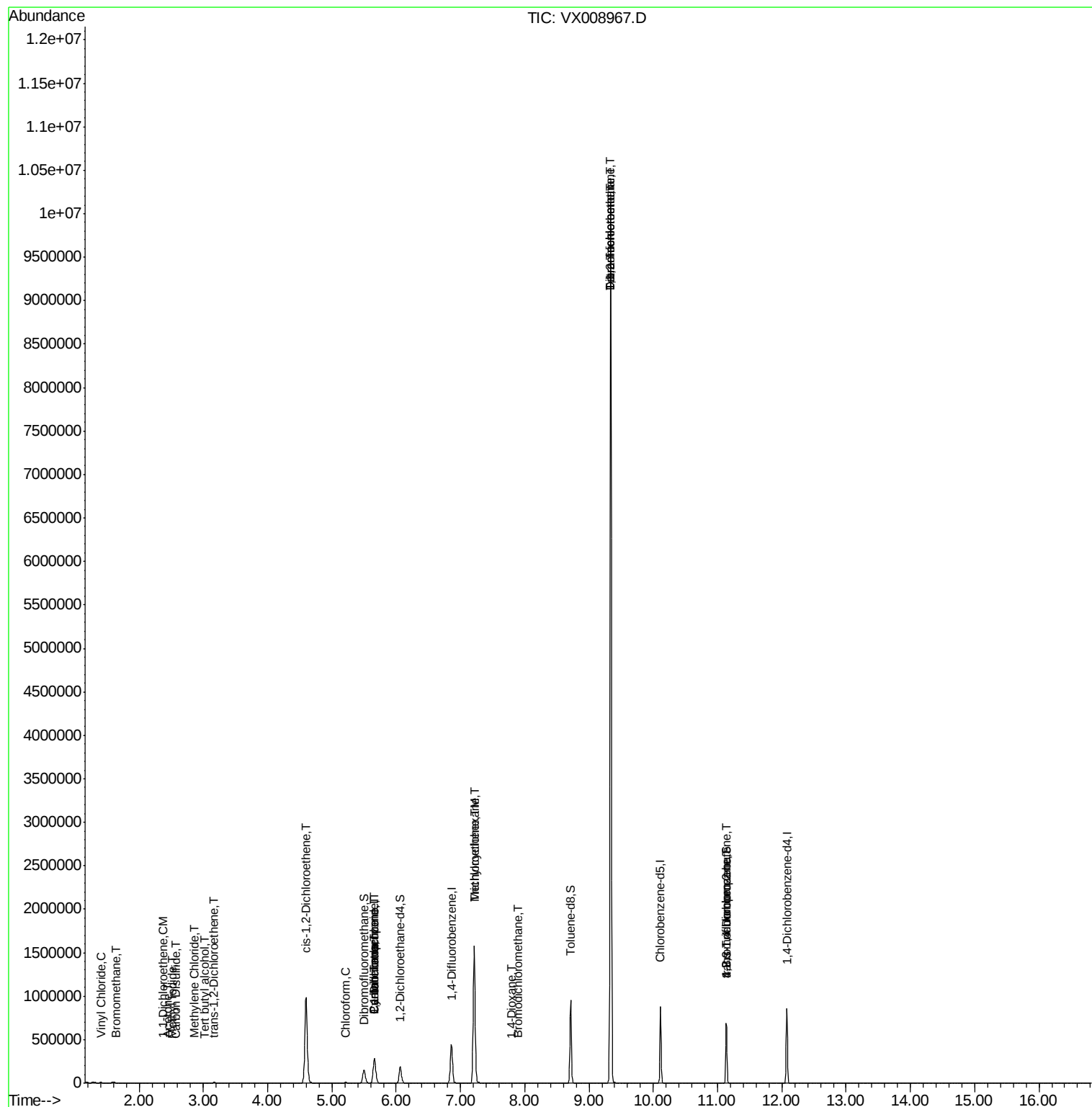
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	1674	0.443	ug/l	93
5) Bromomethane	1.65	94	300	3.965	ug/l	83
10) Methyl Iodide	2.52	142	333	4.513	ug/l #	83
11) Tert butyl alcohol	3.02	59	568	0.661	ug/l #	72
12) 1,1-Dichloroethene	2.38	96	803	0.273	ug/l	84
16) Acetone	2.44	43	4386	2.186	ug/l	97
17) Carbon Disulfide	2.57	76	846	1.348	ug/l #	64
20) Methylene Chloride	2.85	84	754	0.220	ug/l #	90
21) trans-1,2-Dichloroethene	3.17	96	2738	0.872	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	611398	171.512	ug/l	90
28) Bromochloromethane	4.99	49	49	Below Cal	#	72
30) Chloroform	5.21	83	6828	1.218	ug/l	93
31) Cyclohexane	5.66	56	6228	1.011	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	21411	4.721	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25611	6.662	ug/l #	17
39) Methylcyclohexane	7.21	83	7699	1.394	ug/l #	1
44) Trichloroethene	7.21	130	598105	182.461	ug/l	99
47) Bromodichloromethane	7.90	83	2494	0.589	ug/l	96
49) 1,4-Dioxane	7.79	88	21	0.241	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	16187	5.094	ug/l #	1
60) Dibromochloromethane	9.34	129	1921279	630.839	ug/l #	10
64) Tetrachloroethene	9.34	164	2042624	706.087	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	94535	22.437	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	94535	57.602	ug/l #	11

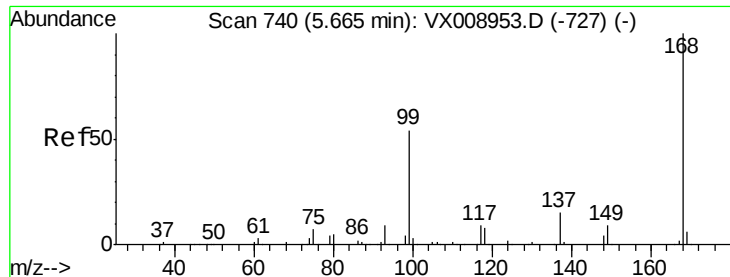
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 16 02:27:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

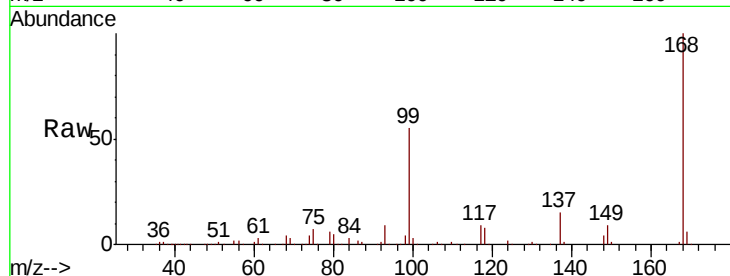
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 274494

Ion Ratio Lower Upper

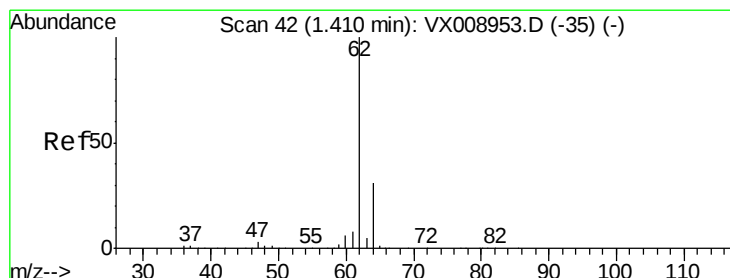
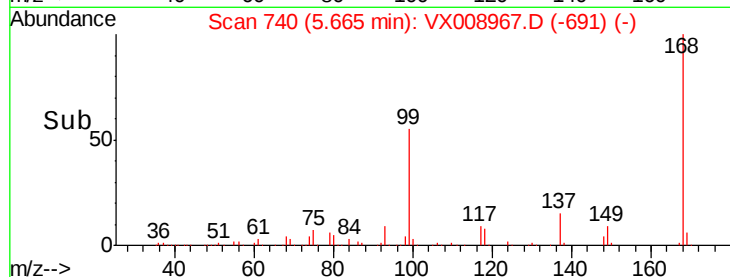
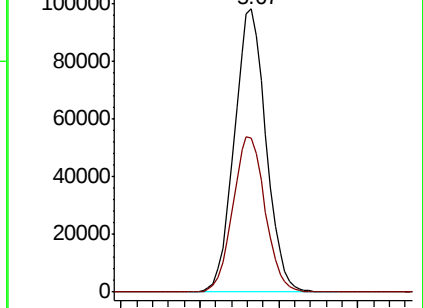
168 100

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



#4

Vinyl Chloride

Concen: 0.443 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008967.D

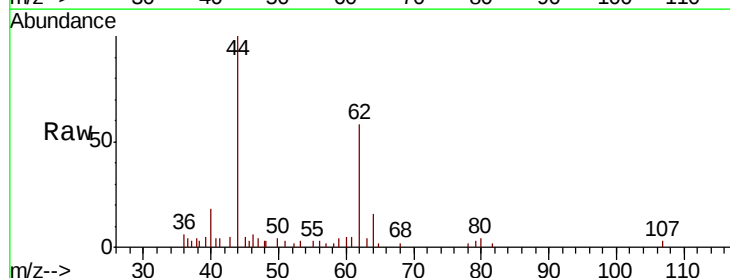
Acq: 15 Apr 2019 17:56

Tgt Ion: 62 Resp: 1674

Ion Ratio Lower Upper

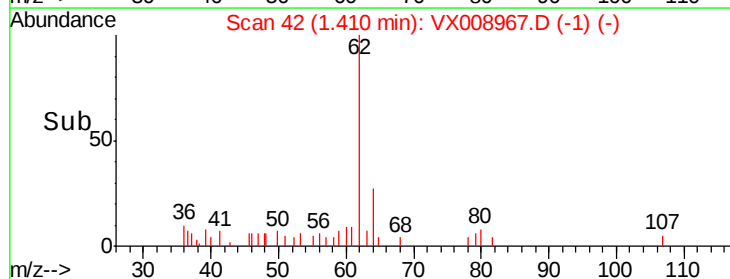
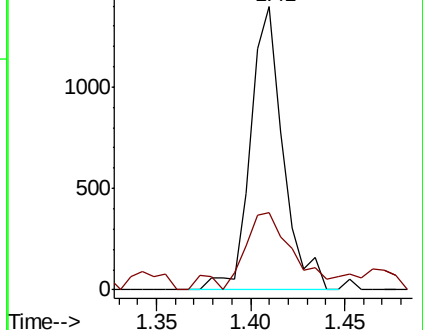
62 100

64 27.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 3.965 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

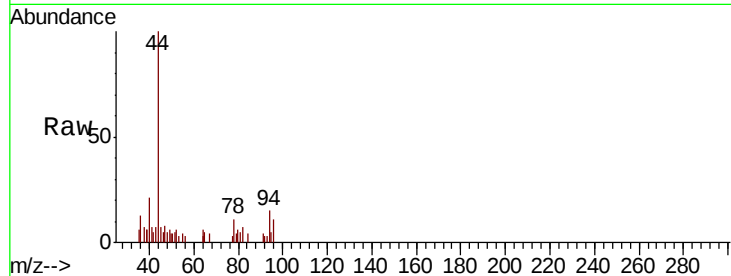
ClientSampled :

Tot Ion: 94 Resp: 300

Ion Ratio Lower Upper

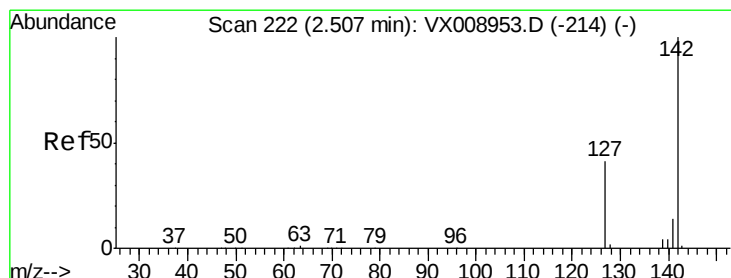
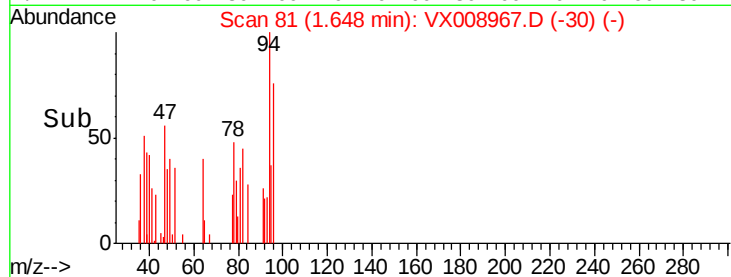
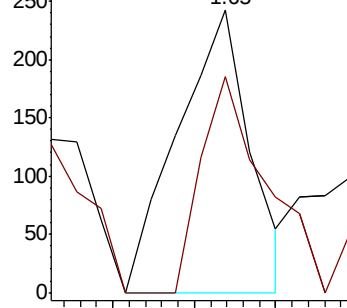
94 100

96 76.1 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.513 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

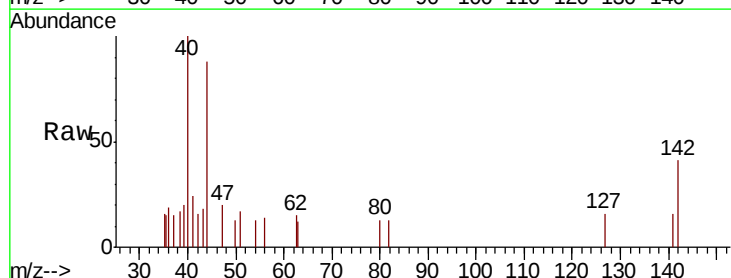
Tgt Ion: 142 Resp: 333

Ion Ratio Lower Upper

142 100

127 27.0 32.8 49.2#

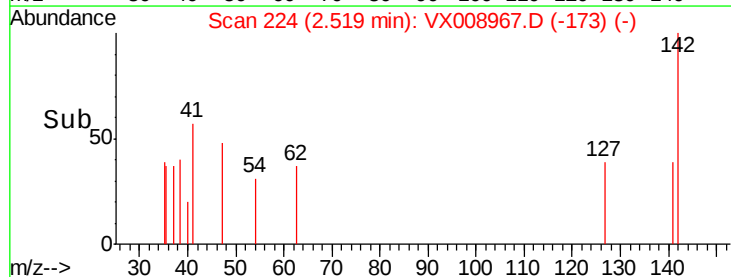
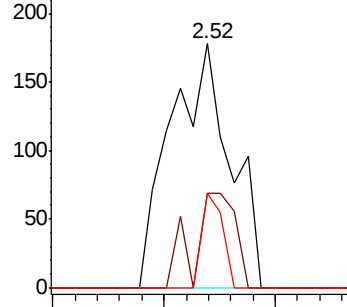
141 13.5 11.4 17.2

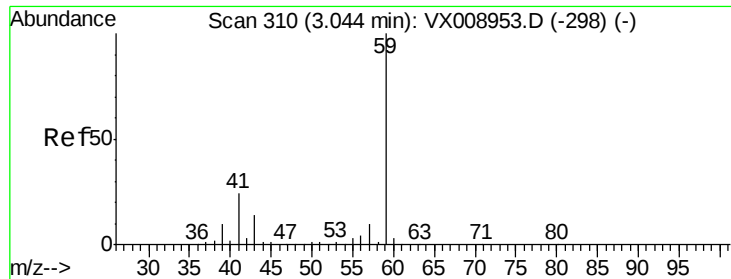


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

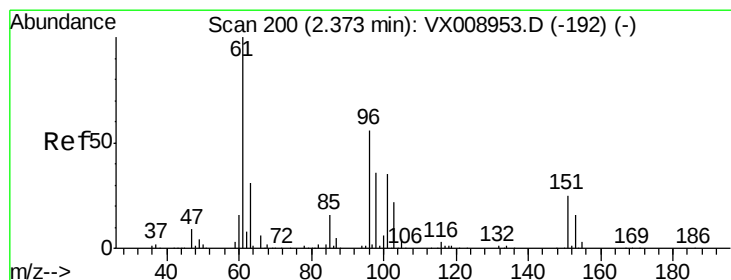
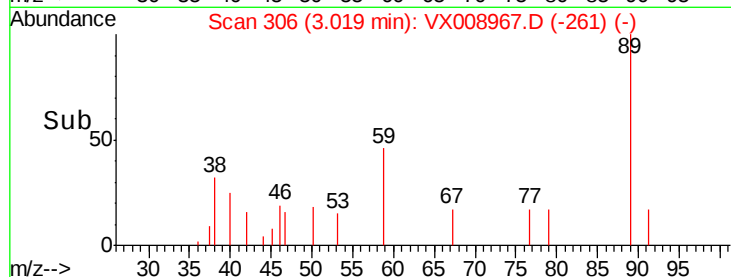
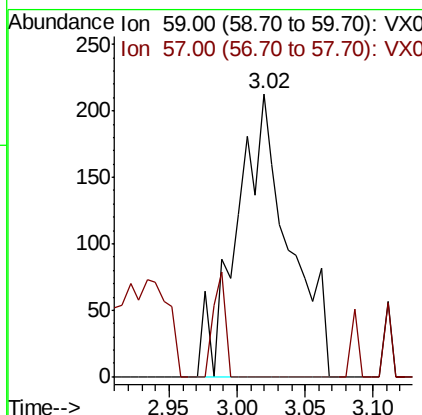
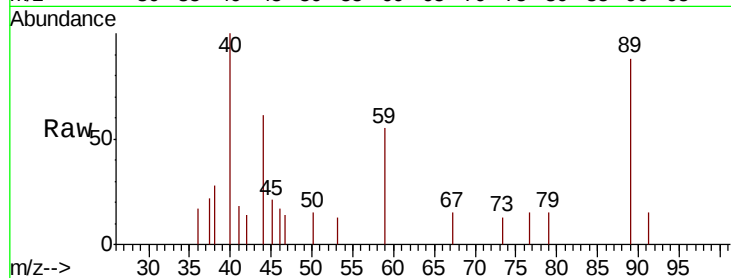




#11
Tert butvl alcohol
Concen: 0.661 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

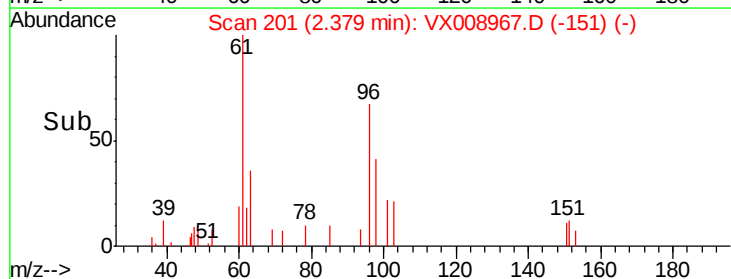
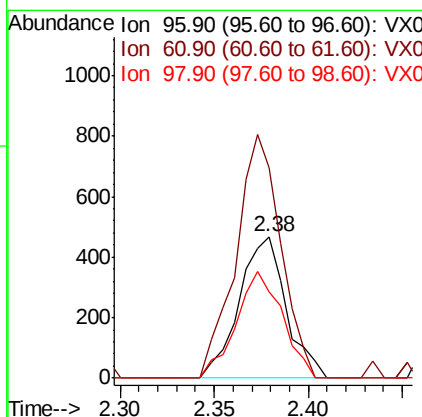
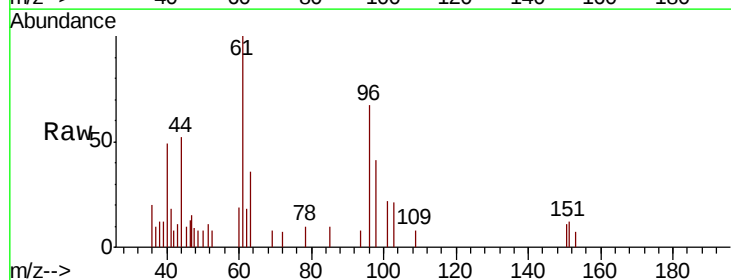
Instrument :
MSVOA_X
ClientSampled :

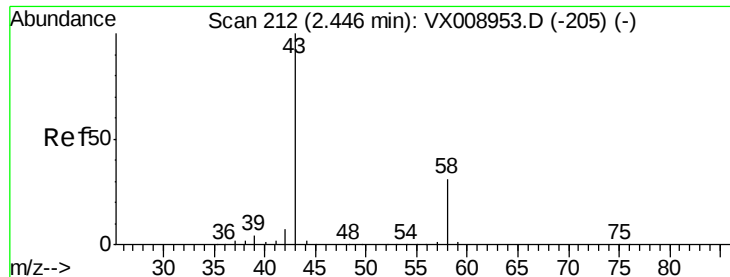
Tot Ion: 59 Resp: 568
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 0.273 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

Tgt Ion: 96 Resp: 803
Ion Ratio Lower Upper
96 100
61 148.6 142.2 213.2
98 60.6 50.9 76.3





#16

Acetone

Concen: 2.186 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

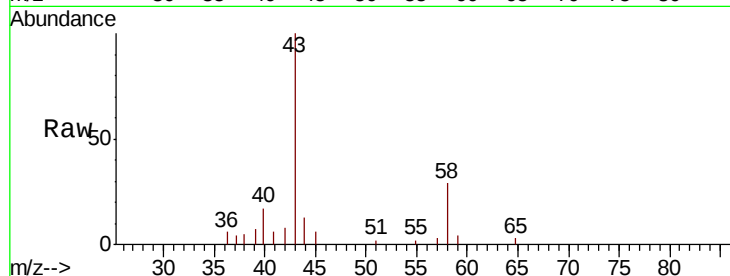
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4386

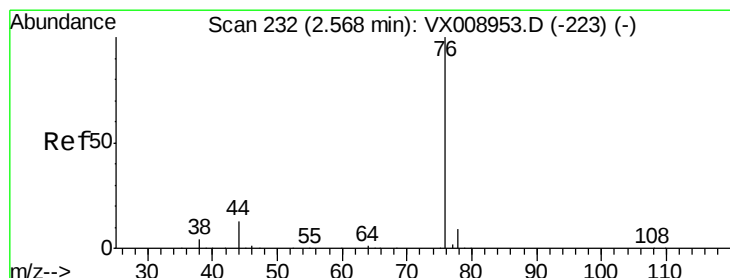
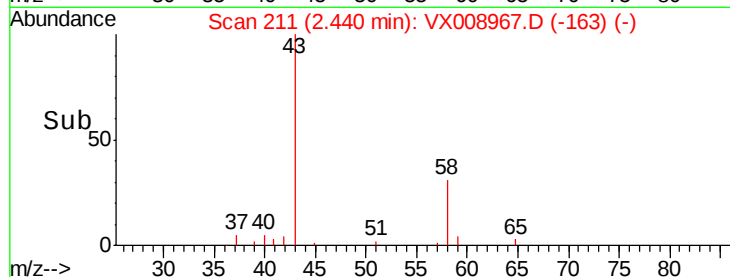
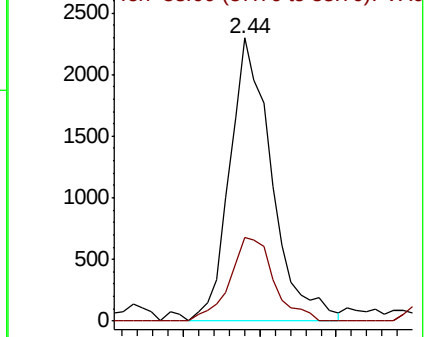
Ion Ratio Lower Upper

43 100

58 29.4 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: 1.348 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008967.D

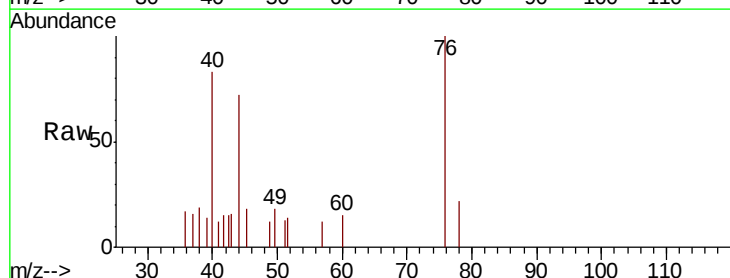
Acq: 15 Apr 2019 17:56

Tgt Ion: 76 Resp: 846

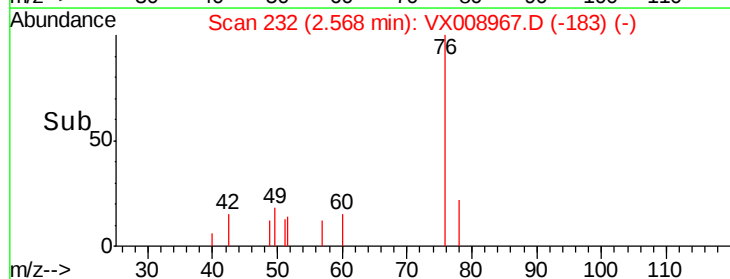
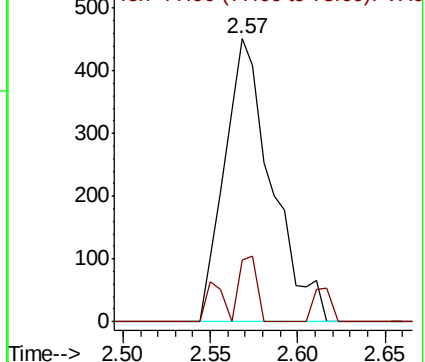
Ion Ratio Lower Upper

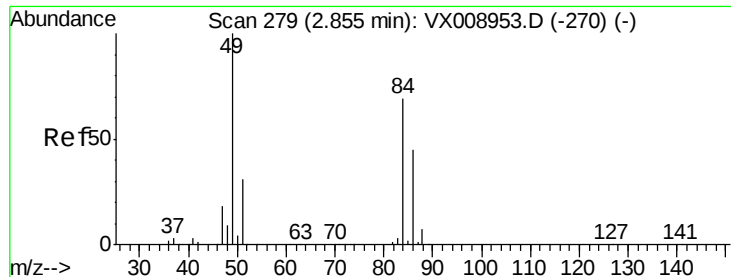
76 100

78 22.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

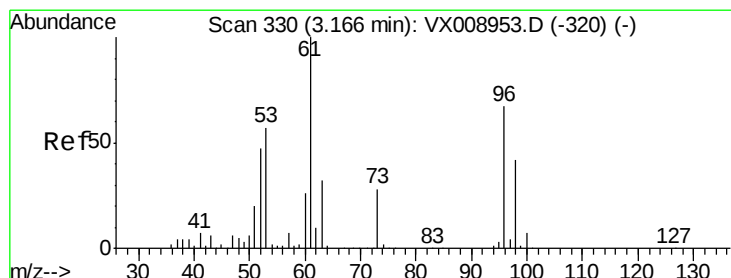
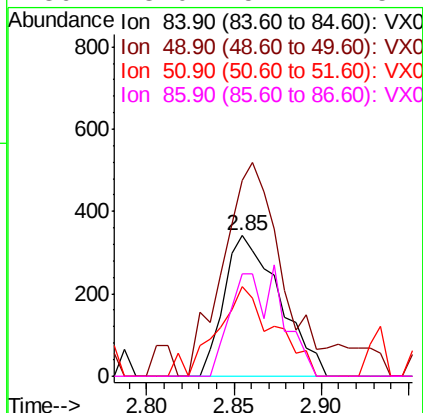
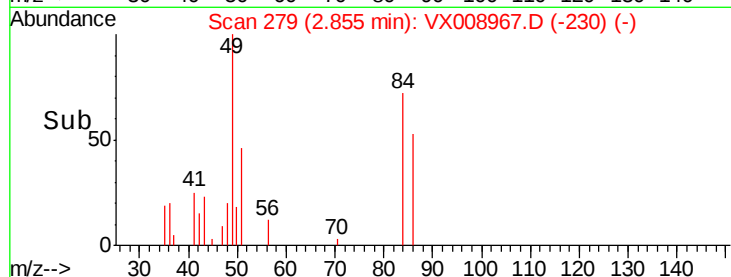
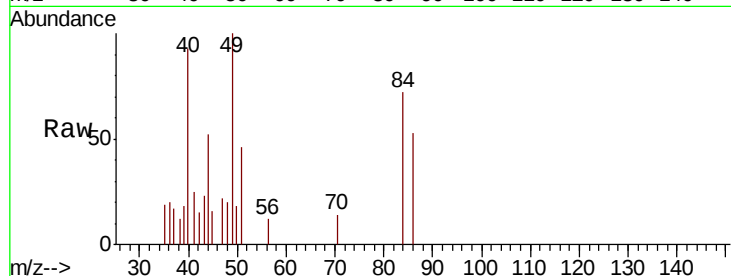




#20
Methvlene Chloride
Concen: 0.220 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

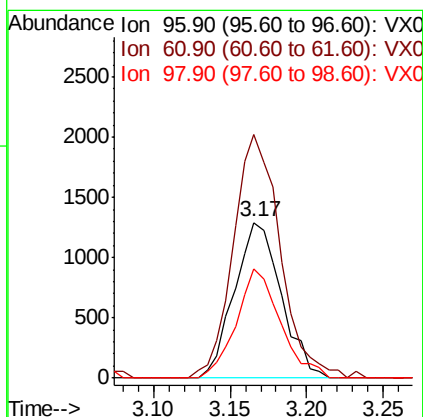
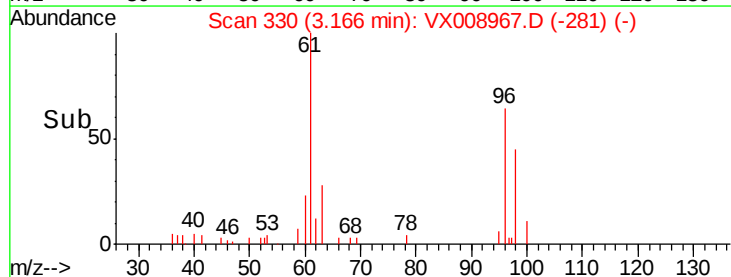
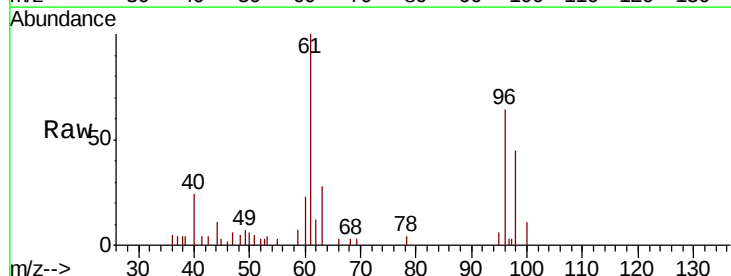
Instrument :
MSVOA_X
ClientSampleId :

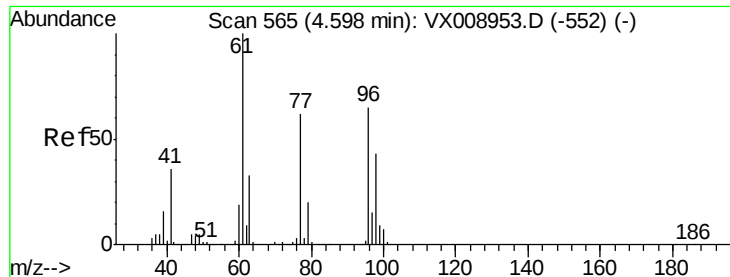
Tot Ion: 84 Resp: 754
Ion Ratio Lower Upper
84 100
49 139.0 115.4 173.0
51 63.3 35.8 53.6#
86 73.0 52.1 78.1



#21
trans-1,2-Dichloroethene
Concen: 0.872 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

Tgt Ion: 96 Resp: 2738
Ion Ratio Lower Upper
96 100
61 156.3 120.3 180.5
98 69.8 50.2 75.2



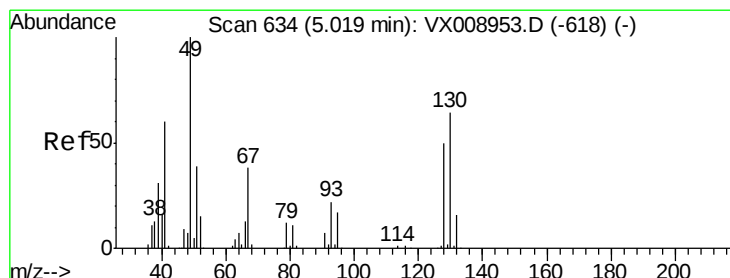
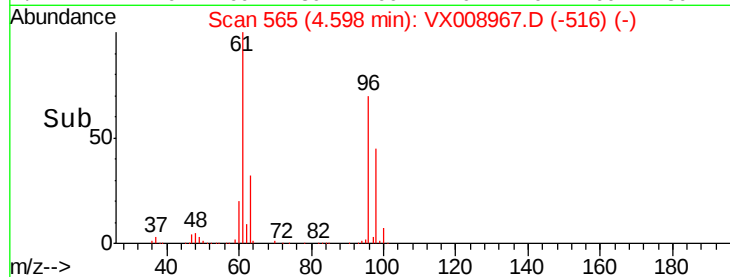
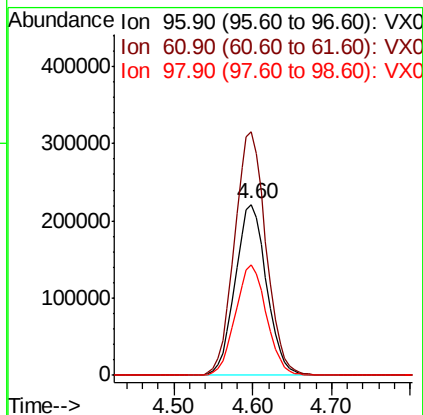
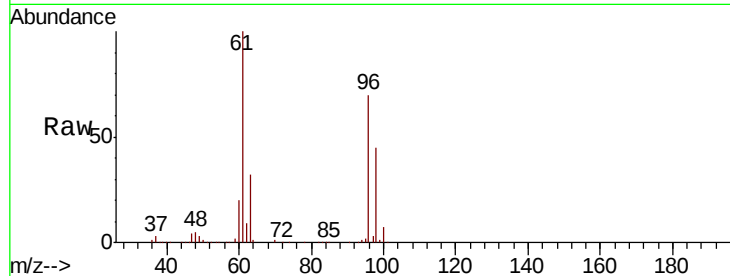


#27

cis-1,2-Dichloroethene
 Concen: 171.512 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008967.D
 Acq: 15 Apr 2019 17:56

Instrument :
 MSVOA_X
 ClientSampleId :

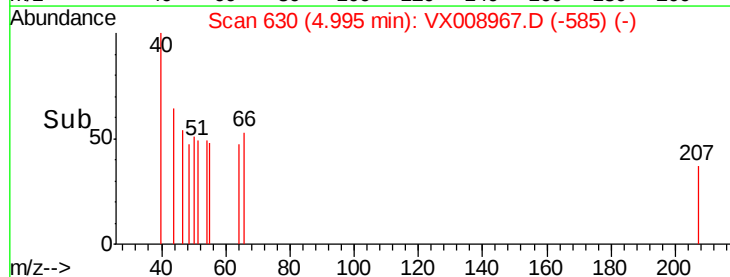
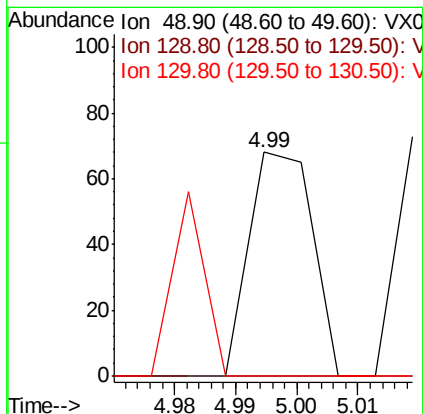
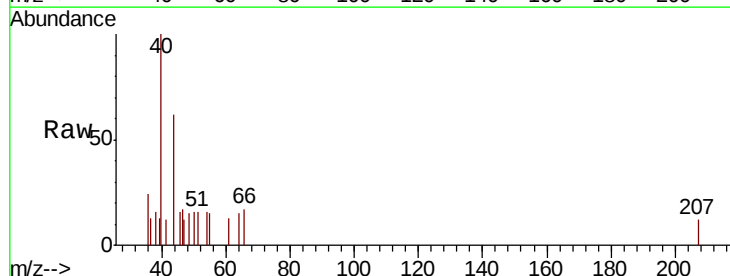
Tot Ion	Ratio	Lower	Upper
96	100		
61	143.4	0.0	322.0
98	64.2	0.0	128.4

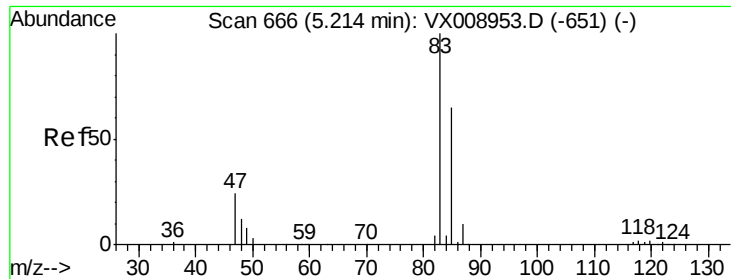


#28

Bromochloromethane
 Concen: Below Cal
 RT: 4.99 min Scan# 630
 Delta R.T. -0.02 min
 Lab File: VX008967.D
 Acq: 15 Apr 2019 17:56

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	40.8	50.4	75.6#

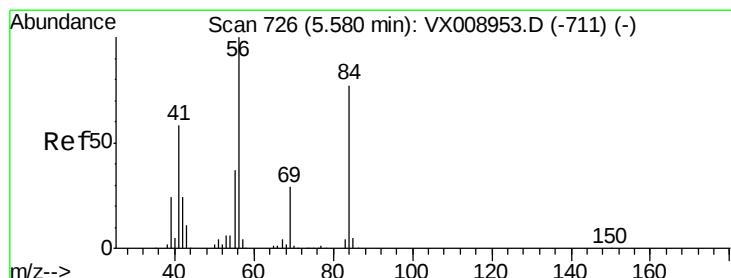
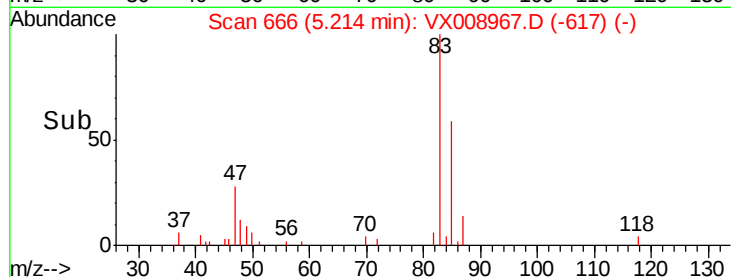
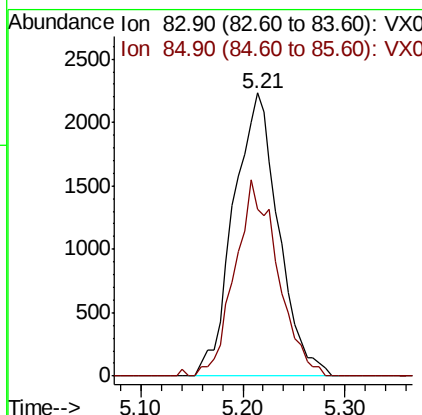
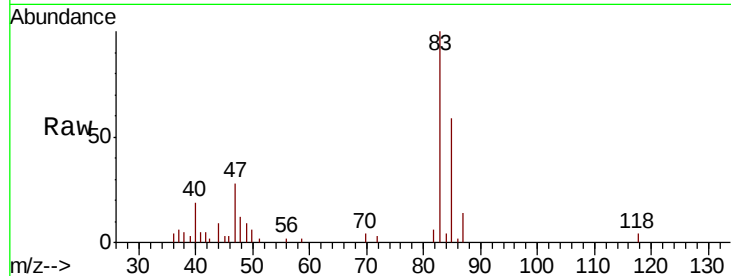




#30
Chloroform
Concen: 1.218 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

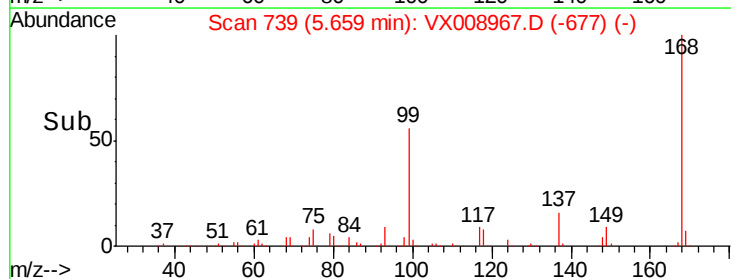
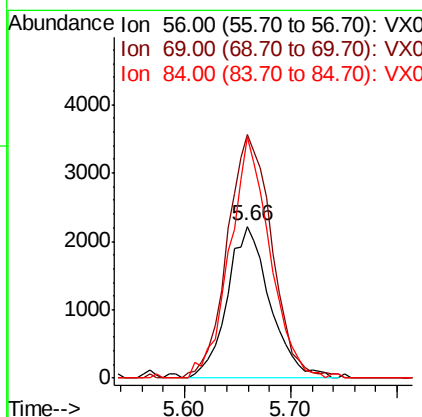
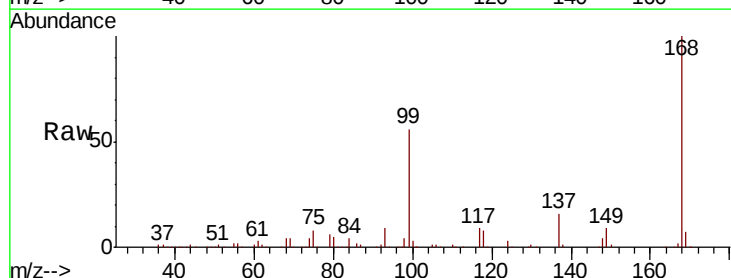
Instrument :
MSVOA_X
ClientSampled :

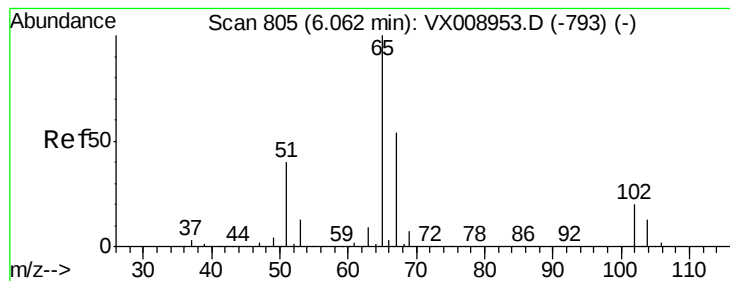
Tot Ion: 83 Resp: 6828
Ion Ratio Lower Upper
83 100
85 59.1 51.9 77.9



#31
Cyclohexane
Concen: 1.011 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

Tgt Ion: 56 Resp: 6228
Ion Ratio Lower Upper
56 100
69 157.6 23.3 34.9#
84 159.1 61.7 92.5#





#33

1,2-Dichloroethane-d4

Concen: 45.629 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

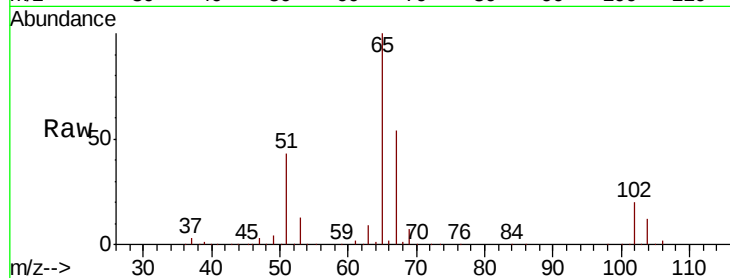
ClientSampleId :

Tot Ion: 65 Resp: 176513

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.6

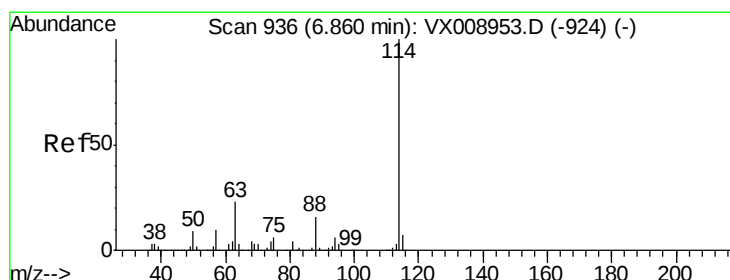
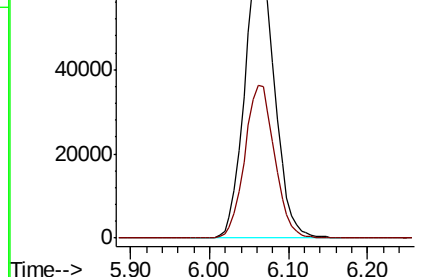
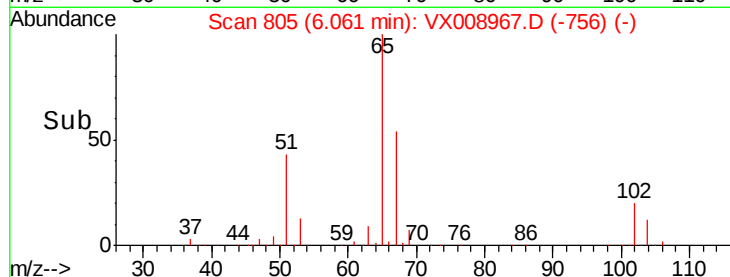


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

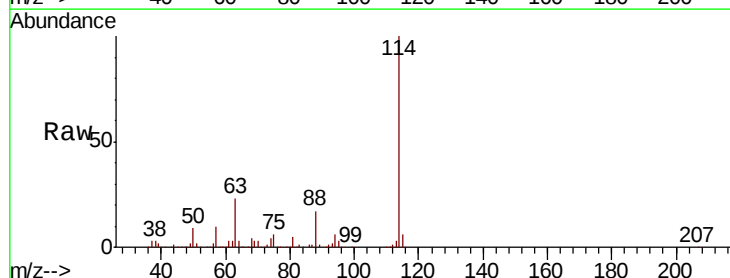
Tgt Ion: 114 Resp: 438493

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.0

88 16.9 0.0 32.6



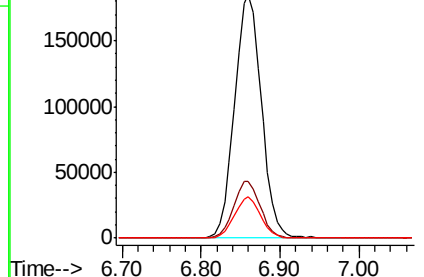
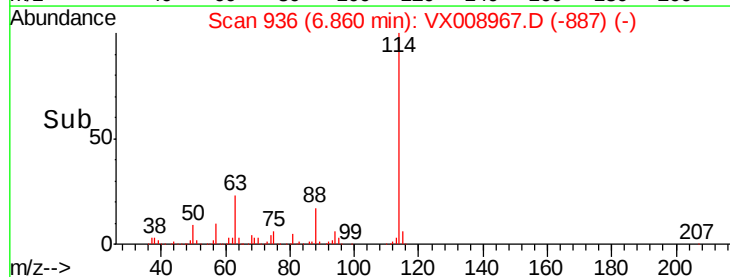
Abundance Ion 113.90 (113.60 to 114.60): V

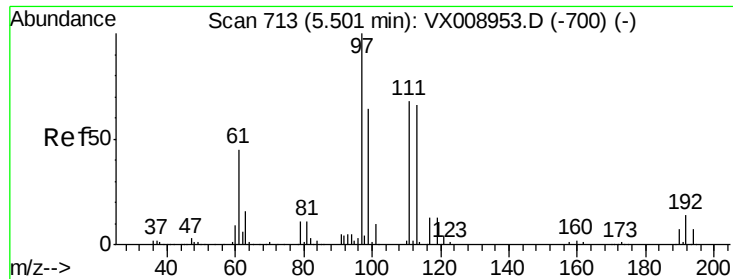
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

Time-->

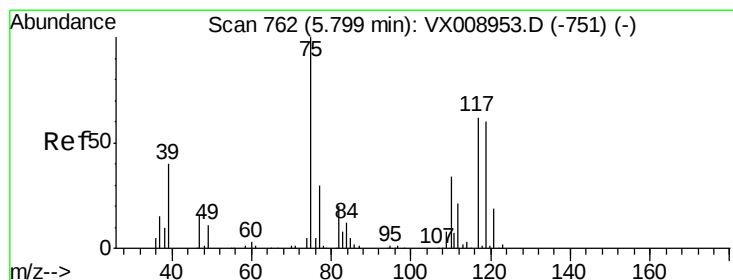
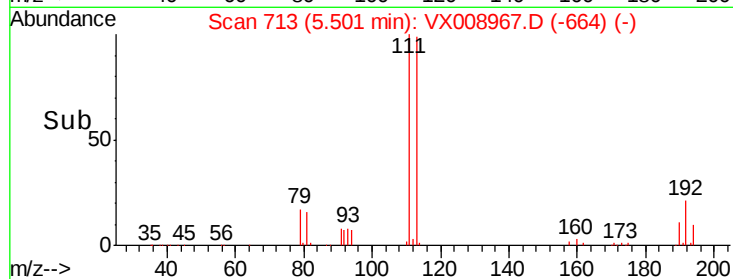
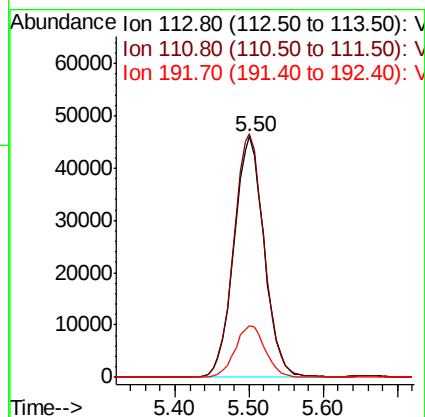
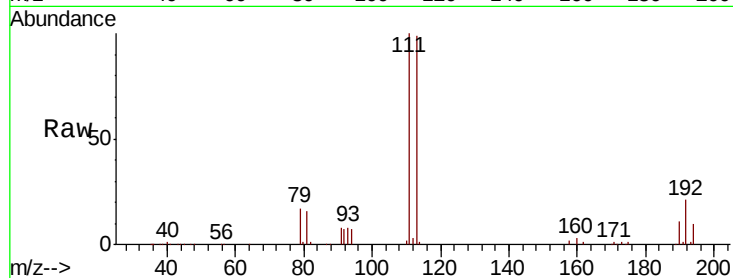




#35
 Dibromofluoromethane
 Concen: 46.508 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008967.D
 Acq: 15 Apr 2019 17:56

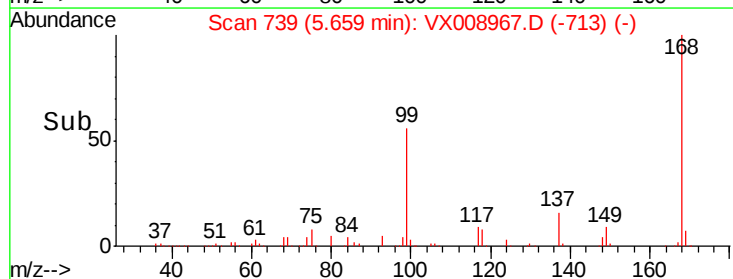
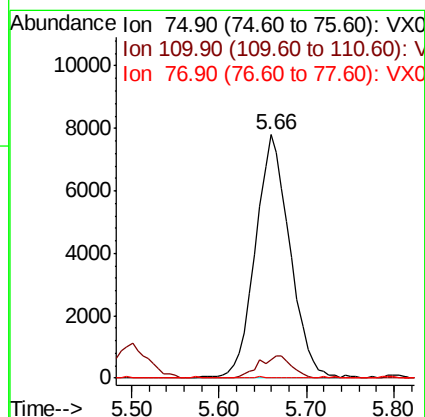
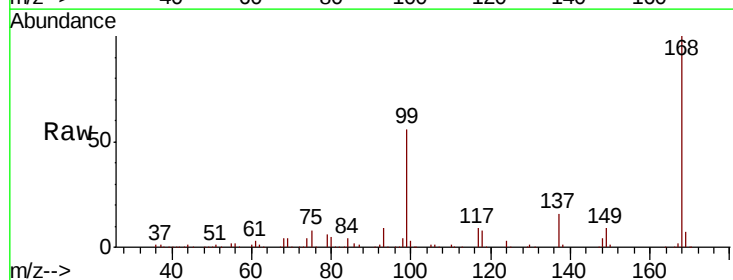
Instrument :
 MSVOA_X
 ClientSampleId :

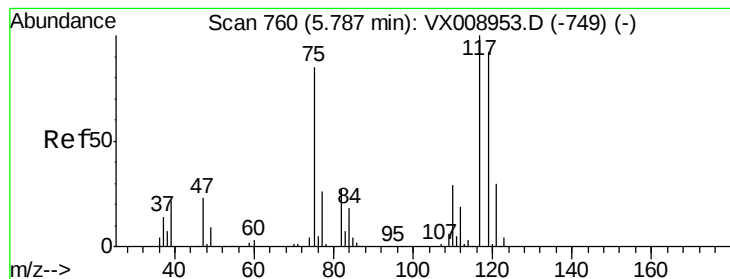
Tot Ion:113 Resp: 130880
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.9 124.3
 192 21.6 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.721 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008967.D
 Acq: 15 Apr 2019 17:56

Tgt Ion: 75 Resp: 21411
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.662 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampled :

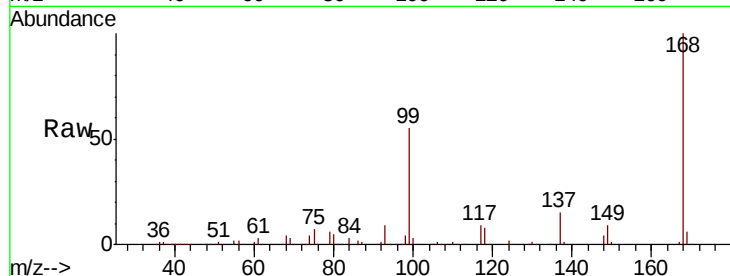
Tot Ion:117 Resp: 25611

Ion Ratio Lower Upper

117 100

119 4.5 73.8 110.8#

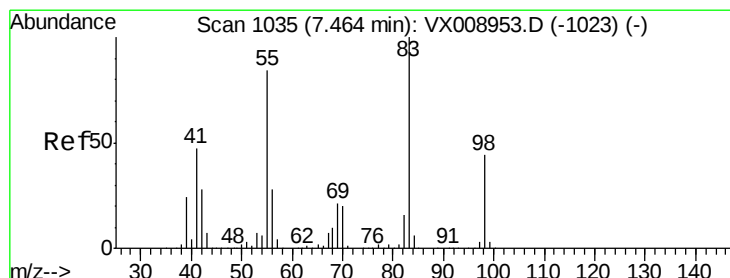
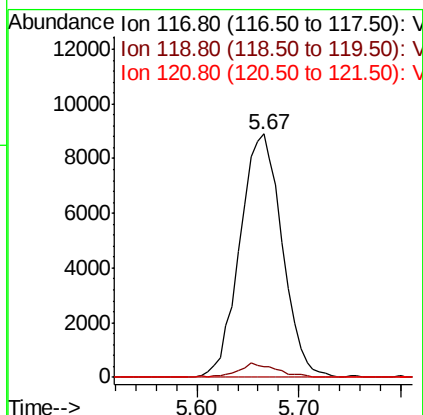
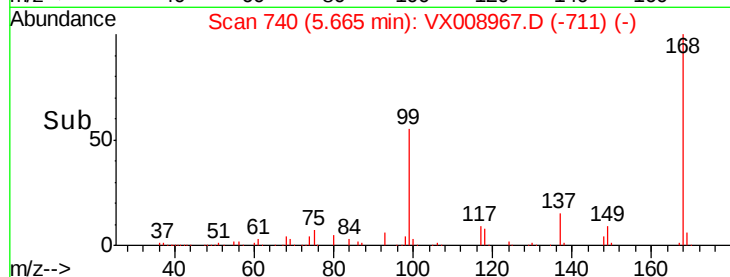
121 0.0 23.6 35.4#



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



#39

Methylcyclohexane

Concen: 1.394 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

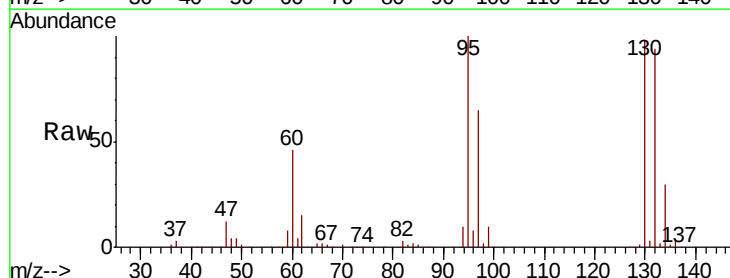
Tgt Ion: 83 Resp: 7699

Ion Ratio Lower Upper

83 100

55 0.0 67.1 100.7#

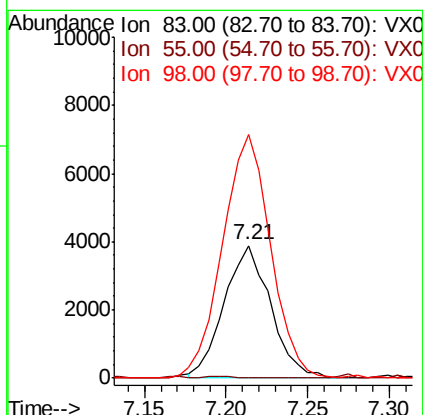
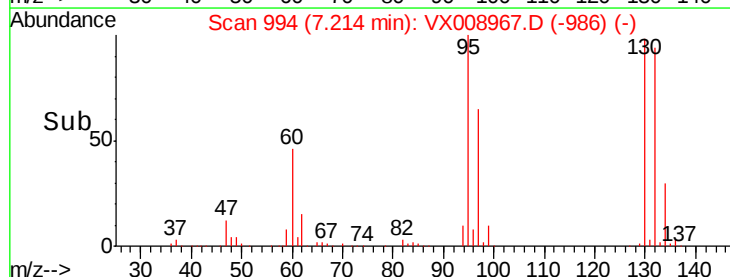
98 183.5 35.1 52.7#

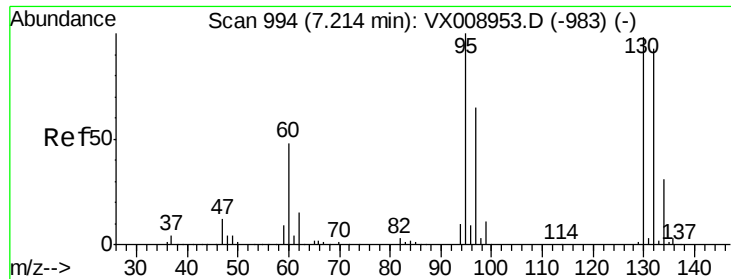


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 182.461 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

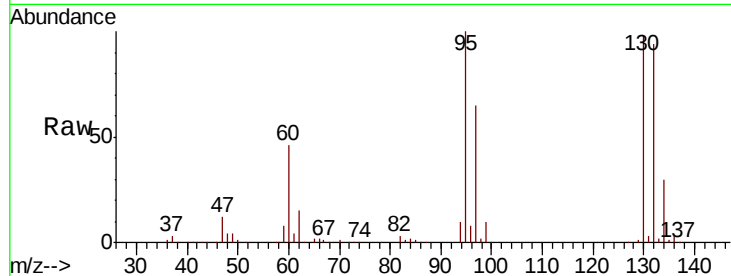
ClientSampleId :

Tot Ion:130 Resp: 598105

Ion Ratio Lower Upper

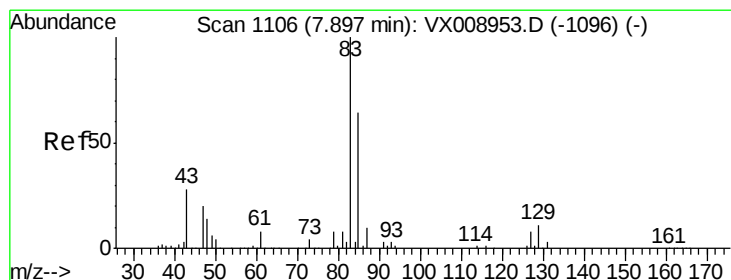
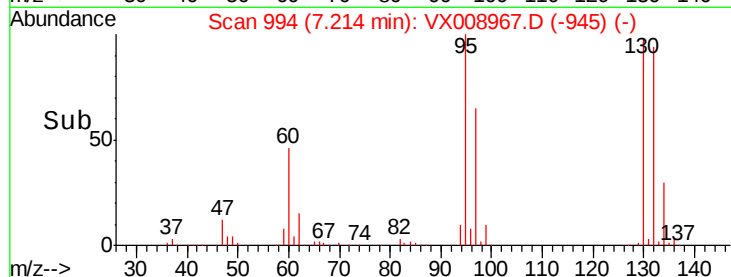
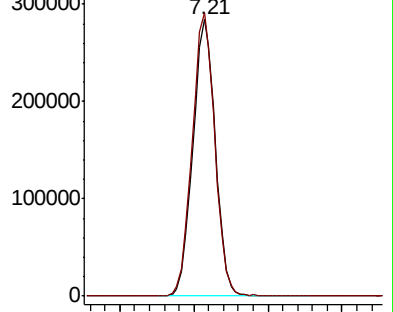
130 100

95 102.2 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#47

Bromodichloromethane

Concen: 0.589 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

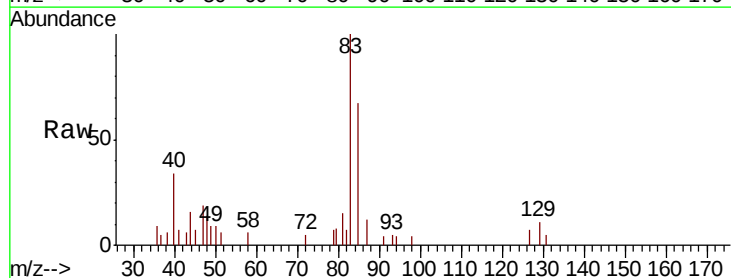
Tgt Ion: 83 Resp: 2494

Ion Ratio Lower Upper

83 100

85 66.5 50.8 76.2

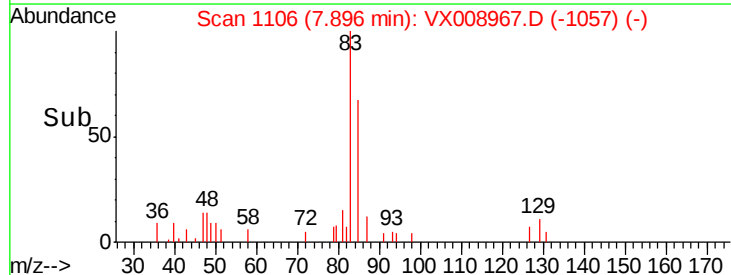
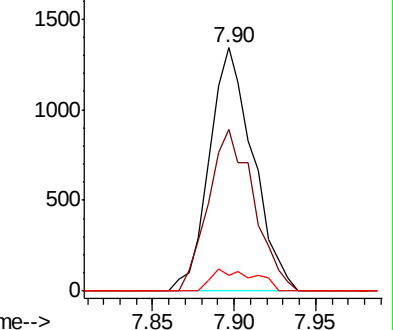
127 6.7 6.4 9.6

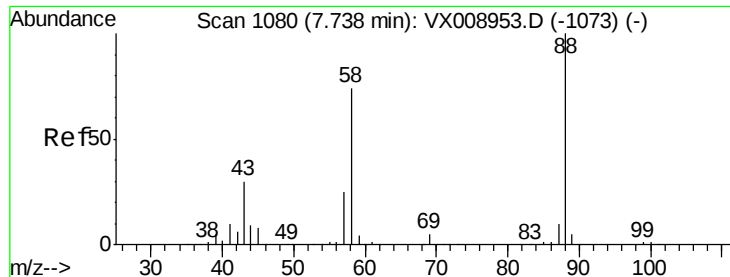


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 0.241 ug/l

RT: 7.79 min Scan# 1089

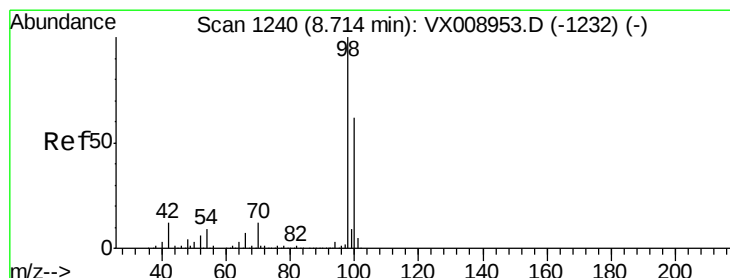
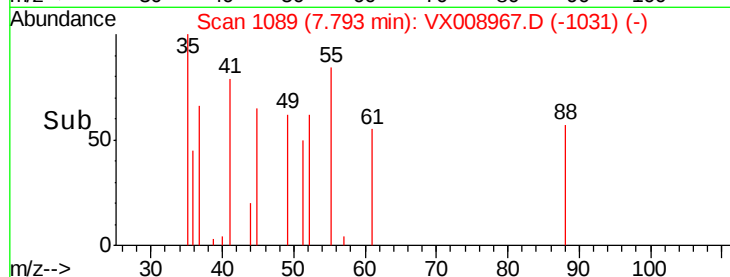
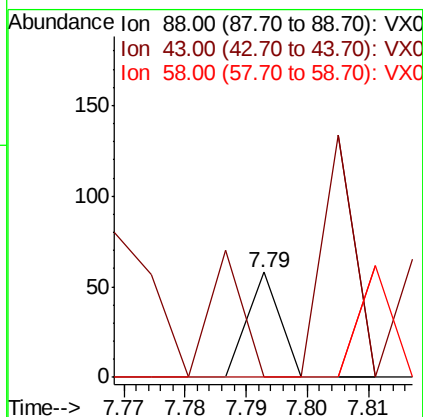
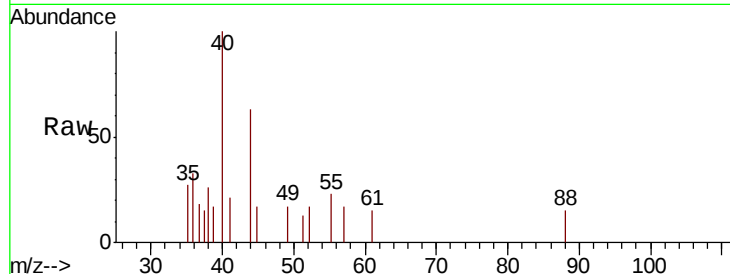
Delta R.T. 0.05 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	88	Resp:	21
Ion	Ratio	Lower	Upper
88	100		
43	233.3	29.3	43.9#
58	109.5	62.6	93.8#



#50

Toluene-d8

Concen: 48.678 ug/l

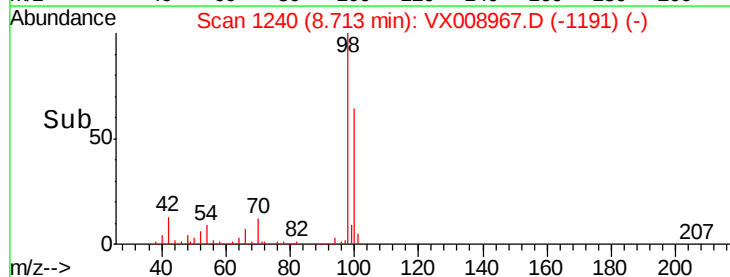
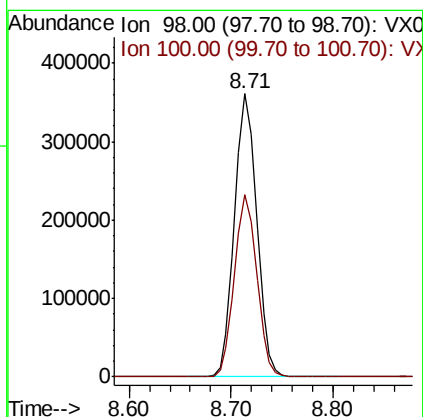
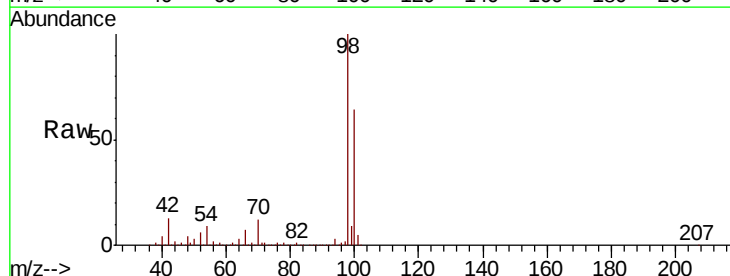
RT: 8.71 min Scan# 1240

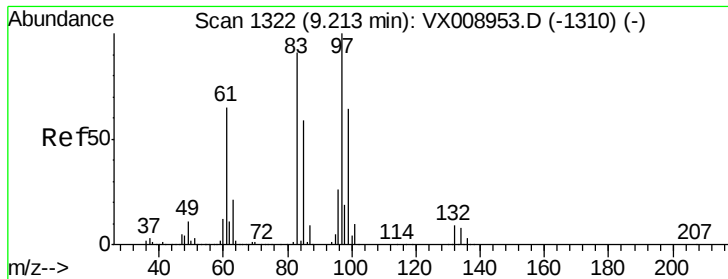
Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Tgt Ion:	98	Resp:	546315
Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.4	77.2





#55

1,1,2-Trichloroethane

Concen: 5.094 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 97 Resp: 16187

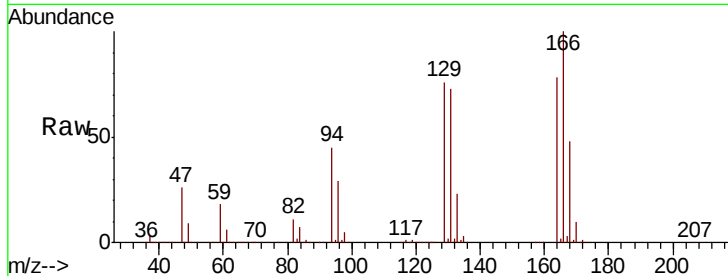
Ion Ratio Lower Upper

97 100

83 312.9 72.6 108.8#

85 45.0 46.9 70.3#

99 16.1 51.0 76.6#



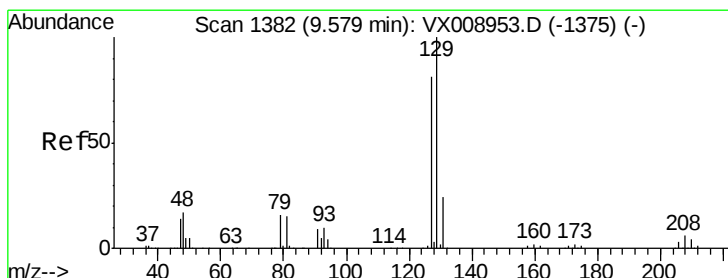
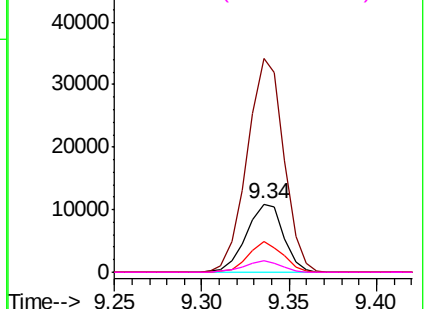
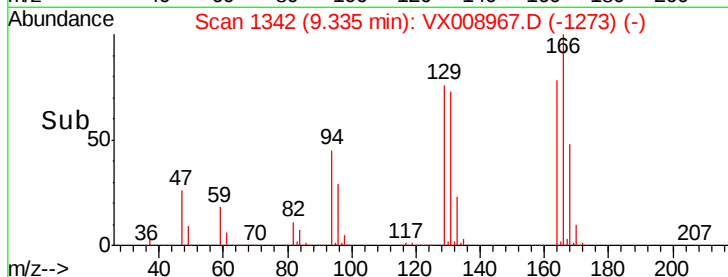
Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 630.839 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008967.D

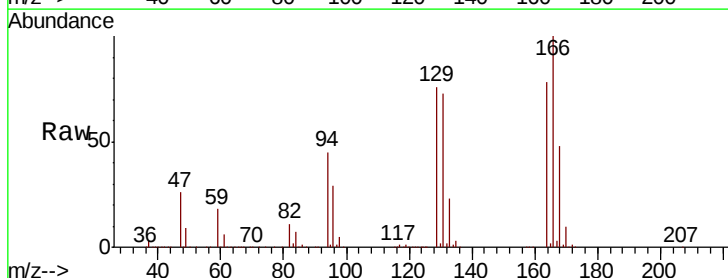
Acq: 15 Apr 2019 17:56

Tgt Ion:129 Resp: 1921279

Ion Ratio Lower Upper

129 100

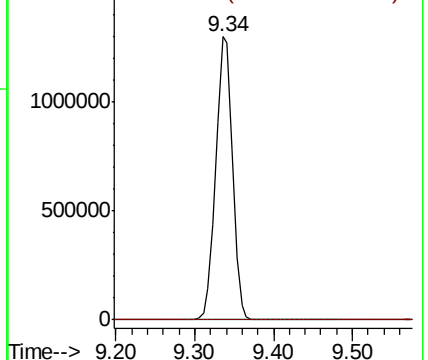
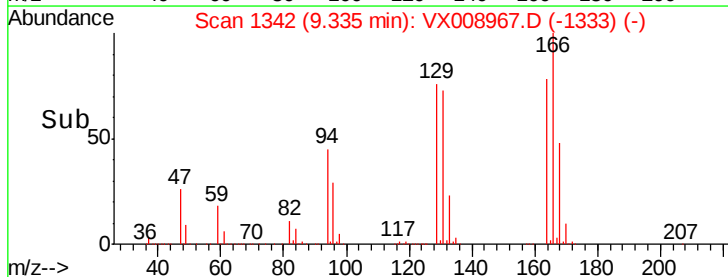
127 0.0 39.1 117.2#

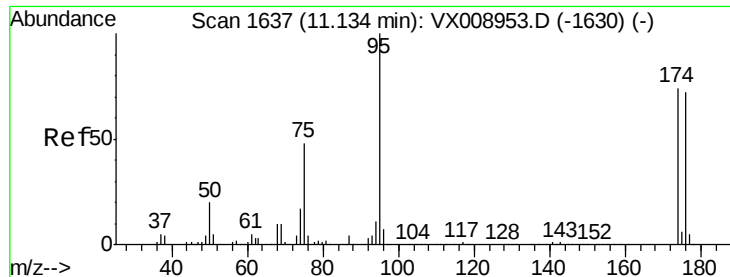


Abundance

Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 47.176 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

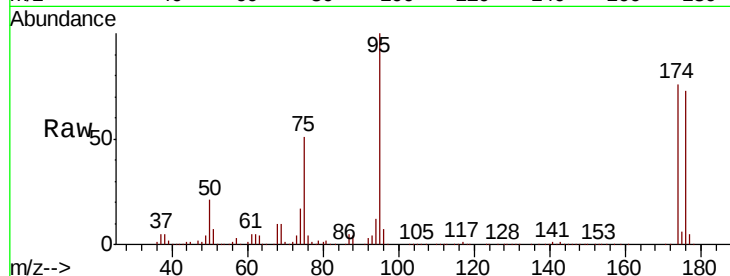
Tot Ion: 95 Resp: 186898

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.6

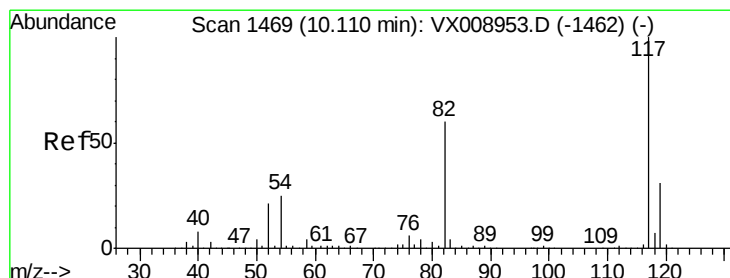
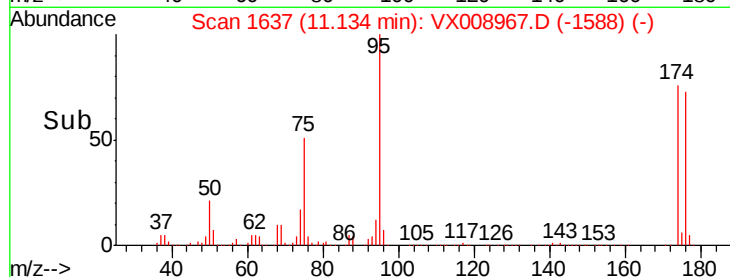
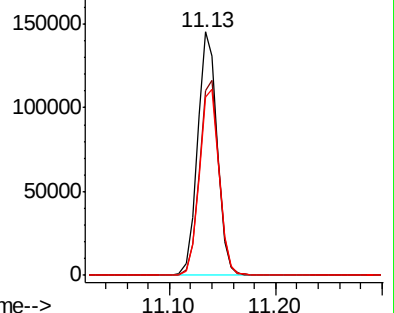
176 77.1 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

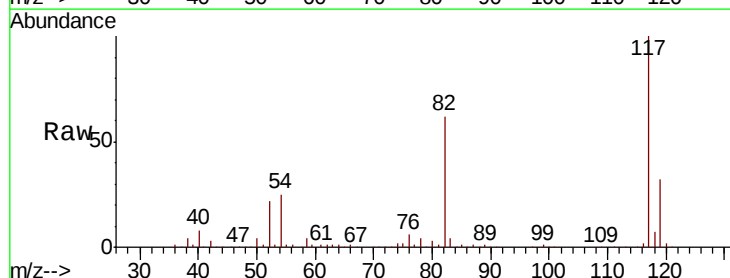
Tgt Ion: 117 Resp: 380802

Ion Ratio Lower Upper

117 100

82 62.5 48.2 72.4

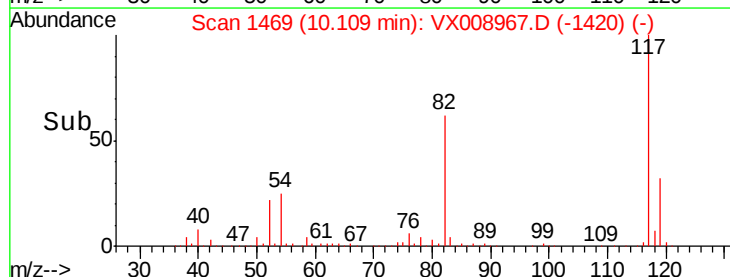
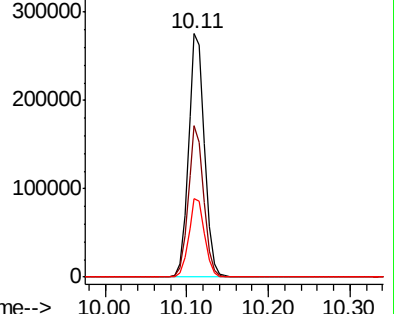
119 32.5 25.0 37.6

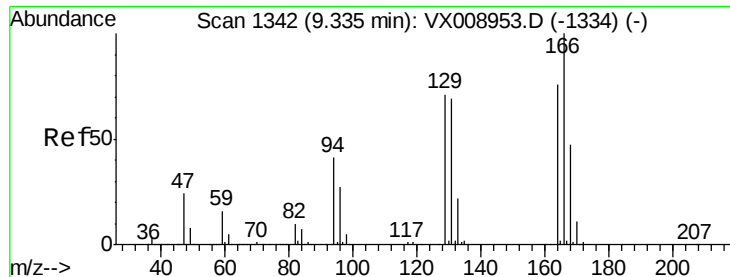


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)

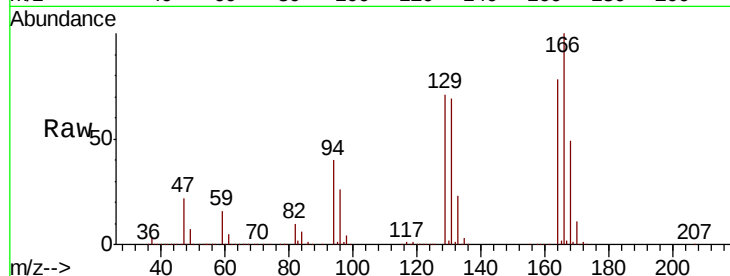




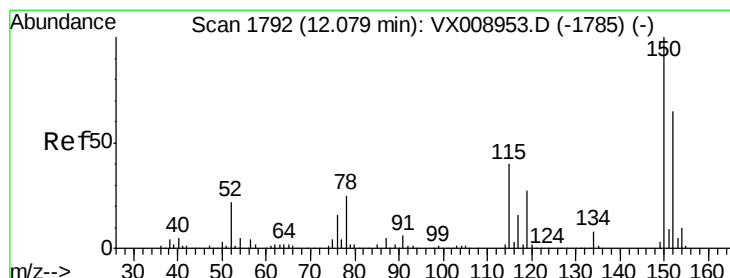
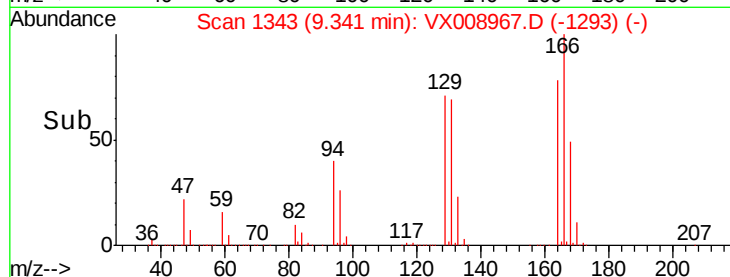
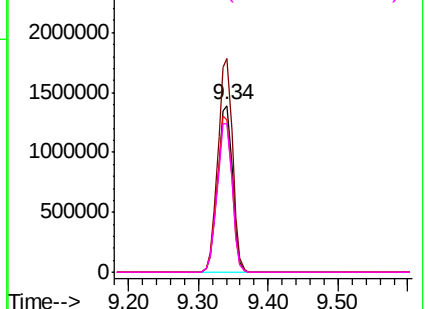
#64
Tetrachloroethene
Concen: 706.087 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:164 Resp: 2042624
Ion Ratio Lower Upper
164 100
166 128.1 105.0 157.4
129 91.5 74.2 111.4
131 88.9 72.2 108.2

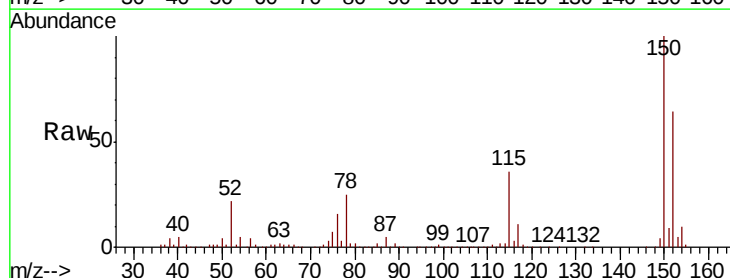


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

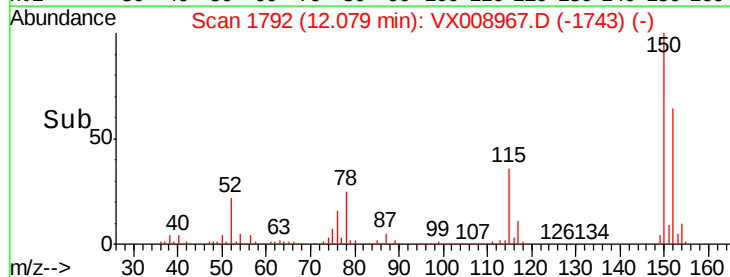
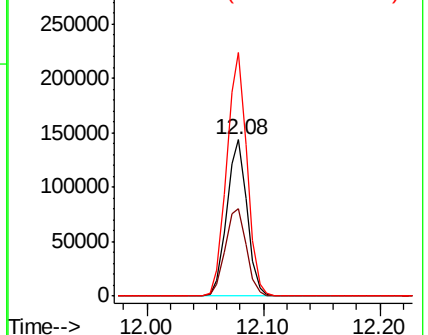


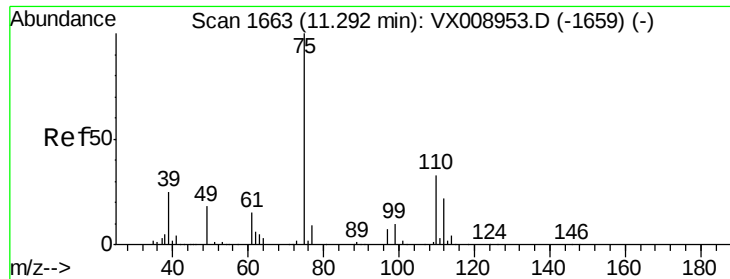
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008967.D
Acq: 15 Apr 2019 17:56

Tgt Ion:152 Resp: 172552
Ion Ratio Lower Upper
152 100
115 58.9 41.4 124.2
150 156.2 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: 22.437 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

Instrument :

MSVOA_X

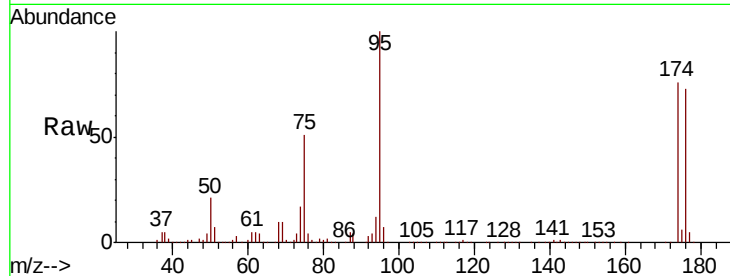
ClientSampleId :

Tot Ion: 75 Resp: 94535

Ion Ratio Lower Upper

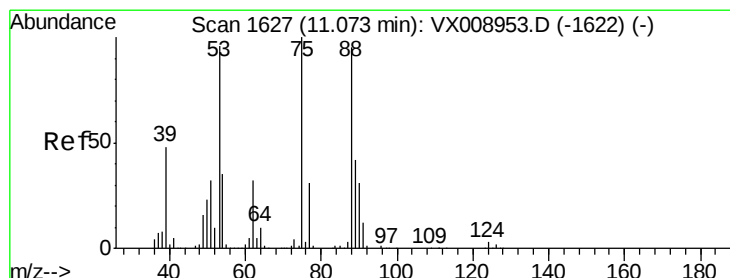
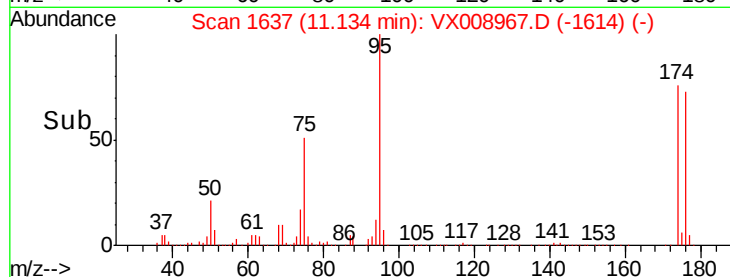
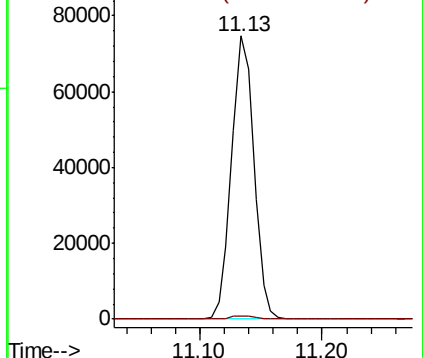
75 100

77 1.3 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: 57.602 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008967.D

Acq: 15 Apr 2019 17:56

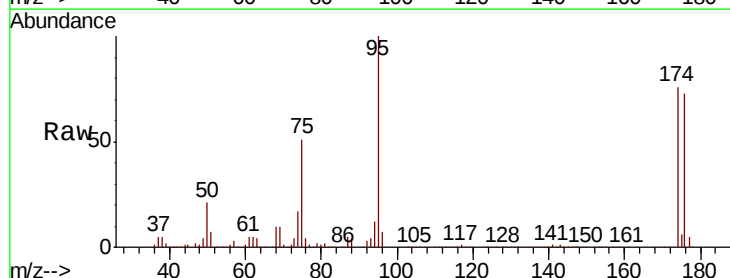
Tgt Ion: 75 Resp: 94535

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

