

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042519\
 Data File : VX009166.D
 Acq On : 25 Apr 2019 16:42
 Operator : JC/SP
 Sample : K2566-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0013

Quant Time: Apr 26 04:39:27 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	208565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335393	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126036	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	138631	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
35) Dibromofluoromethane	5.50	113	101805	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	8.71	98	419234	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.13	95	140478	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	

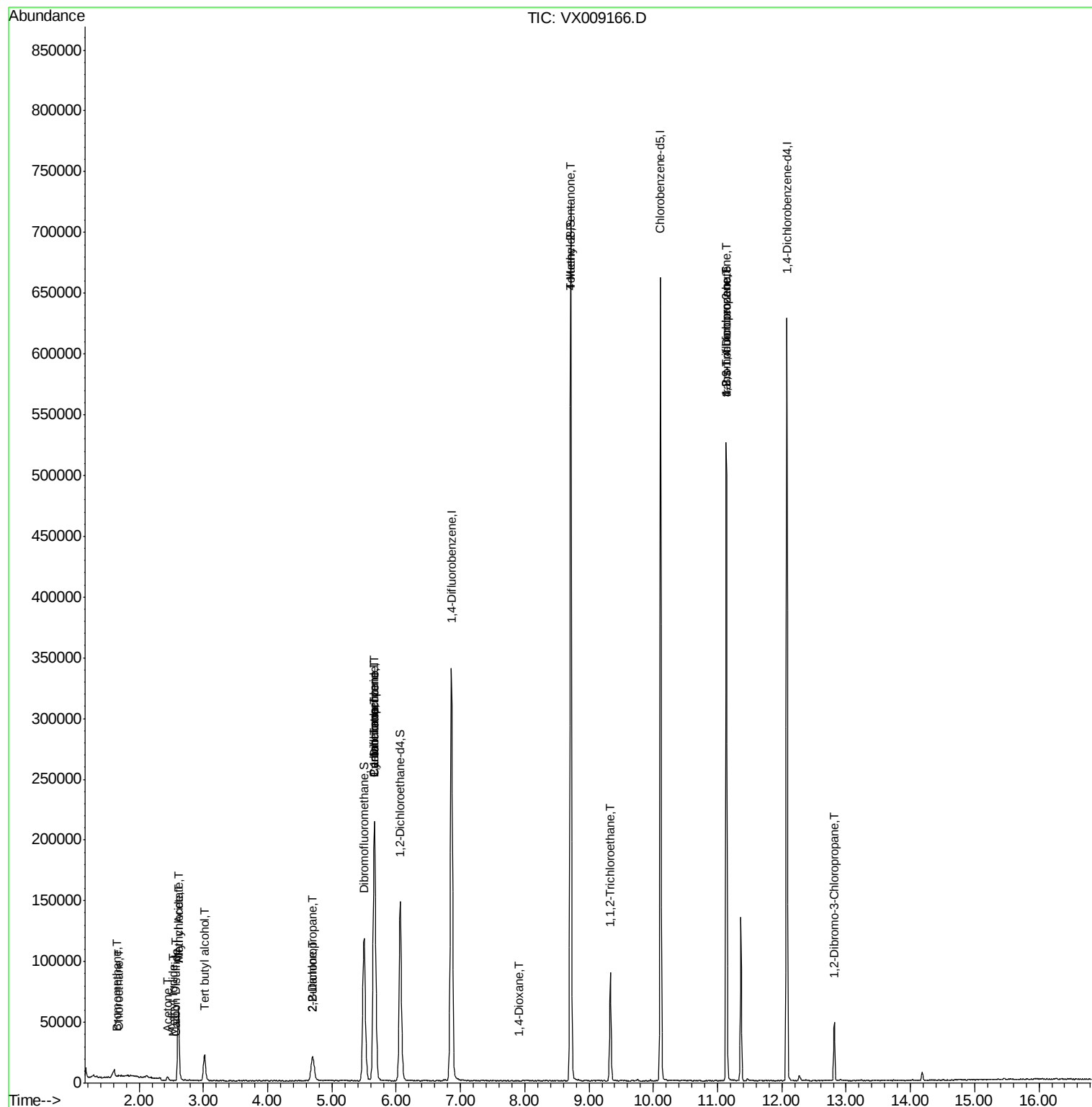
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	199	3.950	ug/l #	28
6) Chloroethane	1.68	64	2127	1.260	ug/l #	62
10) Methyl Iodide	2.53	142	22	4.423	ug/l #	42
11) Tert butyl alcohol	3.02	59	13573	20.803	ug/l #	79
14) Allyl chloride	2.61	41	6331	1.297	ug/l #	61
16) Acetone	2.44	43	3672	2.409	ug/l	99
17) Carbon Disulfide	2.56	76	500	1.327	ug/l #	56
18) Methyl Acetate	2.61	43	15868	4.171	ug/l #	55
25) 2-Butanone	4.70	43	1415	0.581	ug/l #	85
26) 2,2-Dichloropropane	4.69	77	1849	0.518	ug/l #	52
28) Bromochloromethane	5.02	49	22	Below Cal	#	21
31) Cyclohexane	5.65	56	4099	0.876	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16812	4.847	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19866	6.756	ug/l #	18
49) 1,4-Dioxane	7.91	88	20	0.301	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	2258	0.493	ug/l #	1
55) 1,1,2-Trichloroethane	9.32	97	498	0.205	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	71621	23.272	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	71621	59.746	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.81	75	1160	1.460	ug/l #	12

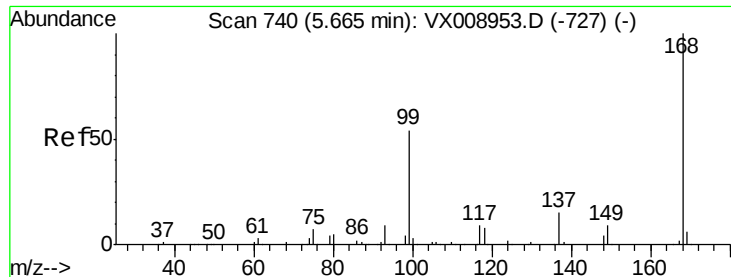
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 17 06:47:58 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: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

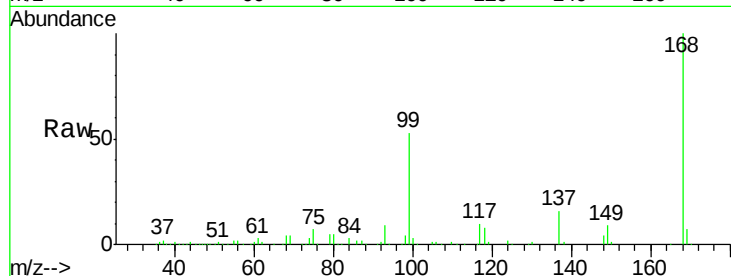
S37-0013

Tot Ion:168 Resp: 208565

Ion Ratio Lower Upper

168 100

99 53.4 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

80000

60000

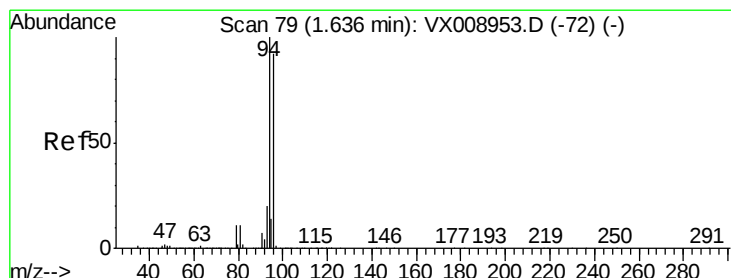
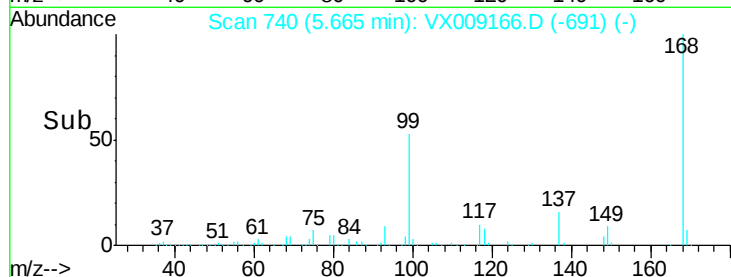
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.950 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009166.D

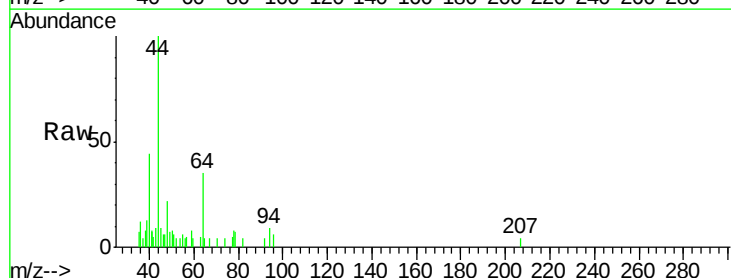
Acq: 25 Apr 2019 16:42

Tgt Ion: 94 Resp: 199

Ion Ratio Lower Upper

94 100

96 23.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

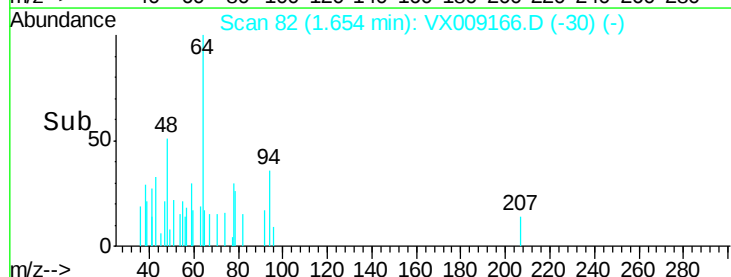
100

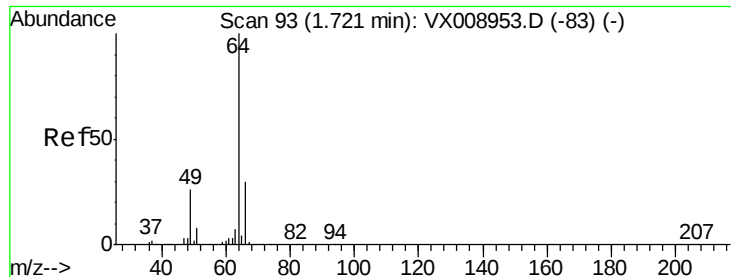
50

0

Time-->

1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 1.260 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

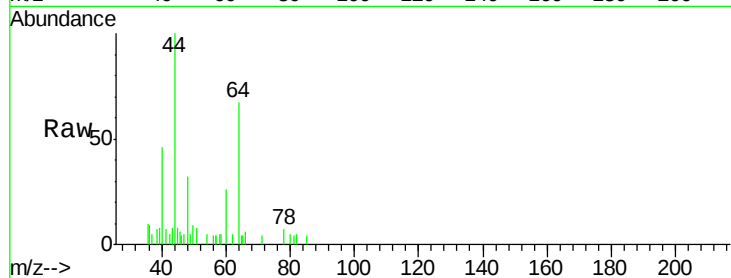
S37-0013

Tot Ion: 64 Resp: 2127

Ion Ratio Lower Upper

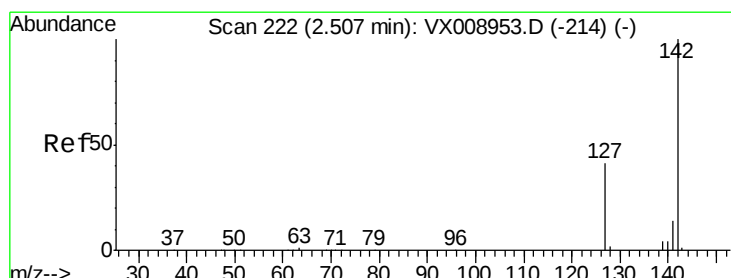
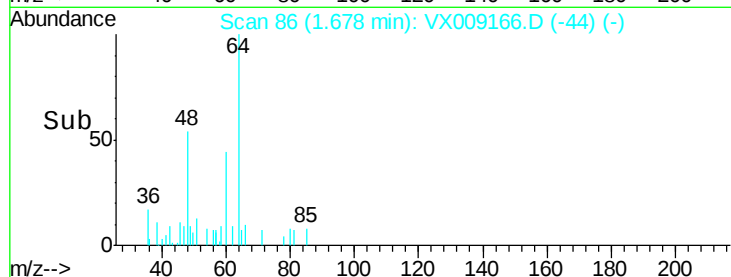
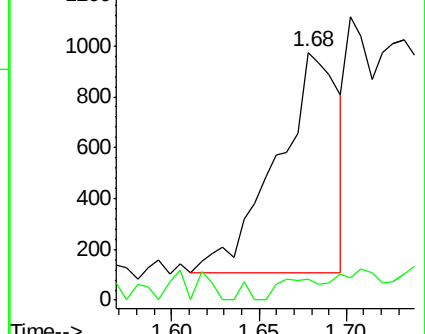
64 100

66 9.6 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.423 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

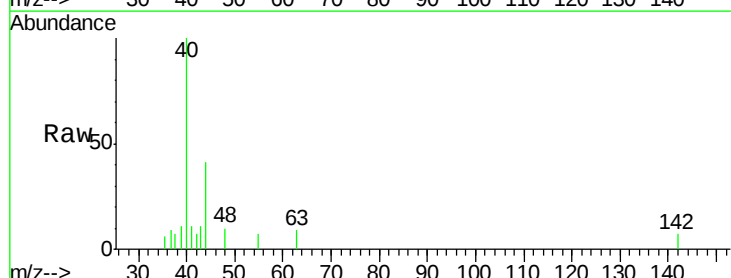
Tgt Ion: 142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

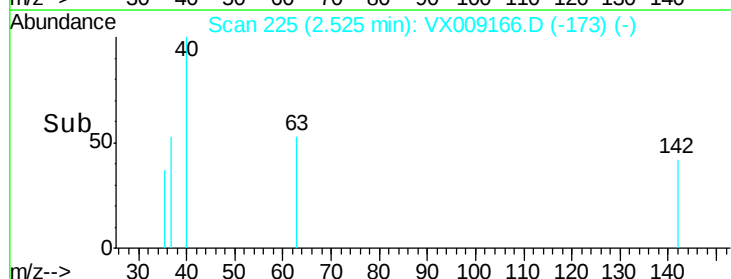
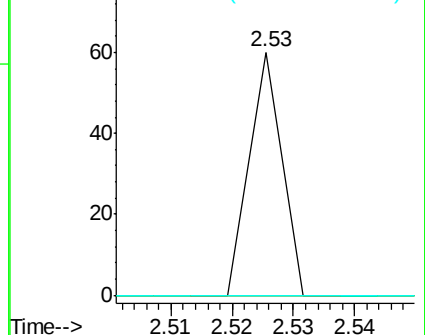
141 0.0 11.4 17.2#

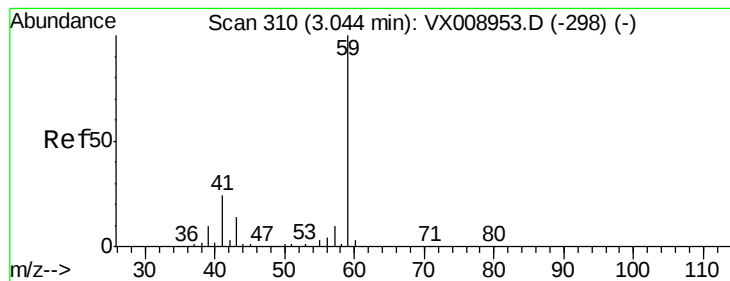


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



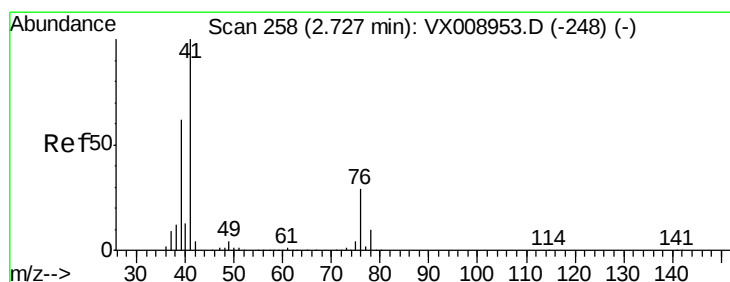
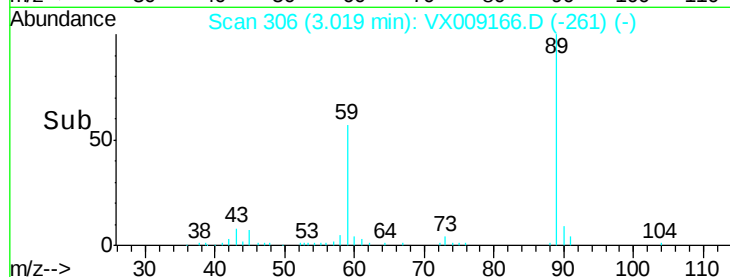
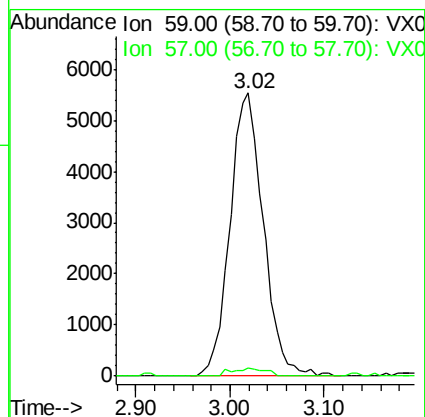
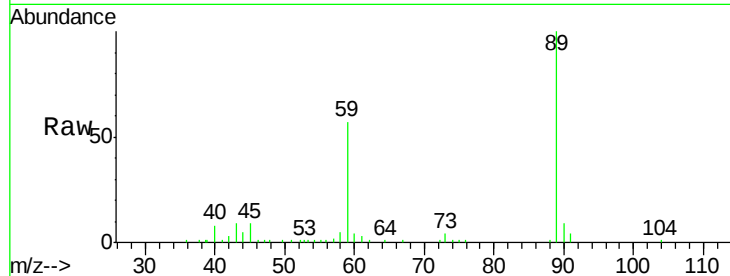


#11

Tert butyl alcohol
 Concen: 20.803 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX009166.D
 Acq: 25 Apr 2019 16:42

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0013

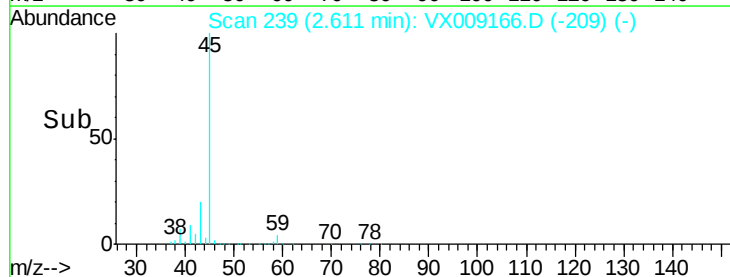
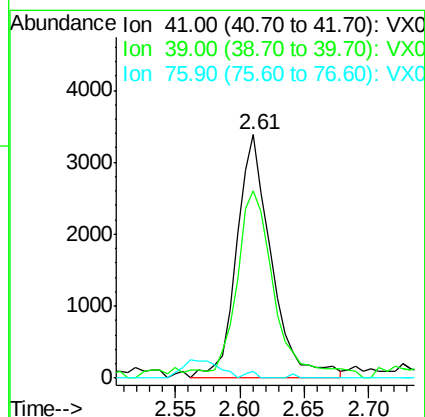
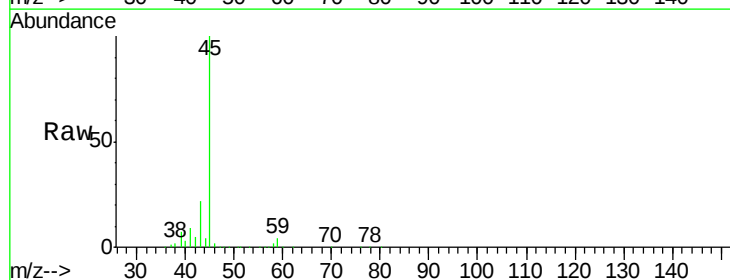
Tot Ion: 59 Resp: 13573
 Ion Ratio Lower Upper
 59 100
 57 2.8 8.4 12.6#

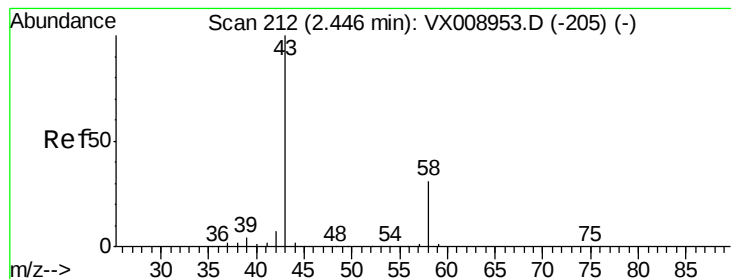


#14

Allyl chloride
 Concen: 1.297 ug/l
 RT: 2.61 min Scan# 239
 Delta R.T. -0.12 min
 Lab File: VX009166.D
 Acq: 25 Apr 2019 16:42

Tgt Ion: 41 Resp: 6331
 Ion Ratio Lower Upper
 41 100
 39 82.9 46.7 70.1#
 76 0.9 22.0 33.0#





#16

Acetone

Concen: 2.409 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

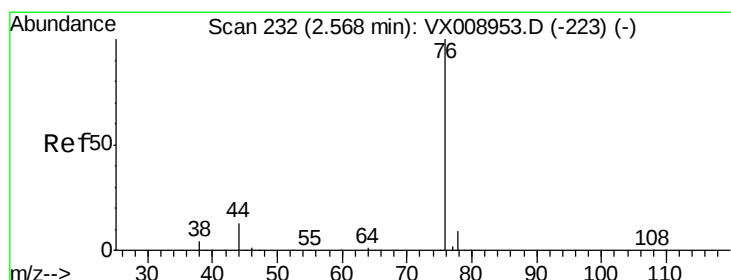
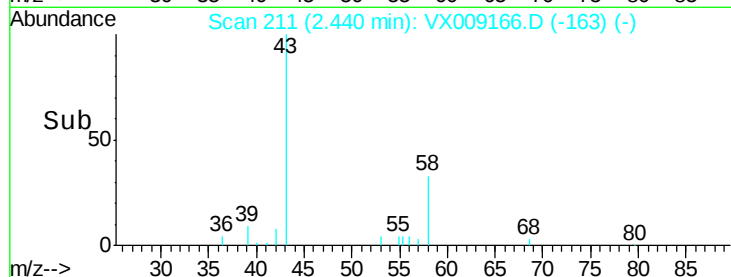
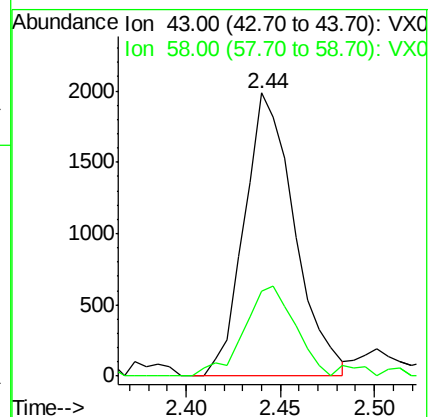
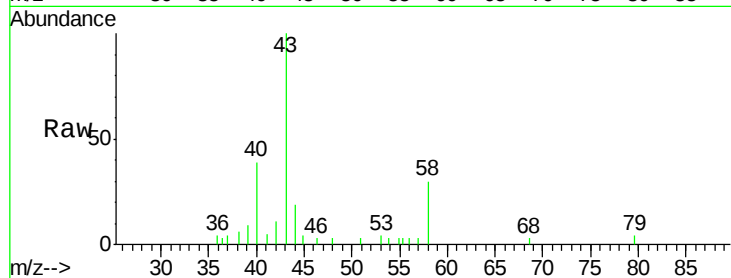
S37-0013

Tot Ion: 43 Resp: 3672

Ion Ratio Lower Upper

43 100

58 30.2 24.8 37.2



#17

Carbon Disulfide

Concen: 1.327 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009166.D

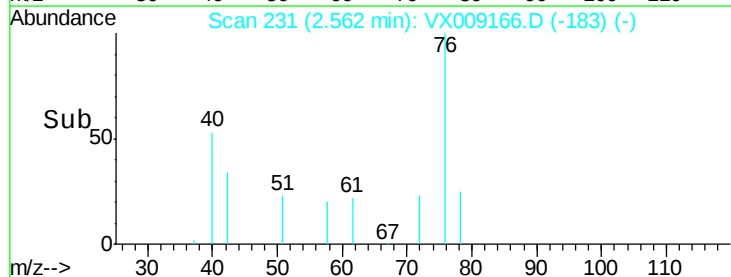
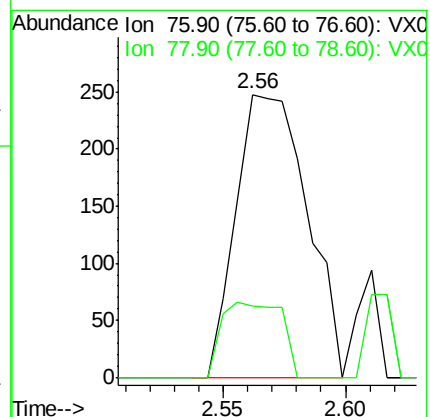
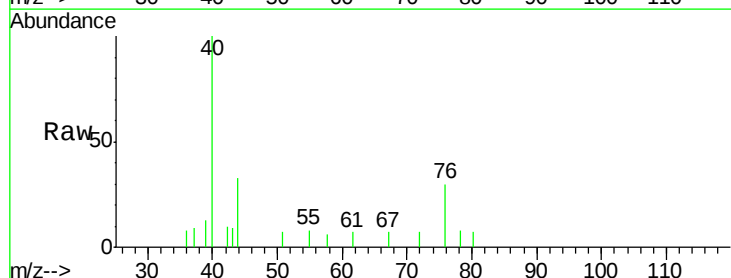
Acq: 25 Apr 2019 16:42

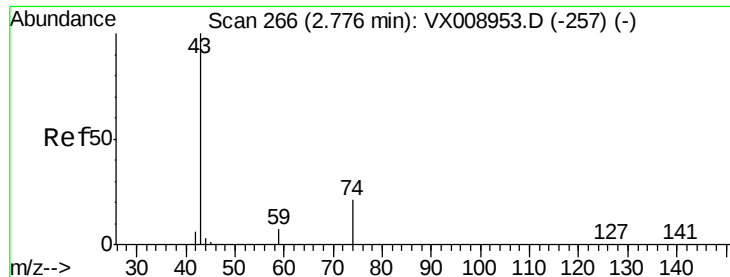
Tgt Ion: 76 Resp: 500

Ion Ratio Lower Upper

76 100

78 25.0 7.2 10.8#

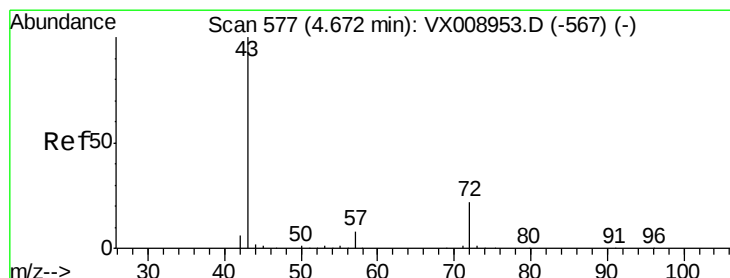
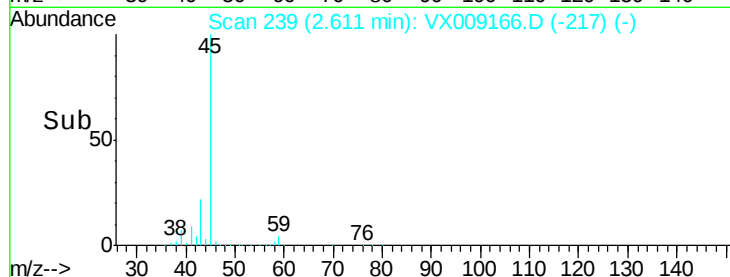
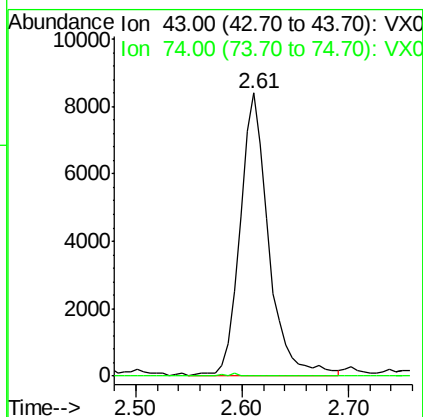
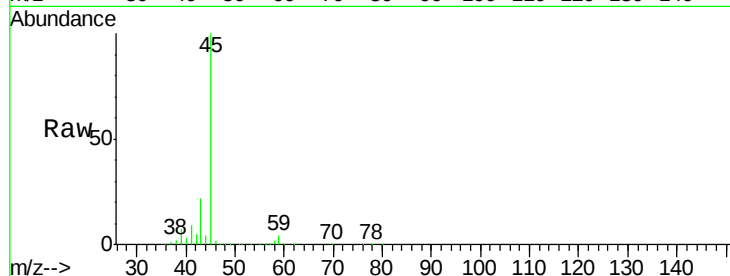




#18
Methvl Acetate
Concen: 4.171 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.16 min
Lab File: VX009166.D
Acq: 25 Apr 2019 16:42

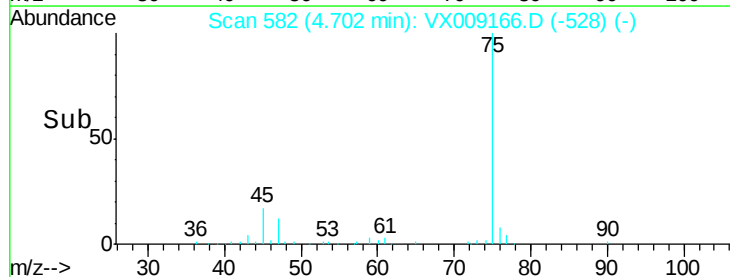
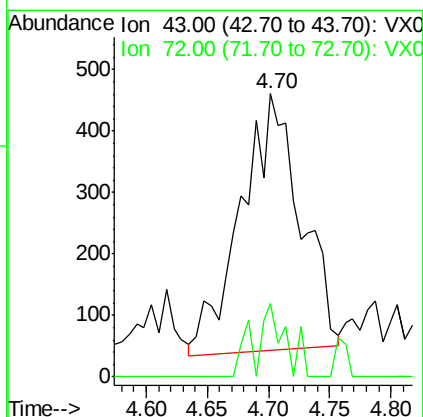
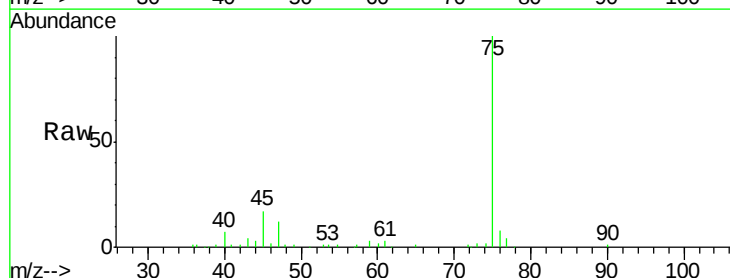
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S37-0013

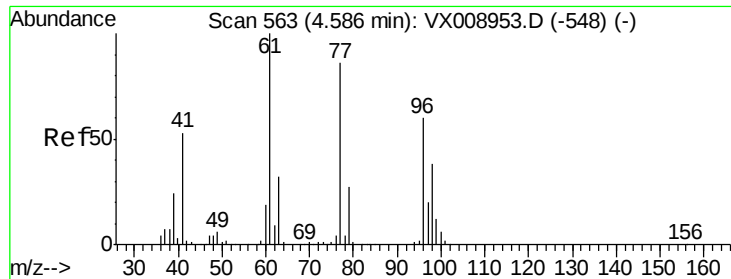
Tot Ion: 43 Resp: 15868
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#25
2-Butanone
Concen: 0.581 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX009166.D
Acq: 25 Apr 2019 16:42

Tgt Ion: 43 Resp: 1415
Ion Ratio Lower Upper
43 100
72 29.1 17.5 26.3#





#26

2,2-Dichloropropane

Concen: 0.518 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.10 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampled :

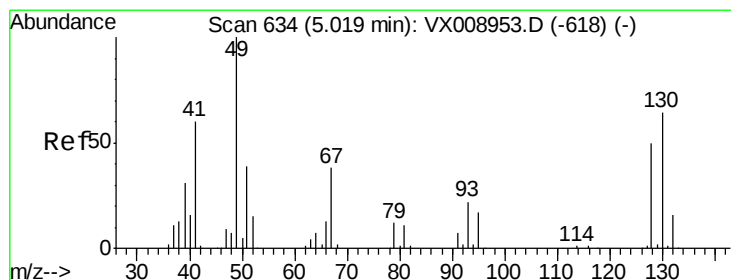
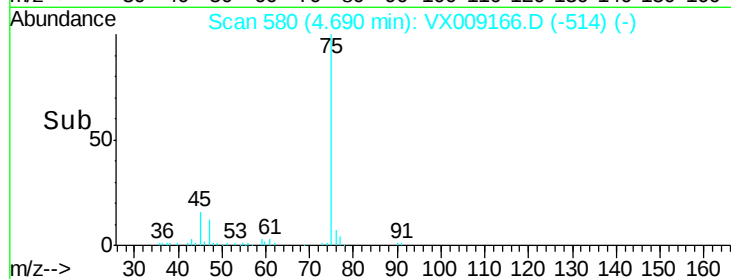
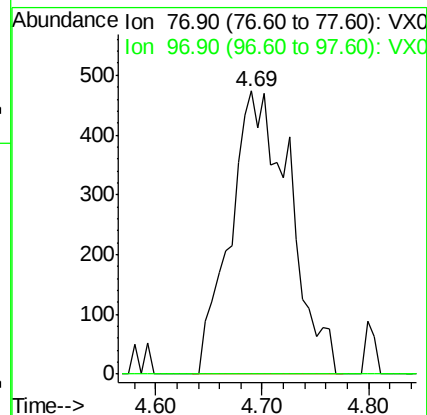
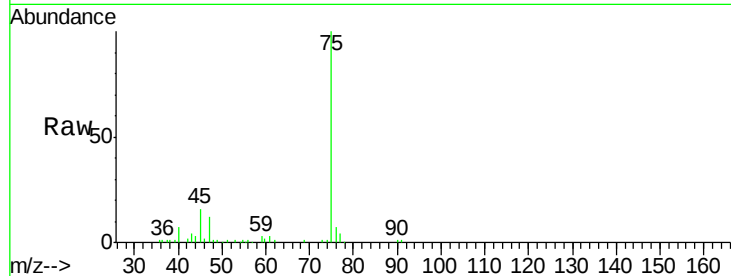
S37-0013

Tot Ion: 77 Resp: 1849

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

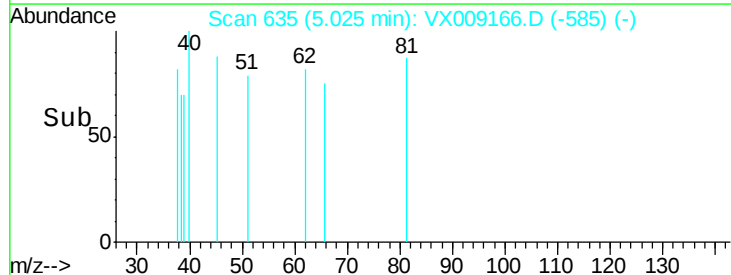
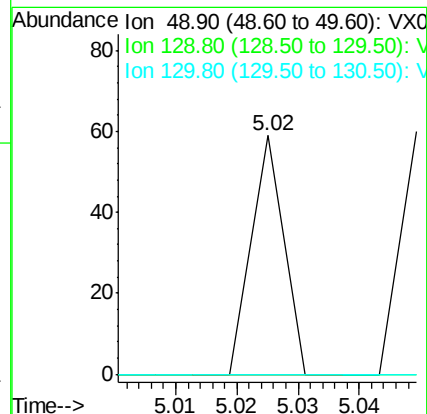
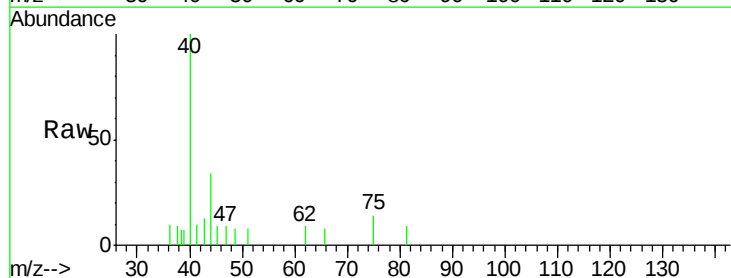
Tgt Ion: 49 Resp: 22

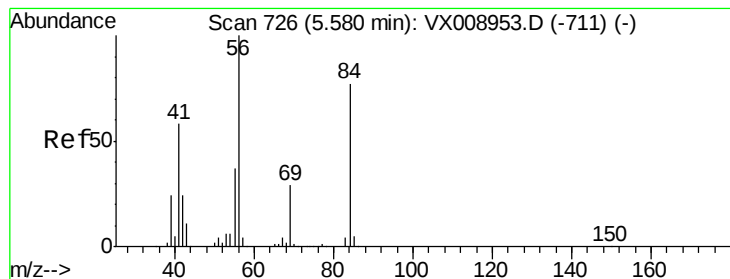
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#





#31

Cyclohexane

Concen: 0.876 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

S37-0013

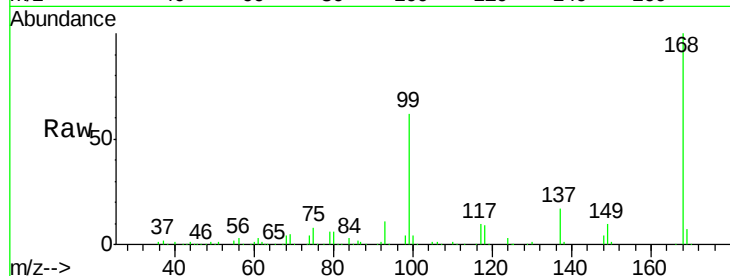
Tot Ion: 56 Resp: 4099

Ion Ratio Lower Upper

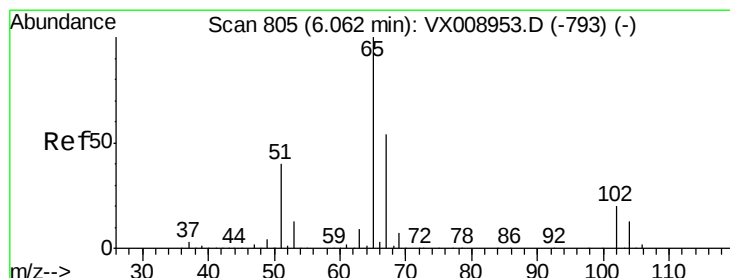
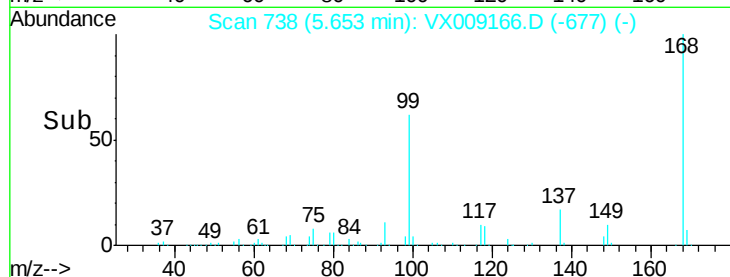
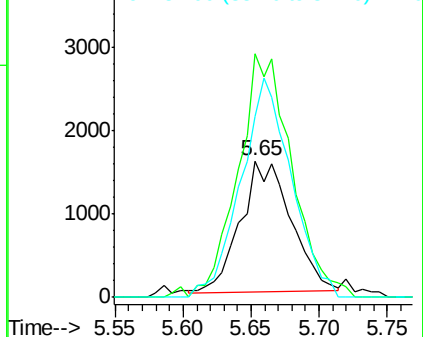
56 100

69 187.5 23.3 34.9#

84 139.7 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: 47.165 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009166.D

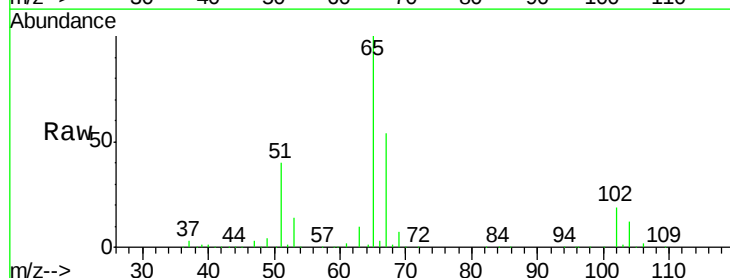
Acq: 25 Apr 2019 16:42

Tgt Ion: 65 Resp: 138631

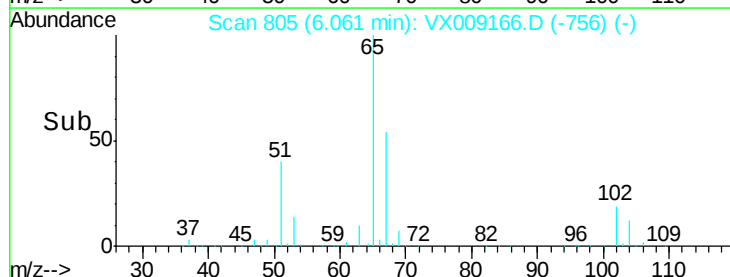
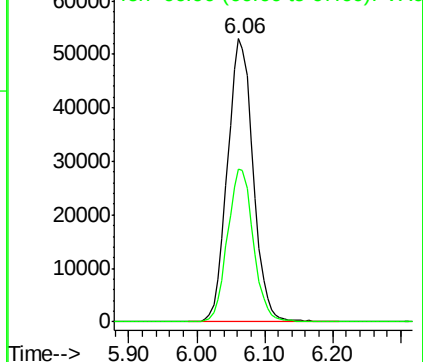
Ion Ratio Lower Upper

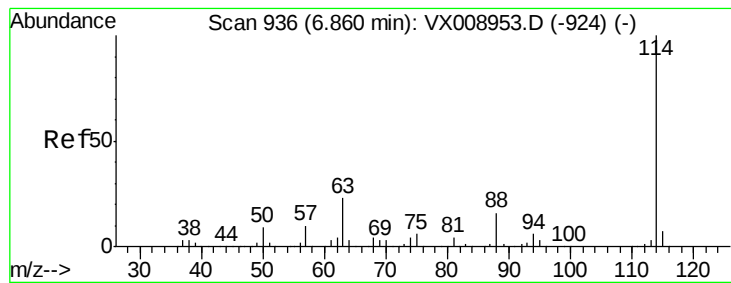
65 100

67 54.1 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: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

S37-0013

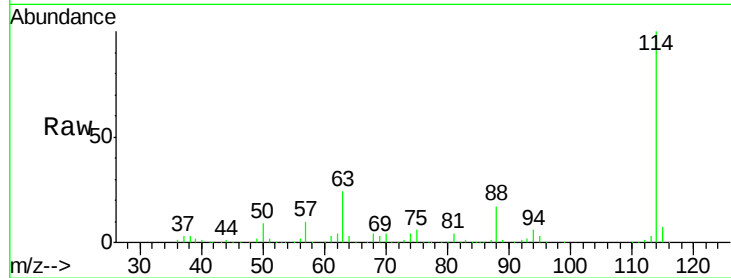
Tot Ion:114 Resp: 335393

Ion Ratio Lower Upper

114 100

63 23.6 0.0 46.0

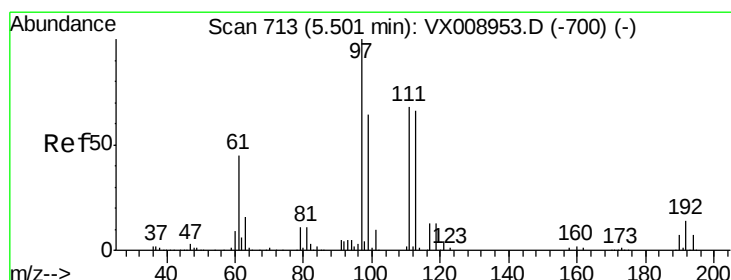
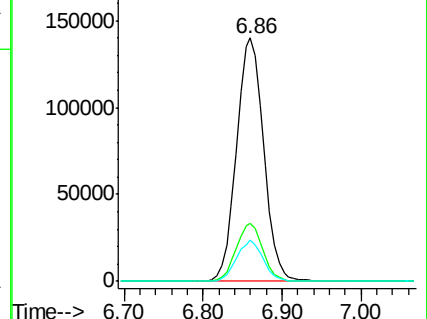
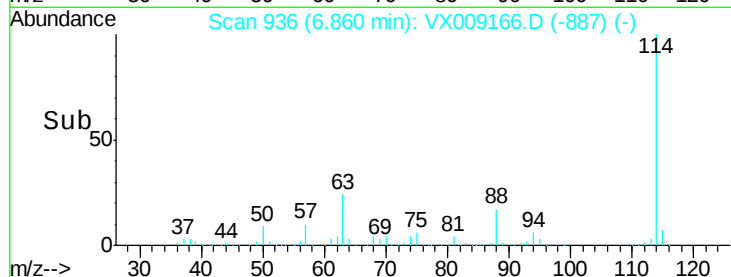
88 16.9 0.0 32.6



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



#35

Dibromofluoromethane

Concen: 47.297 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

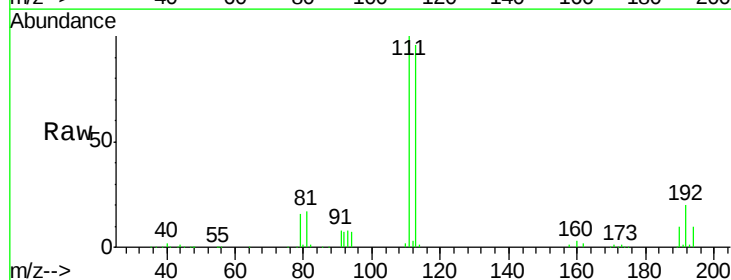
Tgt Ion:113 Resp: 101805

Ion Ratio Lower Upper

113 100

111 103.3 82.9 124.3

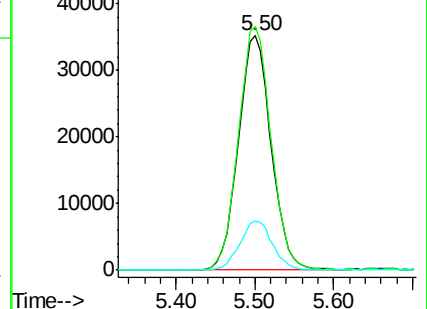
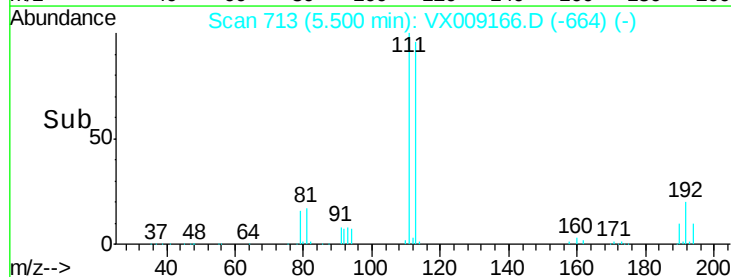
192 20.9 17.4 26.0

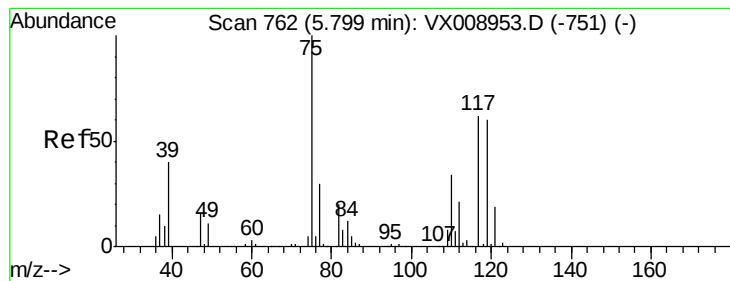


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.847 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampled :

S37-0013

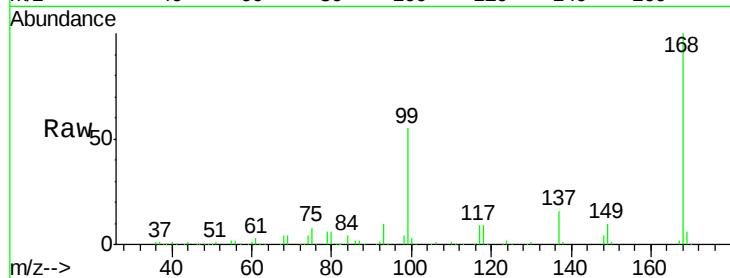
Tot Ion: 75 Resp: 16812

Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.7#

77 0.1 25.0 37.4#



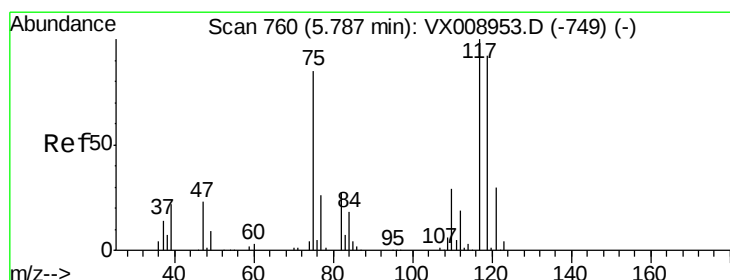
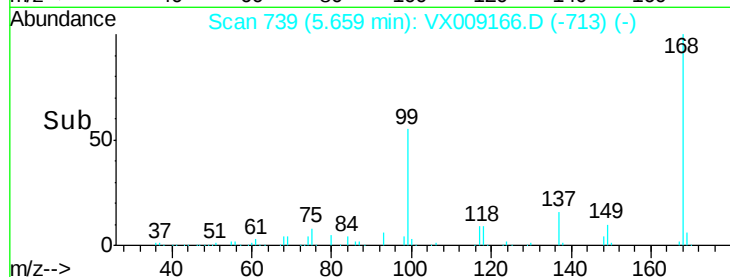
Abundance Ion 74.90 (74.60 to 75.60): VX008953.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX008953.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX008953.D (-751) (-)

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.756 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

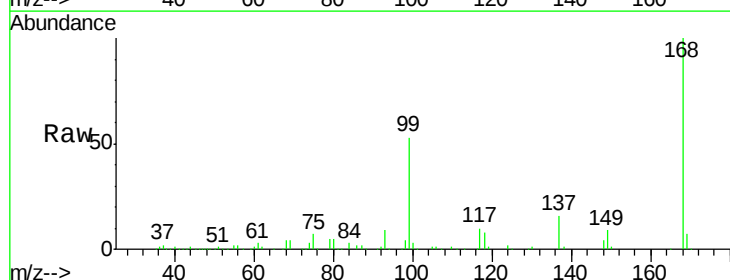
Tgt Ion: 117 Resp: 19866

Ion Ratio Lower Upper

117 100

119 5.6 73.8 110.8#

121 0.0 23.6 35.4#



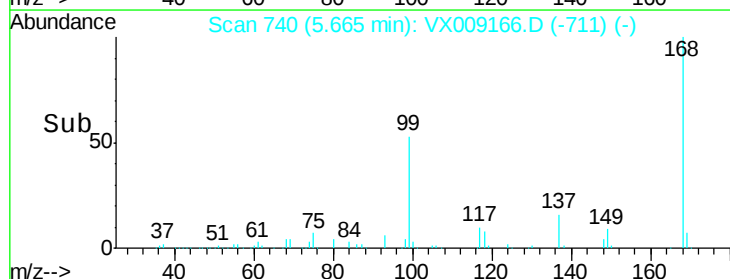
Abundance Ion 116.80 (116.50 to 117.50): VX008953.D (-749) (-)

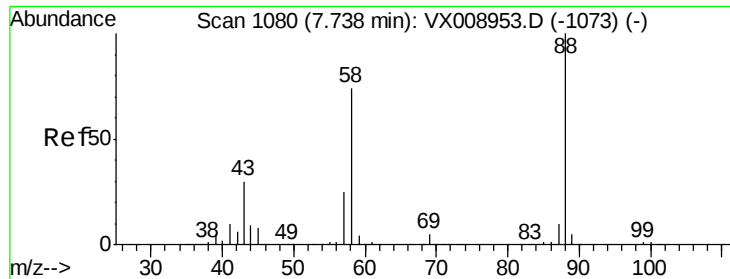
Ion 118.80 (118.50 to 119.50): VX008953.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX008953.D (-749) (-)

5.67

Time-->





#49

1,4-Dioxane

Concen: 0.301 ug/l

RT: 7.91 min Scan# 1109

Delta R.T. 0.18 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

S37-0013

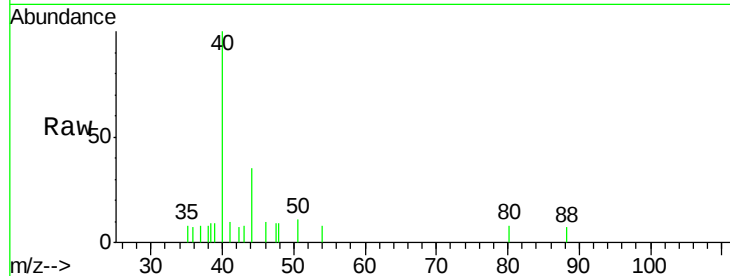
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 255.0 29.3 43.9#

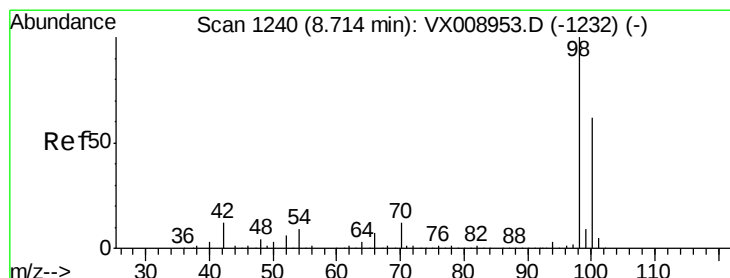
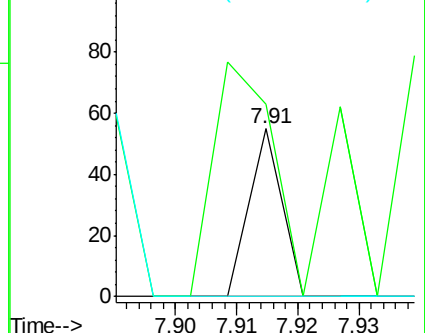
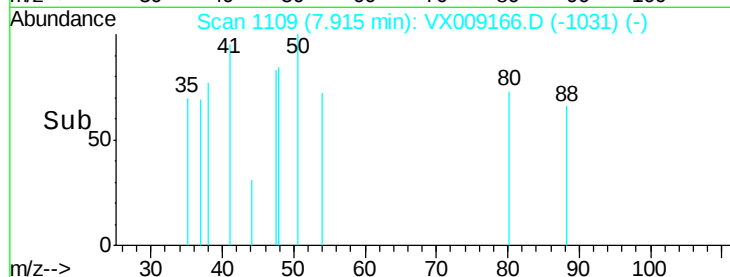
58 0.0 62.6 93.8#



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



#50

Toluene-d8

Concen: 48.838 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009166.D

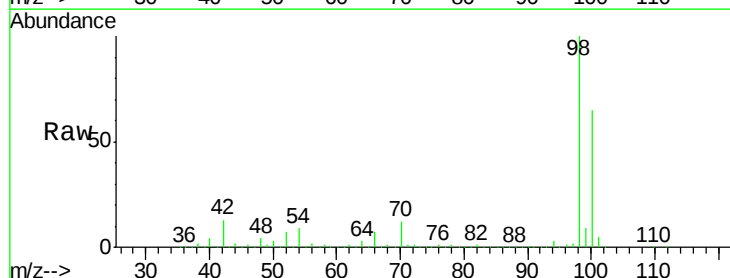
Acq: 25 Apr 2019 16:42

Tgt Ion: 98 Resp: 419234

Ion Ratio Lower Upper

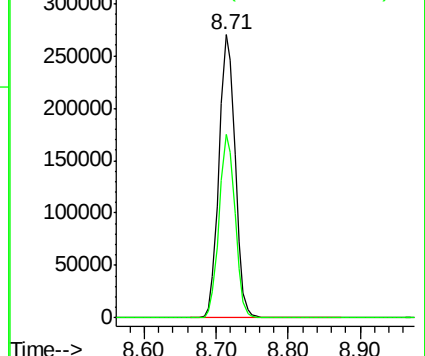
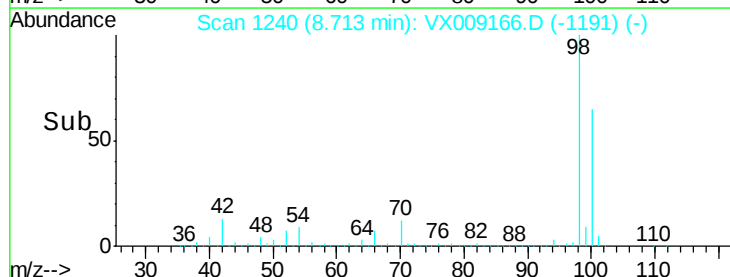
98 100

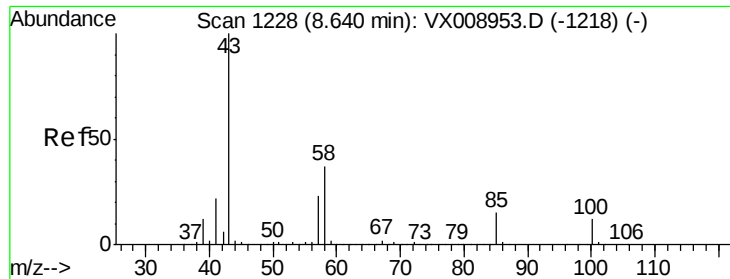
100 64.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.493 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampled :

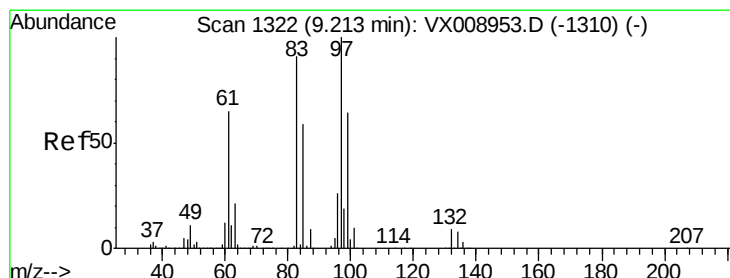
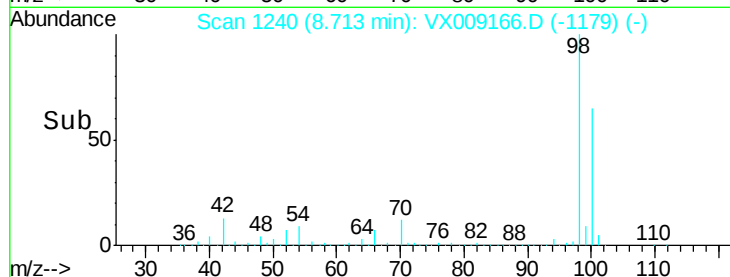
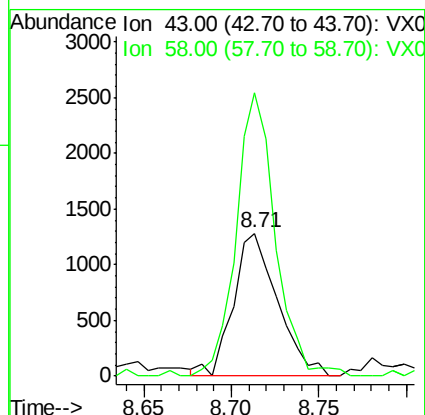
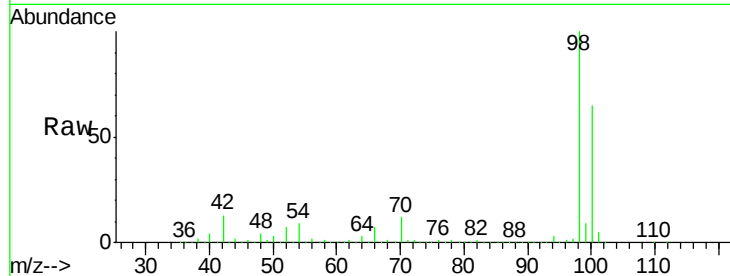
S37-0013

Tot Ion: 43 Resp: 2258

Ion Ratio Lower Upper

43 100

58 175.3 29.8 44.6#



#55

1,1,2-Trichloroethane

Concen: 0.205 ug/l

RT: 9.32 min Scan# 1340

Delta R.T. 0.11 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Tgt Ion: 97 Resp: 498

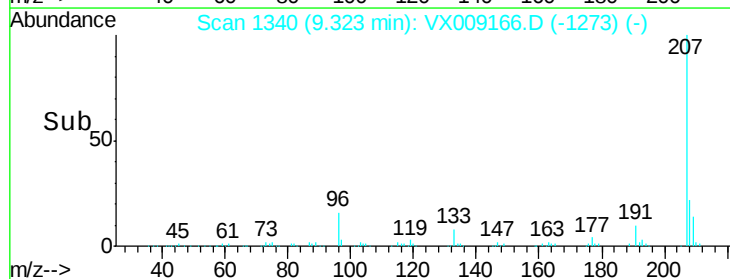
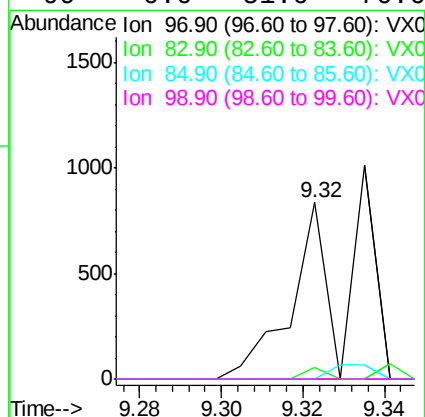
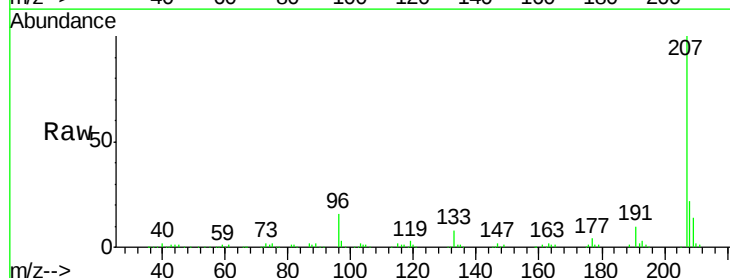
Ion Ratio Lower Upper

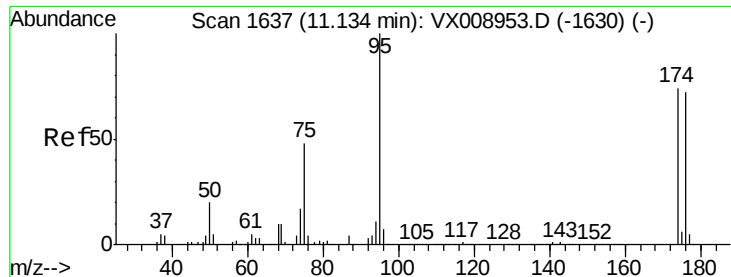
97 100

83 6.8 72.6 108.8#

85 0.0 46.9 70.3#

99 0.0 51.0 76.6#





#62

4-Bromofluorobenzene

Concen: 46.359 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampled :

S37-0013

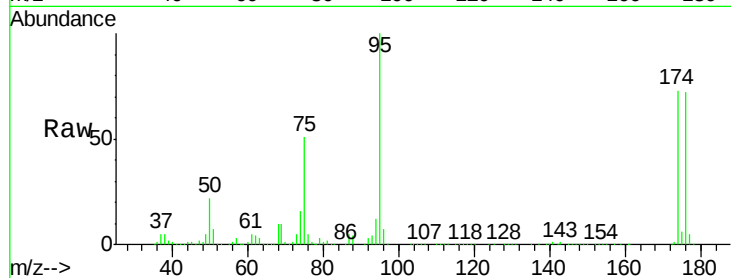
Tot Ion: 95 Resp: 140478

Ion Ratio Lower Upper

95 100

174 79.8 0.0 159.6

176 77.9 0.0 154.8

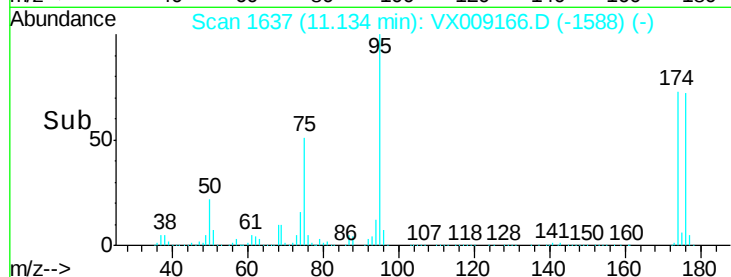


Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

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

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

Time-->

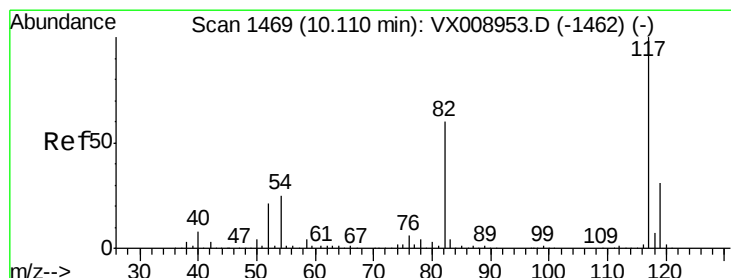


Abundance Ion 94.90 (94.60 to 95.60): VX009166.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009166.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009166.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

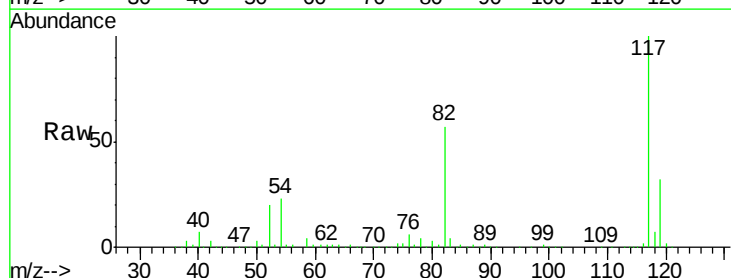
Tgt Ion: 117 Resp: 293049

Ion Ratio Lower Upper

117 100

82 57.5 48.2 72.4

119 32.0 25.0 37.6

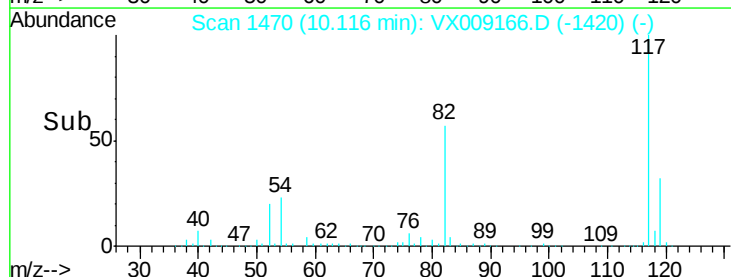


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

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

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

Time-->

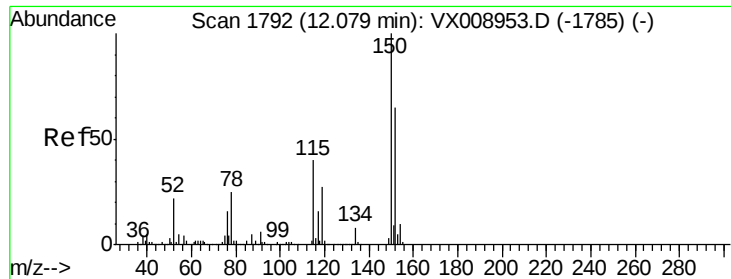


Abundance Ion 116.90 (116.60 to 117.60): VX009166.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009166.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009166.D (-1420) (-)

Time-->

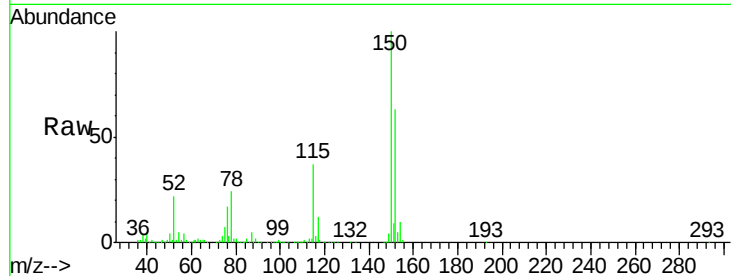


#72

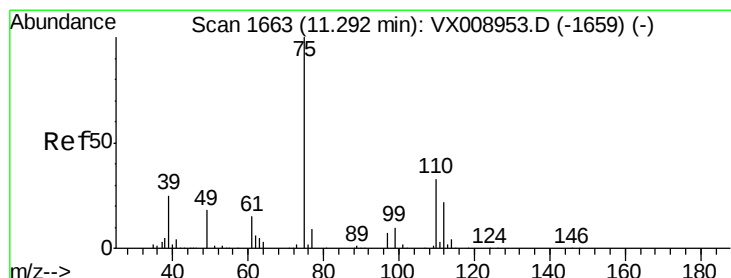
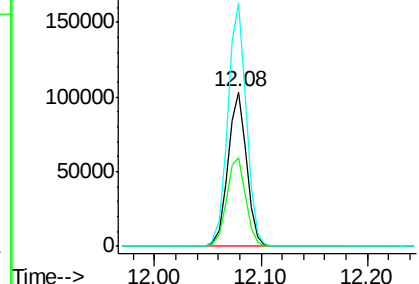
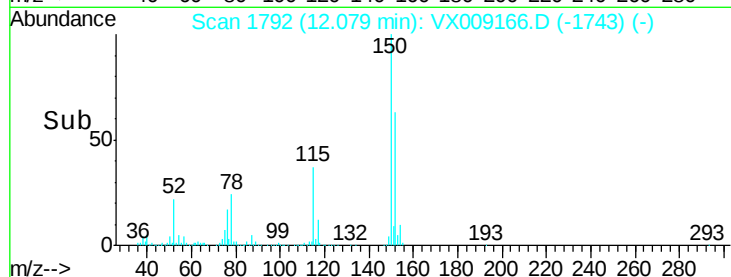
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009166.D
Acq: 25 Apr 2019 16:42

Instrument :
MSVOA_X
ClientSampleId :
S37-0013

Tot Ion:152 Resp: 126036
Ion Ratio Lower Upper
152 100
115 59.0 41.4 124.2
150 157.0 0.0 349.8



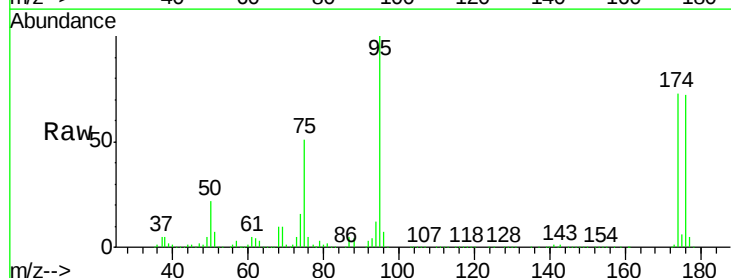
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



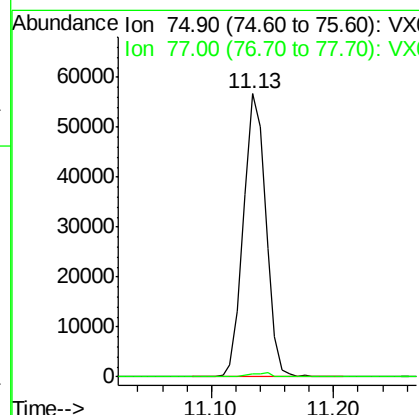
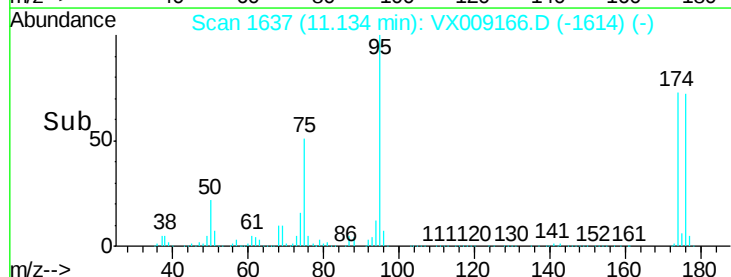
#76

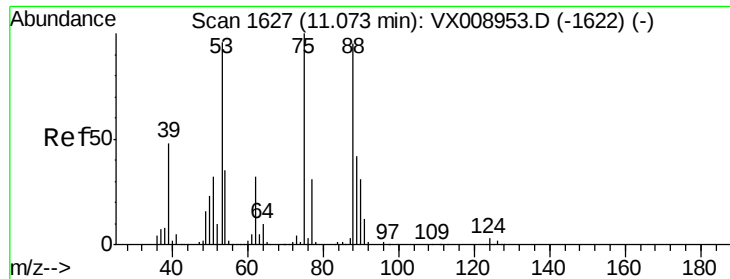
1,2,3-Trichloropropane
Concen: 23.272 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009166.D
Acq: 25 Apr 2019 16:42

Tgt Ion: 75 Resp: 71621
Ion Ratio Lower Upper
75 100
77 1.5 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: 59.746 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

S37-0013

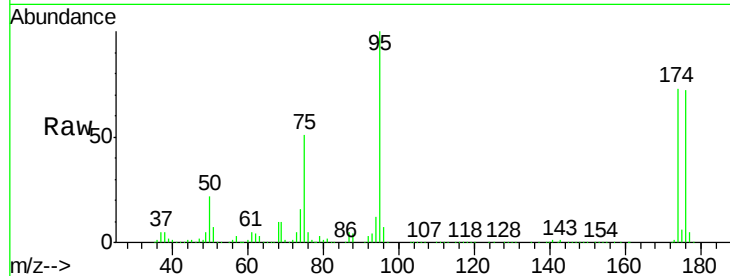
Tot Ion: 75 Resp: 71621

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

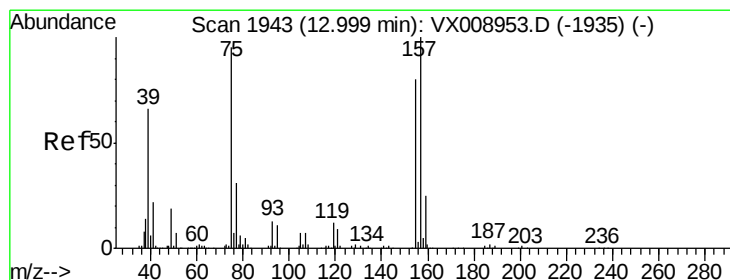
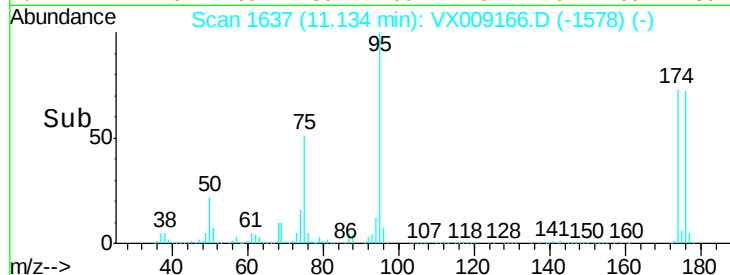
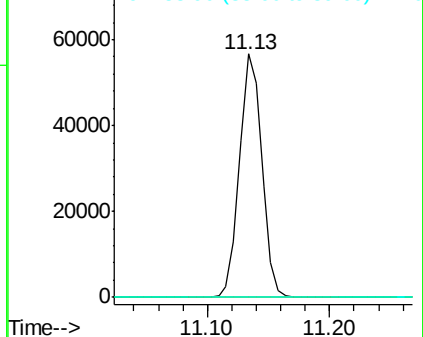
89 0.0 36.0 54.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.460 ug/l

RT: 12.81 min Scan# 1912

Delta R.T. -0.19 min

Lab File: VX009166.D

Acq: 25 Apr 2019 16:42

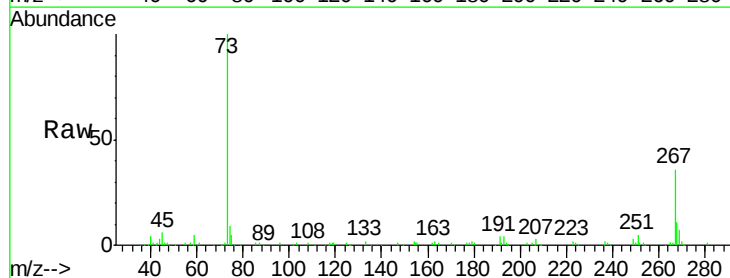
Tgt Ion: 75 Resp: 1160

Ion Ratio Lower Upper

75 100

155 20.5 41.2 123.6#

157 0.0 52.5 157.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

