

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX043019\
 Data File : VX009237.D
 Acq On : 30 Apr 2019 11:47
 Operator : JC/SP
 Sample : K2594-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW174-190423

Quant Time: May 01 01:20:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	209422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335408	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	292180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	121357	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	137418	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
35) Dibromofluoromethane	5.50	113	102222	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.71	98	418375	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	11.13	95	138929	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	

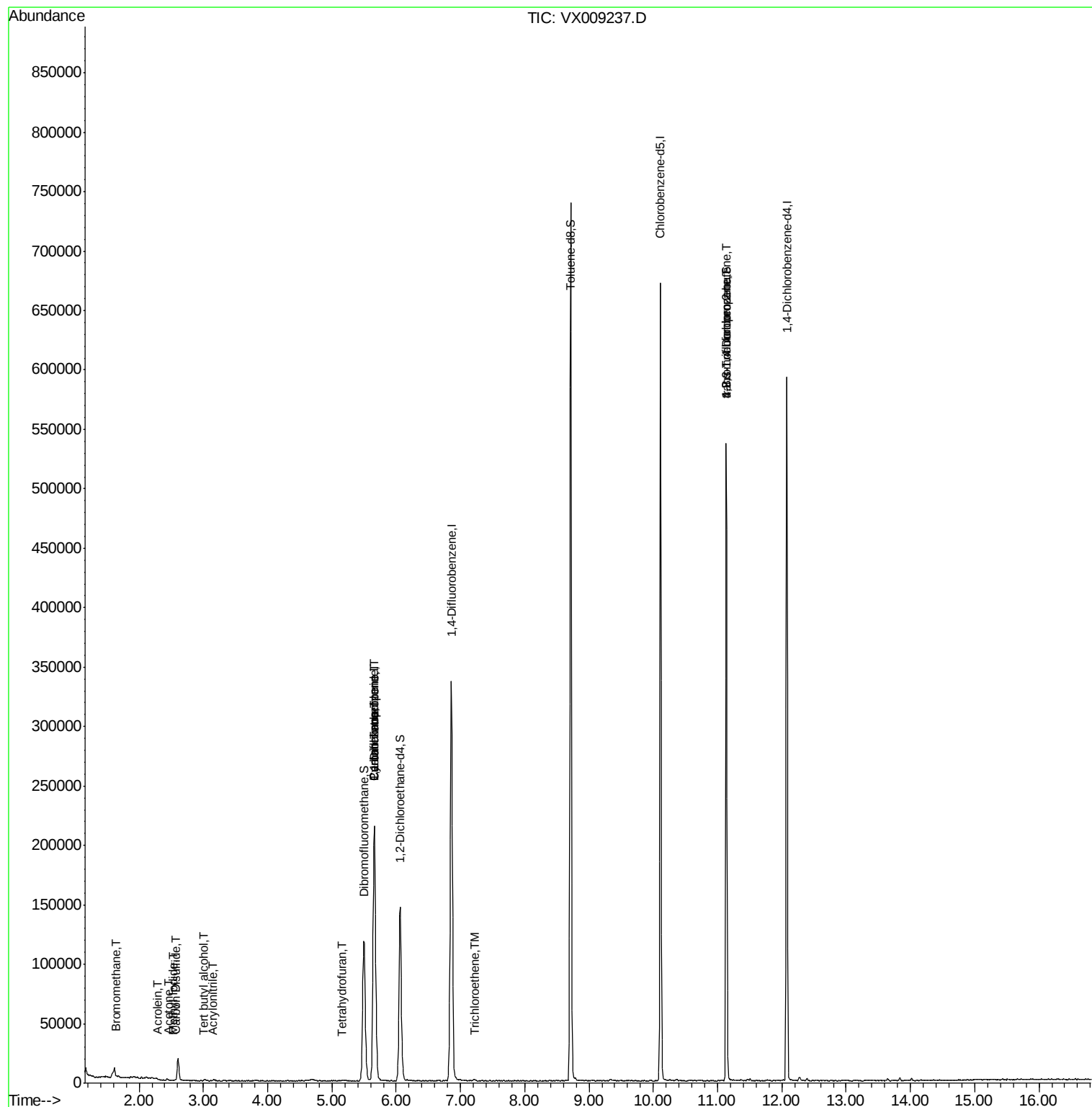
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	371	0.241	ug/l	92
10) Methyl Iodide	2.53	142	415	4.759	ug/l #	87
11) Tert butyl alcohol	3.00	59	290	0.438	ug/l #	34
13) Acrolein	2.29	56	433	0.723	ug/l #	32
15) Acrylonitrile	3.14	53	498	0.308	ug/l #	81
16) Acetone	2.45	43	1954	1.273	ug/l	100
17) Carbon Disulfide	2.57	76	1284	0.233	ug/l #	88
28) Bromochloromethane	5.02	49	57	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	402	0.262	ug/l #	67
31) Cyclohexane	5.66	56	4621	1.093	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16460	5.281	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19457	6.870	ug/l #	15
44) Trichloroethene	7.23	130	511	0.219	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	69638	24.738	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69638	63.295	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

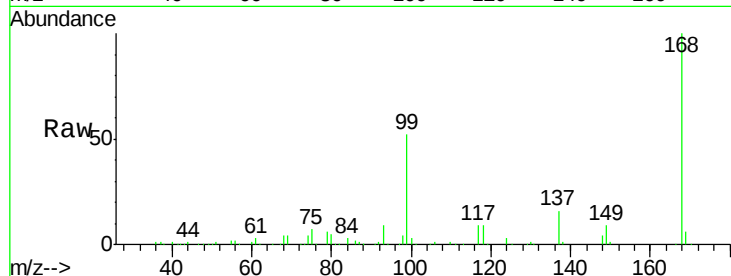
WP021MW174-190423

Tot Ion:168 Resp: 209422

Ion Ratio Lower Upper

168 100

99 51.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

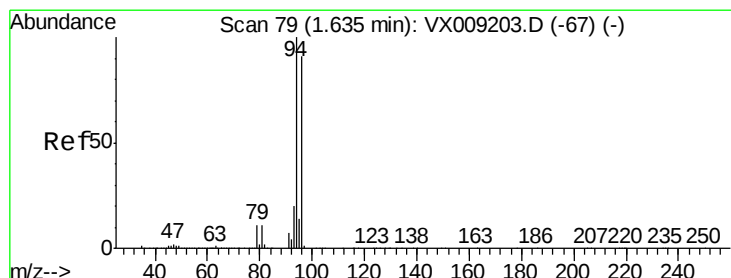
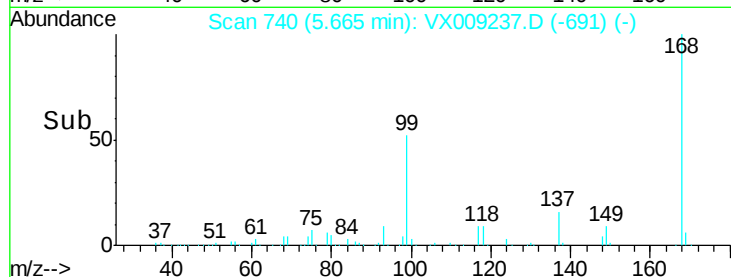
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009237.D

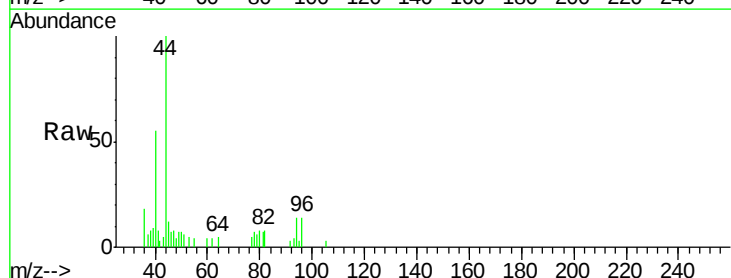
Acq: 30 Apr 2019 11:47

Tgt Ion: 94 Resp: 371

Ion Ratio Lower Upper

94 100

96 98.6 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

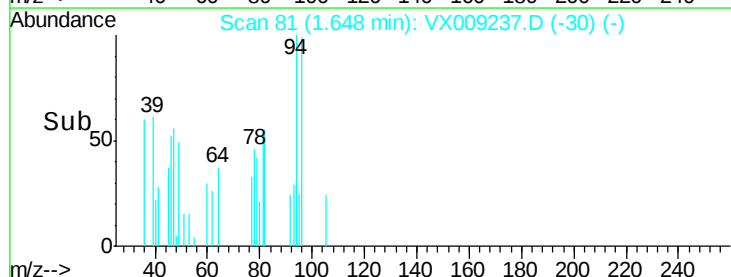
100

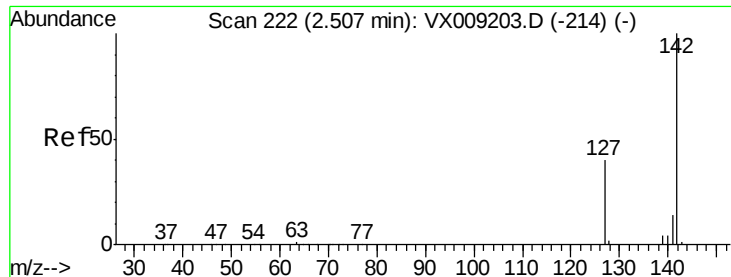
50

0

Time-->

1.62 1.64 1.66 1.68

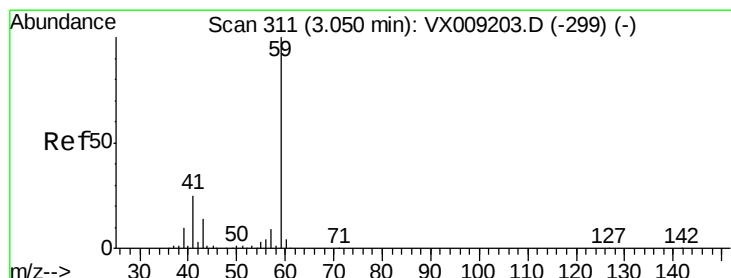
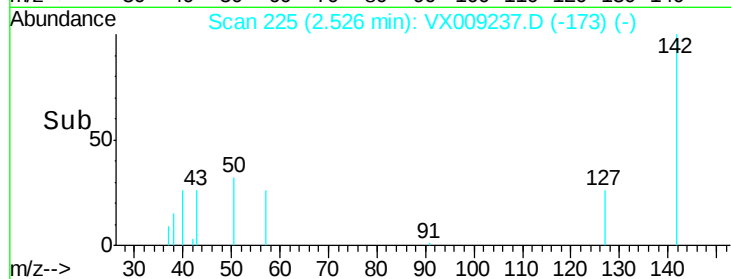
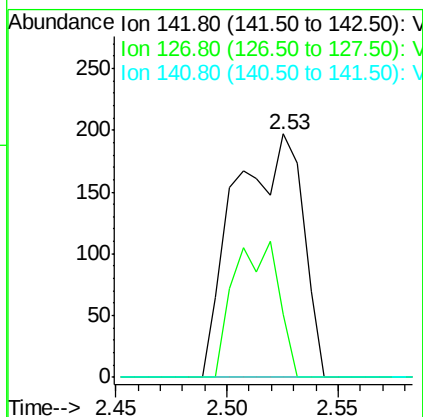
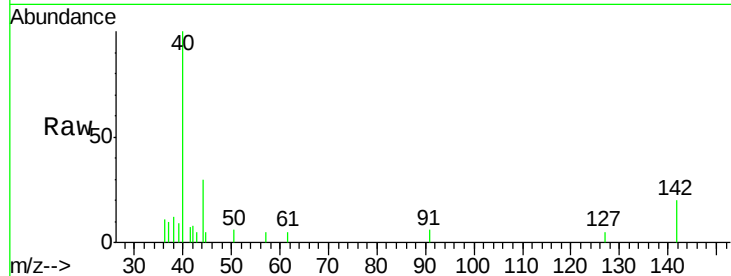




#10
Methvl Iodide
Concen: 4.759 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX009237.D
Acq: 30 Apr 2019 11:47

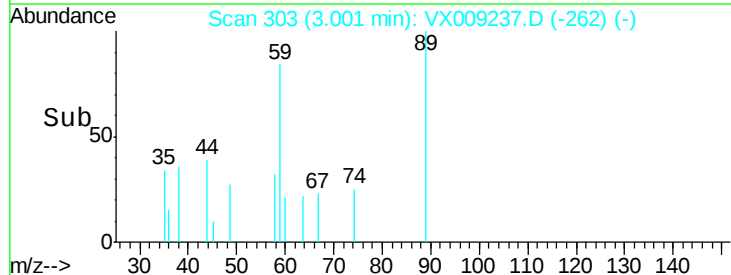
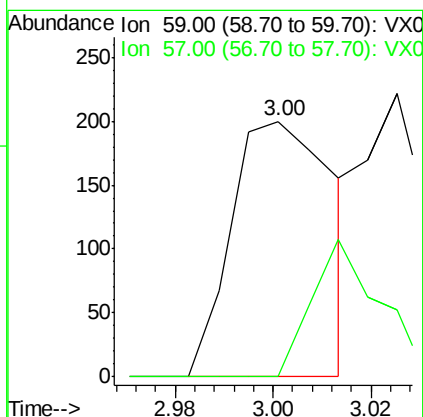
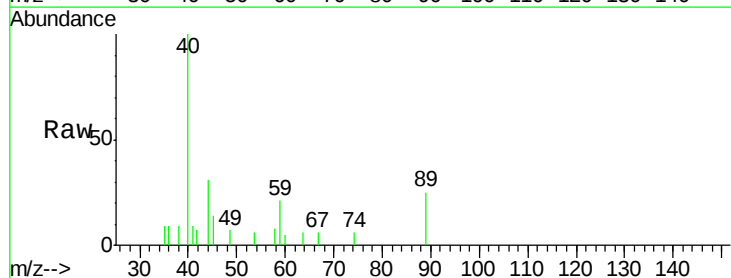
Instrument :
MSVOA_X
ClientSampleId :
WP021MW174-190423

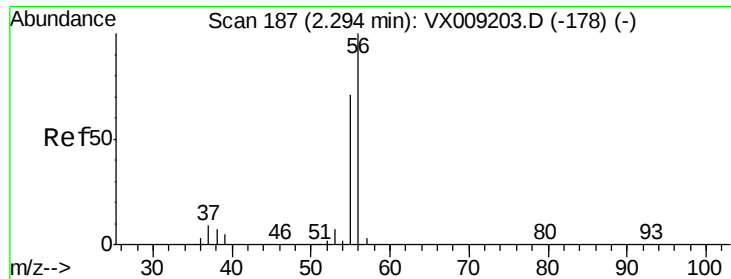
Tot Ion:142 Resp: 415
Ion Ratio Lower Upper
142 100
127 37.3 32.7 49.1
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.438 ug/l
RT: 3.00 min Scan# 303
Delta R.T. -0.05 min
Lab File: VX009237.D
Acq: 30 Apr 2019 11:47

Tgt Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
57 34.8 8.2 12.2#





#13

Acrolein

Concen: 0.723 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

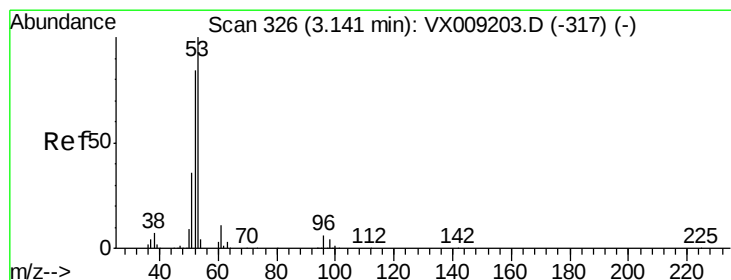
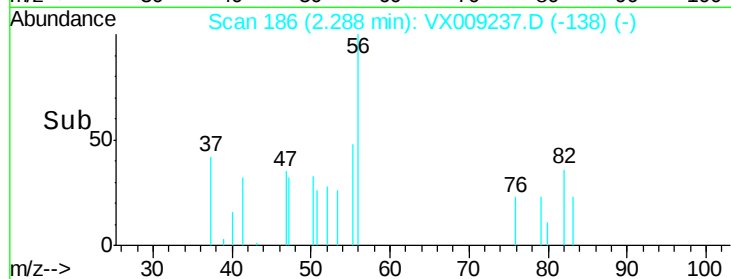
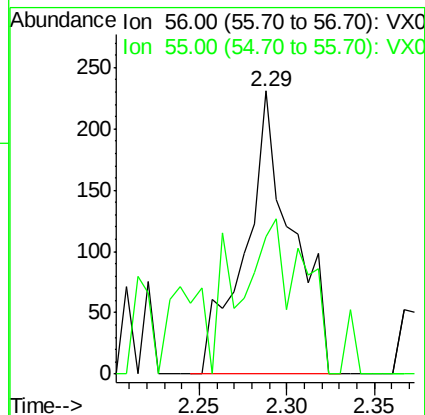
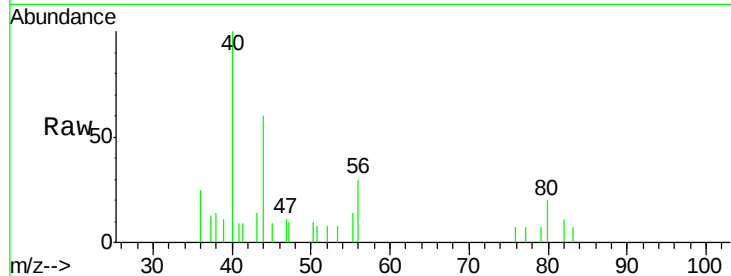
WP021MW174-190423

Tot Ion: 56 Resp: 433

Ion Ratio Lower Upper

56 100

55 14.5 56.6 85.0#



#15

Acrylonitrile

Concen: 0.308 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

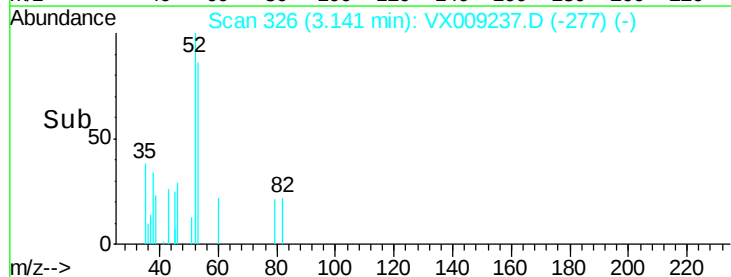
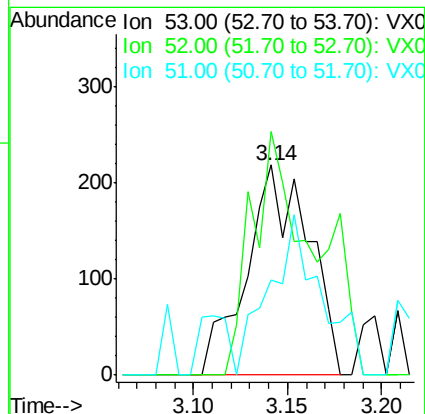
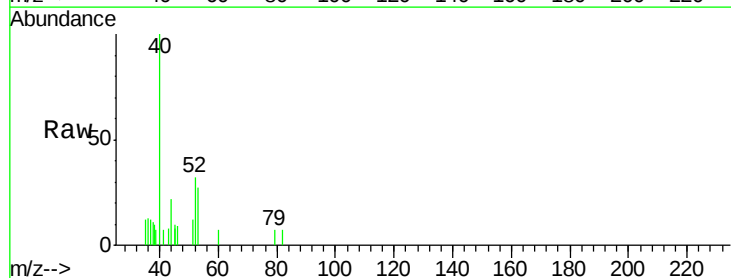
Tgt Ion: 53 Resp: 498

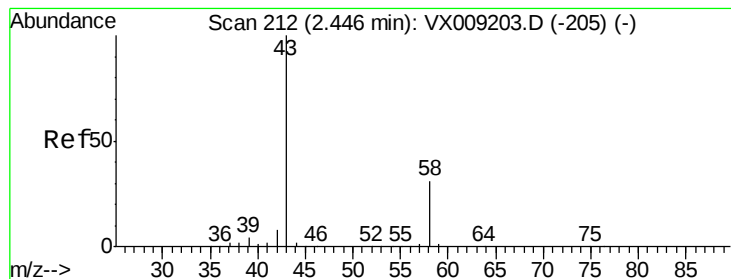
Ion Ratio Lower Upper

53 100

52 89.8 66.9 100.3

51 63.7 28.2 42.2#





#16

Acetone

Concen: 1.273 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

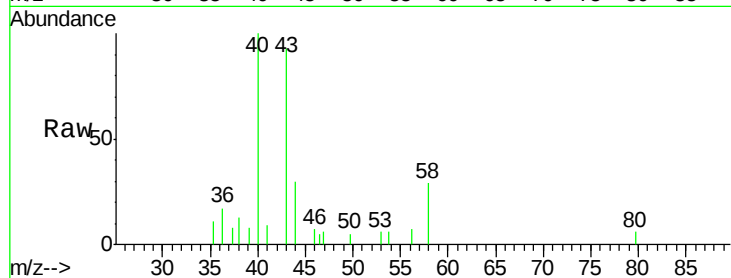
WP021MW174-190423

Tot Ion: 43 Resp: 1954

Ion Ratio Lower Upper

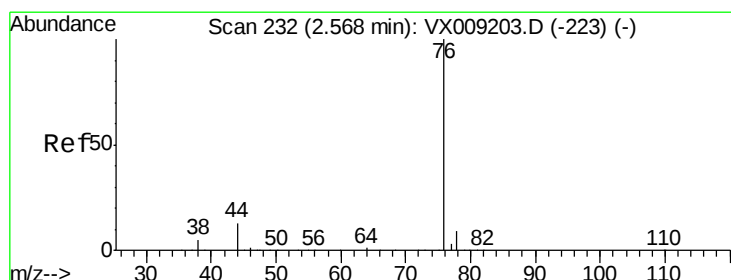
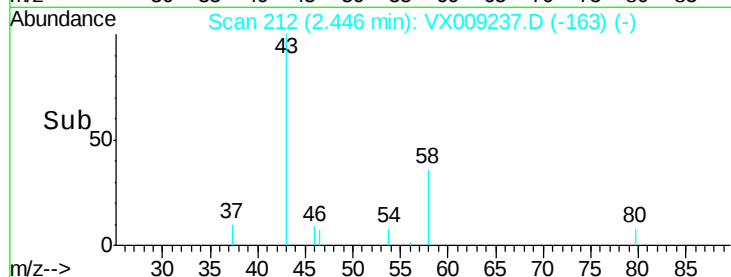
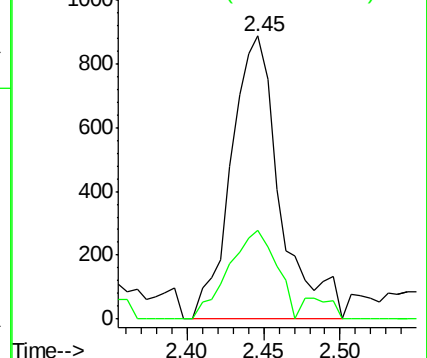
43 100

58 31.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.233 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009237.D

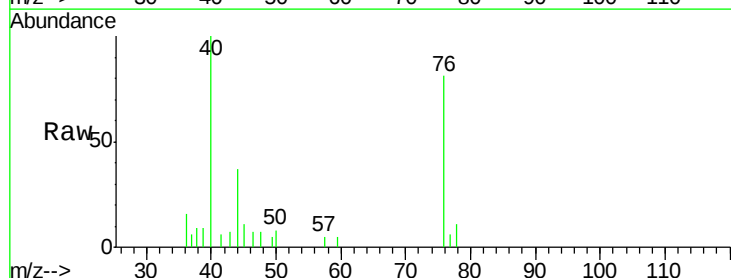
Acq: 30 Apr 2019 11:47

Tgt Ion: 76 Resp: 1284

Ion Ratio Lower Upper

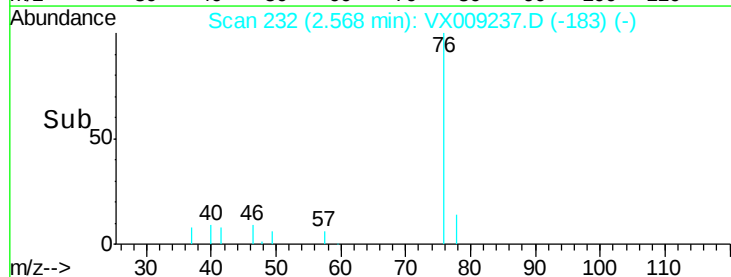
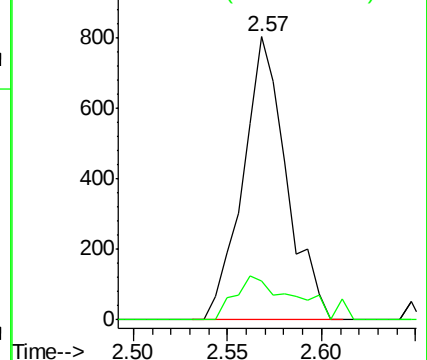
76 100

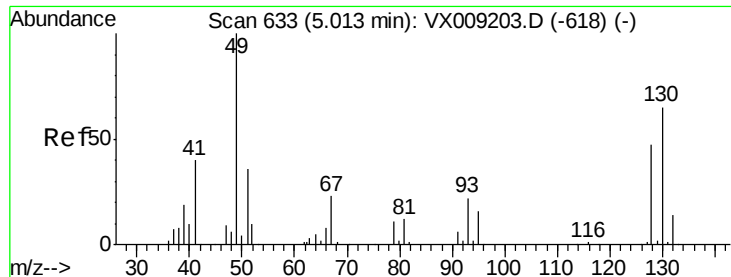
78 13.7 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

WP021MW174-190423

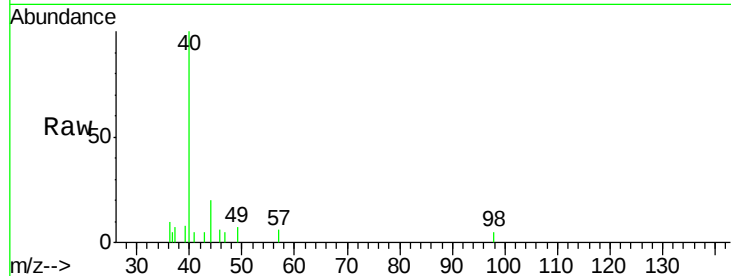
Tot Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

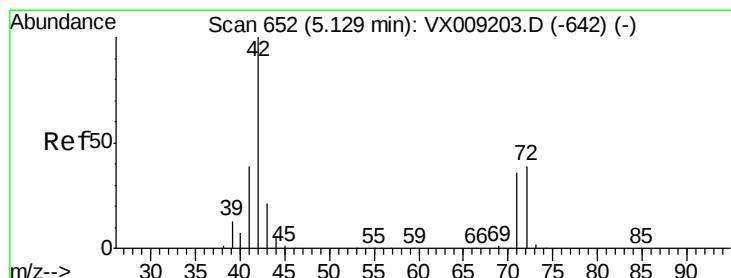
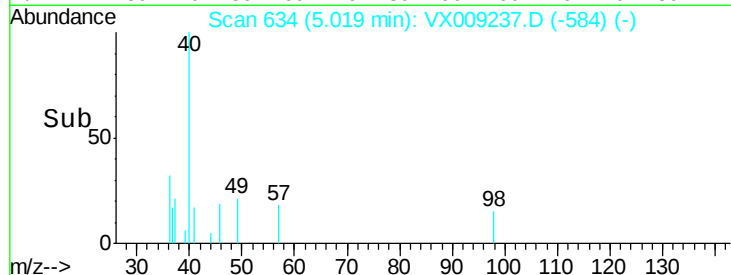
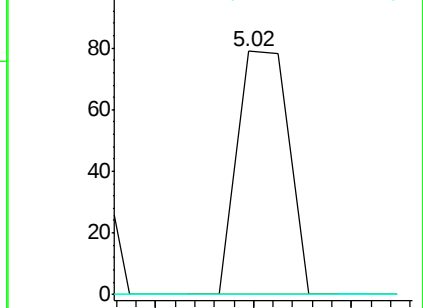
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

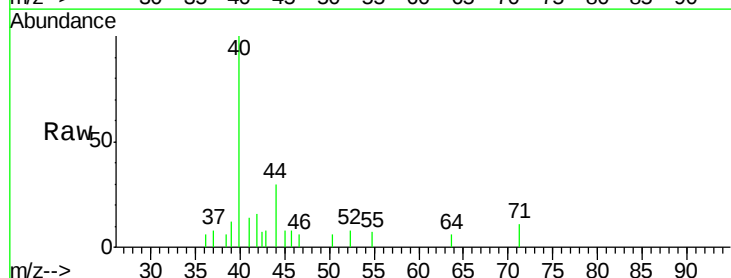
Tgt Ion: 42 Resp: 402

Ion Ratio Lower Upper

42 100

72 0.0 30.4 45.6#

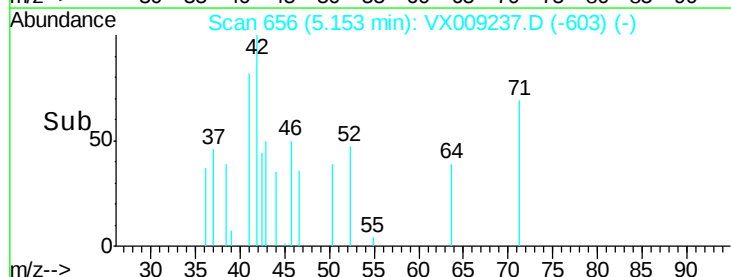
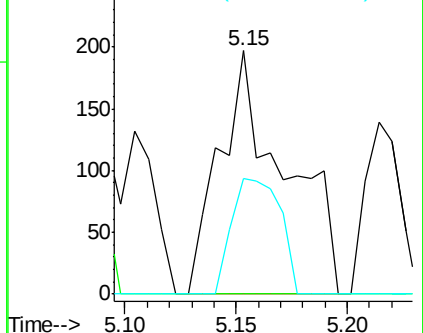
71 35.3 28.6 43.0

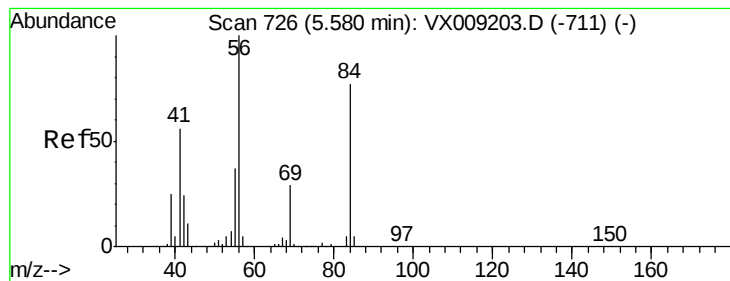


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.093 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

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WP021MW174-190423

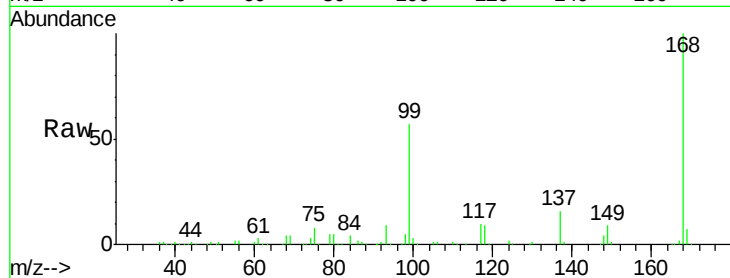
Tot Ion: 56 Resp: 4621

Ion Ratio Lower Upper

56 100

69 193.5 23.4 35.0#

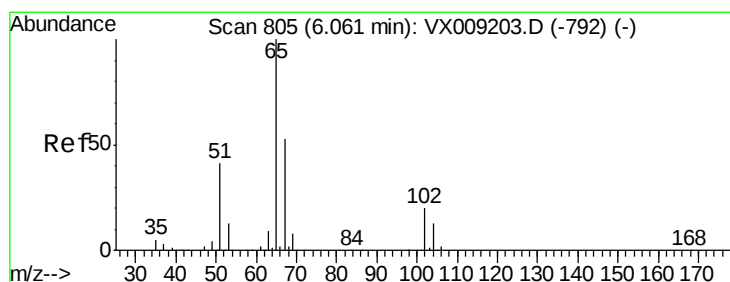
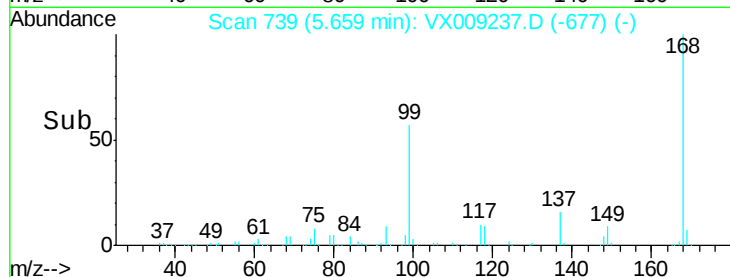
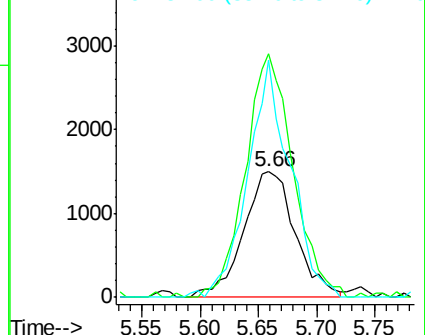
84 188.1 61.9 92.9#



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: 48.067 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009237.D

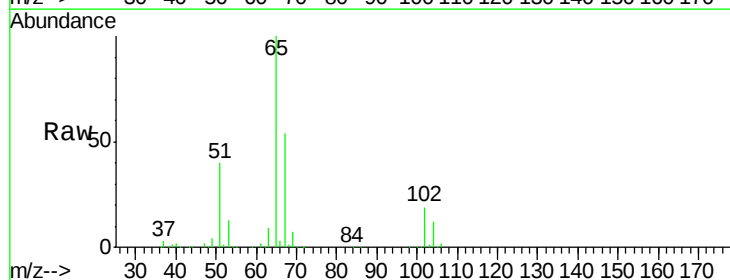
Acq: 30 Apr 2019 11:47

Tgt Ion: 65 Resp: 137418

Ion Ratio Lower Upper

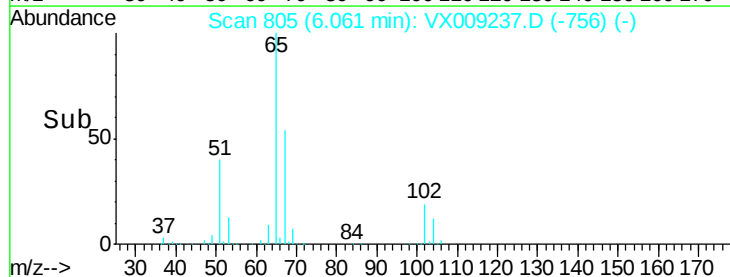
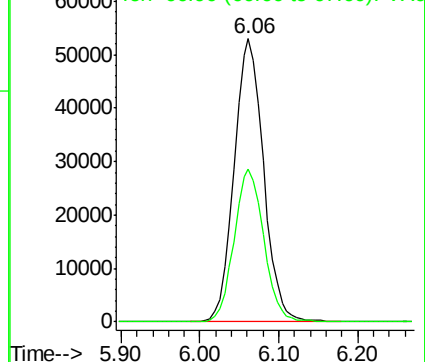
65 100

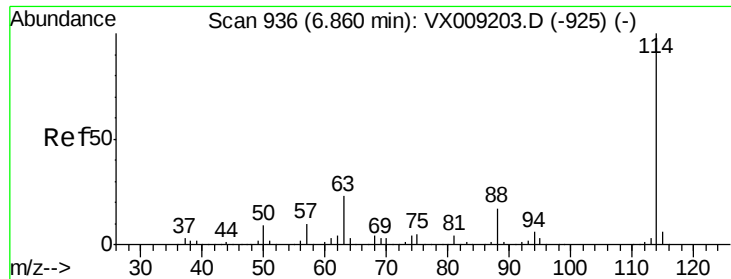
67 54.3 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

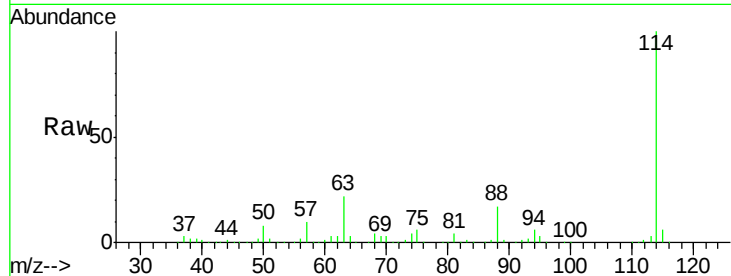




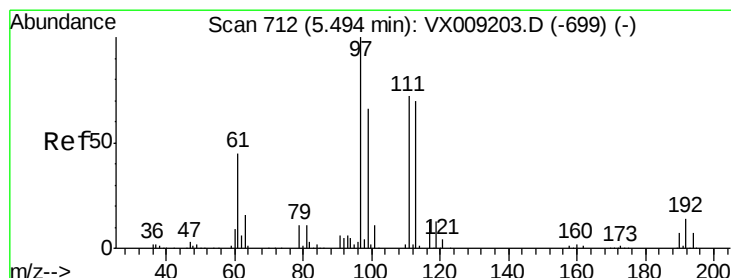
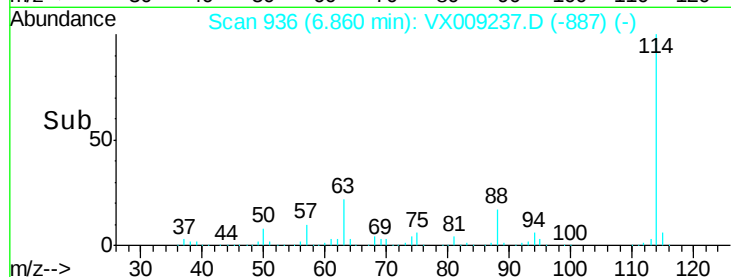
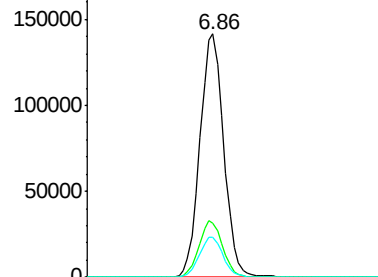
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009237.D
 Acq: 30 Apr 2019 11:47

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW174-190423

Tot Ion:114 Resp: 335408
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.6
 88 16.7 0.0 33.2

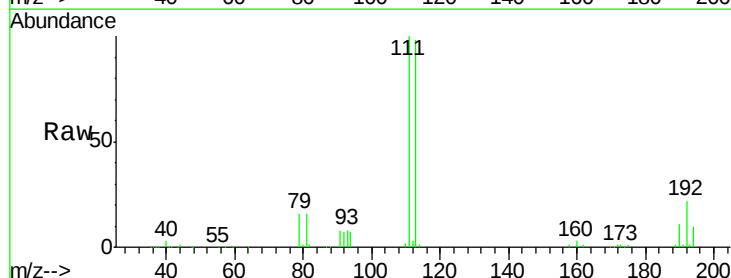


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

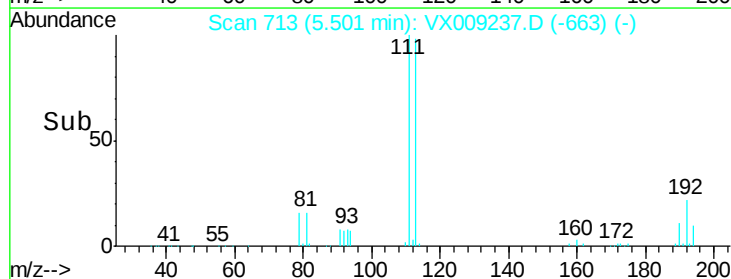
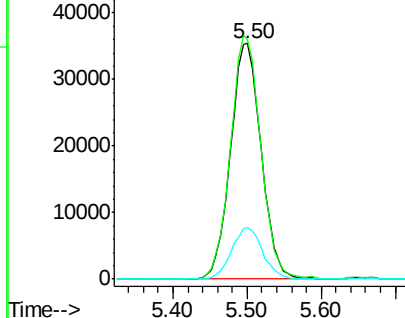


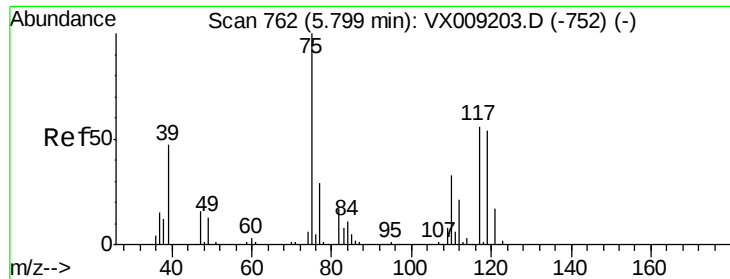
#35
 Dibromofluoromethane
 Concen: 48.481 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009237.D
 Acq: 30 Apr 2019 11:47

Tgt Ion:113 Resp: 102222
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.8 124.2
 192 22.1 17.0 25.6



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: 5.281 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

WP021MW174-190423

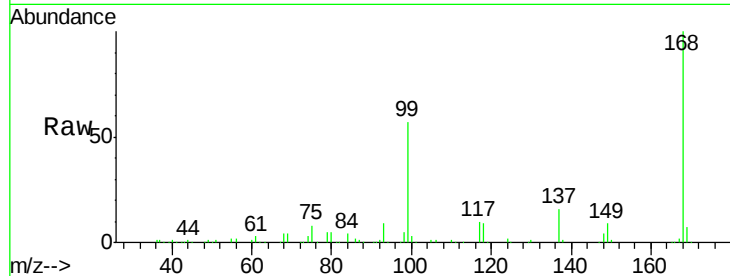
Tot Ion: 75 Resp: 16460

Ion Ratio Lower Upper

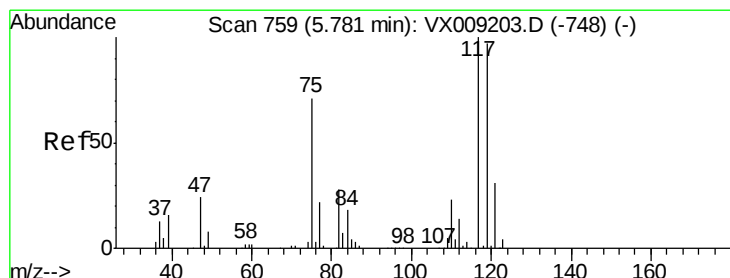
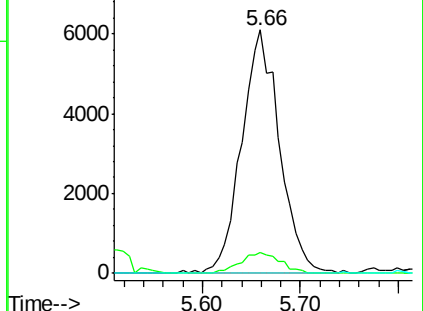
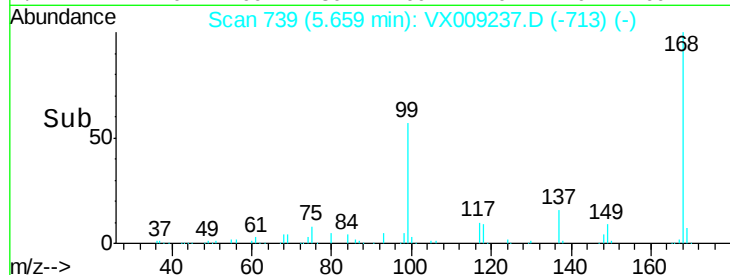
75 100

110 8.9 16.9 50.6#

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX009237.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.870 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

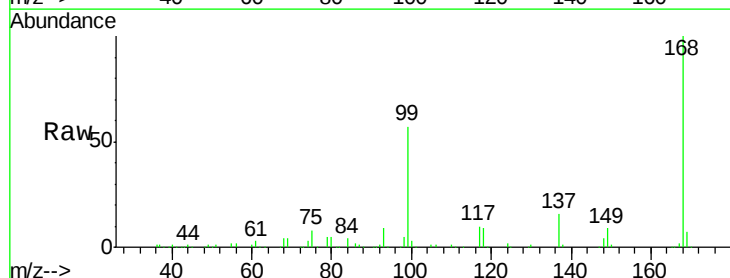
Tgt Ion: 117 Resp: 19457

Ion Ratio Lower Upper

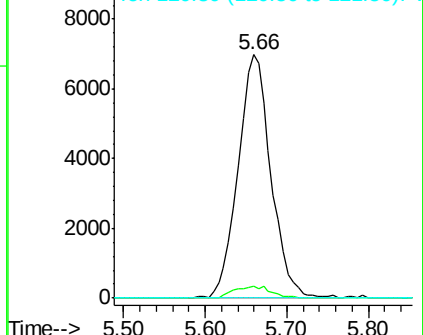
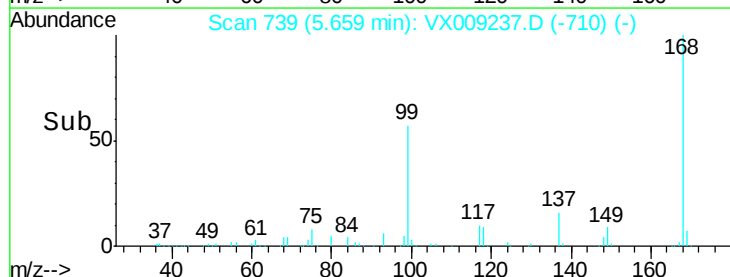
117 100

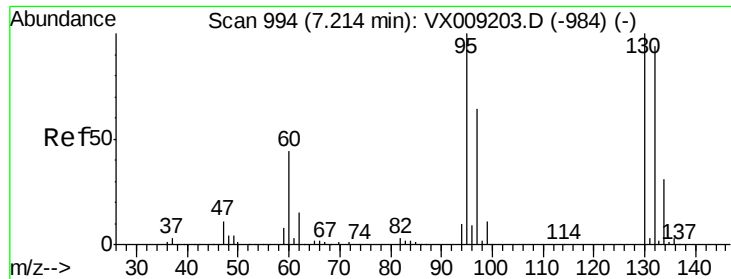
119 4.8 77.5 116.3#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VX009237.D (-710) (-)

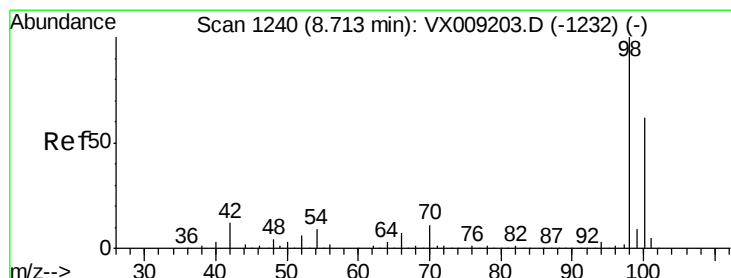
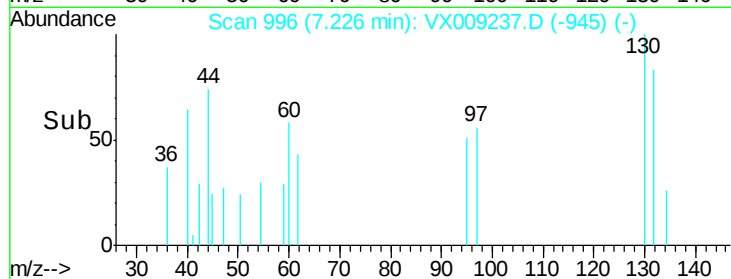
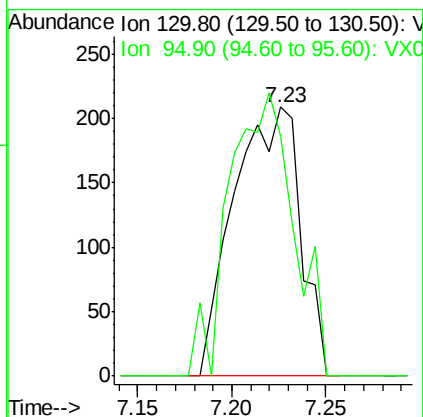
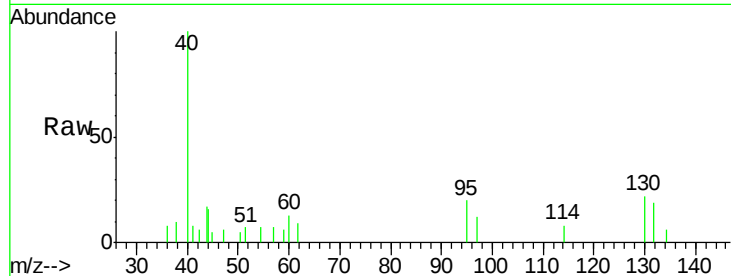




#44
 Trichloroethene
 Concen: 0.219 ug/l
 RT: 7.23 min Scan# 996
 Delta R.T. 0.01 min
 Lab File: VX009237.D
 Acq: 30 Apr 2019 11:47

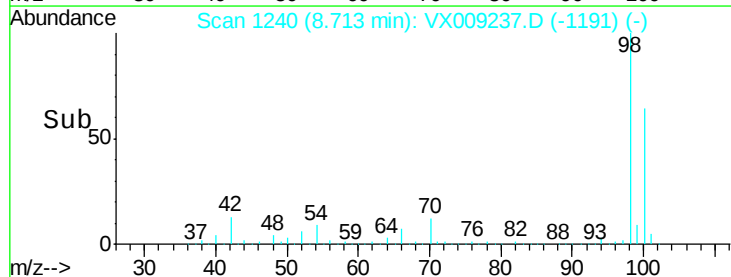
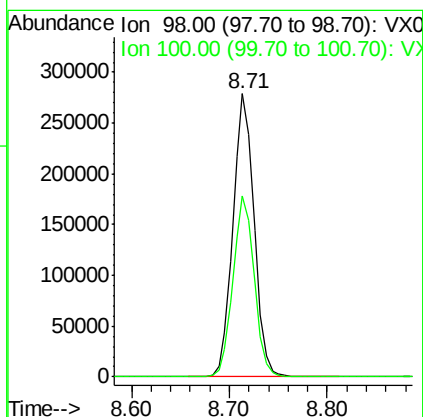
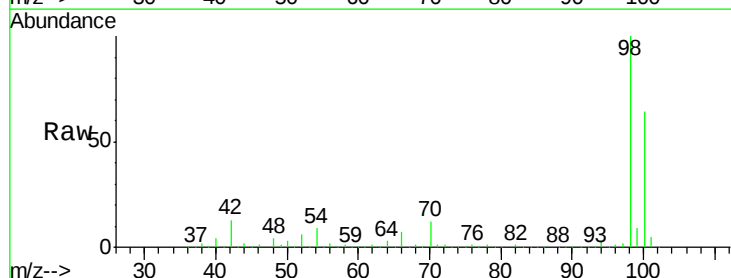
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW174-190423

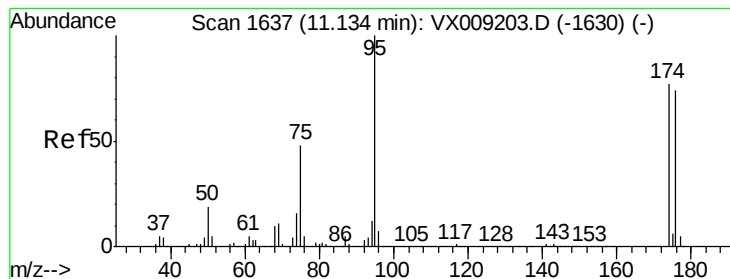
Tot Ion:130 Resp: 511
 Ion Ratio Lower Upper
 130 100
 95 89.0 0.0 199.2



#50
 Toluene-d8
 Concen: 49.148 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009237.D
 Acq: 30 Apr 2019 11:47

Tgt Ion: 98 Resp: 418375
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.2 76.8





#62

4-Bromofluorobenzene

Concen: 44.915 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

WP021MW174-190423

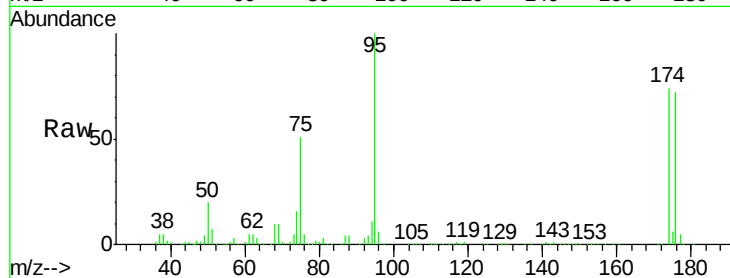
Tot Ion: 95 Resp: 138929

Ion Ratio Lower Upper

95 100

174 80.4 0.0 161.6

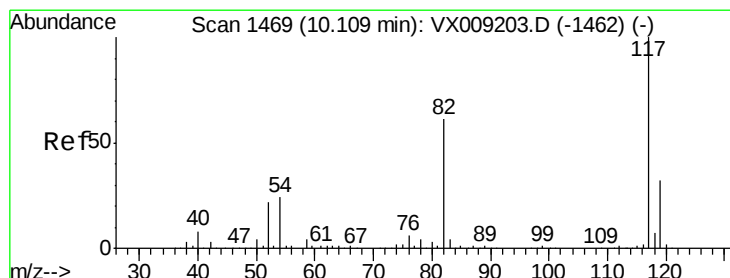
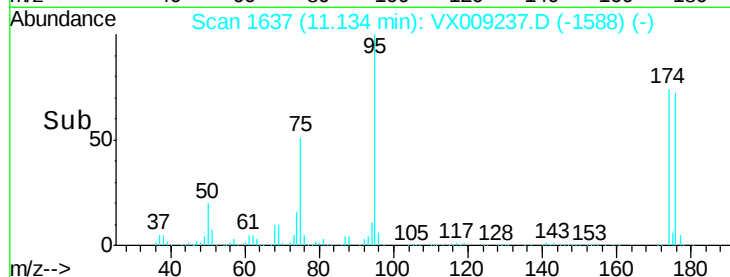
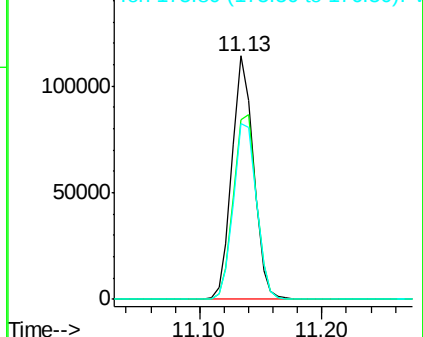
176 77.5 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009237.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009237.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009237.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

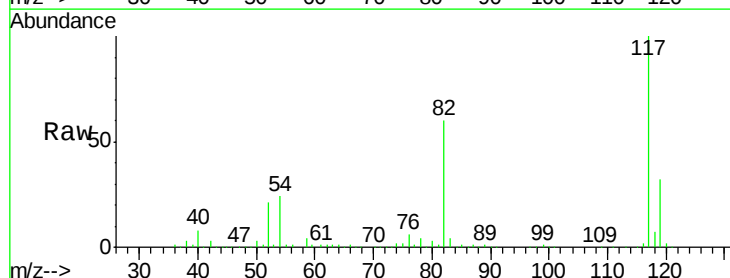
Tgt Ion: 117 Resp: 292180

Ion Ratio Lower Upper

117 100

82 60.2 48.8 73.2

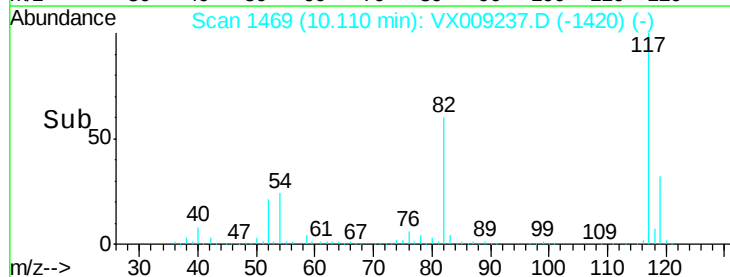
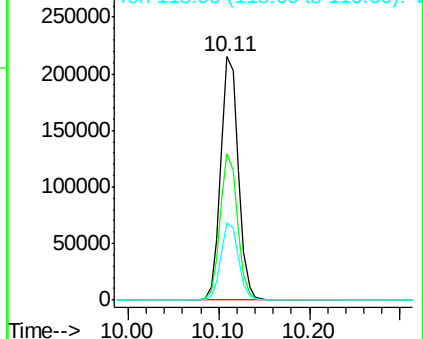
119 31.7 25.8 38.6

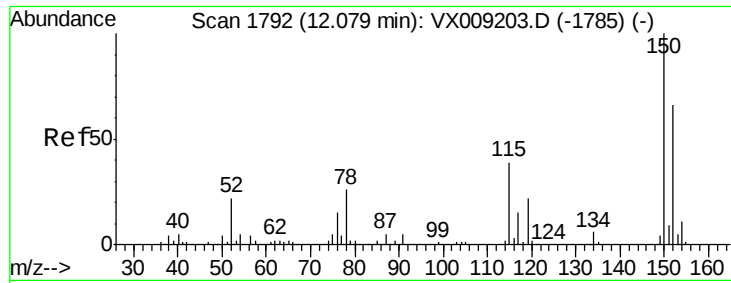


Abundance Ion 116.90 (116.60 to 117.60): VX009237.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009237.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009237.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

WP021MW174-190423

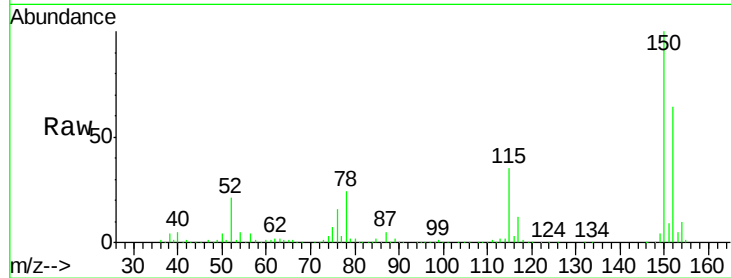
Tot Ion:152 Resp: 121357

Ion Ratio Lower Upper

152 100

115 58.6 41.2 123.6

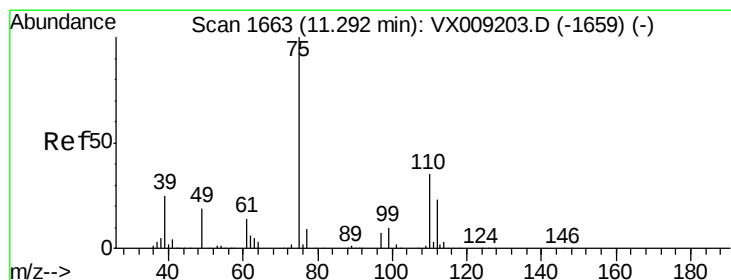
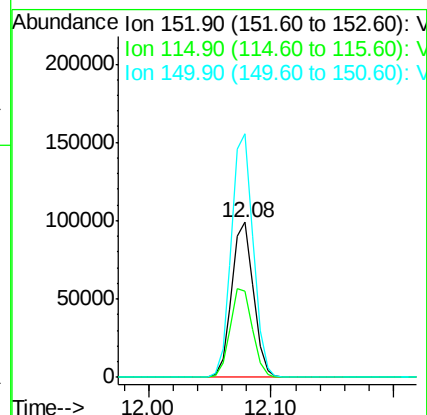
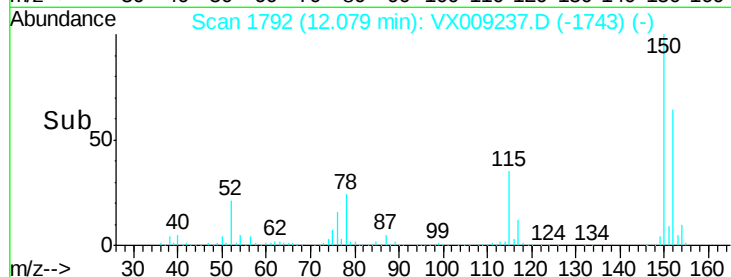
150 157.9 0.0 346.4



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: 24.738 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009237.D

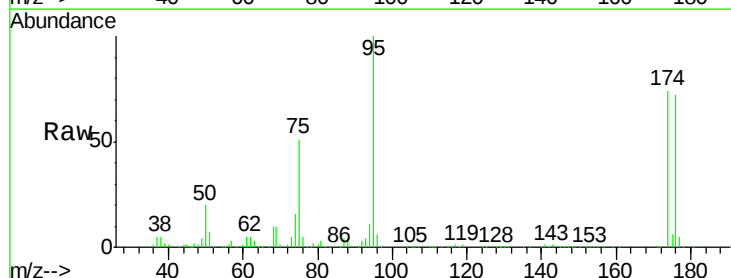
Acq: 30 Apr 2019 11:47

Tgt Ion: 75 Resp: 69638

Ion Ratio Lower Upper

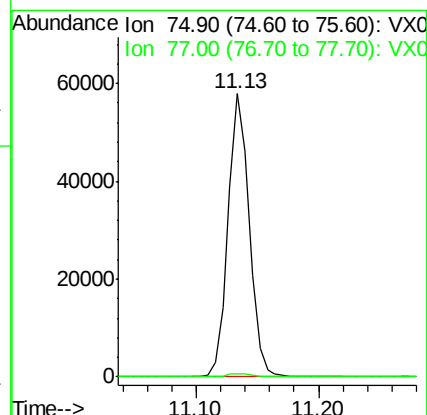
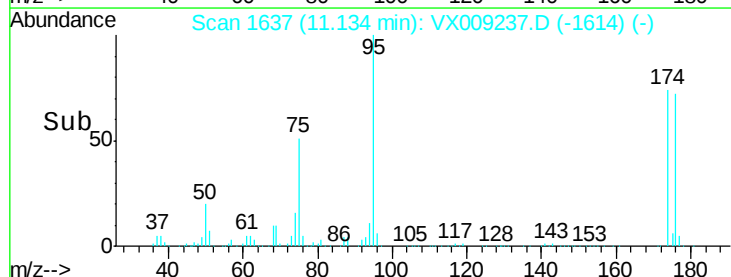
75 100

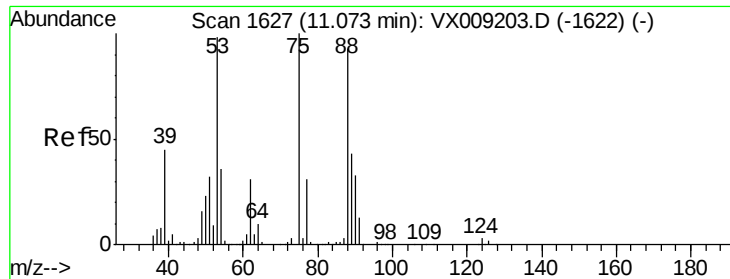
77 1.3 22.1 66.1#



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: 63.295 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009237.D

Acq: 30 Apr 2019 11:47

Instrument :

MSVOA_X

ClientSampleId :

WP021MW174-190423

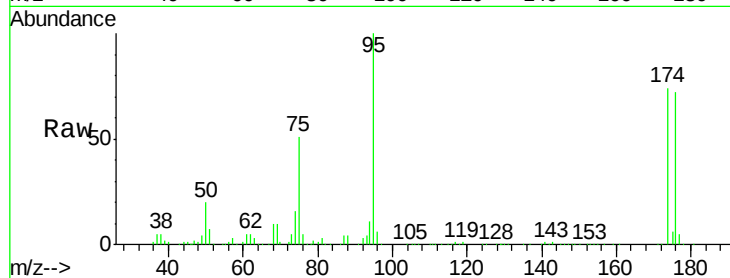
Tot Ion: 75 Resp: 69638

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

