

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041919\
 Data File : VX009076.D
 Acq On : 19 Apr 2019 17:28
 Operator : JC/SP
 Sample : K2487-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GMW-X

Quant Time: Apr 20 00:39:42 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	224998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	370558	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134590	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	155691	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	5.50	113	113382	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	8.71	98	457961	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.13	95	150983	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	

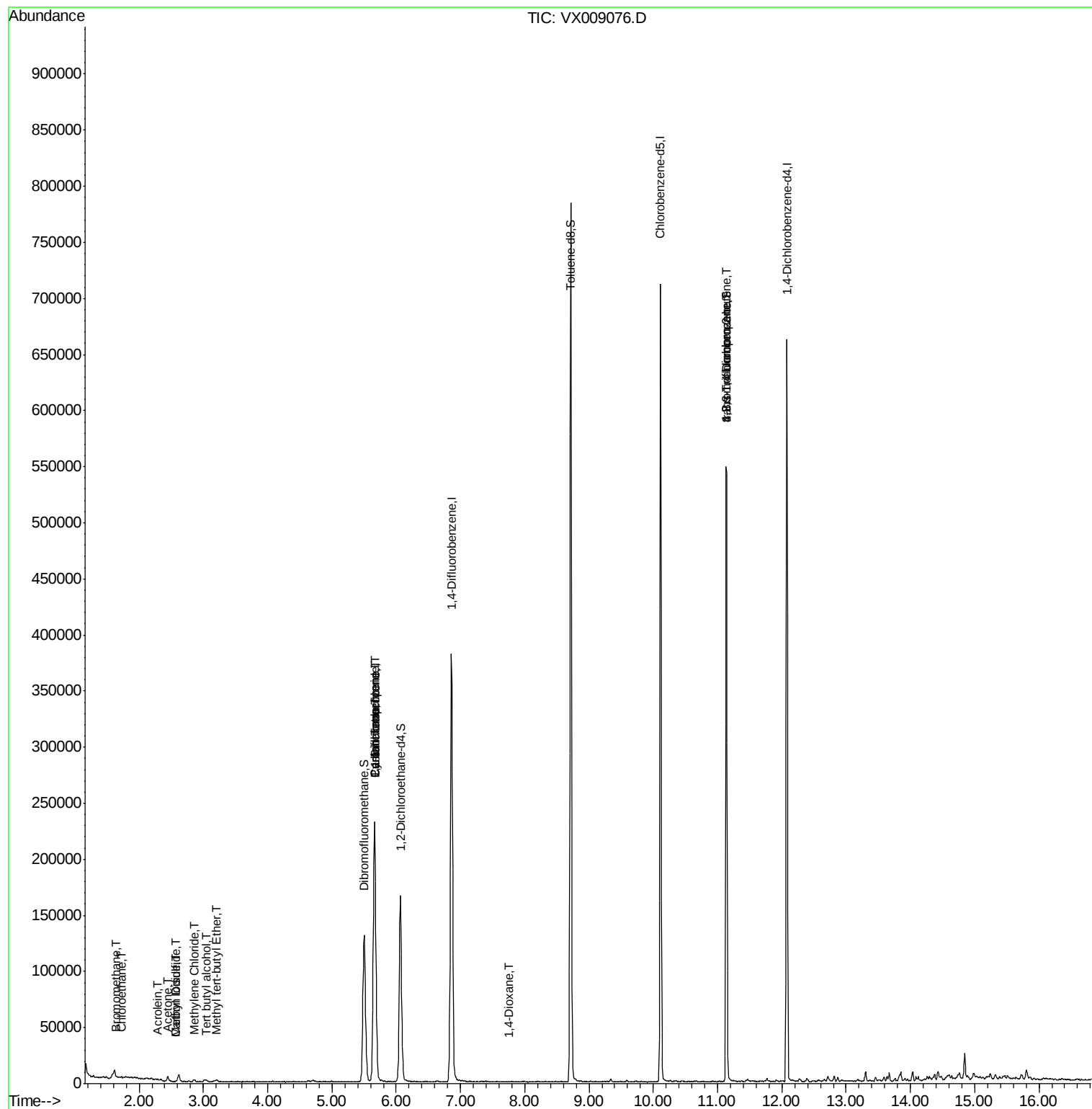
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	414	4.045	ug/l #	52
6) Chloroethane	1.73	64	1450	0.796	ug/l #	49
10) Methyl Iodide	2.57	142	21	4.422	ug/l #	42
11) Tert butyl alcohol	3.05	59	857	1.218	ug/l #	78
13) Acrolein	2.29	56	292	0.480	ug/l #	67
16) Acetone	2.45	43	5139	3.125	ug/l	99
17) Carbon Disulfide	2.57	76	556	1.329	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	2019	0.235	ug/l	97
20) Methylene Chloride	2.86	84	733	0.261	ug/l	90
28) Bromochloromethane	5.04	49	210	Below Cal	#	21
31) Cyclohexane	5.66	56	5249	1.039	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18069	4.715	ug/l #	50
38) Carbon Tetrachloride	5.66	117	21481	6.612	ug/l #	18
49) 1,4-Dioxane	7.76	88	66	0.898	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	76340	23.229	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76340	59.635	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampleId :

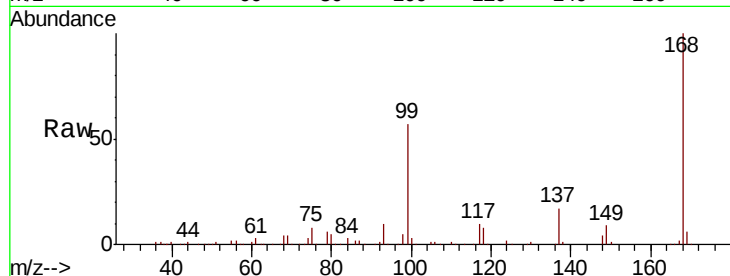
GMW-X

Tot Ion:168 Resp: 224998

Ion Ratio Lower Upper

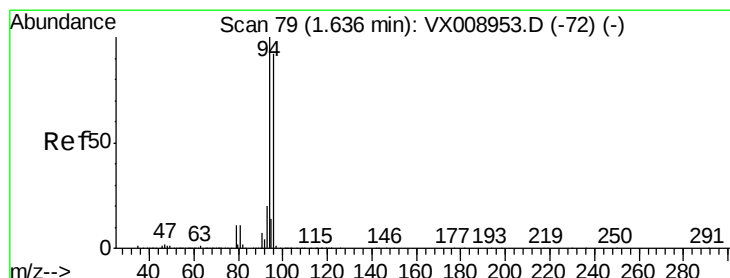
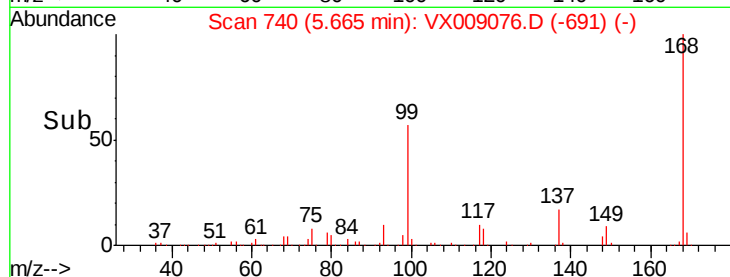
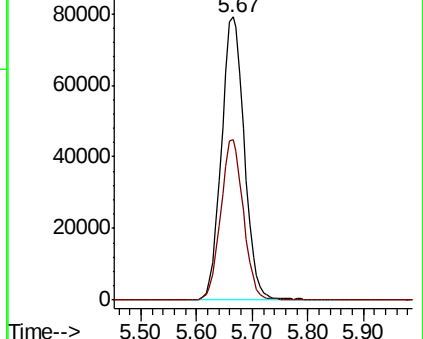
168 100

99 56.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 4.045 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009076.D

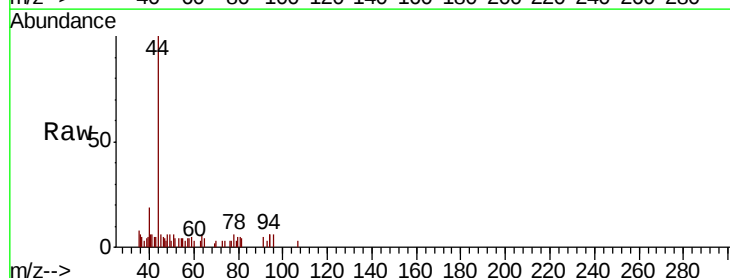
Acq: 19 Apr 2019 17:28

Tgt Ion: 94 Resp: 414

Ion Ratio Lower Upper

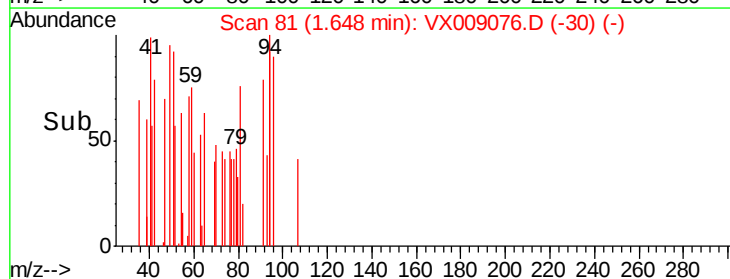
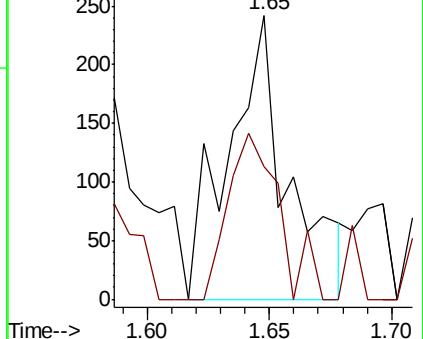
94 100

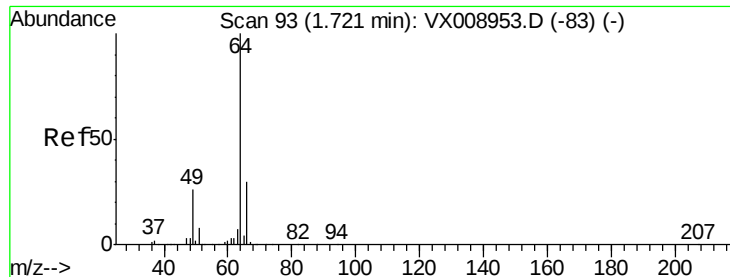
96 46.7 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.796 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampled :

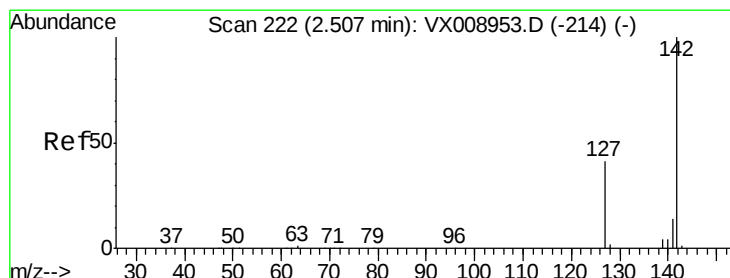
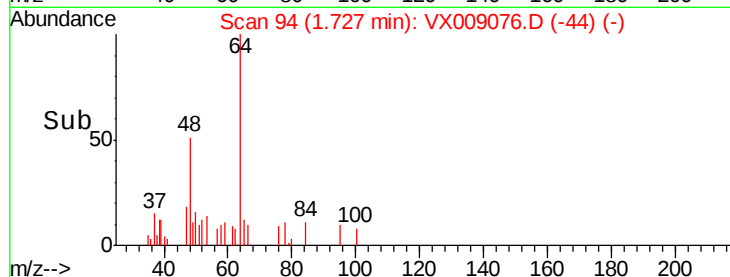
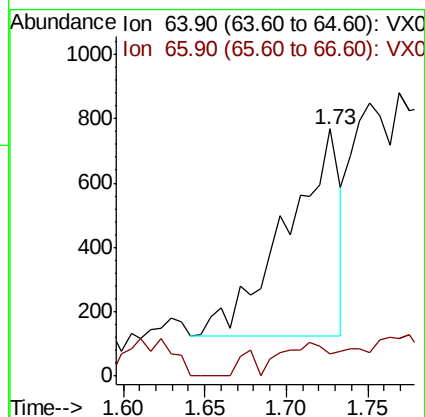
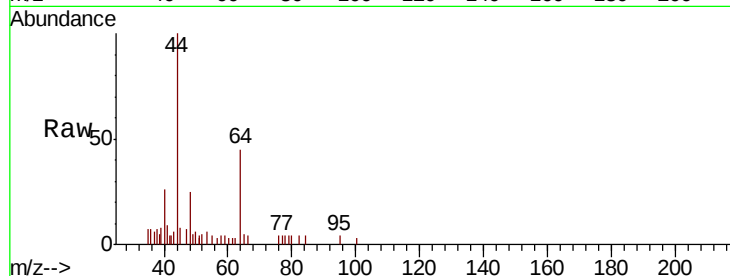
GMW-X

Tot Ion: 64 Resp: 1450

Ion Ratio Lower Upper

64 100

66 2.5 24.2 36.2#



#10

Methyl Iodide

Concen: 4.422 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.06 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

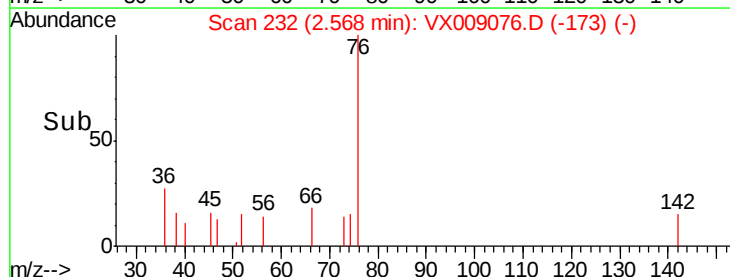
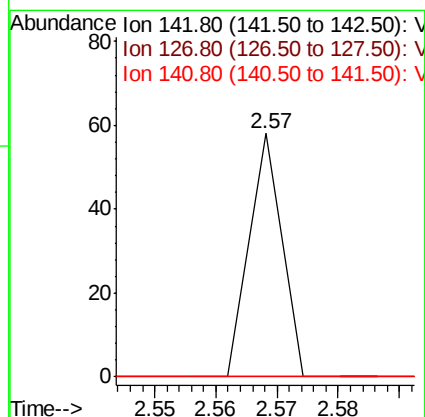
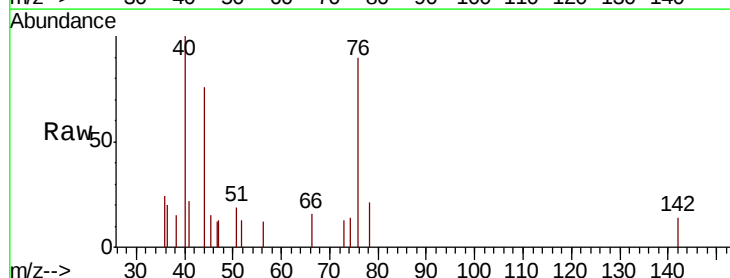
Tgt Ion: 142 Resp: 21

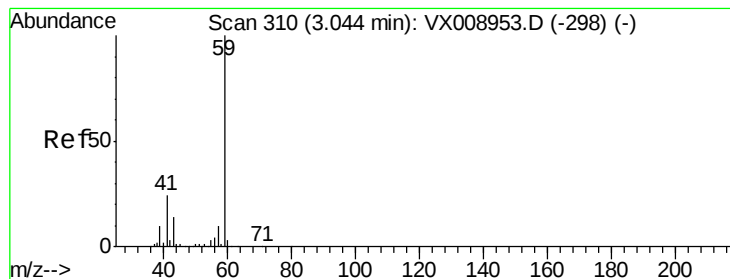
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 1.218 ug/l

RT: 3.05 min Scan# 311

Delta R.T. 0.01 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampled :

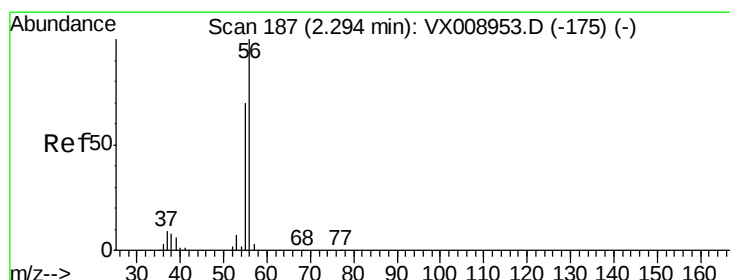
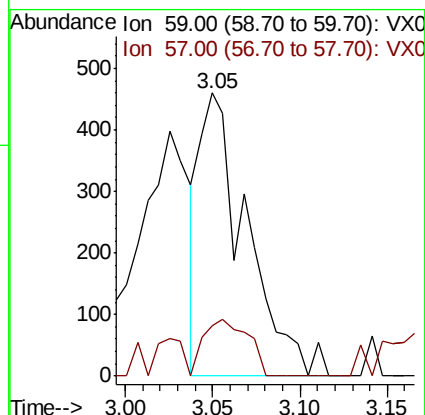
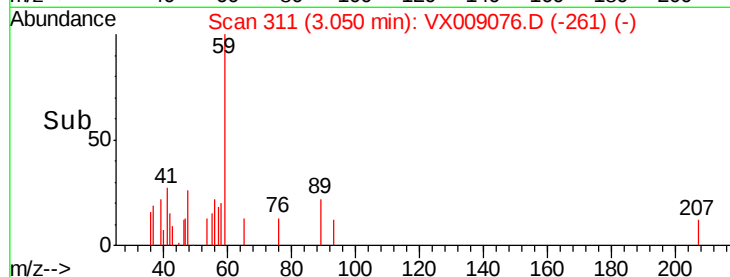
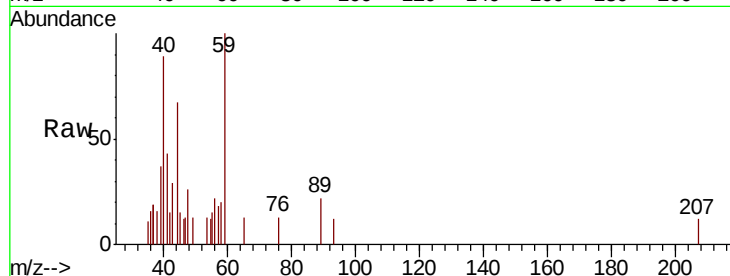
GMW-X

Tot Ion: 59 Resp: 857

Ion Ratio Lower Upper

59 100

57 18.9 8.4 12.6#



#13

Acrolein

Concen: 0.480 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009076.D

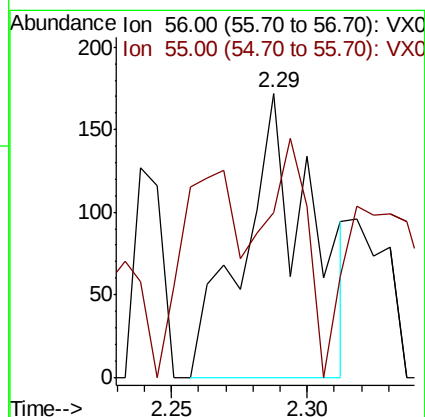
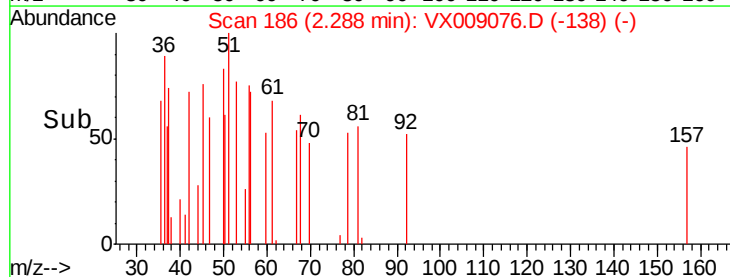
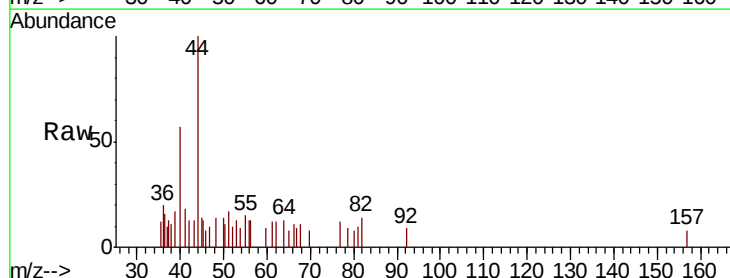
Acq: 19 Apr 2019 17:28

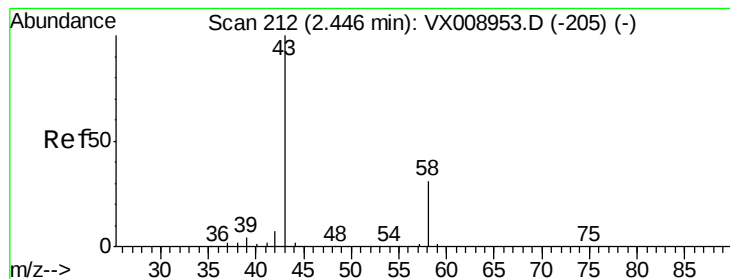
Tgt Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 43.8 56.6 84.8#





#16

Acetone

Concen: 3.125 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampled :

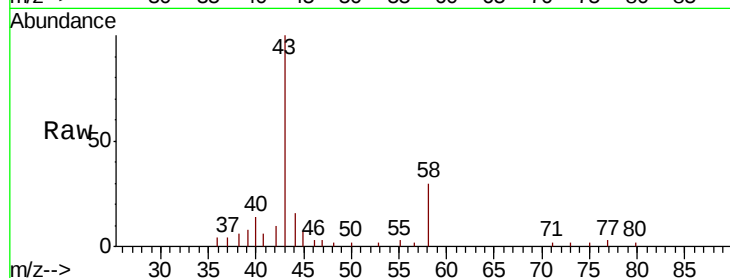
GMW-X

Tot Ion: 43 Resp: 5139

Ion Ratio Lower Upper

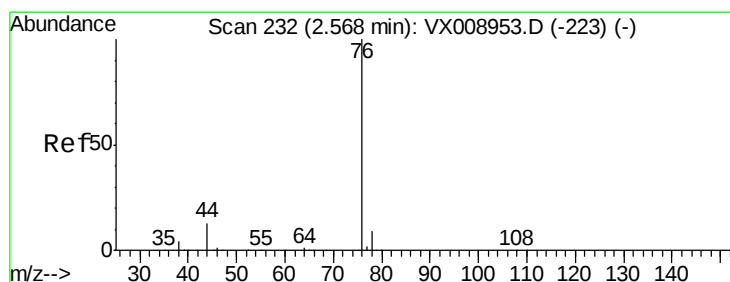
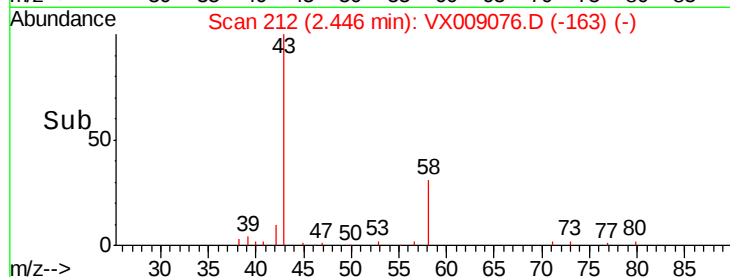
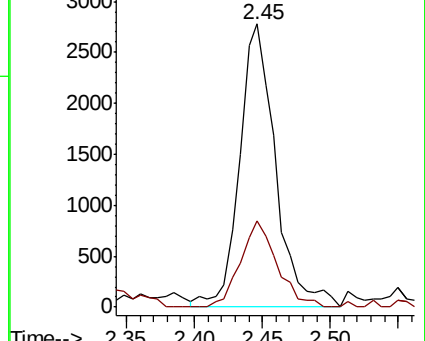
43 100

58 30.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.329 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009076.D

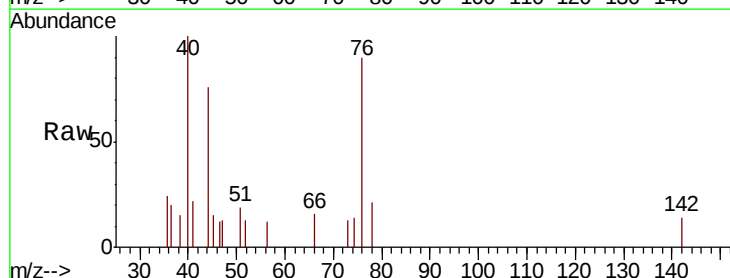
Acq: 19 Apr 2019 17:28

Tgt Ion: 76 Resp: 556

Ion Ratio Lower Upper

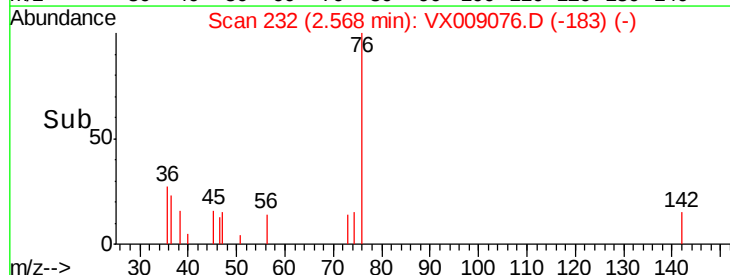
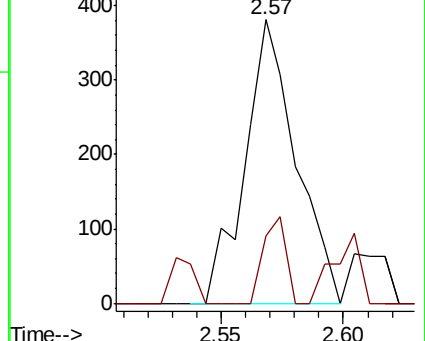
76 100

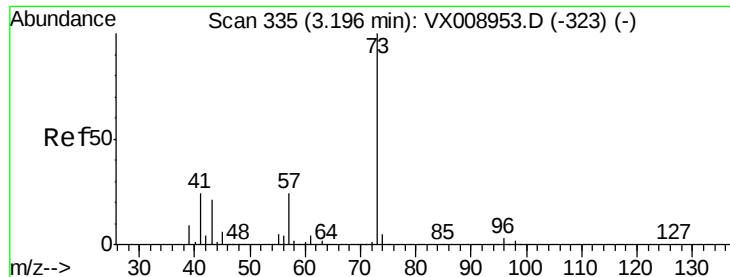
78 10.2 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

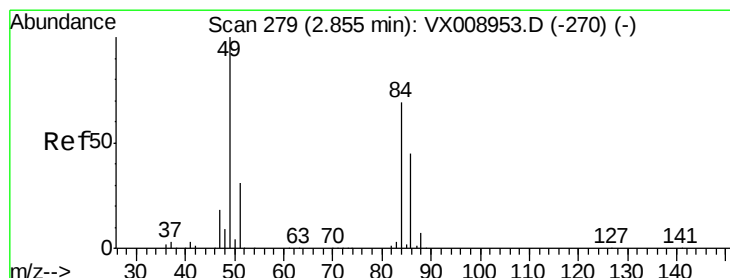
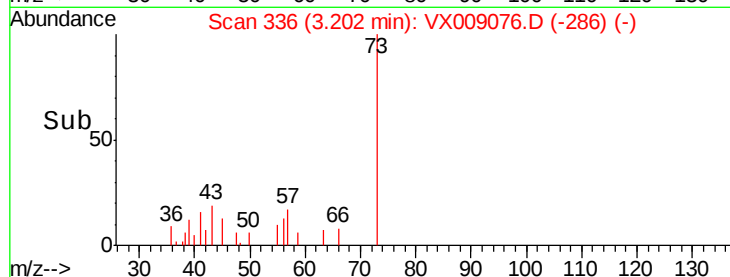
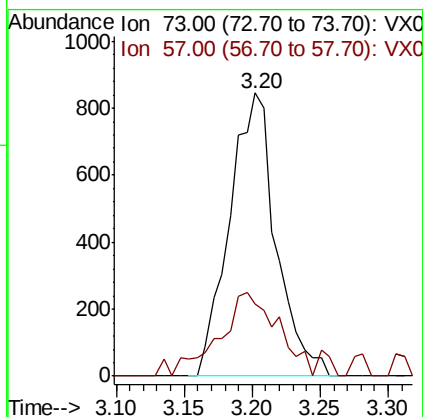
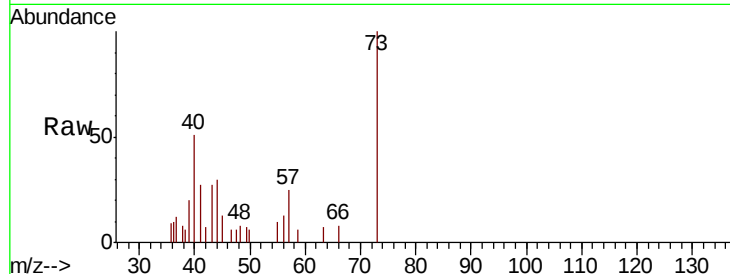




#19
Methvl tert-butvl Ether
Concen: 0.235 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.01 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

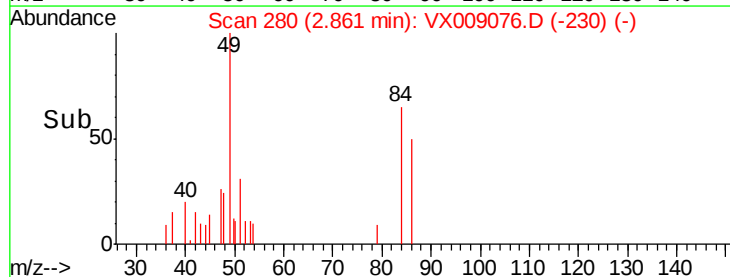
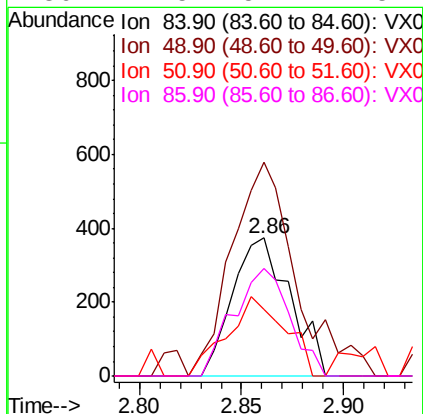
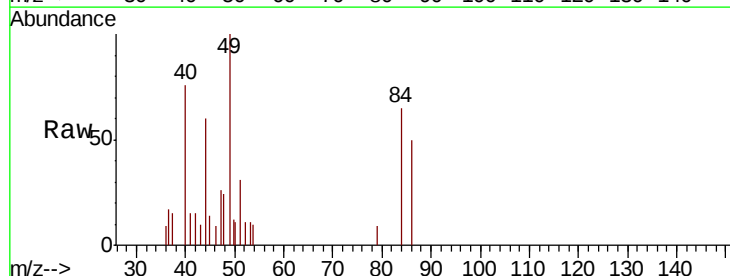
Instrument :
MSVOA_X
ClientSampleId :
GMW-X

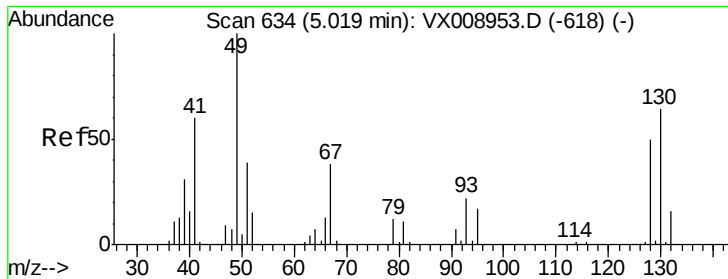
Tot Ion: 73 Resp: 2019
Ion Ratio Lower Upper
73 100
57 25.4 19.2 28.8



#20
Methylene Chloride
Concen: 0.261 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

Tgt Ion: 84 Resp: 733
Ion Ratio Lower Upper
84 100
49 154.5 115.4 173.0
51 48.1 35.8 53.6
86 77.5 52.1 78.1





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampleId :

GMW-X

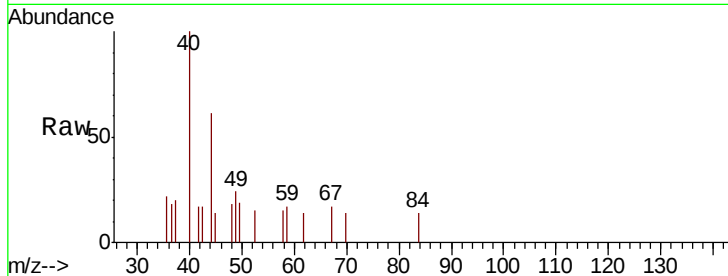
Tot Ion: 49 Resp: 210

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

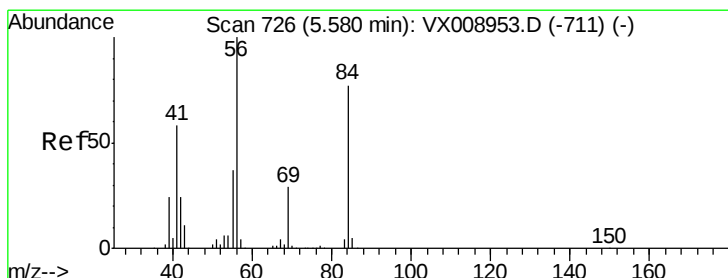
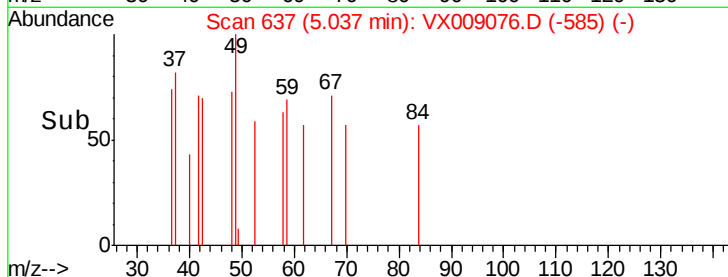
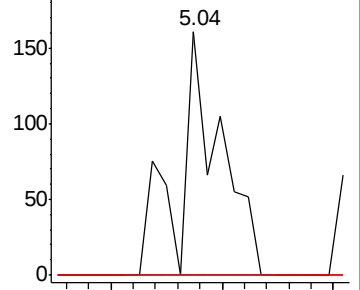
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.039 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

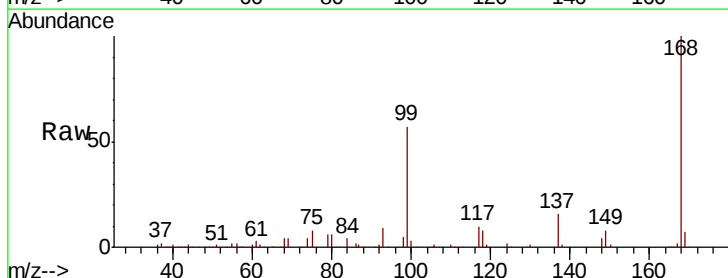
Tgt Ion: 56 Resp: 5249

Ion Ratio Lower Upper

56 100

69 182.9 23.3 34.9#

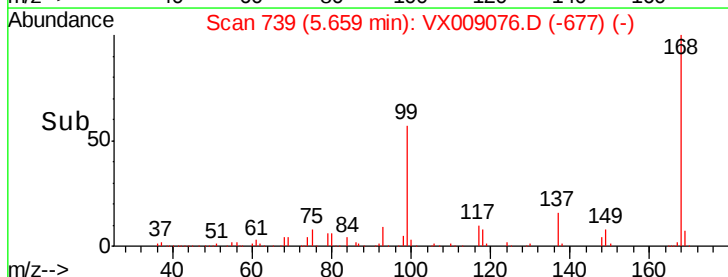
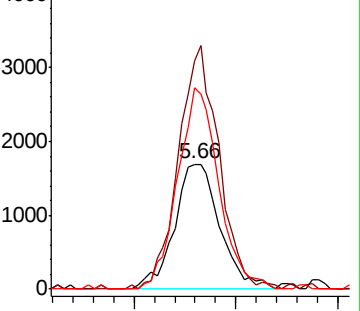
84 162.1 61.7 92.5#

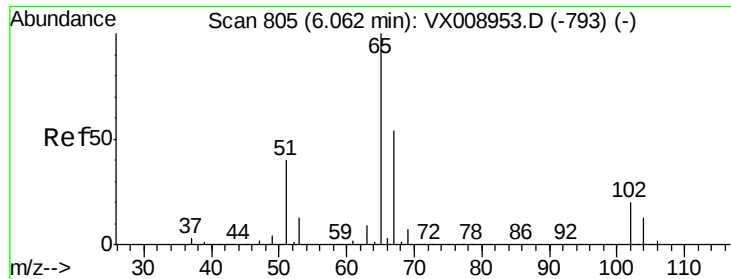


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.101 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampleId :

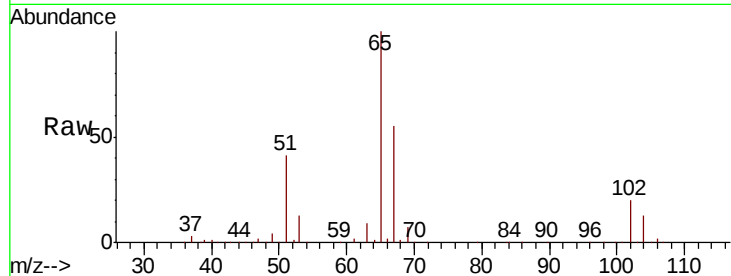
GMW-X

Tot Ion: 65 Resp: 155691

Ion Ratio Lower Upper

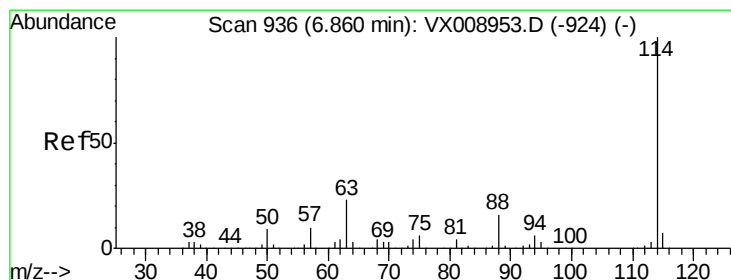
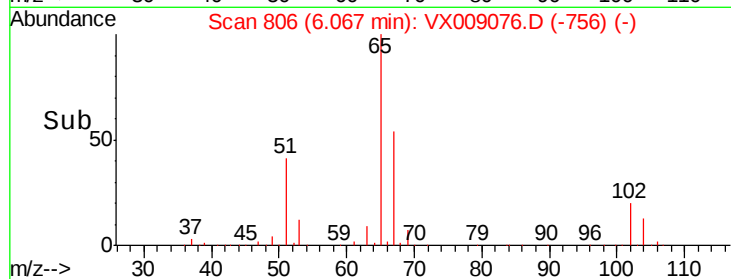
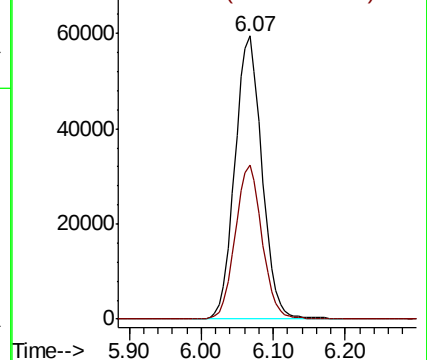
65 100

67 53.9 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: VX009076.D

Acq: 19 Apr 2019 17:28

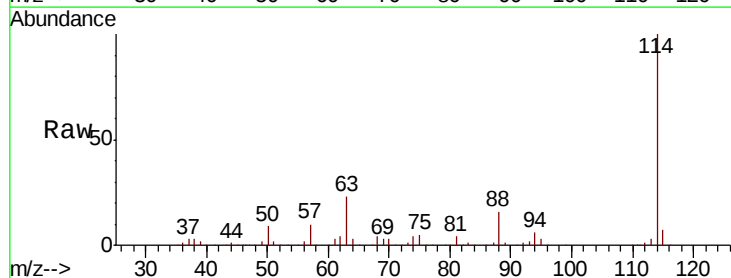
Tgt Ion: 114 Resp: 370558

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.0

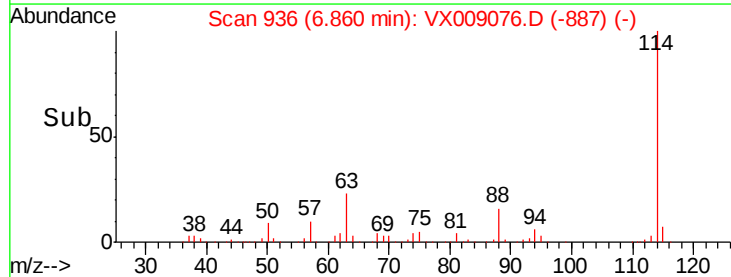
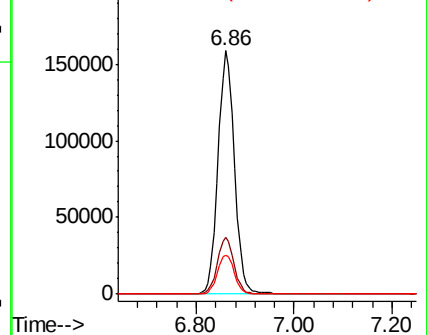
88 16.1 0.0 32.6

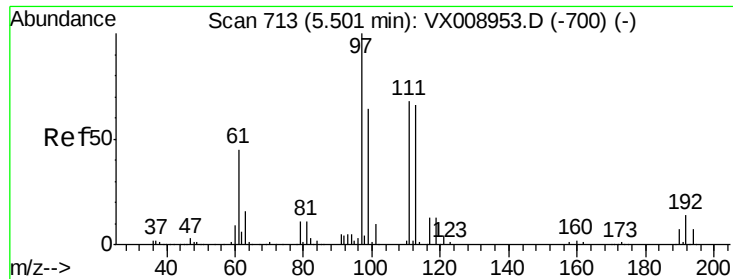


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

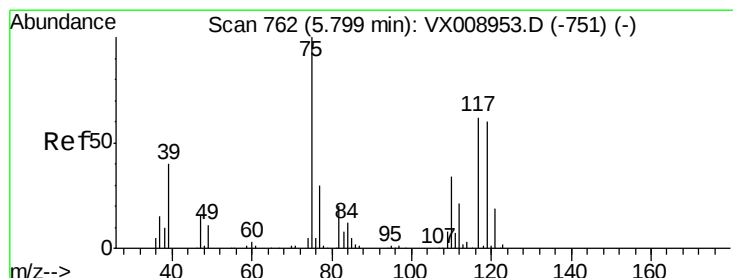
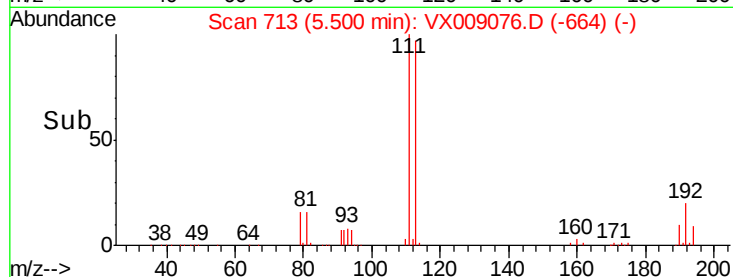
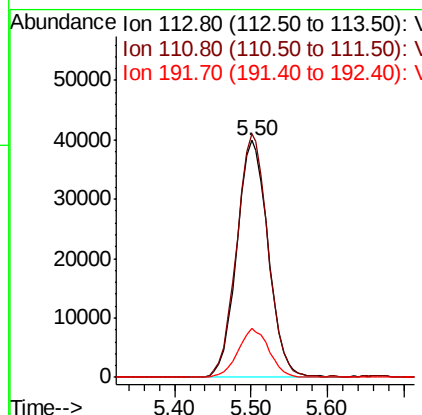
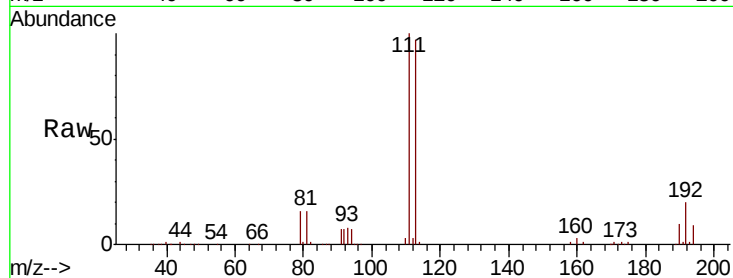




#35
 Dibromofluoromethane
 Concen: 47.676 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009076.D
 Acq: 19 Apr 2019 17:28

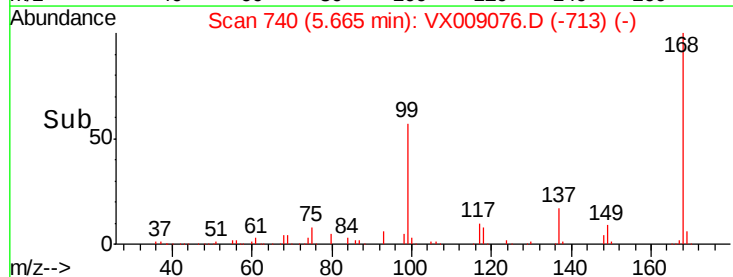
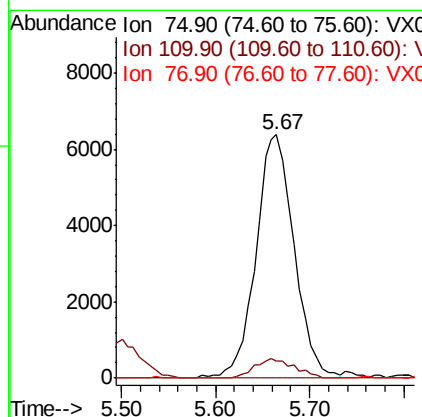
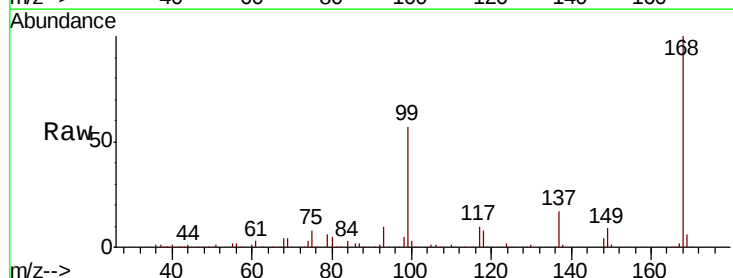
Instrument :
 MSVOA_X
 ClientSampled :
 GMW-X

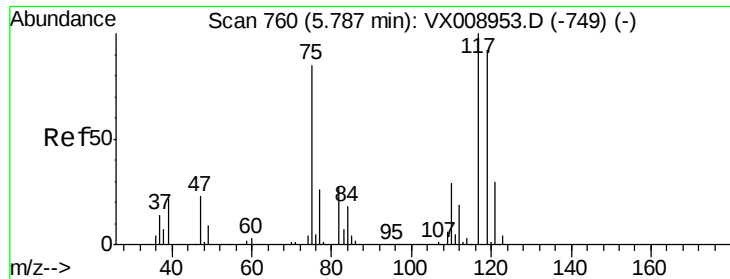
Tot Ion:113 Resp: 113382
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.9 124.3
 192 20.4 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.715 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009076.D
 Acq: 19 Apr 2019 17:28

Tgt Ion: 75 Resp: 18069
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.9 50.7#
 77 0.0 25.0 37.4#

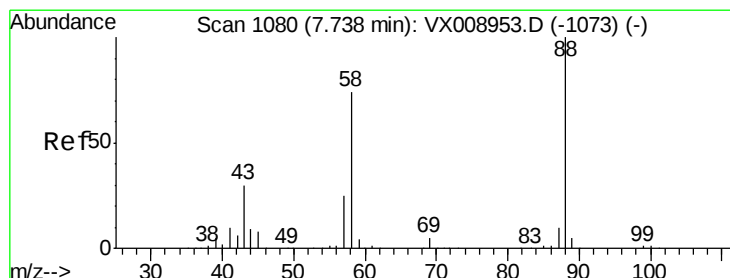
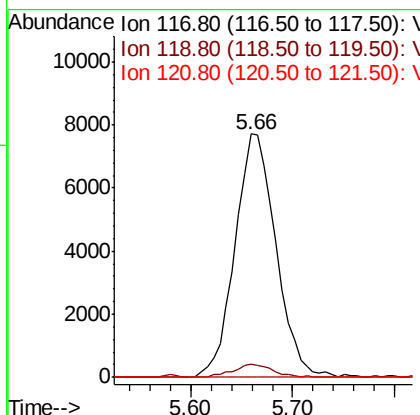
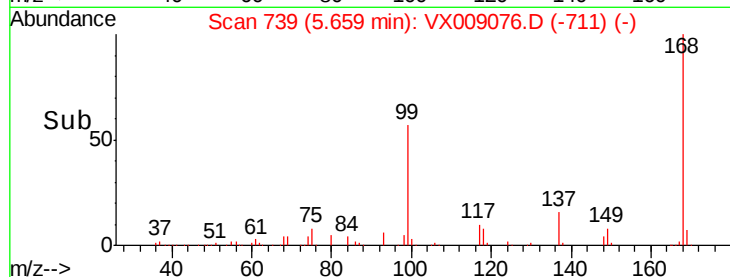
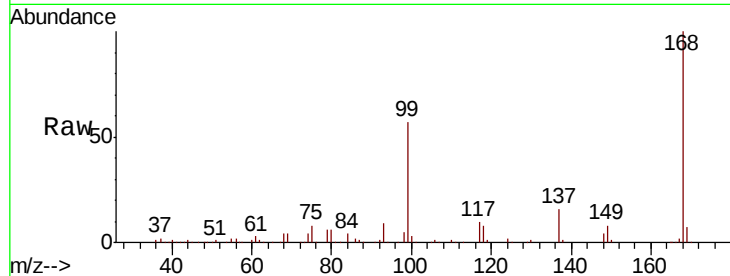




#38
Carbon Tetrachloride
Concen: 6.612 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

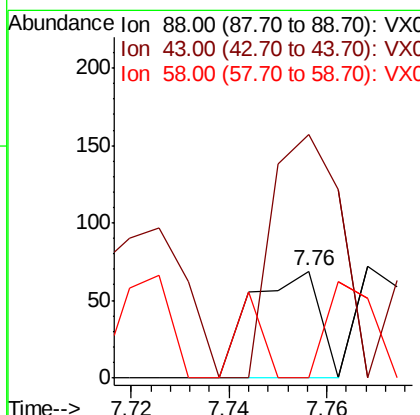
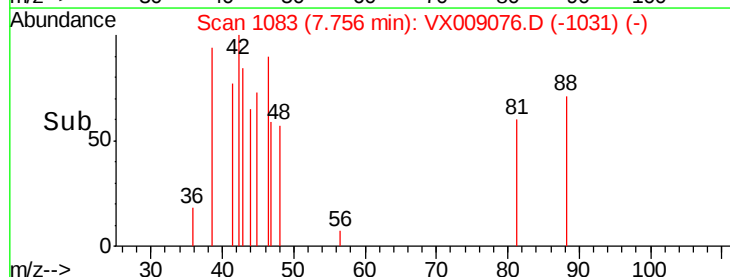
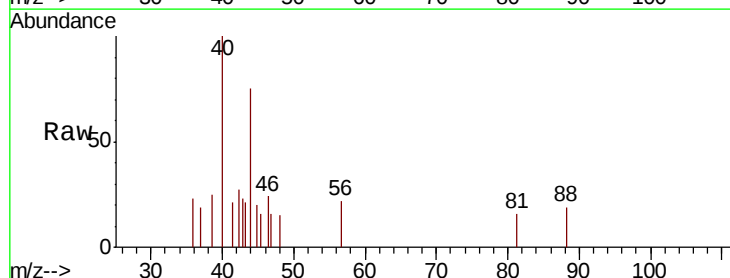
Instrument :
MSVOA_X
ClientSampled :
GMW-X

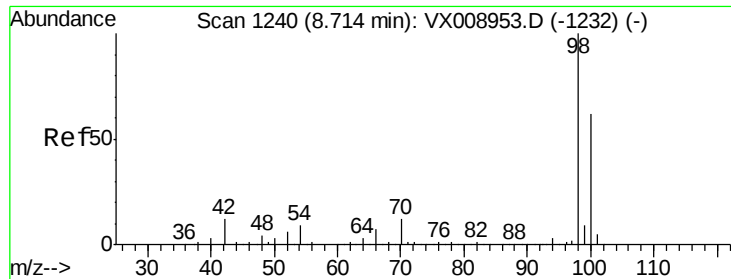
Tot Ion:117 Resp: 21481
Ion Ratio Lower Upper
117 100
119 5.4 73.8 110.8#
121 0.0 23.6 35.4#



#49
1,4-Dioxane
Concen: 0.898 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 231.8 29.3 43.9#
58 30.3 62.6 93.8#





#50

Toluene-d8

Concen: 48.287 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampleId :

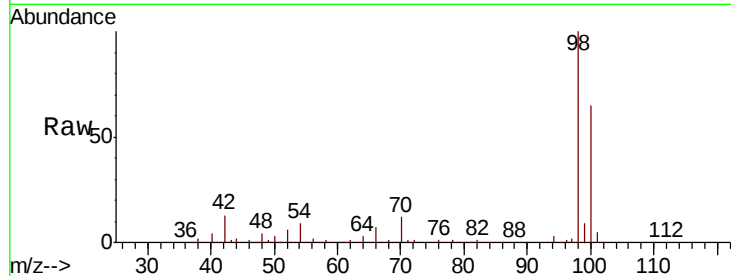
GMW-X

Tot Ion: 98 Resp: 457961

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): V>

8.71

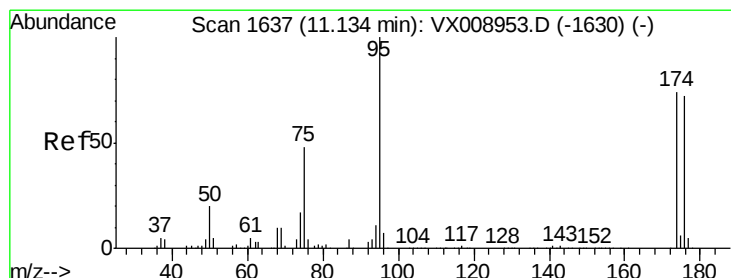
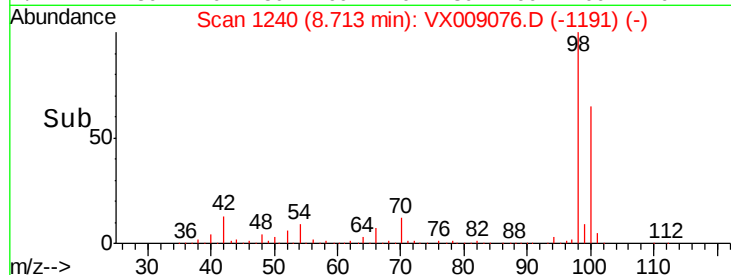
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.097 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

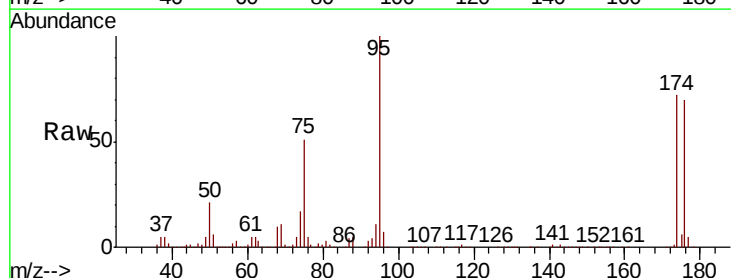
Tgt Ion: 95 Resp: 150983

Ion Ratio Lower Upper

95 100

174 78.1 0.0 159.6

176 75.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

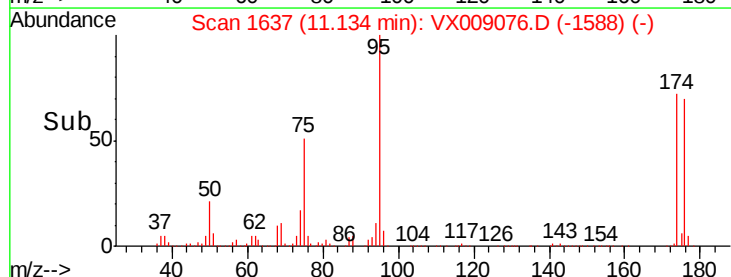
150000

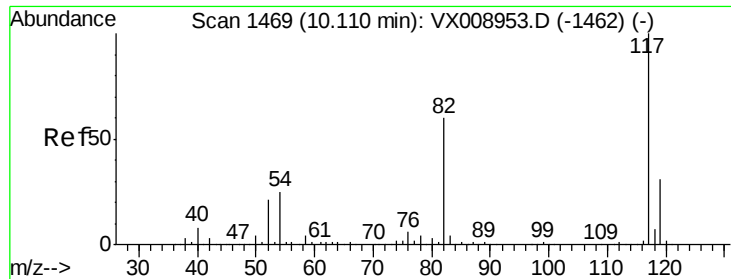
100000

50000

0

Time-->

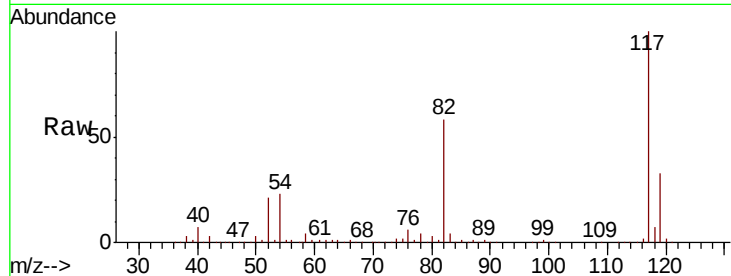




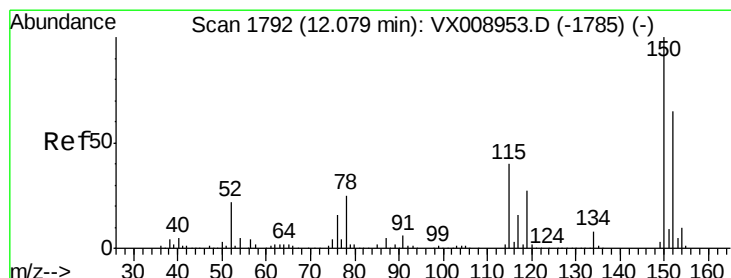
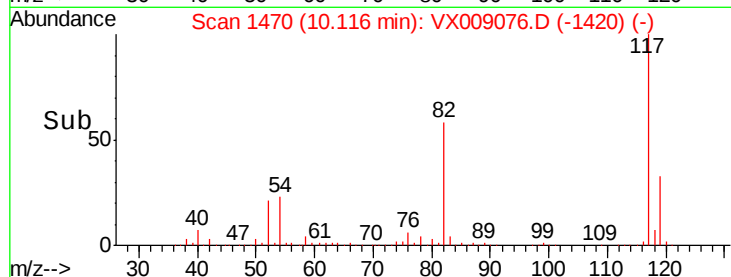
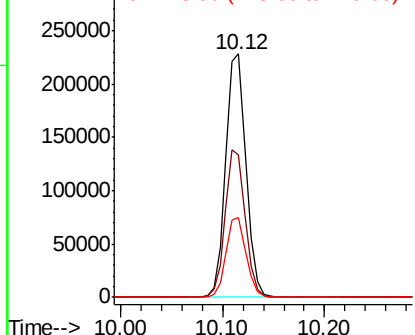
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

Instrument :
MSVOA_X
ClientSampleId :
GMW-X

Tot Ion:117 Resp: 313729
Ion Ratio Lower Upper
117 100
82 58.5 48.2 72.4
119 32.6 25.0 37.6

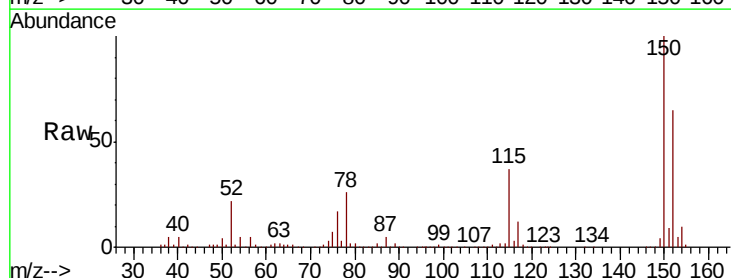


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

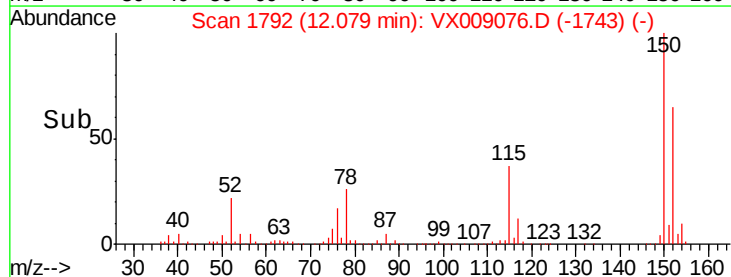
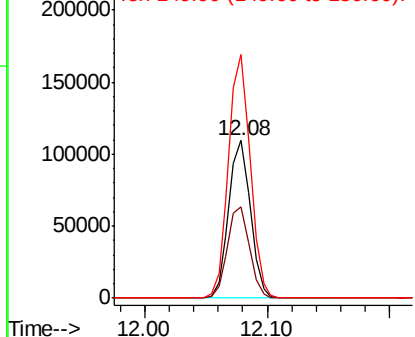


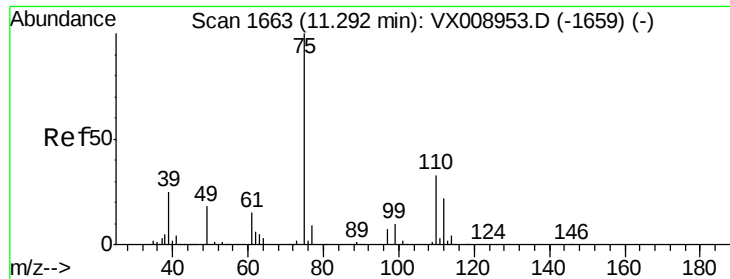
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009076.D
Acq: 19 Apr 2019 17:28

Tgt Ion:152 Resp: 134590
Ion Ratio Lower Upper
152 100
115 58.7 41.4 124.2
150 154.6 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: 23.229 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

Instrument :

MSVOA_X

ClientSampleId :

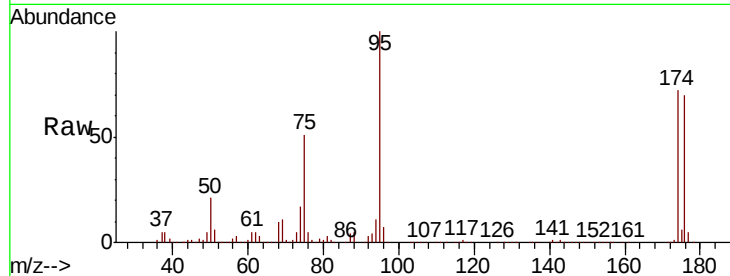
GMW-X

Tot Ion: 75 Resp: 76340

Ion Ratio Lower Upper

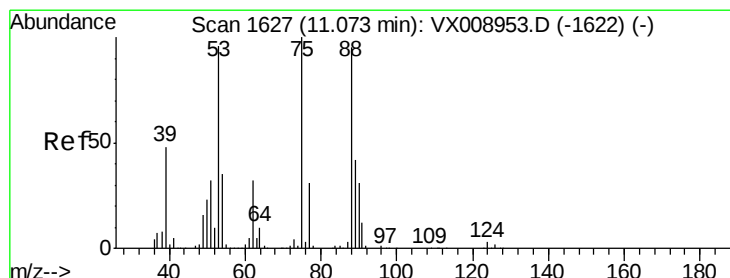
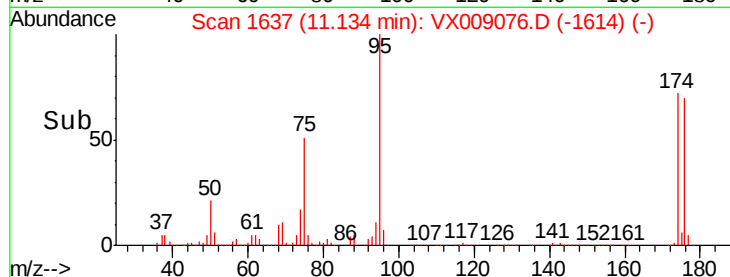
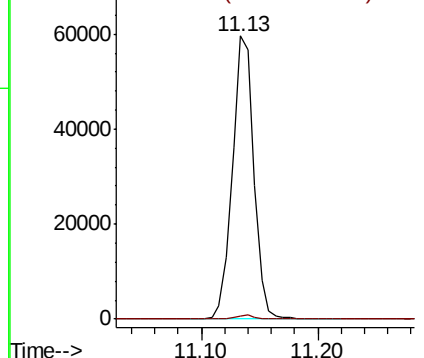
75 100

77 1.4 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 59.635 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009076.D

Acq: 19 Apr 2019 17:28

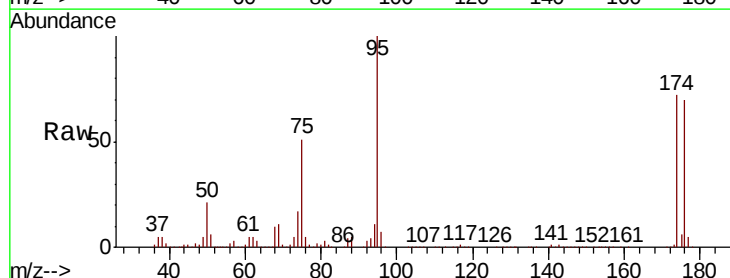
Tgt Ion: 75 Resp: 76340

Ion Ratio Lower Upper

75 100

53 0.3 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

