

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\
 Data File : VX002351.D
 Acq On : 06 Jun 2018 14:36
 Operator : JC/MD
 Sample : J2688-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-1(GW)

Quant Time: Jun 07 03:22:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	309581	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	132573	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	148135	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	5.51	113	111183	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	
50) Toluene-d8	8.72	98	438362	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
62) 4-Bromofluorobenzene	11.14	95	139335	38.72	ug/l	0.00
Spiked Amount			Recovery	=	77.44%	

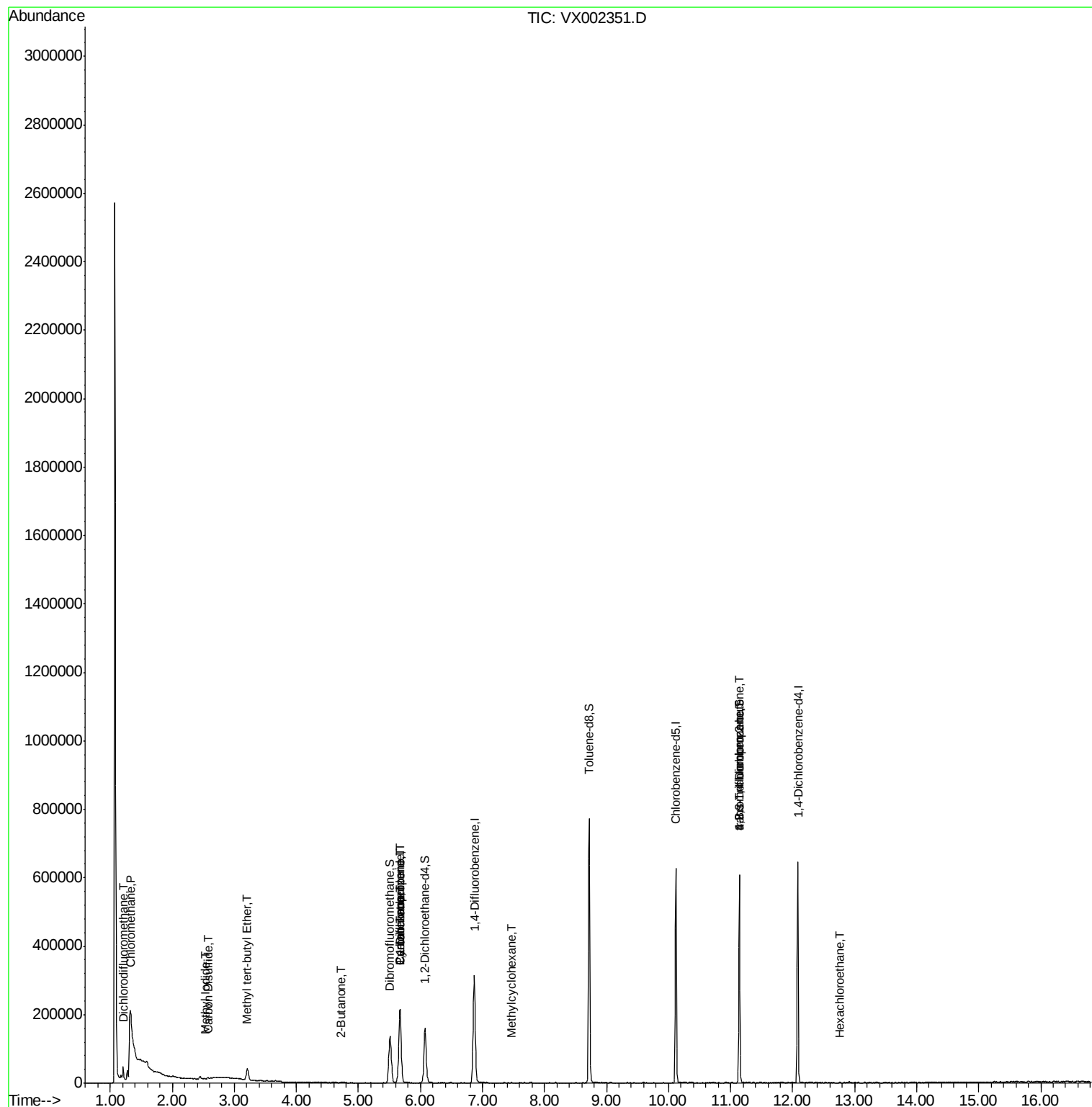
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	472	0.22	ug/l	82
3) Chloromethane	1.33	50	15661	3.58	ug/l	# 72
5) Bromomethane	1.66	94	1043	Below	Cal	# 78
8) Diethyl Ether	2.19	74	391	Below	Cal	# 89
10) Methyl Iodide	2.53	142	1312	0.41	ug/l	# 86
11) Tert butyl alcohol	3.06	59	253	Below	Cal	# 73
13) Acrolein	2.30	56	300	Below	Cal	# 90
15) Acrylonitrile	3.12	53	264	Below	Cal	# 29
16) Acetone	2.45	43	8346	Below	Cal	# 93
17) Carbon Disulfide	2.57	76	6397	1.08	ug/l	# 97
18) Methyl Acetate	2.78	43	634	Below	Cal	# 66
19) Methyl tert-butyl Ether	3.21	73	35652	2.28	ug/l	100
20) Methylene Chloride	2.86	84	198	Below	Cal	# 28
22) Diisopropyl ether	3.89	45	180	Below	Cal	# 35
25) 2-Butanone	4.71	43	1056	0.51	ug/l	94
28) Bromochloromethane	4.99	49	57	Below	Cal	# 13
31) Cyclohexane	5.67	56	5025	1.32	ug/l	# 8
36) 1,1-Dichloropropene	5.67	75	15041	4.62	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	19298	5.67	ug/l	# 16
39) Methylcyclohexane	7.47	83	40	0.27	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	75896	26.09	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	75896	91.45	ug/l	# 6
90) Hexachloroethane	12.76	117	301	0.23	ug/l	# 1

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

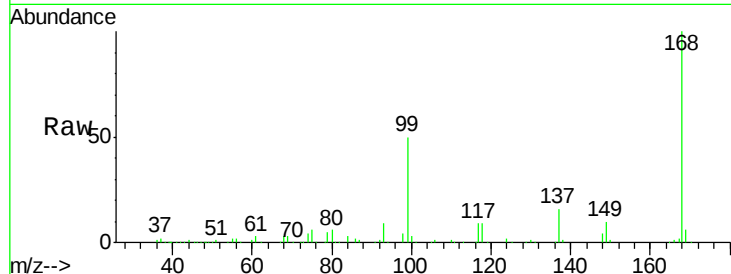
B-1(GW)

Tot Ion:168 Resp: 210626

Ion Ratio Lower Upper

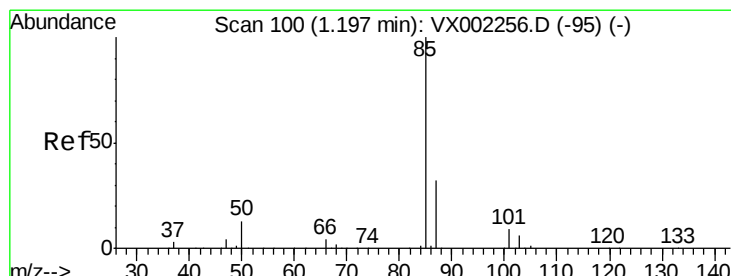
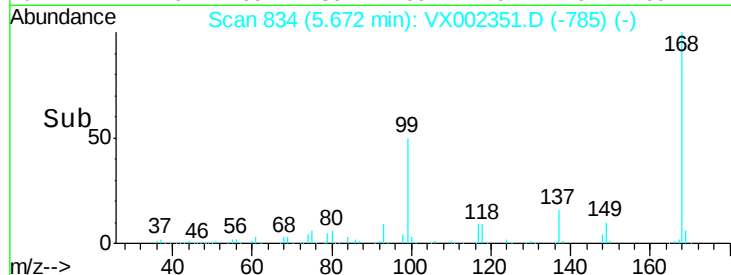
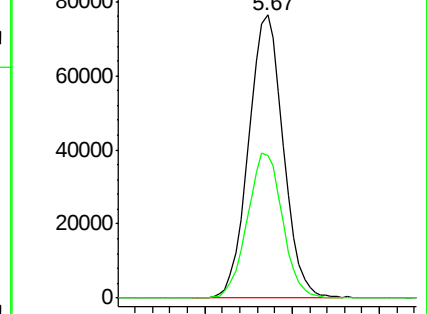
168 100

99 50.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.22 ug/l

RT: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002351.D

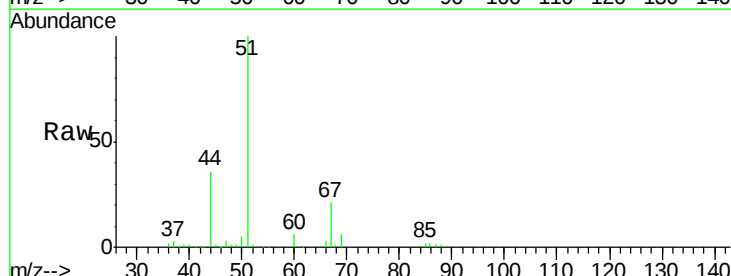
Acq: 06 Jun 2018 14:36

Tgt Ion: 85 Resp: 472

Ion Ratio Lower Upper

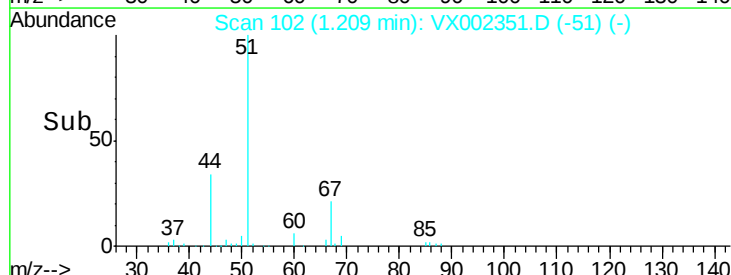
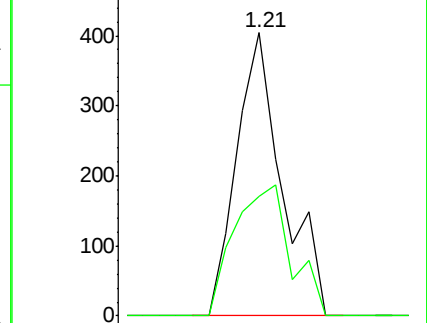
85 100

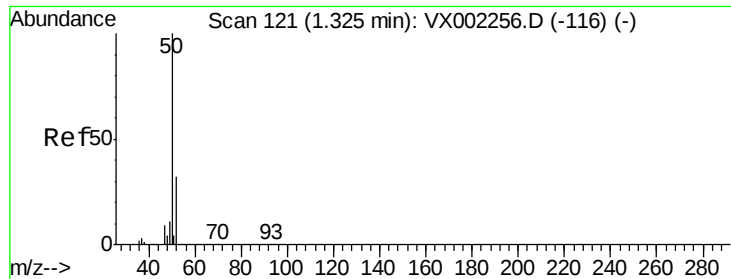
87 42.1 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 3.58 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

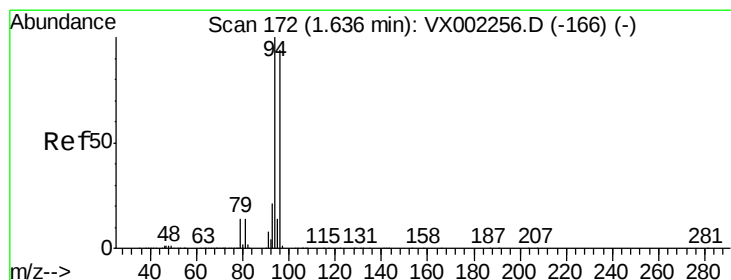
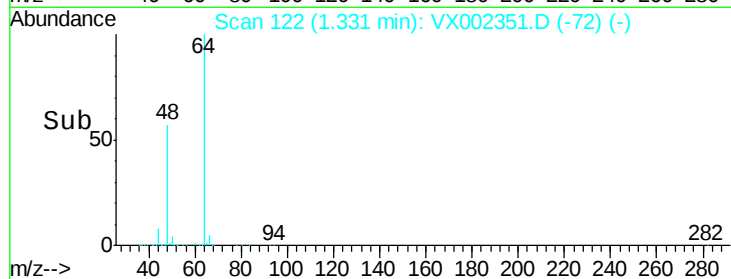
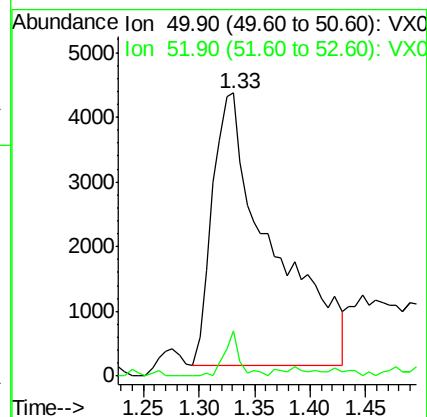
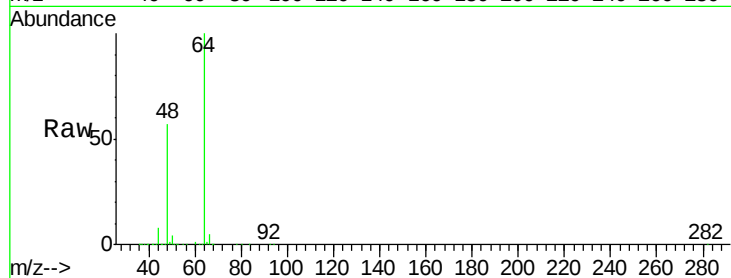
B-1(GW)

Tot Ion: 50 Resp: 15661

Ion Ratio Lower Upper

50 100

52 16.5 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002351.D

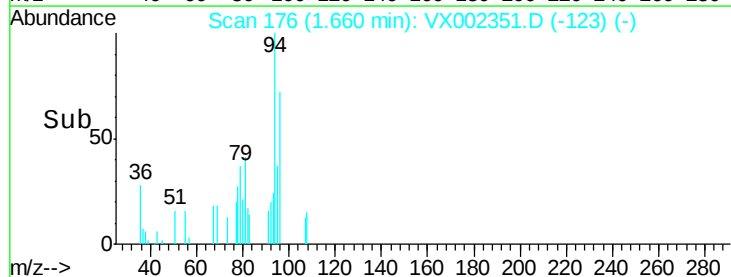
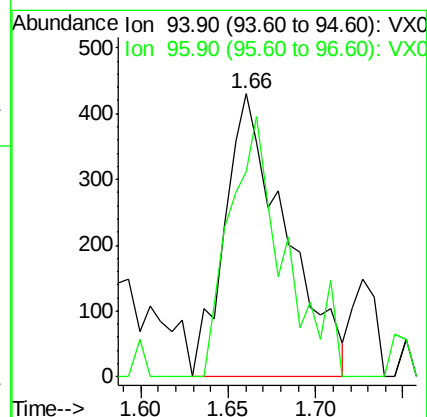
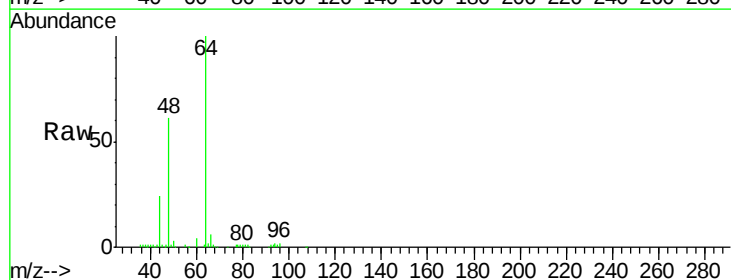
Acq: 06 Jun 2018 14:36

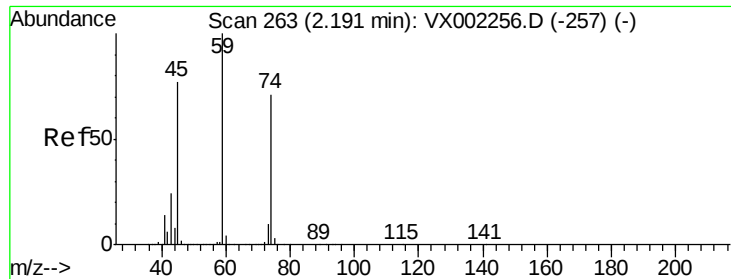
Tgt Ion: 94 Resp: 1043

Ion Ratio Lower Upper

94 100

96 72.3 74.9 112.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampled :

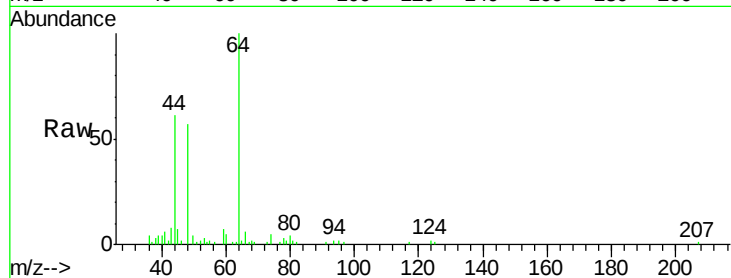
B-1(GW)

Tot Ion: 74 Resp: 391

Ion Ratio Lower Upper

74 100

45 94.9 53.1 159.4



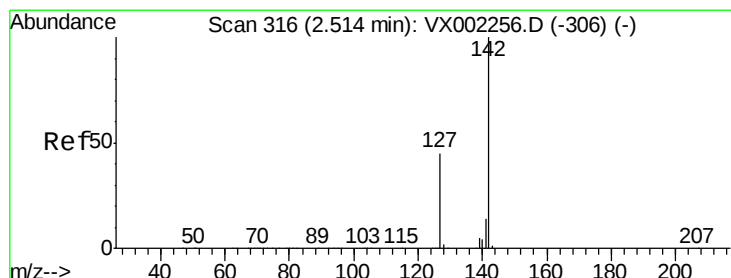
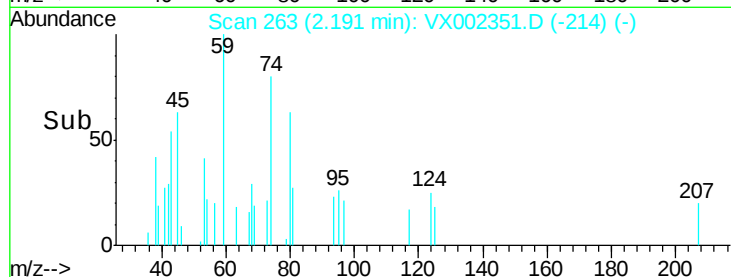
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

Time-->

2.16 2.18 2.20 2.22



#10

Methyl Iodide

Concen: 0.41 ug/l

RT: 2.53 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

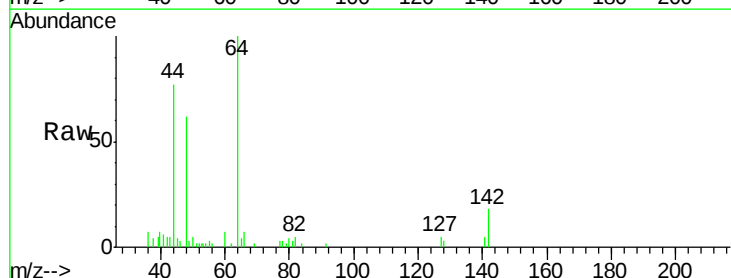
Tgt Ion: 142 Resp: 1312

Ion Ratio Lower Upper

142 100

127 54.4 36.6 55.0

141 21.3 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

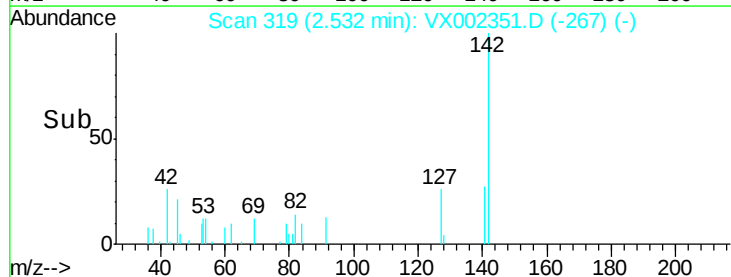
Ion 126.80 (126.50 to 127.50): V

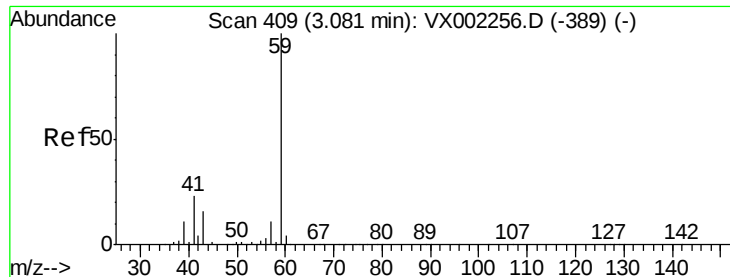
Ion 140.80 (140.50 to 141.50): V

2.53

Time-->

2.45 2.50 2.55 2.60

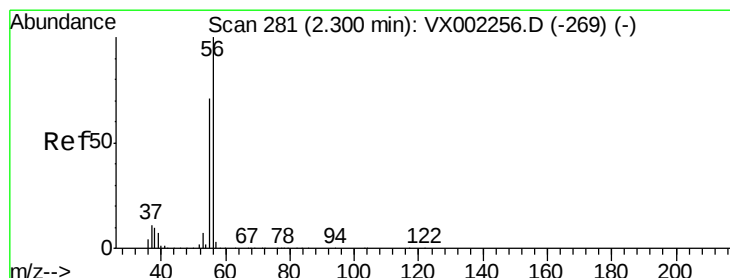
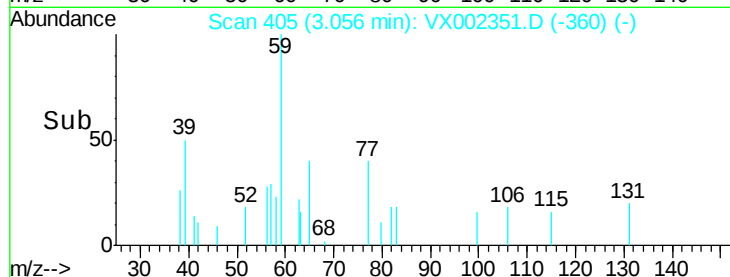
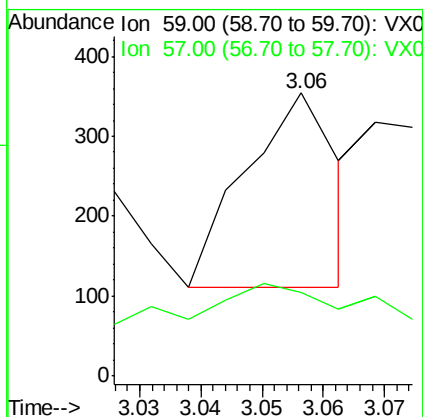
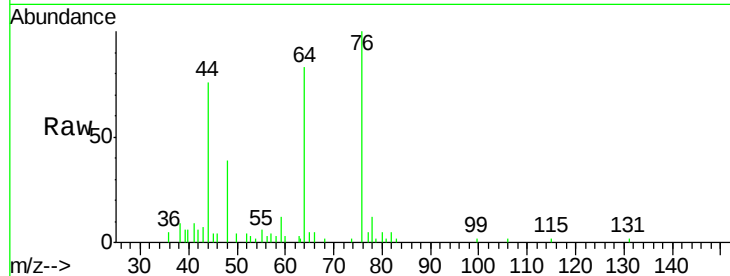




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 405
Delta R.T. -0.02 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

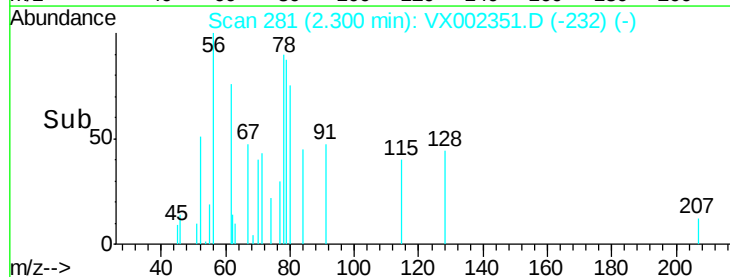
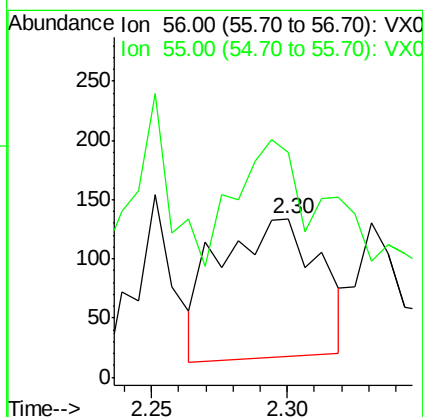
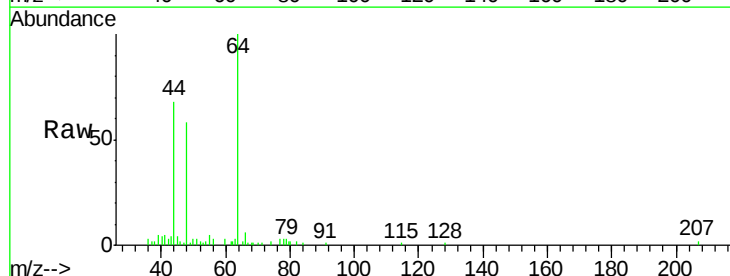
Instrument :
MSVOA_X
ClientSampleId :
B-1(GW)

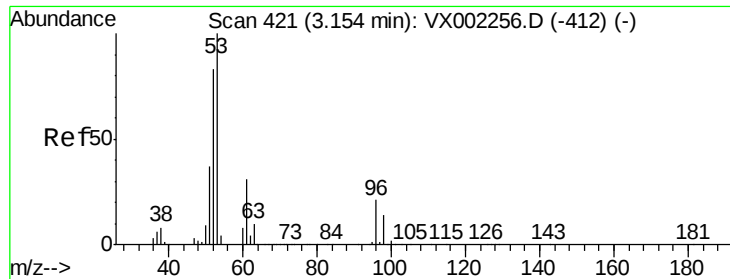
Tot Ion: 59 Resp: 253
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

Tgt Ion: 56 Resp: 300
Ion Ratio Lower Upper
56 100
55 79.3 57.0 85.4





#15

Acrylonitrile

Concen: Below Cal

RT: 3.12 min Scan# 415

Delta R.T. -0.04 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

B-1(GW)

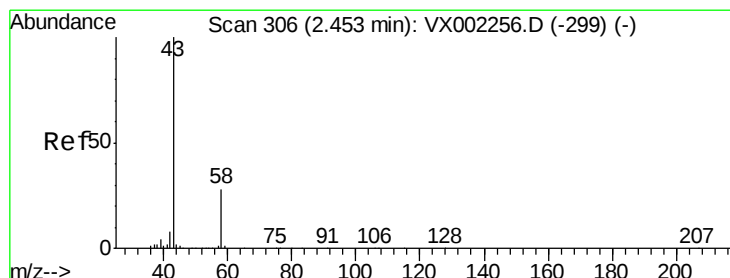
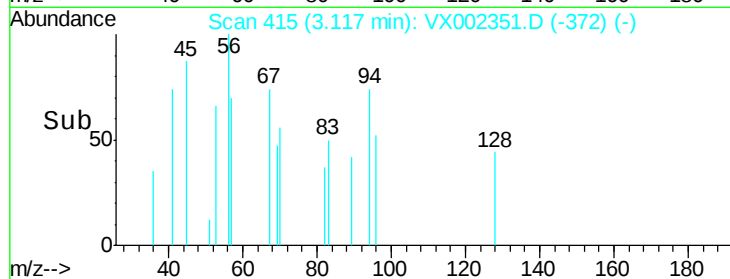
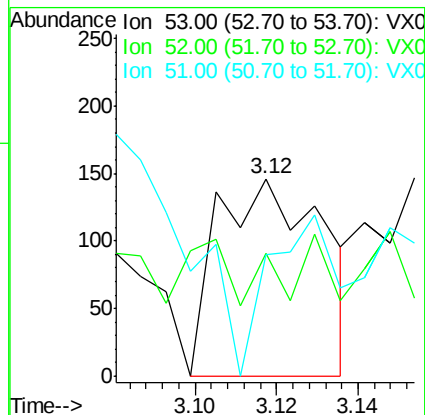
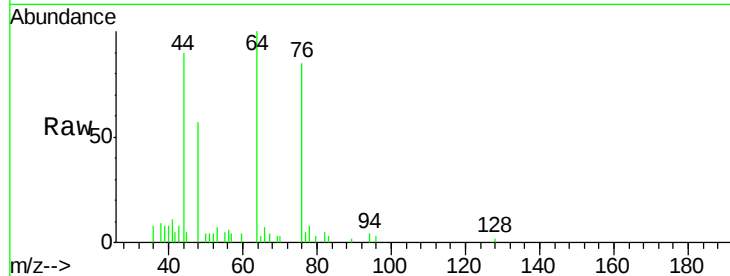
Tot Ion: 53 Resp: 264

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 50.8 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002351.D

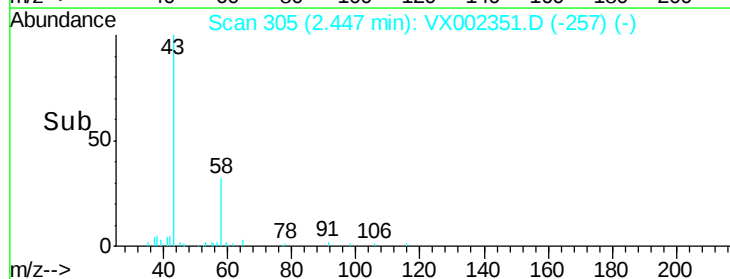
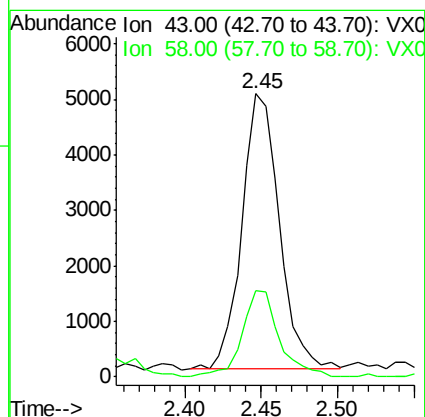
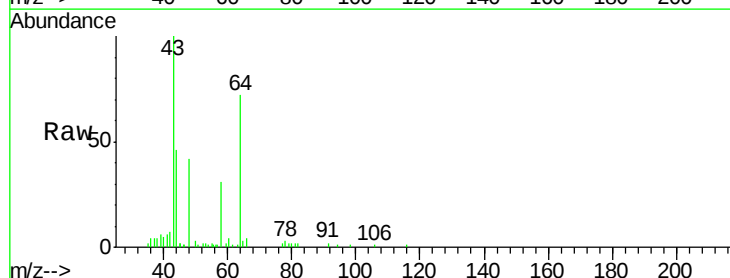
Acq: 06 Jun 2018 14:36

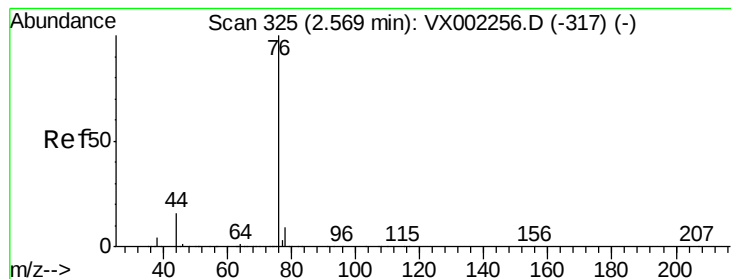
Tgt Ion: 43 Resp: 8346

Ion Ratio Lower Upper

43 100

58 31.5 22.1 33.1





#17

Carbon Disulfide

Concen: 1.08 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

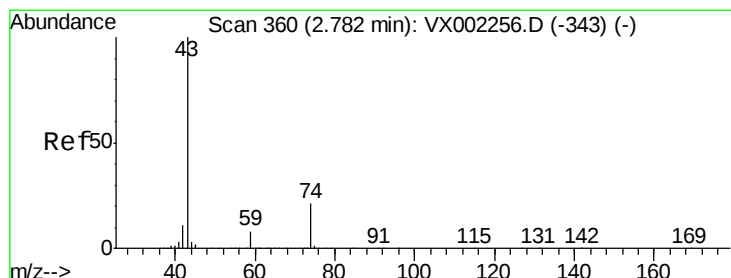
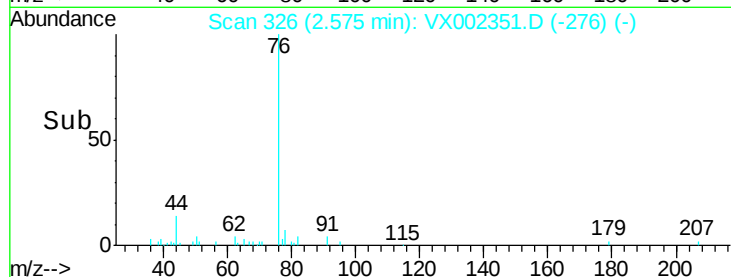
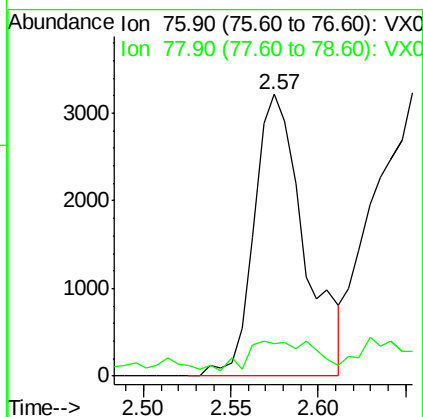
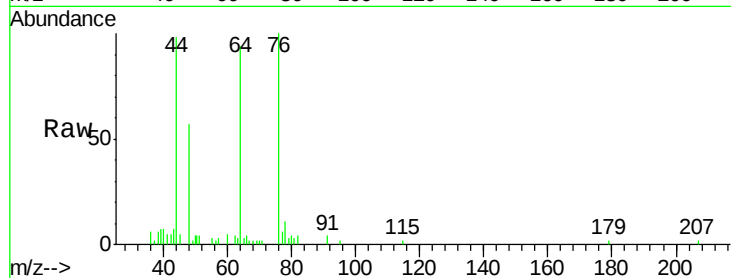
B-1(GW)

Tot Ion: 76 Resp: 6397

Ion Ratio Lower Upper

76 100

78 7.7 6.9 10.3



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002351.D

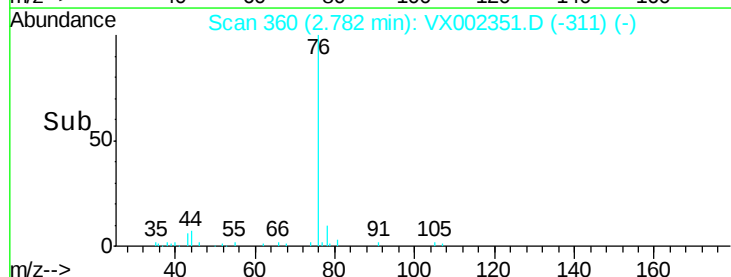
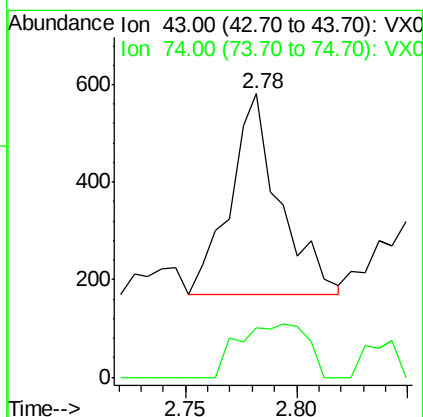
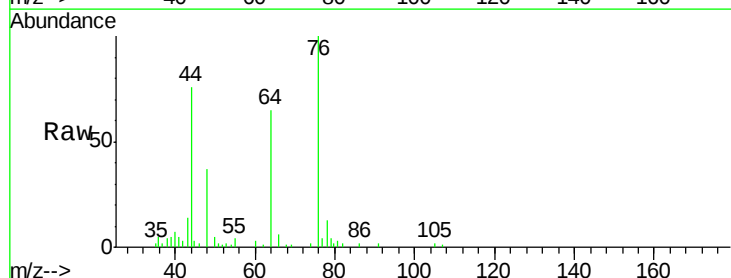
Acq: 06 Jun 2018 14:36

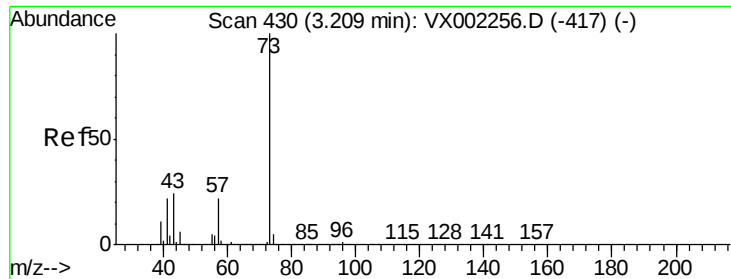
Tgt Ion: 43 Resp: 634

Ion Ratio Lower Upper

43 100

74 36.9 16.7 25.1#

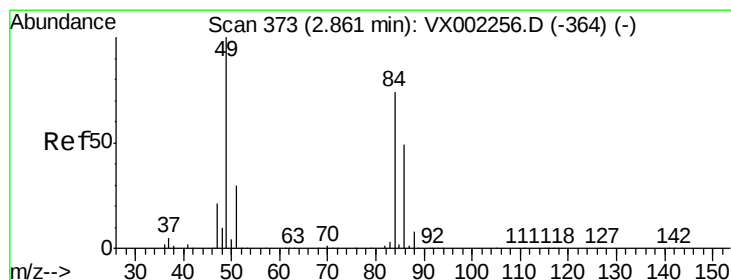
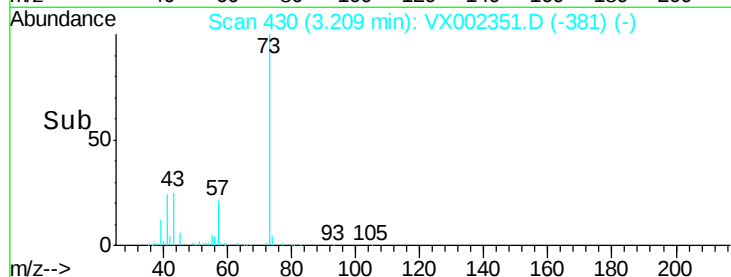
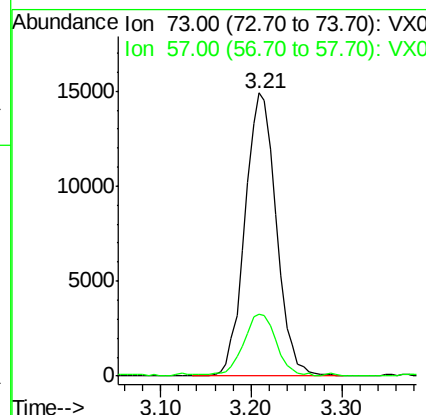
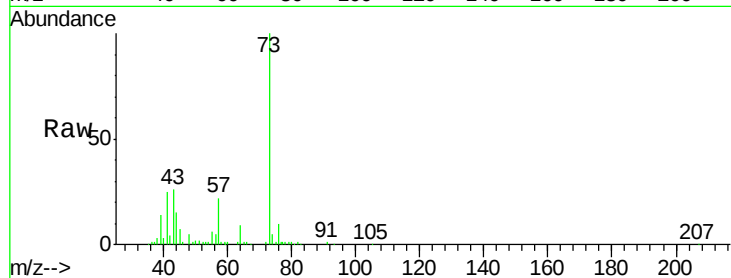




#19
Methyl tert-butyl Ether
Concen: 2.28 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

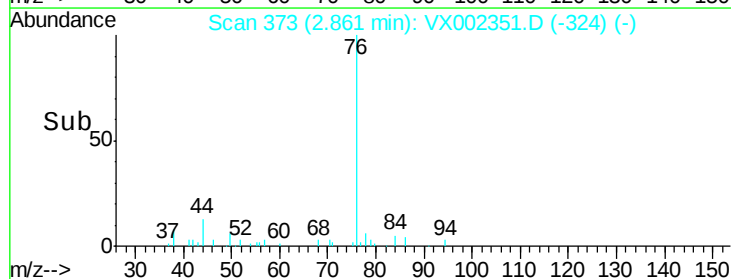
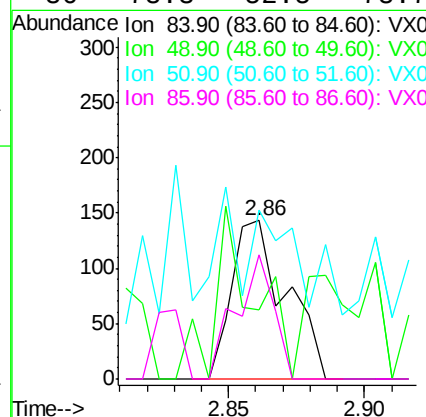
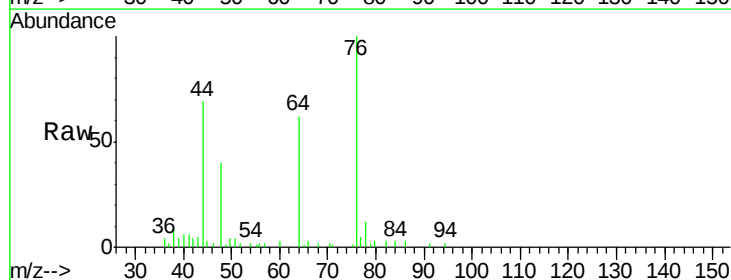
Instrument :
MSVOA_X
ClientSampleId :
B-1(GW)

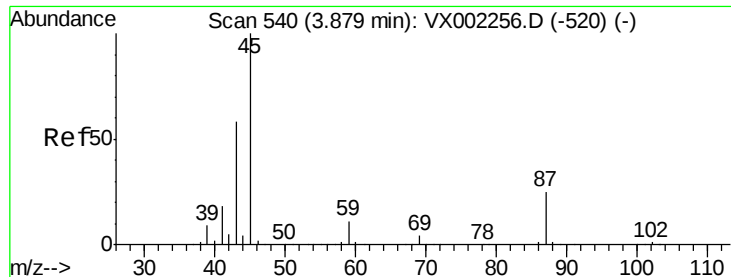
Tot Ion: 73 Resp: 35652
Ion Ratio Lower Upper
73 100
57 21.9 17.7 26.5



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

Tgt Ion: 84 Resp: 198
Ion Ratio Lower Upper
84 100
49 5.6 107.8 161.6#
51 66.4 32.8 49.2#
86 78.3 52.5 78.7

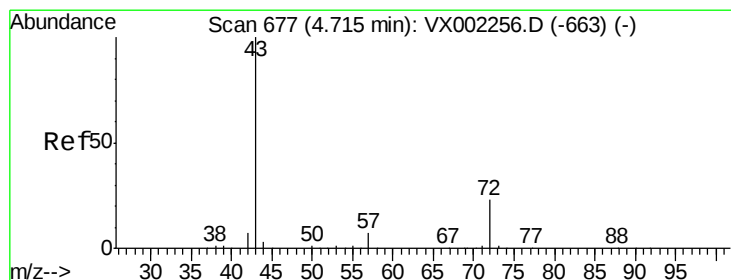
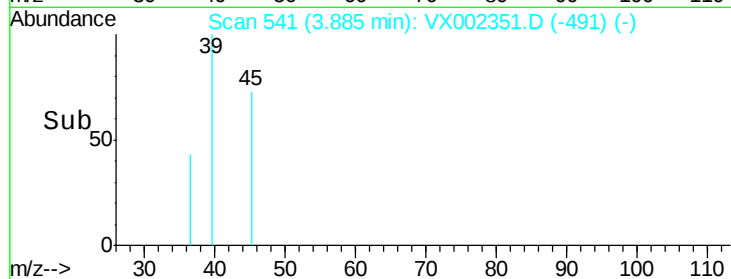
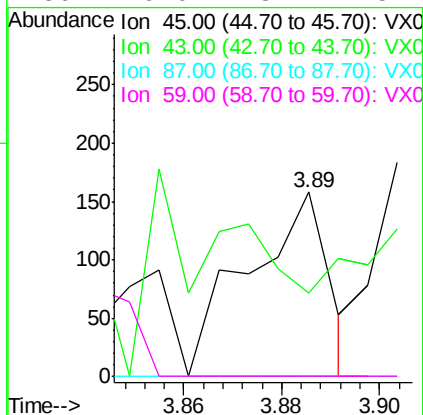
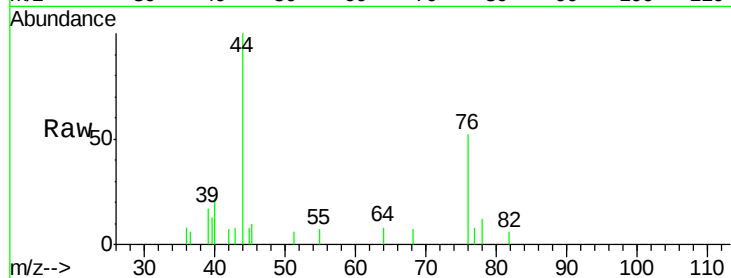




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

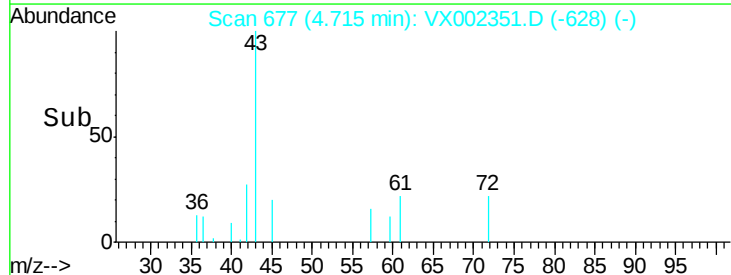
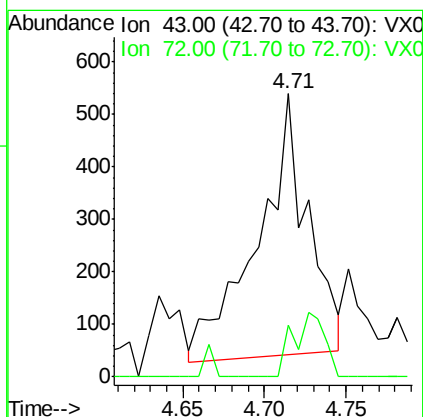
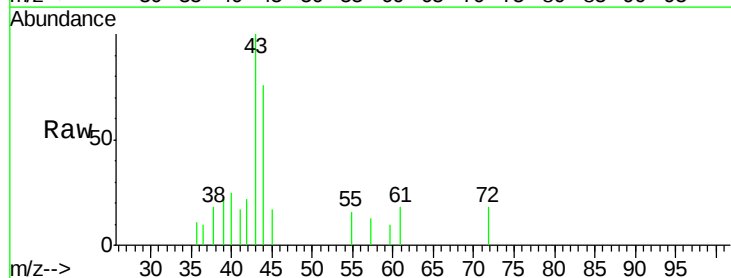
Instrument :
MSVOA_X
ClientSampled :
B-1(GW)

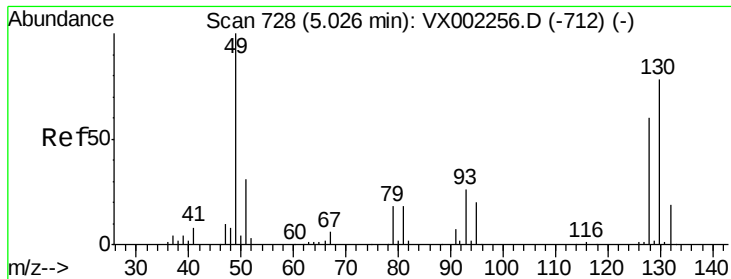
Tot Ion:	45	Resp:	180
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 0.51 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

Tgt Ion:	43	Resp:	1056
Ion	Ratio	Lower	Upper
43	100		
72	20.3	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 723

Delta R.T. -0.03 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampled :

B-1(GW)

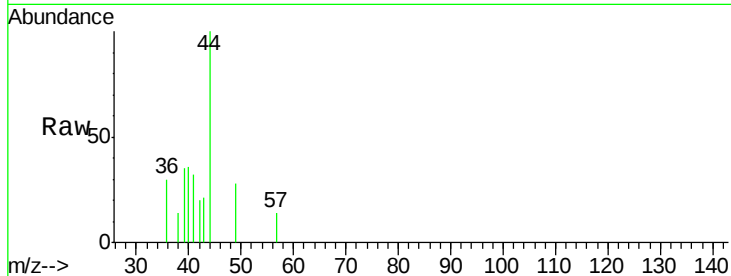
Tot Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

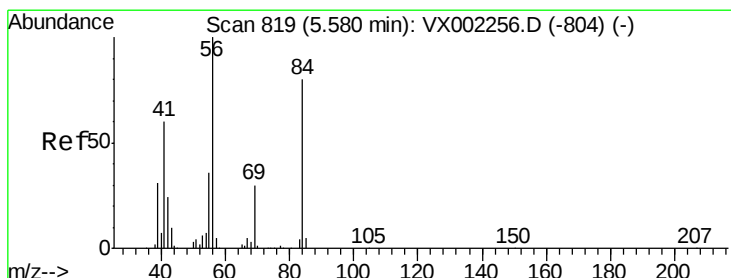
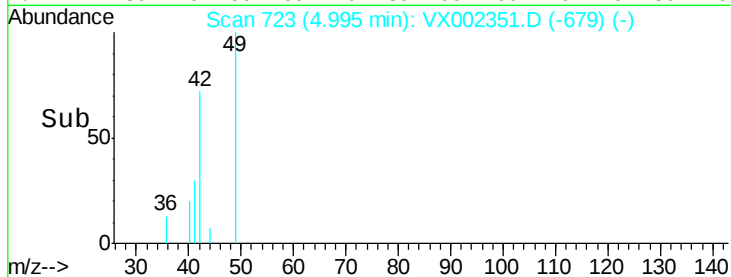
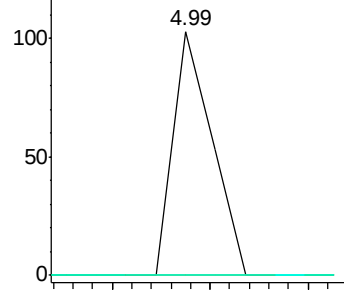
130 0.0 61.2 91.8#



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



#31

Cyclohexane

Concen: 1.32 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

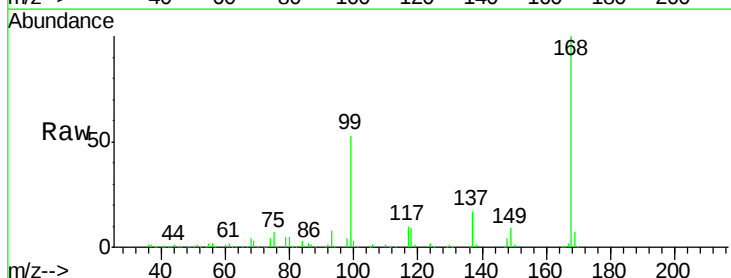
Tgt Ion: 56 Resp: 5025

Ion Ratio Lower Upper

56 100

69 148.1 23.7 35.5#

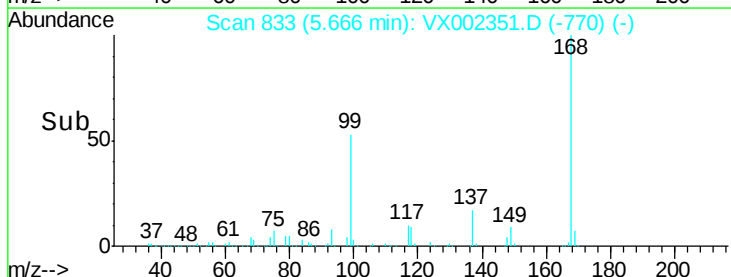
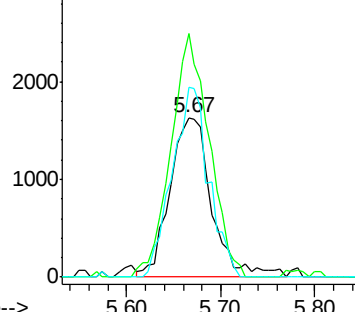
84 119.1 64.1 96.1#

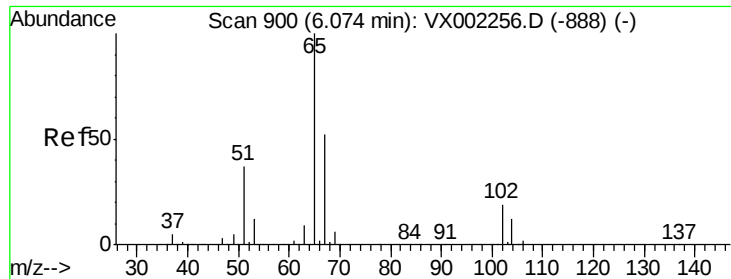


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

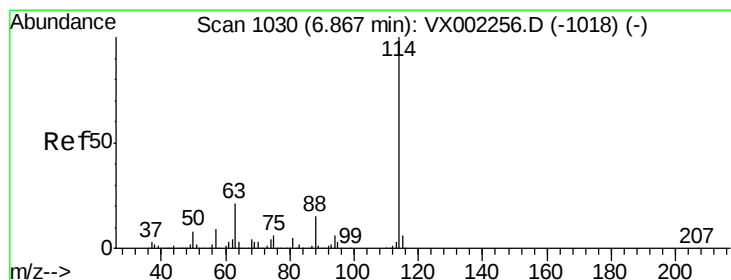
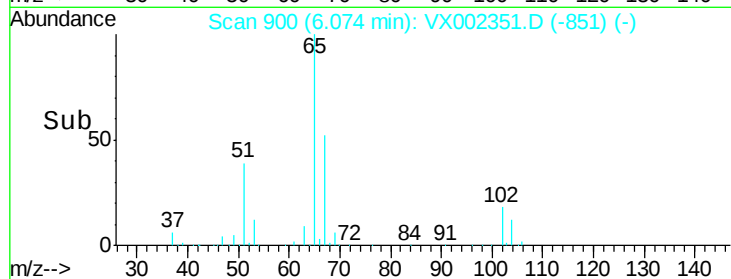
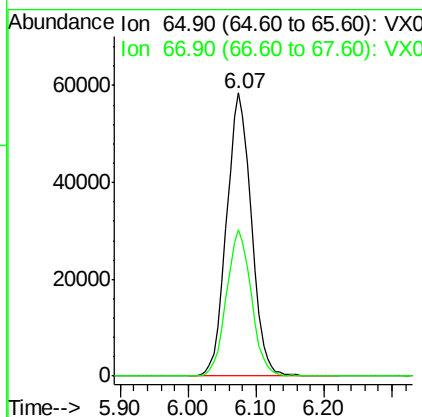
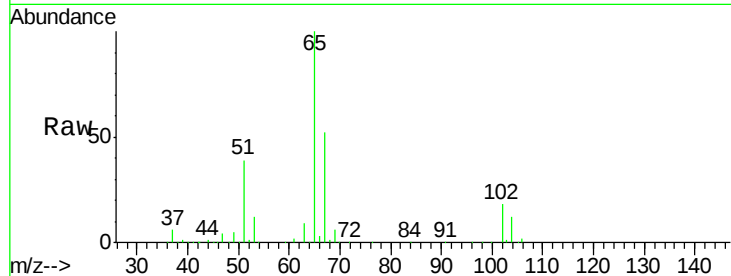




#33
 1,2-Dichloroethane-d4
 Concen: 49.12 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002351.D
 Acq: 06 Jun 2018 14:36

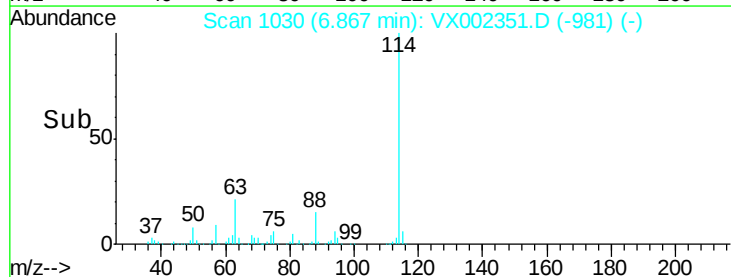
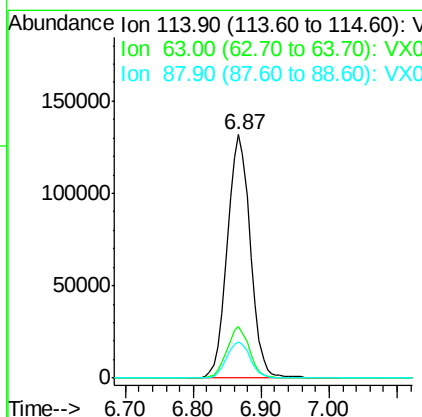
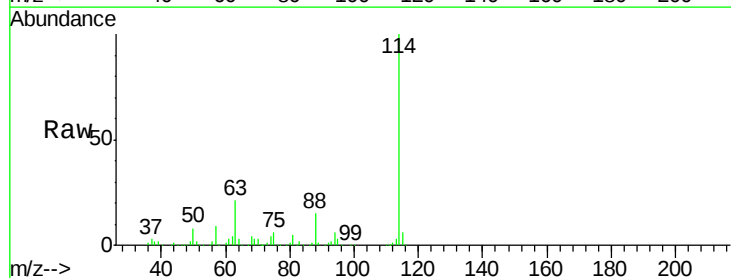
Instrument :
 MSVOA_X
 ClientSampleId :
 B-1(GW)

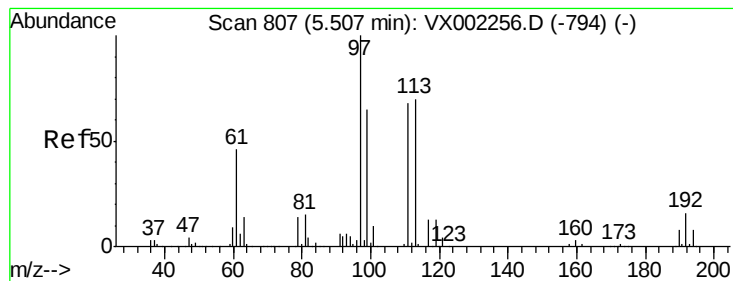
Tot Ion: 65 Resp: 148135
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002351.D
 Acq: 06 Jun 2018 14:36

Tgt Ion: 114 Resp: 309581
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.67 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampled :

B-1(GW)

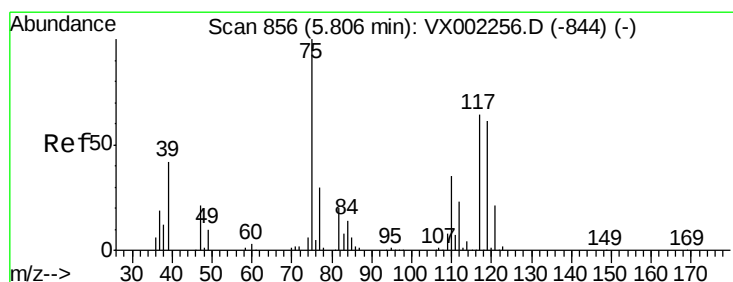
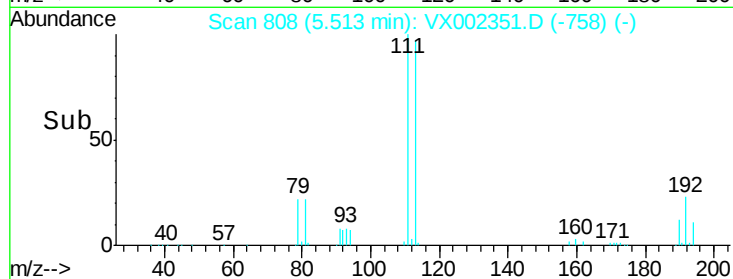
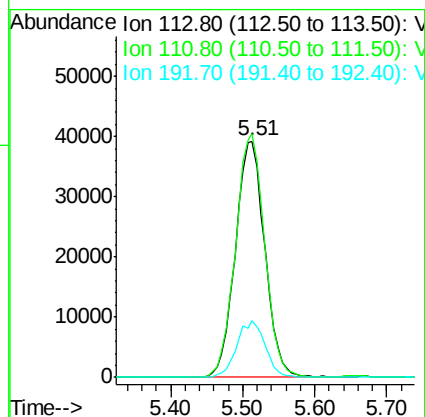
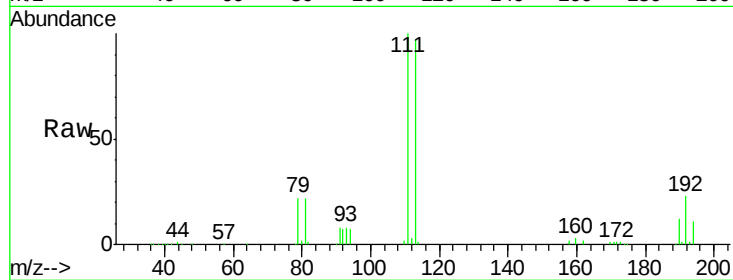
Tot Ion:113 Resp: 111183

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 23.0 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.62 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

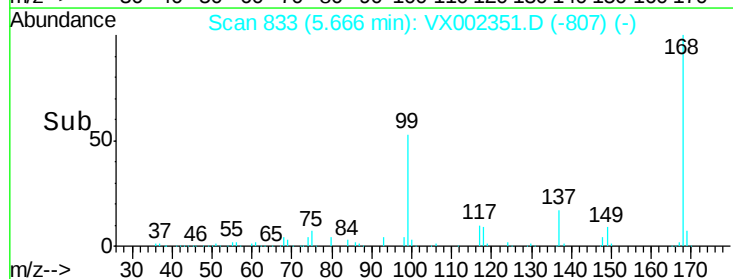
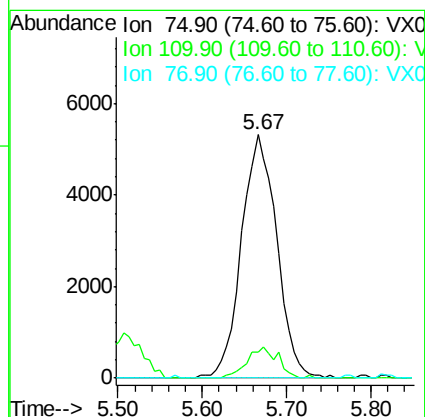
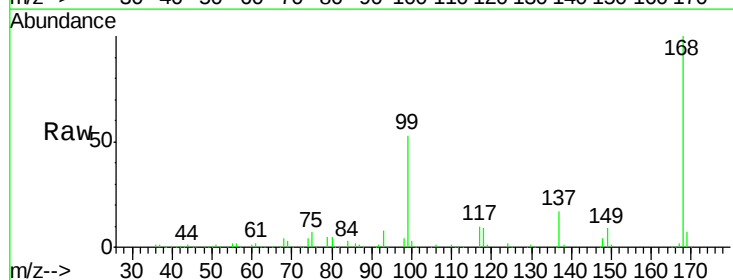
Tgt Ion: 75 Resp: 15041

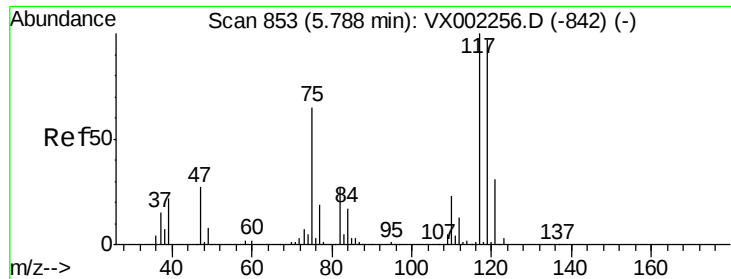
Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.67 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

B-1(GW)

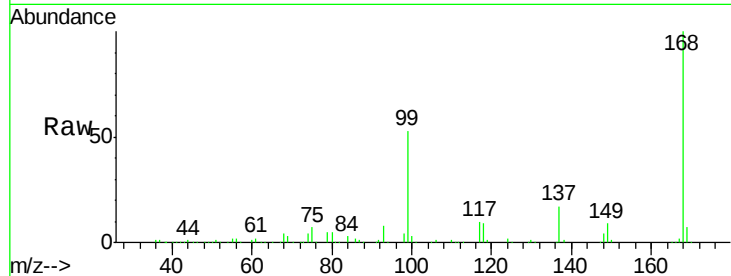
Tot Ion:117 Resp: 19298

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

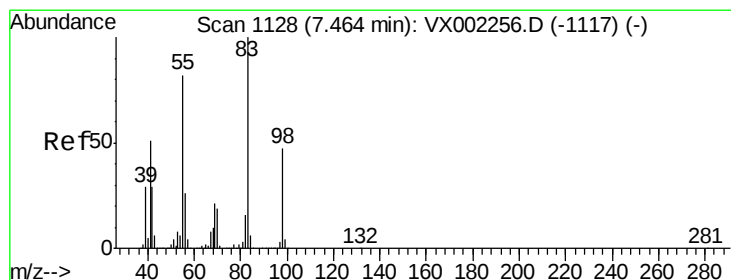
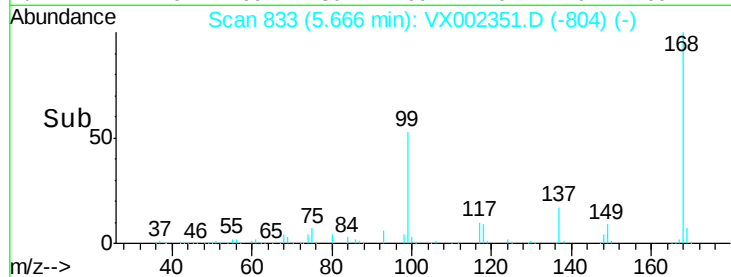
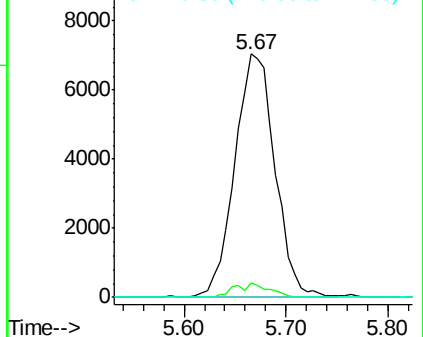
121 0.0 24.4 36.6#



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: 0.27 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

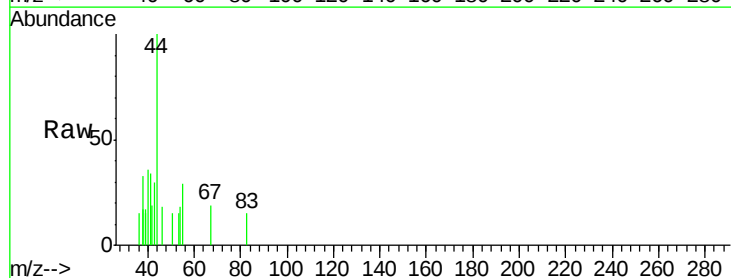
Tgt Ion: 83 Resp: 40

Ion Ratio Lower Upper

83 100

55 185.7 65.4 98.0#

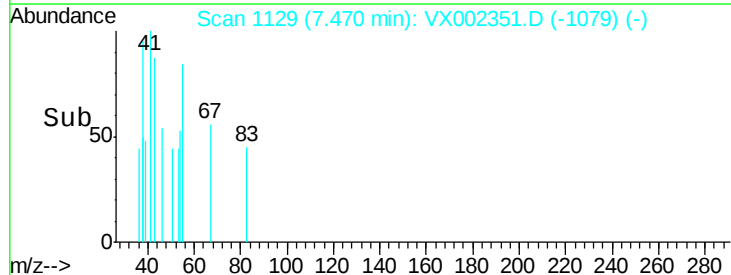
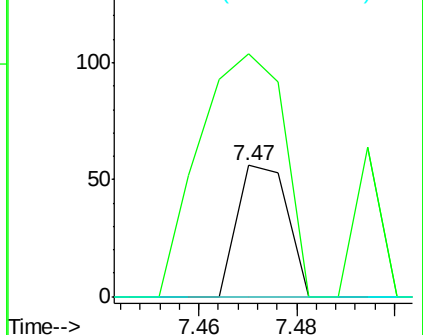
98 0.0 37.4 56.0#

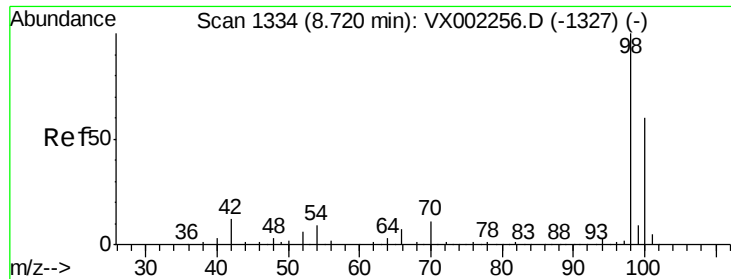


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 46.98 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

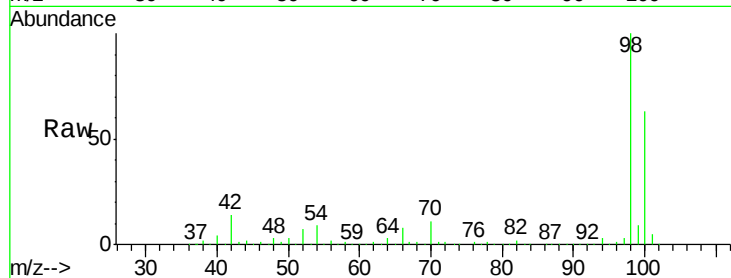
B-1(GW)

Tot Ion: 98 Resp: 438362

Ion Ratio Lower Upper

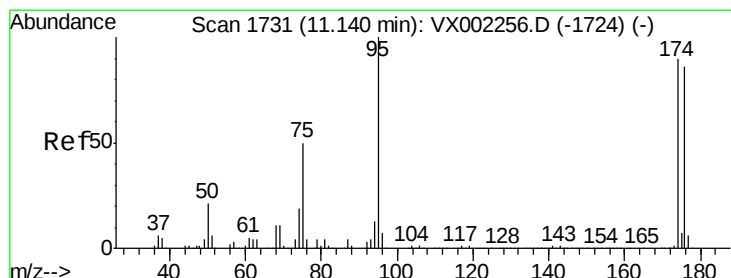
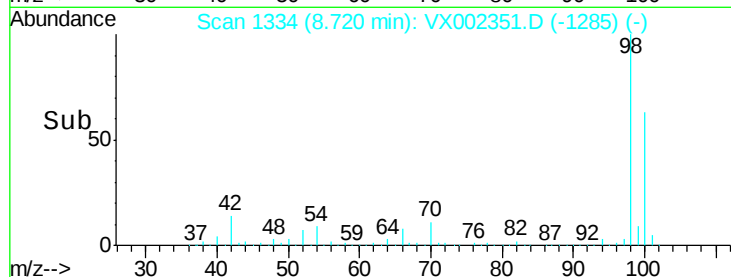
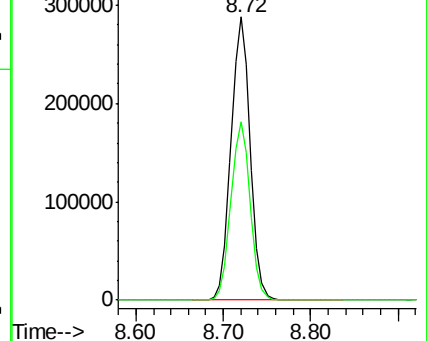
98 100

100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 38.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

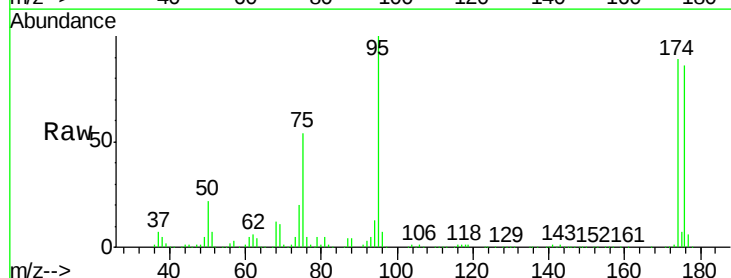
Tgt Ion: 95 Resp: 139335

Ion Ratio Lower Upper

95 100

174 94.7 0.0 187.4

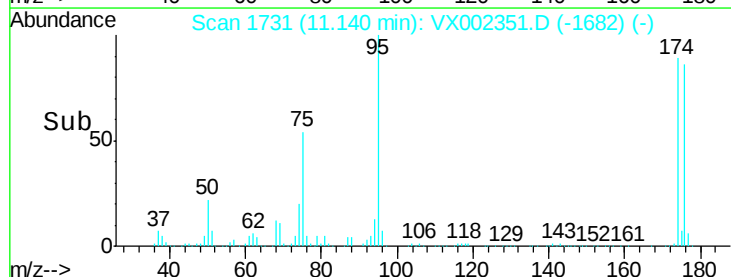
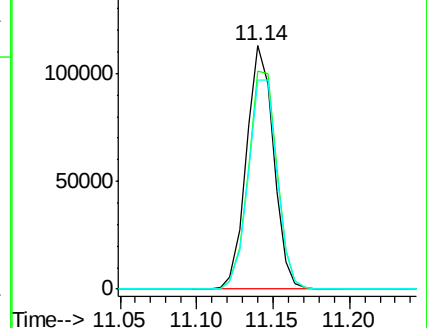
176 91.4 0.0 181.0

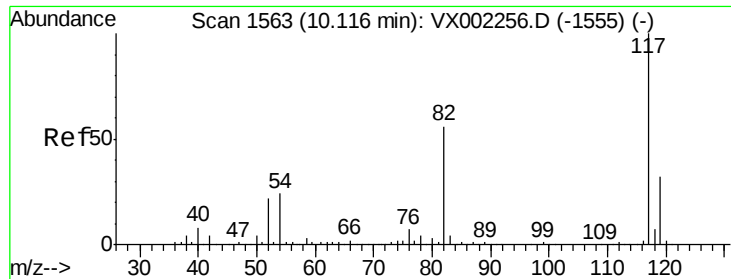


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

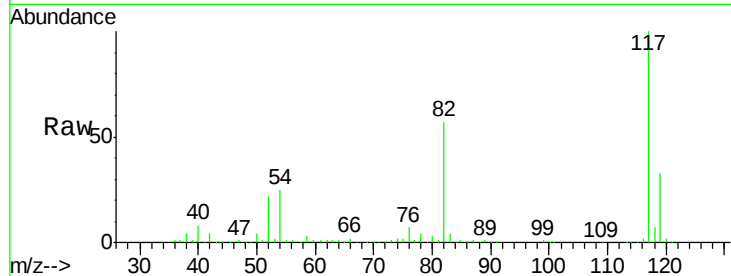




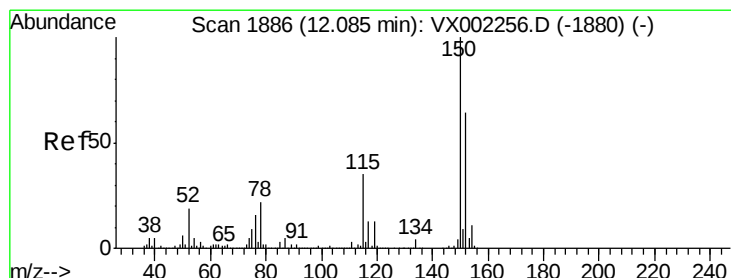
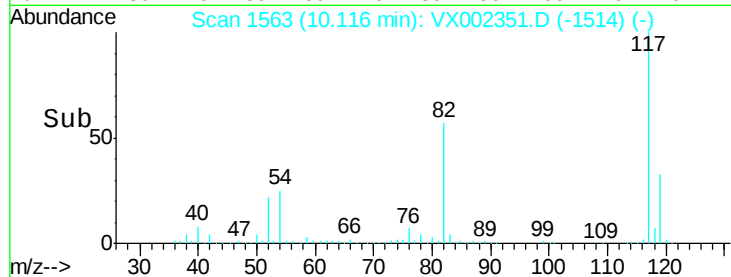
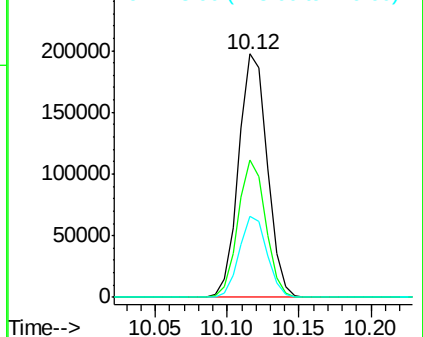
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

Instrument :
MSVOA_X
ClientSampled :
B-1(GW)

Tot Ion:117 Resp: 272721
Ion Ratio Lower Upper
117 100
82 56.5 45.0 67.4
119 33.1 25.8 38.6

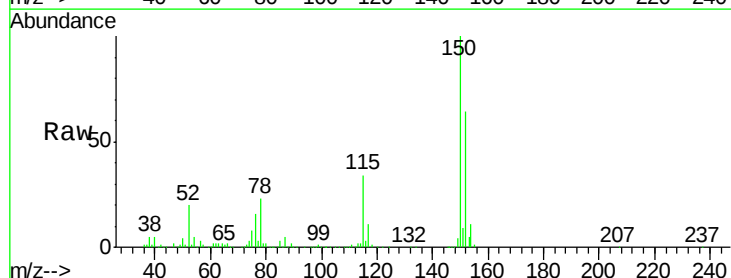


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

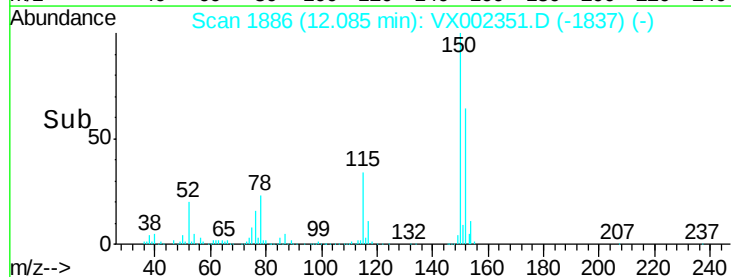
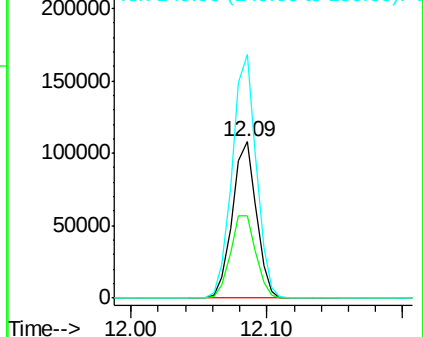


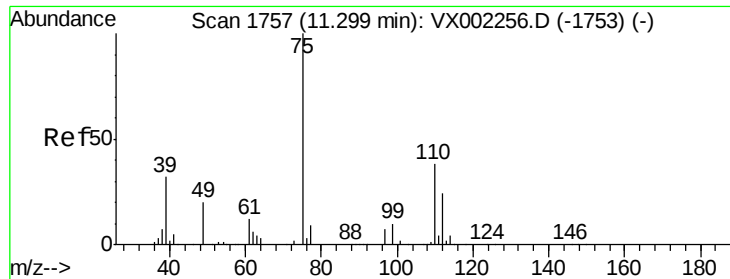
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002351.D
Acq: 06 Jun 2018 14:36

Tgt Ion:152 Resp: 132573
Ion Ratio Lower Upper
152 100
115 55.7 40.1 120.2
150 156.3 0.0 347.2



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

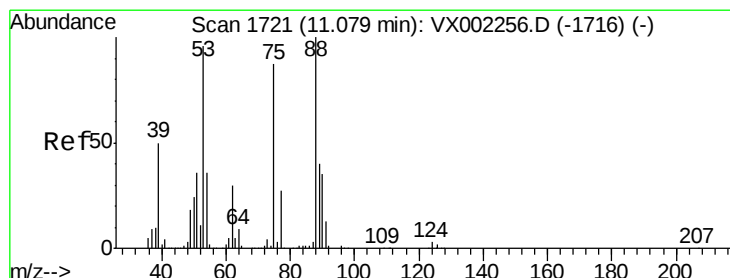
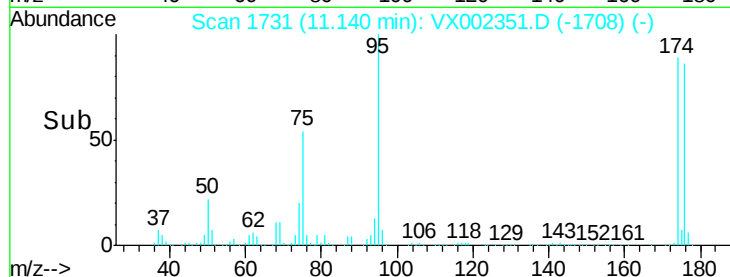
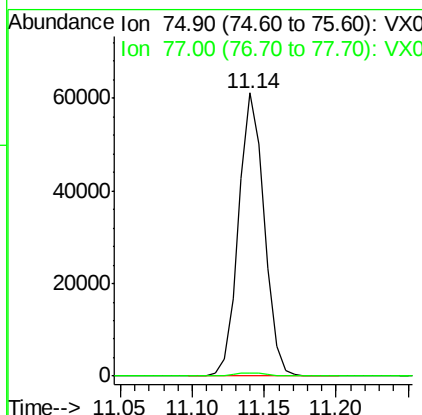
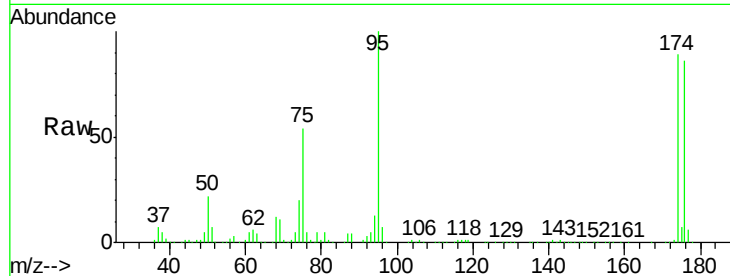




#76
 1,2,3-Trichloropropane
 Concen: 26.09 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002351.D
 Acq: 06 Jun 2018 14:36

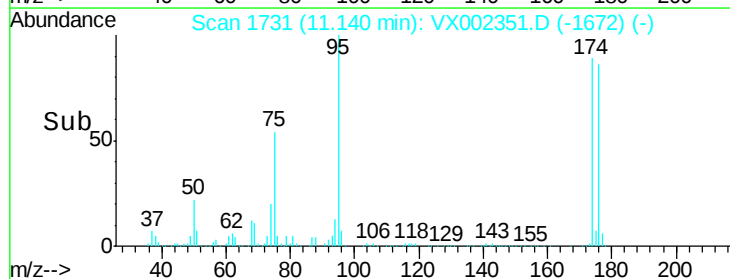
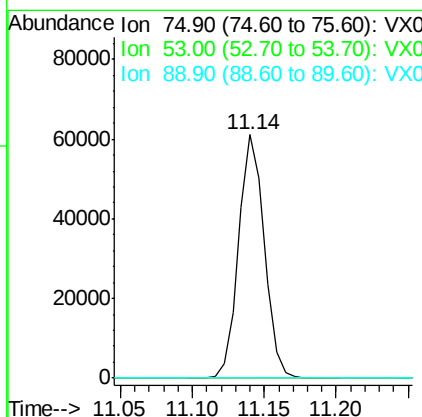
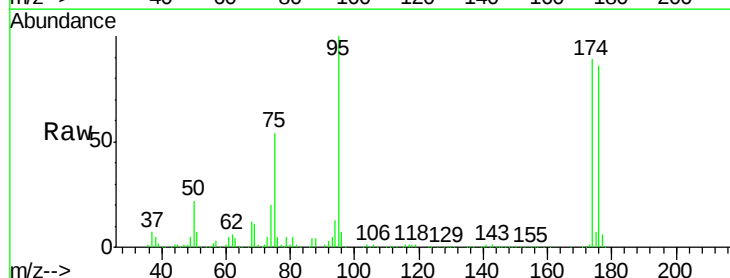
Instrument :
 MSVOA_X
 ClientSampleId :
 B-1(GW)

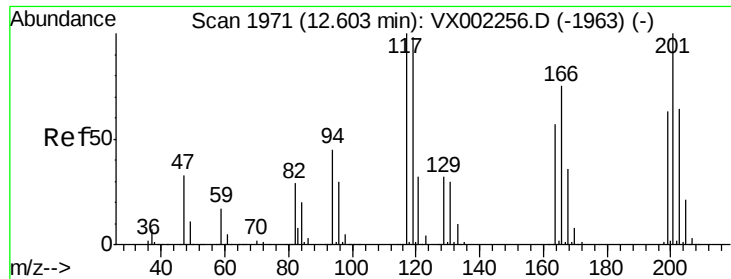
Tot Ion: 75 Resp: 75896
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.45 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002351.D
 Acq: 06 Jun 2018 14:36

Tgt Ion: 75 Resp: 75896
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 0.23 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.15 min

Lab File: VX002351.D

Acq: 06 Jun 2018 14:36

Instrument :

MSVOA_X

ClientSampleId :

B-1(GW)

Tot Ion:117 Resp: 301

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

