

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122118\
 Data File : VX006756.D
 Acq On : 22 Dec 2018 06:39
 Operator : JC/MD
 Sample : J6503-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

Quant Time: Dec 22 09:35:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	635554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	995954	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	888640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	409195	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	347674	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
35) Dibromofluoromethane	5.51	113	300117	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	8.71	98	1159427	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.13	95	406546	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	

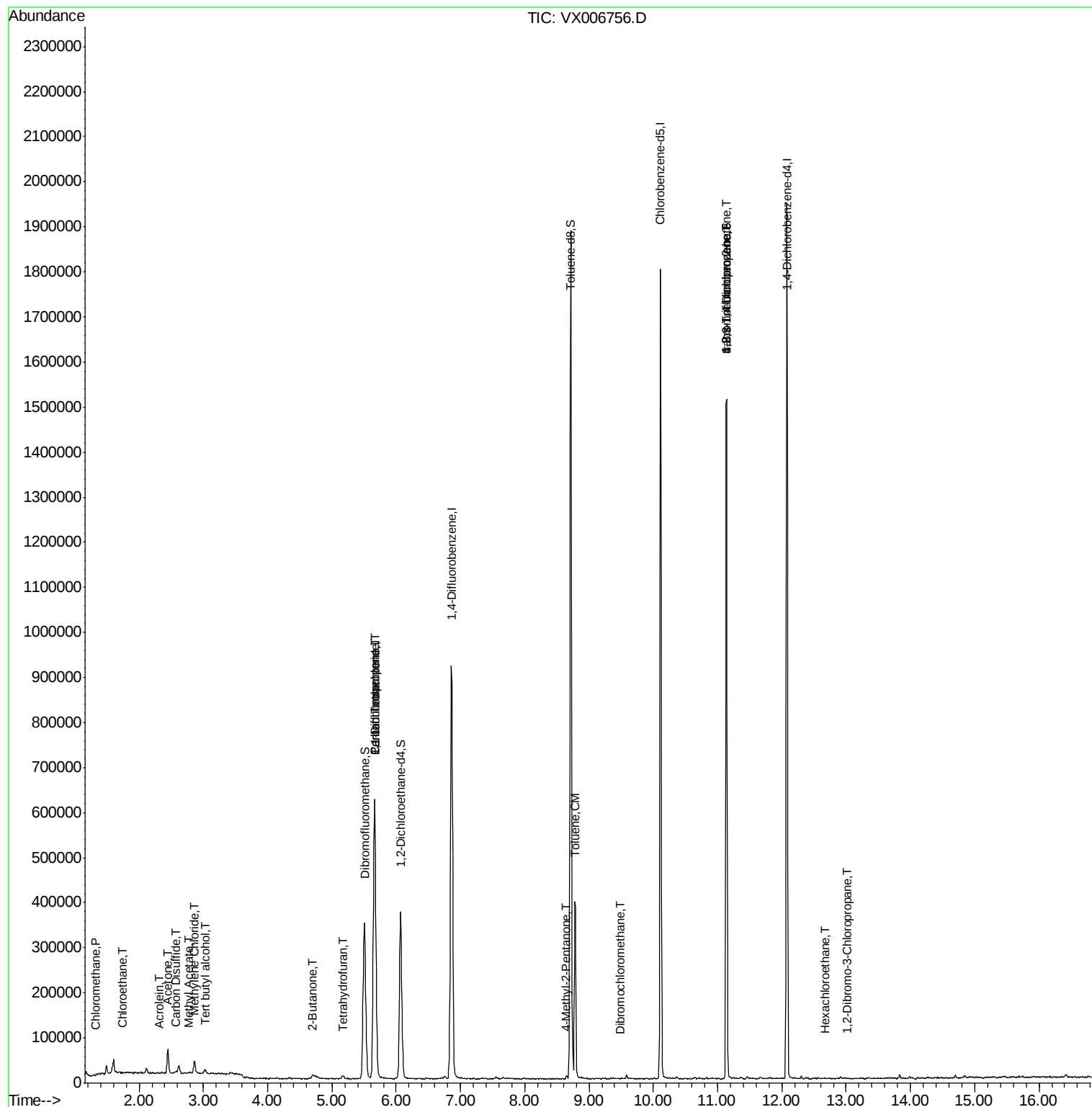
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1990	0.318	ug/l #	86
5) Bromomethane	1.65	94	382	Below Cal		99
6) Chloroethane	1.73	64	1064	0.235	ug/l #	81
11) Tert butyl alcohol	3.03	59	7459	4.879	ug/l #	93
13) Acrolein	2.31	56	1046	1.014	ug/l #	34
16) Acetone	2.45	43	55708	17.702	ug/l	95
17) Carbon Disulfide	2.57	76	5317	0.354	ug/l	97
18) Methyl Acetate	2.78	43	4883	0.528	ug/l	96
20) Methylene Chloride	2.86	84	13931	2.141	ug/l	97
25) 2-Butanone	4.70	43	16212	3.662	ug/l #	87
28) Bromochloromethane	5.03	49	298	Below Cal	#	2
29) Tetrahydrofuran	5.16	42	4688	1.608	ug/l #	86
36) 1,1-Dichloropropene	5.67	75	42094	5.103	ug/l #	49
38) Carbon Tetrachloride	5.66	117	57852	7.217	ug/l #	15
49) 1,4-Dioxane	7.76	88	236	Below Cal	#	64
51) 4-Methyl-2-Pentanone	8.65	43	3637	0.438	ug/l	94
52) Toluene	8.78	92	151642	9.361	ug/l	98
60) Dibromochloromethane	9.49	129	50	2.331	ug/l	56
76) 1,2,3-Trichloropropane	11.13	75	190174	25.008	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	190174	73.896	ug/l #	10
90) Hexachloroethane	12.67	117	101	3.317	ug/l	66
92) 1,2-Dibromo-3-Chloropropan	13.01	75	354	0.205	ug/l #	1

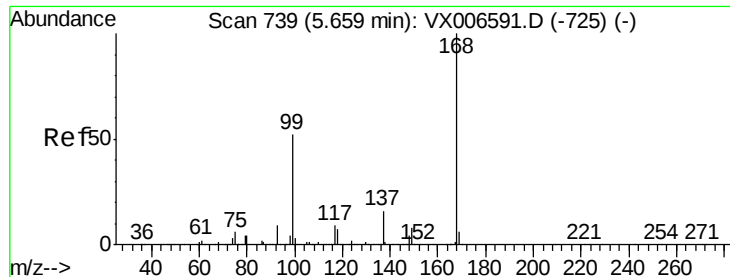
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 22 09:35:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

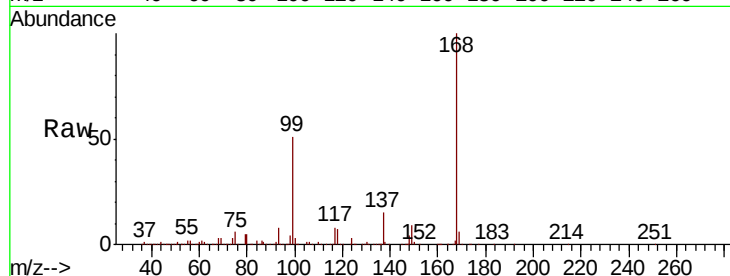
TP-GROUNDWATER-1-1

Tgt Ion:168 Resp: 635554

Ion Ratio Lower Upper

168 100

99 50.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

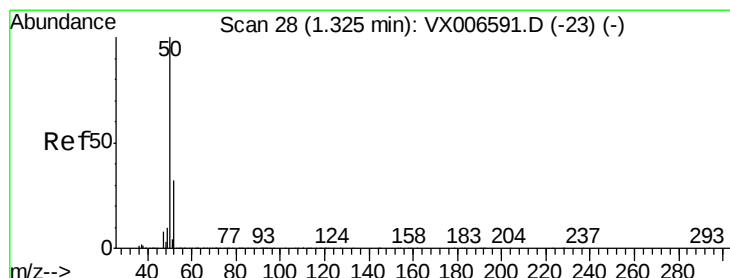
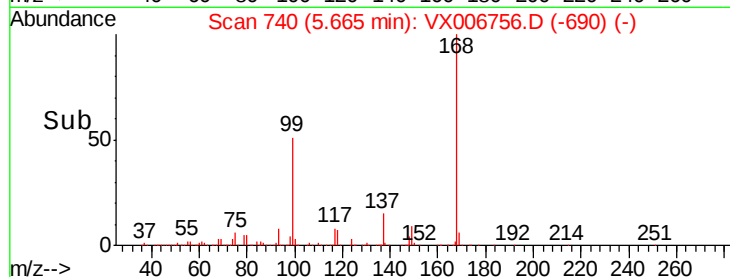
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.318 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006756.D

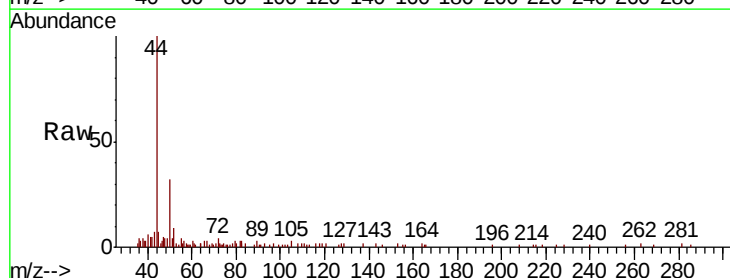
Acq: 22 Dec 2018 06:39

Tgt Ion: 50 Resp: 1990

Ion Ratio Lower Upper

50 100

52 24.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

2000

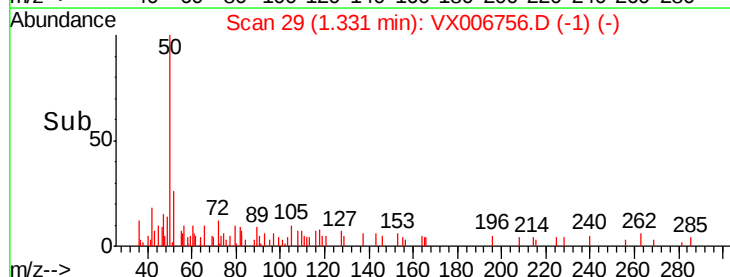
1500

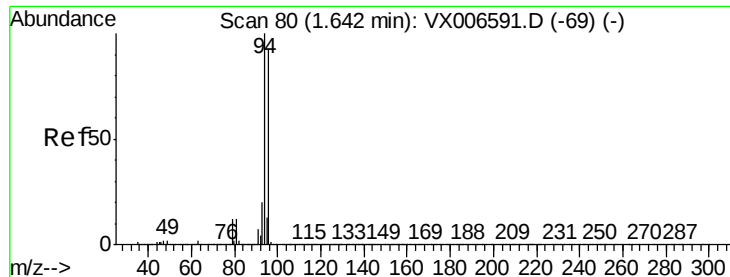
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

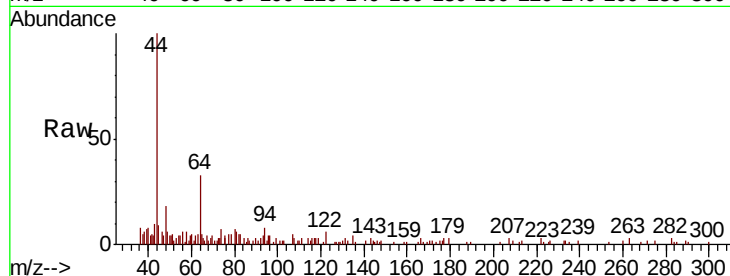
TP-GROUNDWATER-1-1

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

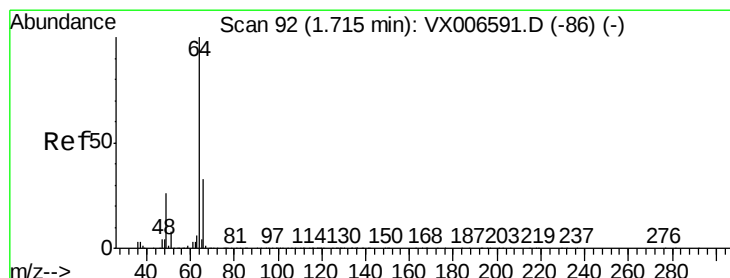
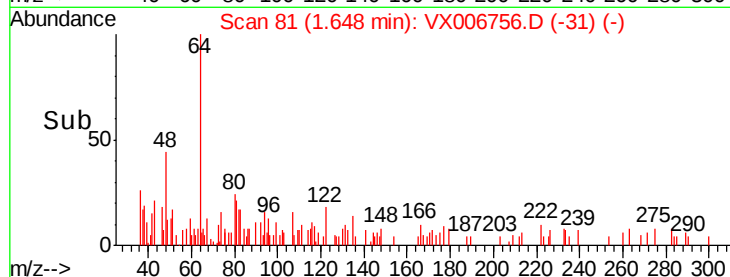
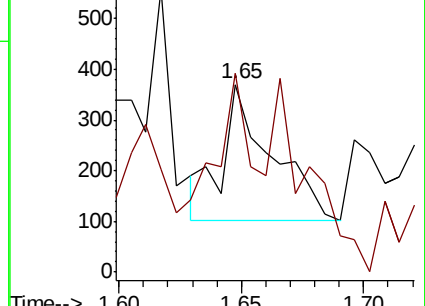
94 100

96 92.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.235 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX006756.D

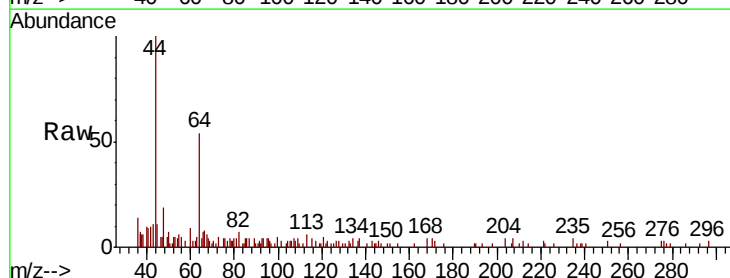
Acq: 22 Dec 2018 06:39

Tgt Ion: 64 Resp: 1064

Ion Ratio Lower Upper

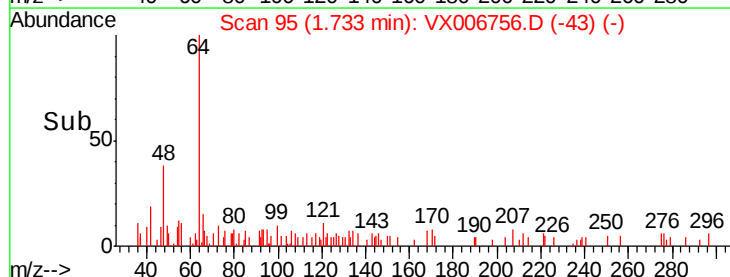
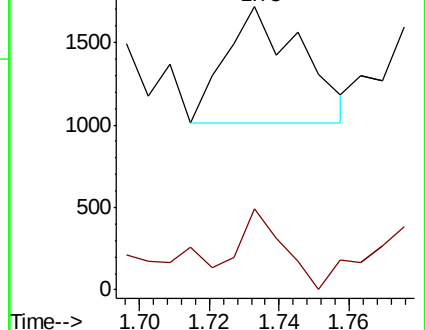
64 100

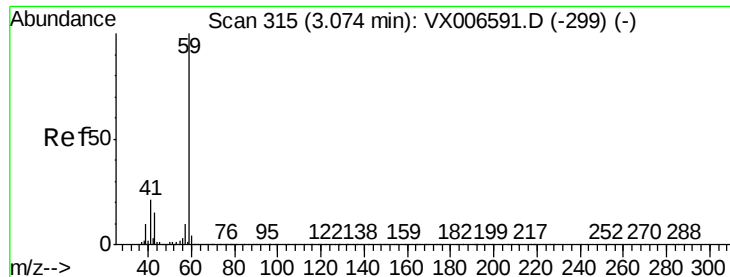
66 43.6 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

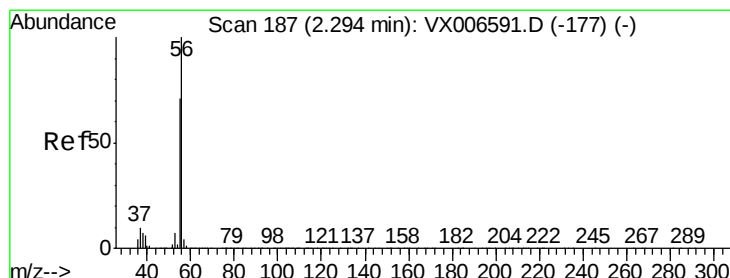
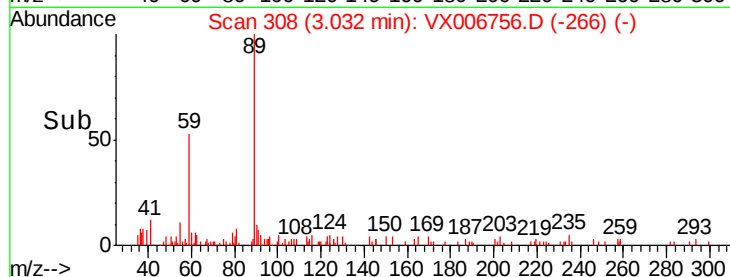
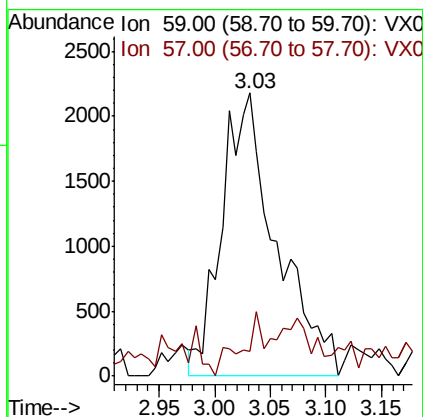
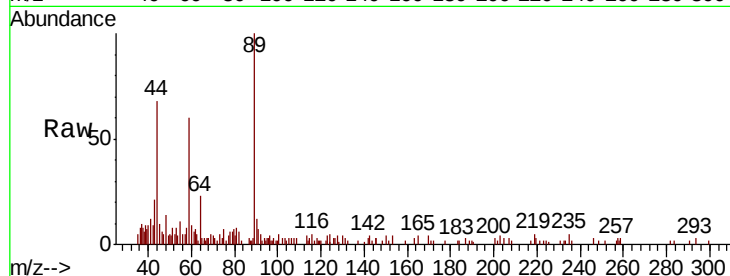




#11
Tert butyl alcohol
Concen: 4.879 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.04 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

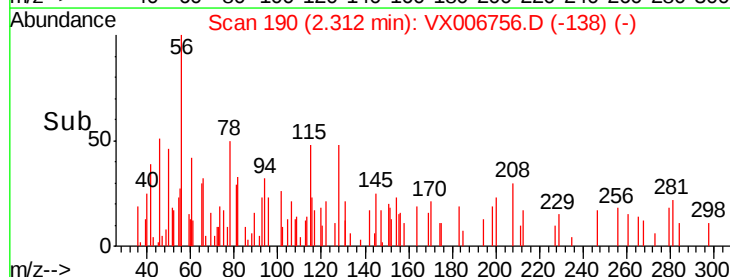
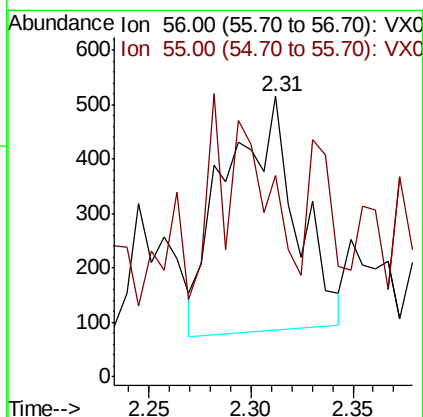
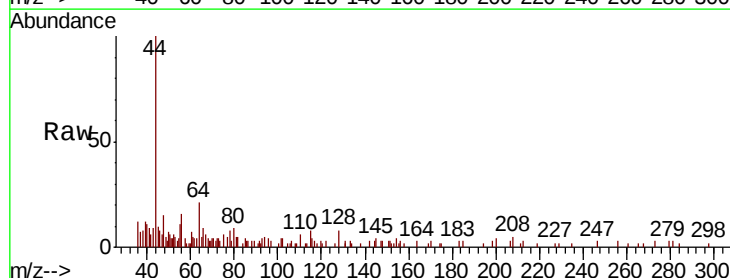
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

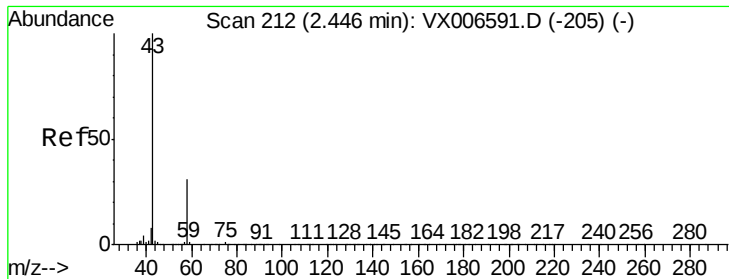
Tgt Ion: 59 Resp: 7459
Ion Ratio Lower Upper
59 100
57 8.0 8.5 12.7#



#13
Acrolein
Concen: 1.014 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion: 56 Resp: 1046
Ion Ratio Lower Upper
56 100
55 17.3 58.2 87.4#

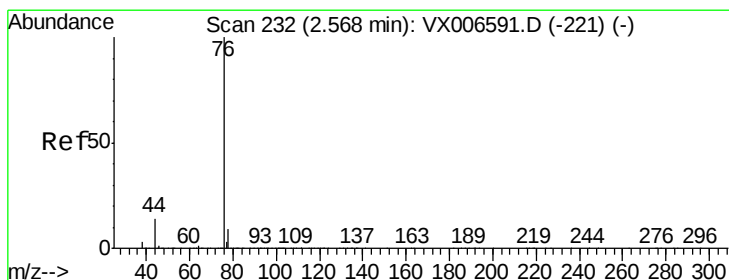
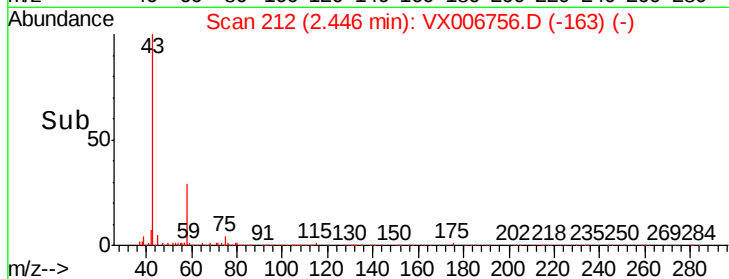
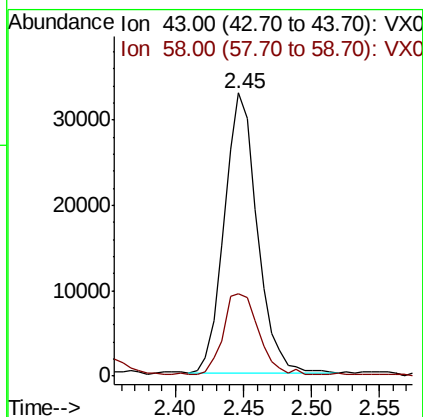
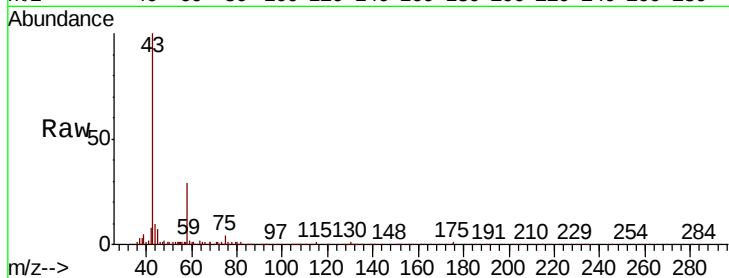




#16
Acetone
Concen: 17.702 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

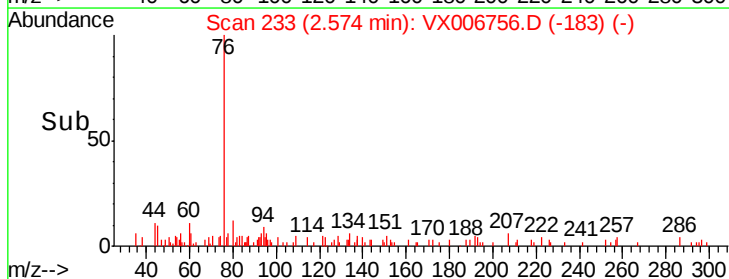
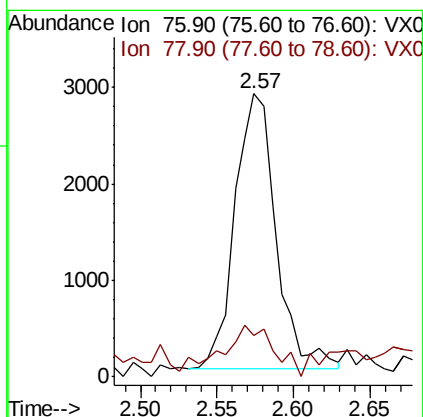
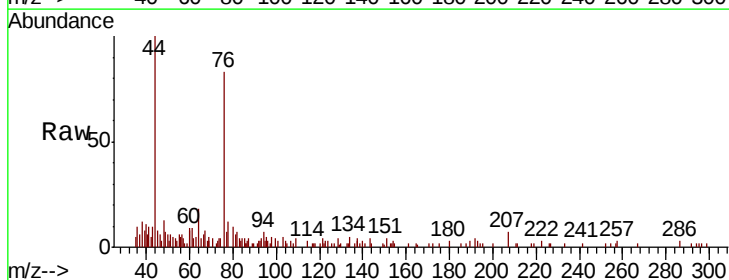
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

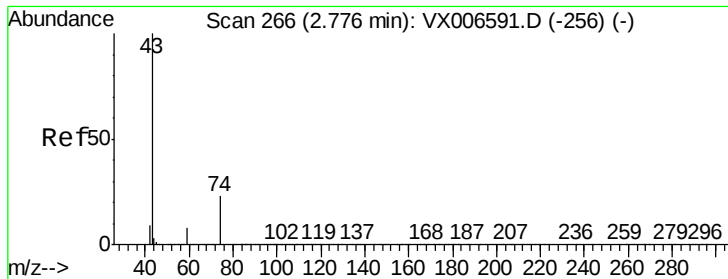
Tgt Ion: 43 Resp: 55708
Ion Ratio Lower Upper
43 100
58 28.8 25.0 37.6



#17
Carbon Disulfide
Concen: 0.354 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion: 76 Resp: 5317
Ion Ratio Lower Upper
76 100
78 7.7 7.0 10.6

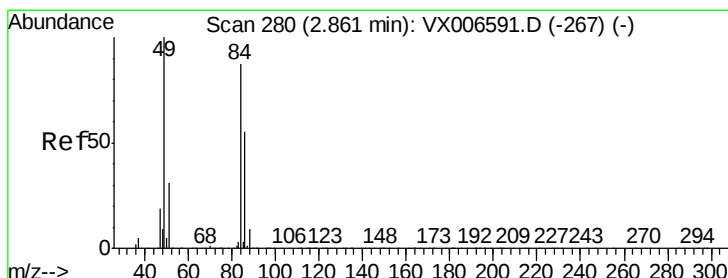
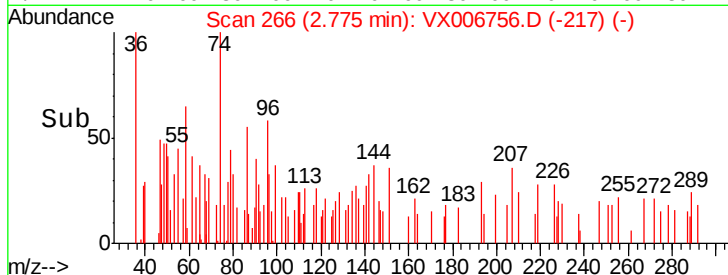
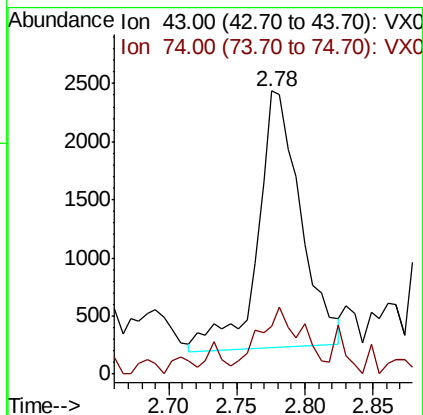
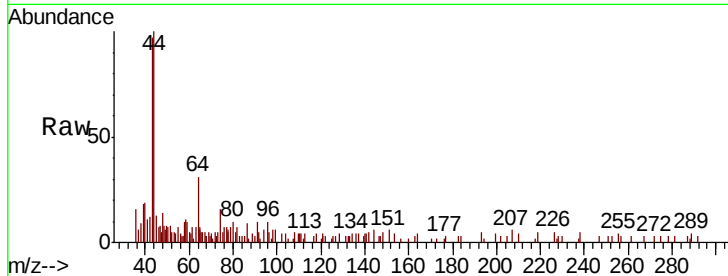




#18
Methyl Acetate
Concen: 0.528 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

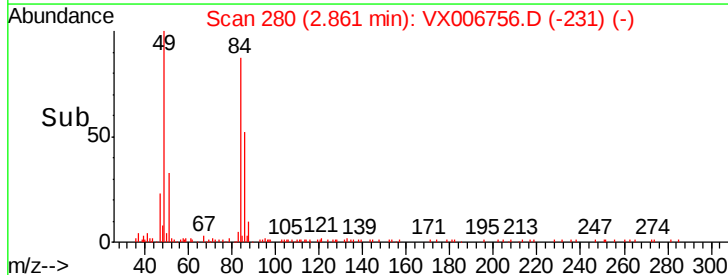
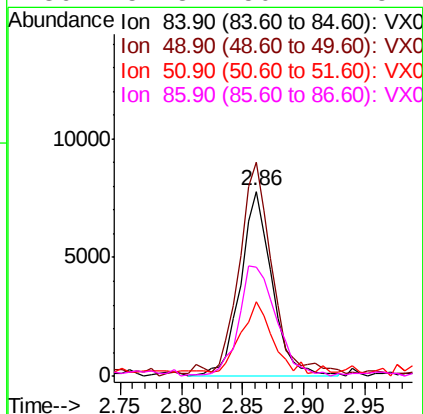
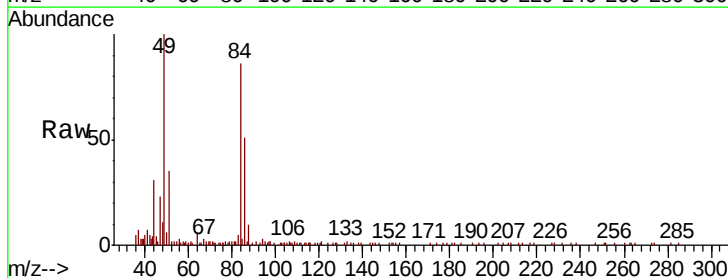
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

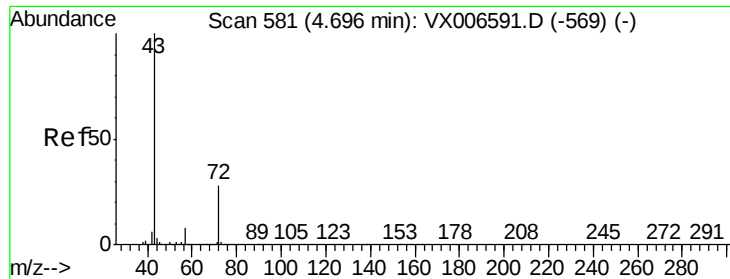
Tgt Ion: 43 Resp: 4883
Ion Ratio Lower Upper
43 100
74 21.5 18.6 28.0



#20
Methylene Chloride
Concen: 2.141 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion: 84 Resp: 13931
Ion Ratio Lower Upper
84 100
49 114.1 91.8 137.6
51 37.6 28.5 42.7
86 57.8 50.2 75.2





#25

2-Butanone

Concen: 3.662 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

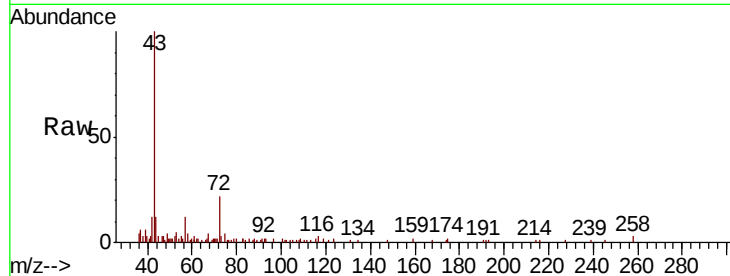
TP-GROUNDWATER-1-1

Tgt Ion: 43 Resp: 16212

Ion Ratio Lower Upper

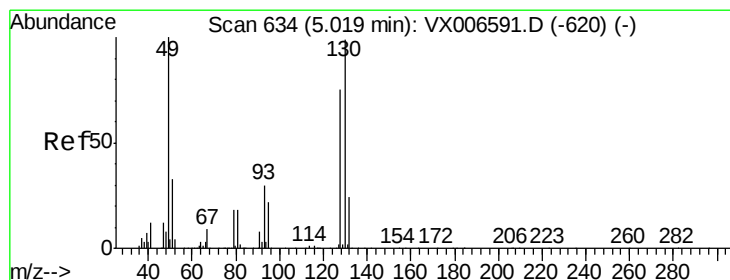
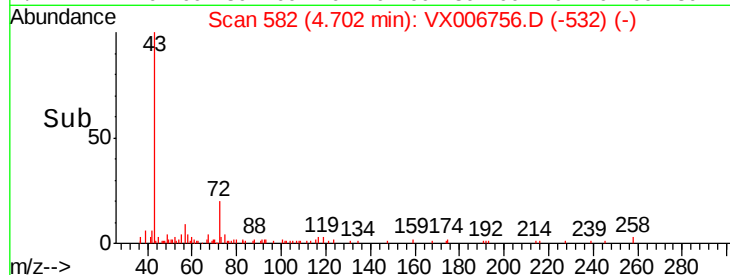
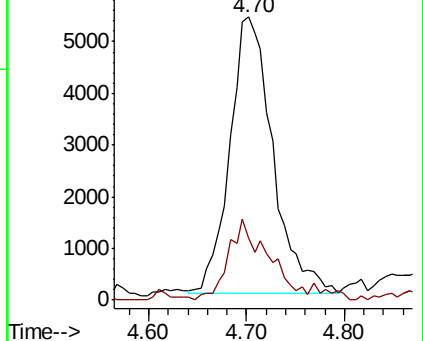
43 100

72 21.1 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

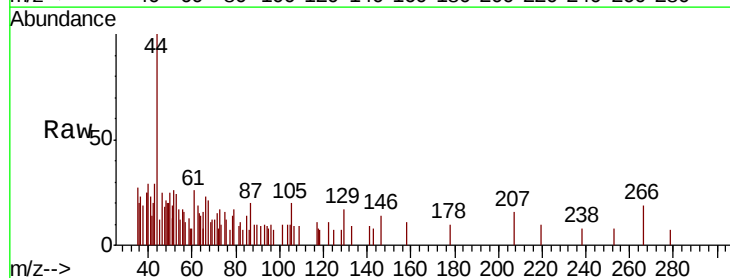
Tgt Ion: 49 Resp: 298

Ion Ratio Lower Upper

49 100

129 26.2 0.0 5.4#

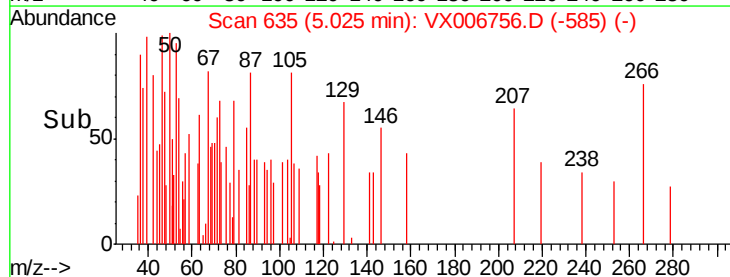
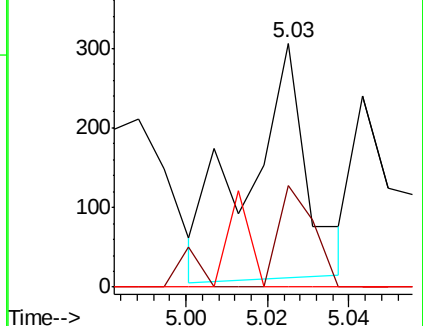
130 0.0 77.7 116.5#

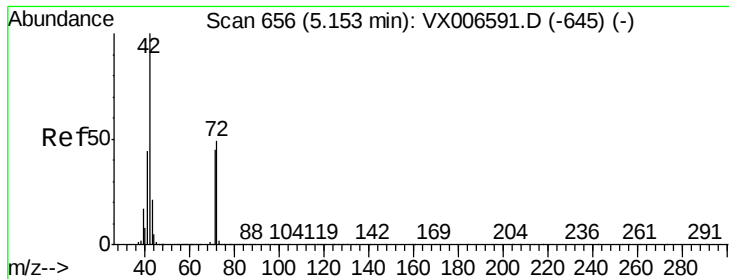


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

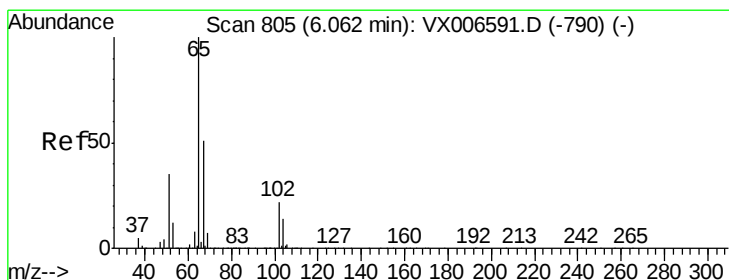
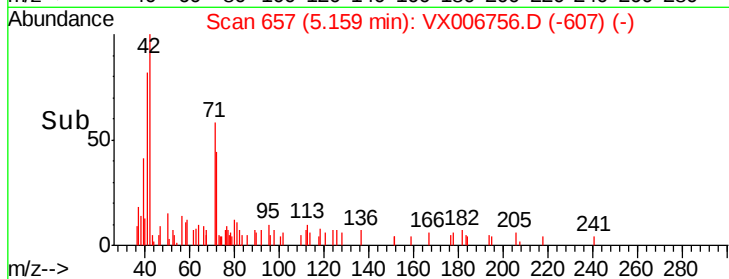
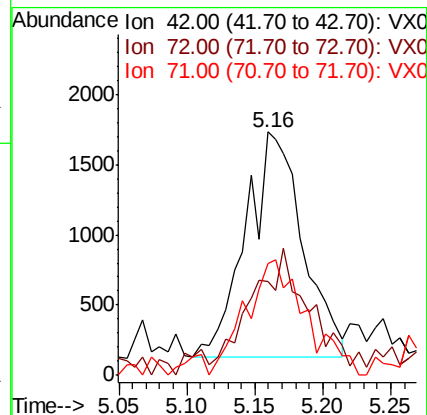
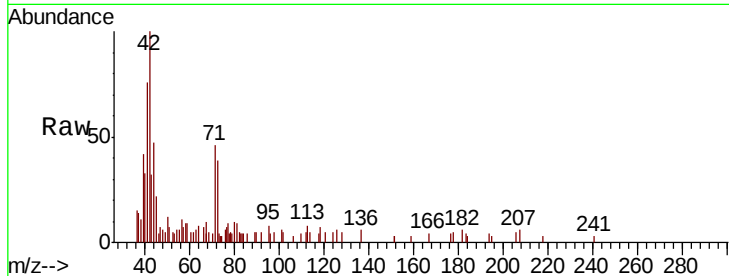




#29
Tetrahydrofuran
Concen: 1.608 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

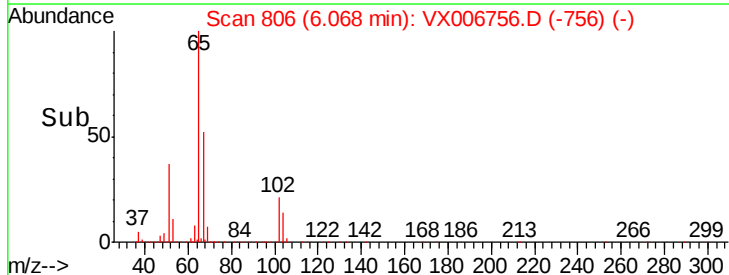
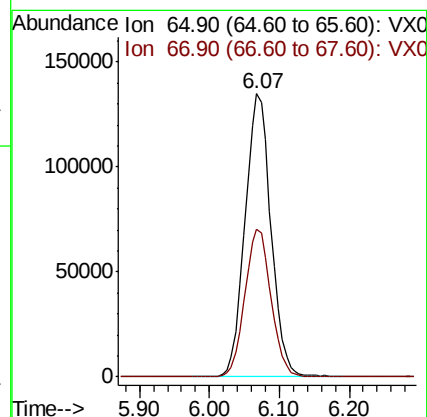
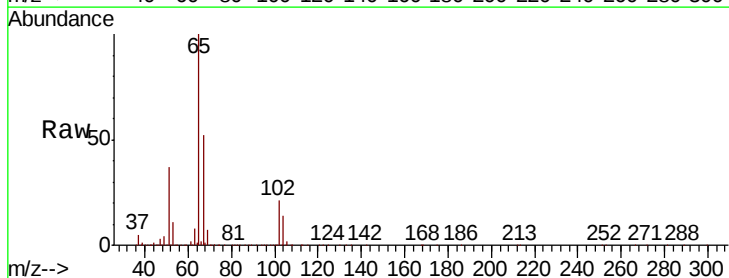
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

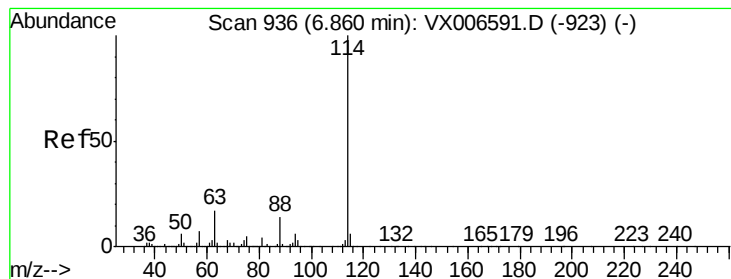
Tgt Ion: 42 Resp: 4688
Ion Ratio Lower Upper
42 100
72 57.5 38.9 58.3
71 54.8 36.2 54.4#



#33
1,2-Dichloroethane-d4
Concen: 50.757 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion: 65 Resp: 347674
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

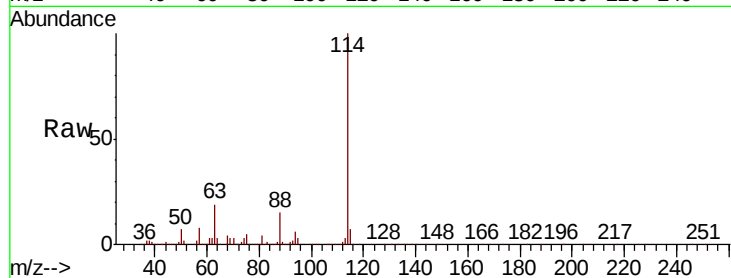
Tgt Ion:114 Resp: 995954

Ion Ratio Lower Upper

114 100

63 19.1 0.0 34.8

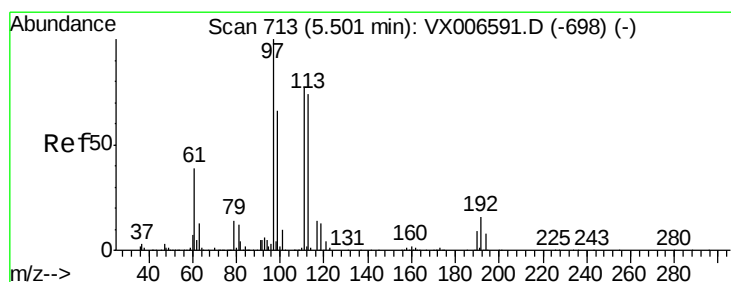
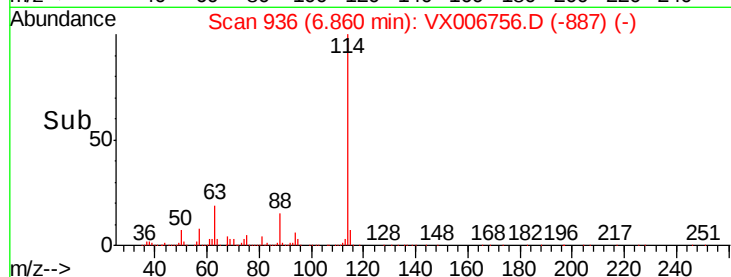
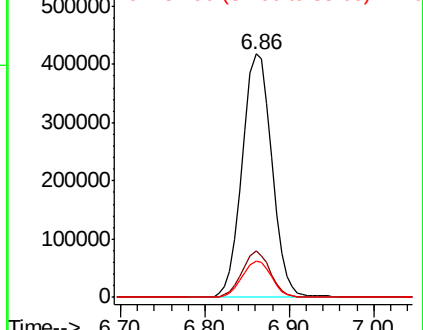
88 14.6 0.0 28.8



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: 47.651 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

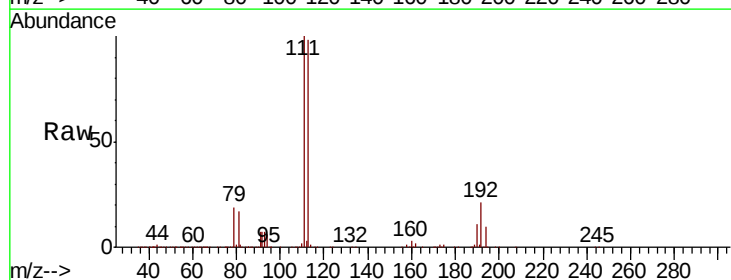
Tgt Ion:113 Resp: 300117

Ion Ratio Lower Upper

113 100

111 101.1 81.6 122.4

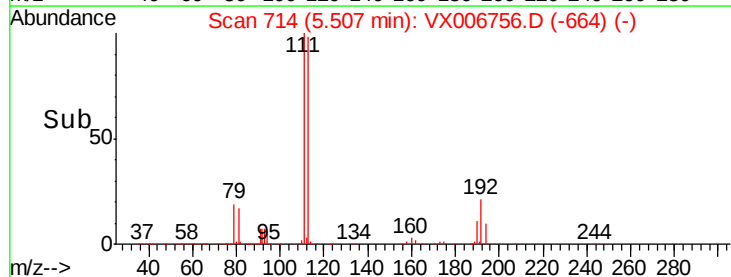
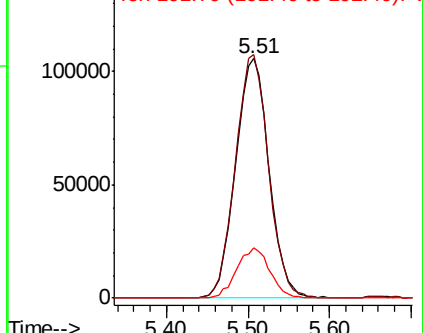
192 20.9 16.7 25.1

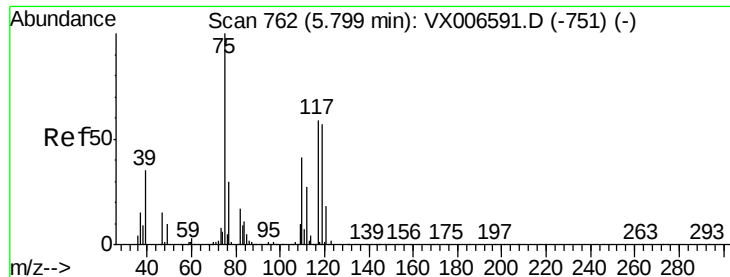


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

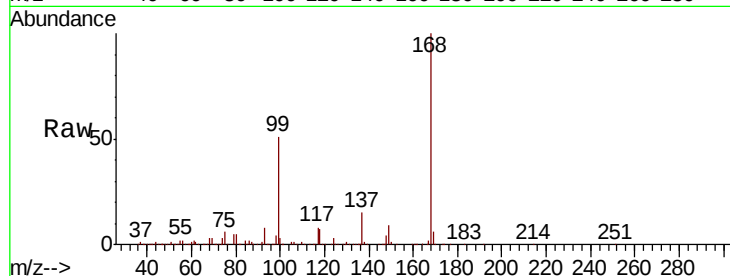




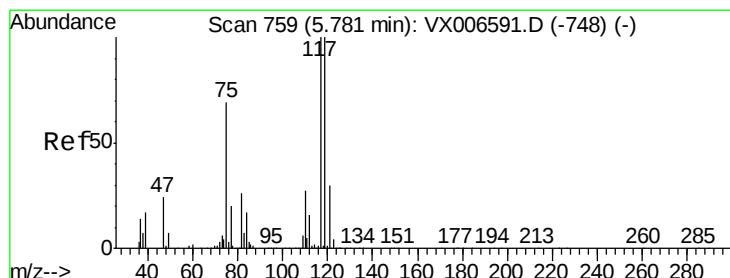
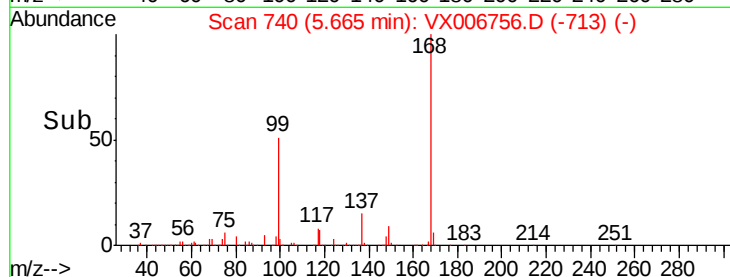
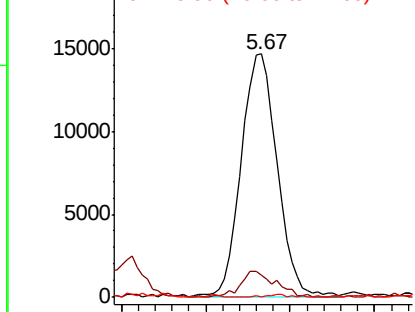
#36
 1,1-Dichloropropene
 Concen: 5.103 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

Tgt Ion: 75 Resp: 42094
 Ion Ratio Lower Upper
 75 100
 110 10.6 20.2 60.5#
 77 0.1 24.8 37.2#

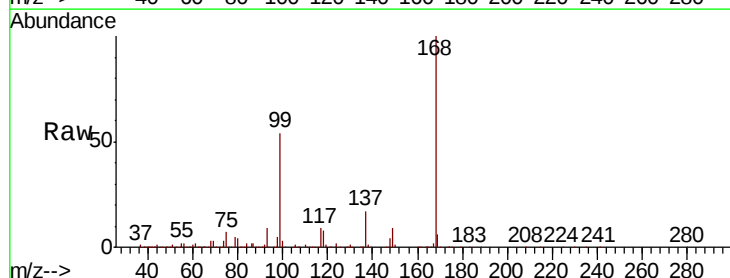


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

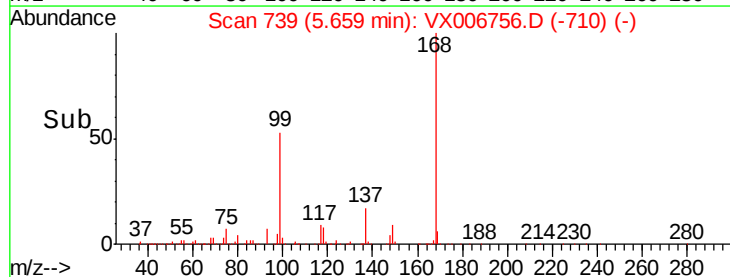
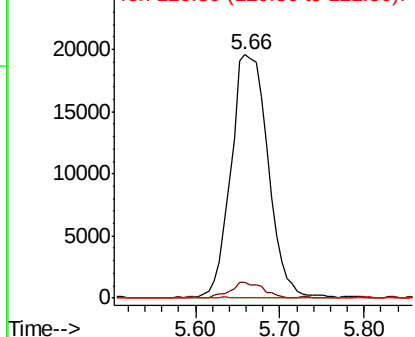


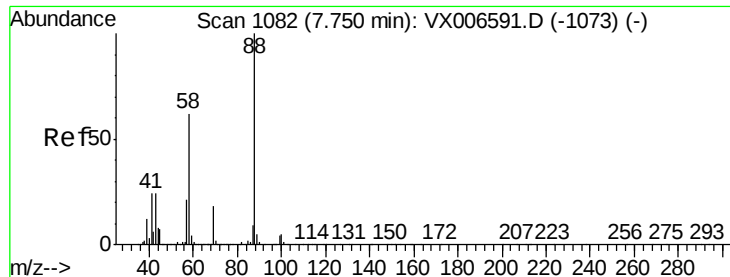
#38
 Carbon Tetrachloride
 Concen: 7.217 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

Tgt Ion: 117 Resp: 57852
 Ion Ratio Lower Upper
 117 100
 119 6.0 79.4 119.2#
 121 0.3 24.0 36.0#



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

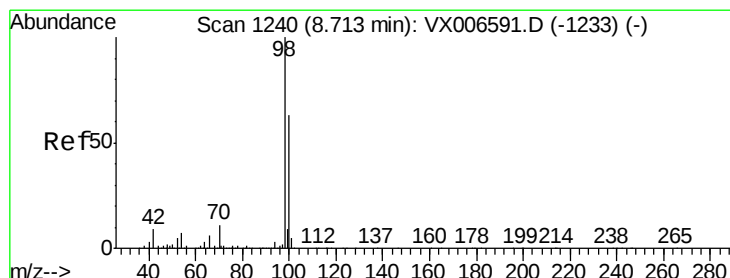
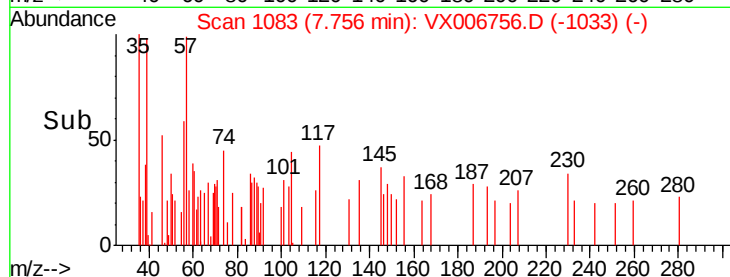
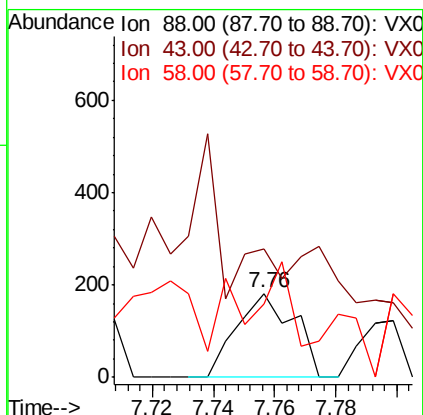
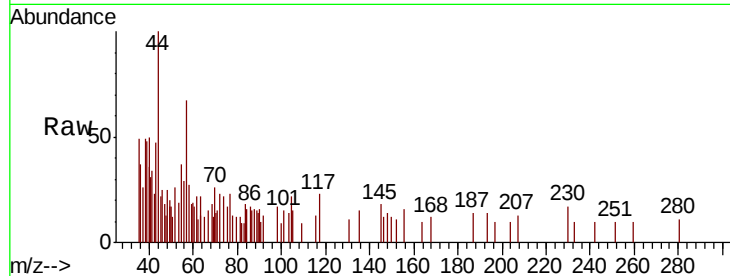




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

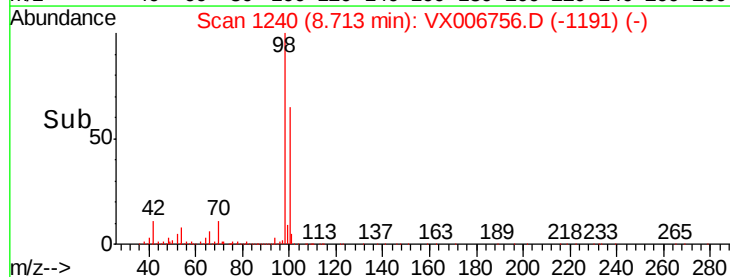
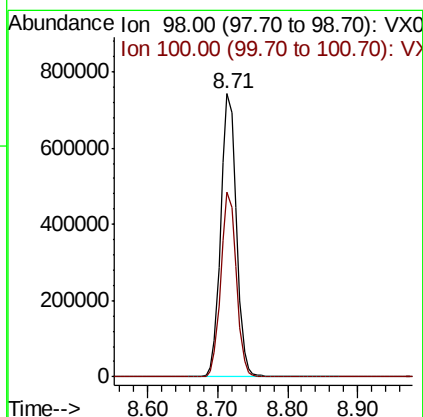
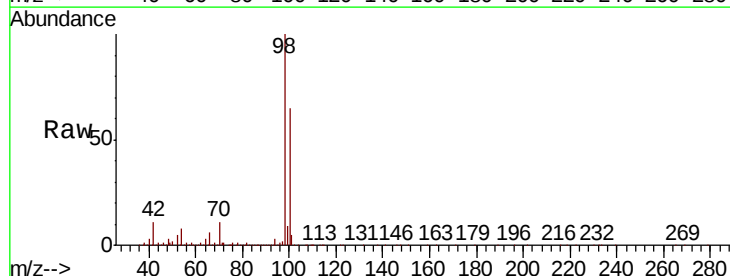
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

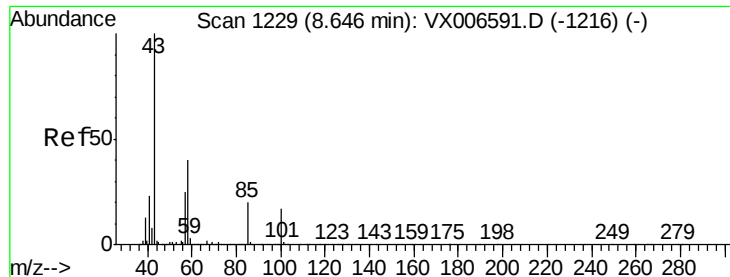
Tgt Ion: 88 Resp: 236
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 85.6 51.0 76.4#



#50
Toluene-d8
Concen: 48.829 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion: 98 Resp: 1159427
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0

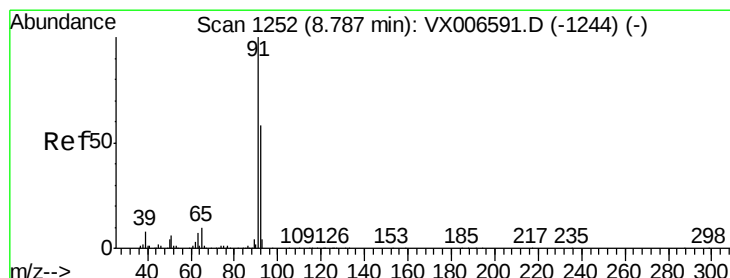
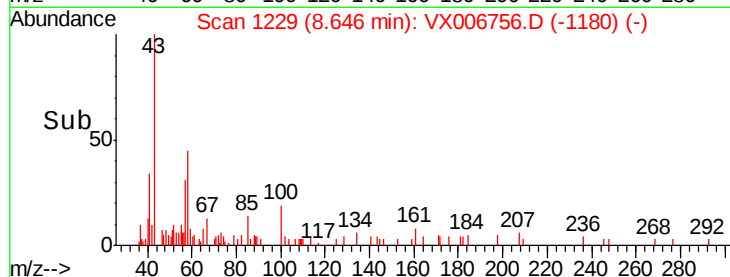
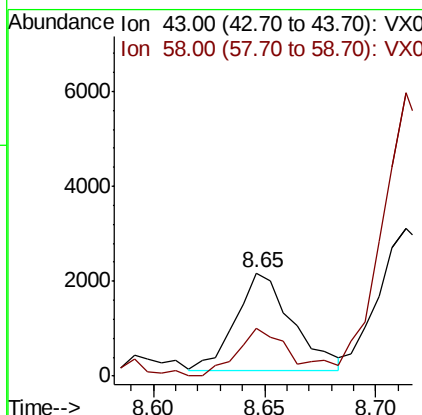
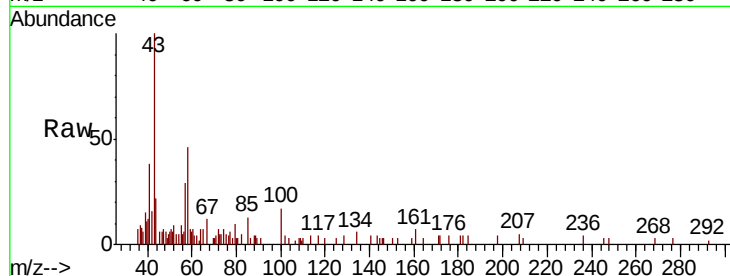




#51
 4-Methyl-2-Pentanone
 Concen: 0.438 ug/l
 RT: 8.65 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

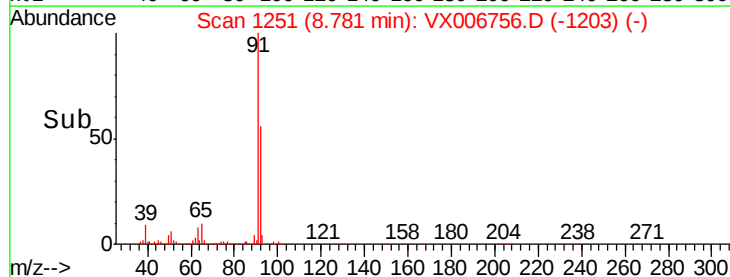
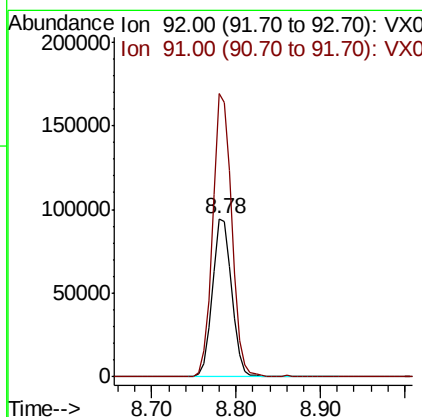
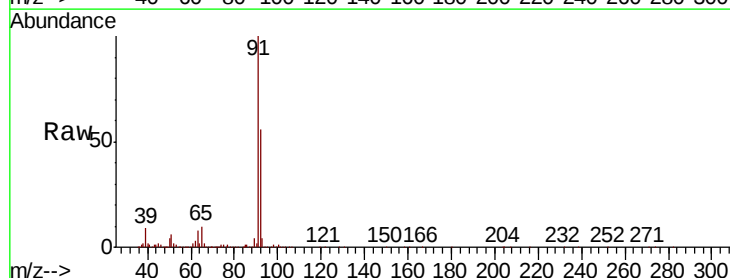
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

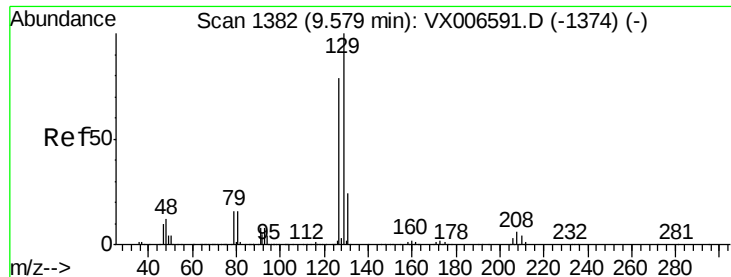
Tgt Ion: 43 Resp: 3637
 Ion Ratio Lower Upper
 43 100
 58 43.6 31.8 47.6



#52
 Toluene
 Concen: 9.361 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.01 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

Tgt Ion: 92 Resp: 151642
 Ion Ratio Lower Upper
 92 100
 91 175.0 137.6 206.4





#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. -0.09 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

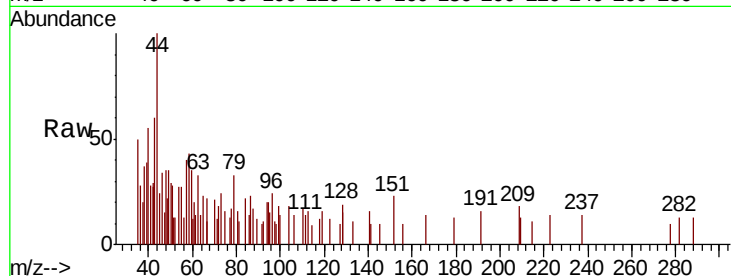
TP-GROUNDWATER-1-1

Tgt Ion:129 Resp: 50

Ion Ratio Lower Upper

129 100

127 40.0 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

100

80

60

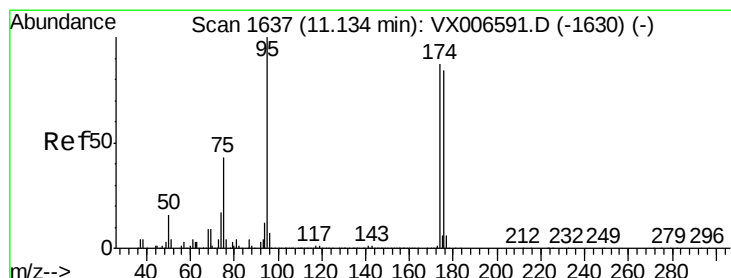
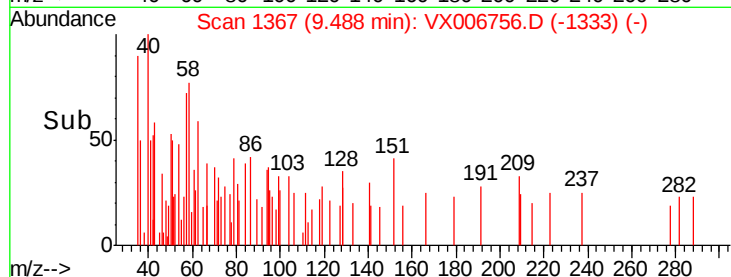
40

20

0

9.47 9.48 9.49 9.50

Time-->



#62

4-Bromofluorobenzene

Concen: 46.750 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

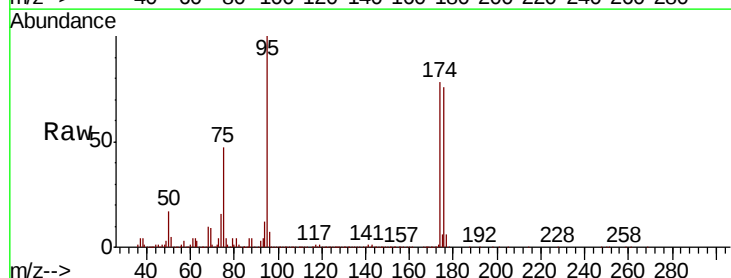
Tgt Ion: 95 Resp: 406546

Ion Ratio Lower Upper

95 100

174 87.0 0.0 182.2

176 84.4 0.0 178.8



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

400000

300000

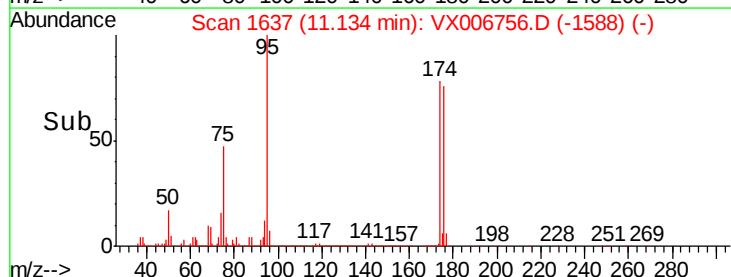
200000

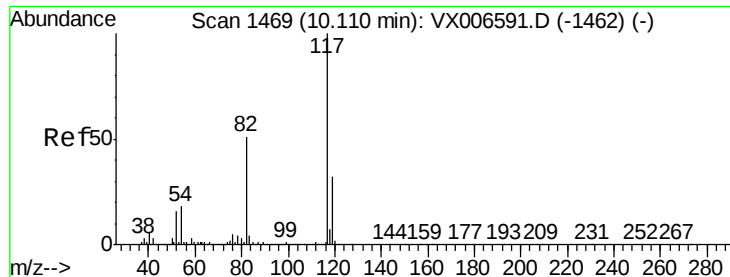
100000

0

11.10 11.13 11.20

Time-->

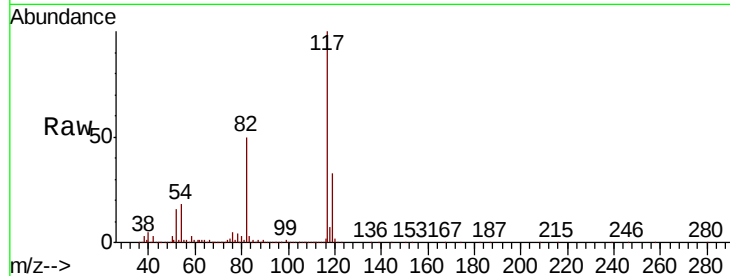




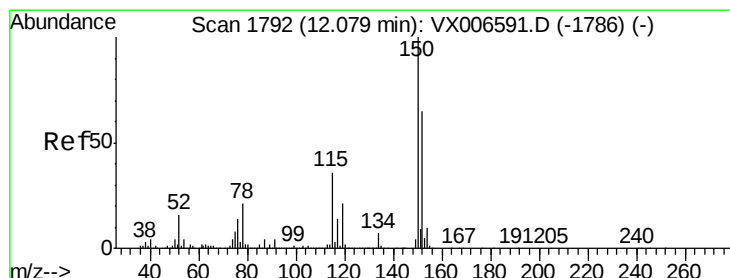
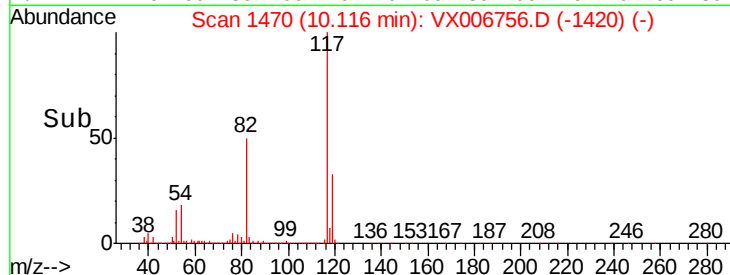
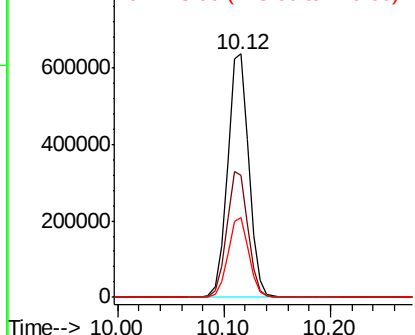
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

Tgt Ion:117 Resp: 888640
Ion Ratio Lower Upper
117 100
82 50.2 41.0 61.6
119 32.8 25.4 38.0

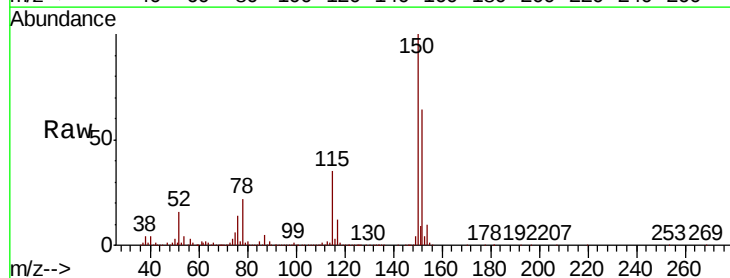


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

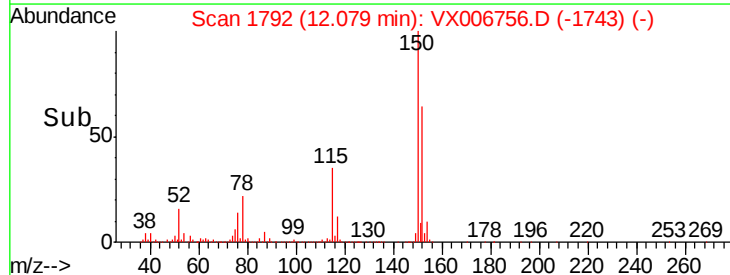
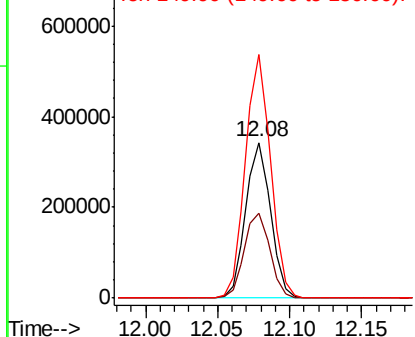


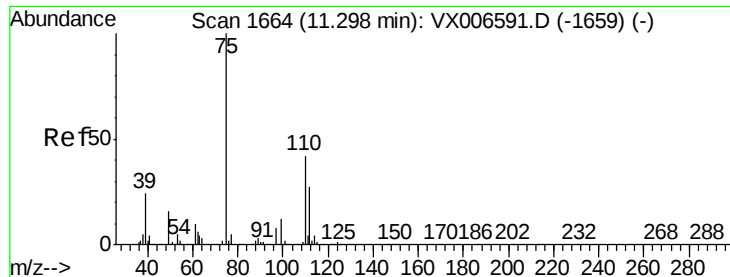
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006756.D
Acq: 22 Dec 2018 06:39

Tgt Ion:152 Resp: 409195
Ion Ratio Lower Upper
152 100
115 56.5 39.1 117.2
150 159.2 0.0 344.8



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

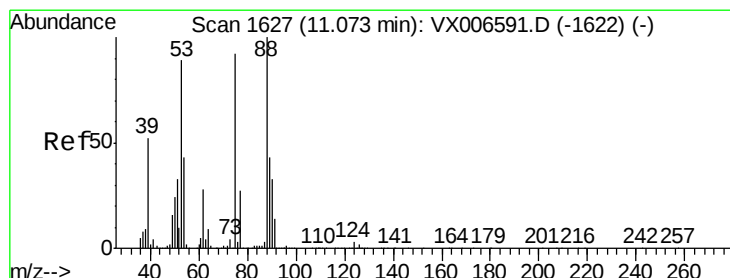
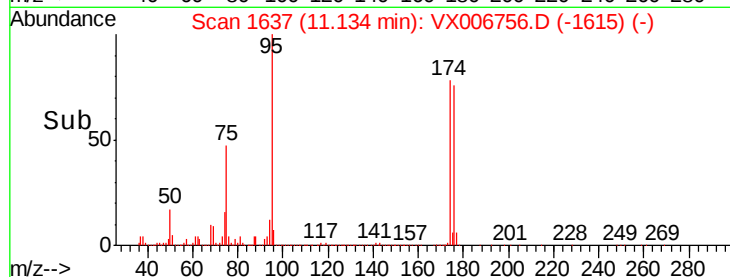
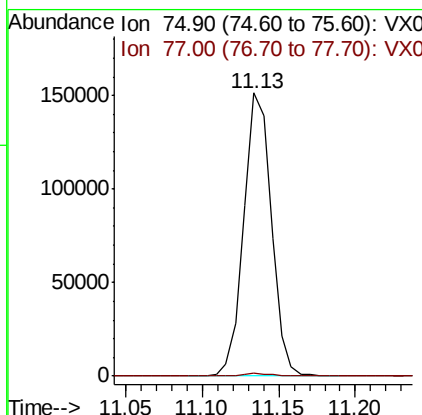
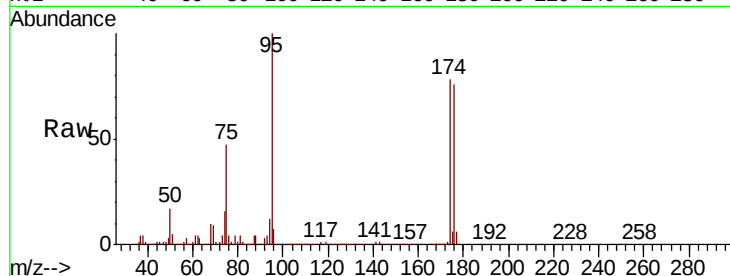




#76
 1,2,3-Trichloropropane
 Concen: 25.008 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

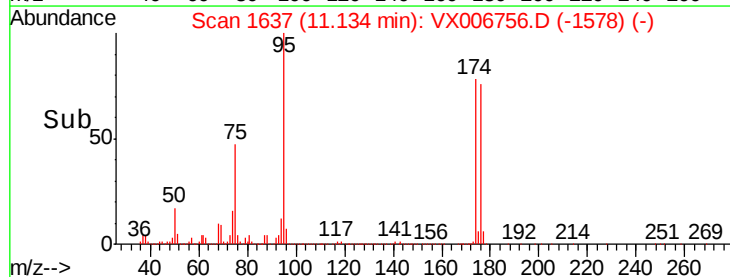
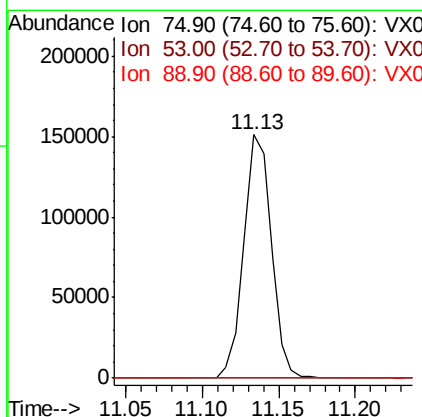
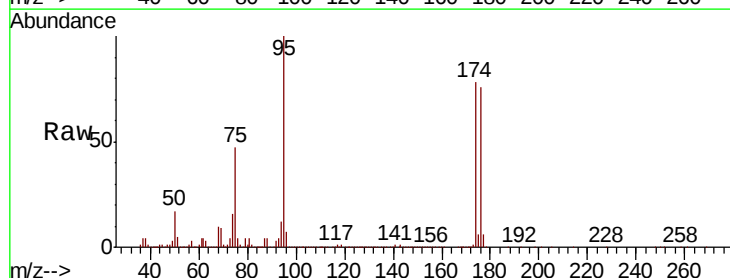
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

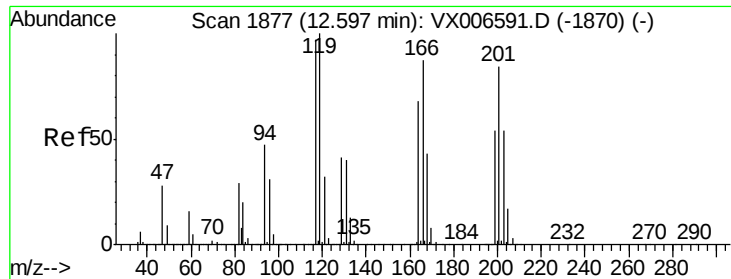
Tgt Ion: 75 Resp: 190174
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.896 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006756.D
 Acq: 22 Dec 2018 06:39

Tgt Ion: 75 Resp: 190174
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.317 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

Instrument :

MSVOA_X

ClientSampleId :

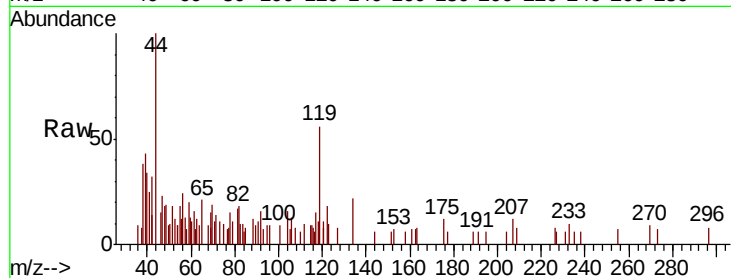
TP-GROUNDWATER-1-1

Tgt Ion: 117 Resp: 101

Ion Ratio Lower Upper

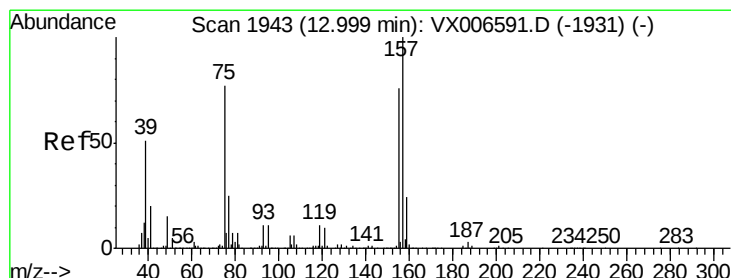
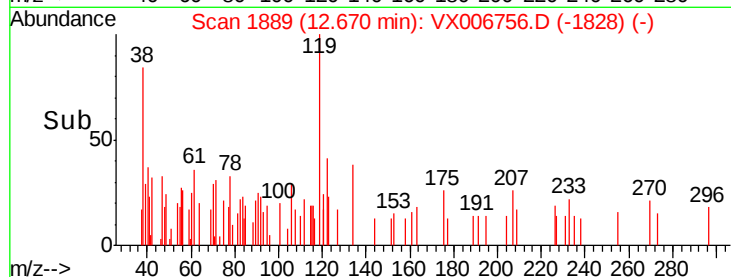
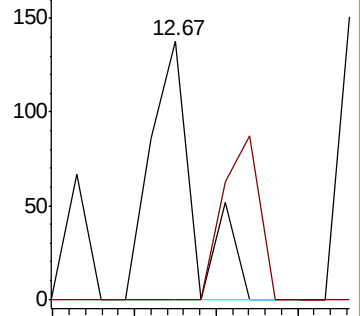
117 100

201 54.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.205 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX006756.D

Acq: 22 Dec 2018 06:39

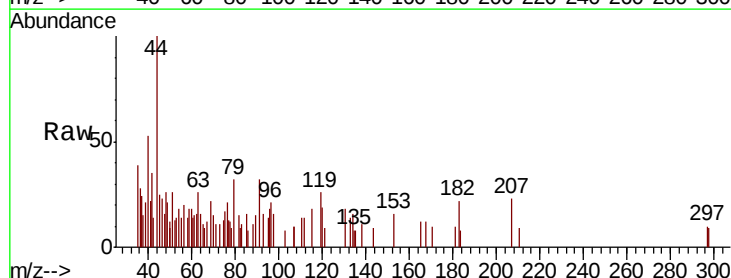
Tgt Ion: 75 Resp: 354

Ion Ratio Lower Upper

75 100

155 0.0 50.6 151.8#

157 0.0 64.6 193.8#



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

