

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006720.D
 Acq On : 21 Dec 2018 13:43
 Operator : JC/MD
 Sample : J6503-01 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

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

Quant Time: Dec 22 04:02:33 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	631769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	962868	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	840106	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	414990	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	325808	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	5.50	113	286955	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
50) Toluene-d8	8.71	98	1104275	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
62) 4-Bromofluorobenzene	11.14	95	383245	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	

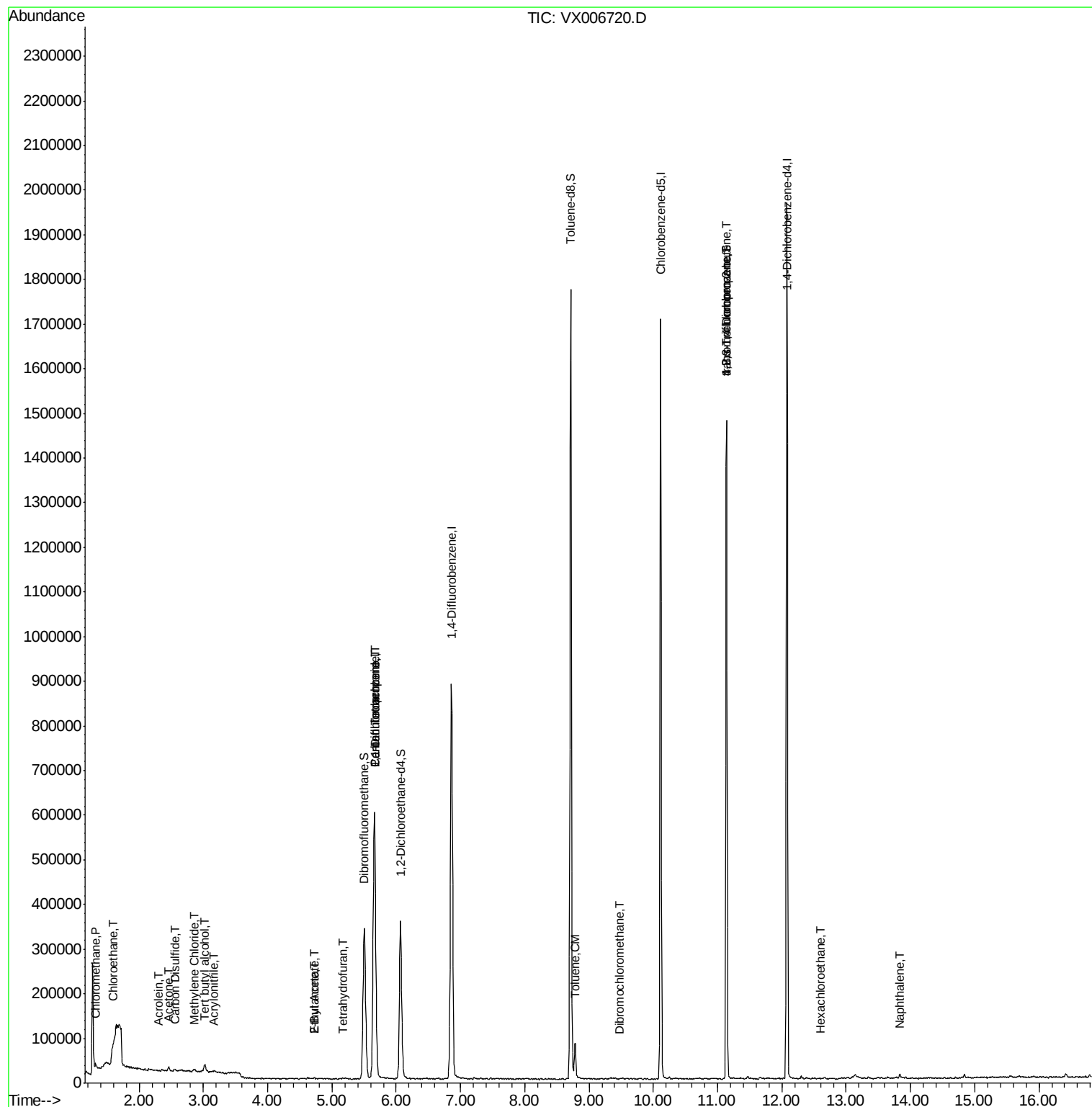
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2913	0.468	ug/l	90
5) Bromomethane	1.64	94	7978	Below Cal		94
6) Chloroethane	1.59	64	17542	3.896	ug/l #	49
11) Tert butyl alcohol	3.03	59	9859	6.488	ug/l #	79
13) Acrolein	2.29	56	440	0.429	ug/l #	67
15) Acrylonitrile	3.16	53	794	0.235	ug/l #	71
16) Acetone	2.46	43	11601	3.708	ug/l #	88
17) Carbon Disulfide	2.56	76	4781	0.320	ug/l	98
20) Methylene Chloride	2.85	84	3305	0.511	ug/l #	76
25) 2-Butanone	4.72	43	2819	0.641	ug/l #	87
28) Bromochloromethane	5.03	49	204	Below Cal	#	43
29) Tetrahydrofuran	5.17	42	1477	0.510	ug/l #	56
36) 1,1-Dichloropropene	5.66	75	39926	5.007	ug/l #	49
37) Ethyl Acetate	4.72	43	3020	0.364	ug/l	94
38) Carbon Tetrachloride	5.66	117	56282	7.262	ug/l #	15
49) 1,4-Dioxane	7.76	88	86	Below Cal	#	1
52) Toluene	8.79	92	28959	1.849	ug/l	96
60) Dibromochloromethane	9.48	129	67	2.334	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	179884	23.324	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	179884	69.207	ug/l #	10
90) Hexachloroethane	12.59	117	61	3.308	ug/l	67
95) Naphthalene	13.83	128	7206	0.237	ug/l #	92

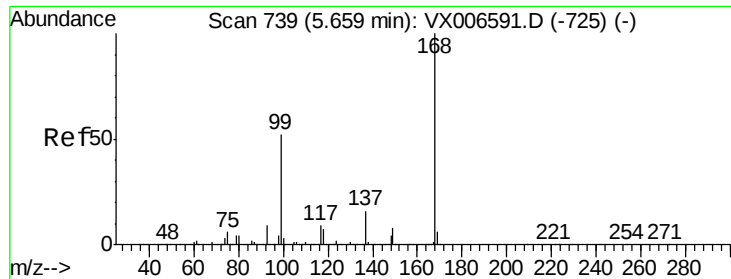
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

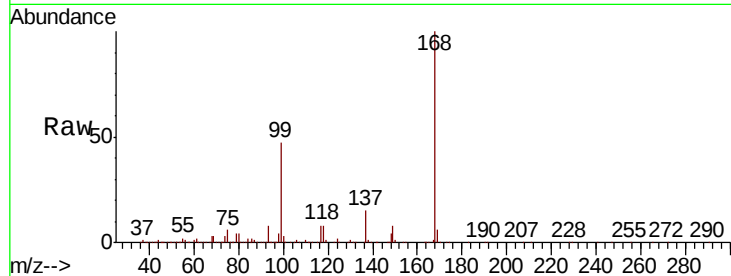
TP-GROUNDWATER-1-1

Tot Ion:168 Resp: 631769

Ion Ratio Lower Upper

168 100

99 47.2 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

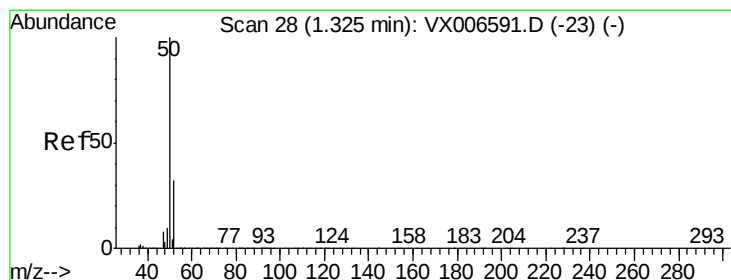
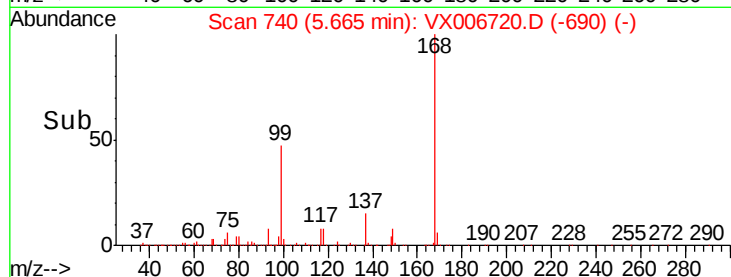
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.468 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX006720.D

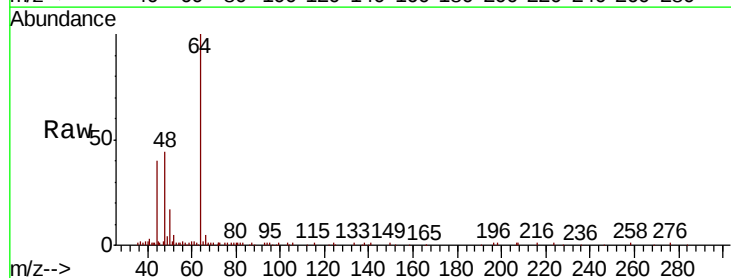
Acq: 21 Dec 2018 13:43

Tgt Ion: 50 Resp: 2913

Ion Ratio Lower Upper

50 100

52 26.1 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

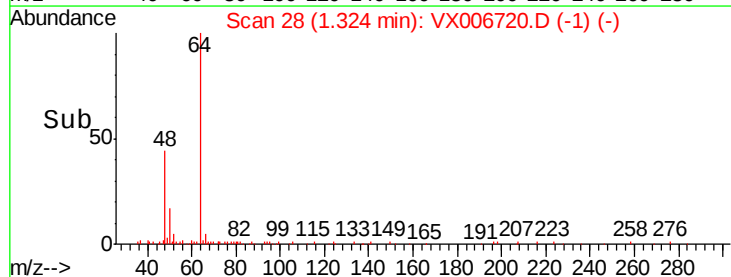
3000

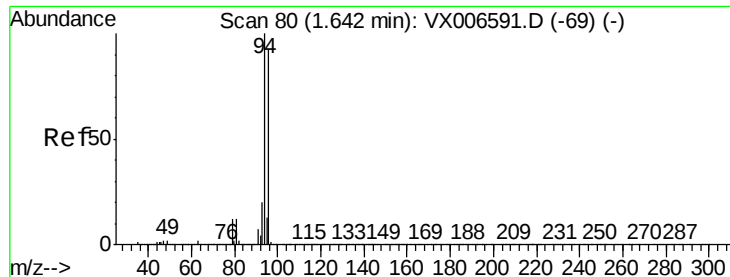
2000

1000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

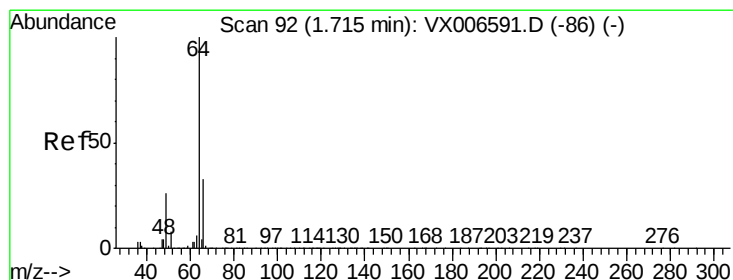
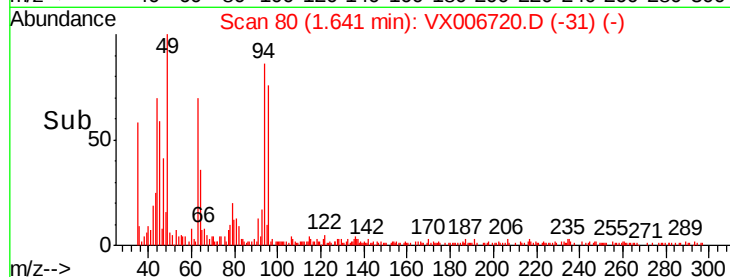
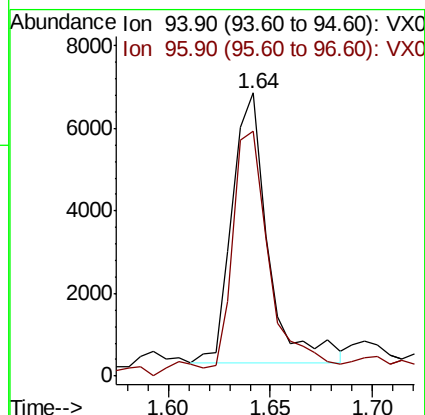
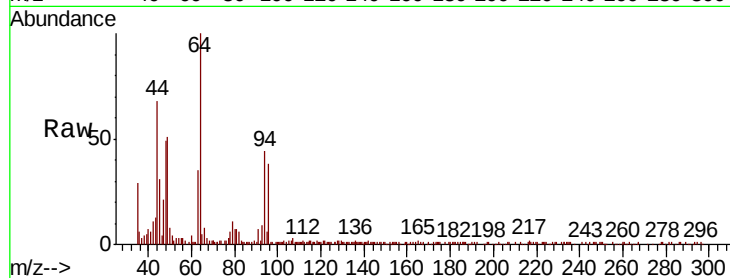
TP-GROUNDWATER-1-1

Tot Ion: 94 Resp: 7978

Ion Ratio Lower Upper

94 100

96 86.1 73.4 110.2



#6

Chloroethane

Concen: 3.896 ug/l

RT: 1.59 min Scan# 71

Delta R.T. -0.13 min

Lab File: VX006720.D

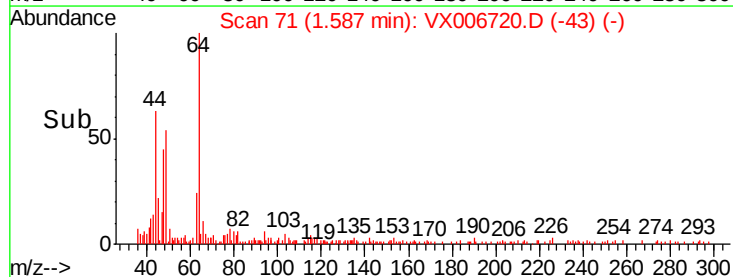
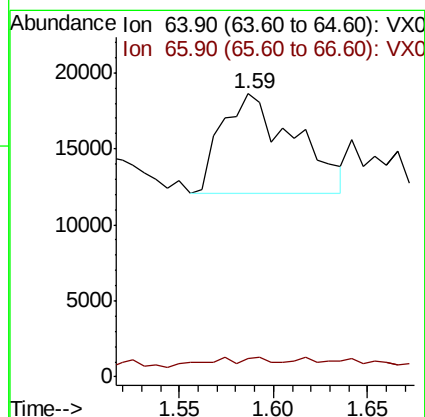
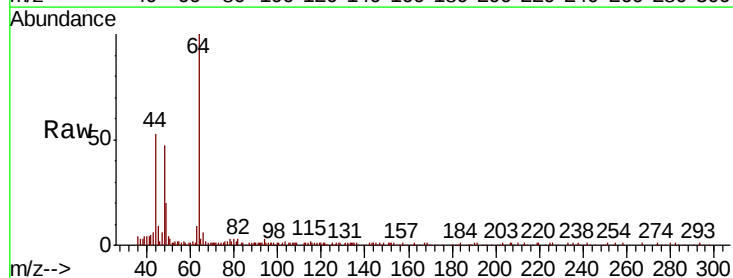
Acq: 21 Dec 2018 13:43

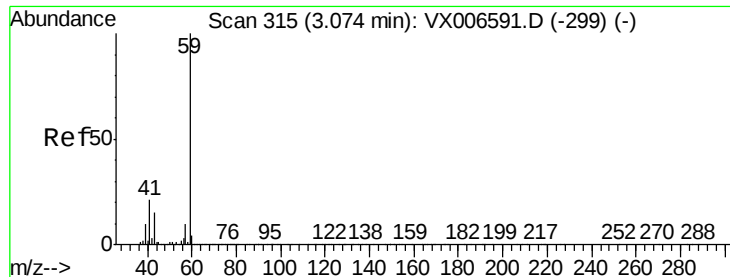
Tgt Ion: 64 Resp: 17542

Ion Ratio Lower Upper

64 100

66 4.2 26.4 39.6#

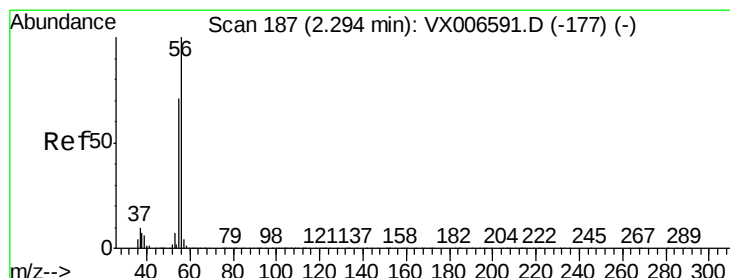
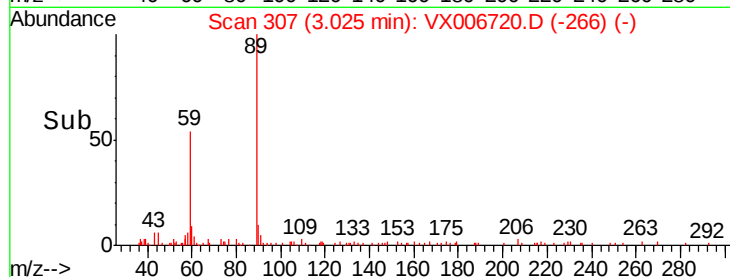
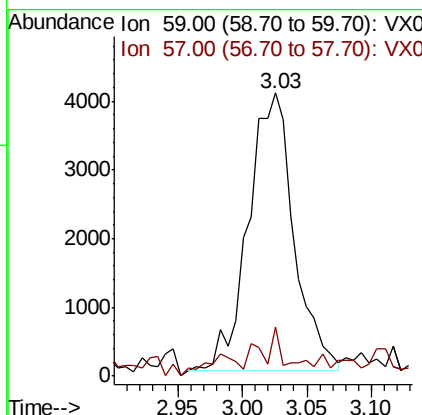
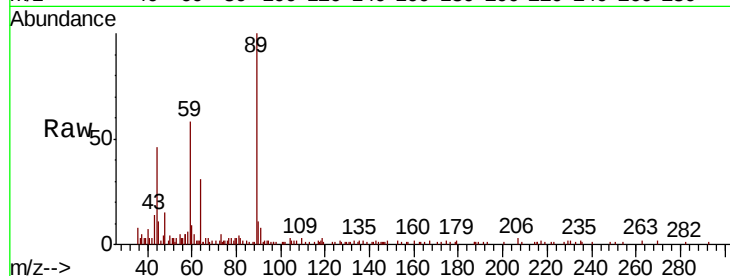




#11
Tert butyl alcohol
Concen: 6.488 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006720.D
Acq: 21 Dec 2018 13:43

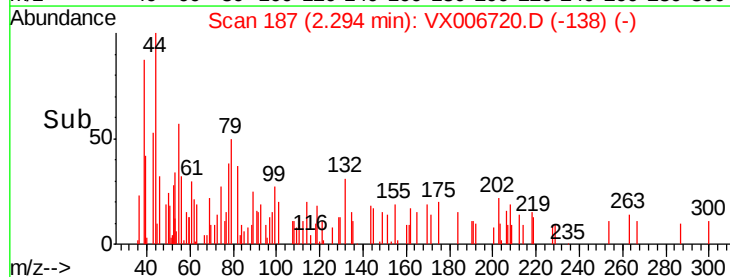
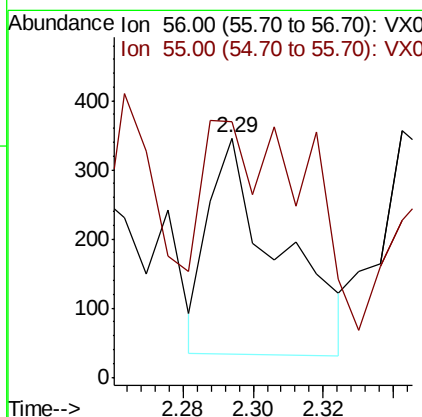
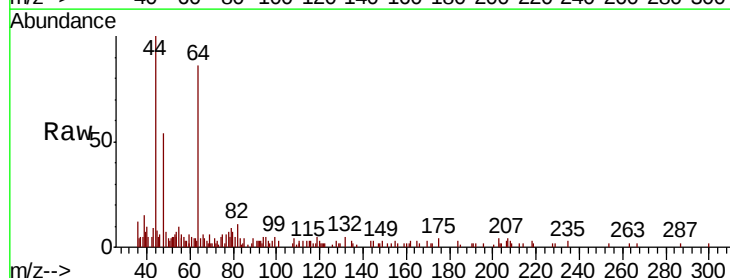
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

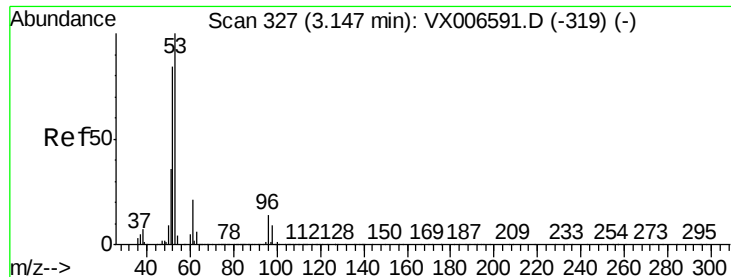
Tot Ion: 59 Resp: 9859
Ion Ratio Lower Upper
59 100
57 2.9 8.5 12.7#



#13
Acrolein
Concen: 0.429 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX006720.D
Acq: 21 Dec 2018 13:43

Tgt Ion: 56 Resp: 440
Ion Ratio Lower Upper
56 100
55 45.5 58.2 87.4#





#15

Acrylonitrile

Concen: 0.235 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

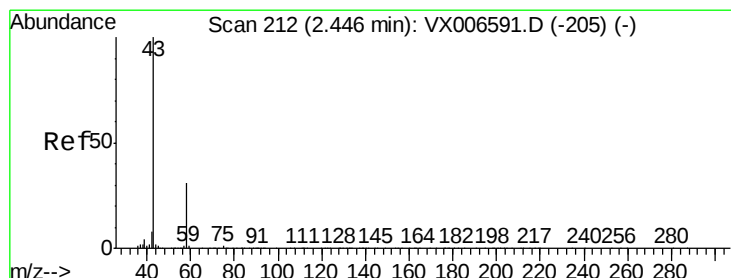
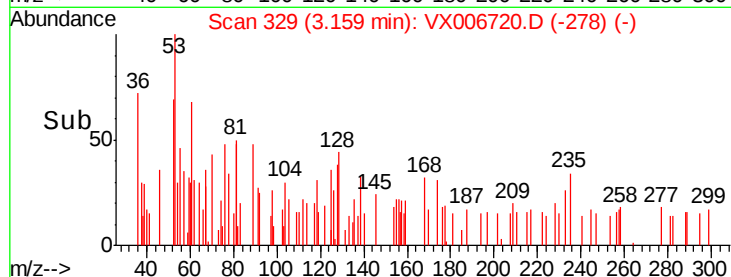
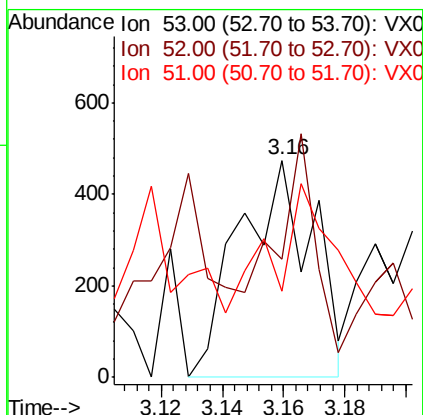
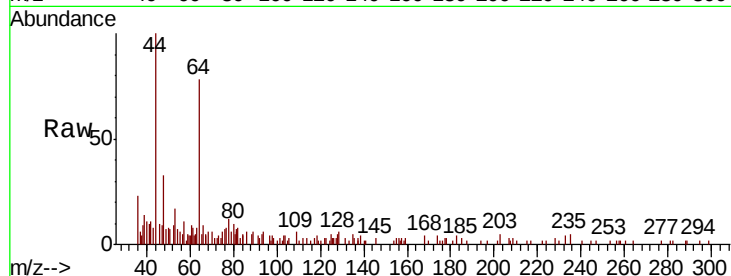
Tot Ion: 53 Resp: 794

Ion Ratio Lower Upper

53 100

52 52.5 66.0 99.0#

51 46.3 28.6 42.8#



#16

Acetone

Concen: 3.708 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX006720.D

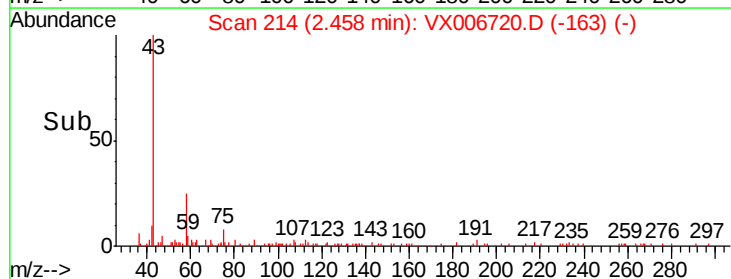
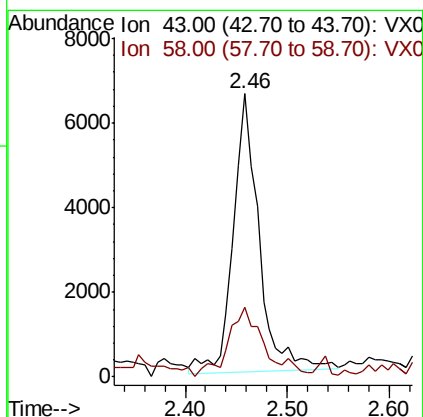
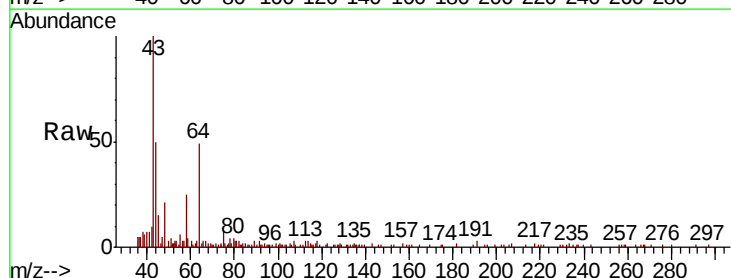
Acq: 21 Dec 2018 13:43

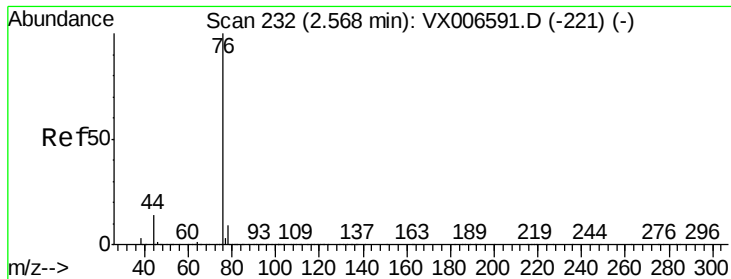
Tgt Ion: 43 Resp: 11601

Ion Ratio Lower Upper

43 100

58 24.7 25.0 37.6#





#17

Carbon Disulfide

Concen: 0.320 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

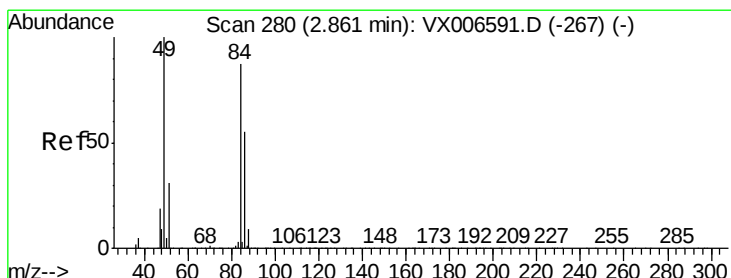
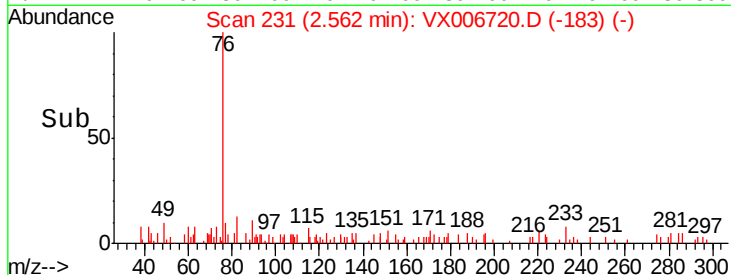
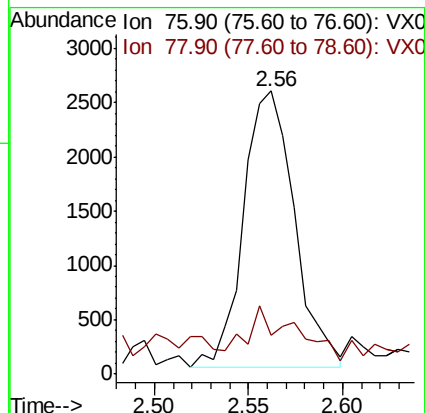
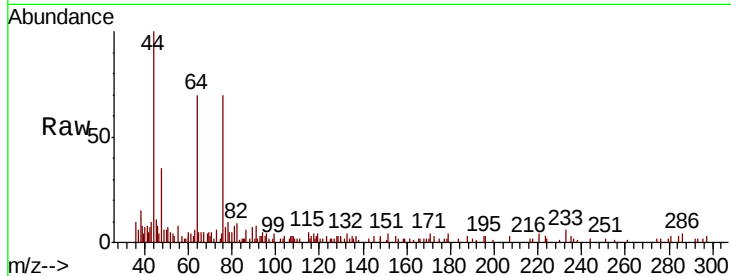
TP-GROUNDWATER-1-1

Tot Ion: 76 Resp: 4781

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.6



#20

Methylene Chloride

Concen: 0.511 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Tgt Ion: 84 Resp: 3305

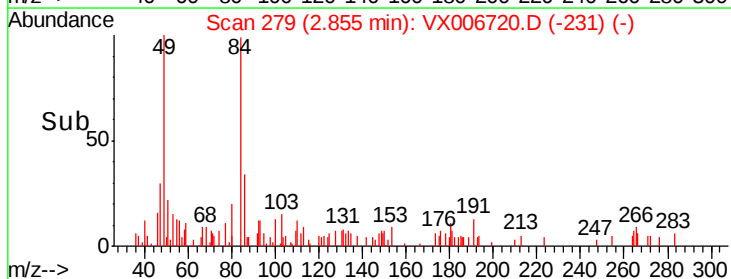
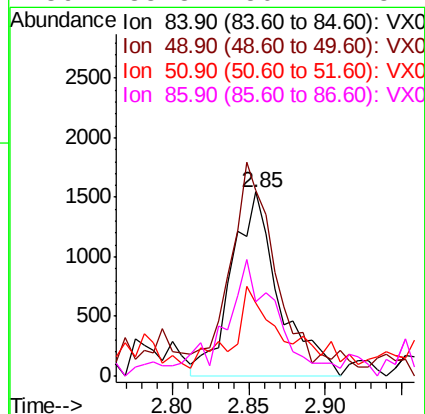
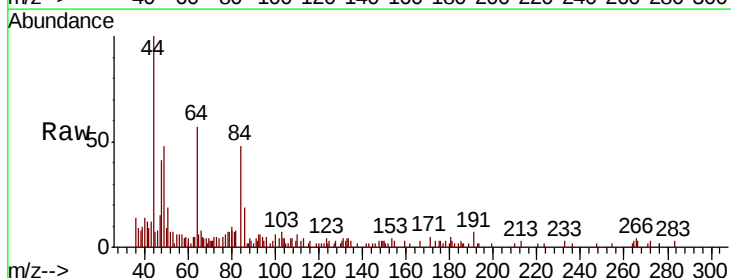
Ion Ratio Lower Upper

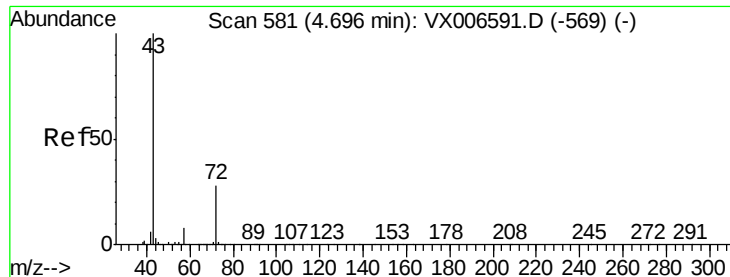
84 100

49 86.8 91.8 137.6#

51 35.1 28.5 42.7

86 35.8 50.2 75.2#





#25

2-Butanone

Concen: 0.641 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

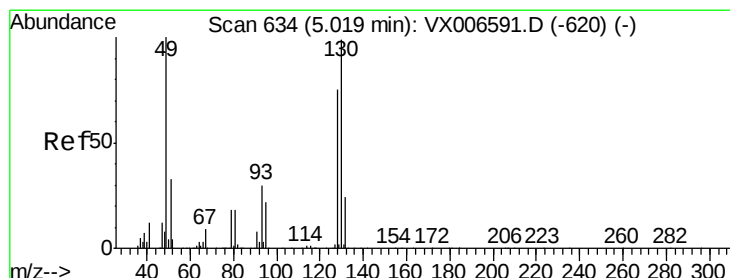
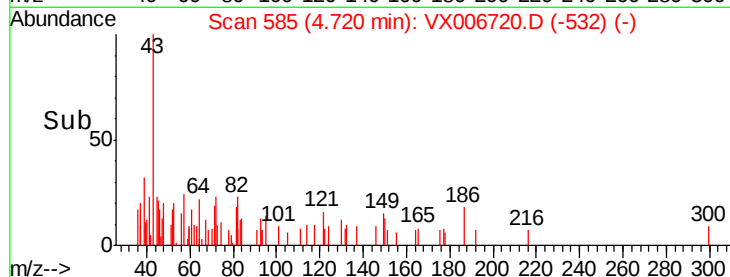
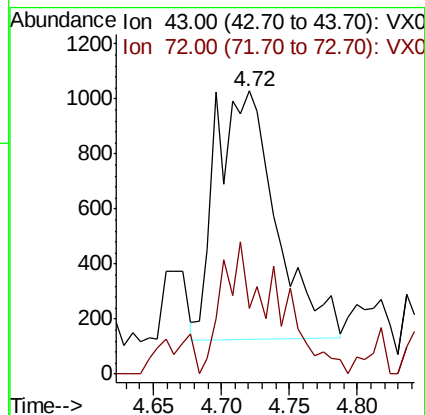
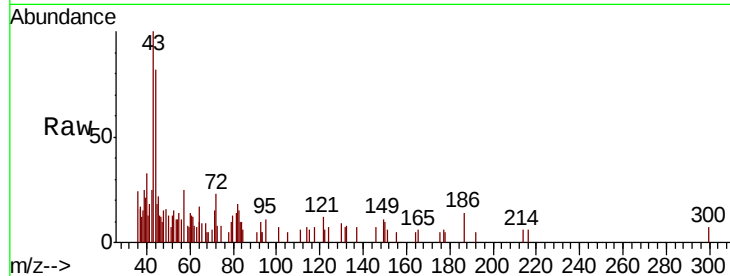
TP-GROUNDWATER-1-1

Tot Ion: 43 Resp: 2819

Ion Ratio Lower Upper

43 100

72 20.9 22.4 33.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

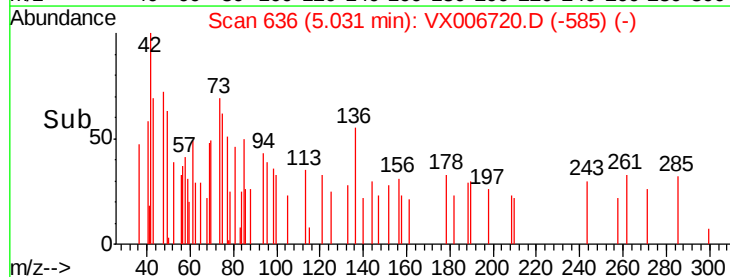
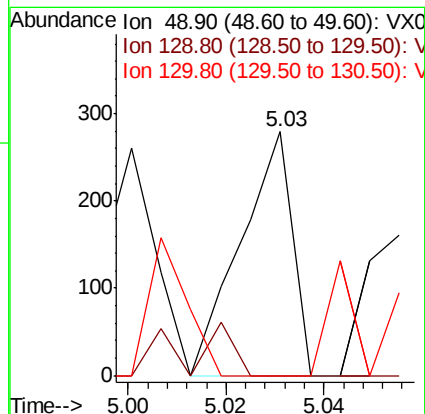
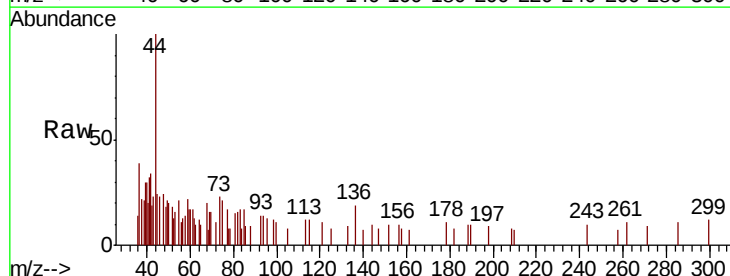
Tgt Ion: 49 Resp: 204

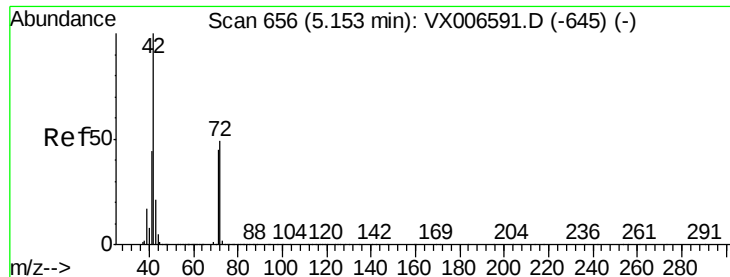
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 40.2 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.510 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

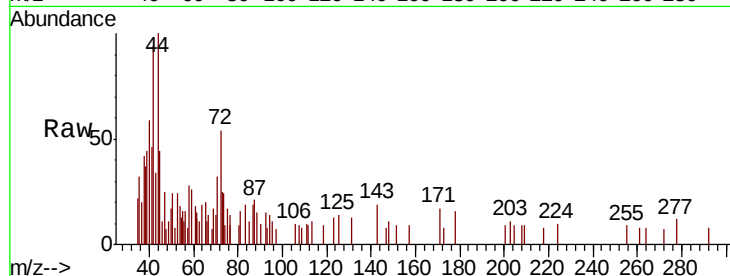
Tot Ion: 42 Resp: 1477

Ion Ratio Lower Upper

42 100

72 34.4 38.9 58.3#

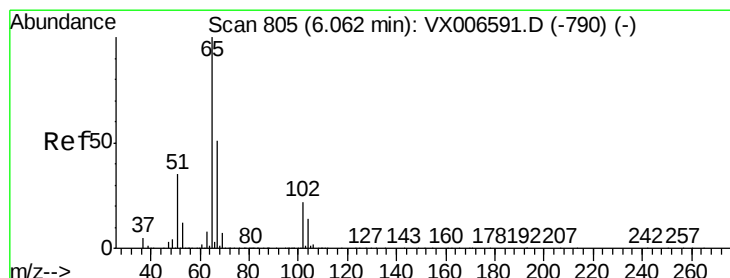
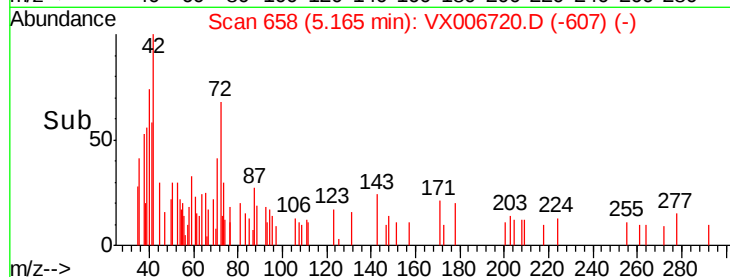
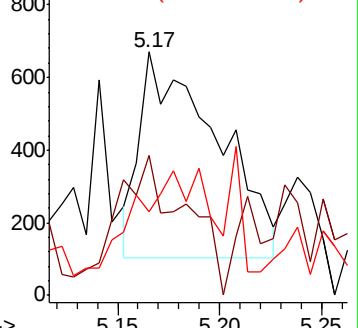
71 0.0 36.2 54.4#



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



#33

1,2-Dichloroethane-d4

Concen: 47.850 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006720.D

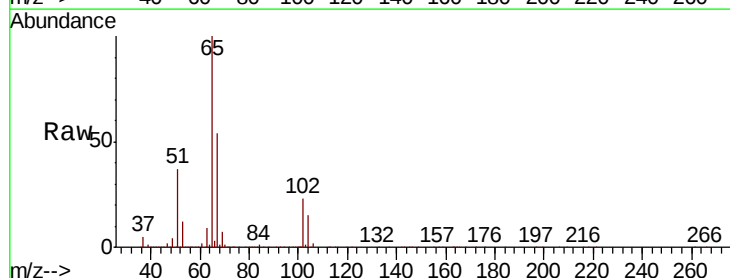
Acq: 21 Dec 2018 13:43

Tgt Ion: 65 Resp: 325808

Ion Ratio Lower Upper

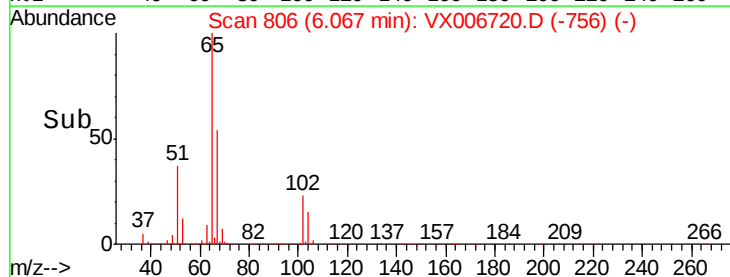
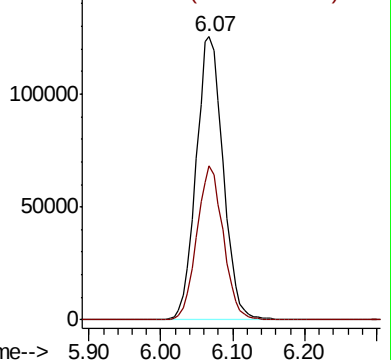
65 100

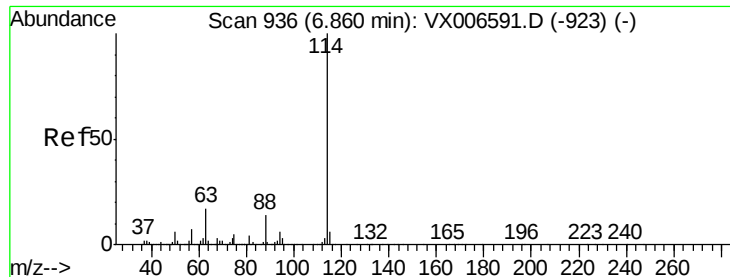
67 53.0 0.0 105.0



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: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

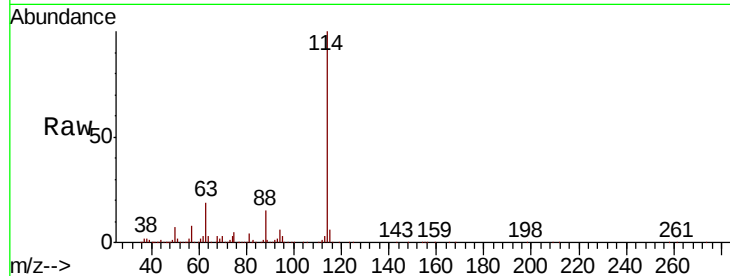
Tot Ion:114 Resp: 962868

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

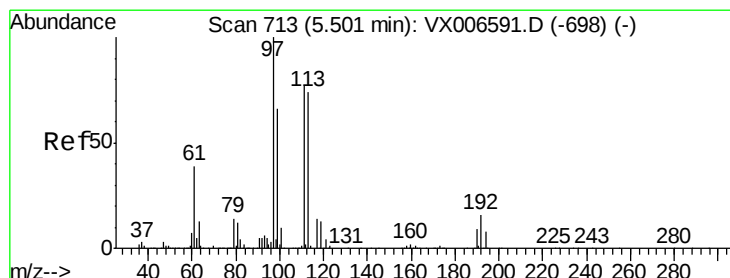
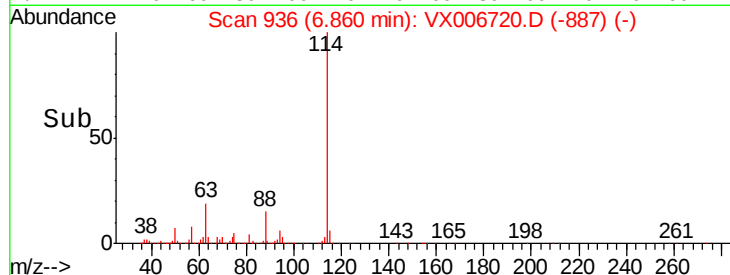
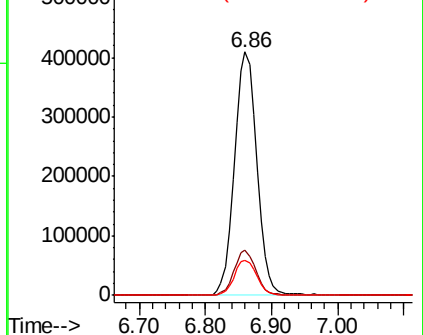
88 14.6 0.0 28.8



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: 47.127 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

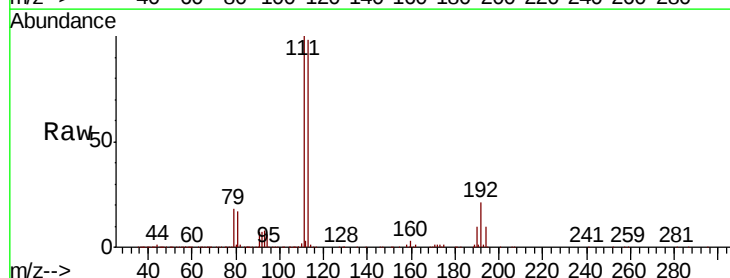
Tgt Ion:113 Resp: 286955

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

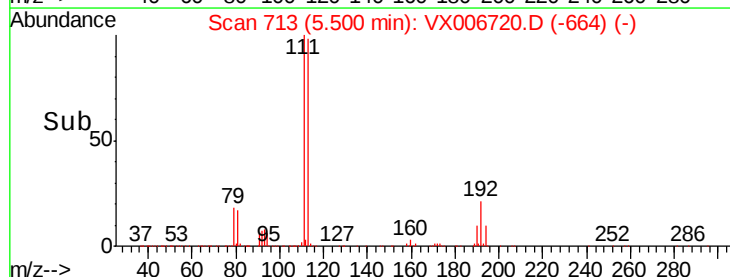
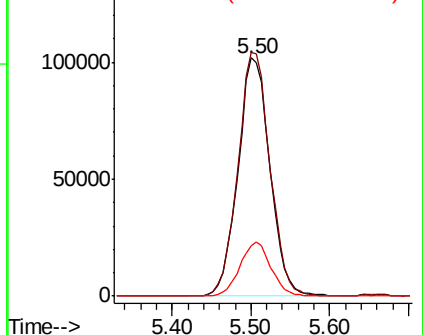
192 22.2 16.7 25.1

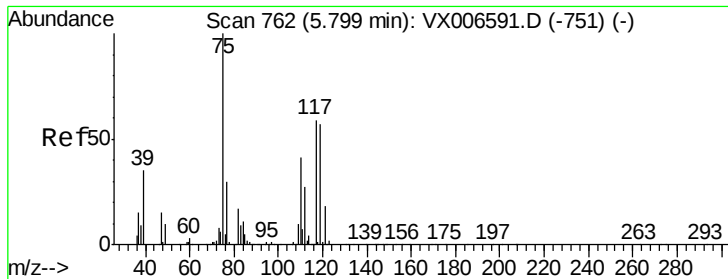


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.007 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

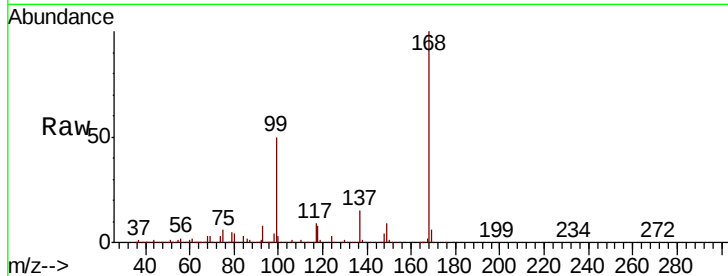
Tot Ion: 75 Resp: 39926

Ion Ratio Lower Upper

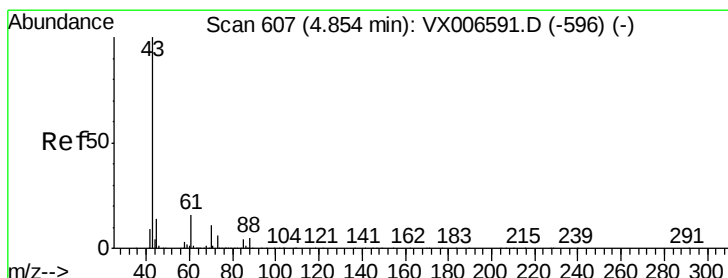
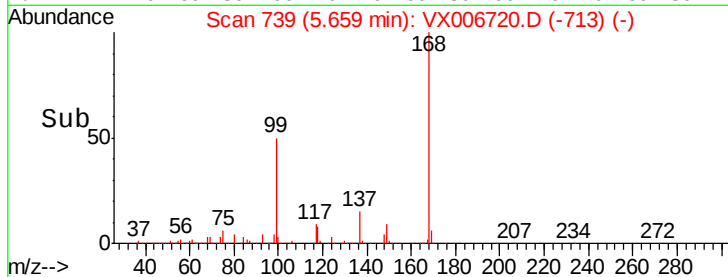
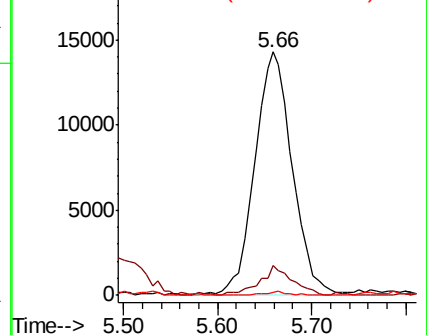
75 100

110 10.6 20.2 60.5#

77 1.1 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



#37

Ethyl Acetate

Concen: 0.364 ug/l

RT: 4.72 min Scan# 585

Delta R.T. -0.13 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

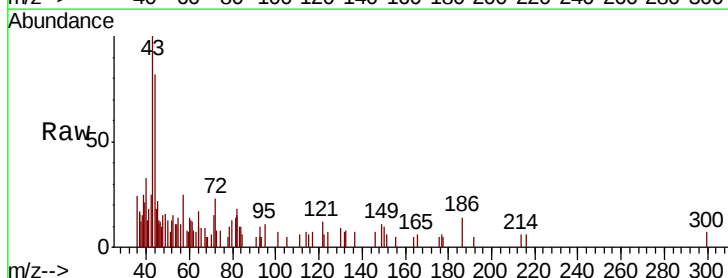
Tgt Ion: 43 Resp: 3020

Ion Ratio Lower Upper

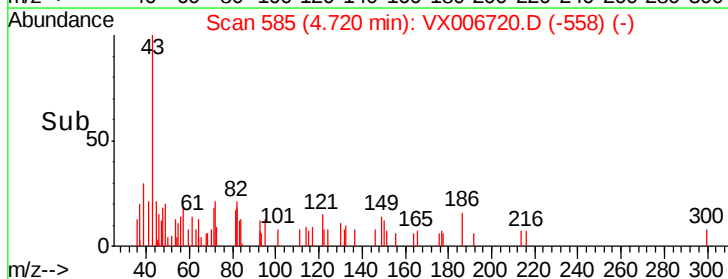
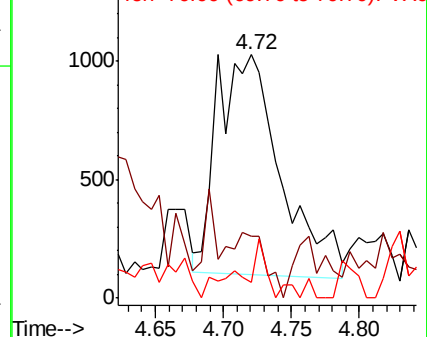
43 100

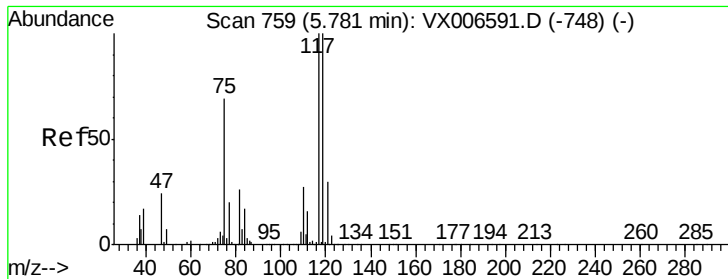
61 12.1 11.9 17.9

70 10.3 9.7 14.5



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.262 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

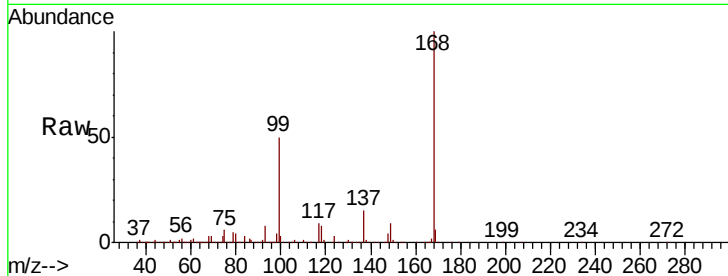
Tot Ion:117 Resp: 56282

Ion Ratio Lower Upper

117 100

119 6.1 79.4 119.2#

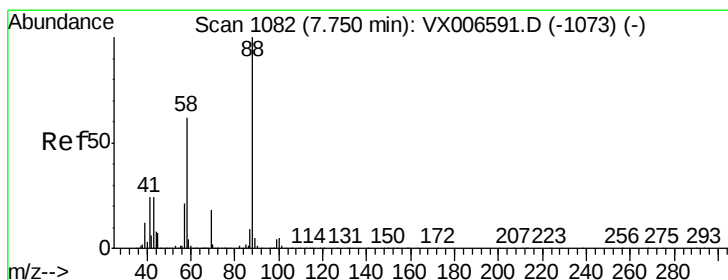
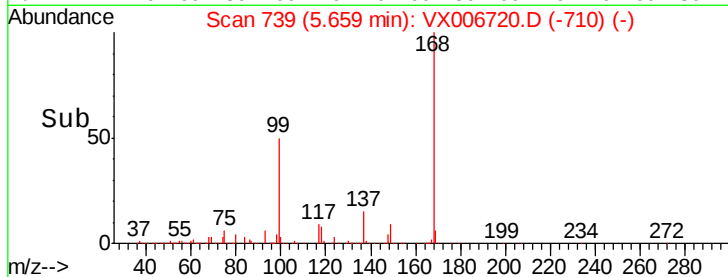
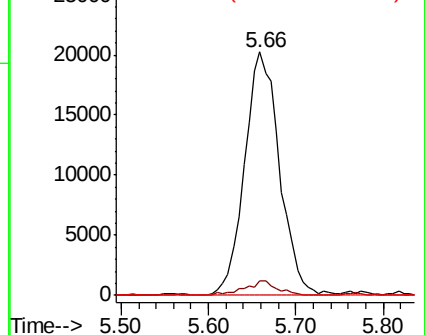
121 0.0 24.0 36.0#



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: VX006720.D

Acq: 21 Dec 2018 13:43

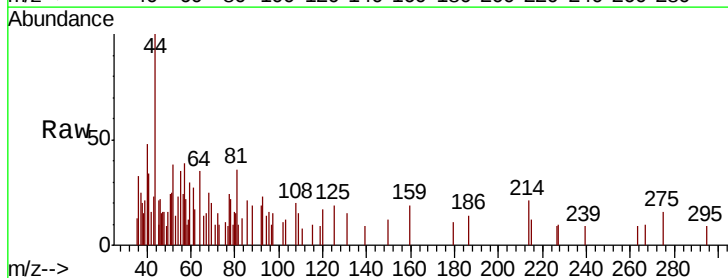
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

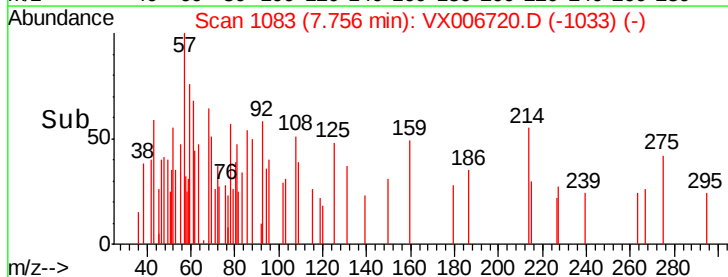
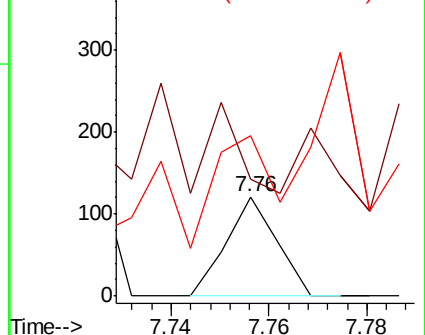
58 238.4 51.0 76.4#

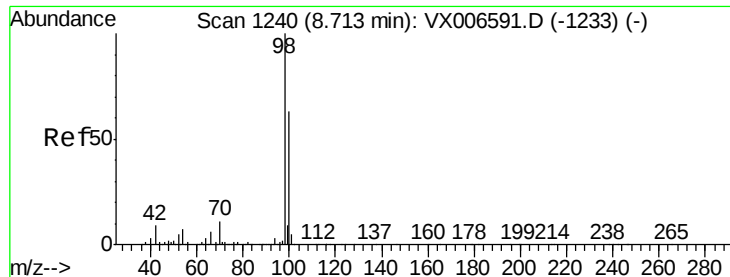


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.105 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

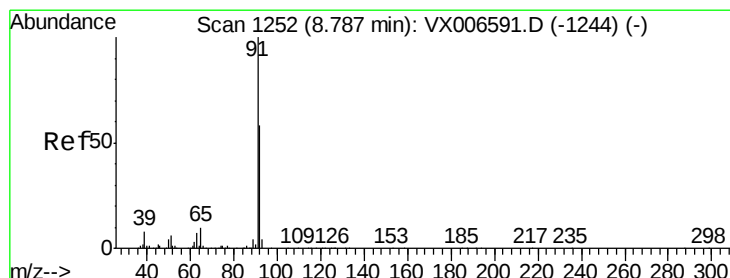
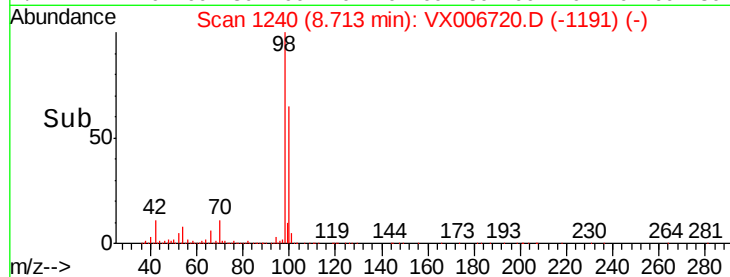
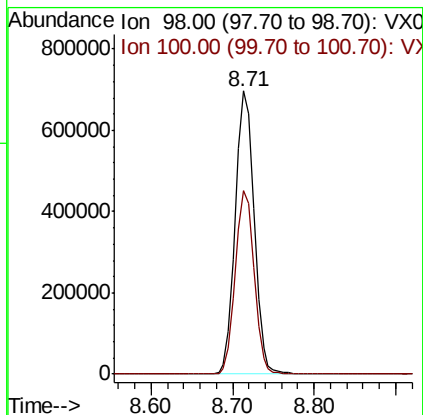
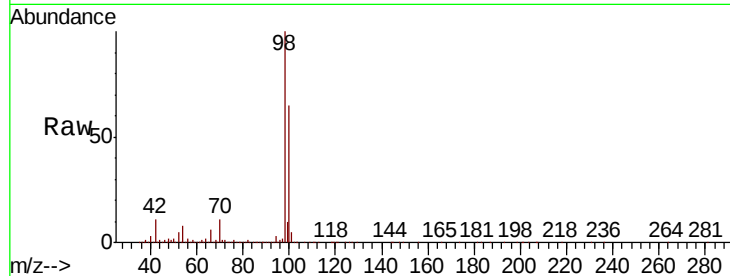
TP-GROUNDWATER-1-1

Tot Ion: 98 Resp: 1104275

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#52

Toluene

Concen: 1.849 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006720.D

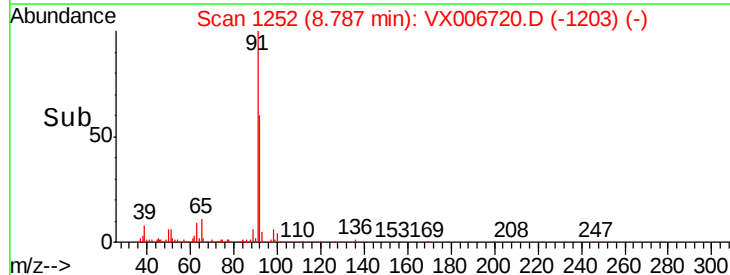
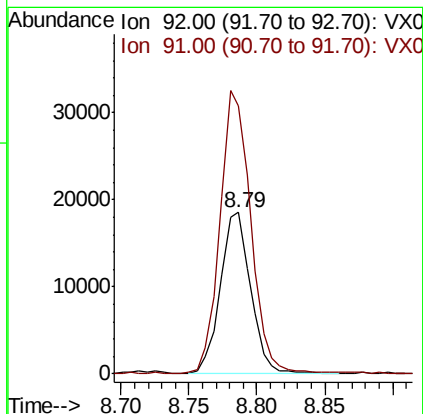
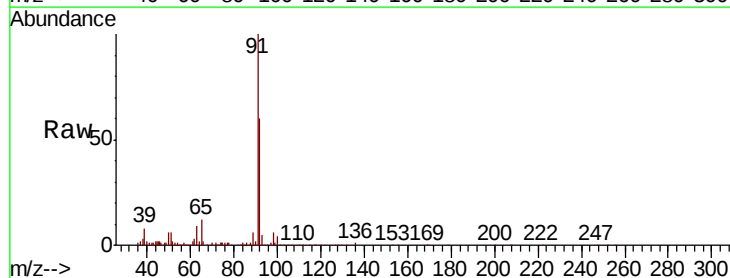
Acq: 21 Dec 2018 13:43

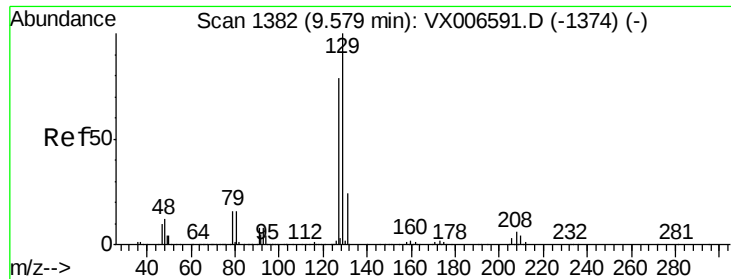
Tgt Ion: 92 Resp: 28959

Ion Ratio Lower Upper

92 100

91 176.9 137.6 206.4





#60

Dibromochloromethane

Concen: 2.334 ug/l

RT: 9.48 min Scan# 1366

Delta R.T. -0.10 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

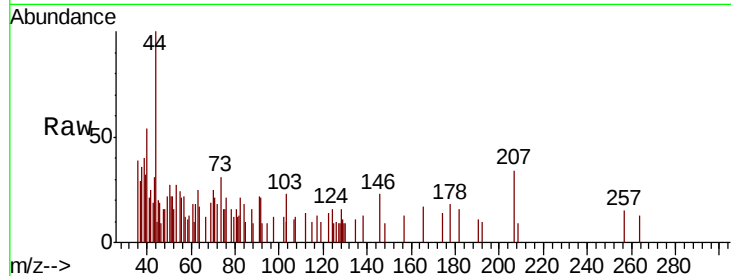
TP-GROUNDWATER-1-1

Tot Ion:129 Resp: 67

Ion Ratio Lower Upper

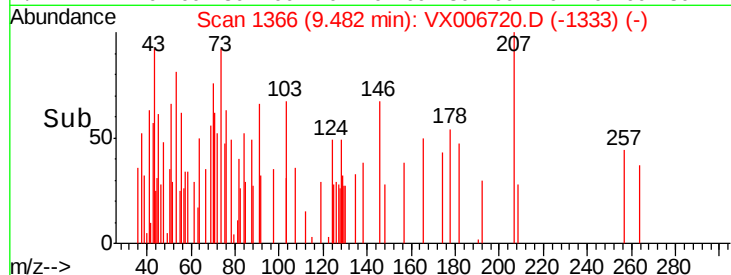
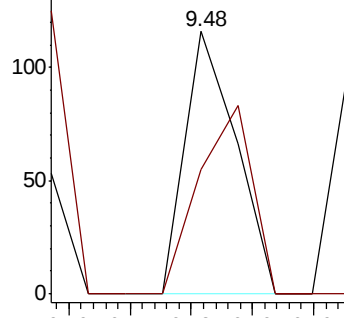
129 100

127 74.6 39.3 117.8

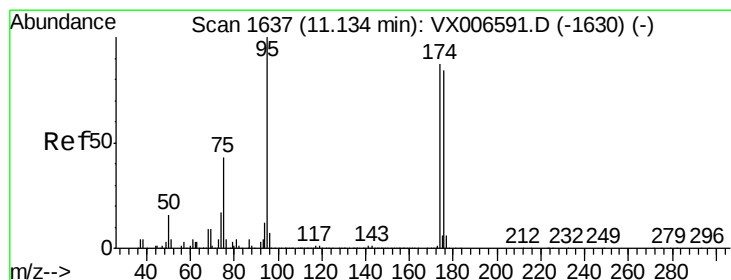


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 45.585 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

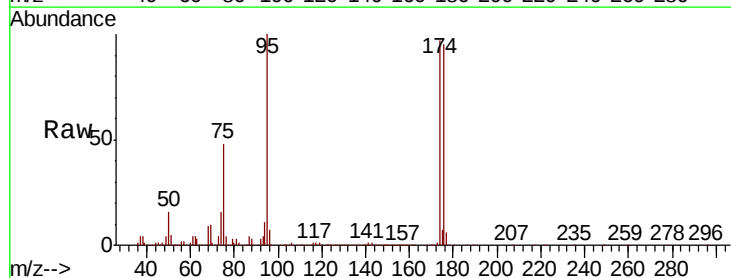
Tgt Ion: 95 Resp: 383245

Ion Ratio Lower Upper

95 100

174 90.4 0.0 182.2

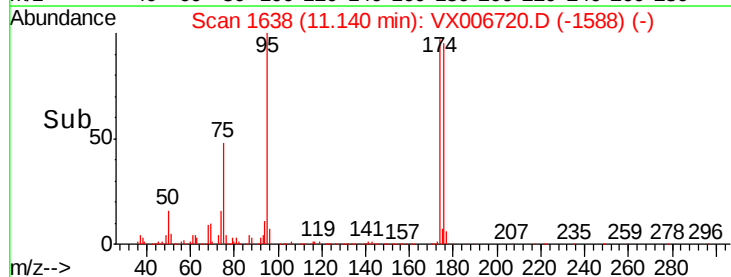
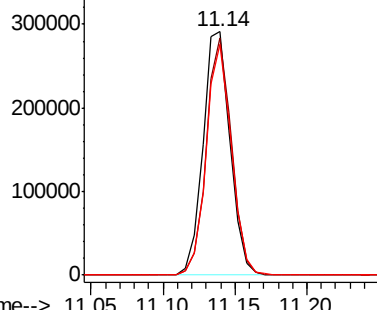
176 88.2 0.0 178.8



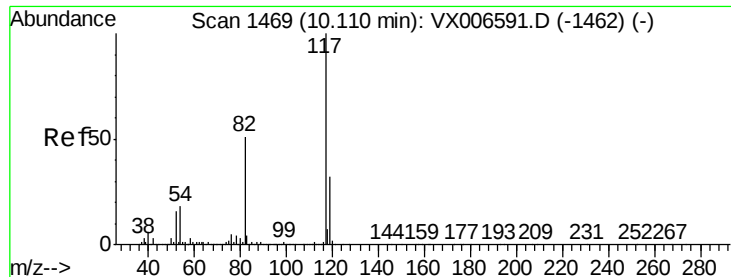
Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



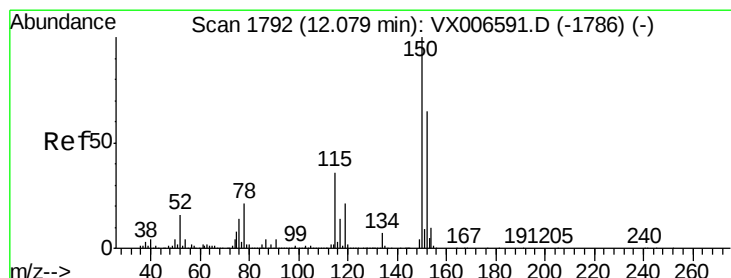
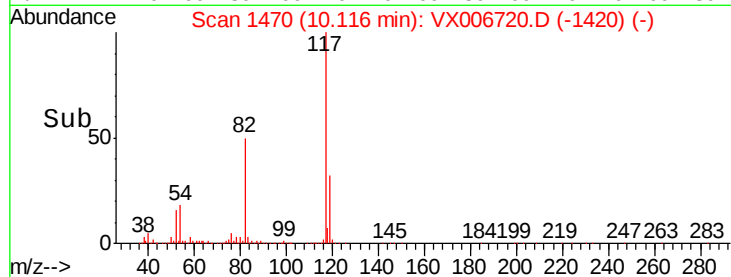
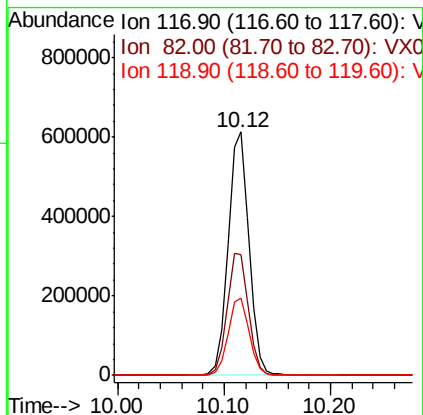
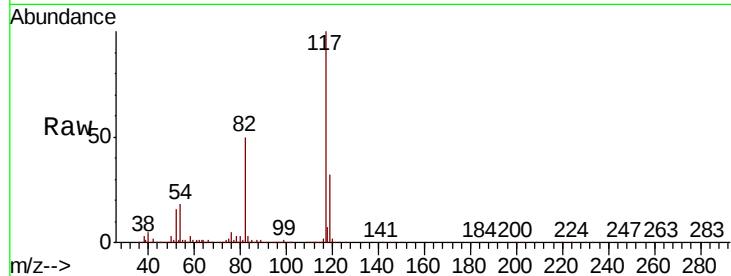
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006720.D
Acq: 21 Dec 2018 13:43

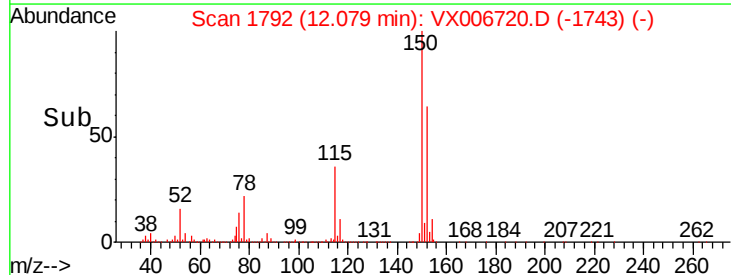
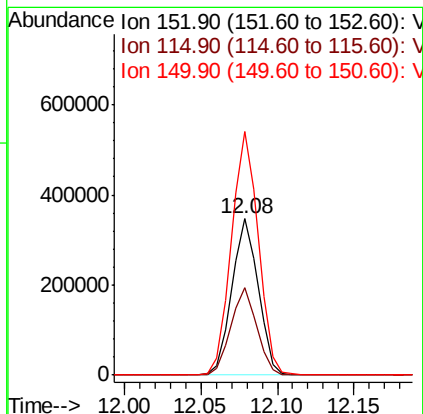
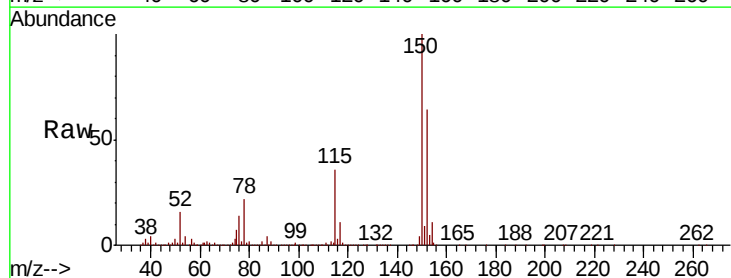
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

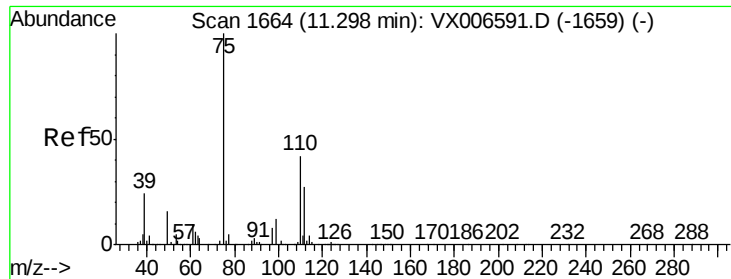
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.7	41.0	61.6
119	31.9	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006720.D
Acq: 21 Dec 2018 13:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	39.1	117.2
150	158.1	0.0	344.8





#76

1,2,3-Trichloropropane

Concen: 23.324 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

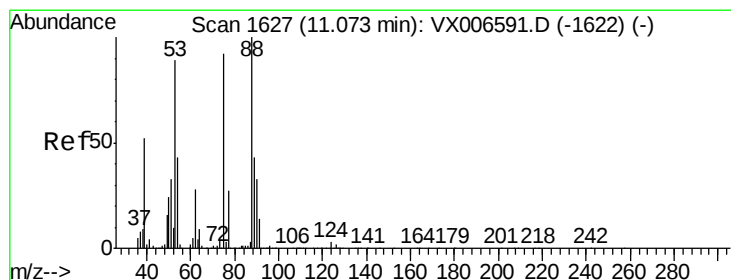
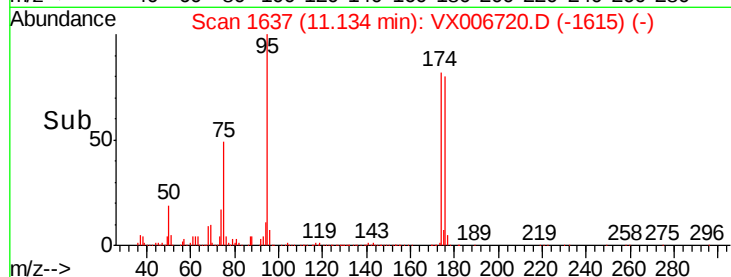
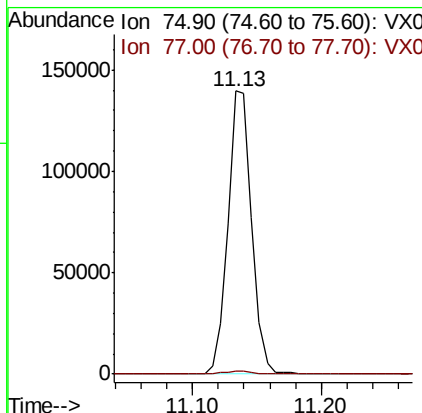
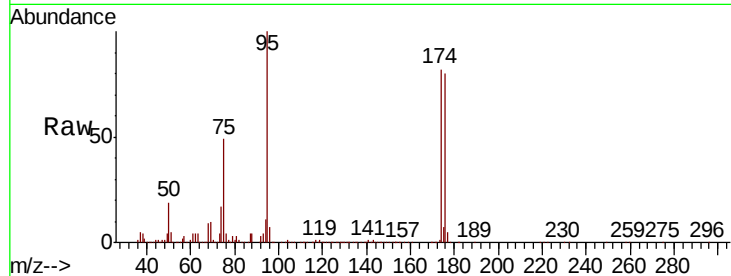
TP-GROUNDWATER-1-1

Tot Ion: 75 Resp: 179884

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.207 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

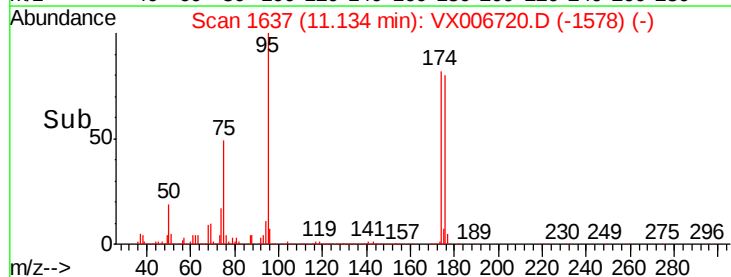
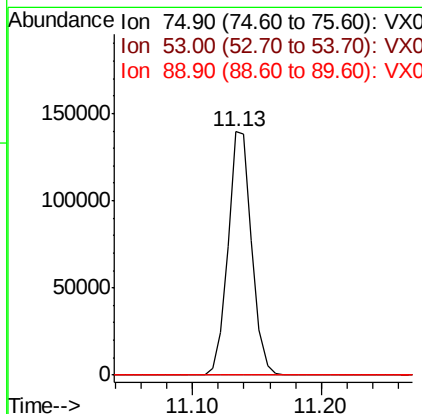
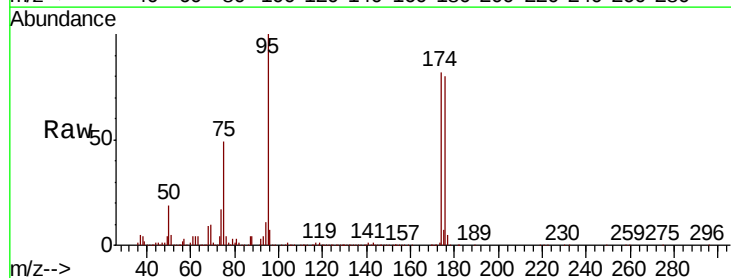
Tgt Ion: 75 Resp: 179884

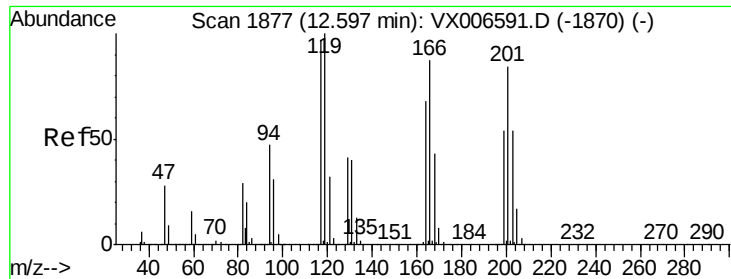
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.308 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

Instrument :

MSVOA_X

ClientSampleId :

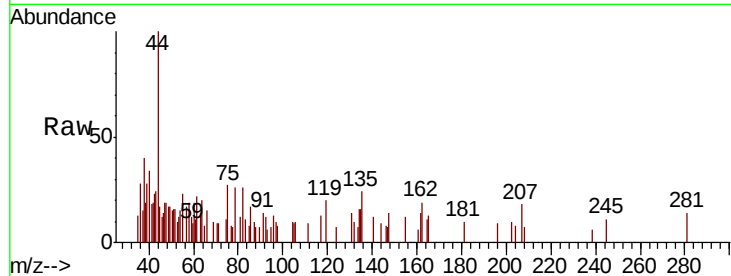
TP-GROUNDWATER-1-1

Tot Ion:117 Resp: 61

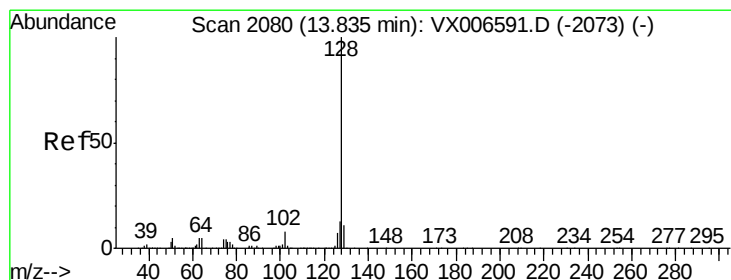
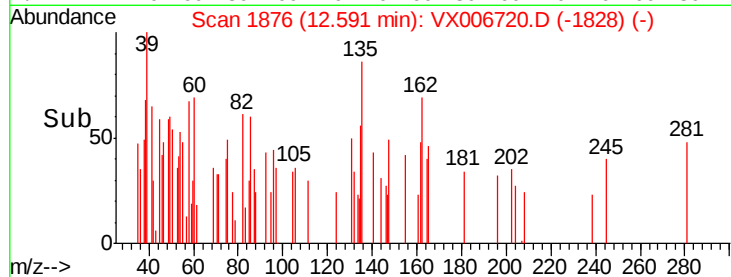
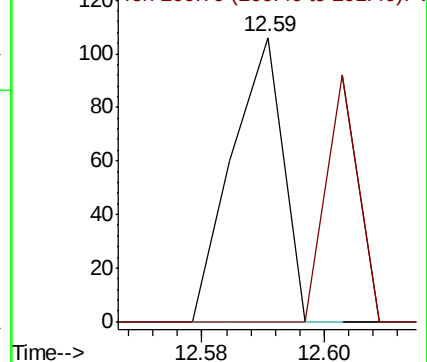
Ion Ratio Lower Upper

117 100

201 55.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.237 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006720.D

Acq: 21 Dec 2018 13:43

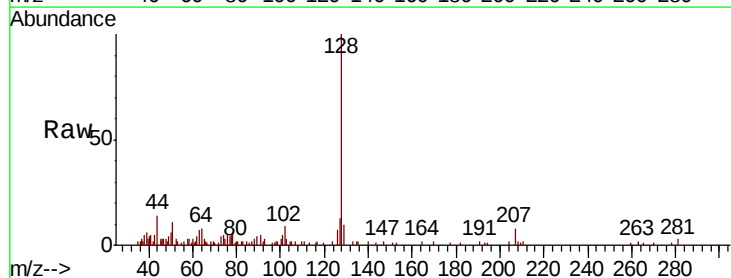
Tgt Ion:128 Resp: 7206

Ion Ratio Lower Upper

128 100

127 16.6 10.1 15.1#

129 12.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

