

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041620\
 Data File : VX015712.D
 Acq On : 16 Apr 2020 15:15
 Operator : JC/SP
 Sample : L2298-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATER

Quant Time: Apr 17 08:02:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1075514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1631044	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1571712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	878658	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	634922	41.86	ug/l	0.00
Spiked Amount			Recovery	=	83.72%	
35) Dibromofluoromethane	5.47	113	494873	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	8.70	98	1950284	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.12	95	815161	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	

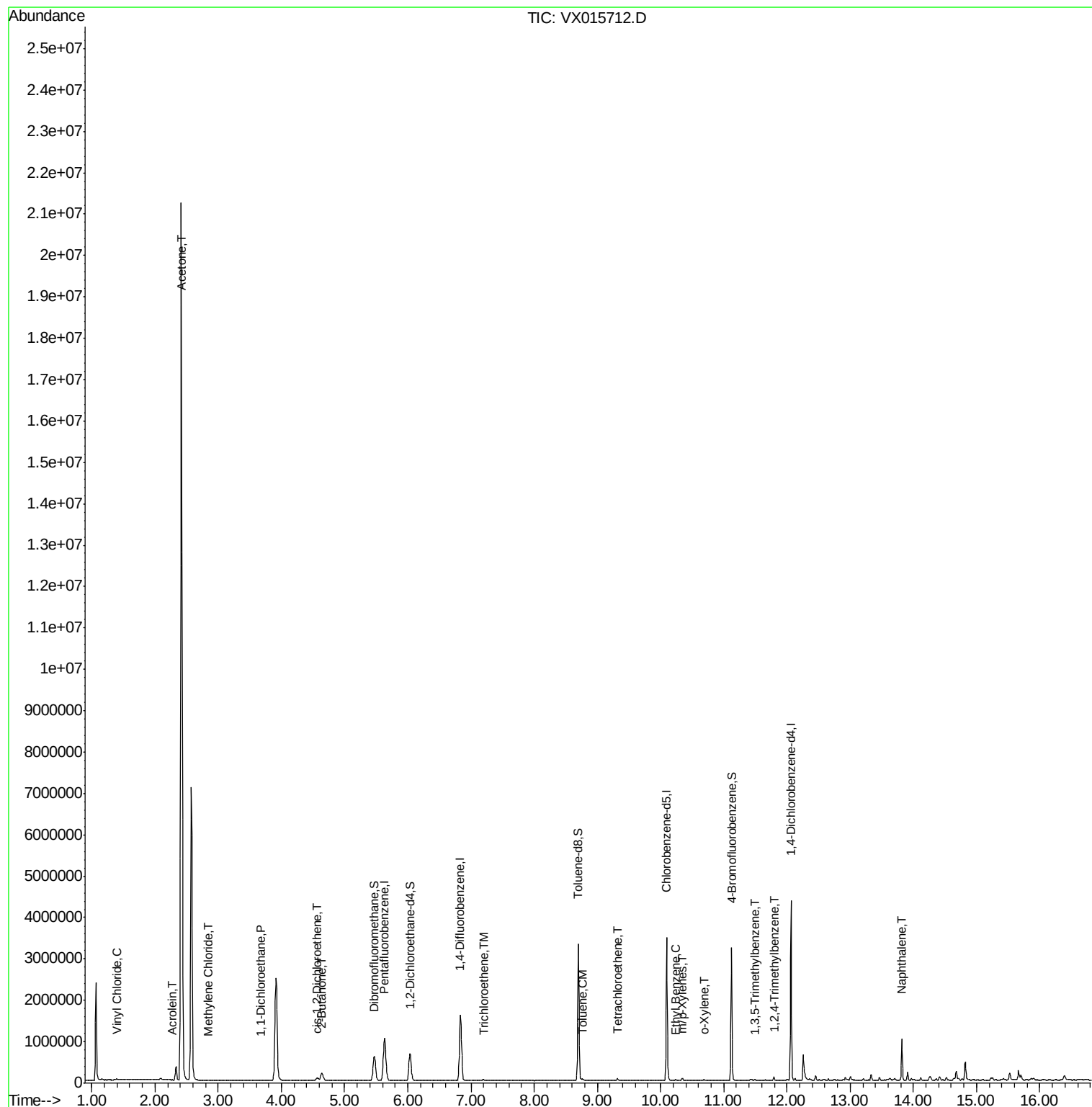
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	16641	1.502	ug/l #	88
13) Acrolein	2.28	56	6344	3.067	ug/l	85
16) Acetone	2.41	43	19265006	2956.147	ug/l #	58
20) Methylene Chloride	2.84	84	3973	0.326	ug/l #	70
24) 1,1-Dichloroethane	3.67	63	13193	0.596	ug/l	95
25) 2-Butanone	4.64	43	355384	33.909	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	46528	3.569	ug/l	87
44) Trichloroethene	7.20	130	13307	1.108	ug/l	94
52) Toluene	8.76	92	12088	0.445	ug/l	93
64) Tetrachloroethene	9.32	164	11207	0.945	ug/l	90
67) Ethyl Benzene	10.24	91	15938	0.287	ug/l	98
68) m/p-Xylenes	10.34	106	14119	0.682	ug/l	93
69) o-Xylene	10.68	106	8575	0.419	ug/l	100
80) 1,3,5-Trimethylbenzene	11.50	105	11575	0.235	ug/l	99
84) 1,2,4-Trimethylbenzene	11.79	105	37225	0.743	ug/l	98
95) Naphthalene	13.82	128	602943	9.288	ug/l	100

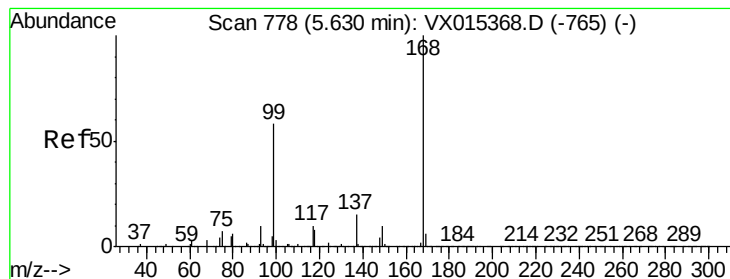
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

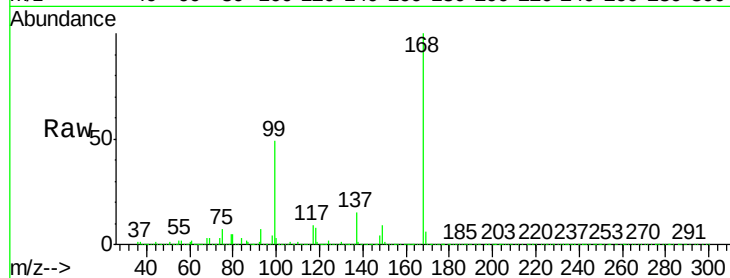
GROUNDWATER

Tot Ion:168 Resp: 1075514

Ion Ratio Lower Upper

168 100

99 48.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

200000

100000

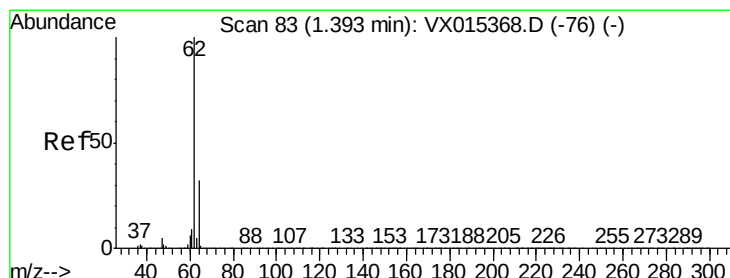
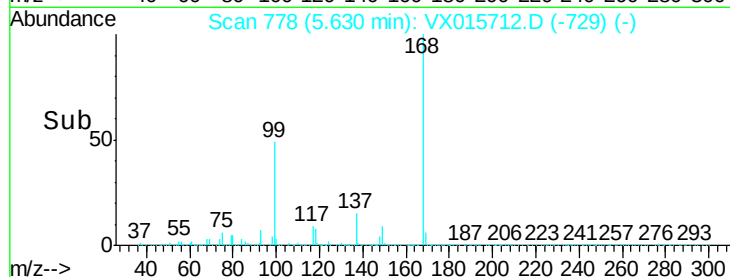
0

5.50

5.60

5.70

Time-->



#4

Vinyl Chloride

Concen: 1.502 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015712.D

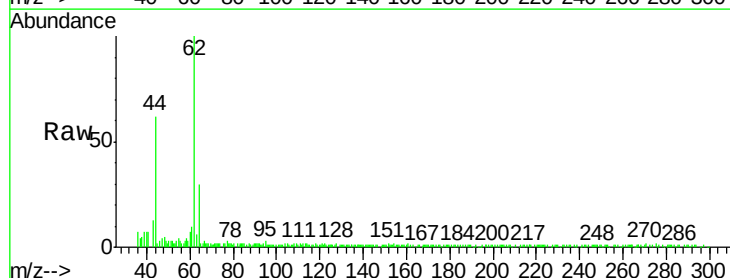
Acq: 16 Apr 2020 15:15

Tgt Ion: 62 Resp: 16641

Ion Ratio Lower Upper

62 100

64 25.6 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

20000

15000

10000

5000

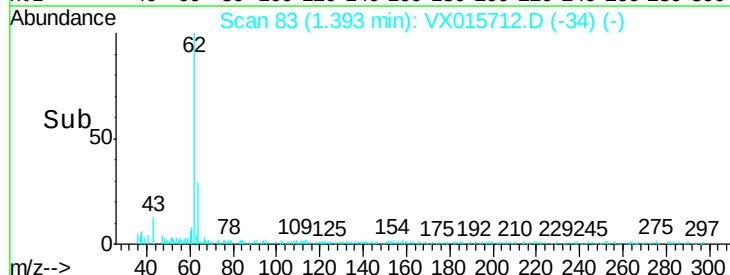
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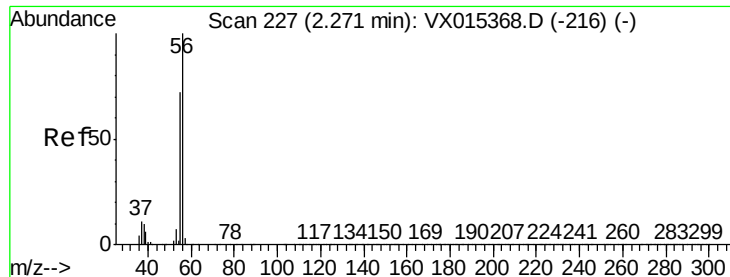
1.35

1.40

1.45

Time-->

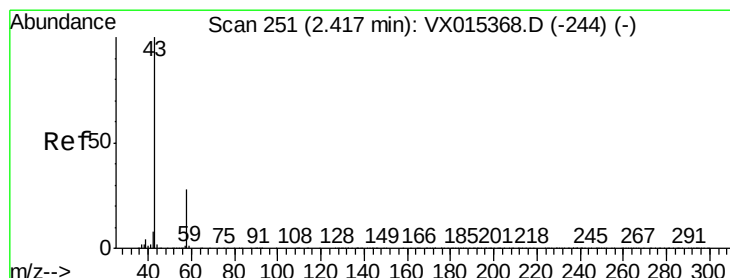
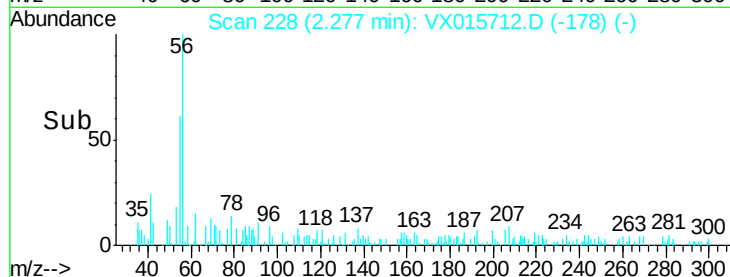
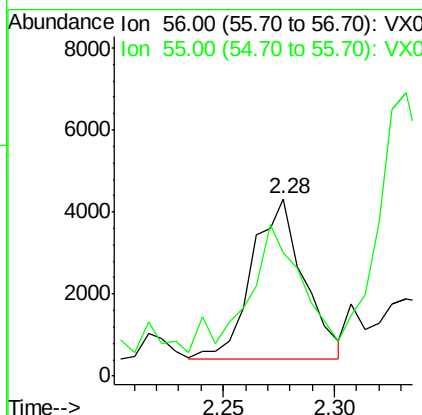
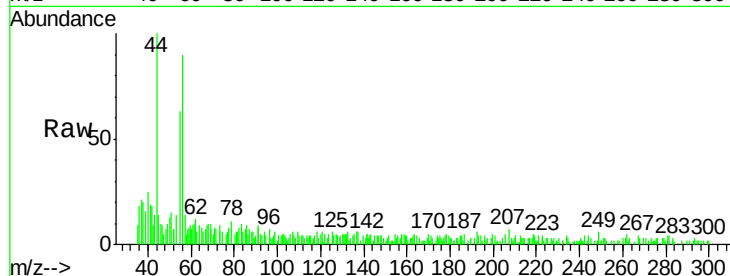




#13
Acrolein
Concen: 3.067 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

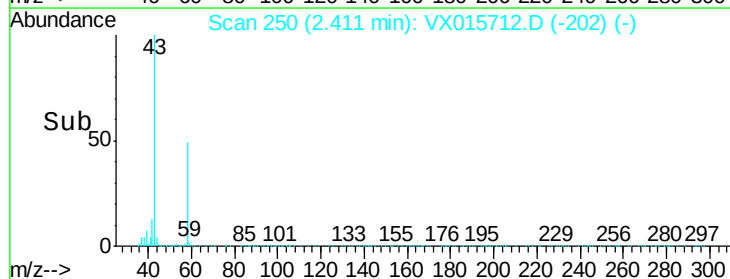
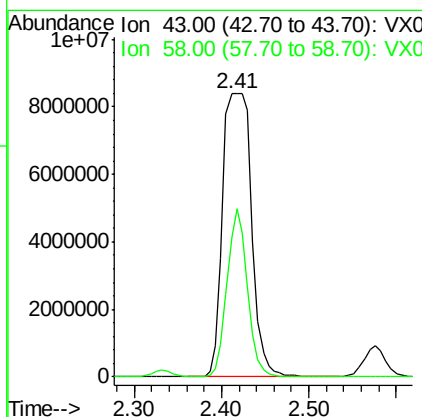
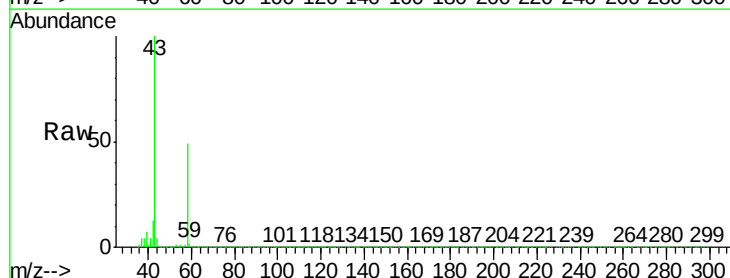
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

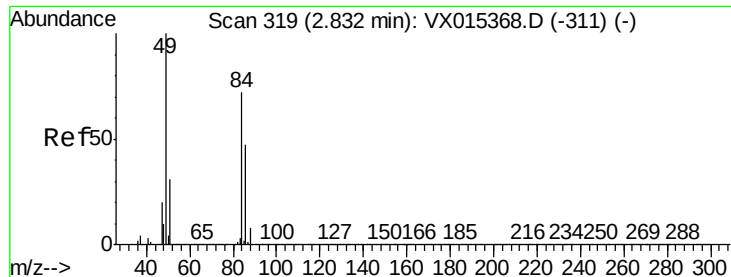
Tot Ion: 56 Resp: 6344
Ion Ratio Lower Upper
56 100
55 84.0 57.0 85.4



#16
Acetone
Concen: 2956.147 ug/l
RT: 2.41 min Scan# 250
Delta R.T. -0.01 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

Tgt Ion: 43 Resp: 19265006
Ion Ratio Lower Upper
43 100
58 49.4 22.1 33.1#

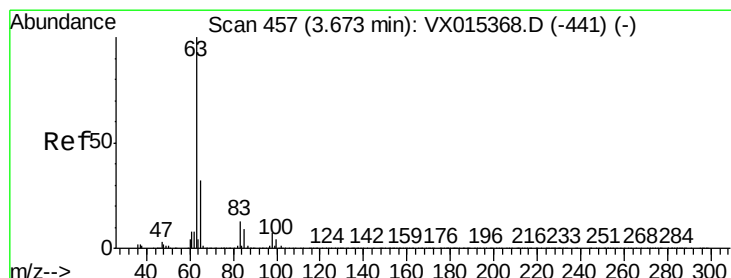
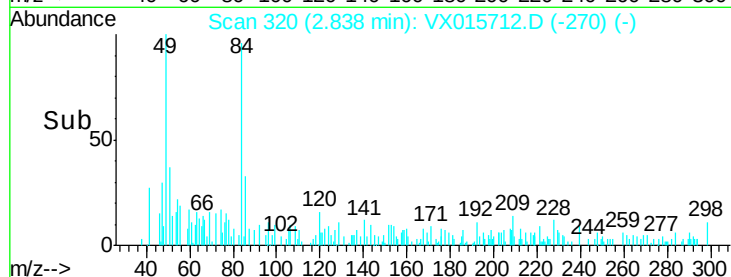
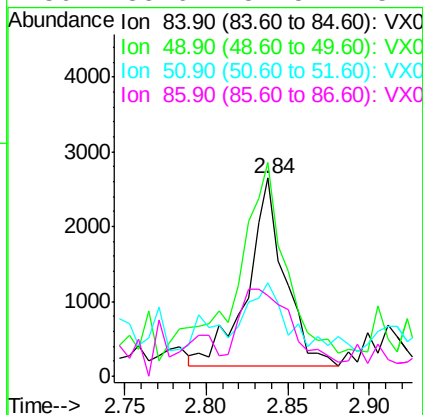
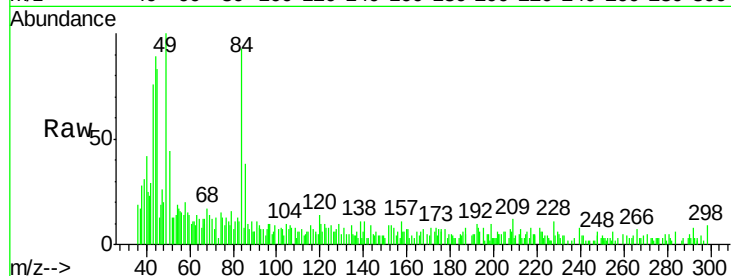




#20
Methylene Chloride
Concen: 0.326 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

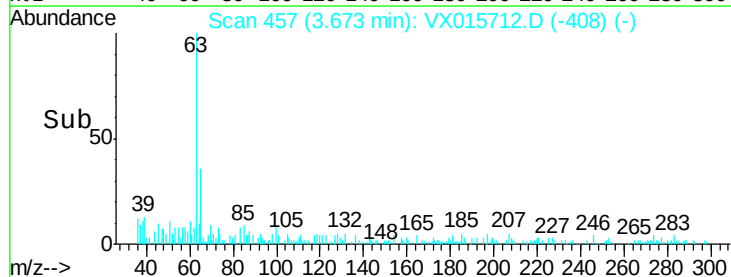
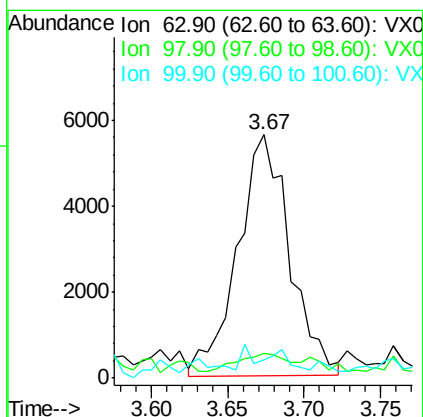
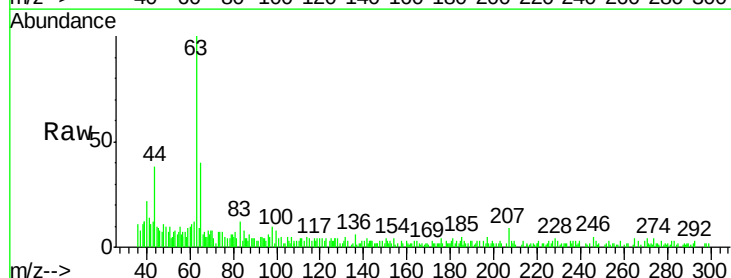
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

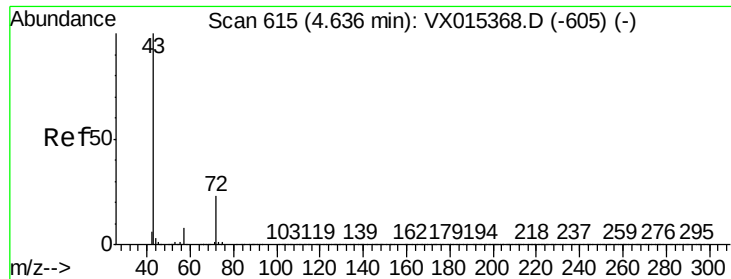
Tot Ion: 84 Resp: 3973
Ion Ratio Lower Upper
84 100
49 101.7 111.3 166.9#
51 33.9 34.0 51.0#
86 35.6 52.5 78.7#



#24
1,1-Dichloroethane
Concen: 0.596 ug/l
RT: 3.67 min Scan# 457
Delta R.T. 0.00 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

Tgt Ion: 63 Resp: 13193
Ion Ratio Lower Upper
63 100
98 4.3 3.3 9.8
100 5.2 2.1 6.5





#25

2-Butanone

Concen: 33.909 ug/l

RT: 4.64 min Scan# 615

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

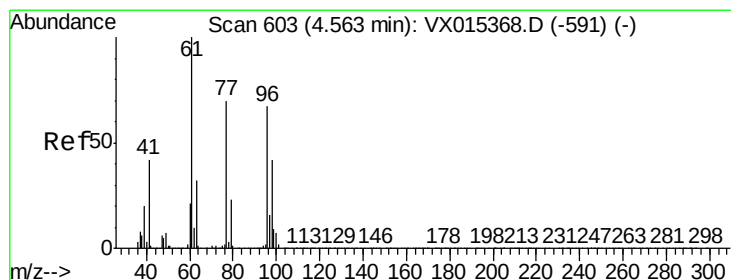
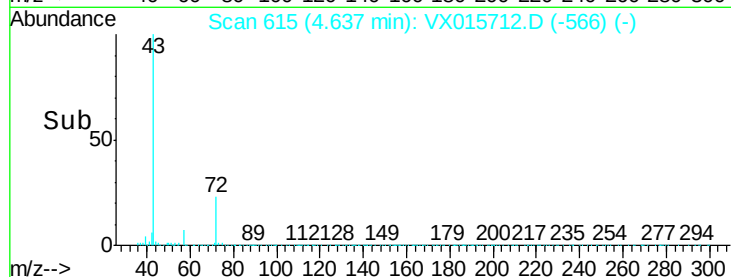
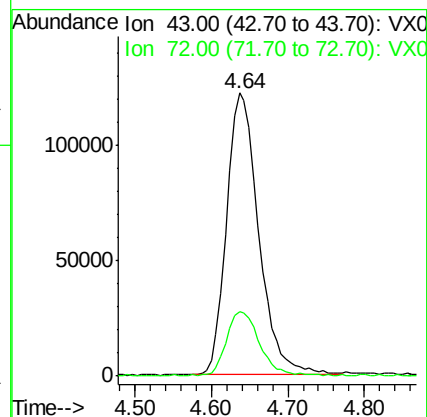
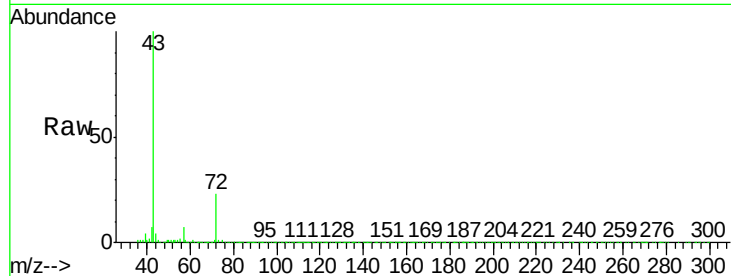
GROUNDWATER

Tot Ion: 43 Resp: 355384

Ion Ratio Lower Upper

43 100

72 22.5 19.0 28.4



#27

cis-1,2-Dichloroethene

Concen: 3.569 ug/l

RT: 4.56 min Scan# 603

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

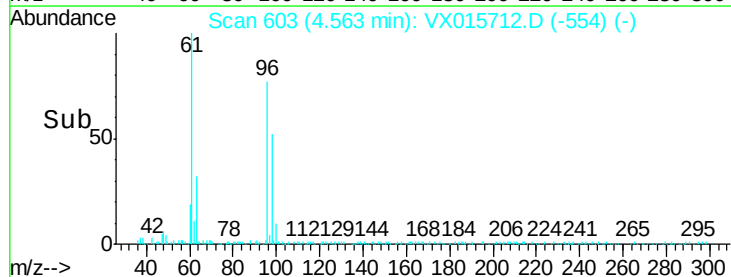
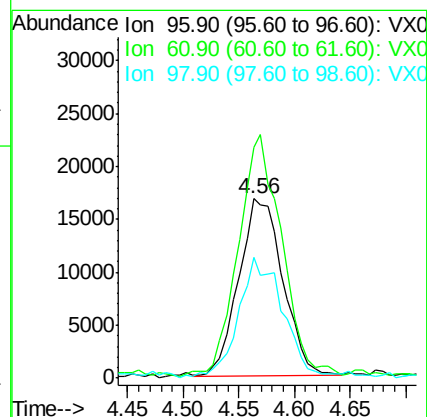
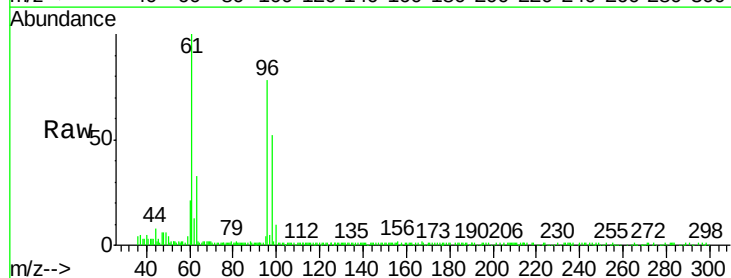
Tgt Ion: 96 Resp: 46528

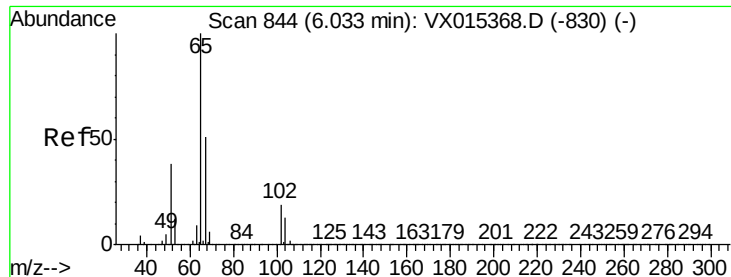
Ion Ratio Lower Upper

96 100

61 132.5 0.0 308.4

98 68.6 0.0 129.2

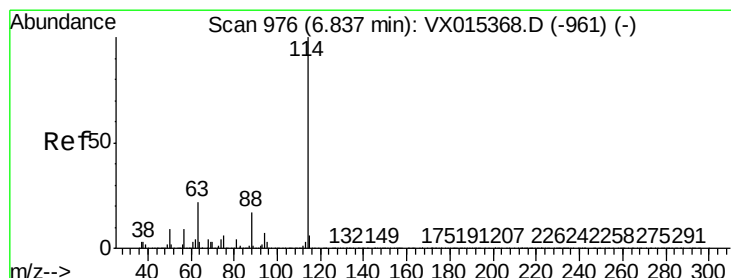
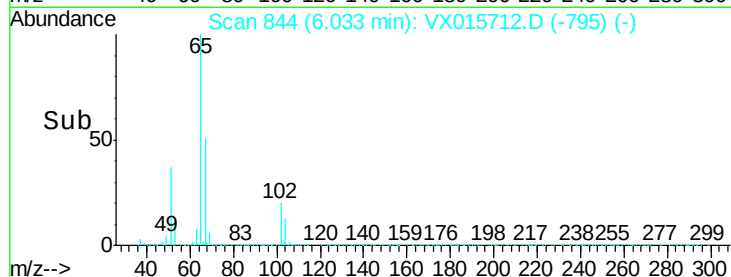
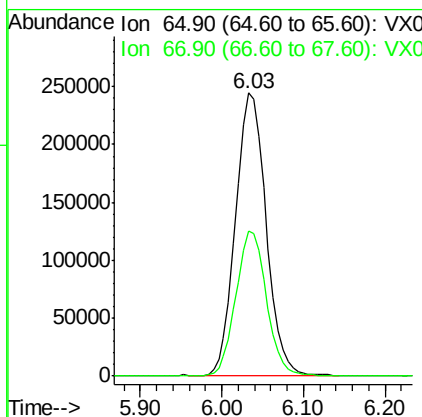
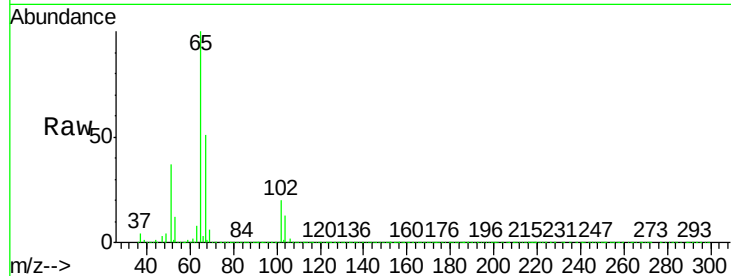




#33
 1,2-Dichloroethane-d4
 Concen: 41.857 ug/l
 RT: 6.03 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VX015712.D
 Acq: 16 Apr 2020 15:15

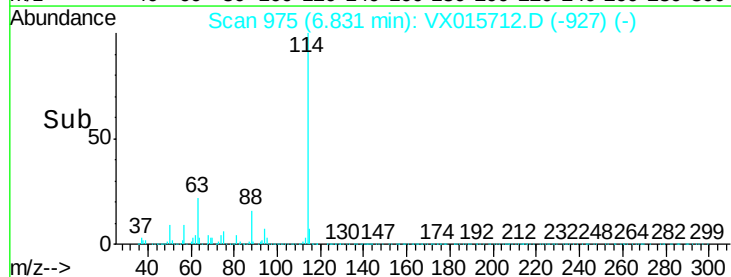
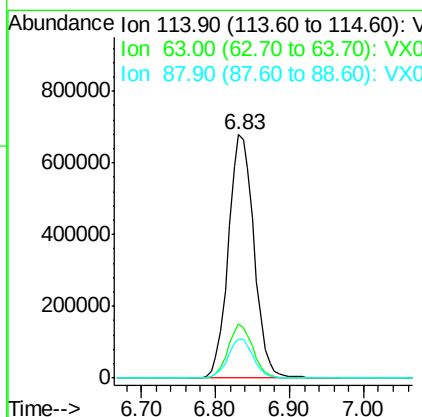
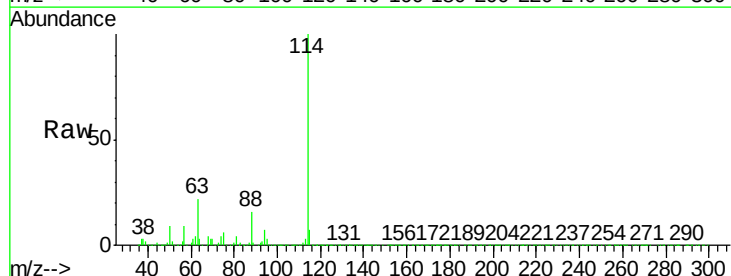
Instrument :
 MSVOA_X
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 GROUNDWATER

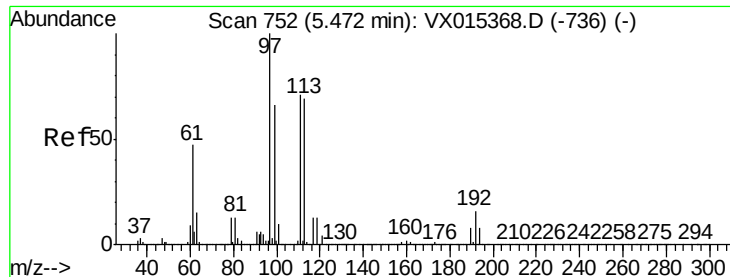
Tot Ion: 65 Resp: 634922
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 975
 Delta R.T. -0.01 min
 Lab File: VX015712.D
 Acq: 16 Apr 2020 15:15

Tgt Ion: 114 Resp: 1631044
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 44.2
 88 15.8 0.0 33.8

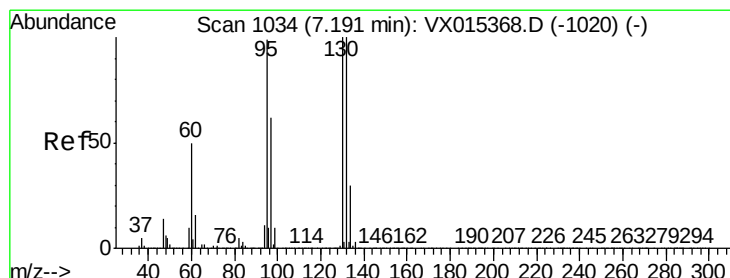
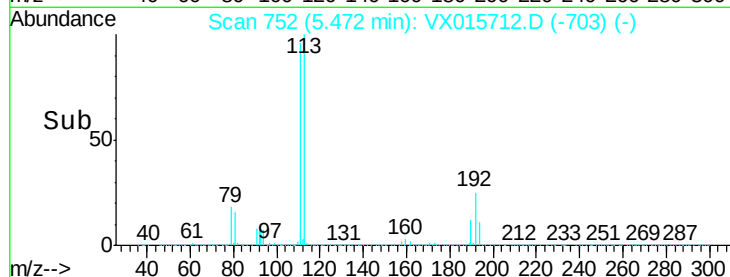
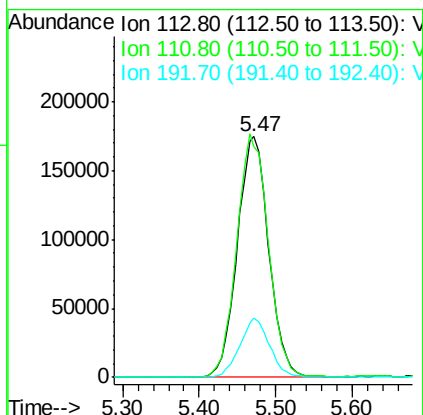
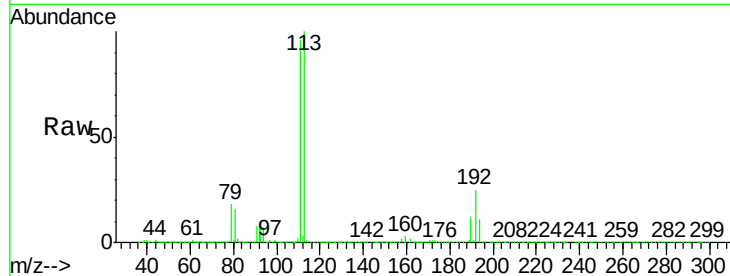




#35
Dibromofluoromethane
Concen: 47.465 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

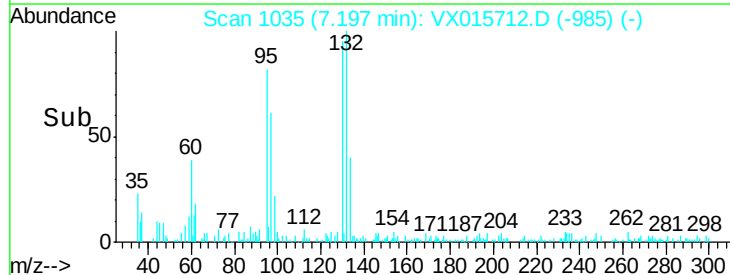
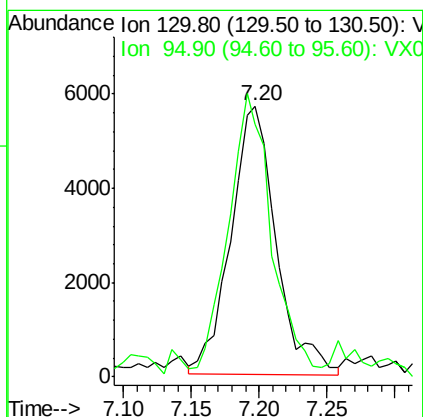
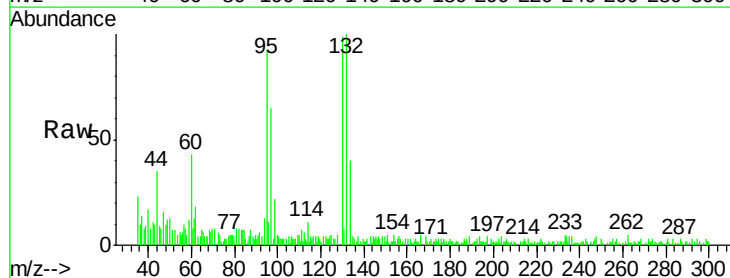
Instrument :
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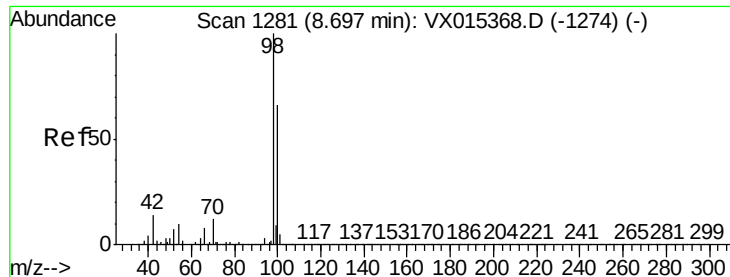
Tot Ion:113 Resp: 494873
Ion Ratio Lower Upper
113 100
111 102.0 81.5 122.3
192 23.3 17.8 26.6



#44
Trichloroethene
Concen: 1.108 ug/l
RT: 7.20 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

Tgt Ion:130 Resp: 13307
Ion Ratio Lower Upper
130 100
95 93.9 0.0 199.0





#50

Toluene-d8

Concen: 50.807 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

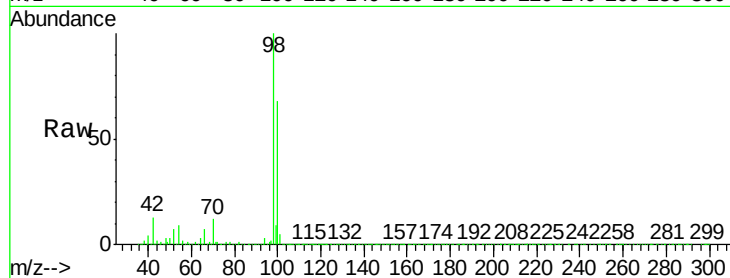
GROUNDWATER

Tot Ion: 98 Resp: 1950284

Ion Ratio Lower Upper

98 100

100 67.2 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

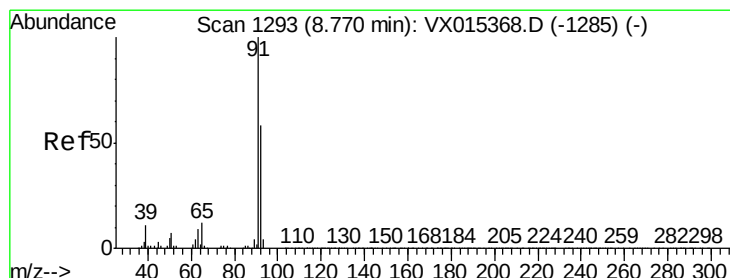
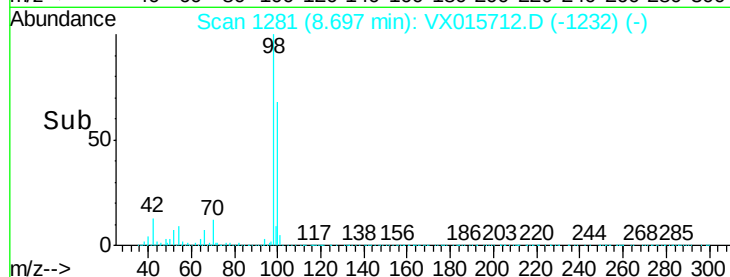
8.70

1000000

500000

0

Time-->



#52

Toluene

Concen: 0.445 ug/l

RT: 8.76 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX015712.D

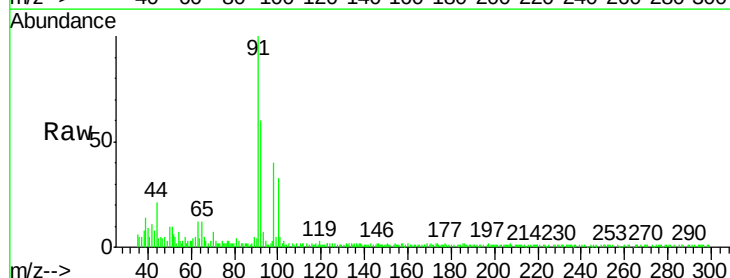
Acq: 16 Apr 2020 15:15

Tgt Ion: 92 Resp: 12088

Ion Ratio Lower Upper

92 100

91 180.8 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

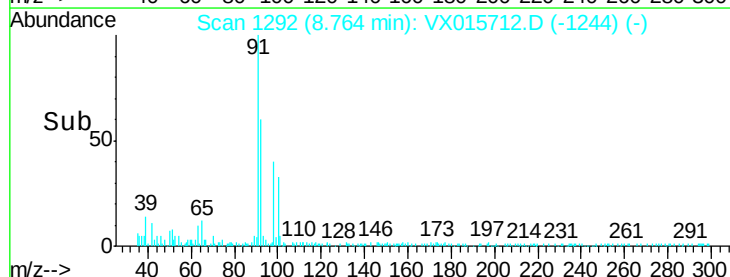
15000

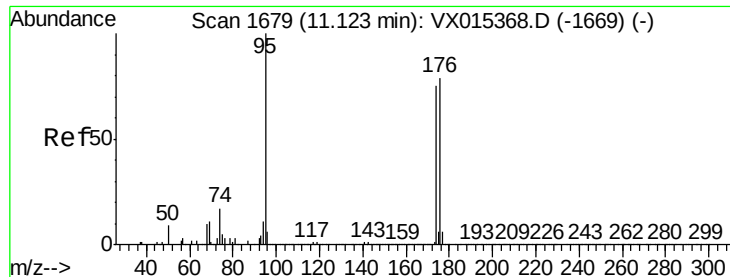
10000

5000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 52.253 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

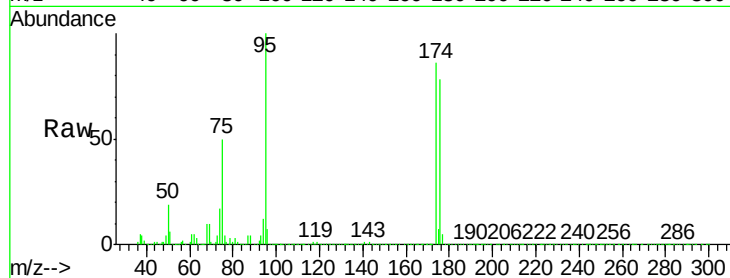
Tot Ion: 95 Resp: 815161

Ion Ratio Lower Upper

95 100

174 87.9 0.0 158.6

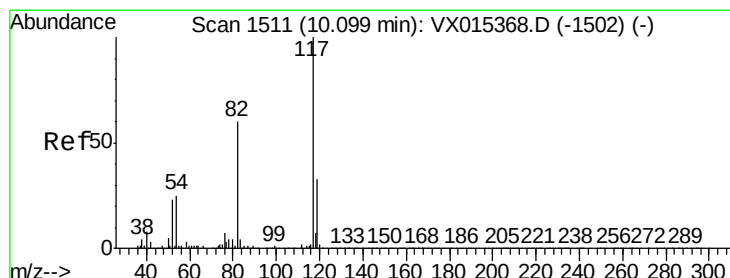
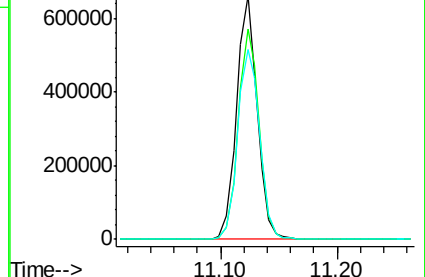
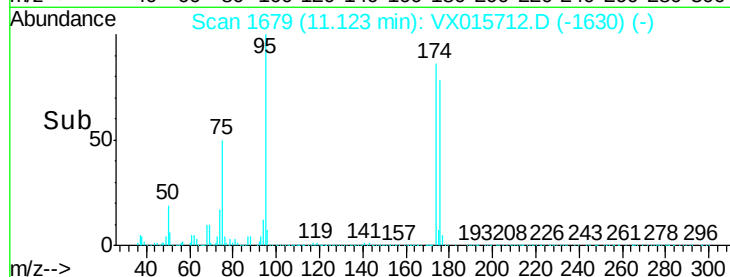
176 83.1 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX015712.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015712.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015712.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

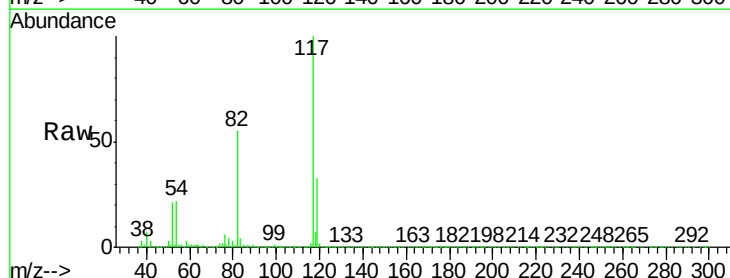
Tgt Ion: 117 Resp: 1571712

Ion Ratio Lower Upper

117 100

82 55.4 47.8 71.8

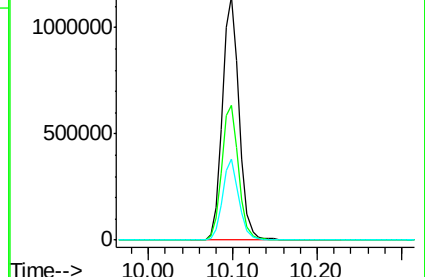
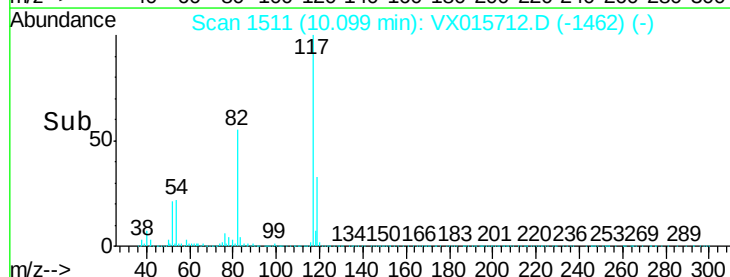
119 33.2 26.8 40.2

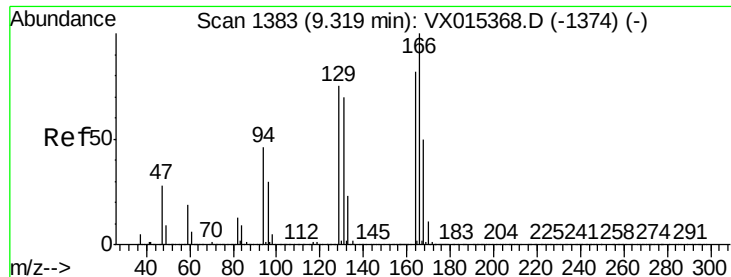


Abundance Ion 116.90 (116.60 to 117.60): VX015712.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015712.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015712.D (-1462) (-)





#64

Tetrachloroethene

Concen: 0.945 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

Tot Ion:164 Resp: 11207

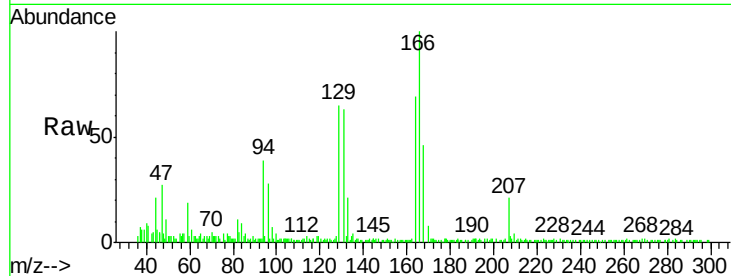
Ion Ratio Lower Upper

164 100

166 143.7 97.8 146.6

129 92.8 73.0 109.4

131 91.7 68.6 103.0

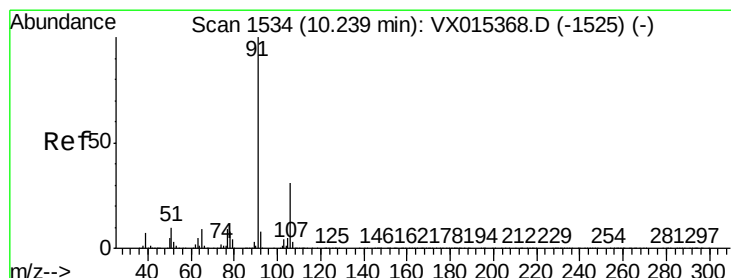
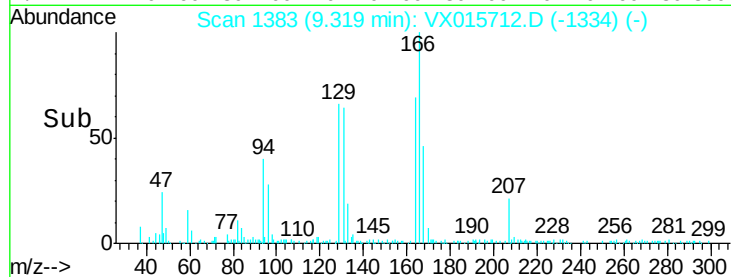
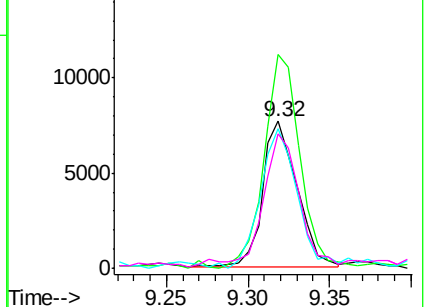


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 0.287 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VX015712.D

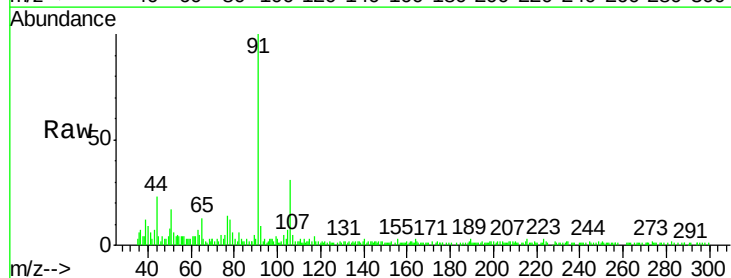
Acq: 16 Apr 2020 15:15

Tgt Ion: 91 Resp: 15938

Ion Ratio Lower Upper

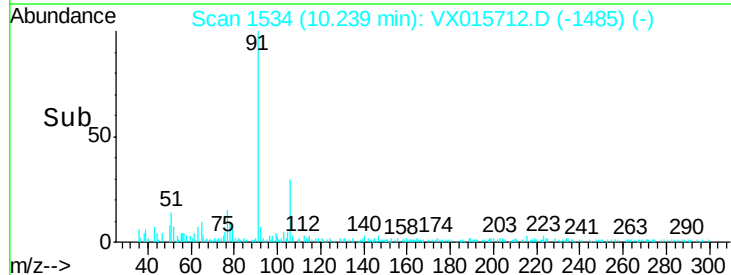
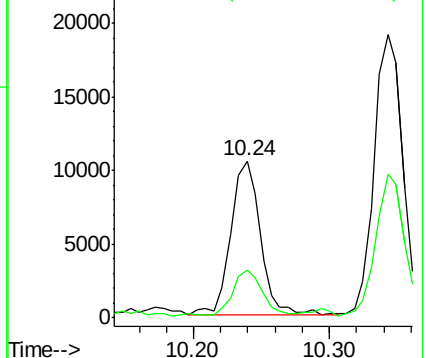
91 100

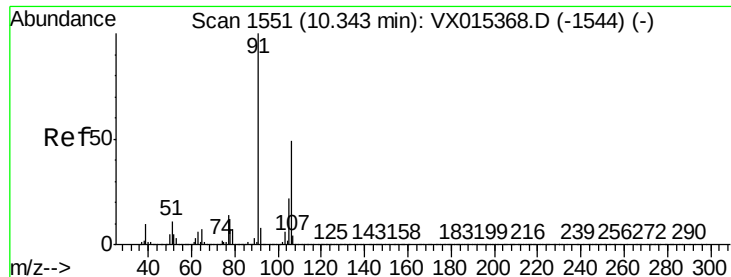
106 29.9 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

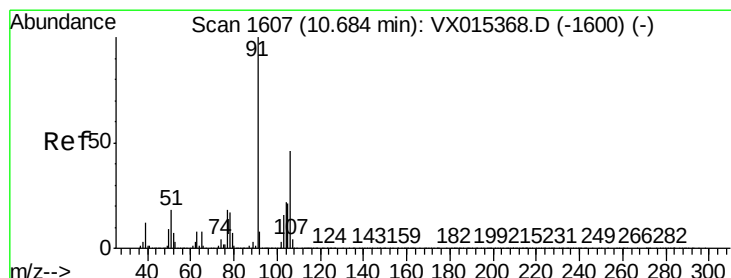
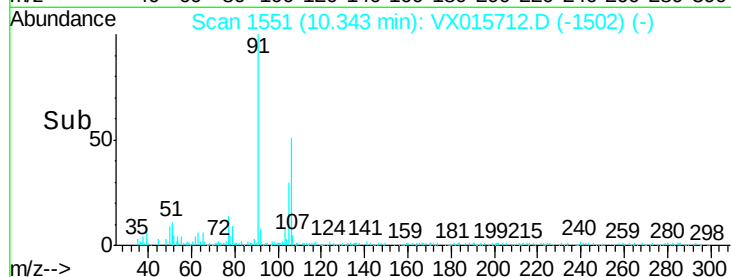
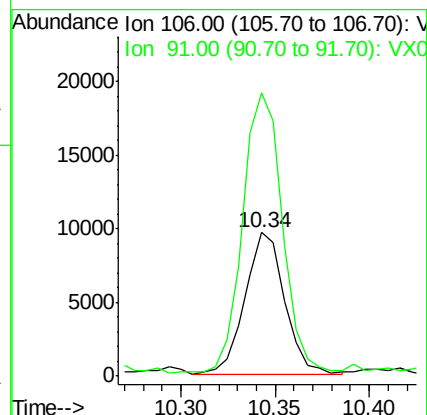
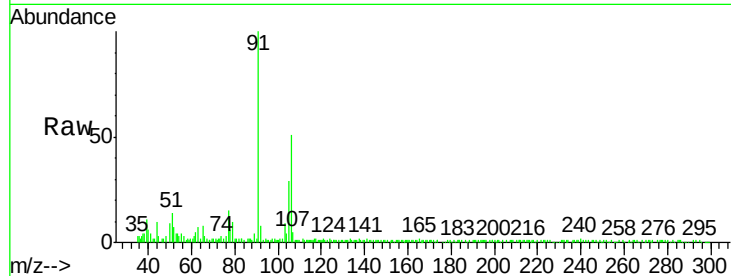




#68
m/p-Xylenes
Concen: 0.682 ug/l
RT: 10.34 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

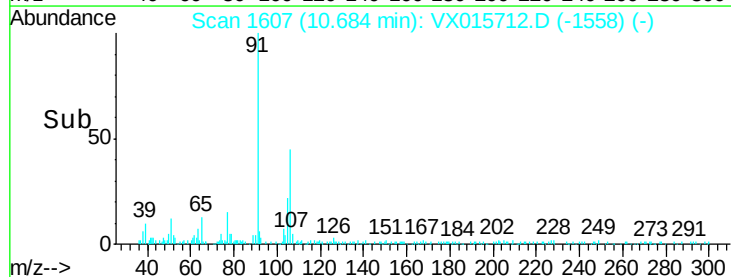
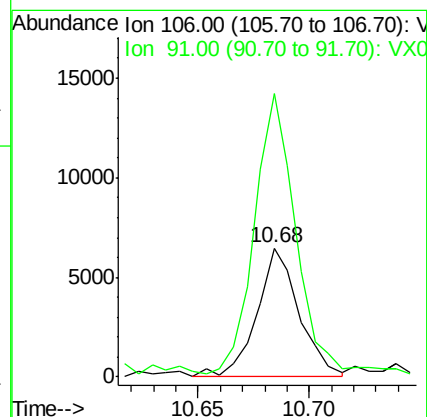
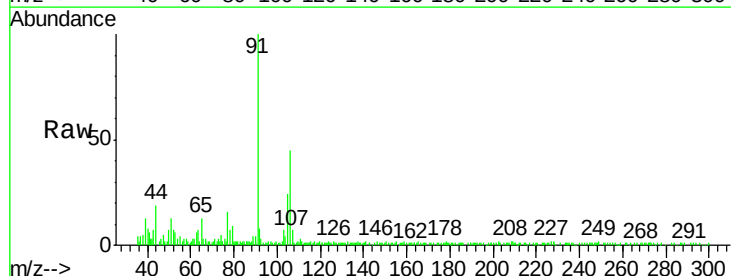
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

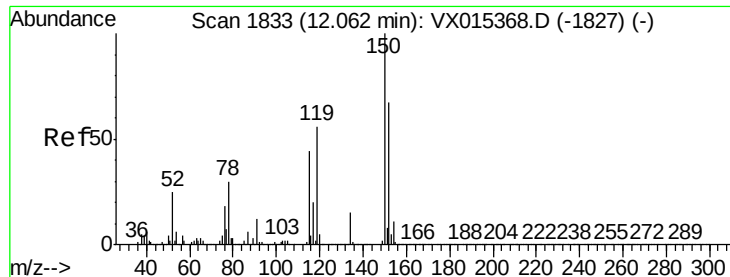
Tot Ion:106 Resp: 14119
Ion Ratio Lower Upper
106 100
91 193.5 163.4 245.0



#69
o-Xylene
Concen: 0.419 ug/l
RT: 10.68 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VX015712.D
Acq: 16 Apr 2020 15:15

Tgt Ion:106 Resp: 8575
Ion Ratio Lower Upper
106 100
91 214.3 107.1 321.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampled :

GROUNDWATER

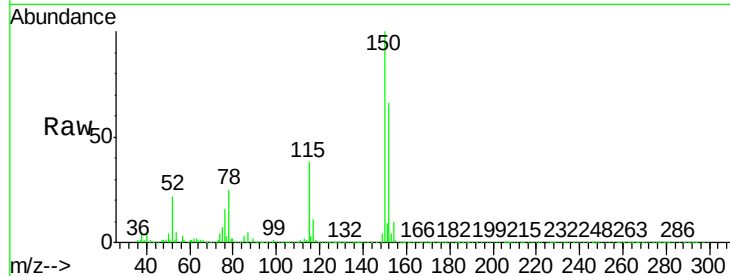
Tot Ion:152 Resp: 878658

Ion Ratio Lower Upper

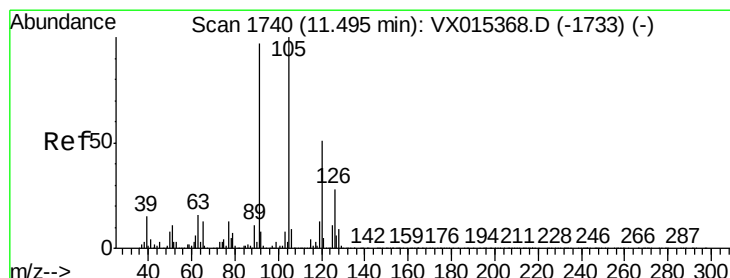
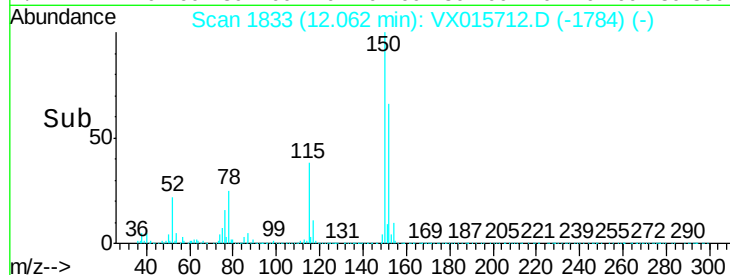
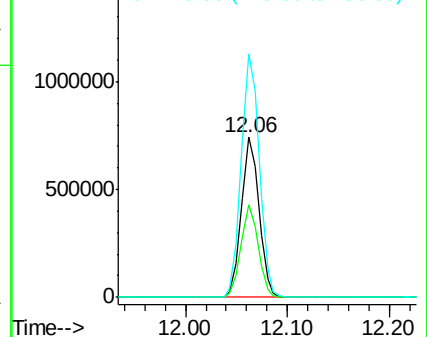
152 100

115 56.8 39.0 116.9

150 155.7 0.0 340.8



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



#80

1,3,5-Trimethylbenzene

Concen: 0.235 ug/l

RT: 11.50 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VX015712.D

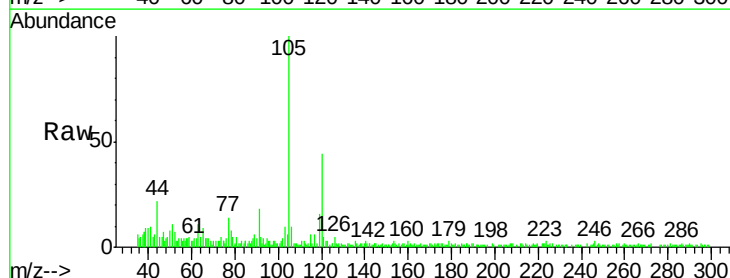
Acq: 16 Apr 2020 15:15

Tgt Ion:105 Resp: 11575

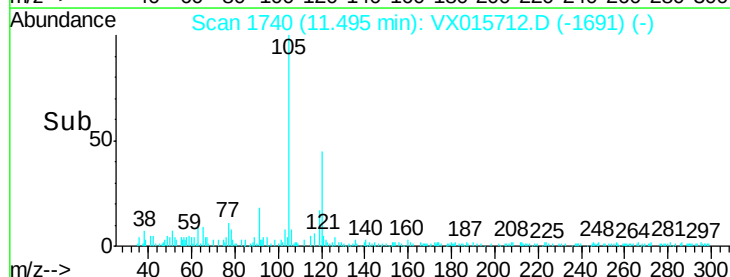
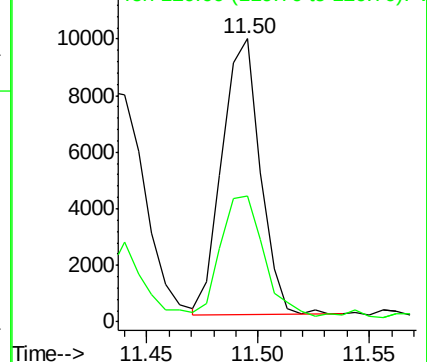
Ion Ratio Lower Upper

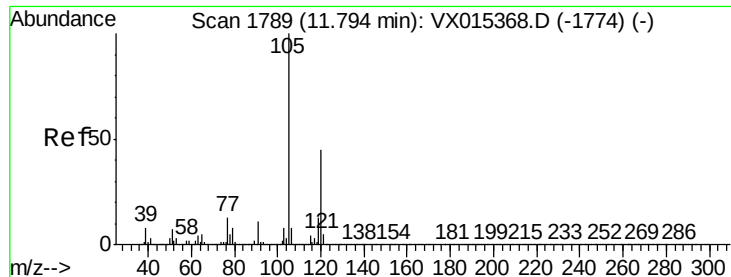
105 100

120 49.0 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 0.743 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

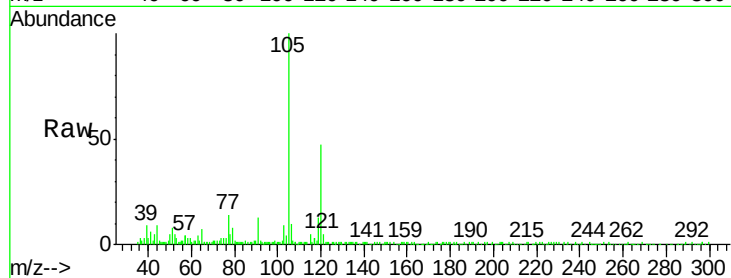
GROUNDWATER

Tot Ion:105 Resp: 37225

Ion Ratio Lower Upper

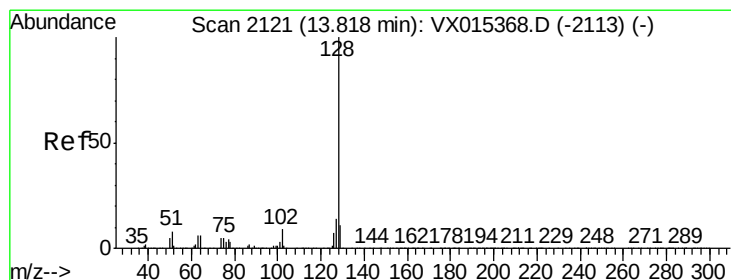
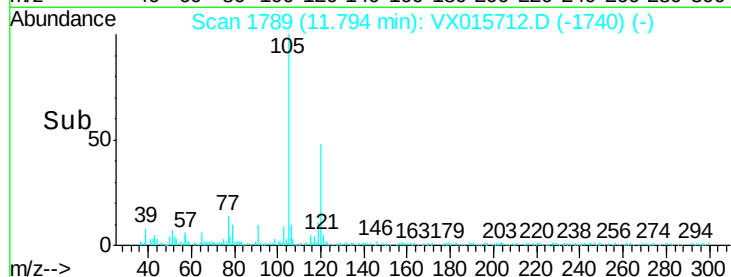
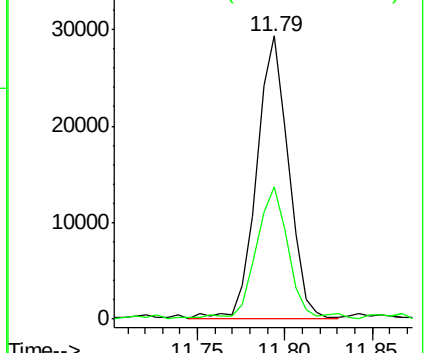
105 100

120 46.8 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 9.288 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015712.D

Acq: 16 Apr 2020 15:15

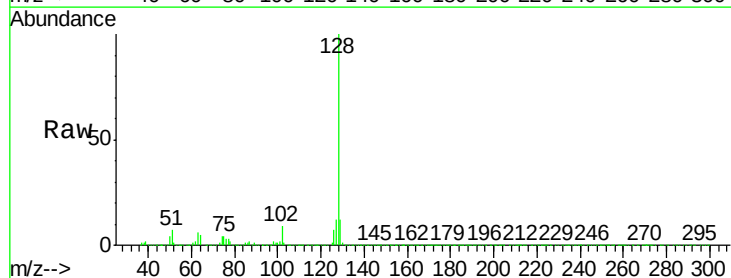
Tgt Ion:128 Resp: 602943

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 11.1 8.8 13.2



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

