

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019507.D
 Acq On : 20 Nov 2020 19:46
 Operator : JC/MD
 Sample : L4833-01 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATER

Quant Time: Nov 21 03:51:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	286671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	467233	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	401197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	170598	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	174371	46.91	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.82%
35) Dibromofluoromethane	5.46	113	138209	47.12	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.24%
50) Toluene-d8	8.70	98	550031	48.26	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.52%
62) 4-Bromofluorobenzene	11.12	95	183452	44.74	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.48%

Target Compounds

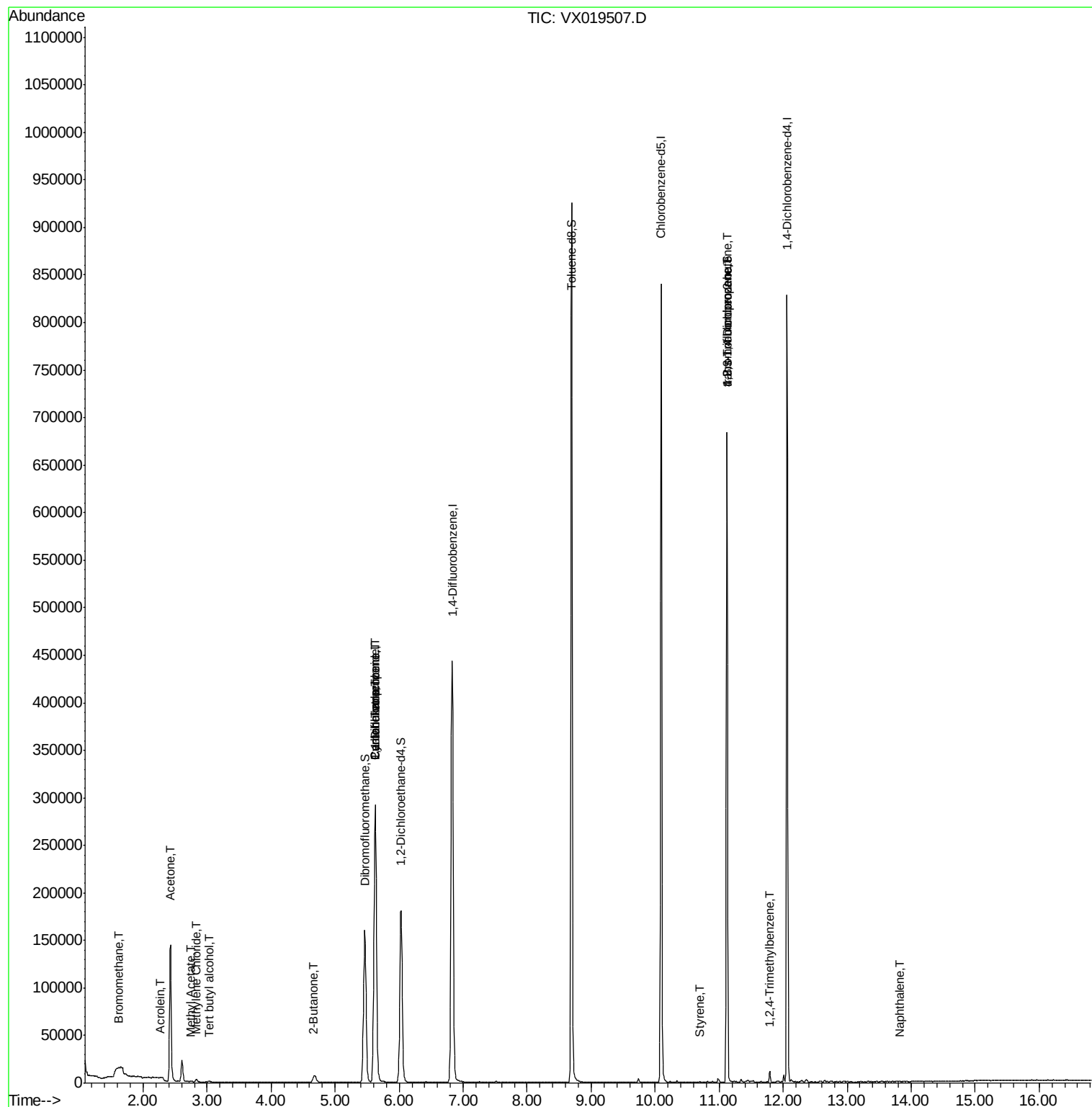
					Qvalue	
5) Bromomethane	1.62	94	512	0.393	ug/l #	60
6) Chloroethane	1.68	64	185	Below Cal	#	55
11) Tert butyl alcohol	3.04	59	871	1.238	ug/l #	73
13) Acrolein	2.26	56	286	0.605	ug/l #	15
16) Acetone	2.43	43	152528	106.113	ug/l	100
18) Methyl Acetate	2.75	43	451	0.761	ug/l #	79
20) Methylene Chloride	2.82	84	1226	0.341	ug/l #	87
25) 2-Butanone	4.65	43	986	0.457	ug/l #	84
31) Cyclohexane	5.62	56	5447	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	21459	4.899	ug/l #	49
38) Carbon Tetrachloride	5.62	117	28378	6.693	ug/l #	17
70) Styrene	10.70	104	97	1.656	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	89082	23.927	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	89082	63.388	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	4517	0.451	ug/l	99
95) Naphthalene	13.82	128	397	2.208	ug/l #	89

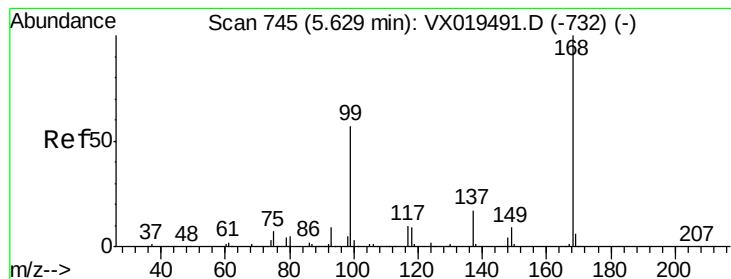
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

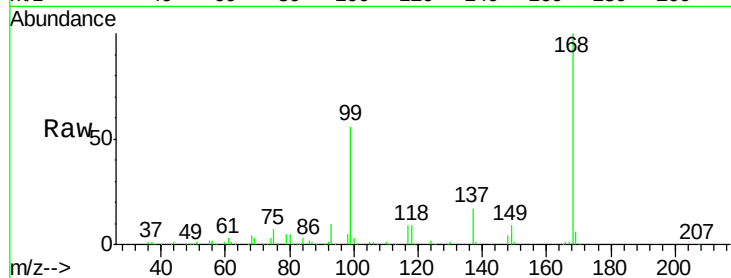
GROUNDWATER

Tot Ion:168 Resp: 286671

Ion Ratio Lower Upper

168 100

99 55.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

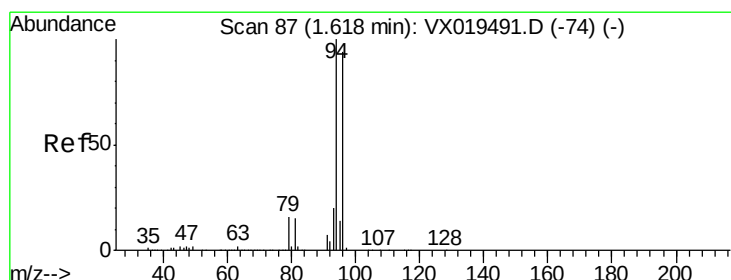
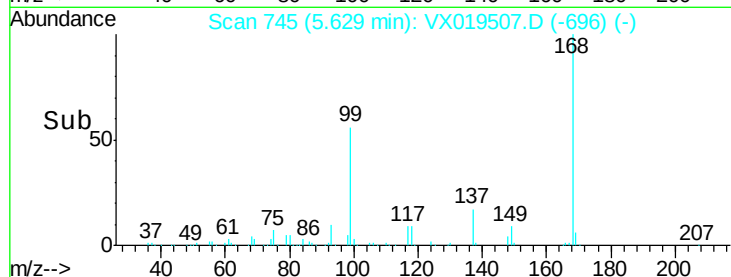
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.393 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019507.D

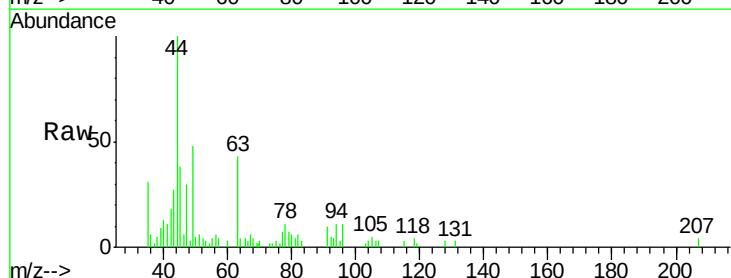
Acq: 20 Nov 2020 19:46

Tgt Ion: 94 Resp: 512

Ion Ratio Lower Upper

94 100

96 132.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

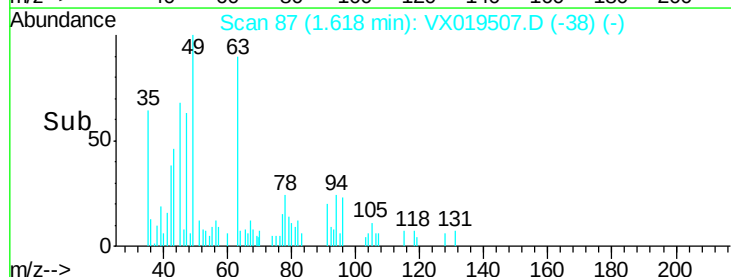
300

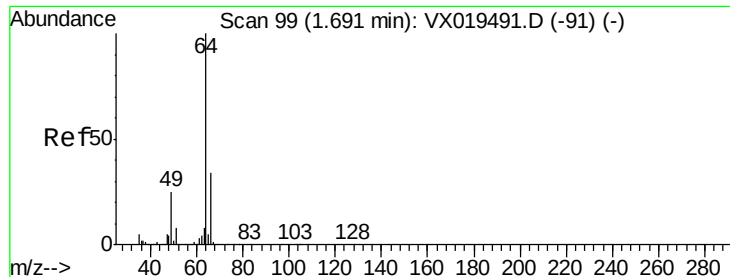
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 97

Delta R.T. -0.01 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

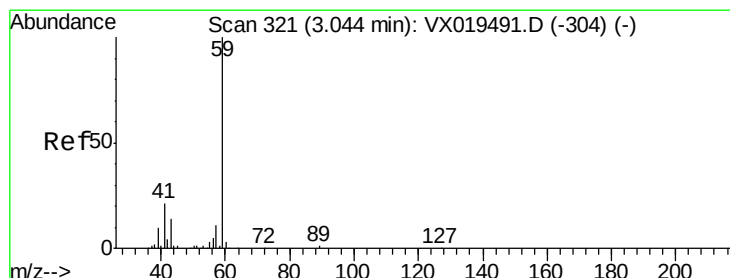
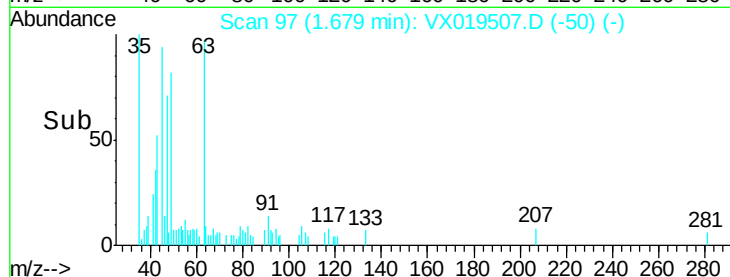
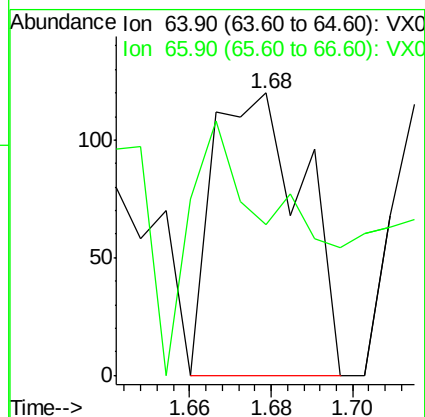
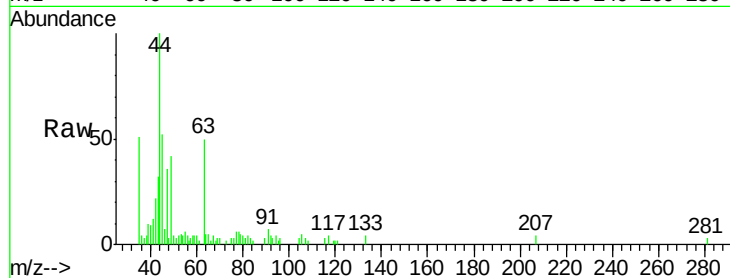
GROUNDWATER

Tot Ion: 64 Resp: 185

Ion Ratio Lower Upper

64 100

66 8.3 27.1 40.7#



#11

Tert butyl alcohol

Concen: 1.238 ug/l

RT: 3.04 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX019507.D

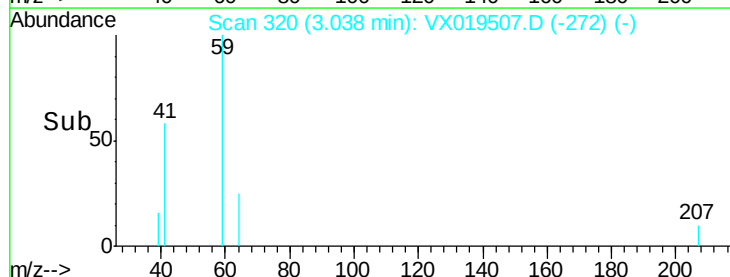
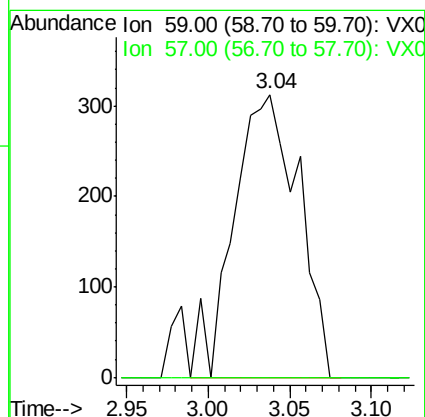
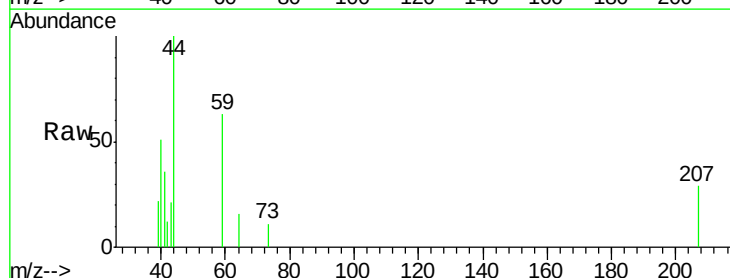
Acq: 20 Nov 2020 19:46

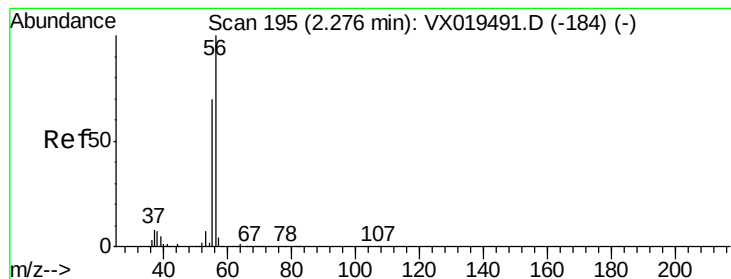
Tgt Ion: 59 Resp: 871

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.605 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

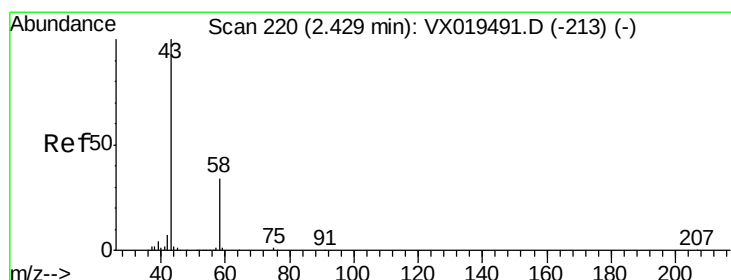
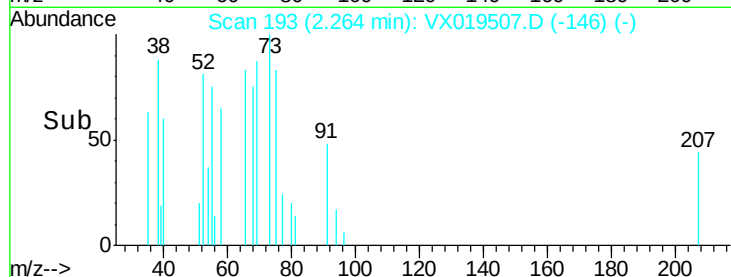
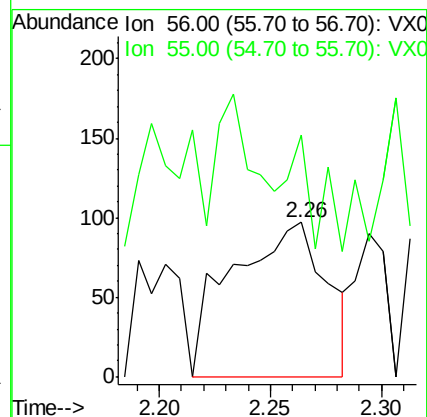
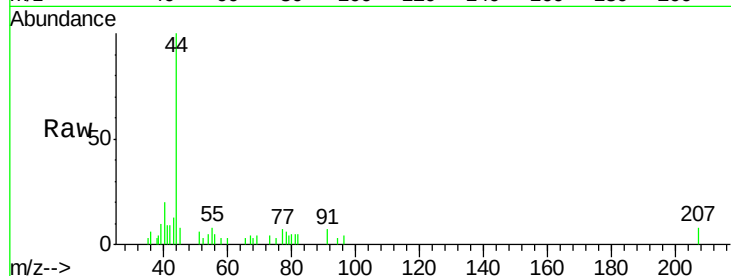
GROUNDWATER

Tot Ion: 56 Resp: 286

Ion Ratio Lower Upper

56 100

55 0.0 55.5 83.3#



#16

Acetone

Concen: 106.113 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019507.D

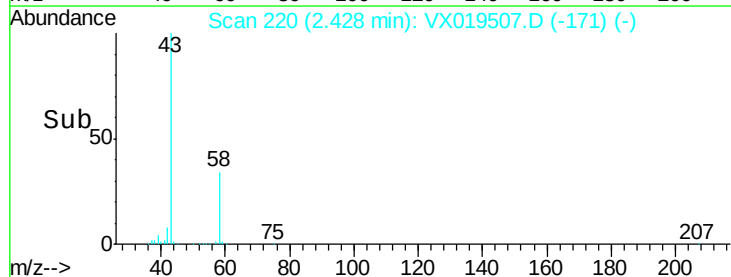
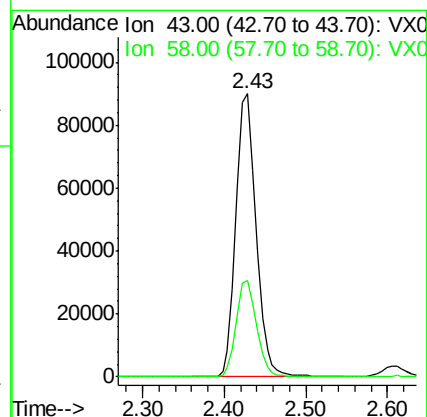
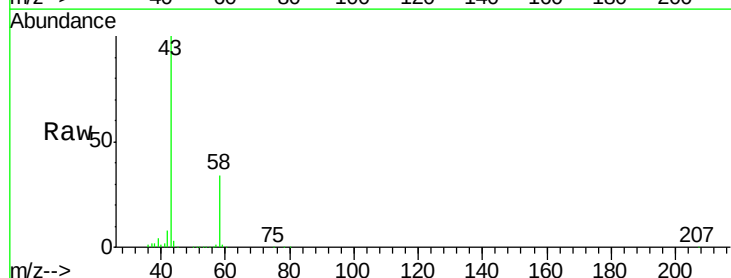
Acq: 20 Nov 2020 19:46

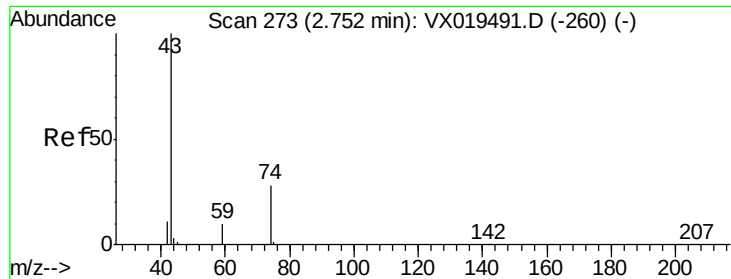
Tgt Ion: 43 Resp: 152528

Ion Ratio Lower Upper

43 100

58 34.0 27.4 41.2

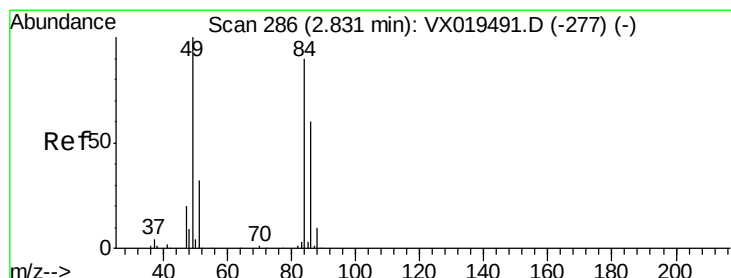
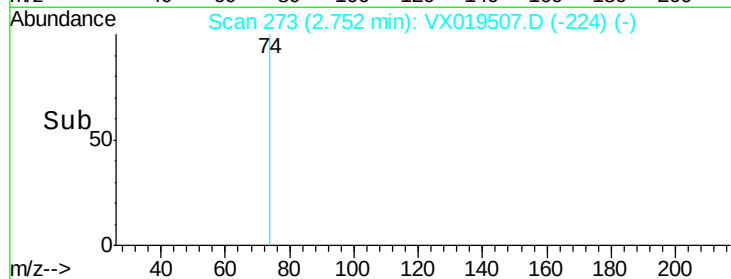
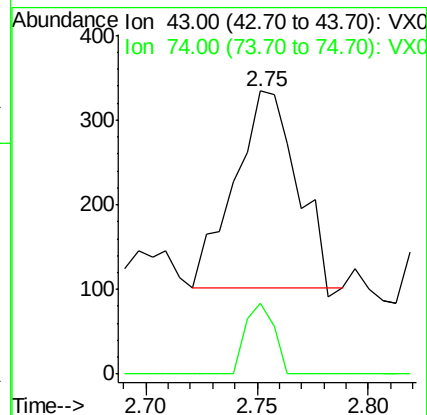
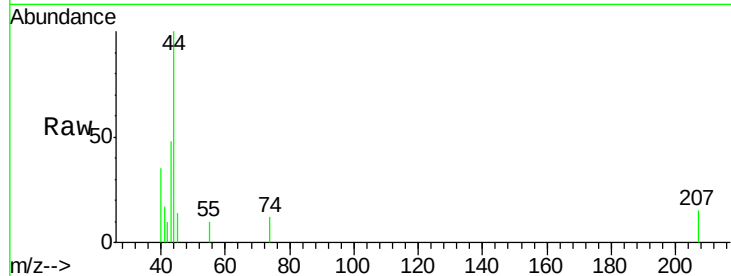




#18
Methyl Acetate
Concen: 0.761 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

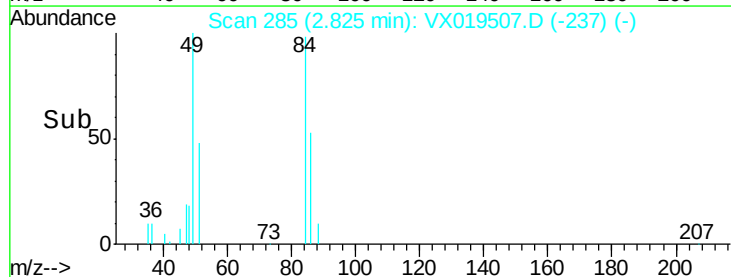
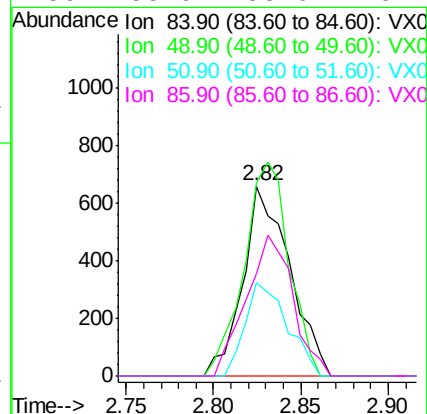
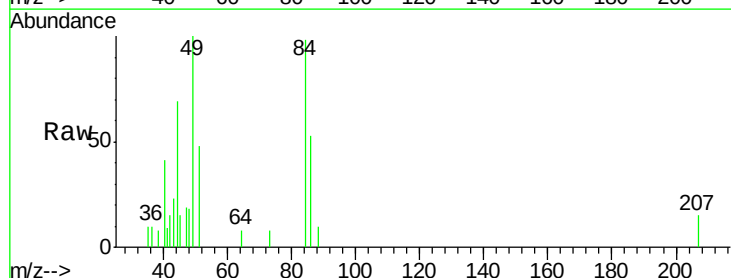
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

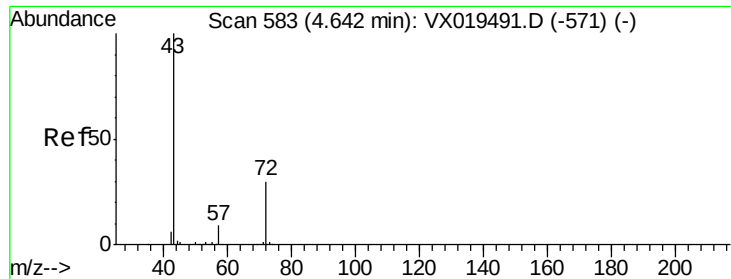
Tot Ion: 43 Resp: 451
Ion Ratio Lower Upper
43 100
74 16.6 22.2 33.4#



#20
Methylene Chloride
Concen: 0.341 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

Tgt Ion: 84 Resp: 1226
Ion Ratio Lower Upper
84 100
49 102.1 88.5 132.7
51 49.2 28.0 42.0#
86 53.9 53.0 79.4





#25

2-Butanone

Concen: 0.457 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

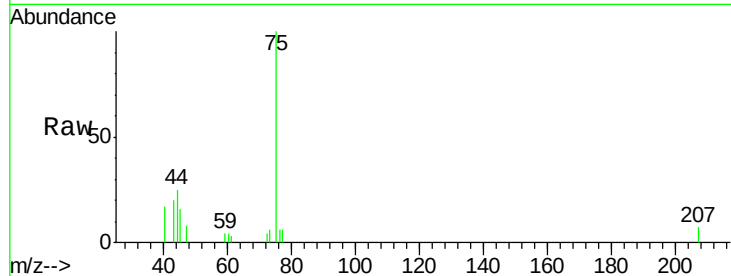
GROUNDWATER

Tot Ion: 43 Resp: 986

Ion Ratio Lower Upper

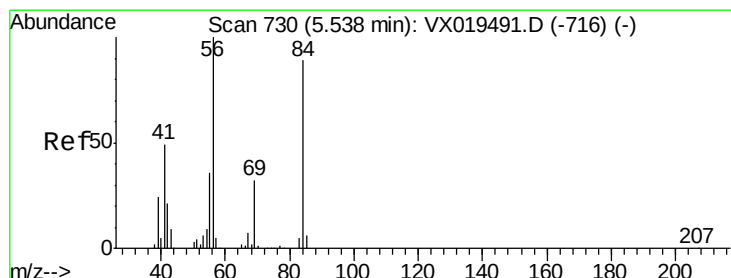
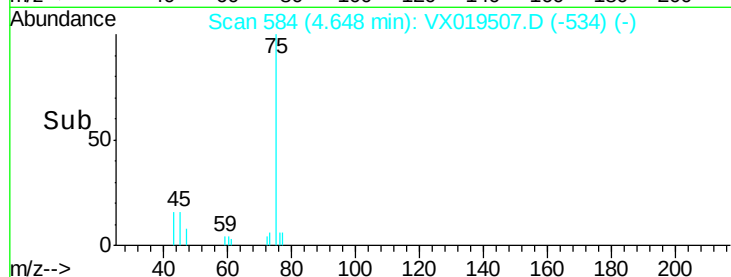
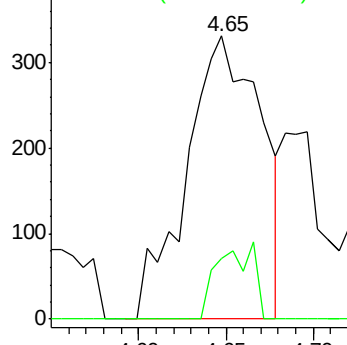
43 100

72 21.5 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1.127 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

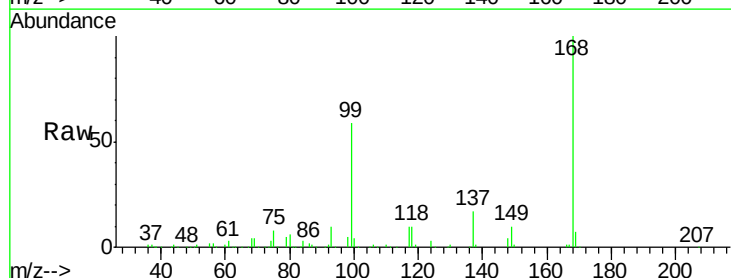
Tgt Ion: 56 Resp: 5447

Ion Ratio Lower Upper

56 100

69 190.6 25.5 38.3#

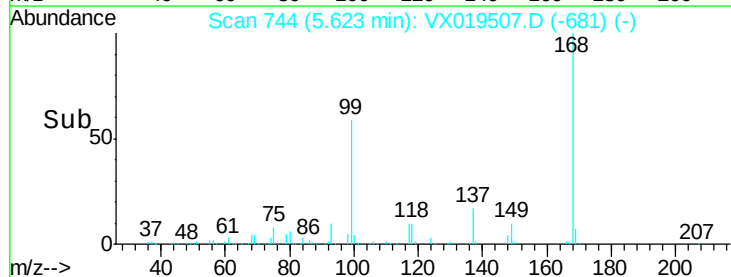
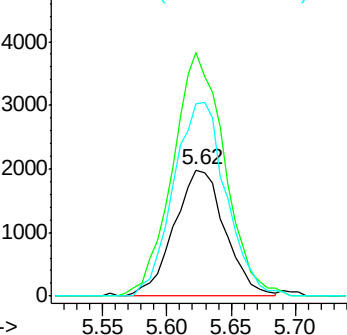
84 152.6 71.1 106.7#

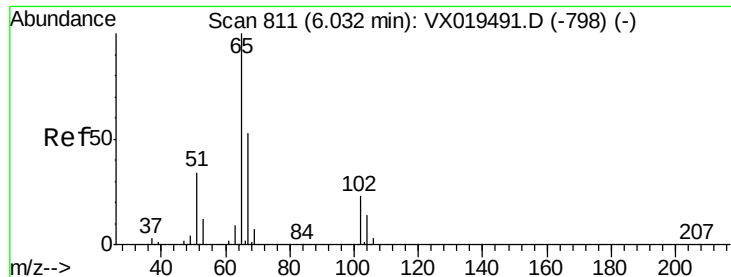


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

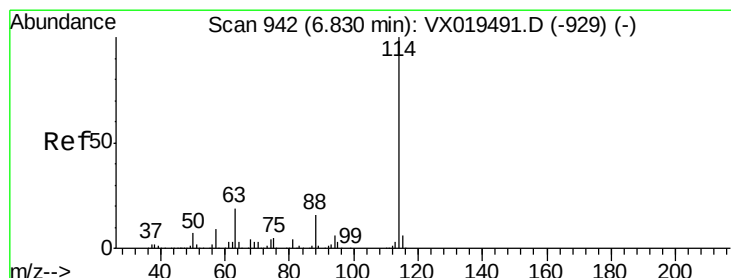
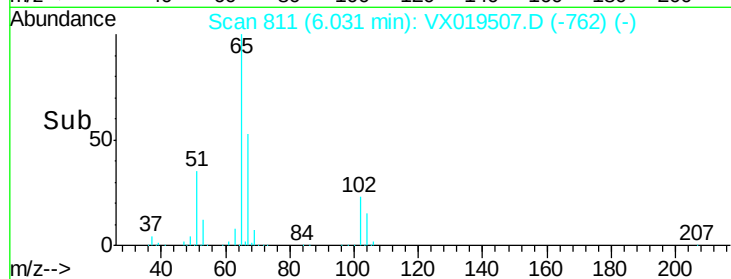
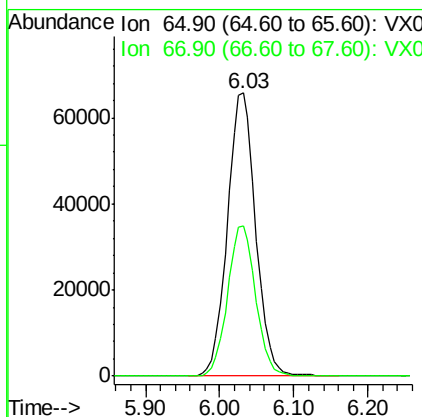
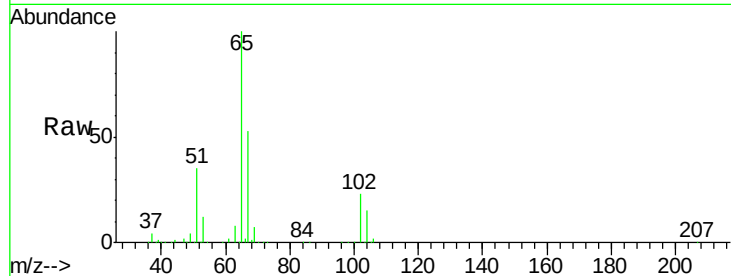




#33
 1,2-Dichloroethane-d4
 Concen: 46.913 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019507.D
 Acq: 20 Nov 2020 19:46

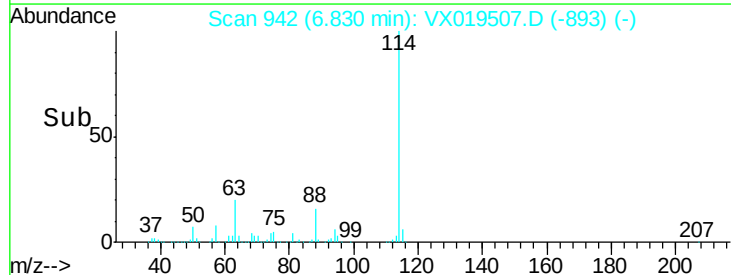
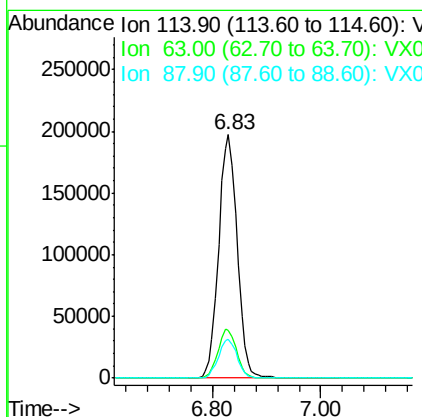
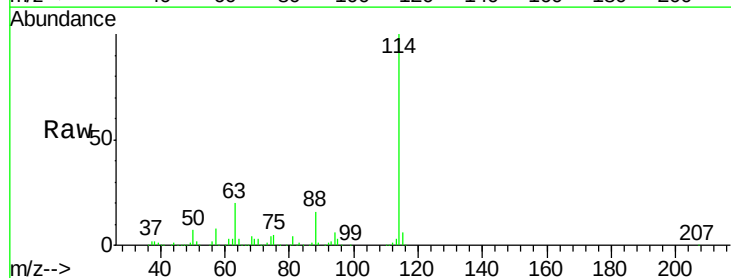
Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATER

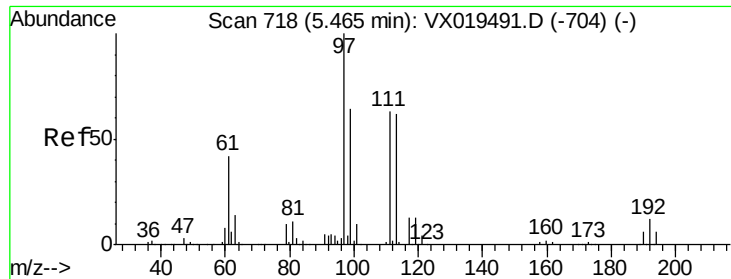
Tot Ion: 65 Resp: 174371
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019507.D
 Acq: 20 Nov 2020 19:46

Tgt Ion: 114 Resp: 467233
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.8
 88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.125 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

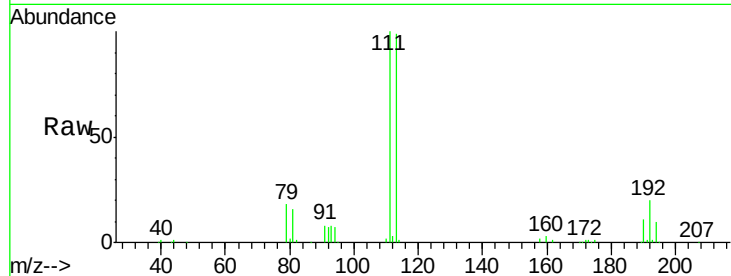
Tot Ion:113 Resp: 138209

Ion Ratio Lower Upper

113 100

111 103.2 81.5 122.3

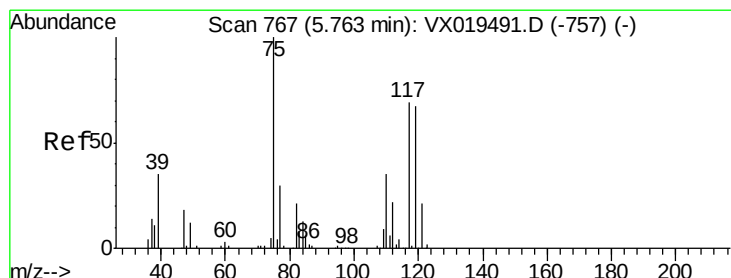
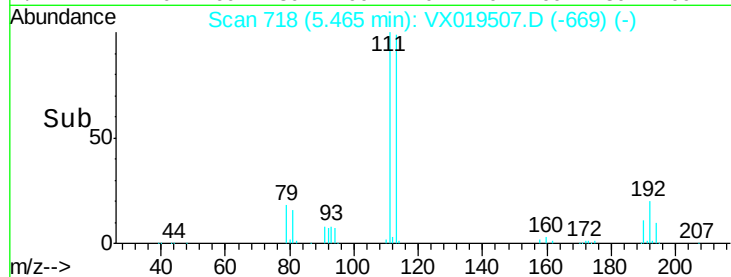
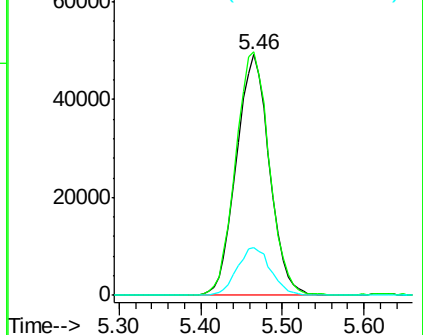
192 20.3 16.2 24.2



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: 4.899 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

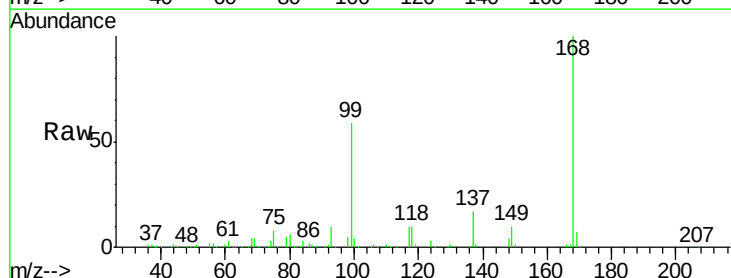
Tgt Ion: 75 Resp: 21459

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.3#

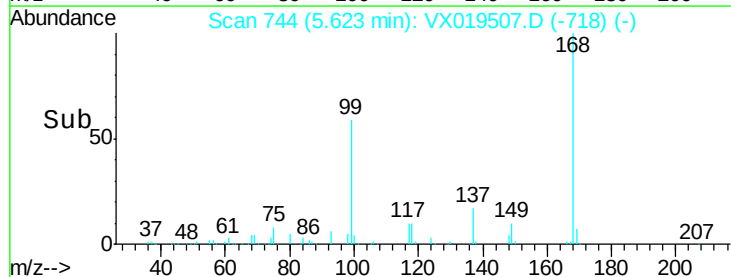
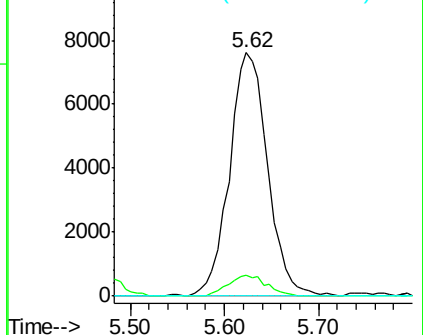
77 0.0 24.2 36.4#

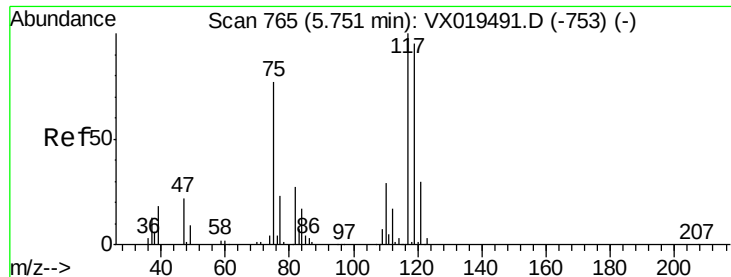


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.693 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

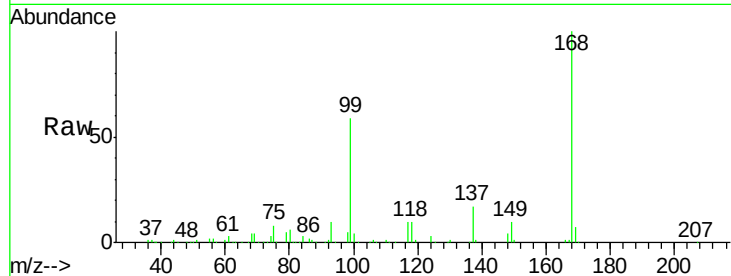
Tot Ion:117 Resp: 28378

Ion Ratio Lower Upper

117 100

119 6.0 75.9 113.9#

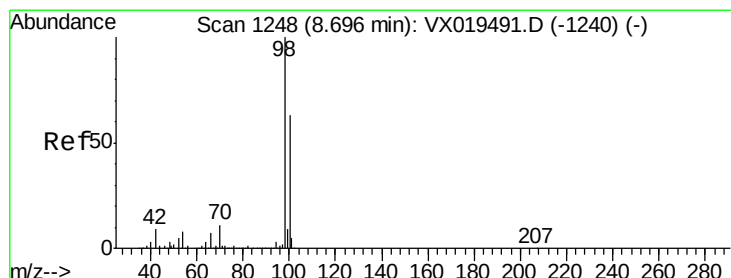
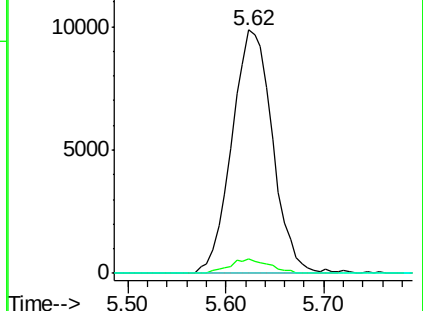
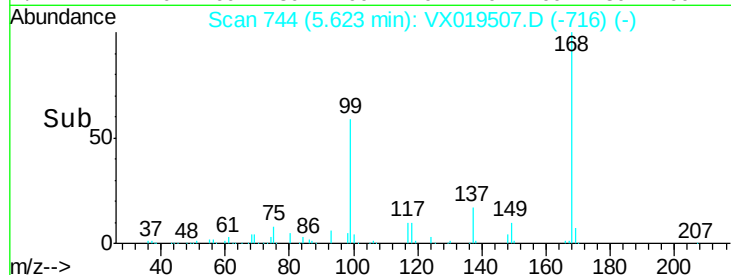
121 0.0 24.0 36.0#



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



#50

Toluene-d8

Concen: 48.263 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019507.D

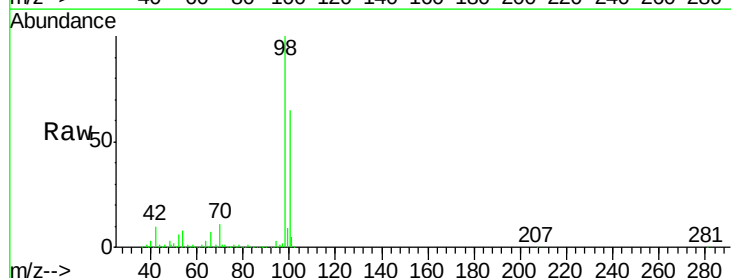
Acq: 20 Nov 2020 19:46

Tgt Ion: 98 Resp: 550031

Ion Ratio Lower Upper

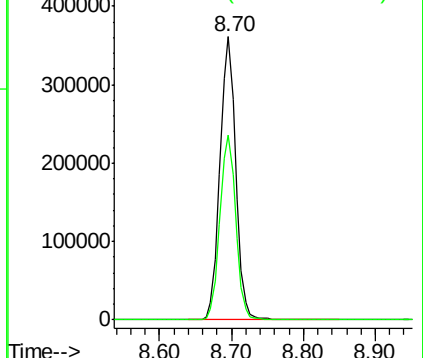
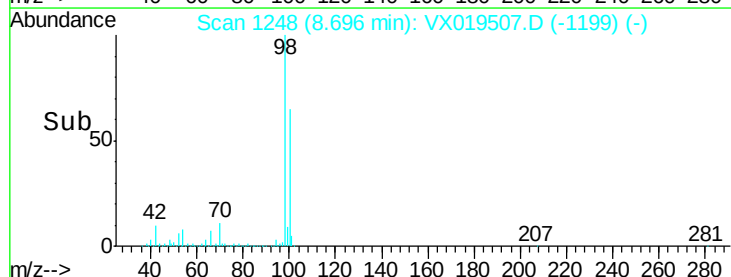
98 100

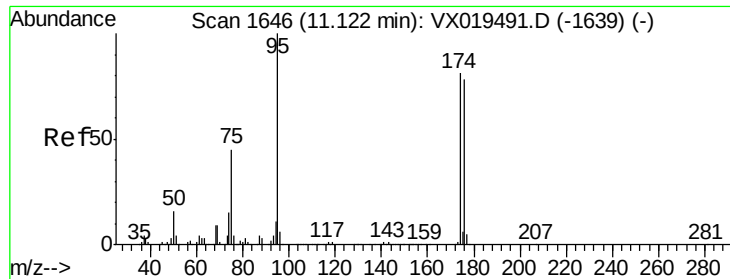
100 65.8 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

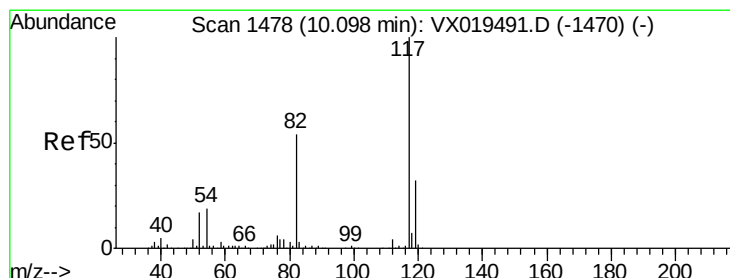
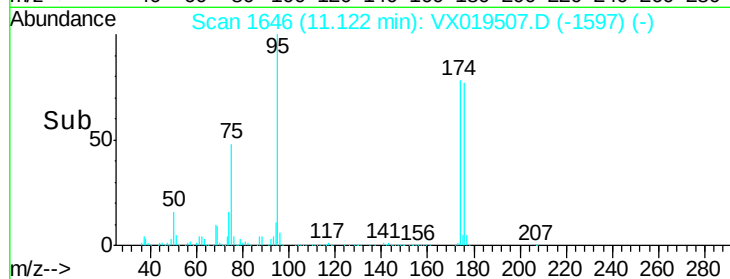
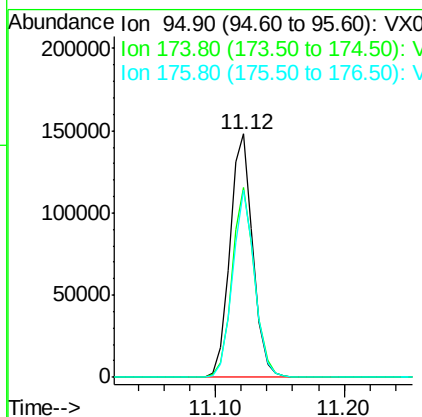
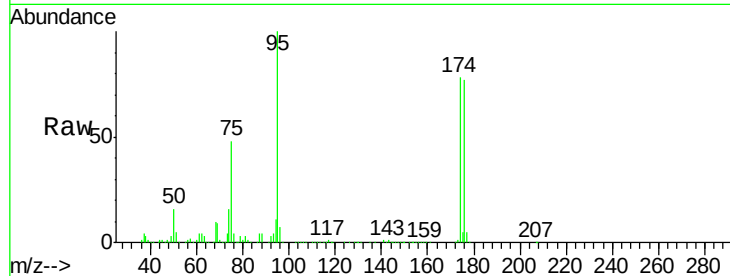




#62
4-Bromofluorobenzene
Concen: 44.740 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

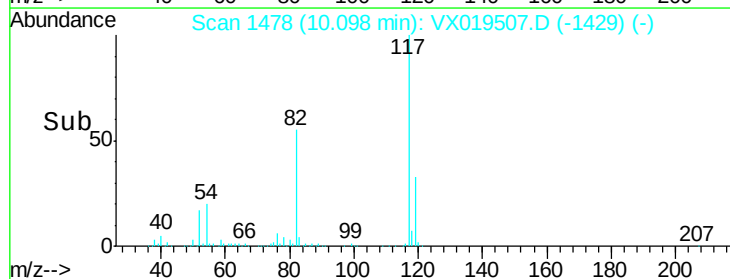
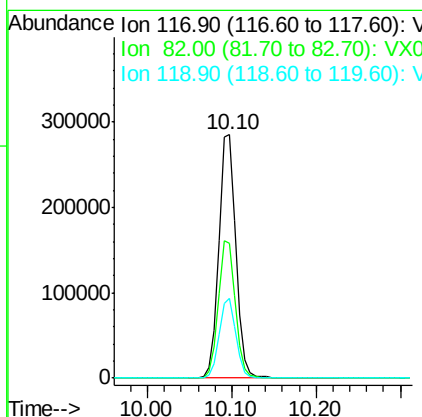
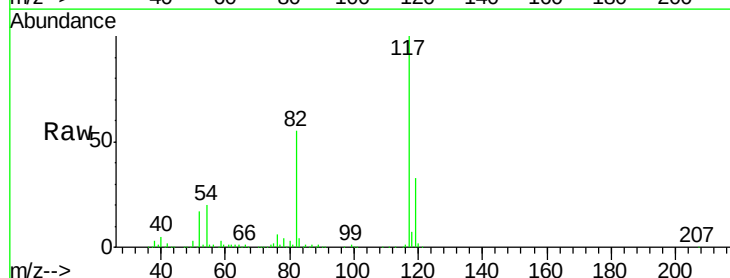
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

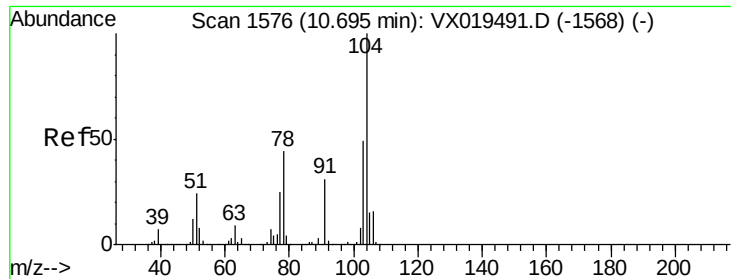
Tot Ion: 95 Resp: 183452
Ion Ratio Lower Upper
95 100
174 76.6 0.0 156.2
176 74.3 0.0 151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

Tgt Ion: 117 Resp: 401197
Ion Ratio Lower Upper
117 100
82 55.3 43.0 64.4
119 32.7 25.6 38.4

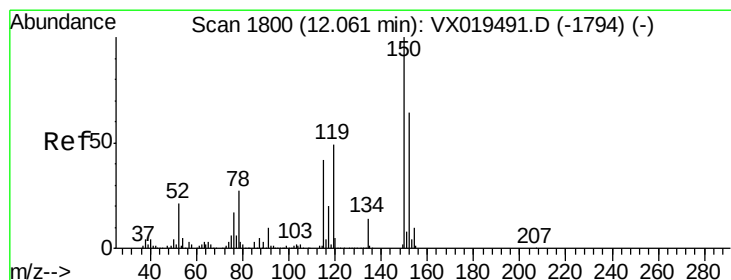
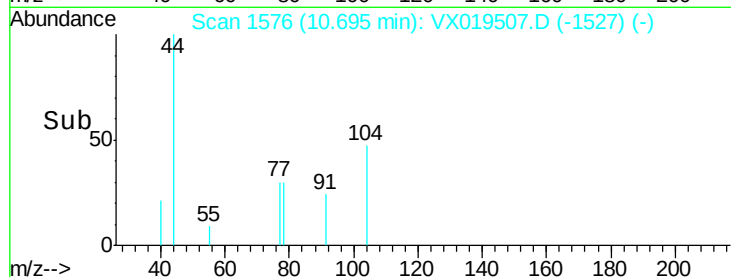
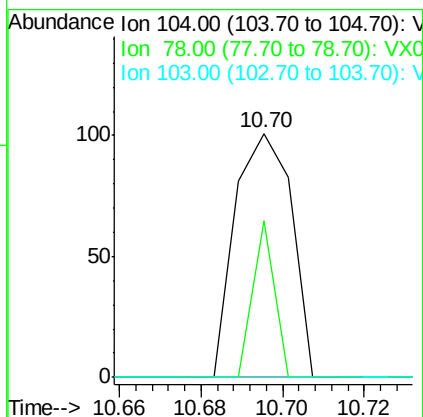
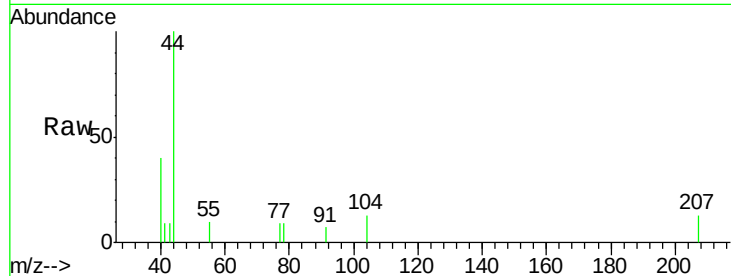




#70
Stvrene
Concen: 1.656 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

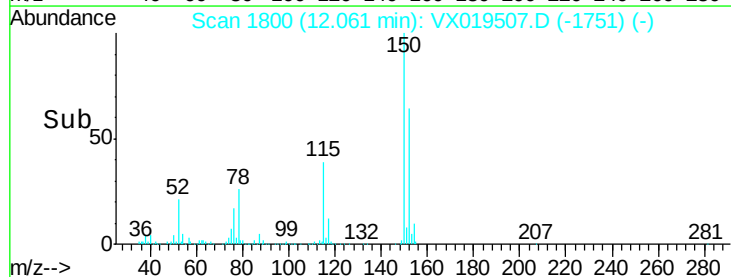
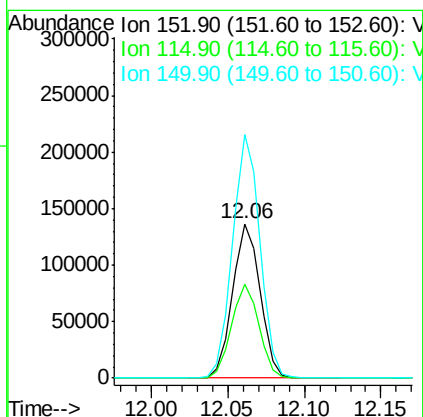
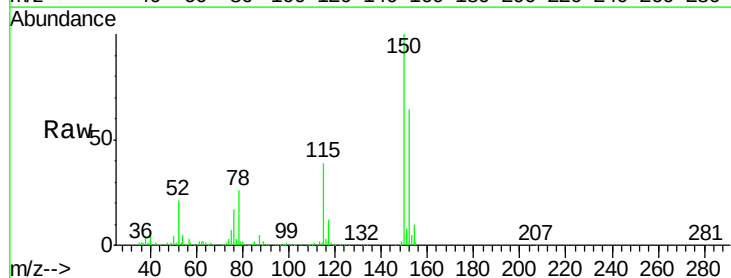
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

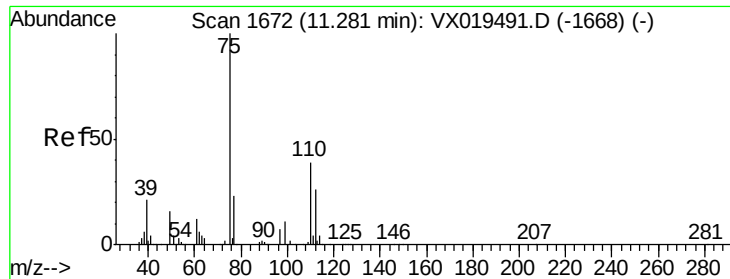
Tot Ion:104 Resp: 97
Ion Ratio Lower Upper
104 100
78 24.7 39.5 59.3#
103 0.0 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

Tgt Ion:152 Resp: 170598
Ion Ratio Lower Upper
152 100
115 60.4 41.8 125.4
150 156.5 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 23.927 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

Instrument :

MSVOA_X

ClientSampleId :

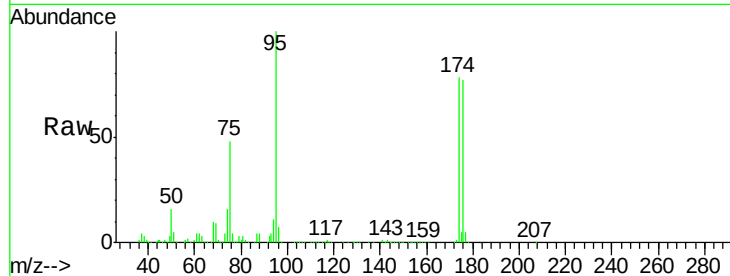
GROUNDWATER

Tot Ion: 75 Resp: 89082

Ion Ratio Lower Upper

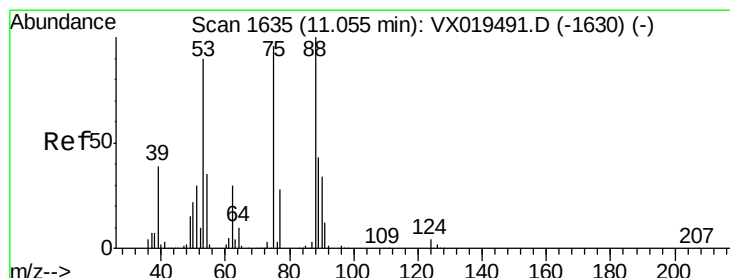
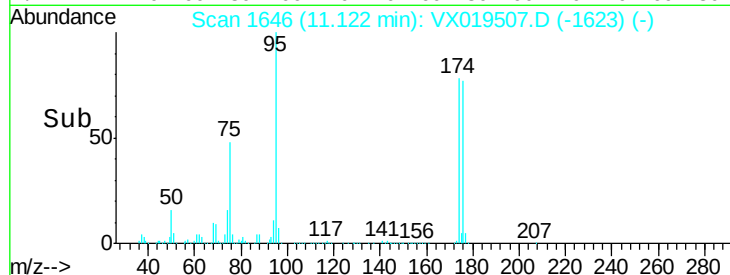
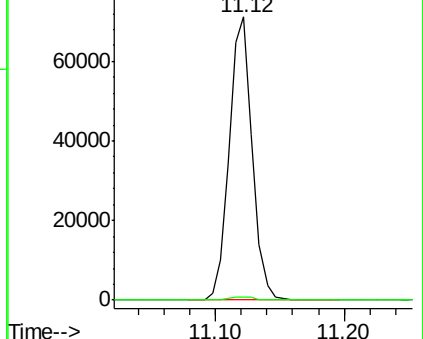
75 100

77 1.3 20.0 60.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 63.388 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019507.D

Acq: 20 Nov 2020 19:46

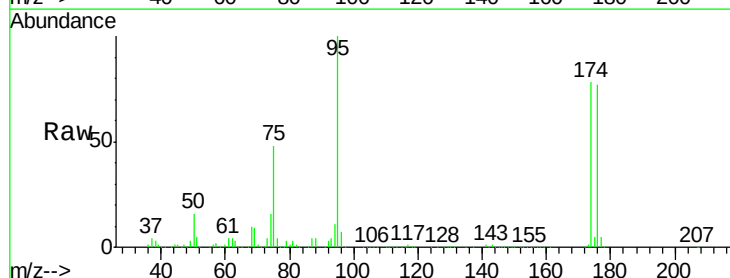
Tgt Ion: 75 Resp: 89082

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

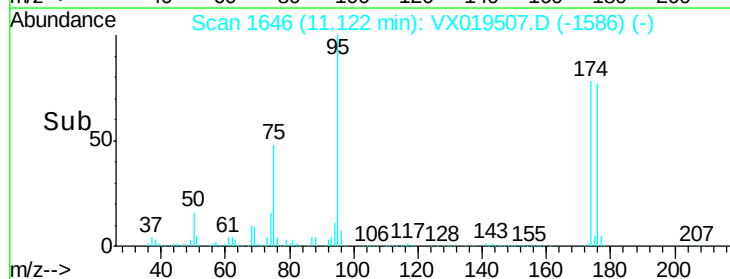
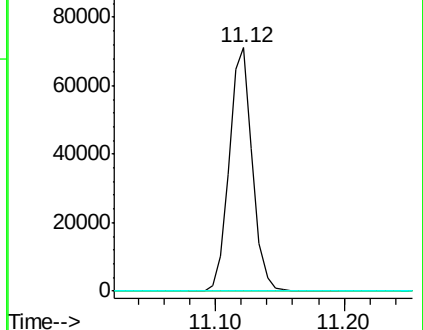
89 0.0 37.3 55.9#

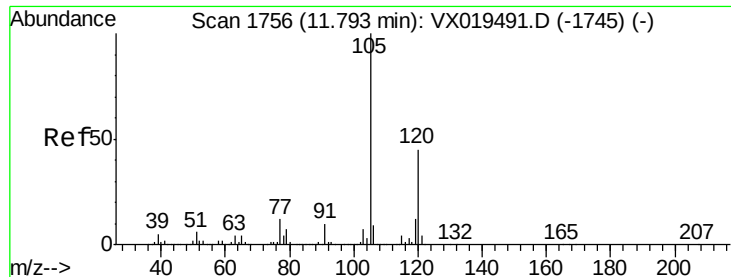


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

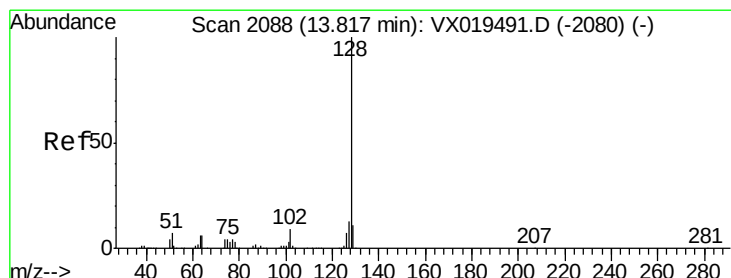
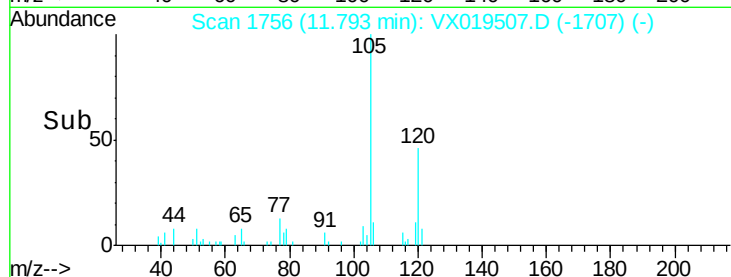
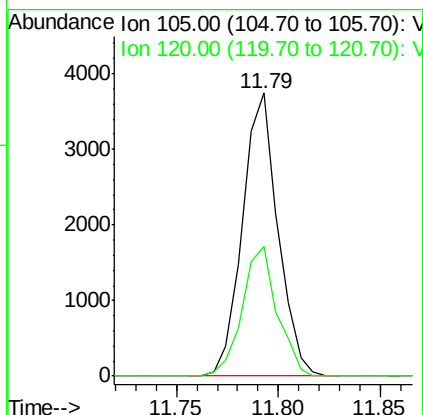
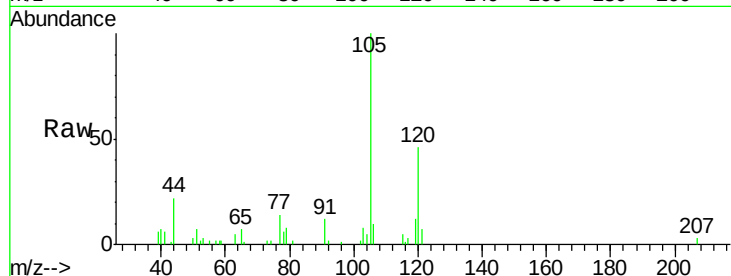




#84
1,2,4-Trimethylbenzene
Concen: 0.451 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

Tot Ion:105 Resp: 4517
Ion Ratio Lower Upper
105 100
120 45.2 22.2 66.6



#95
Naphthalene
Concen: 2.208 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019507.D
Acq: 20 Nov 2020 19:46

Tgt Ion:128 Resp: 397
Ion Ratio Lower Upper
128 100
127 17.1 10.3 15.5#
129 6.5 8.7 13.1#

