

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013017.D
 Acq On : 11 Oct 2019 15:33
 Operator : JC/SP
 Sample : K5316-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HH-WATER

Quant Time: Oct 11 23:27:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	179479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	295522	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100465	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	112171	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
35) Dibromofluoromethane	5.49	113	85315	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
50) Toluene-d8	8.71	98	345659	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.14	95	117168	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	

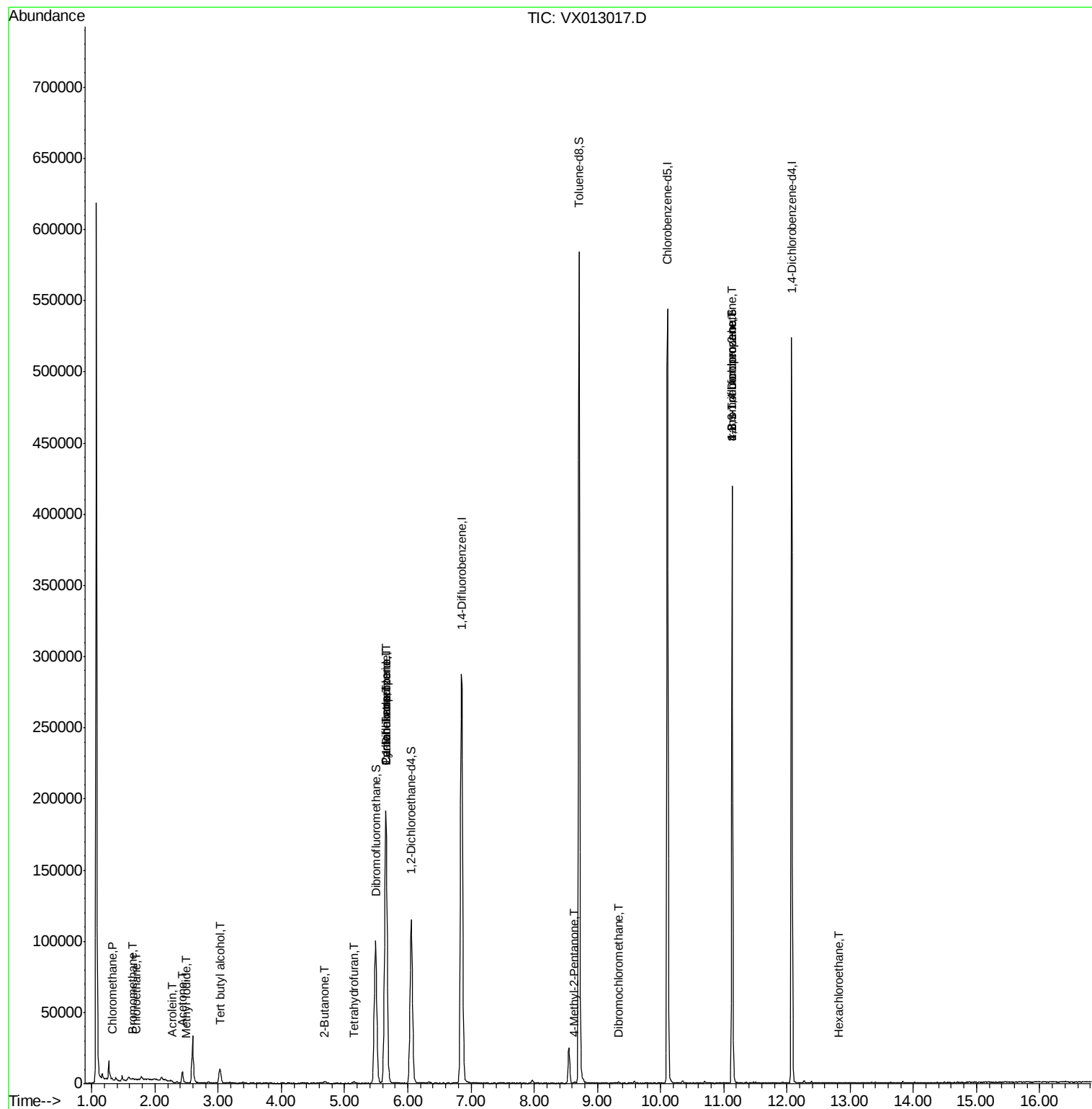
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	591	0.297	ug/l	98
5) Bromomethane	1.66	94	318	0.372	ug/l	89
6) Chloroethane	1.70	64	385	0.672	ug/l #	43
10) Methyl Iodide	2.50	142	339	5.231	ug/l #	75
11) Tert butyl alcohol	3.03	59	12508	21.034	ug/l	96
13) Acrolein	2.27	56	335	0.793	ug/l #	55
16) Acetone	2.44	43	8868	7.500	ug/l	99
25) 2-Butanone	4.67	43	409	0.249	ug/l #	49
29) Tetrahydrofuran	5.14	42	690	0.684	ug/l	91
31) Cyclohexane	5.66	56	3756	1.154	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14397	5.541	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18085	7.151	ug/l #	18
51) 4-Methyl-2-Pentanone	8.64	43	991	0.341	ug/l #	78
60) Dibromochloromethane	9.34	129	59	1.883	ug/l #	10
76) 1,2,3-Trichloropropane	11.14	75	58636	26.314	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	58636	66.223	ug/l #	10
90) Hexachloroethane	12.82	117	25	2.138	ug/l #	13

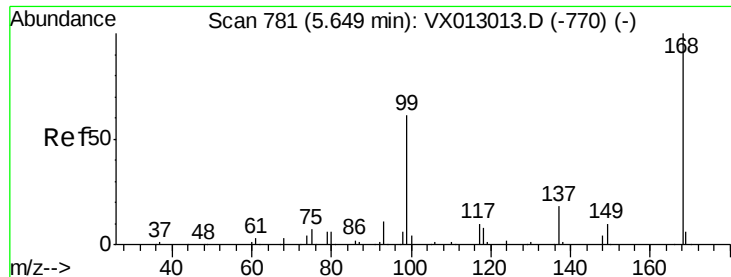
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

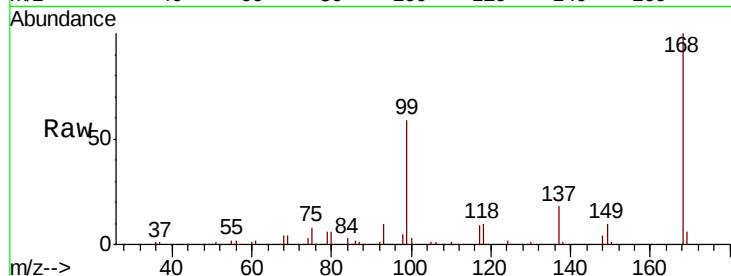
HH-WATER

Tot Ion:168 Resp: 179479

Ion Ratio Lower Upper

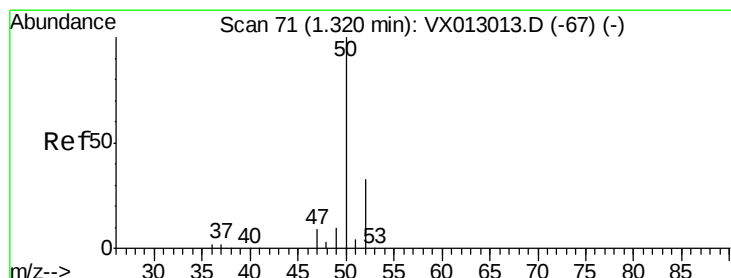
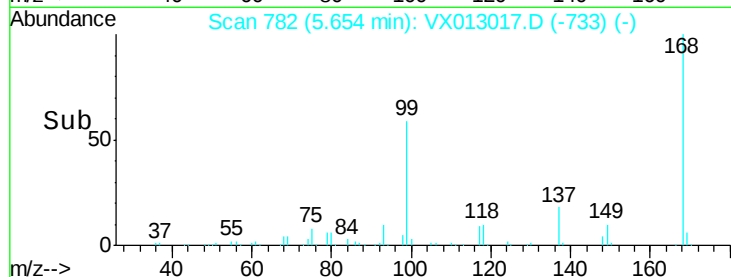
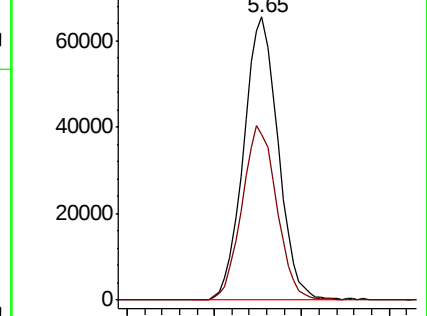
168 100

99 58.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.297 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013017.D

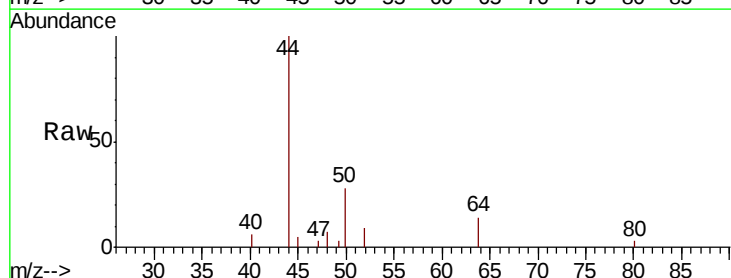
Acq: 11 Oct 2019 15:33

Tgt Ion: 50 Resp: 591

Ion Ratio Lower Upper

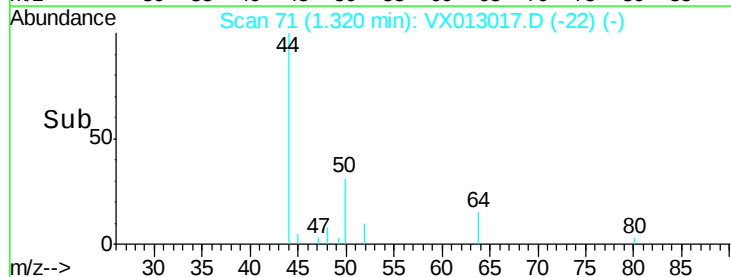
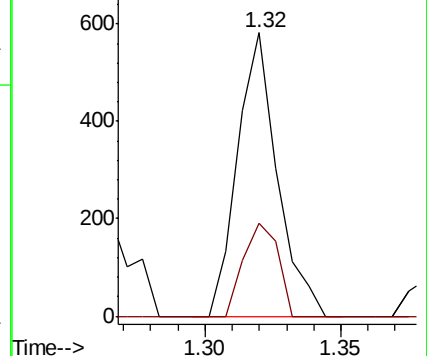
50 100

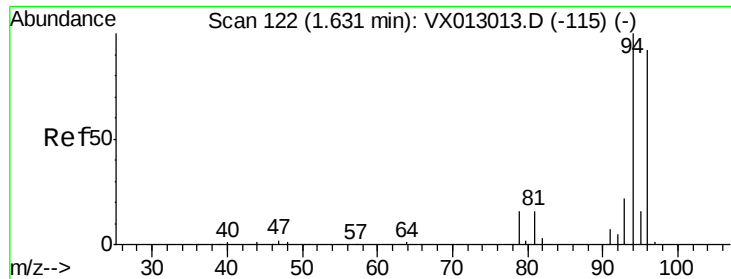
52 32.6 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.372 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampled :

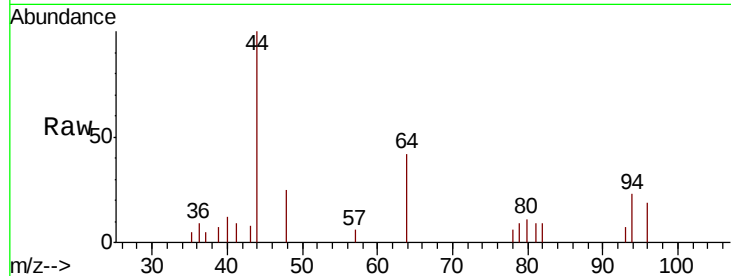
HH-WATER

Tot Ion: 94 Resp: 318

Ion Ratio Lower Upper

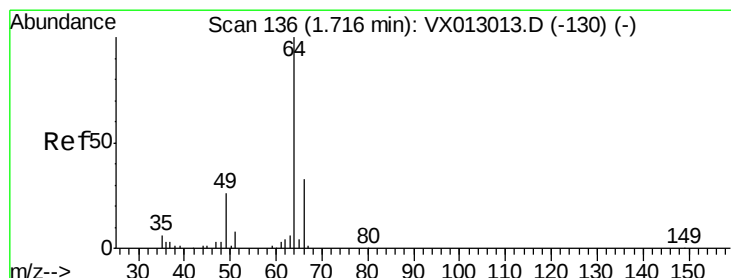
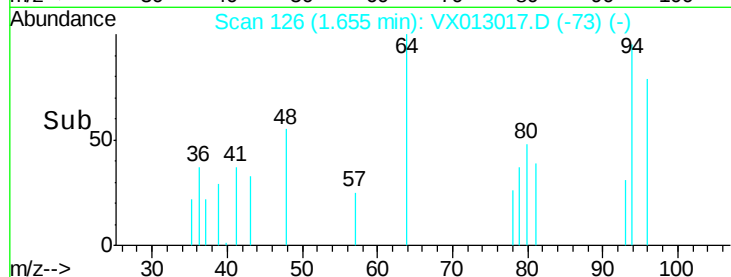
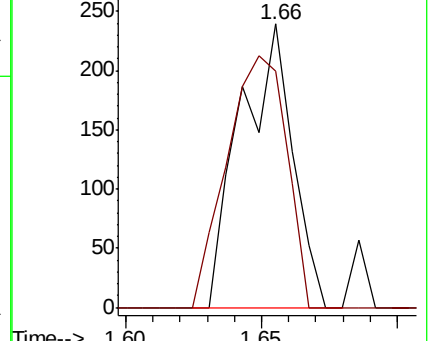
94 100

96 83.3 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.672 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013017.D

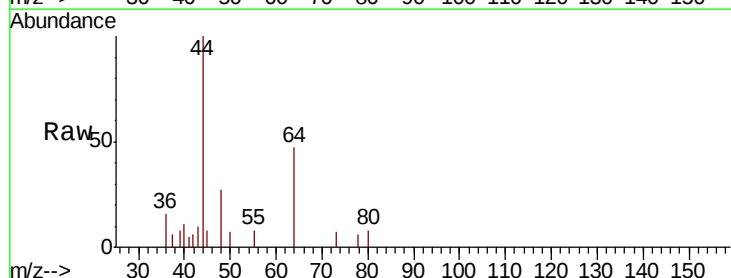
Acq: 11 Oct 2019 15:33

Tgt Ion: 64 Resp: 385

Ion Ratio Lower Upper

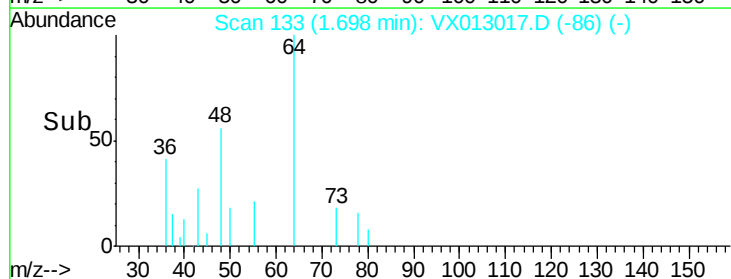
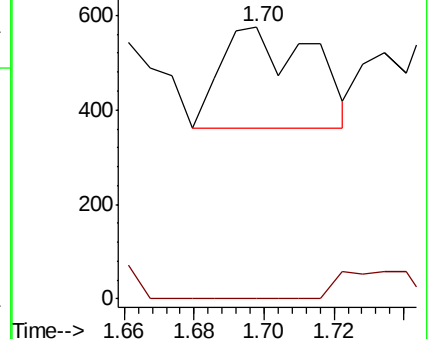
64 100

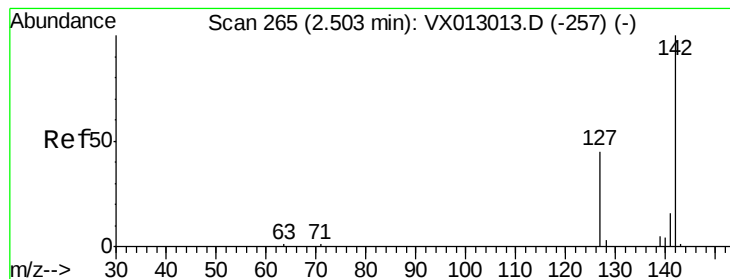
66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 5.231 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

HH-WATER

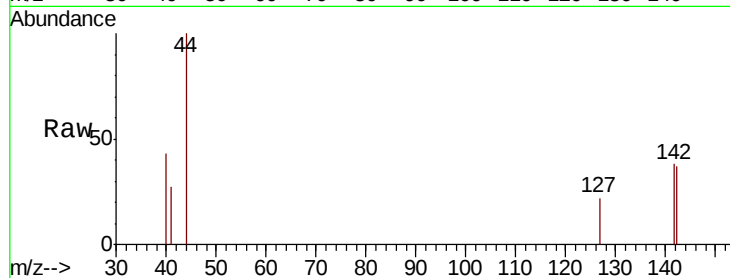
Tot Ion:142 Resp: 339

Ion Ratio Lower Upper

142 100

127 30.1 34.9 52.3#

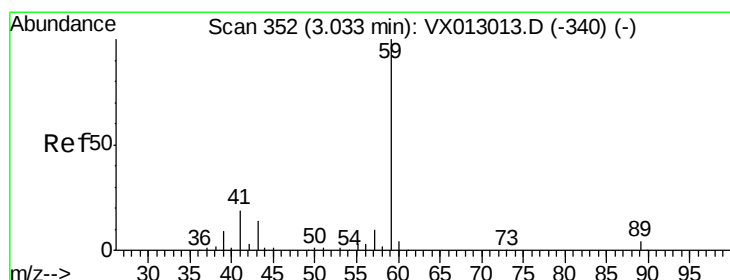
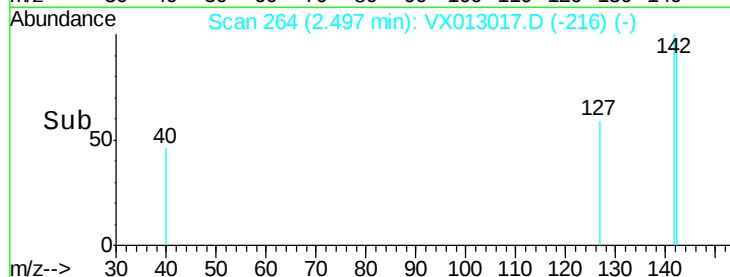
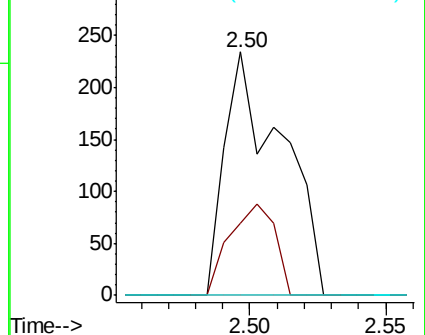
141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 21.034 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013017.D

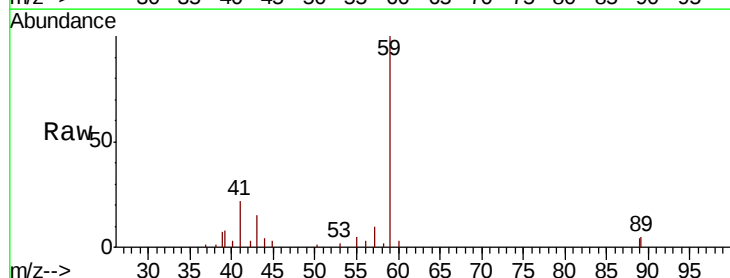
Acq: 11 Oct 2019 15:33

Tgt Ion: 59 Resp: 12508

Ion Ratio Lower Upper

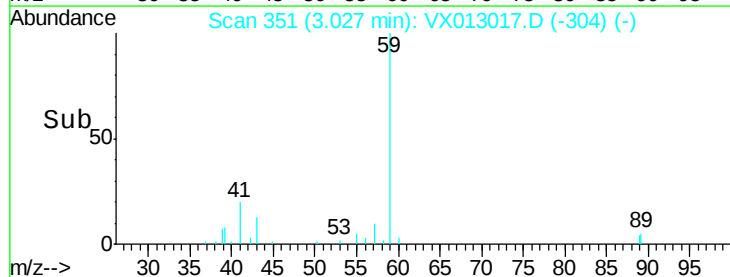
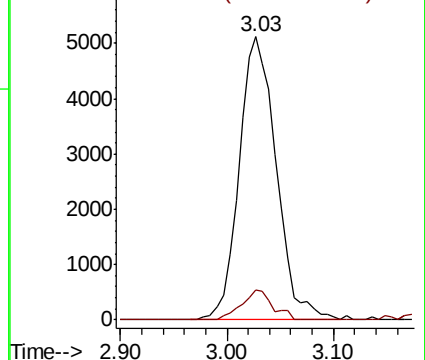
59 100

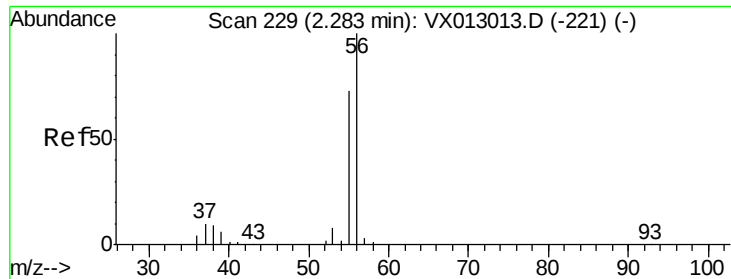
57 8.7 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.793 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

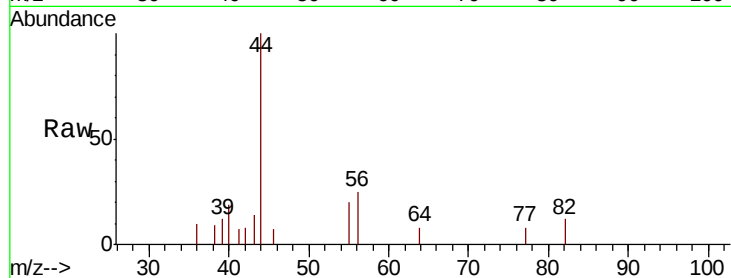
HH-WATER

Tot Ion: 56 Resp: 335

Ion Ratio Lower Upper

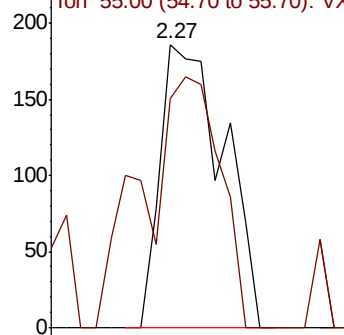
56 100

55 108.1 56.6 85.0#

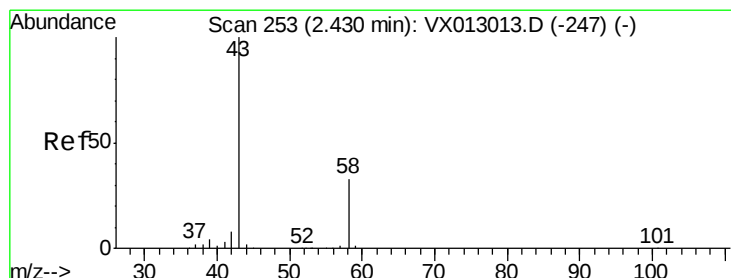
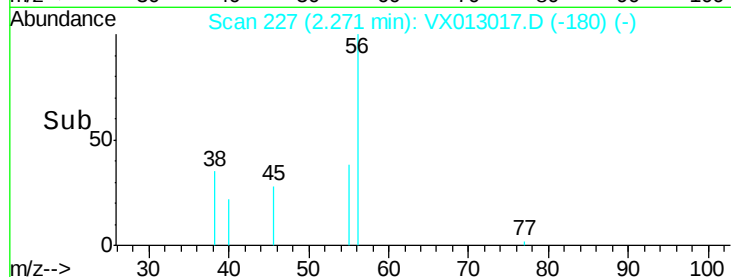


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 7.500 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013017.D

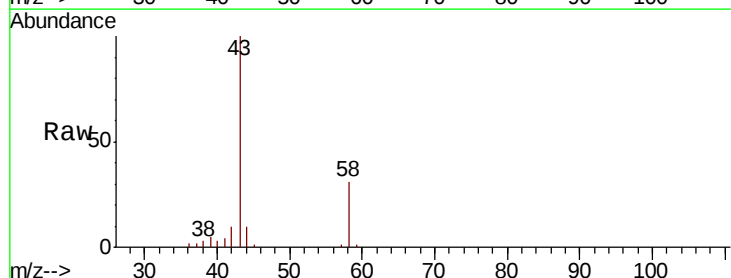
Acq: 11 Oct 2019 15:33

Tgt Ion: 43 Resp: 8868

Ion Ratio Lower Upper

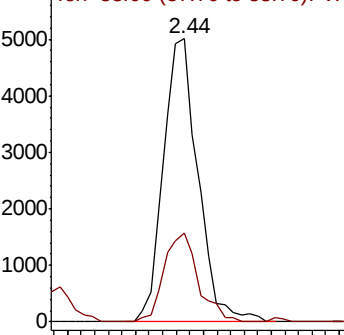
43 100

58 31.5 25.4 38.2

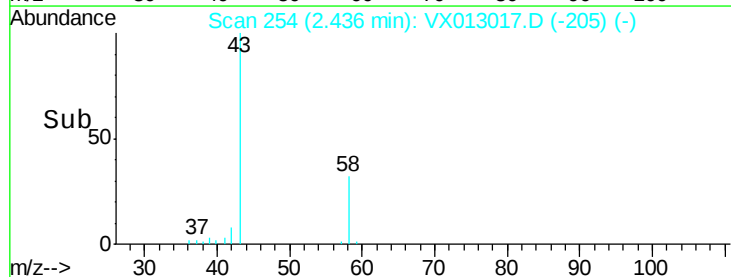


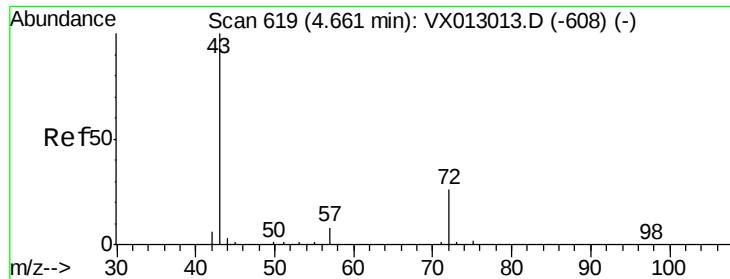
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampled :

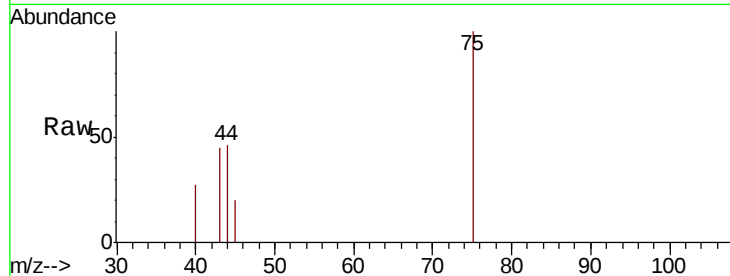
HH-WATER

Tot Ion: 43 Resp: 409

Ion Ratio Lower Upper

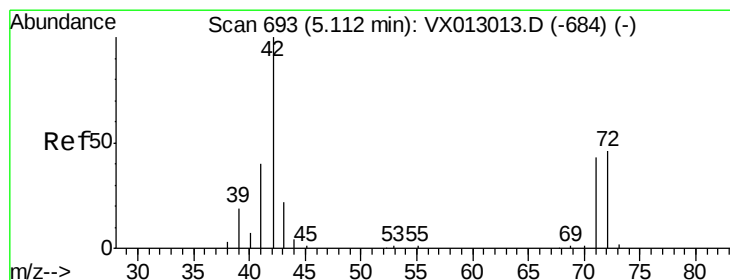
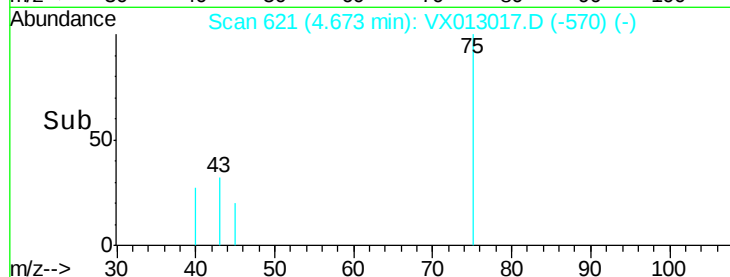
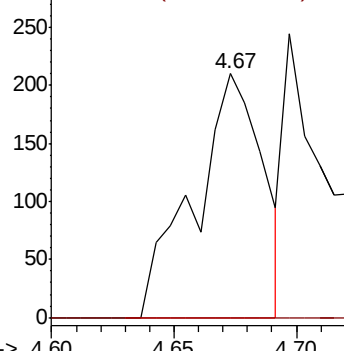
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.684 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

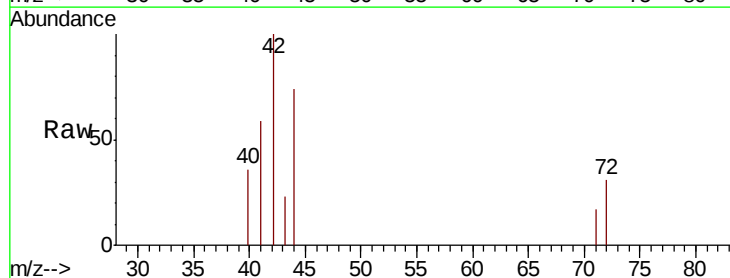
Tgt Ion: 42 Resp: 690

Ion Ratio Lower Upper

42 100

72 40.7 36.9 55.3

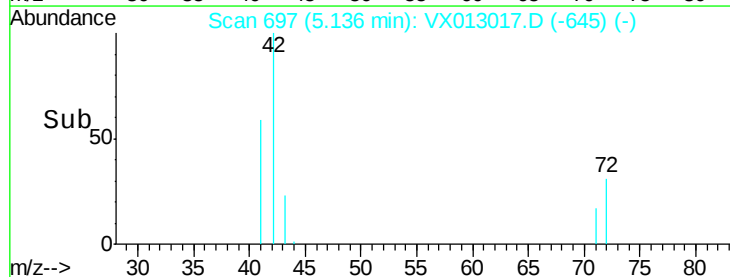
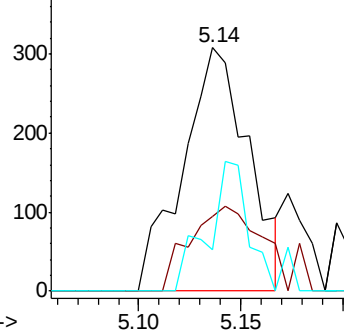
71 35.7 33.5 50.3

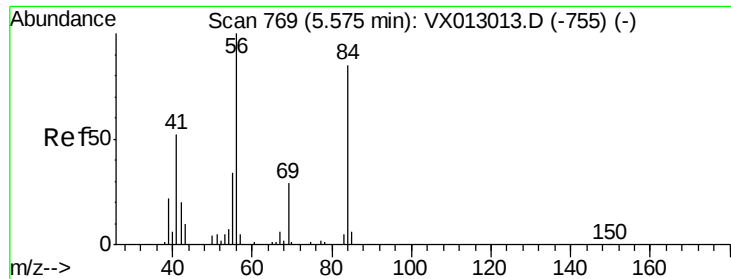


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

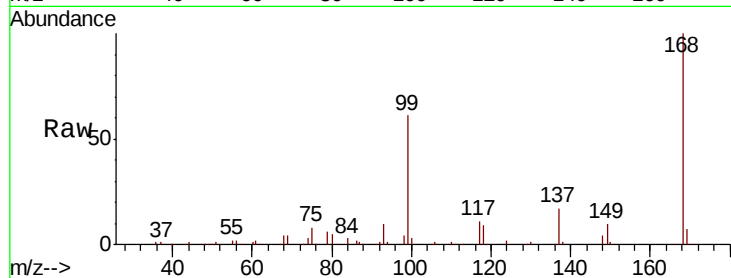




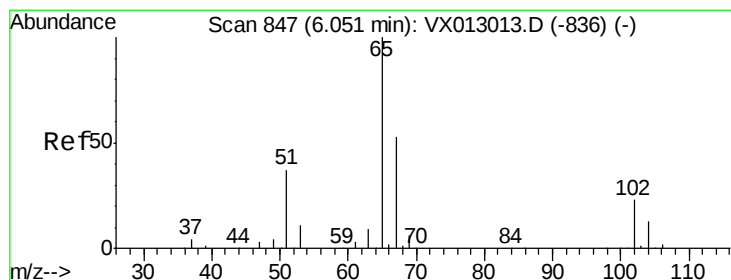
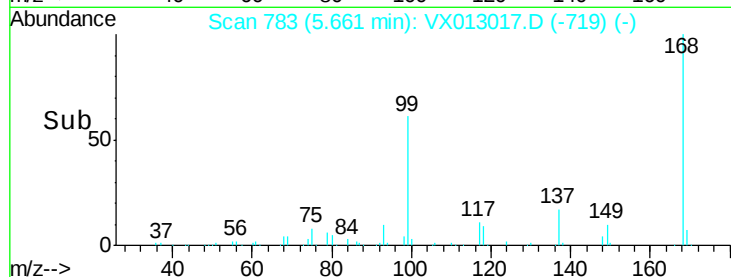
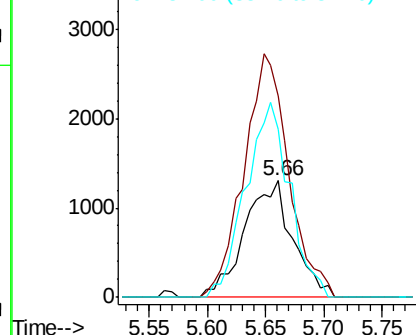
#31
Cyclohexane
Concen: 1.154 ug/l
RT: 5.66 min Scan# 783
Delta R.T. 0.09 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

Instrument :
MSVOA_X
ClientSampled :
HH-WATER

Tot Ion: 56 Resp: 3756
Ion Ratio Lower Upper
56 100
69 172.6 25.2 37.8#
84 143.8 71.3 106.9#

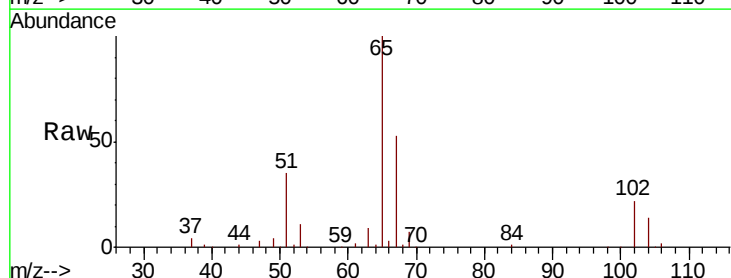


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

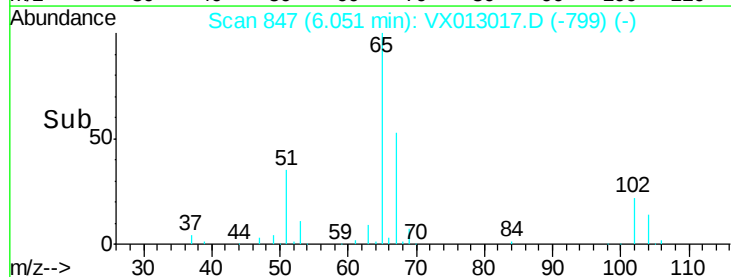
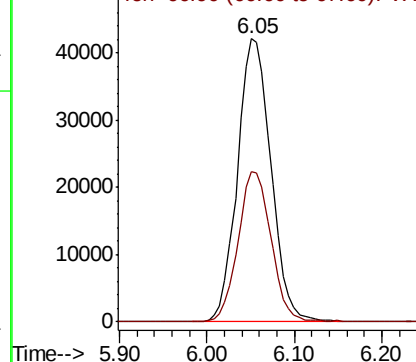


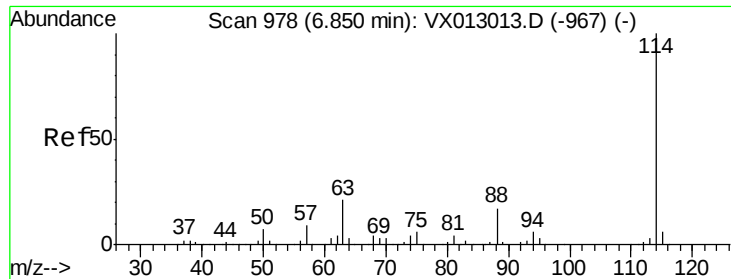
#33
1,2-Dichloroethane-d4
Concen: 50.004 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

Tgt Ion: 65 Resp: 112171
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

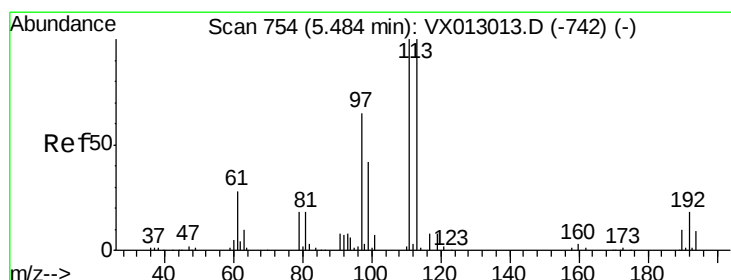
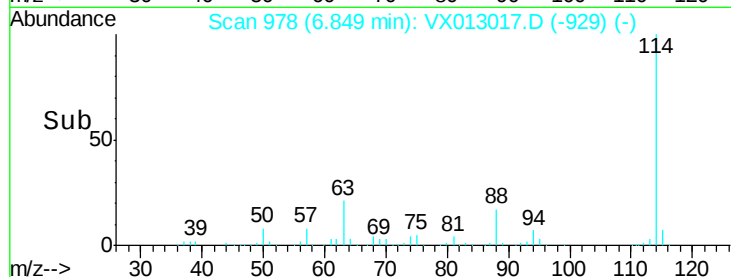
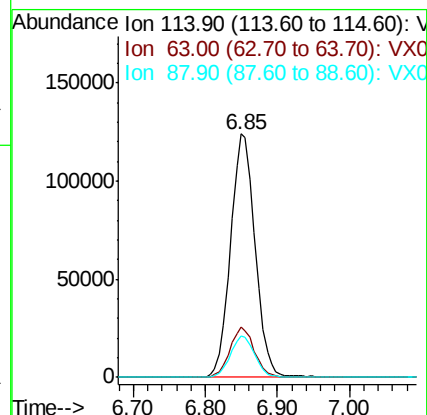
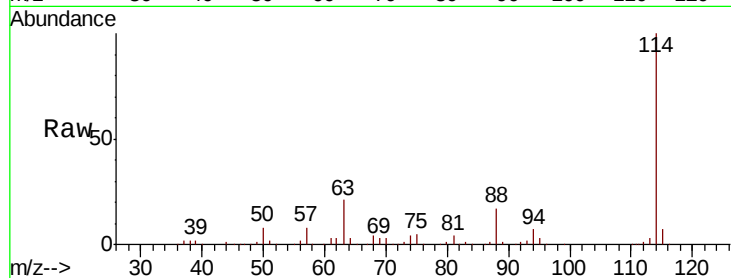




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013017.D
 Acq: 11 Oct 2019 15:33

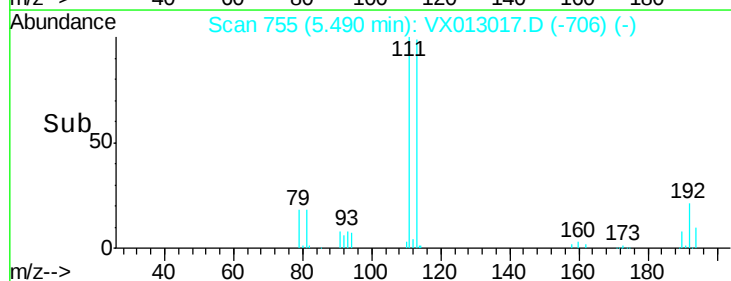
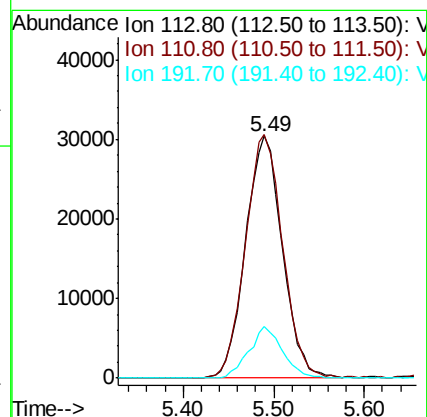
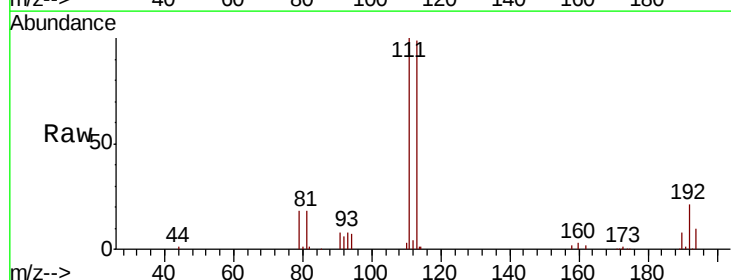
Instrument :
 MSVOA_X
 ClientSampleId :
 HH-WATER

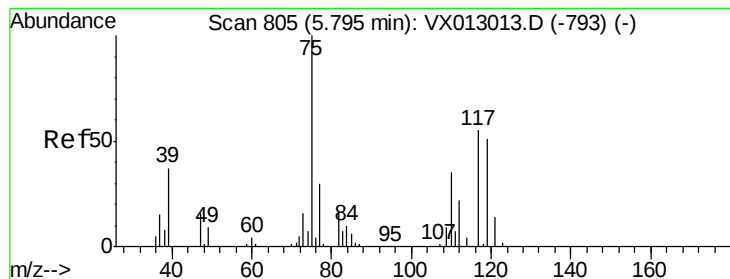
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	16.9	0.0	33.8



#35
 Dibromofluoromethane
 Concen: 50.299 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX013017.D
 Acq: 11 Oct 2019 15:33

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.2	124.8
192	19.5	15.4	23.2





#36

1,1-Dichloropropene

Concen: 5.541 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

HH-WATER

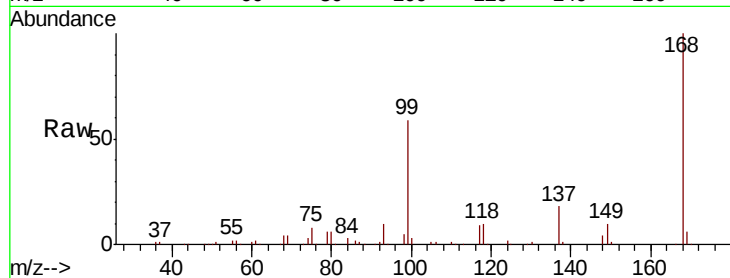
Tot Ion: 75 Resp: 14397

Ion Ratio Lower Upper

75 100

110 9.8 17.6 52.9#

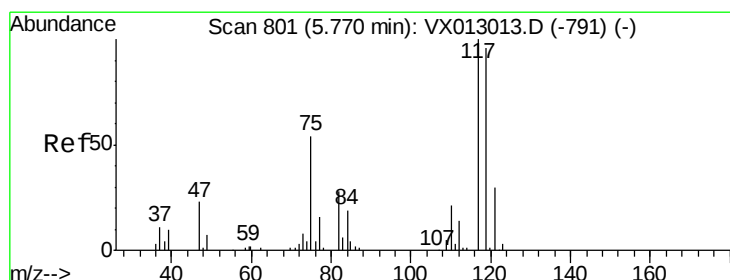
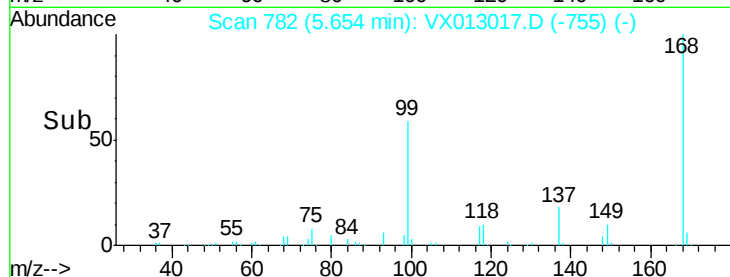
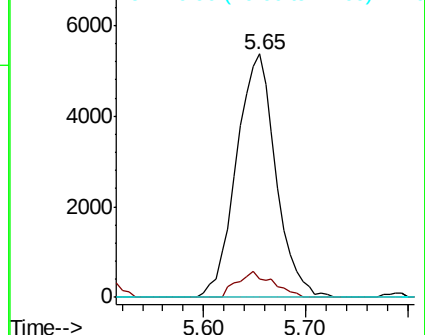
77 0.0 24.4 36.6#



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: 7.151 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

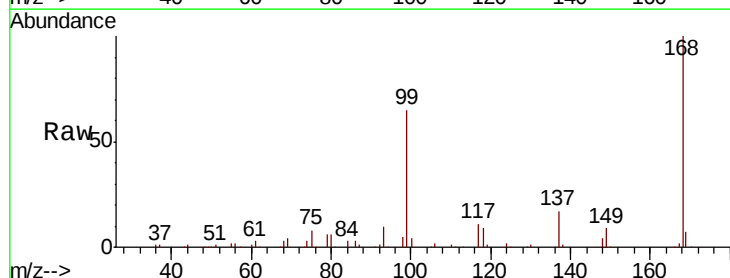
Tgt Ion: 117 Resp: 18085

Ion Ratio Lower Upper

117 100

119 6.5 74.5 111.7#

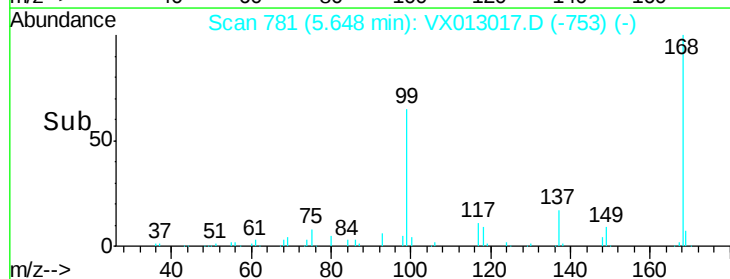
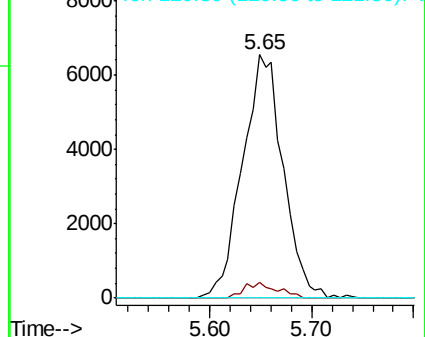
121 0.0 24.2 36.4#

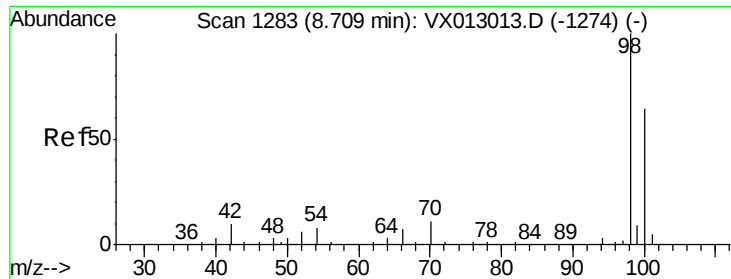


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 52.251 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

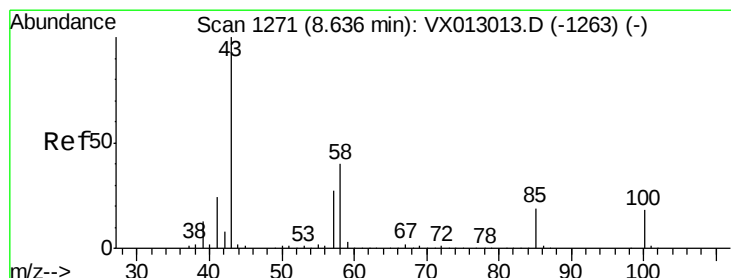
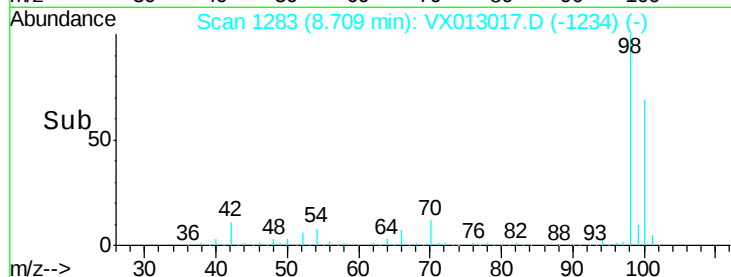
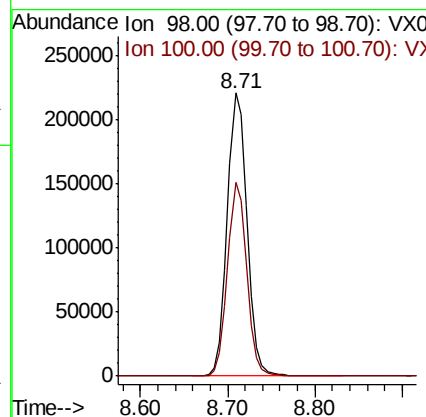
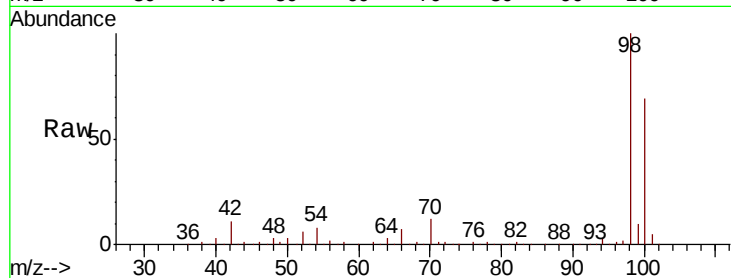
HH-WATER

Tot Ion: 98 Resp: 345659

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.2



#51

4-Methyl-2-Pentanone

Concen: 0.341 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX013017.D

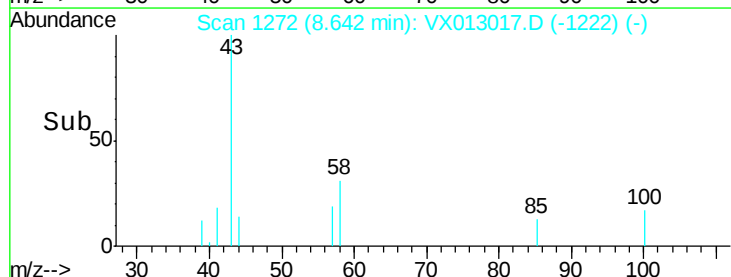
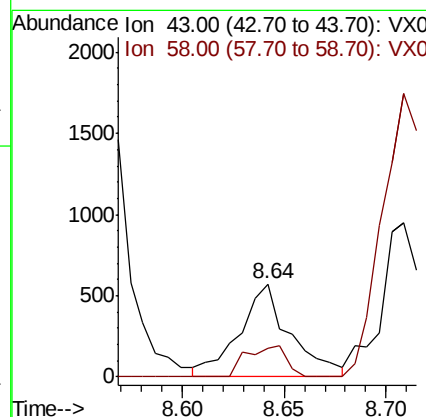
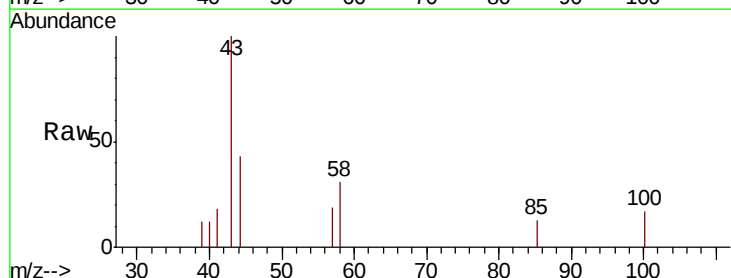
Acq: 11 Oct 2019 15:33

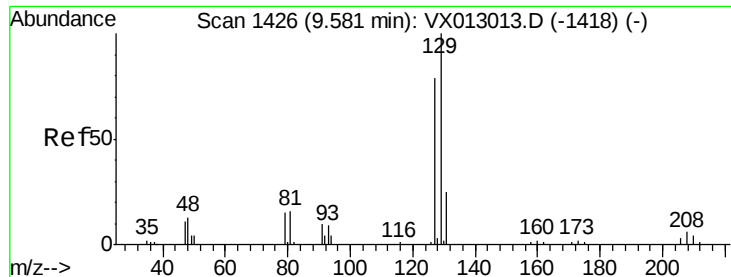
Tgt Ion: 43 Resp: 991

Ion Ratio Lower Upper

43 100

58 26.5 32.4 48.6#

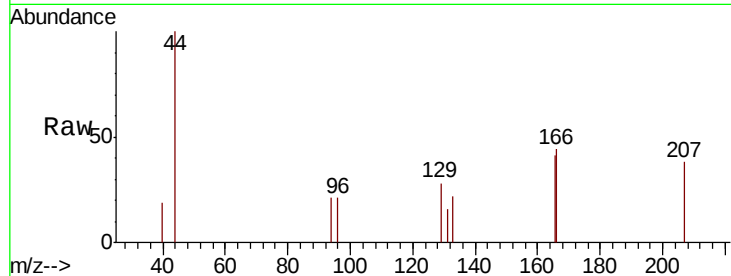




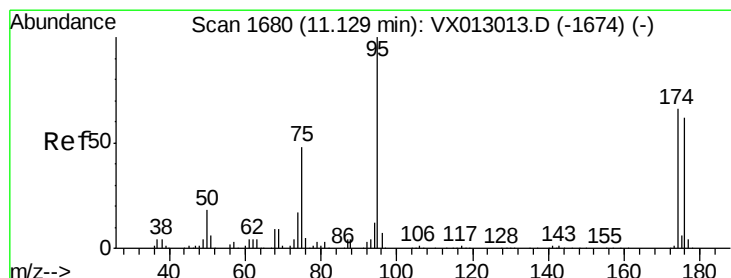
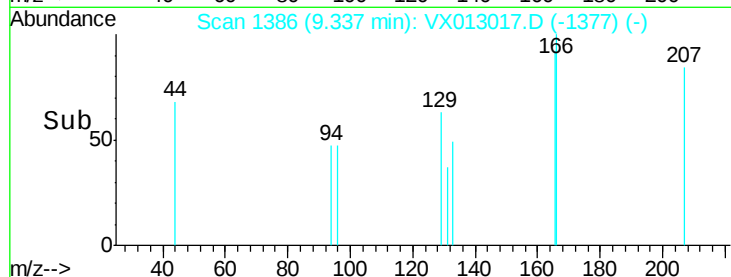
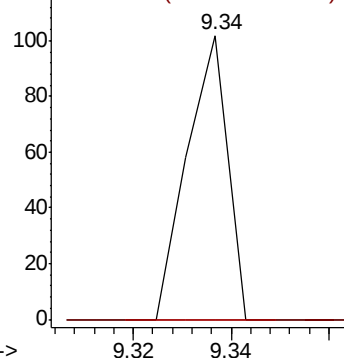
#60
Dibromochloromethane
Concen: 1.883 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. -0.24 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

Instrument :
MSVOA_X
ClientSampleId :
HH-WATER

Tot Ion:129 Resp: 59
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

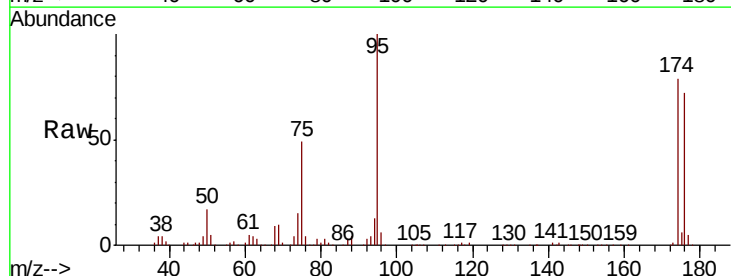


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

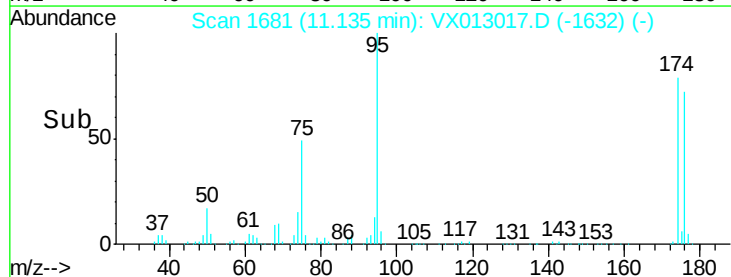
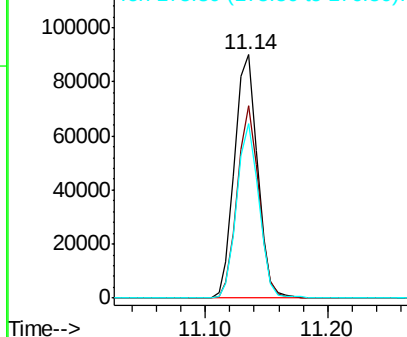


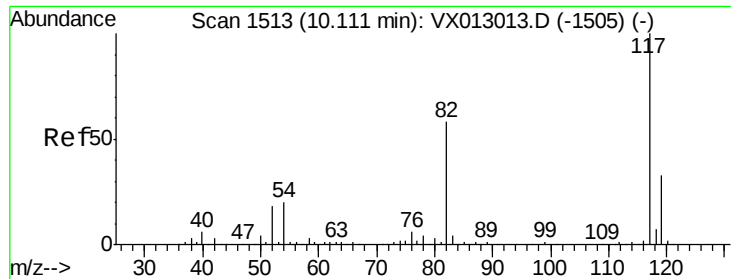
#62
4-Bromofluorobenzene
Concen: 45.583 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

Tgt Ion: 95 Resp: 117168
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.4
176 68.7 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

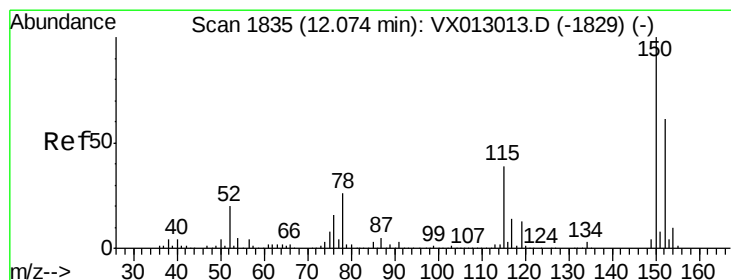
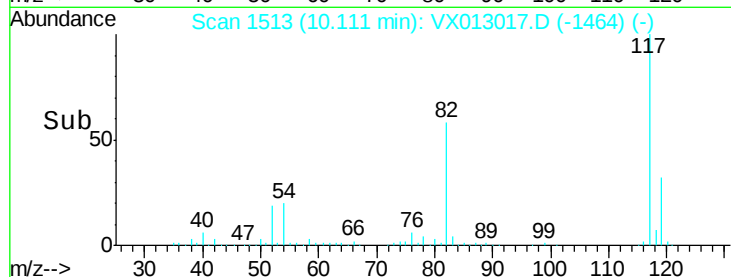
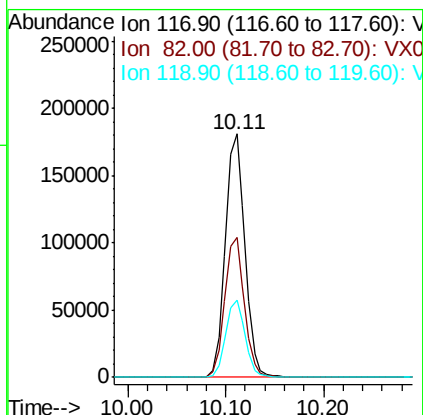
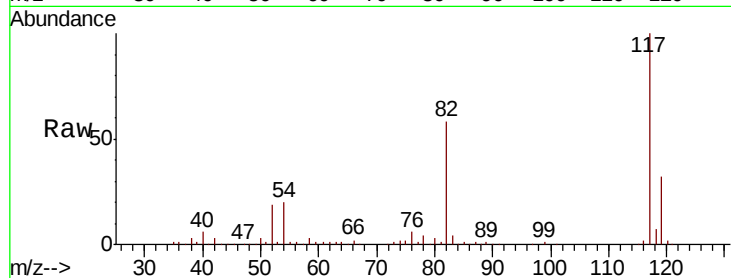




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

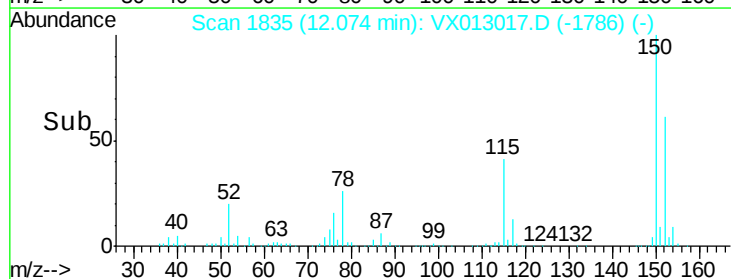
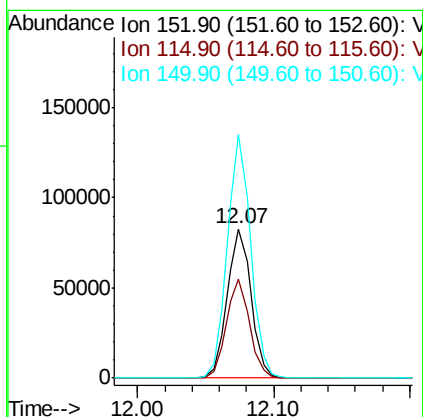
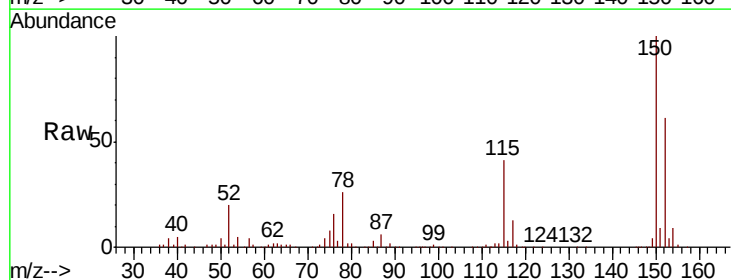
Instrument :
MSVOA_X
ClientSampleId :
HH-WATER

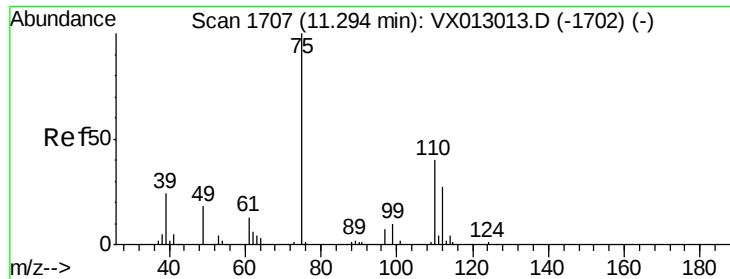
Tot Ion:117 Resp: 251464
Ion Ratio Lower Upper
117 100
82 57.7 44.1 66.1
119 31.8 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013017.D
Acq: 11 Oct 2019 15:33

Tgt Ion:152 Resp: 100465
Ion Ratio Lower Upper
152 100
115 64.6 44.5 133.5
150 160.1 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 26.314 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

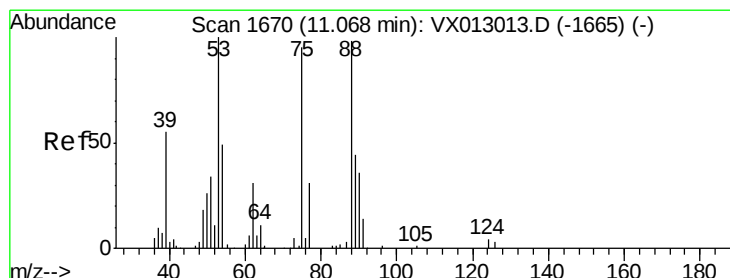
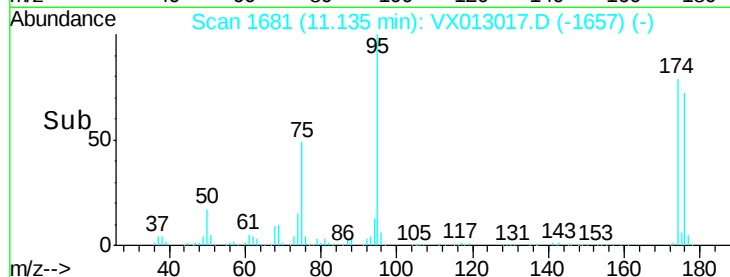
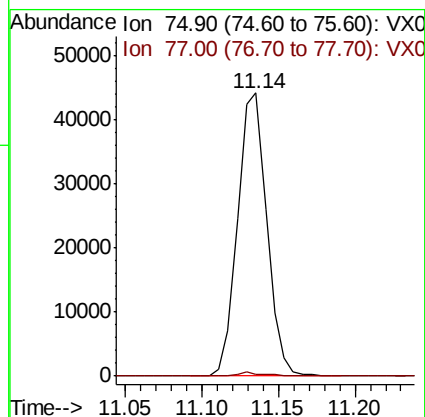
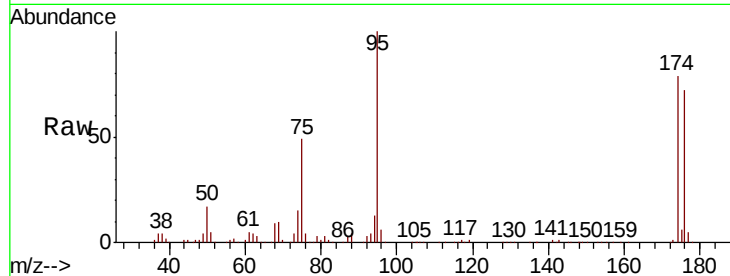
HH-WATER

Tot Ion: 75 Resp: 58636

Ion Ratio Lower Upper

75 100

77 1.4 22.9 68.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.223 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

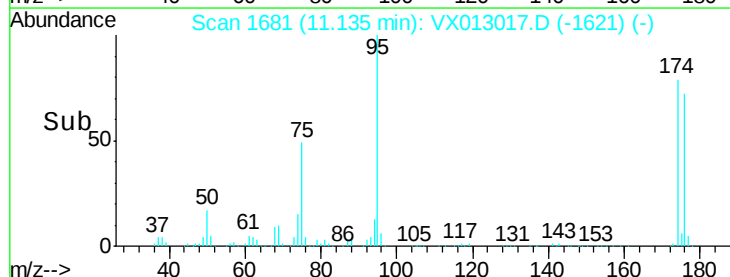
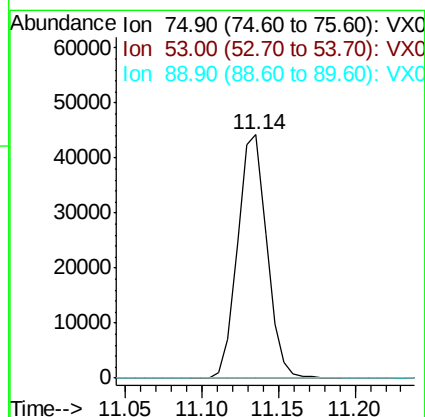
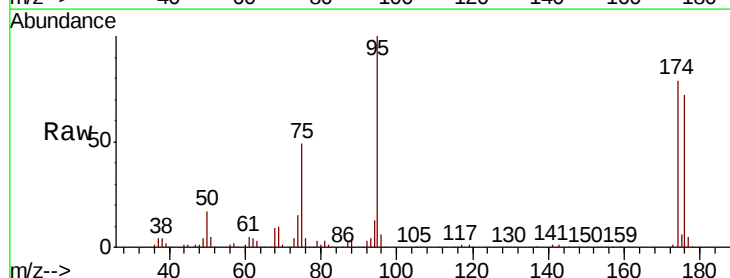
Tgt Ion: 75 Resp: 58636

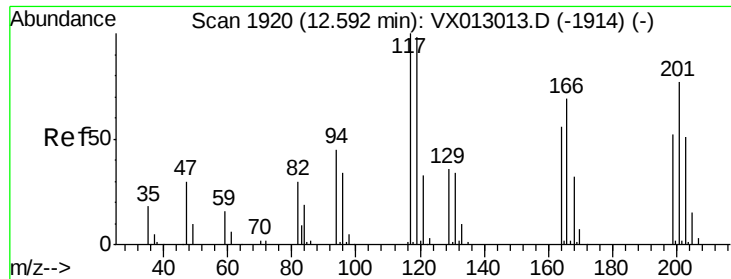
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#





#90

Hexachloroethane

Concen: 2.138 ug/l

RT: 12.82 min Scan# 1958

Delta R.T. 0.23 min

Lab File: VX013017.D

Acq: 11 Oct 2019 15:33

Instrument :

MSVOA_X

ClientSampleId :

HH-WATER

Tot Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#

