

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003311.D
 Acq On : 11 Jul 2018 04:10
 Operator : JC/MD
 Sample : J3914-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SMH

Quant Time: Jul 11 04:59:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368066	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194512	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	166648	40.62	ug/l	0.00
Spiked Amount			Recovery	=	81.24%	
35) Dibromofluoromethane	5.51	113	142050	35.92	ug/l	0.00
Spiked Amount			Recovery	=	71.84%	
50) Toluene-d8	8.72	98	518389	36.91	ug/l	0.00
Spiked Amount			Recovery	=	73.82%	
62) 4-Bromofluorobenzene	11.14	95	180809	34.84	ug/l	0.00
Spiked Amount			Recovery	=	69.68%	

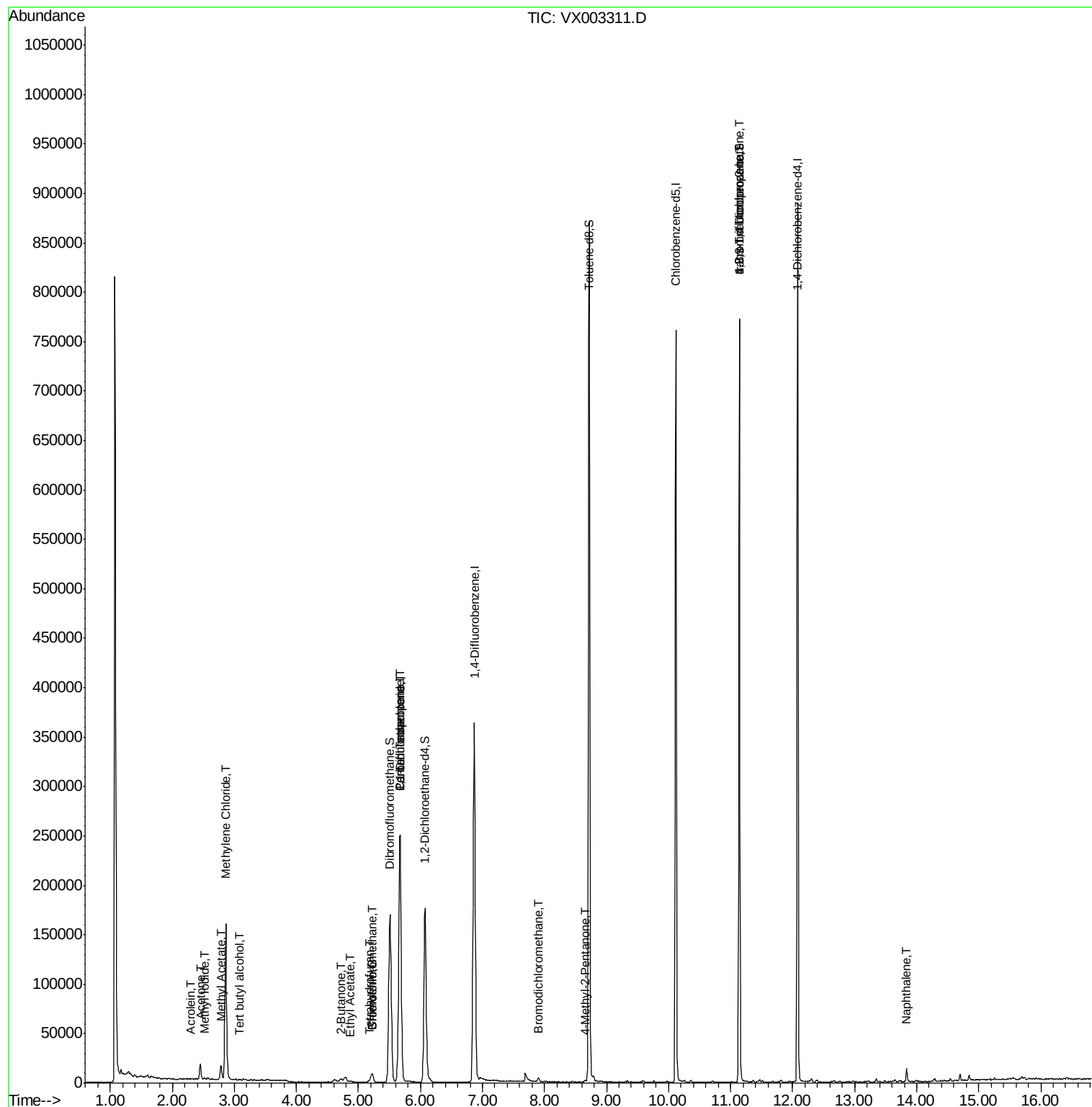
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1361	Below Cal		93
10) Methyl Iodide	2.52	142	1515	6.03	ug/l	90
11) Tert butyl alcohol	3.08	59	387	0.52	ug/l #	90
13) Acrolein	2.29	56	230	0.38	ug/l #	72
16) Acetone	2.45	43	17902	12.29	ug/l	98
18) Methyl Acetate	2.78	43	18017	4.38	ug/l	96
20) Methylene Chloride	2.86	84	72558	23.94	ug/l	93
25) 2-Butanone	4.72	43	5821	2.26	ug/l	97
28) Bromochloromethane	5.22	49	901	0.31	ug/l #	13
29) Tetrahydrofuran	5.18	42	1907	1.14	ug/l	93
30) Chloroform	5.21	83	9410	1.49	ug/l	93
36) 1,1-Dichloropropene	5.67	75	16114	3.09	ug/l #	51
37) Ethyl Acetate	4.87	43	1264	0.22	ug/l #	87
38) Carbon Tetrachloride	5.67	117	22704	3.98	ug/l #	16
47) Bromodichloromethane	7.90	83	2115	0.42	ug/l #	83
51) 4-Methyl-2-Pentanone	8.65	43	1287	0.23	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	87329	20.77	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87329	67.90	ug/l #	7
95) Naphthalene	13.83	128	7941	0.51	ug/l	95

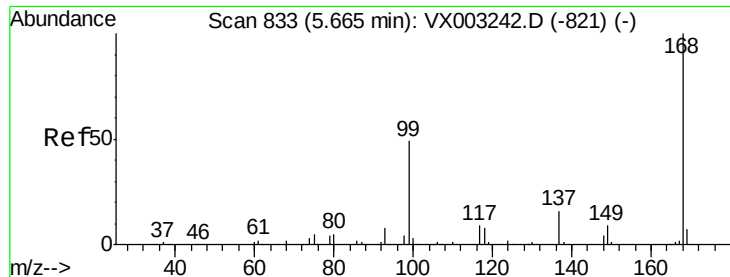
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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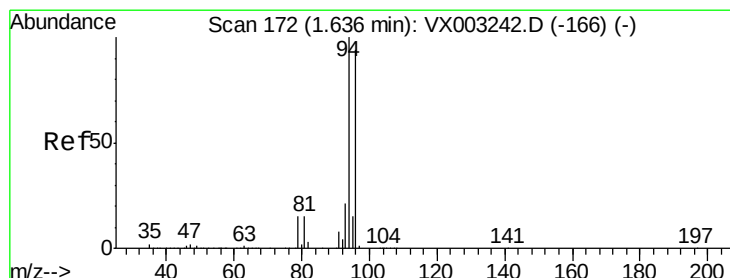
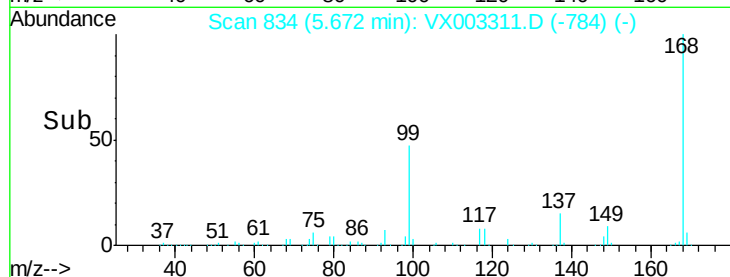
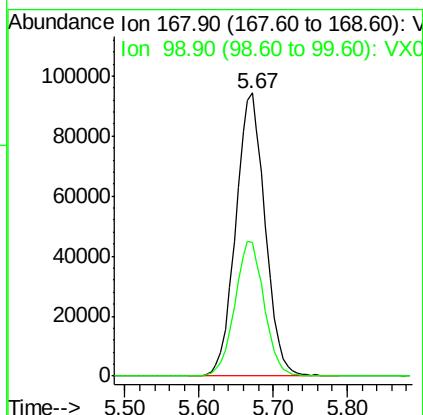
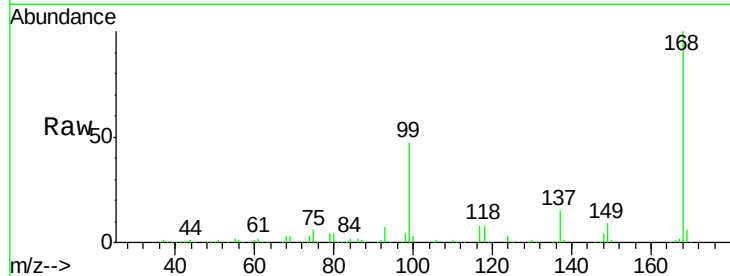




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.01 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

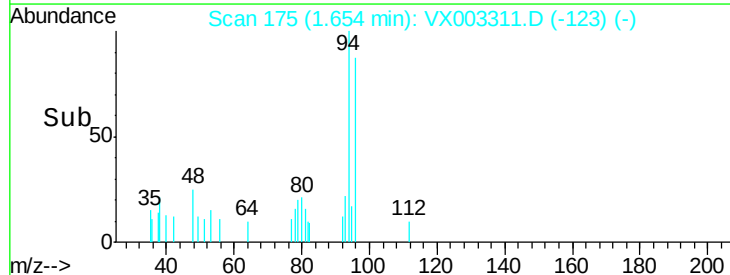
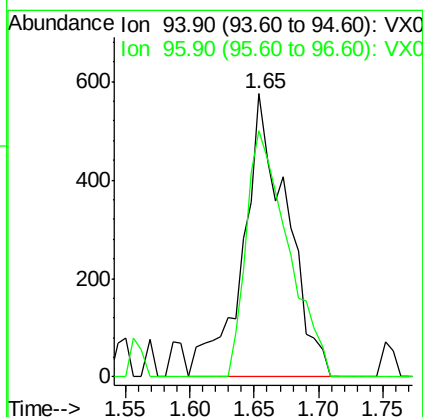
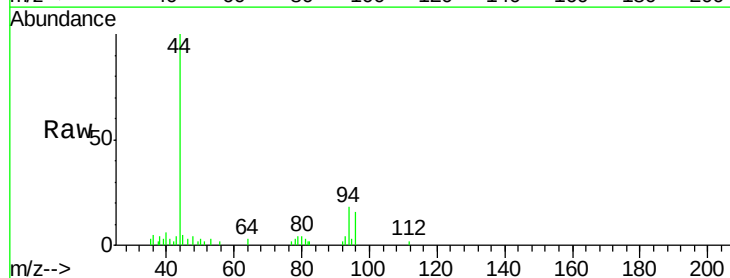
Instrument :
MSVOA_X
ClientSampleId :
SMH

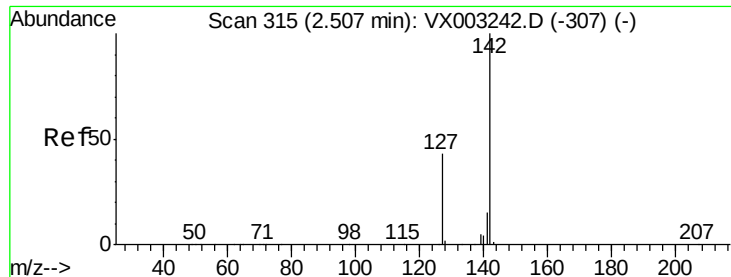
Tot Ion:168 Resp: 260693
Ion Ratio Lower Upper
168 100
99 47.2 39.3 58.9



#5
Bromomethane
Concen: Below Cal
RT: 1.65 min Scan# 175
Delta R.T. 0.02 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion: 94 Resp: 1361
Ion Ratio Lower Upper
94 100
96 87.0 74.9 112.3

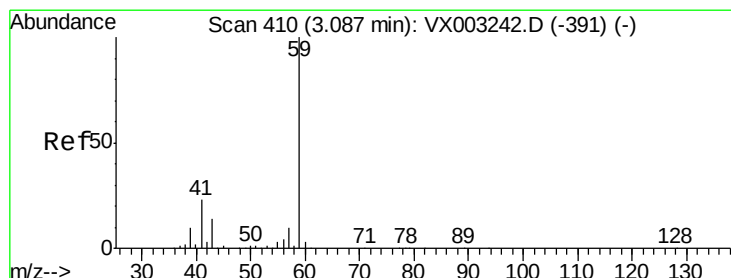
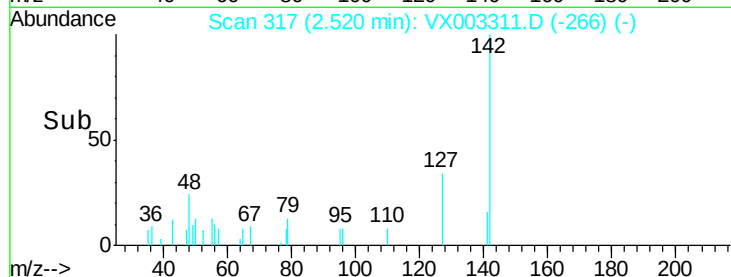
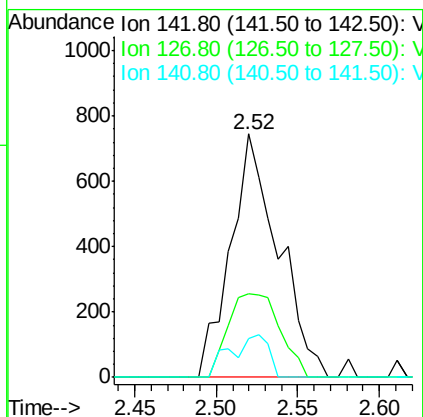
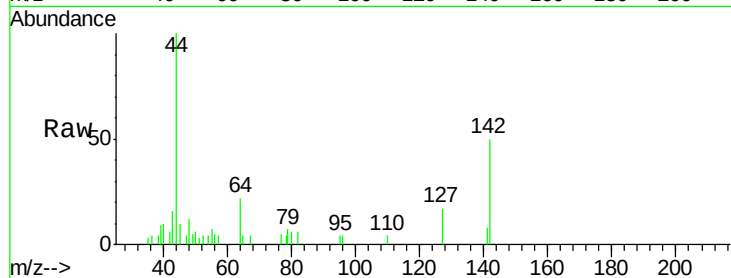




#10
Methvl Iodide
Concen: 6.03 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

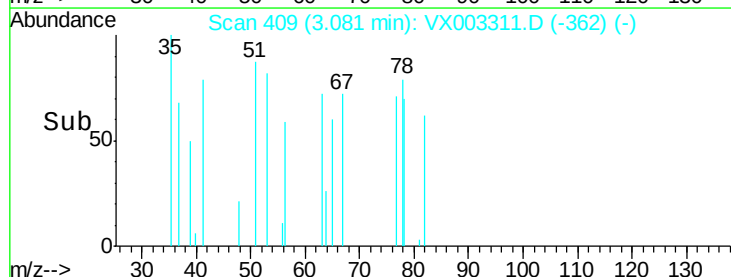
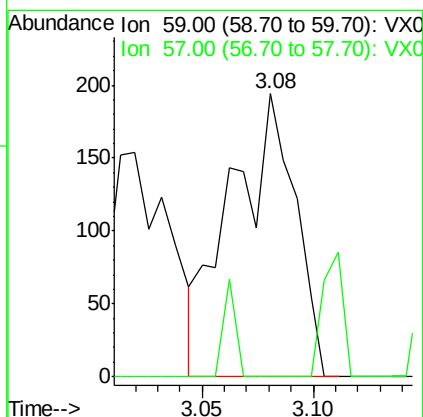
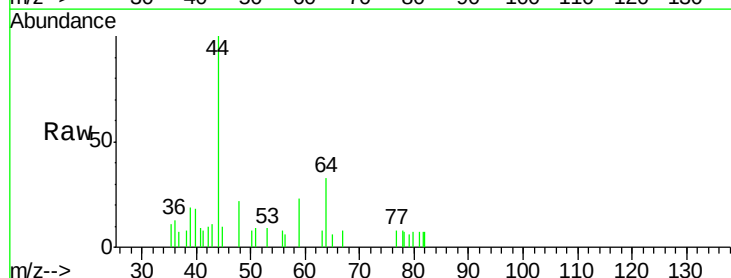
Instrument :
MSVOA_X
ClientSampleId :
SMH

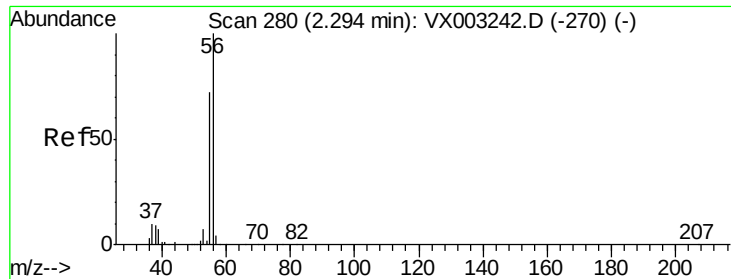
Tot Ion:142 Resp: 1515
Ion Ratio Lower Upper
142 100
127 37.4 36.6 55.0
141 14.1 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.52 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion: 59 Resp: 387
Ion Ratio Lower Upper
59 100
57 6.5 8.2 12.2#





#13

Acrolein

Concen: 0.38 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampleId :

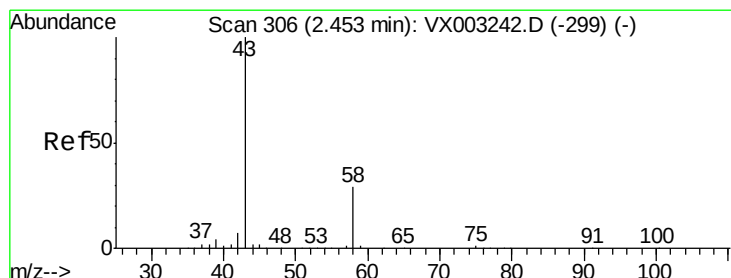
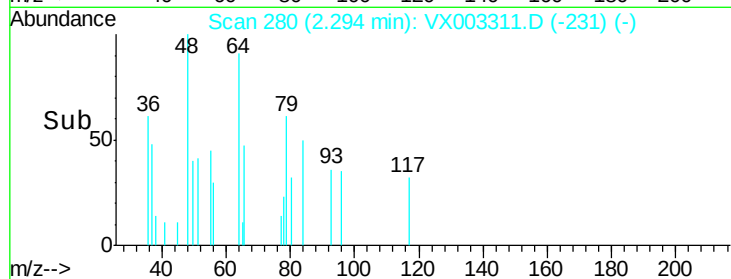
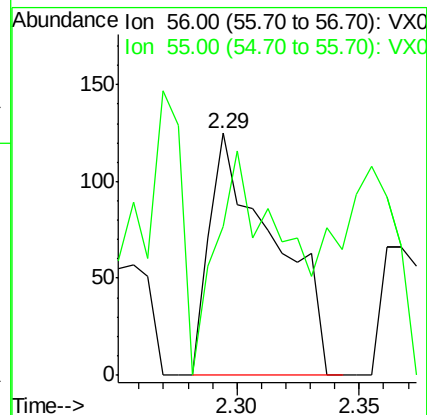
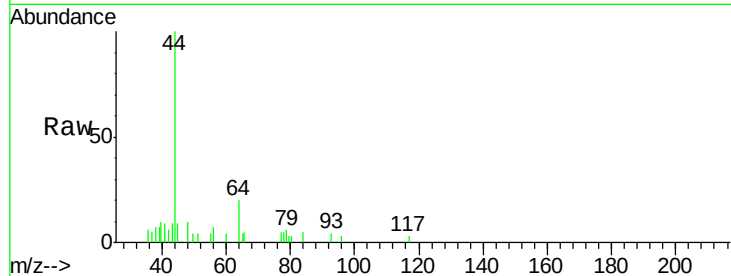
SMH

Tot Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 94.8 57.0 85.4#



#16

Acetone

Concen: 12.29 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003311.D

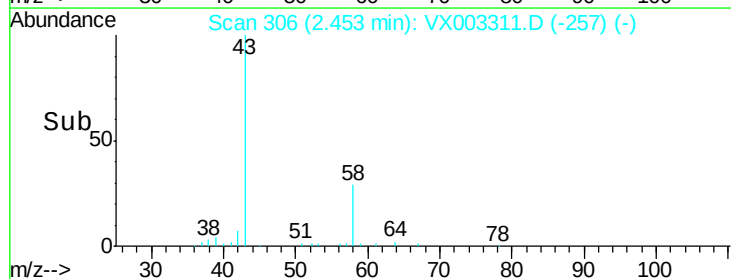
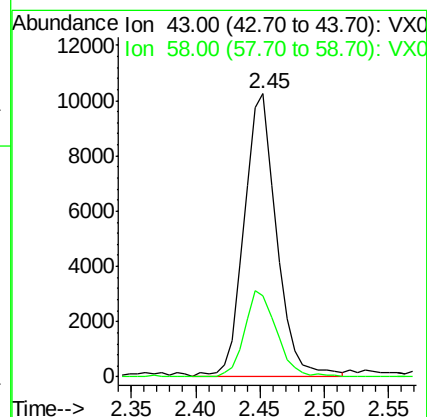
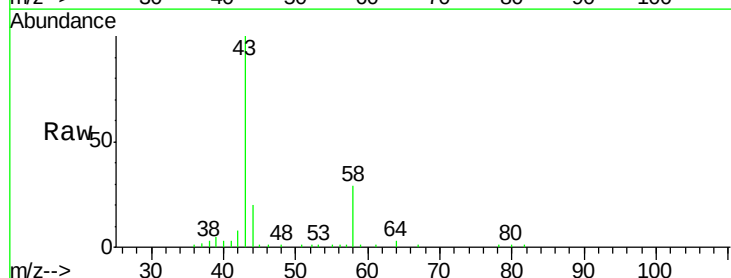
Acq: 11 Jul 2018 04:10

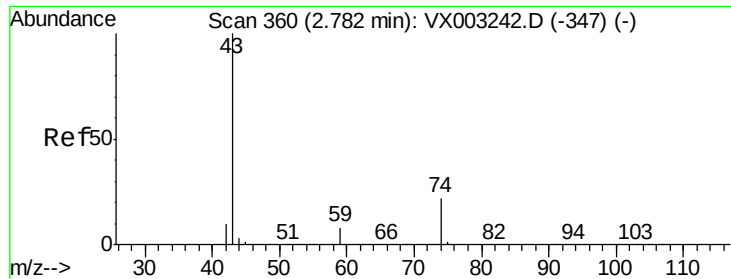
Tgt Ion: 43 Resp: 17902

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1

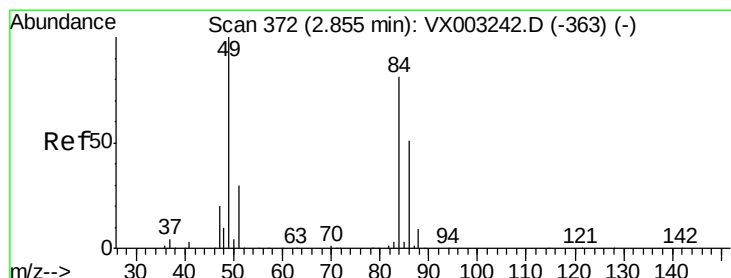
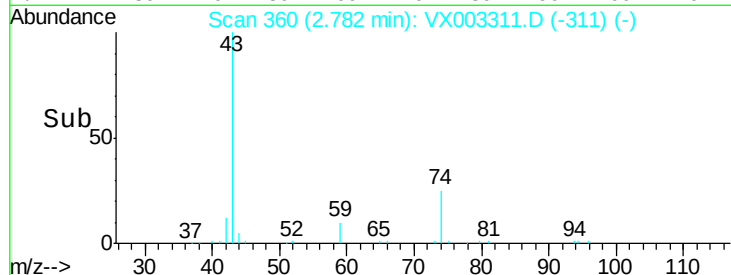
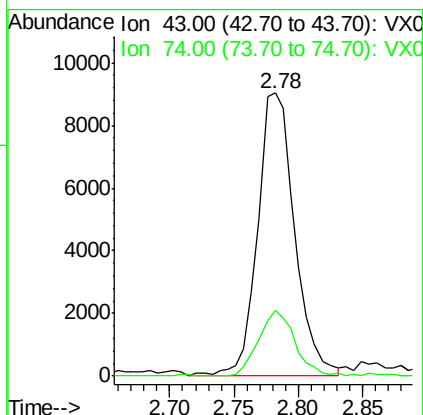
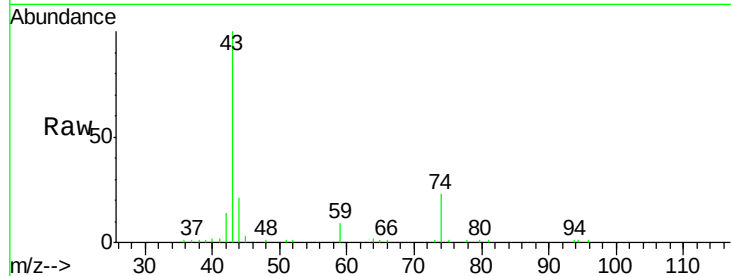




#18
Methvl Acetate
Concen: 4.38 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

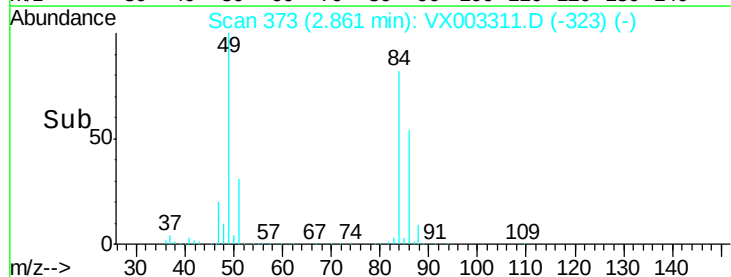
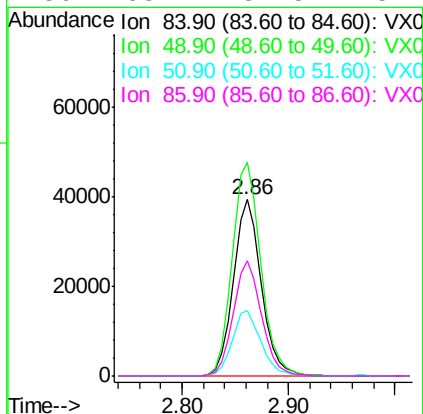
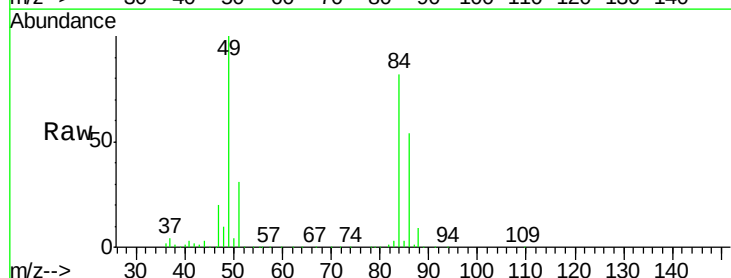
Instrument :
MSVOA_X
ClientSampleId :
SMH

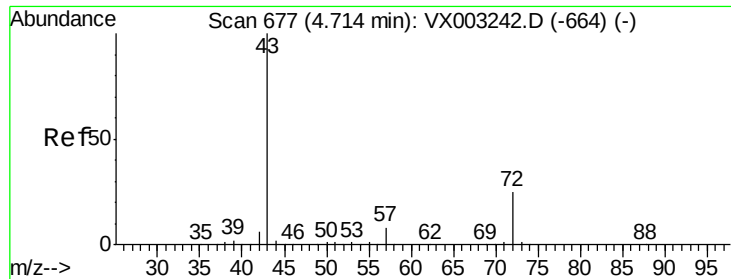
Tot Ion: 43 Resp: 18017
Ion Ratio Lower Upper
43 100
74 22.8 16.7 25.1



#20
Methylene Chloride
Concen: 23.94 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion: 84 Resp: 72558
Ion Ratio Lower Upper
84 100
49 121.3 107.8 161.6
51 37.2 32.8 49.2
86 65.2 52.5 78.7

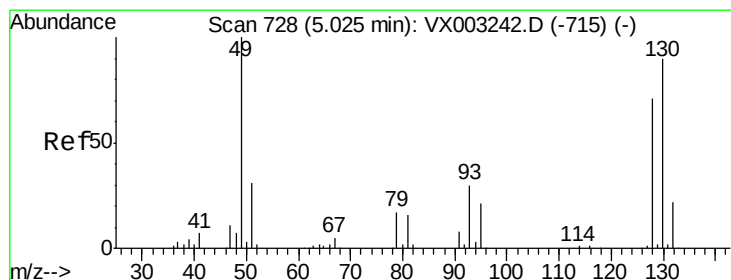
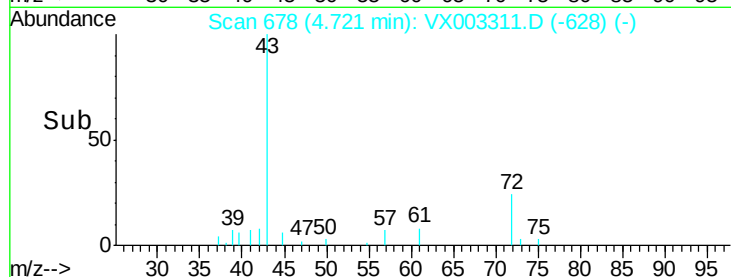
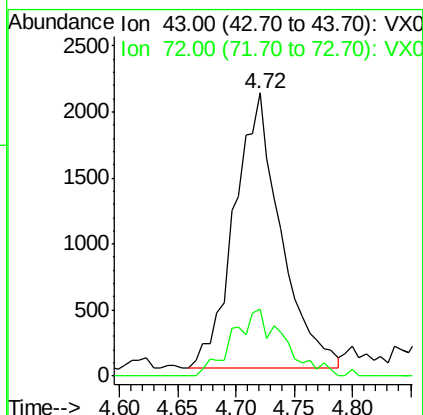
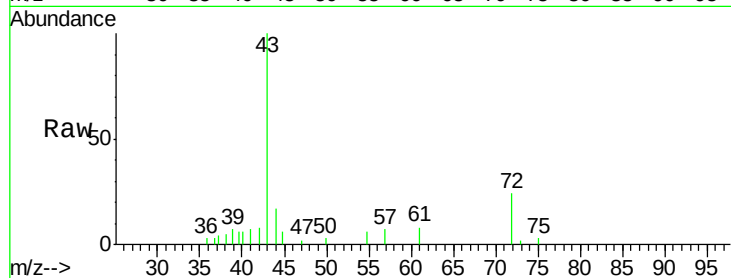




#25
2-Butanone
Concen: 2.26 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

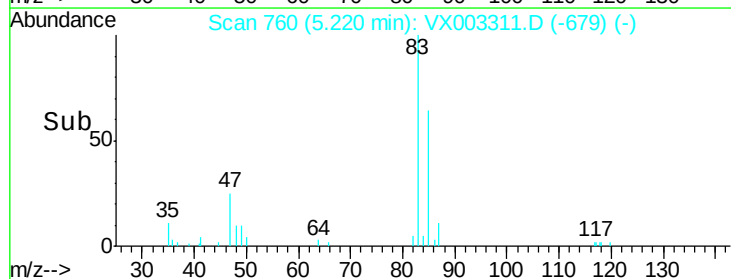
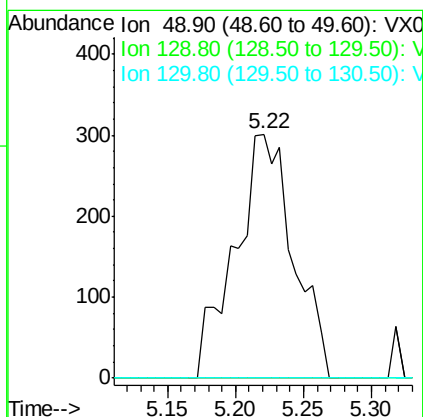
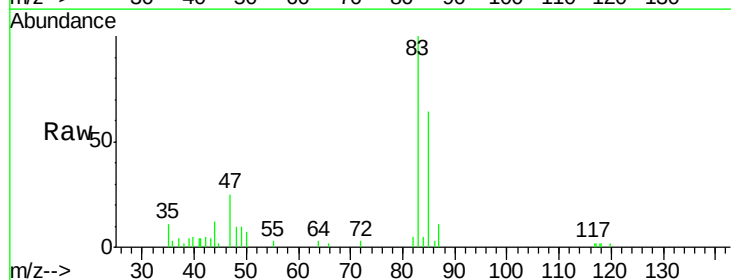
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MSVOA_X
ClientSampleId :
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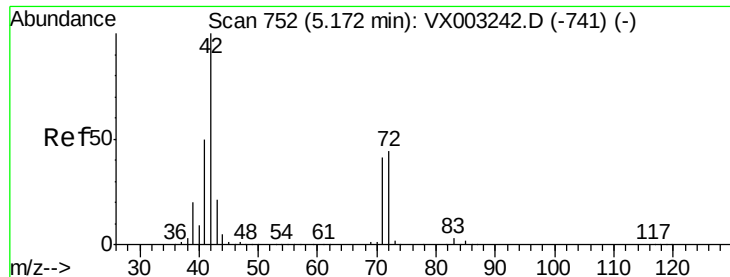
Tot Ion: 43 Resp: 5821
Ion Ratio Lower Upper
43 100
72 24.4 18.5 27.7



#28
Bromochloromethane
Concen: 0.31 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.20 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion: 49 Resp: 901
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#





#29

Tetrahydrofuran

Concen: 1.14 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampled :

SMH

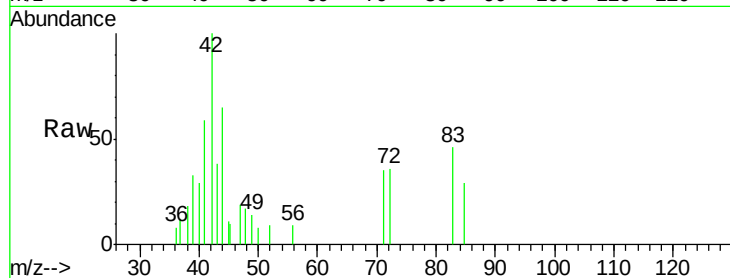
Tot Ion: 42 Resp: 1907

Ion Ratio Lower Upper

42 100

72 45.9 32.0 48.0

71 40.0 30.1 45.1



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

5.18

600

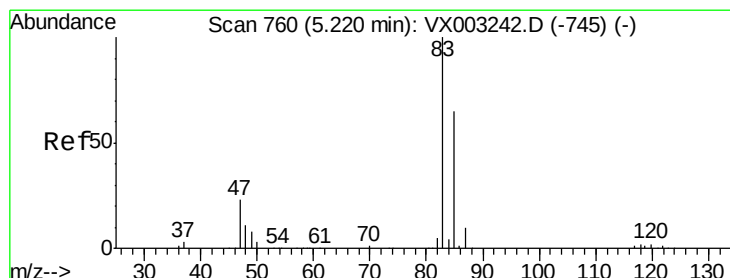
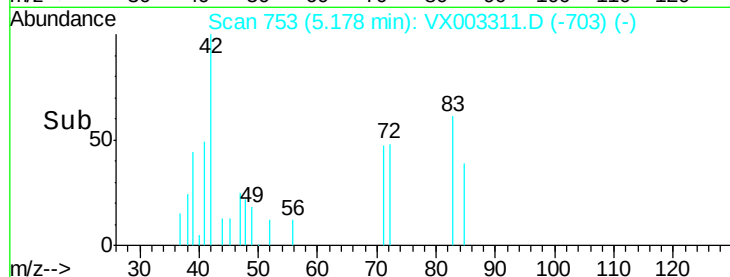
400

200

0

5.10 5.15 5.20 5.25

Time-->



#30

Chloroform

Concen: 1.49 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX003311.D

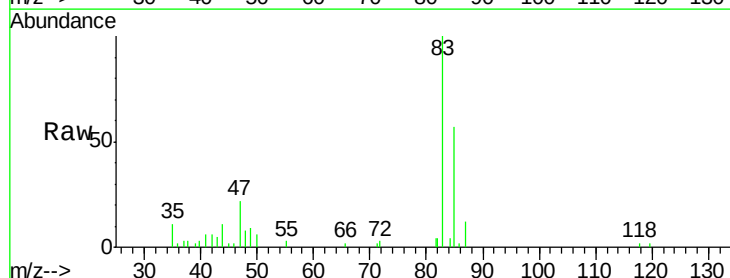
Acq: 11 Jul 2018 04:10

Tgt Ion: 83 Resp: 9410

Ion Ratio Lower Upper

83 100

85 57.3 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

3000

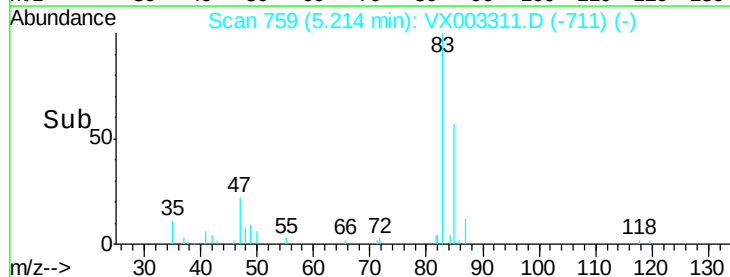
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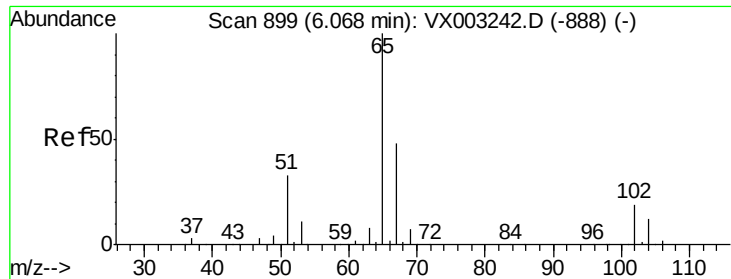
1000

0

5.10 5.20 5.30

Time-->

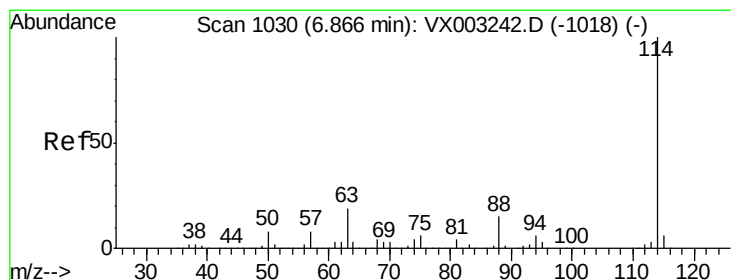
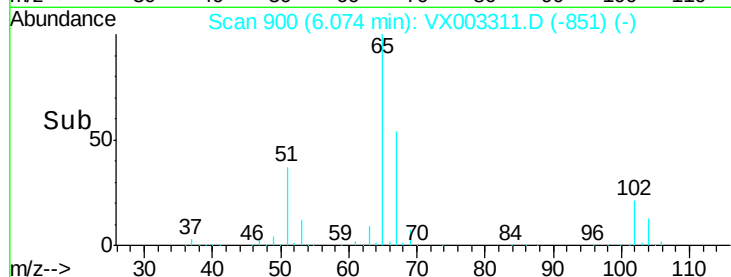
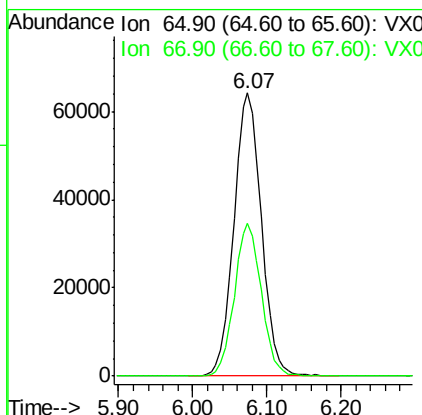
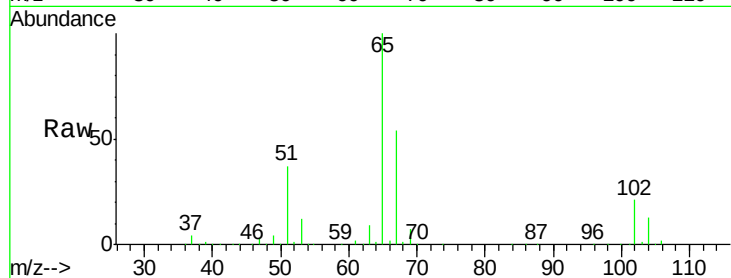




#33
 1,2-Dichloroethane-d4
 Concen: 40.62 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003311.D
 Acq: 11 Jul 2018 04:10

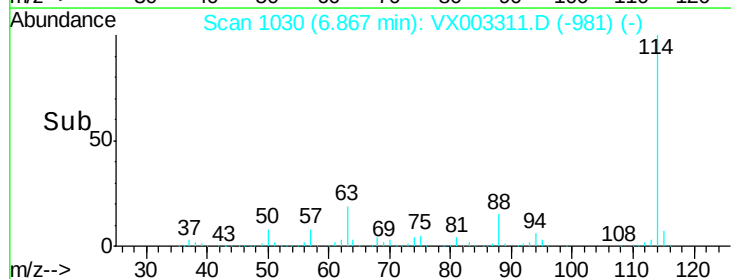
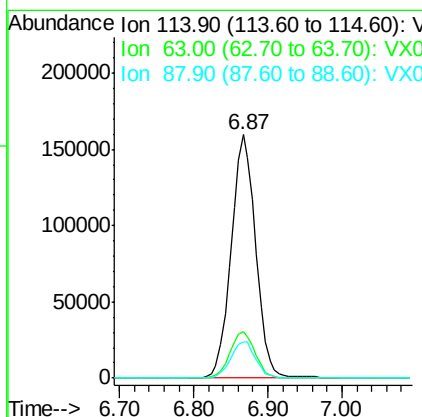
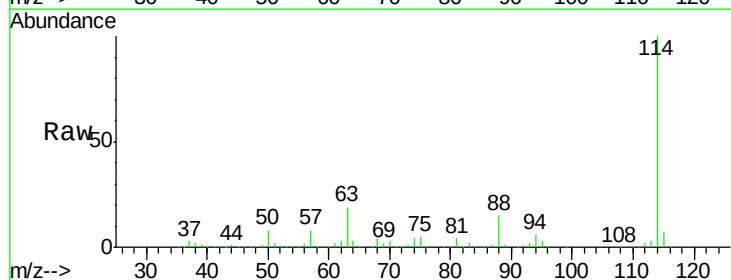
Instrument :
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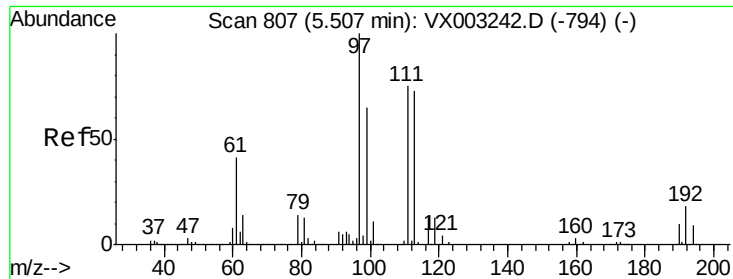
Tot Ion: 65 Resp: 166648
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003311.D
 Acq: 11 Jul 2018 04:10

Tgt Ion: 114 Resp: 368066
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 35.92 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampleId :

SMH

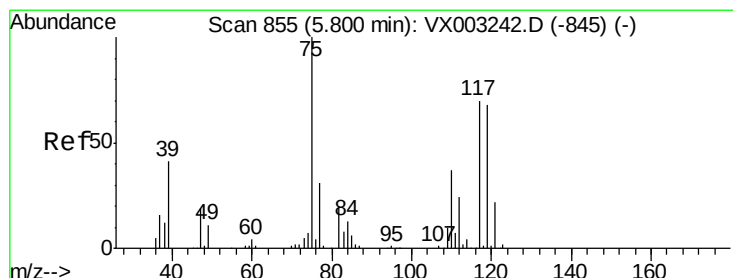
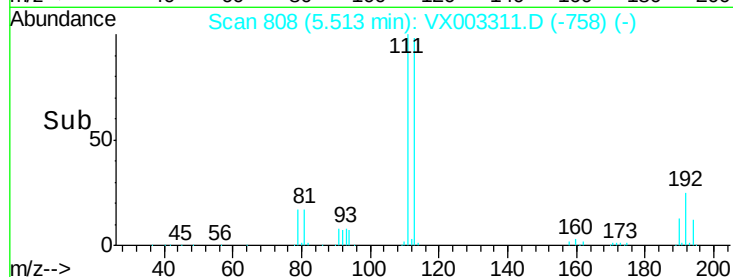
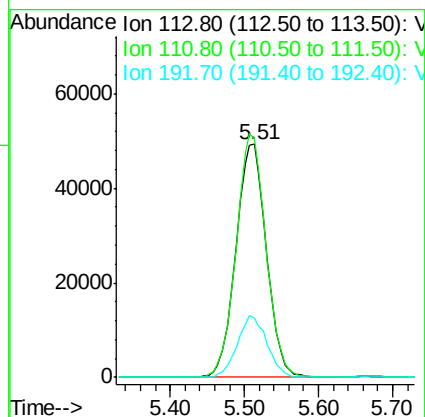
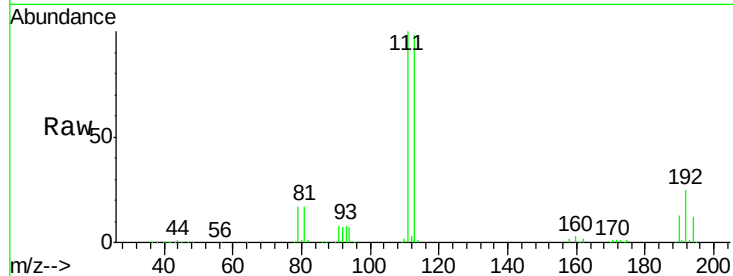
Tot Ion:113 Resp: 142050

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

192 25.7 19.1 28.7



#36

1,1-Dichloropropene

Concen: 3.09 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

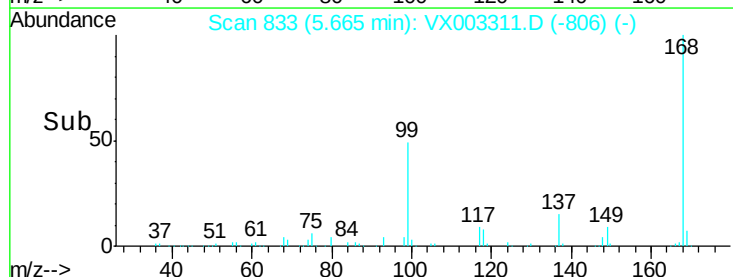
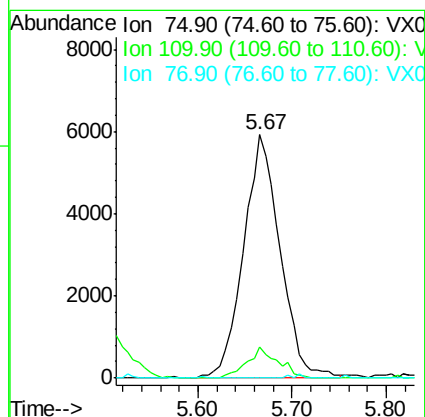
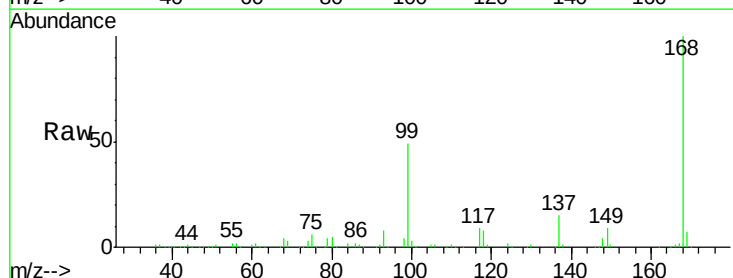
Tgt Ion: 75 Resp: 16114

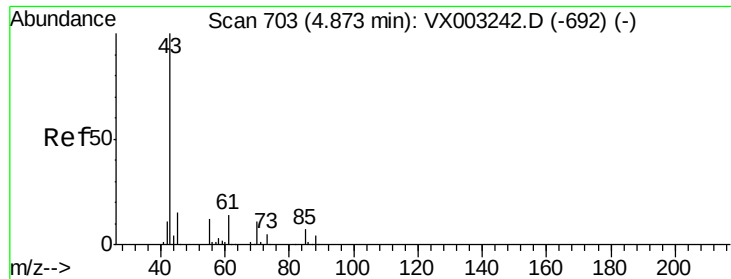
Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.4#

77 0.0 24.3 36.5#

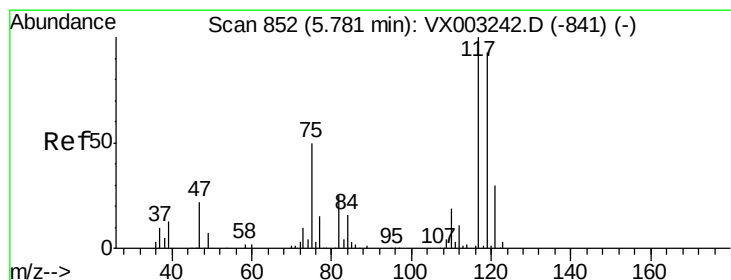
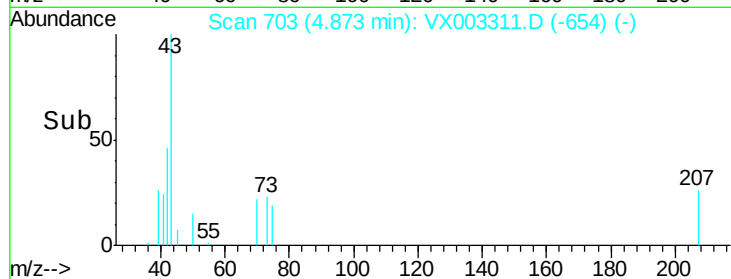
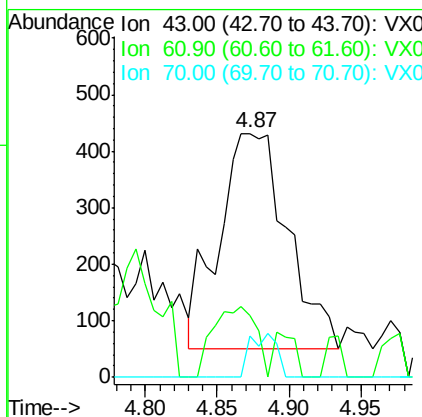
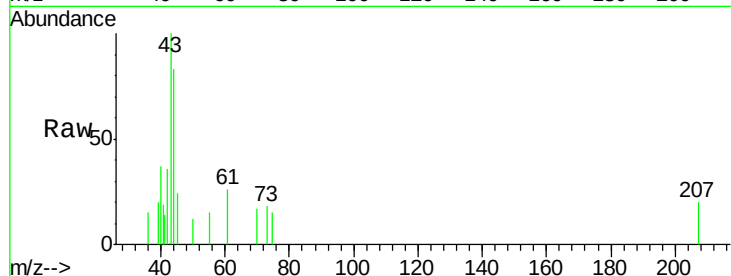




#37
Ethyl Acetate
Concen: 0.22 ug/l
RT: 4.87 min Scan# 703
Delta R.T. 0.00 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

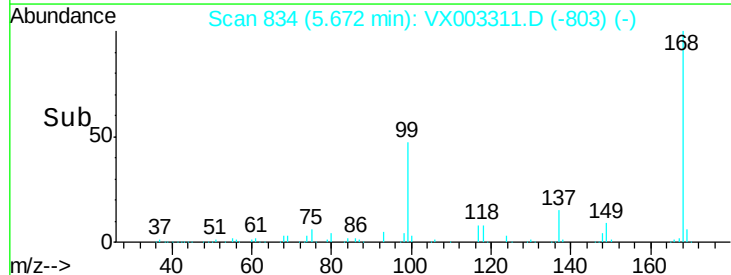
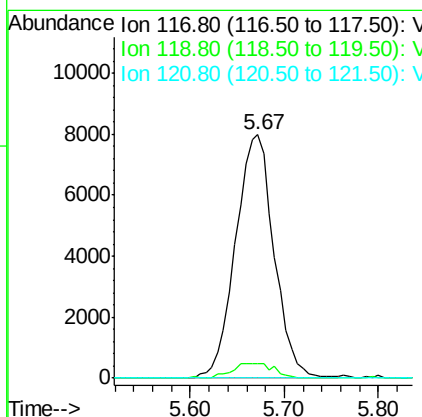
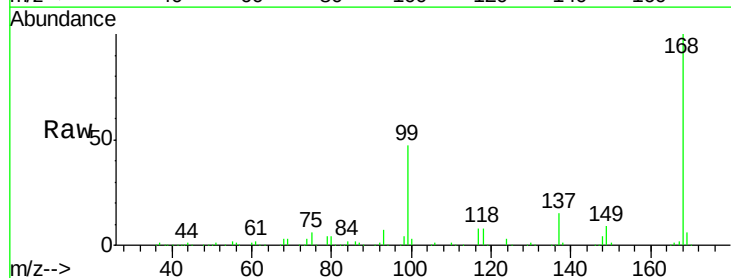
Instrument :
MSVOA_X
ClientSampled :
SMH

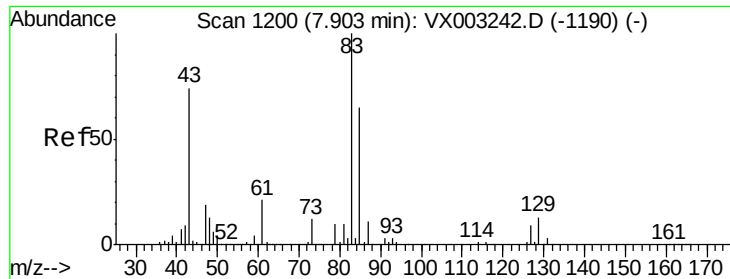
Tot Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
61 20.6 10.4 15.6#
70 7.8 7.6 11.4



#38
Carbon Tetrachloride
Concen: 3.98 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.11 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion: 117 Resp: 22704
Ion Ratio Lower Upper
117 100
119 5.8 77.4 116.0#
121 0.0 24.4 36.6#





#47

Bromodichloromethane

Concen: 0.42 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampled :

SMH

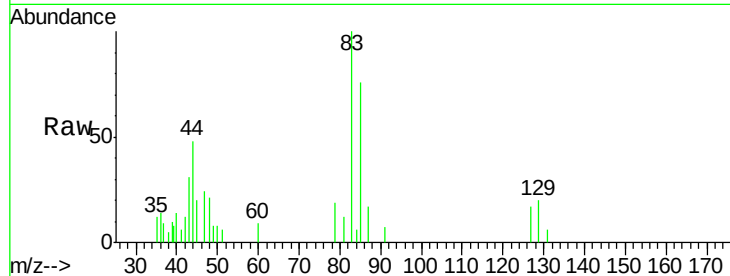
Tot Ion: 83 Resp: 2115

Ion Ratio Lower Upper

83 100

85 75.8 50.3 75.5#

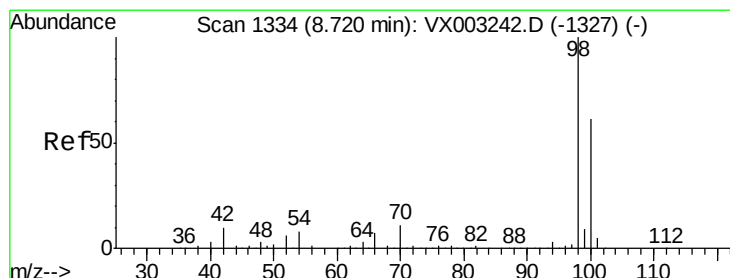
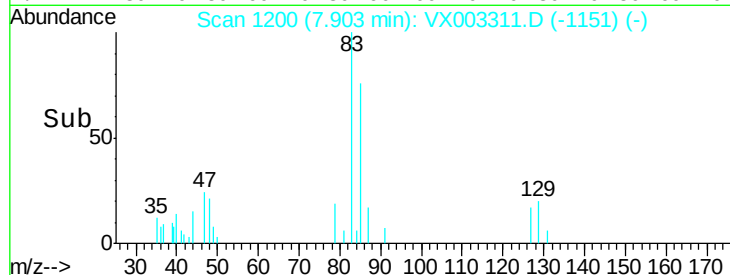
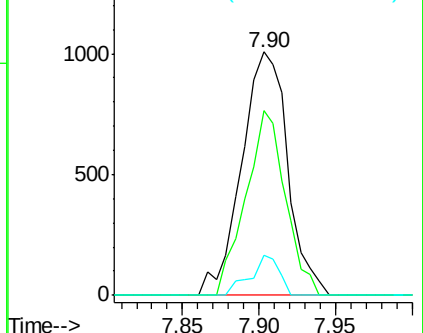
127 16.7 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 36.91 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003311.D

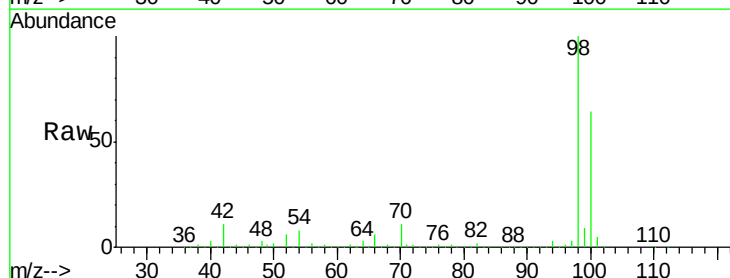
Acq: 11 Jul 2018 04:10

Tgt Ion: 98 Resp: 518389

Ion Ratio Lower Upper

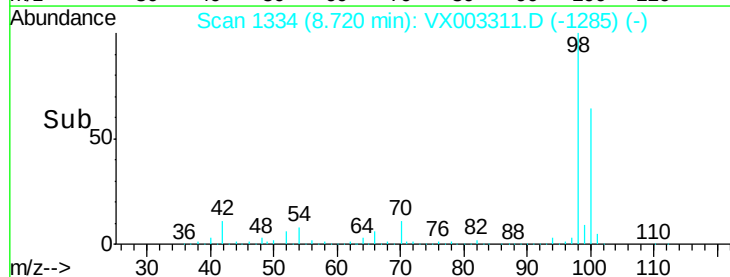
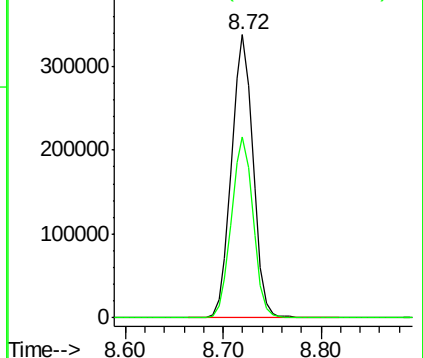
98 100

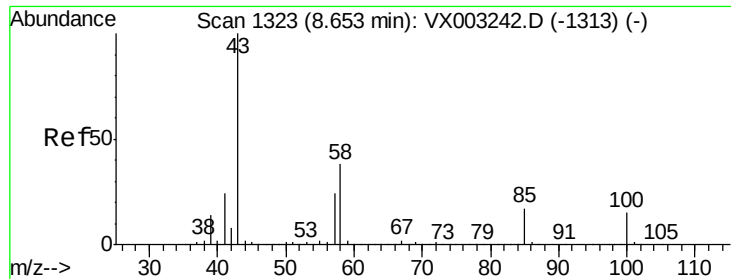
100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.23 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampled :

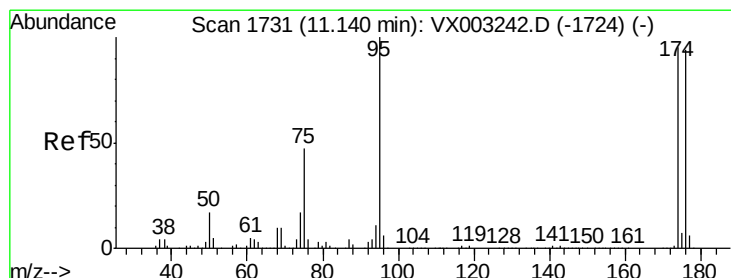
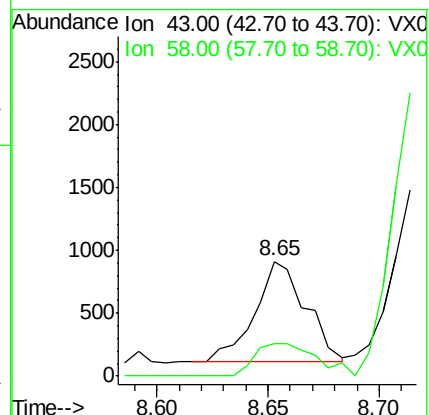
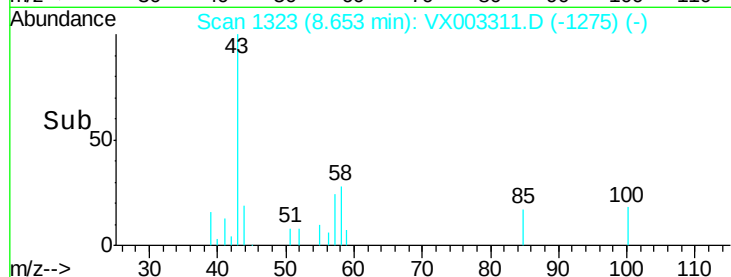
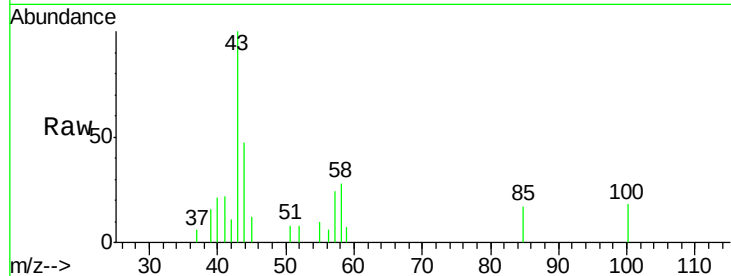
SMH

Tot Ion: 43 Resp: 1287

Ion Ratio Lower Upper

43 100

58 38.9 28.6 42.8



#62

4-Bromofluorobenzene

Concen: 34.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

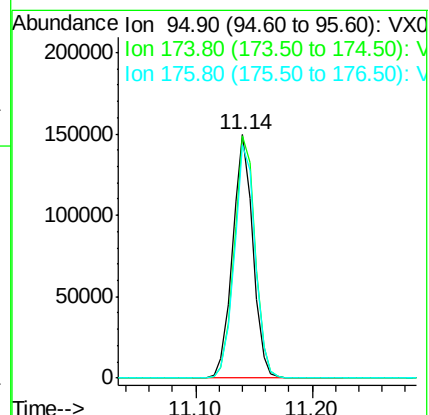
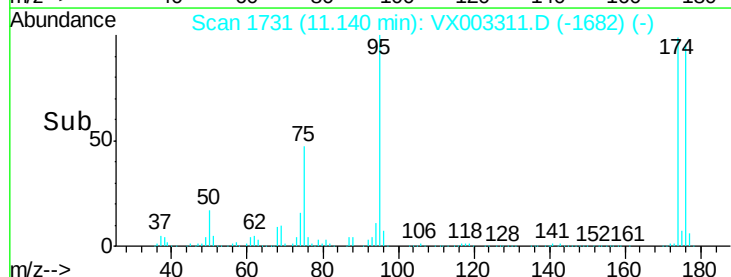
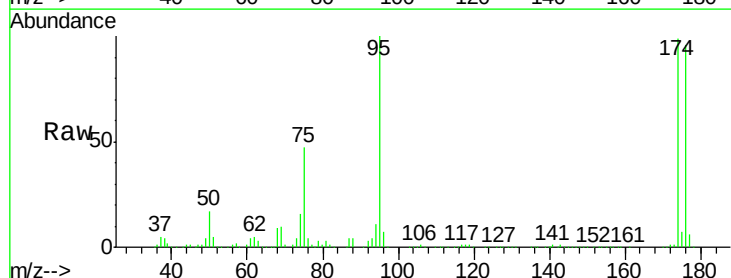
Tgt Ion: 95 Resp: 180809

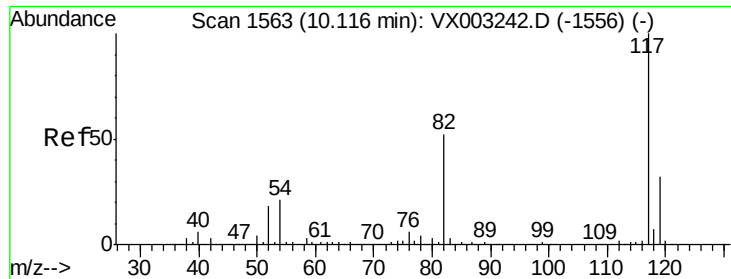
Ion Ratio Lower Upper

95 100

174 102.7 0.0 187.4

176 98.9 0.0 181.0

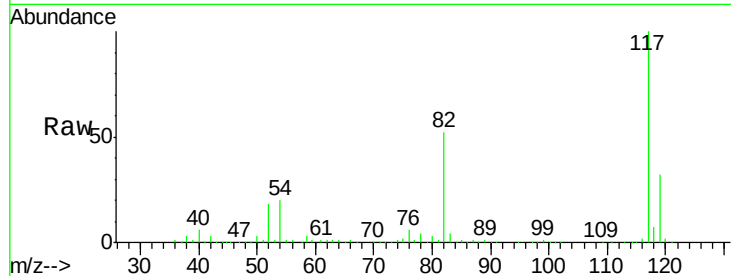




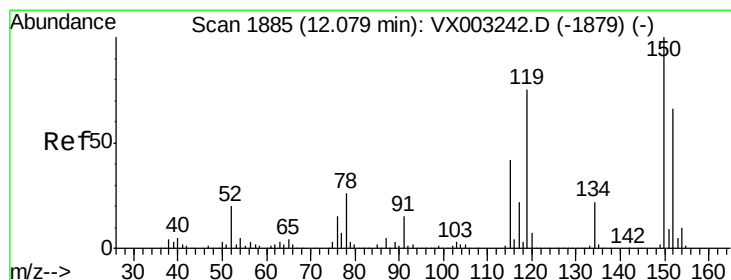
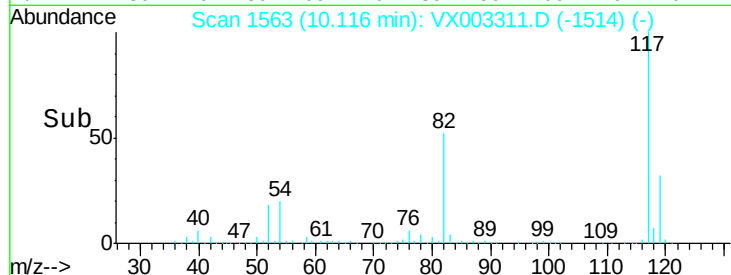
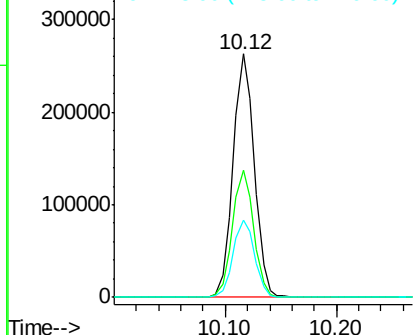
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Instrument :
MSVOA_X
ClientSampleId :
SMH

Tot Ion:117 Resp: 347253
Ion Ratio Lower Upper
117 100
82 52.2 45.0 67.4
119 31.8 25.8 38.6

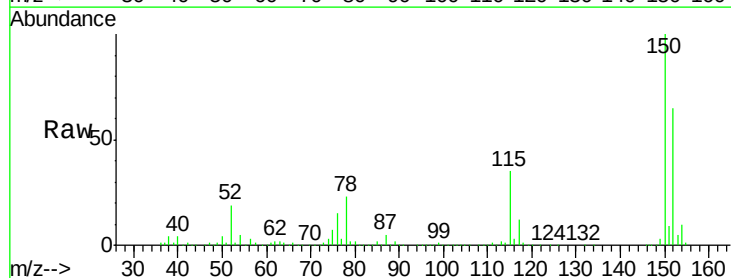


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

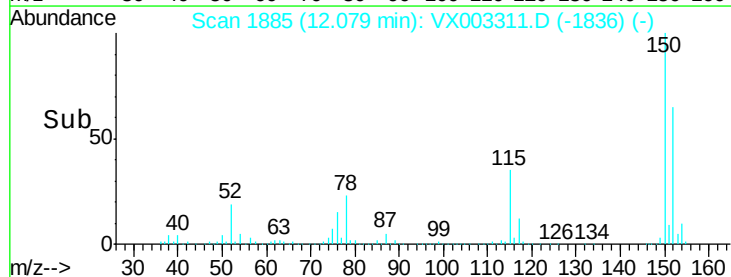
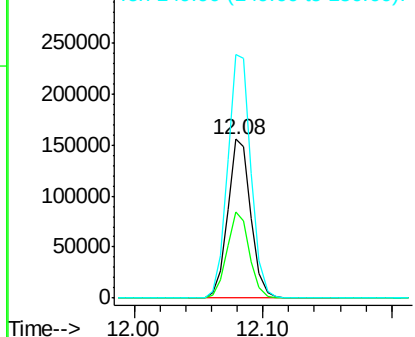


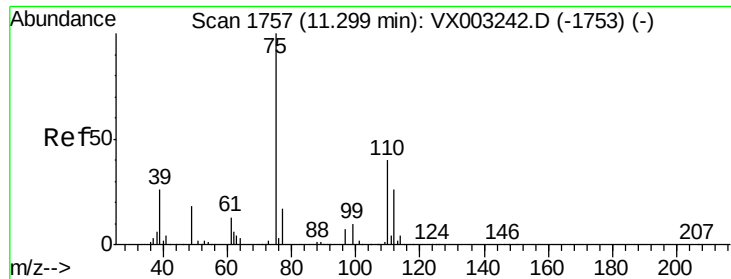
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX003311.D
Acq: 11 Jul 2018 04:10

Tgt Ion:152 Resp: 194512
Ion Ratio Lower Upper
152 100
115 53.1 40.1 120.2
150 155.5 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

Instrument :

MSVOA_X

ClientSampled :

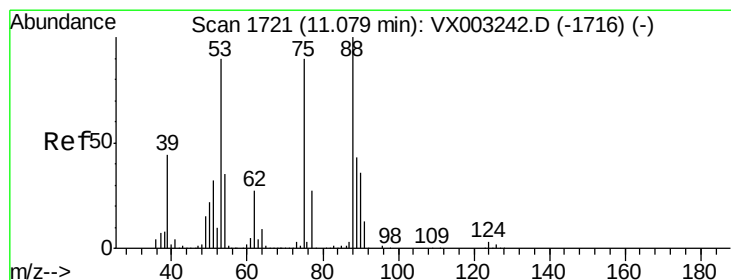
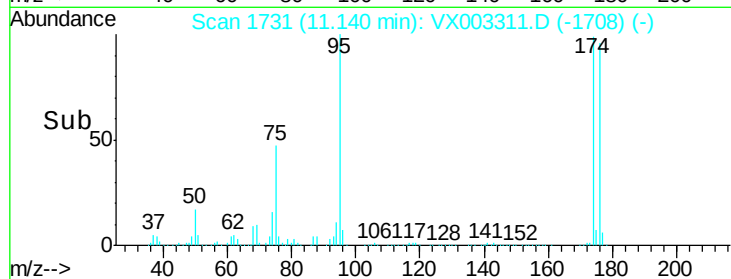
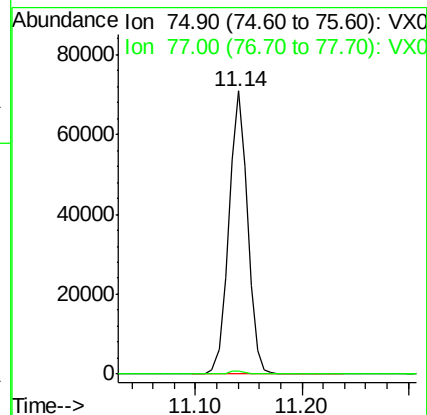
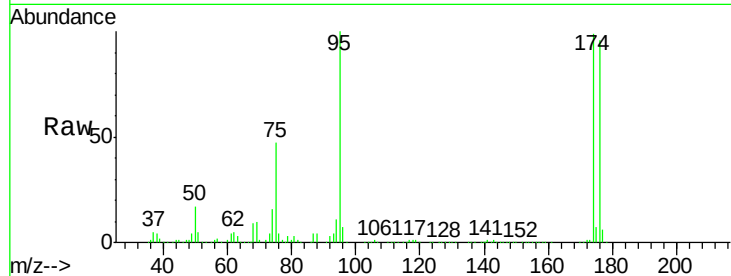
SMH

Tot Ion: 75 Resp: 87329

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003311.D

Acq: 11 Jul 2018 04:10

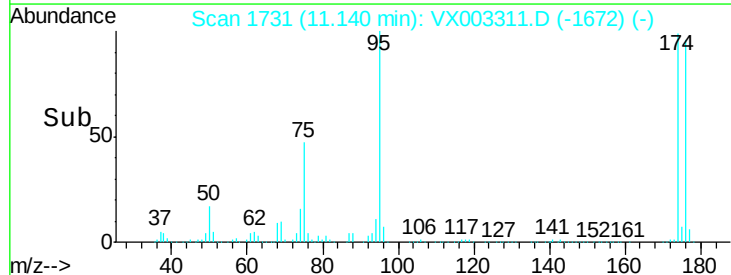
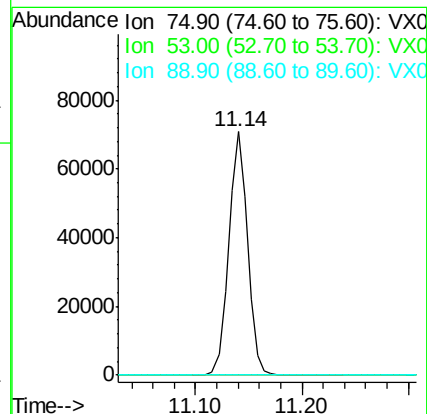
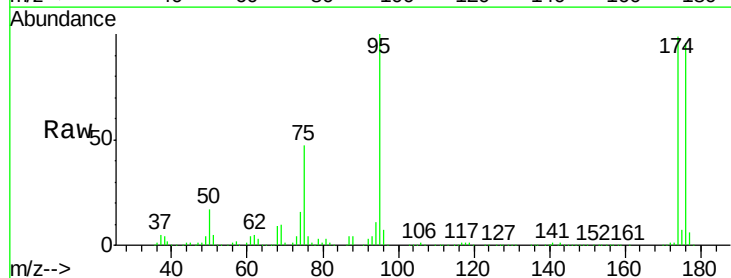
Tgt Ion: 75 Resp: 87329

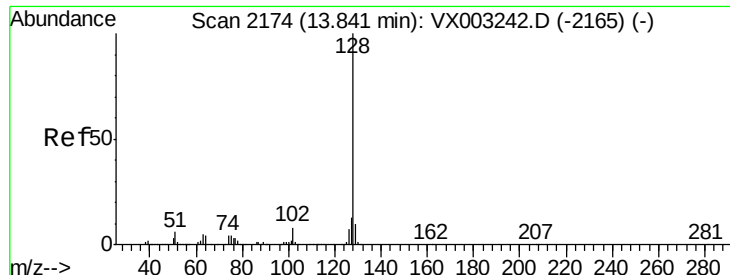
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

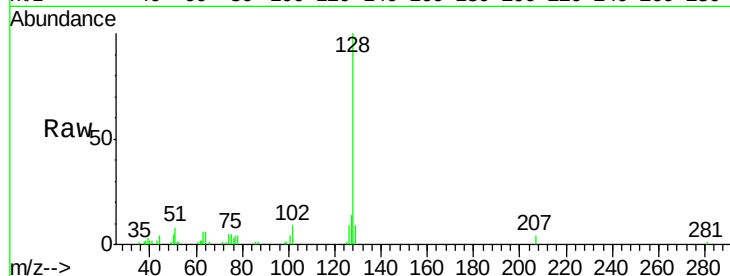




#95
 Naphthalene
 Concen: 0.51 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. -0.00 min
 Lab File: VX003311.D
 Acq: 11 Jul 2018 04:10

Instrument :
 MSVOA_X
 ClientSampleId :
 SMH

Tot Ion:128 Resp: 7941
 Ion Ratio Lower Upper
 128 100
 127 15.2 10.4 15.6
 129 12.5 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

