

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103018\
 Data File : VX005696.D
 Acq On : 30 Oct 2018 17:14
 Operator : JC/MD
 Sample : J5194-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-102618-A

Quant Time: Oct 31 01:03:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	229469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	346385	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146342	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	141374	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
35) Dibromofluoromethane	5.50	113	108696	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	
50) Toluene-d8	8.71	98	398519	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
62) 4-Bromofluorobenzene	11.14	95	133702	42.01	ug/l	0.00
Spiked Amount			Recovery	=	84.02%	

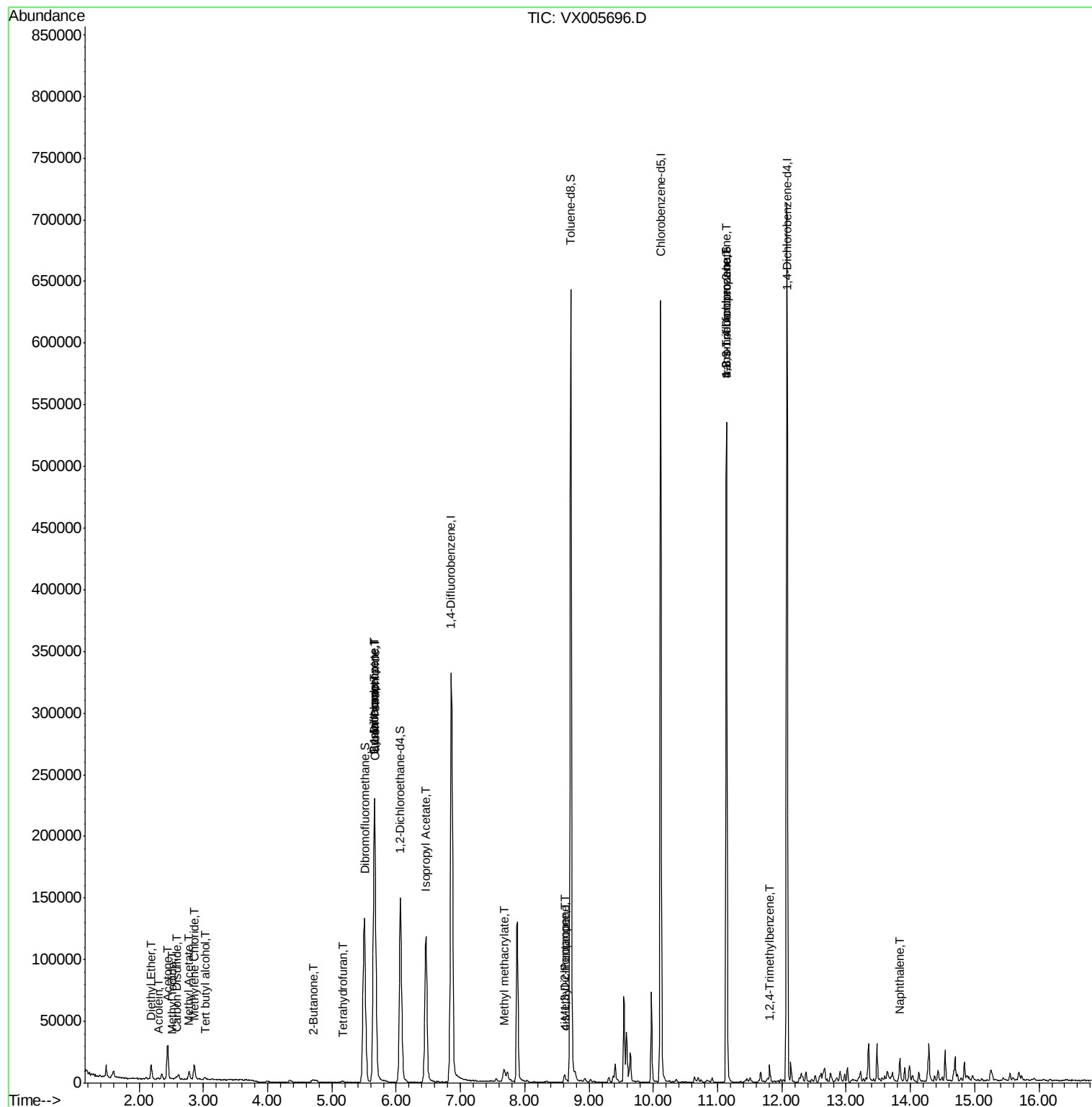
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	3591	2.283	ug/l	96
10) Methyl Iodide	2.53	142	60	2.749	ug/l #	39
11) Tert butyl alcohol	3.02	59	1483	1.967	ug/l #	79
13) Acrolein	2.29	56	487	1.267	ug/l #	73
16) Acetone	2.45	43	30675	20.724	ug/l	99
17) Carbon Disulfide	2.57	76	2208	0.336	ug/l #	90
18) Methyl Acetate	2.78	43	8339	0.844	ug/l	99
20) Methylene Chloride	2.86	84	5007	2.020	ug/l	93
25) 2-Butanone	4.70	43	3835	1.701	ug/l #	87
29) Tetrahydrofuran	5.17	42	1120	0.764	ug/l #	67
31) Cyclohexane	5.66	56	4432	1.174	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	15185	4.517	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21173	5.980	ug/l #	15
43) Isopropyl Acetate	6.46	43	153871	23.938	ug/l	98
48) Methyl methacrylate	7.69	41	8785	2.805	ug/l #	28
51) 4-Methyl-2-Pentanone	8.62	43	2574	0.596	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	924	0.245	ug/l #	62
76) 1,2,3-Trichloropropane	11.14	75	67498	21.769	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	67498	71.131	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	2387	0.308	ug/l	96
95) Naphthalene	13.83	128	10908	1.091	ug/l	98

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

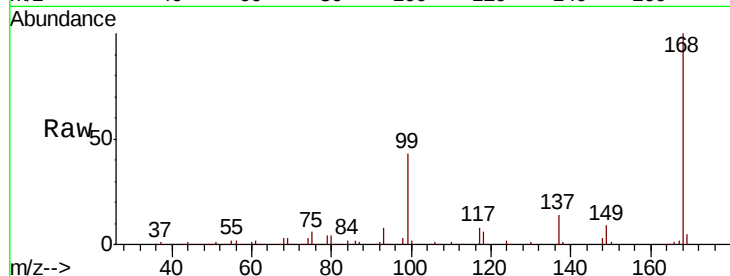
HR-05-102618-A

Tot Ion:168 Resp: 229469

Ion Ratio Lower Upper

168 100

99 42.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

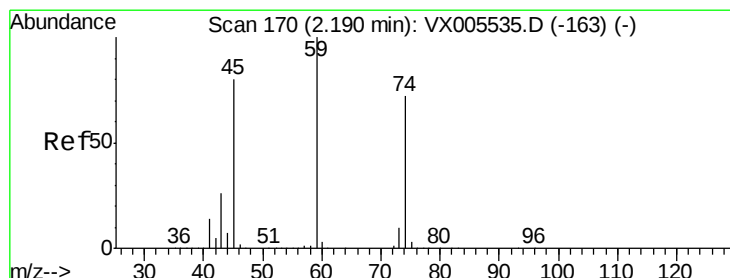
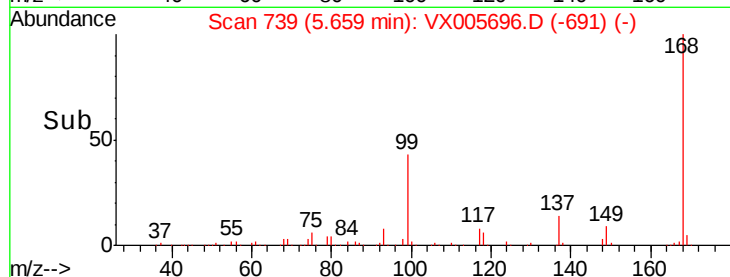
40000

20000

0

Time-->

5.60 5.70 5.80



#8

Diethyl Ether

Concen: 2.283 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005696.D

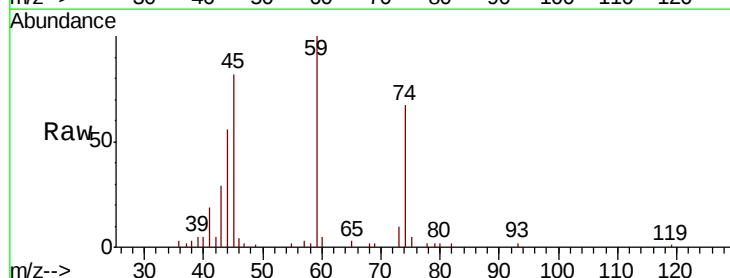
Acq: 30 Oct 2018 17:14

Tgt Ion: 74 Resp: 3591

Ion Ratio Lower Upper

74 100

45 112.1 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

3000

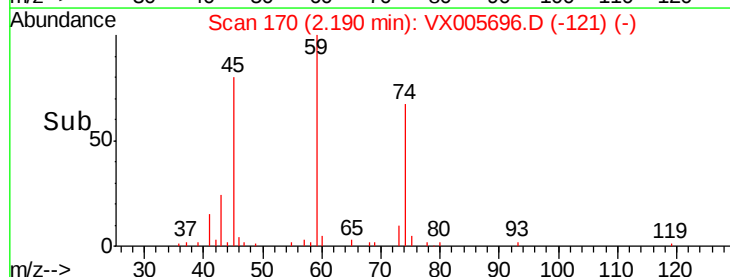
2000

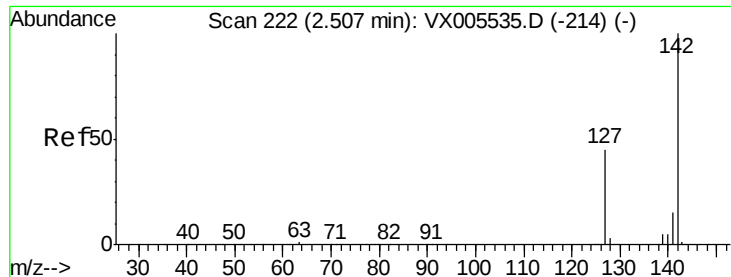
1000

0

Time-->

2.15 2.20 2.25

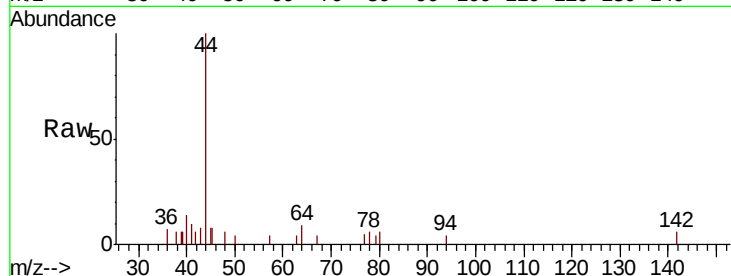




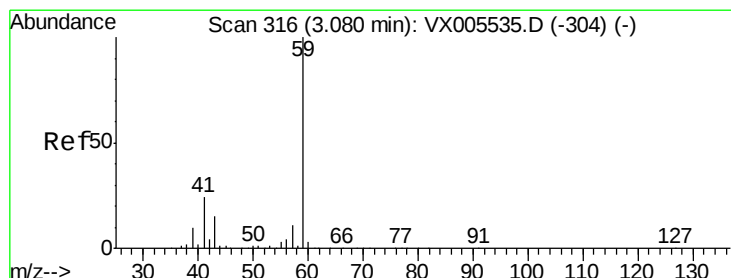
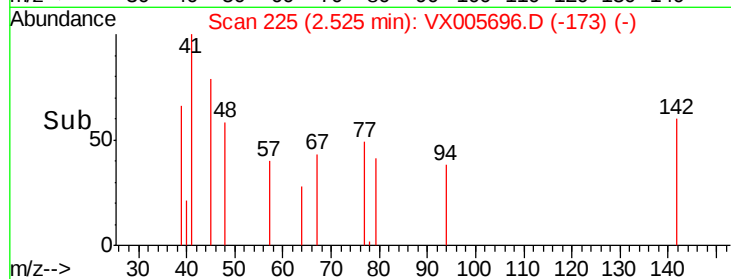
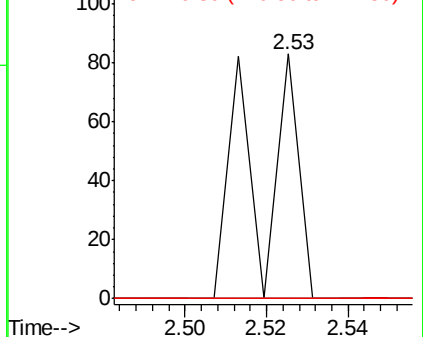
#10
Methyl Iodide
Concen: 2.749 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Instrument :
MSVOA_X
ClientSampleId :
HR-05-102618-A

Tot Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 36.0 54.0#
141 0.0 11.7 17.5#

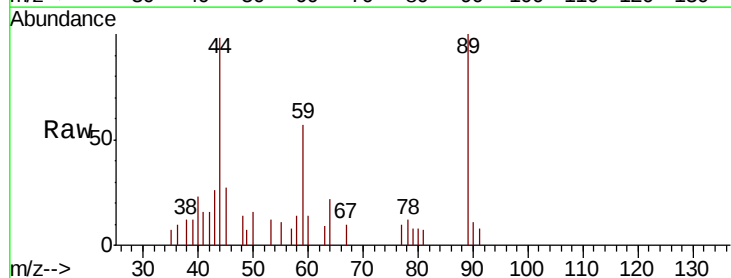


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

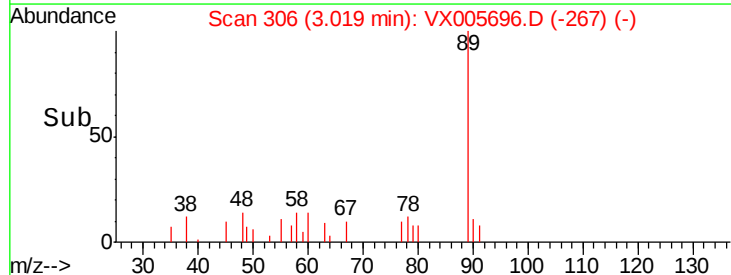
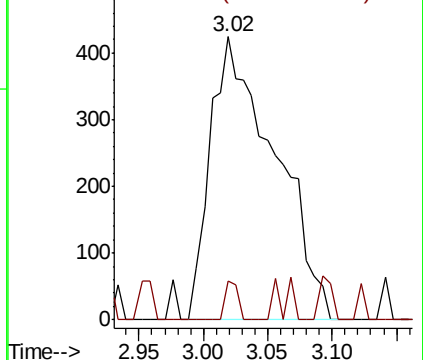


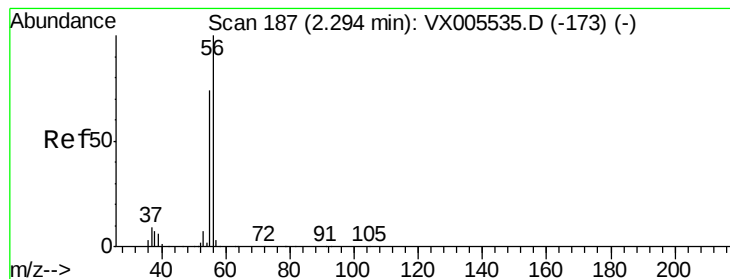
#11
Tert butyl alcohol
Concen: 1.967 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Tgt Ion: 59 Resp: 1483
Ion Ratio Lower Upper
59 100
57 2.8 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.267 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

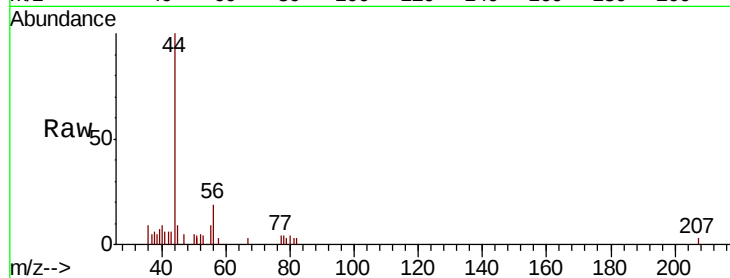
HR-05-102618-A

Tot Ion: 56 Resp: 487

Ion Ratio Lower Upper

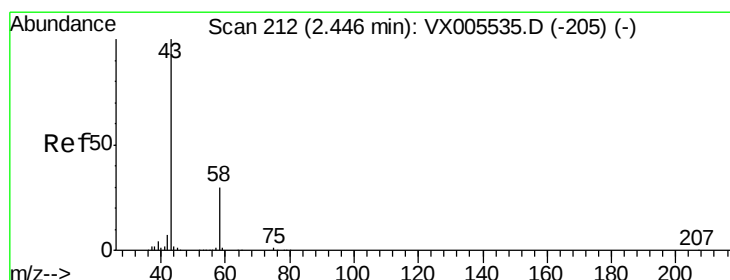
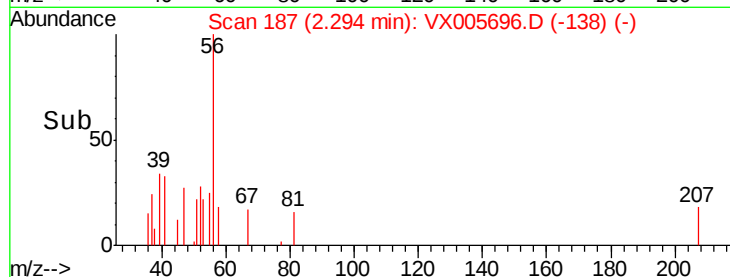
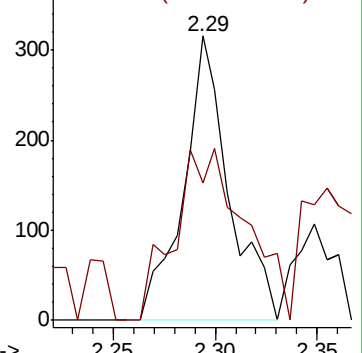
56 100

55 94.3 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 20.724 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005696.D

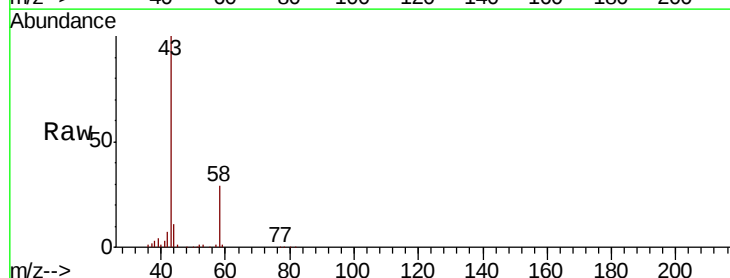
Acq: 30 Oct 2018 17:14

Tgt Ion: 43 Resp: 30675

Ion Ratio Lower Upper

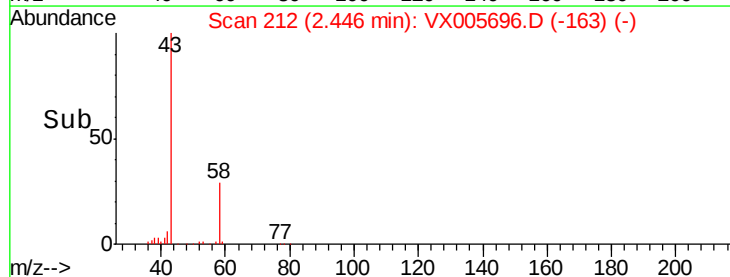
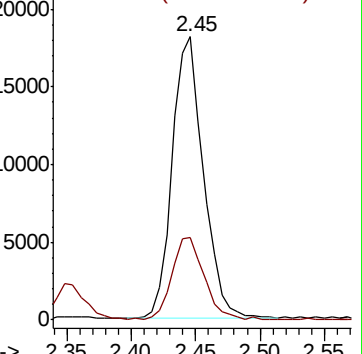
43 100

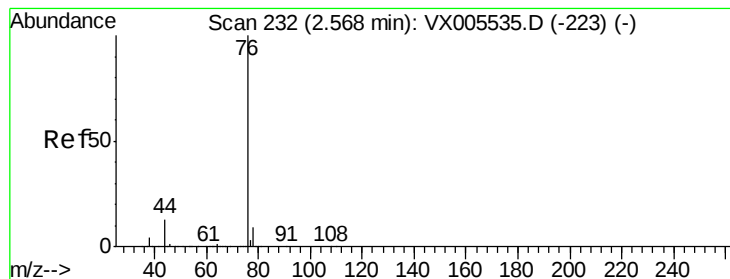
58 29.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.336 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

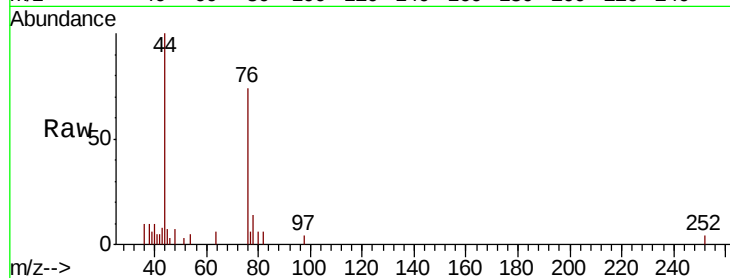
HR-05-102618-A

Tot Ion: 76 Resp: 2208

Ion Ratio Lower Upper

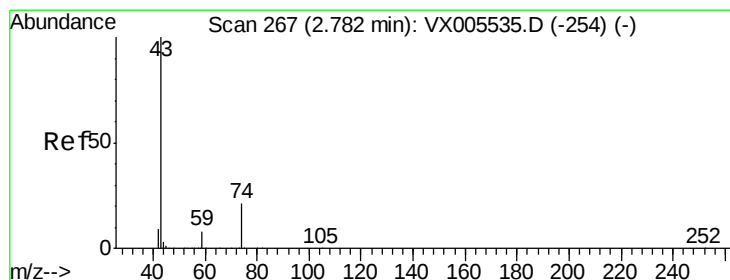
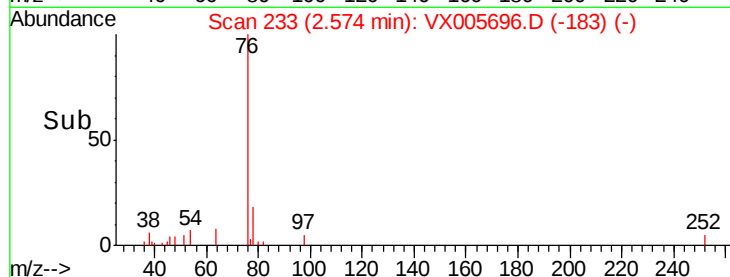
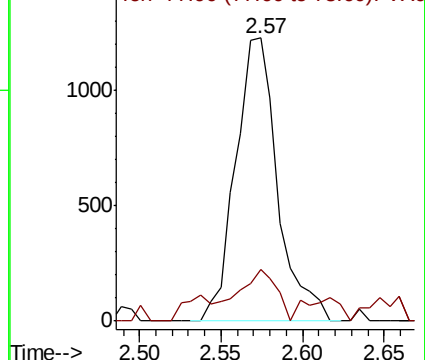
76 100

78 12.6 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.844 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005696.D

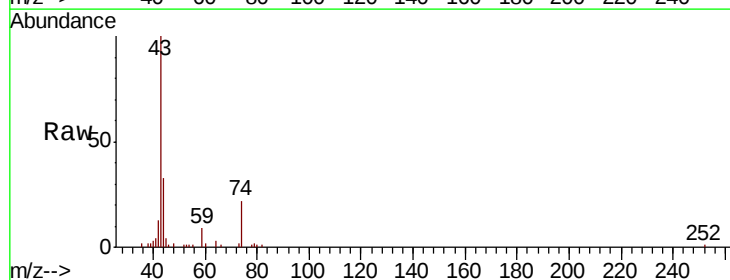
Acq: 30 Oct 2018 17:14

Tgt Ion: 43 Resp: 8339

Ion Ratio Lower Upper

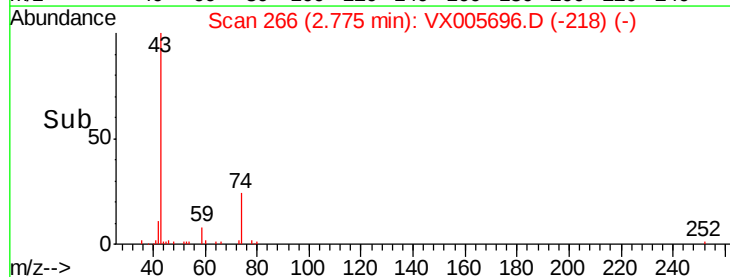
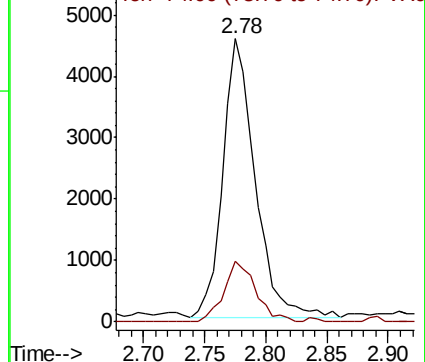
43 100

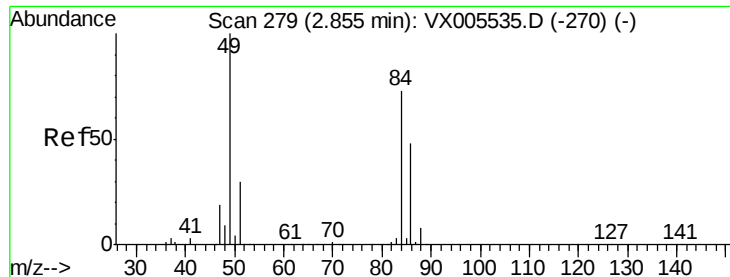
74 21.3 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

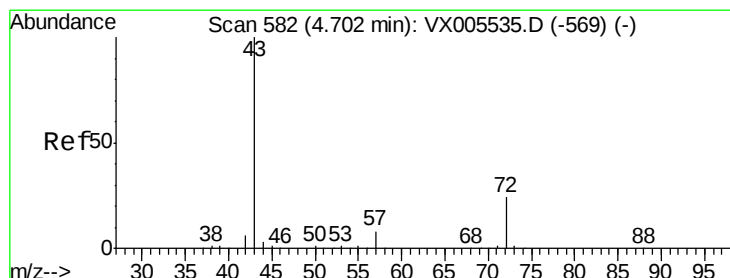
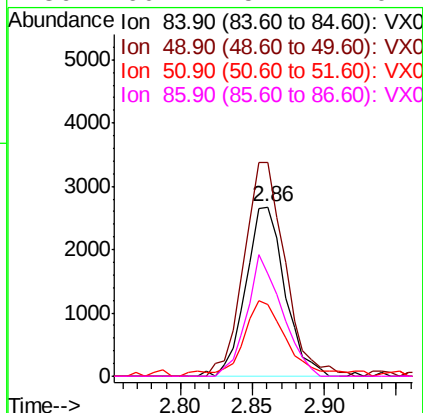
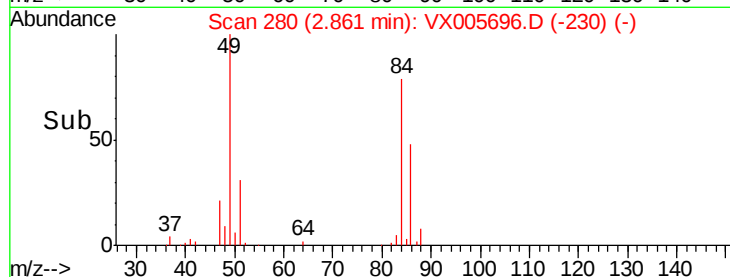
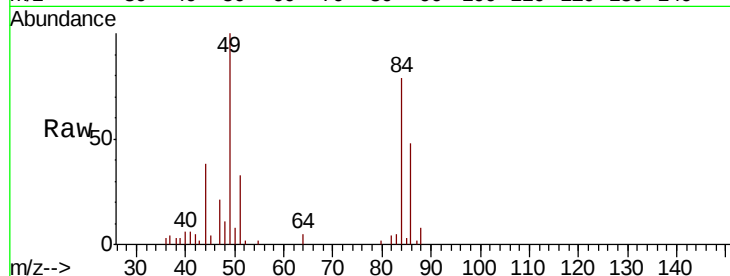




#20
Methvlene Chloride
Concen: 2.020 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

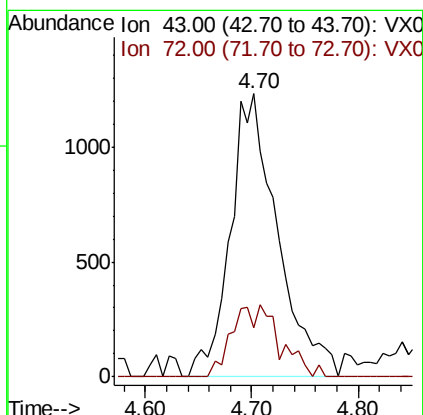
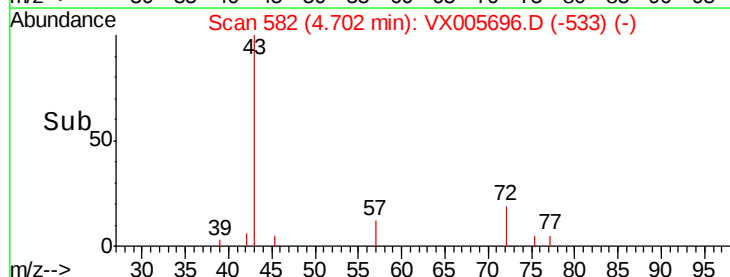
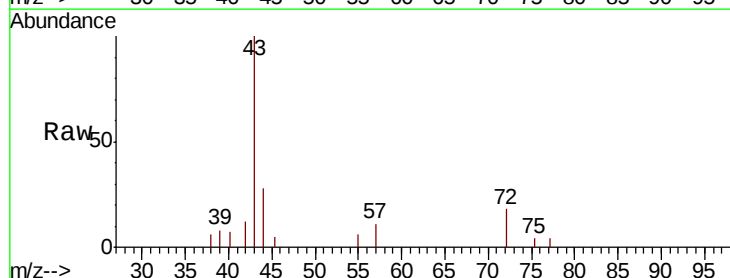
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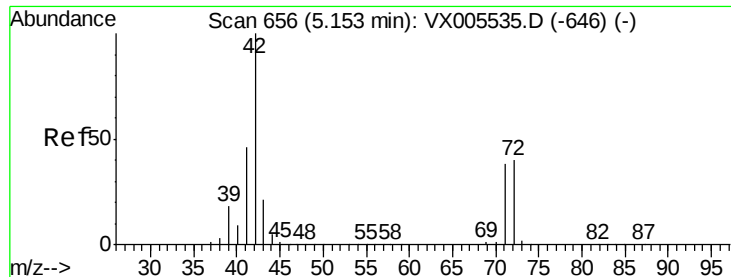
Tot Ion: 84 Resp: 5007
Ion Ratio Lower Upper
84 100
49 126.4 109.5 164.3
51 40.1 33.3 49.9
86 60.4 52.7 79.1



#25
2-Butanone
Concen: 1.701 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Tgt Ion: 43 Resp: 3835
Ion Ratio Lower Upper
43 100
72 17.5 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.764 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

HR-05-102618-A

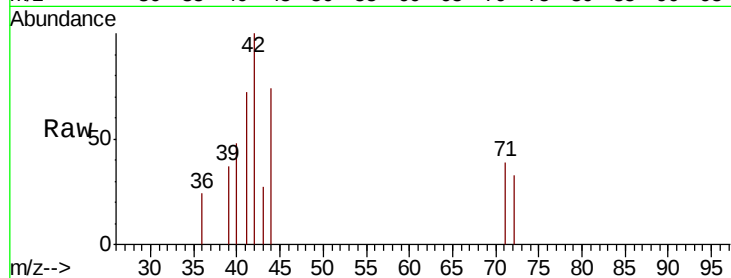
Tot Ion: 42 Resp: 1120

Ion Ratio Lower Upper

42 100

72 36.3 32.0 48.0

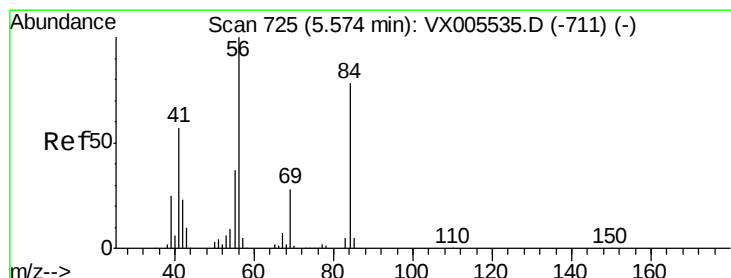
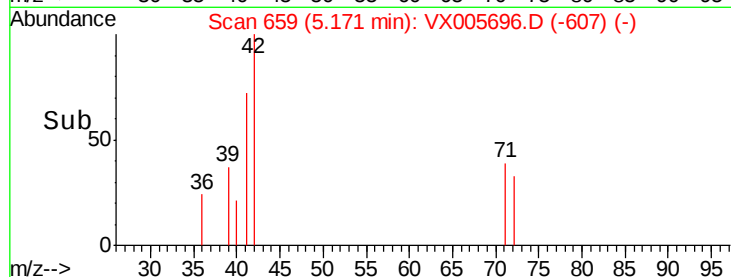
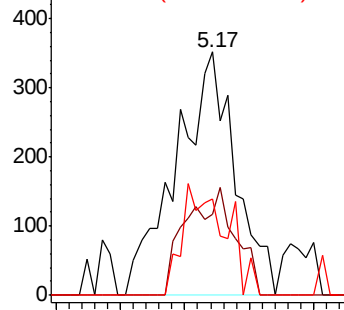
71 0.0 29.8 44.8#



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: 1.174 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

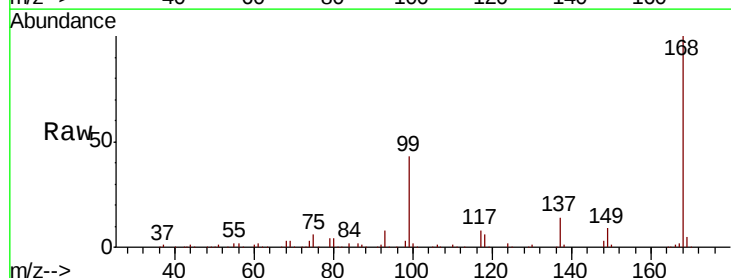
Tgt Ion: 56 Resp: 4432

Ion Ratio Lower Upper

56 100

69 150.6 22.6 34.0#

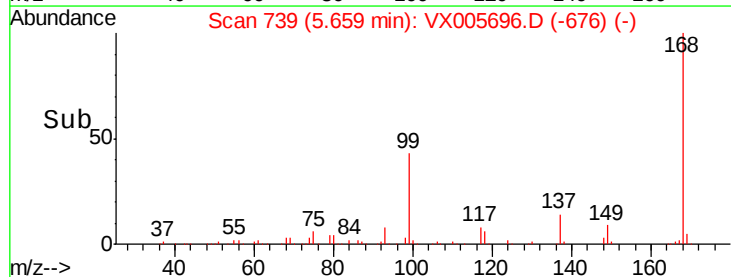
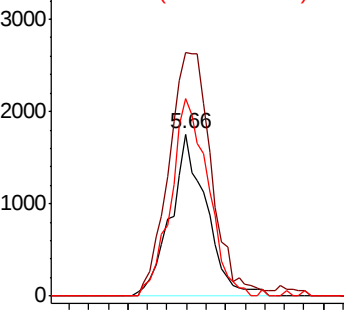
84 122.1 62.7 94.1#

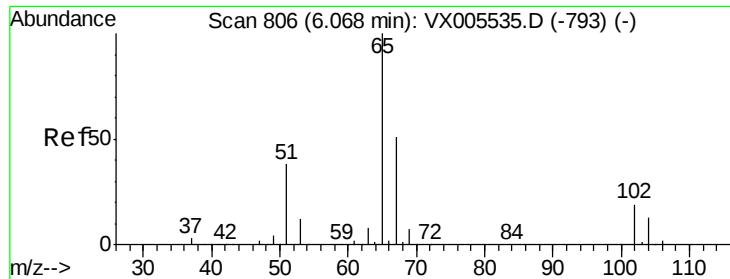


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

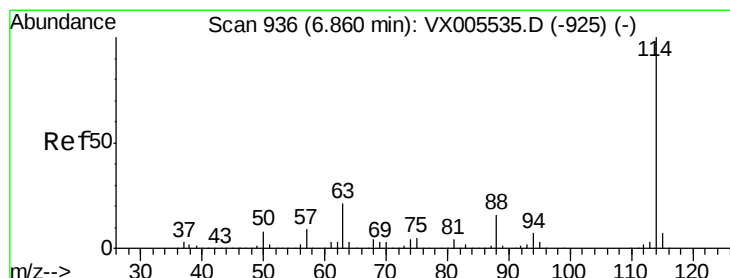
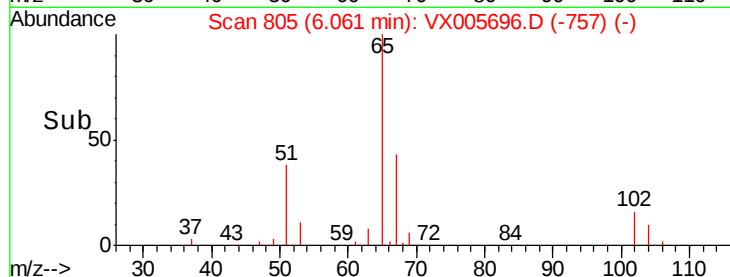
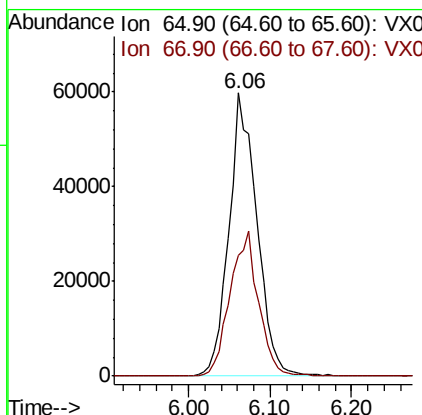
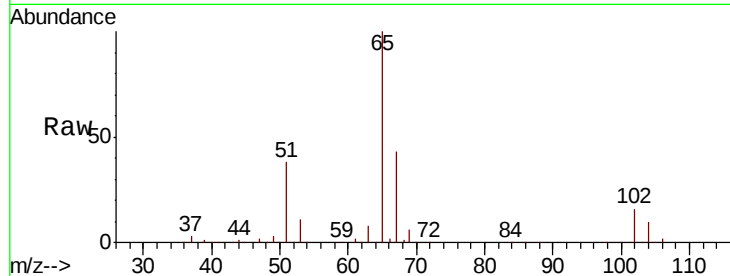




#33
 1,2-Dichloroethane-d4
 Concen: 50.471 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005696.D
 Acq: 30 Oct 2018 17:14

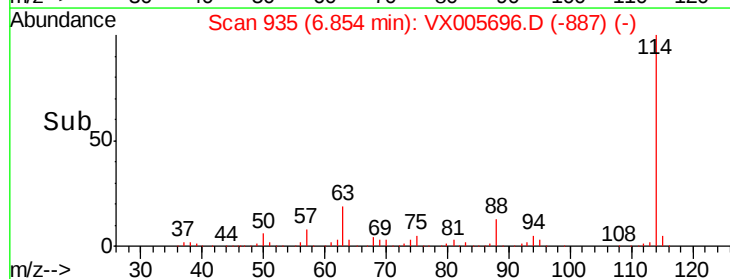
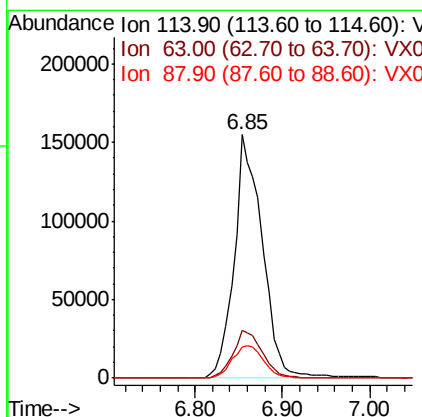
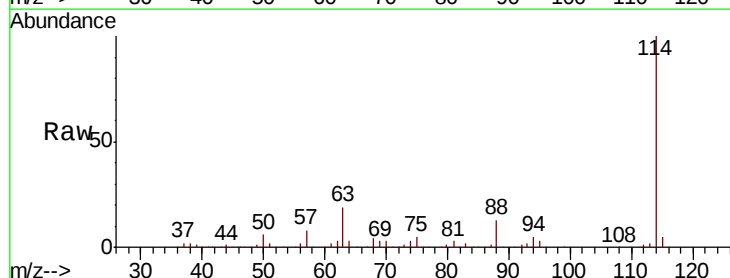
Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-102618-A

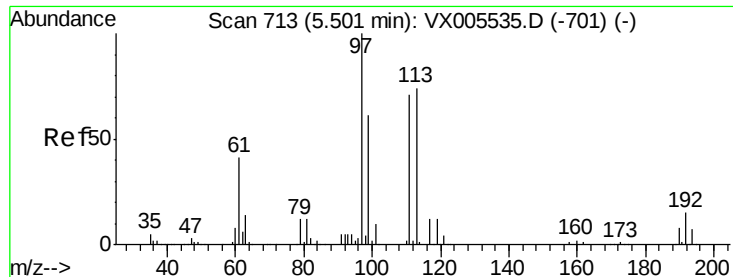
Tot Ion: 65 Resp: 141374
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX005696.D
 Acq: 30 Oct 2018 17:14

Tgt Ion: 114 Resp: 346385
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.8
 88 12.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 46.344 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

HR-05-102618-A

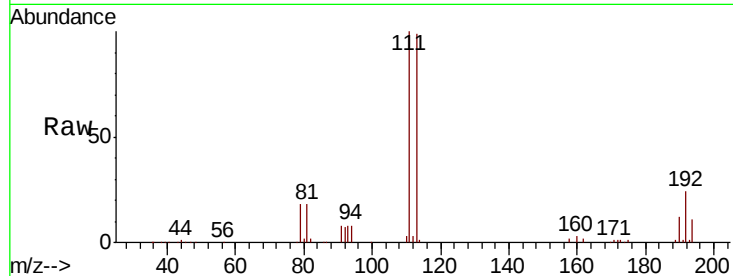
Tot Ion:113 Resp: 108696

Ion Ratio Lower Upper

113 100

111 104.8 82.3 123.5

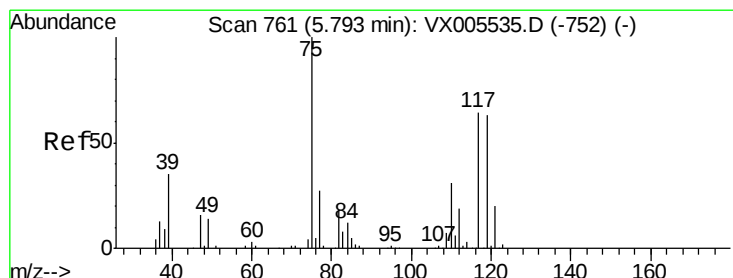
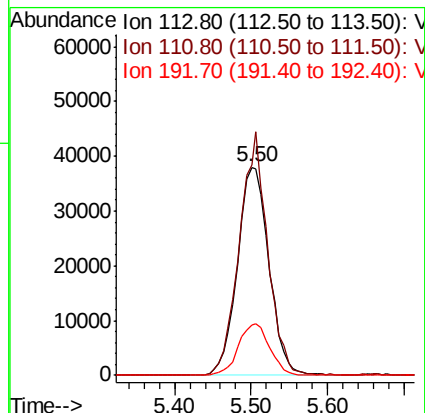
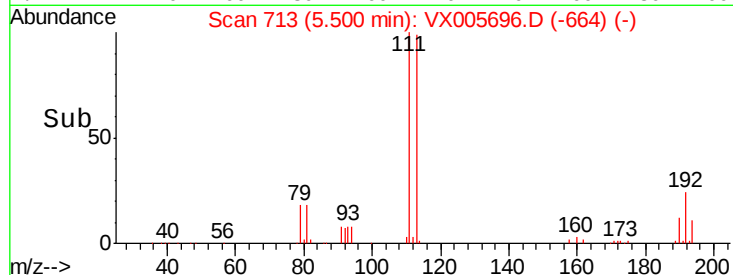
192 24.7 17.9 26.9



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: 4.517 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

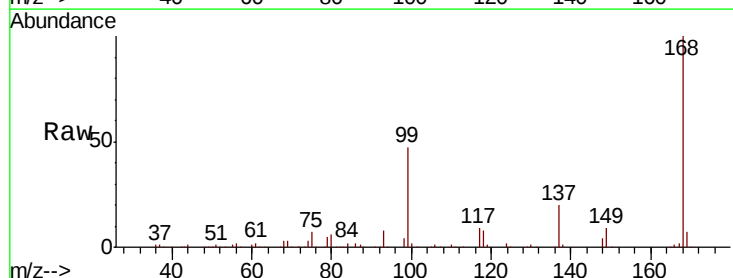
Tgt Ion: 75 Resp: 15185

Ion Ratio Lower Upper

75 100

110 10.2 17.4 52.2#

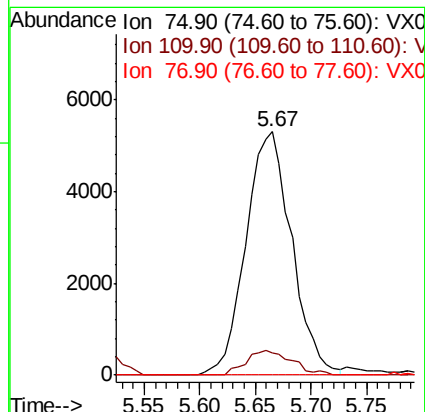
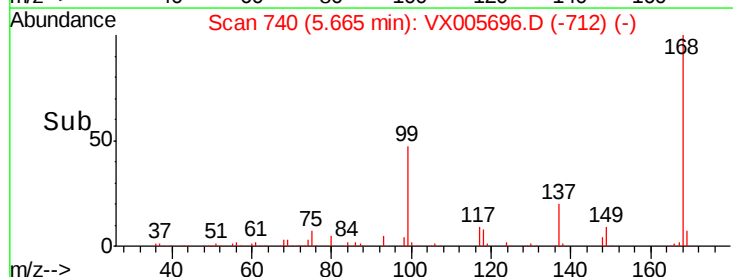
77 0.0 25.8 38.6#

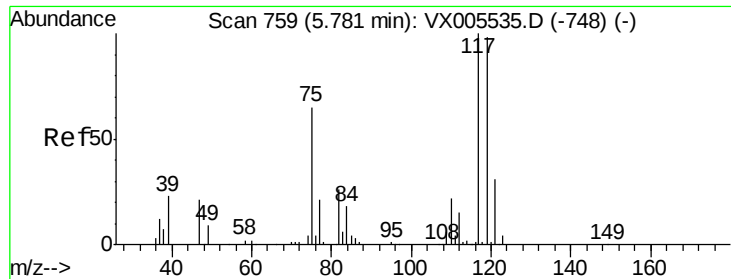


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

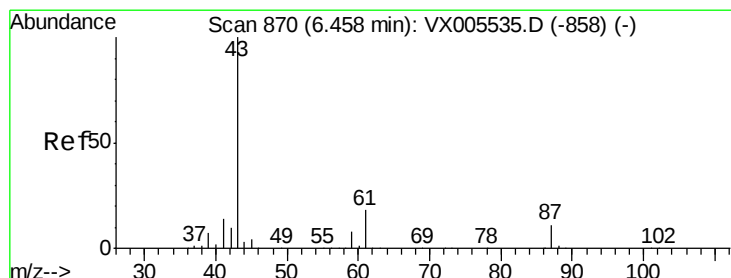
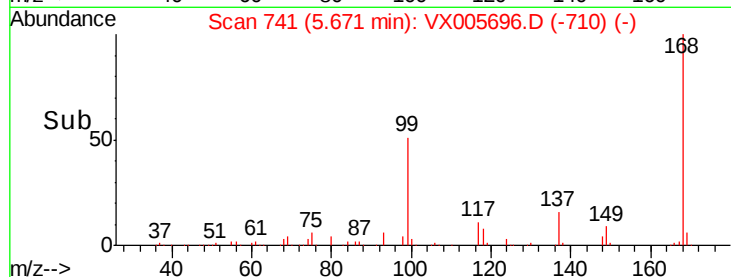
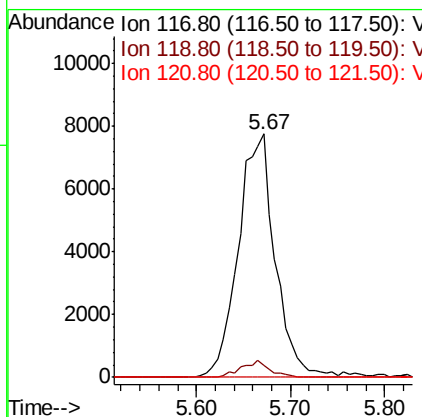
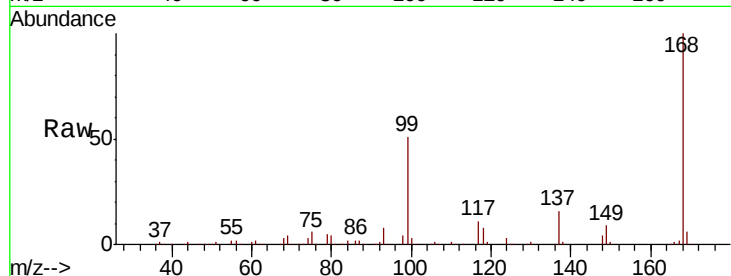




#38
Carbon Tetrachloride
Concen: 5.980 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

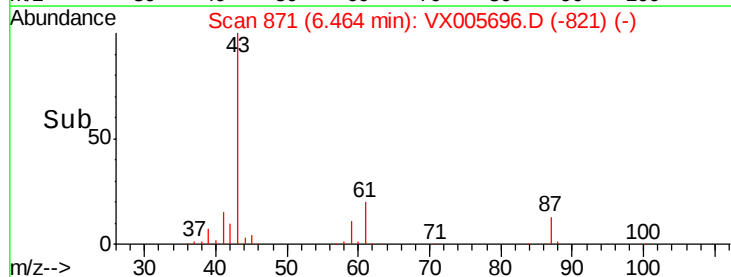
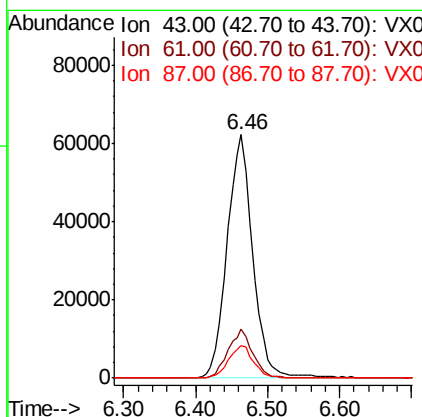
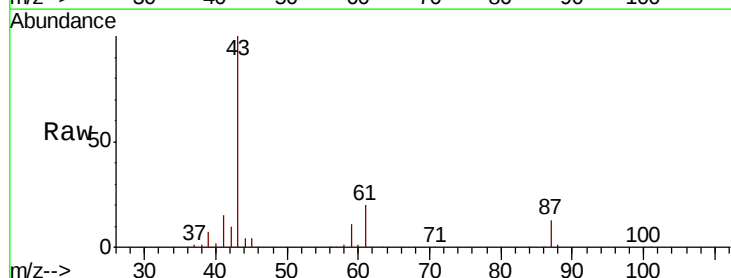
Instrument :
MSVOA_X
ClientSampleId :
HR-05-102618-A

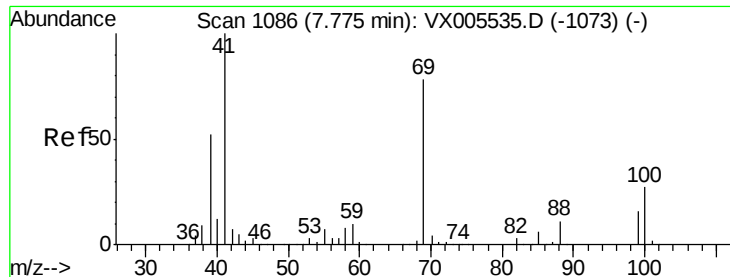
Tot Ion:117 Resp: 21173
Ion Ratio Lower Upper
117 100
119 4.9 78.1 117.1#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 23.938 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Tgt Ion: 43 Resp: 153871
Ion Ratio Lower Upper
43 100
61 19.2 14.6 22.0
87 13.0 9.6 14.4

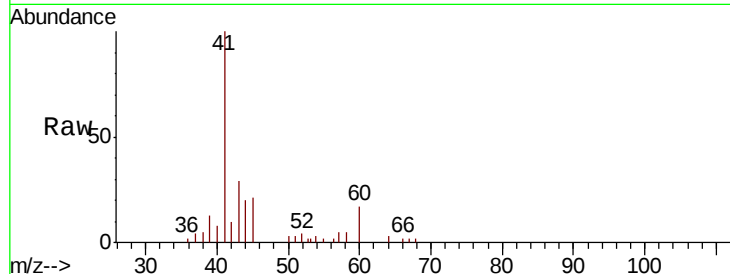




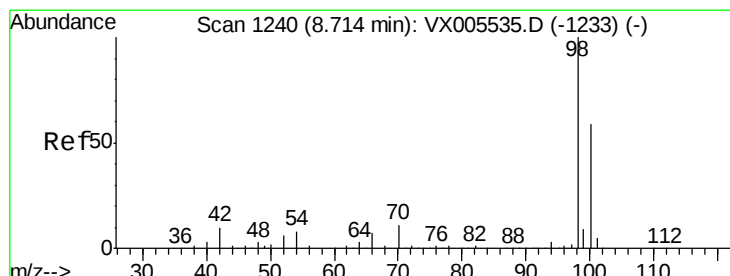
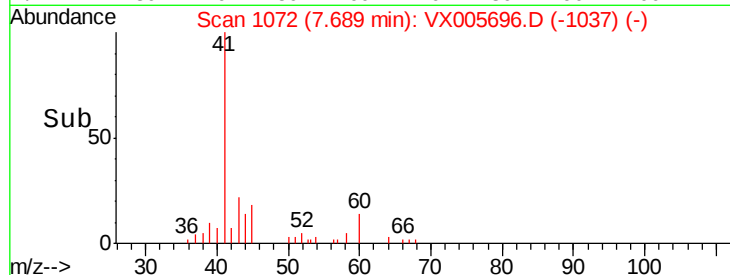
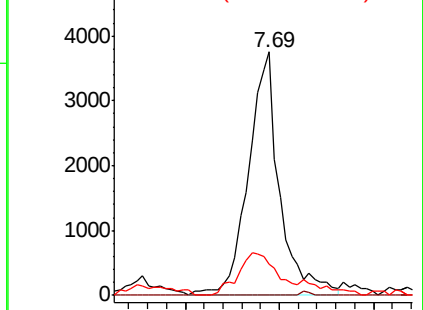
#48
Methvl methacrylate
Concen: 2.805 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Instrument :
MSVOA_X
ClientSampleId :
HR-05-102618-A

Tot Ion: 41 Resp: 8785
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 21.7 42.2 63.2#

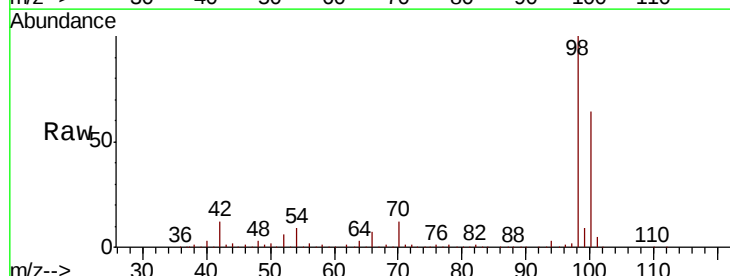


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

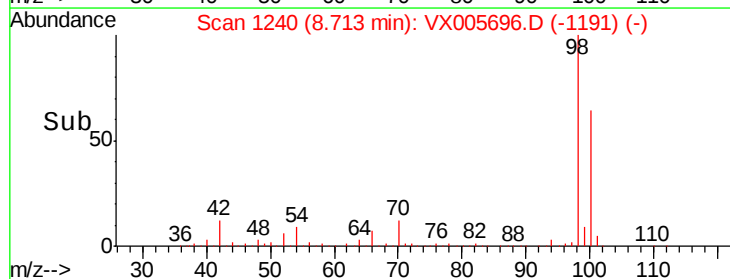
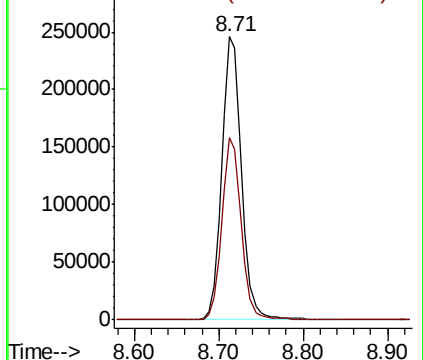


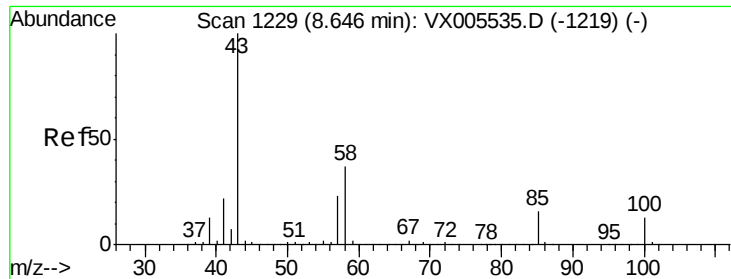
#50
Toluene-d8
Concen: 47.287 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Tgt Ion: 98 Resp: 398519
Ion Ratio Lower Upper
98 100
100 63.4 51.3 76.9



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: 0.596 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

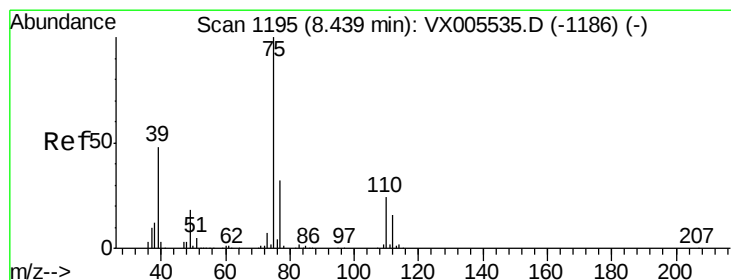
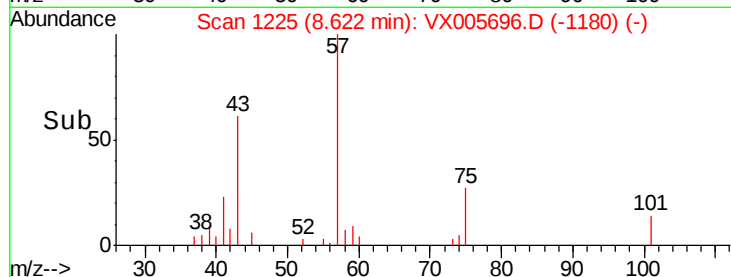
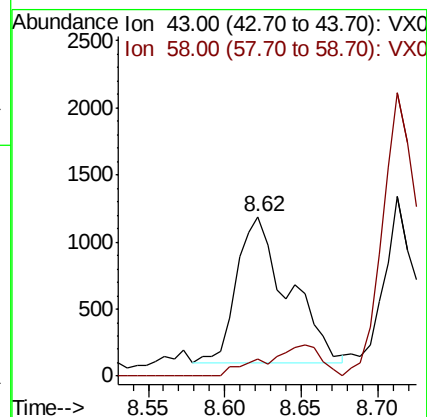
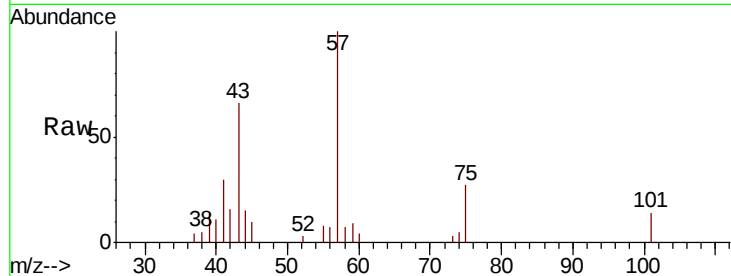
HR-05-102618-A

Tot Ion: 43 Resp: 2574

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.245 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

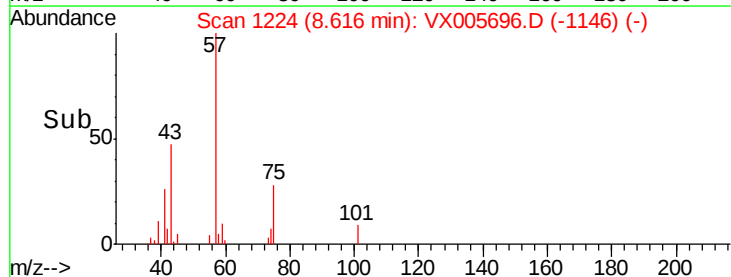
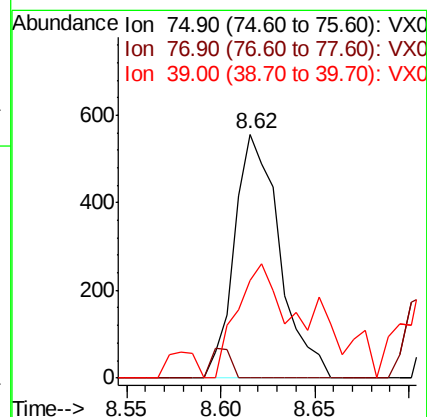
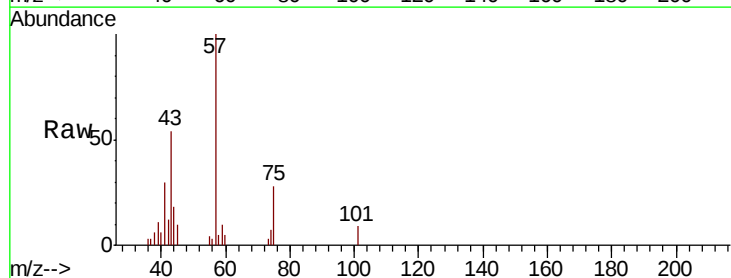
Tgt Ion: 75 Resp: 924

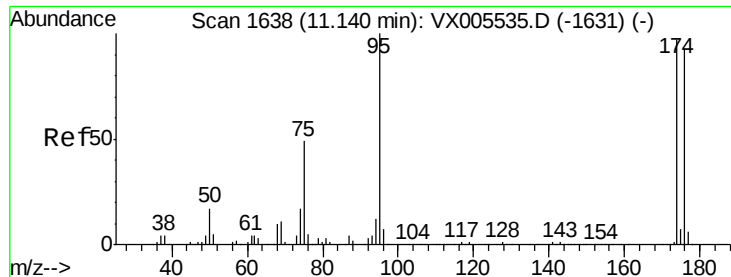
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 30.6 38.2 57.2#

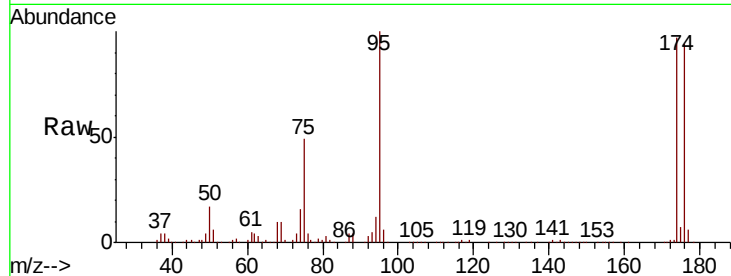




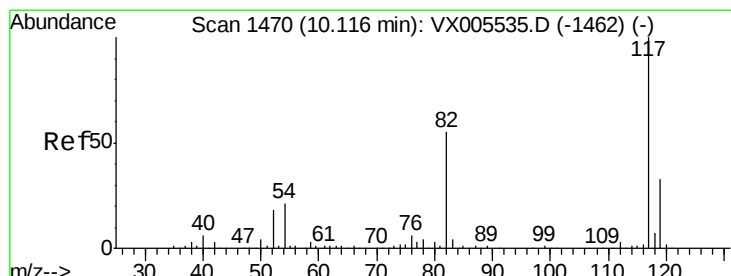
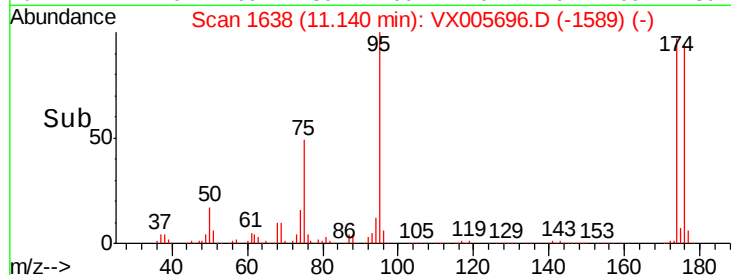
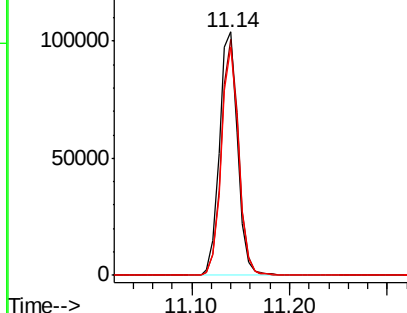
#62
4-Bromofluorobenzene
Concen: 42.010 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Instrument :
MSVOA_X
ClientSampleId :
HR-05-102618-A

Tot Ion: 95 Resp: 133702
Ion Ratio Lower Upper
95 100
174 93.4 0.0 184.4
176 89.7 0.0 177.4

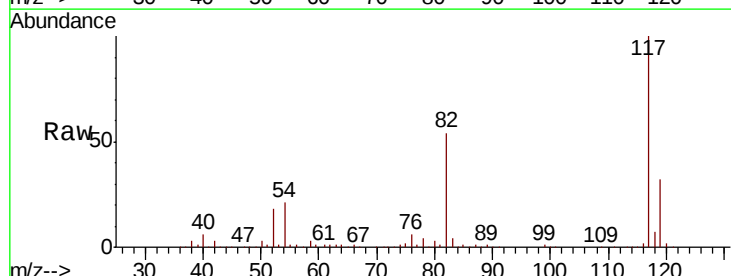


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

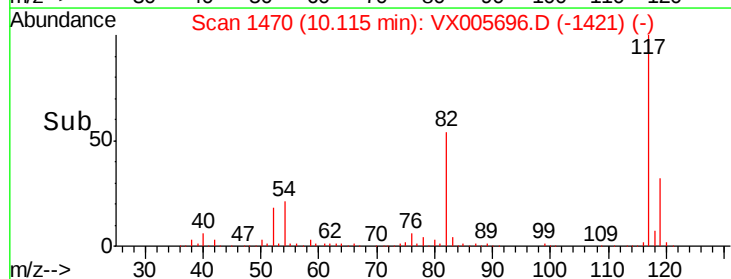
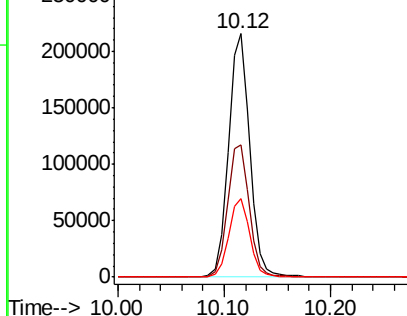


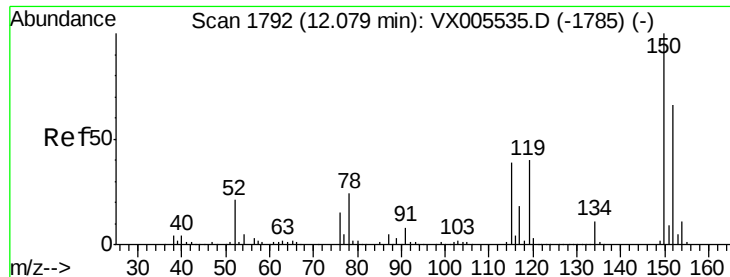
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005696.D
Acq: 30 Oct 2018 17:14

Tgt Ion: 117 Resp: 300962
Ion Ratio Lower Upper
117 100
82 54.4 44.1 66.1
119 32.3 26.2 39.2



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

HR-05-102618-A

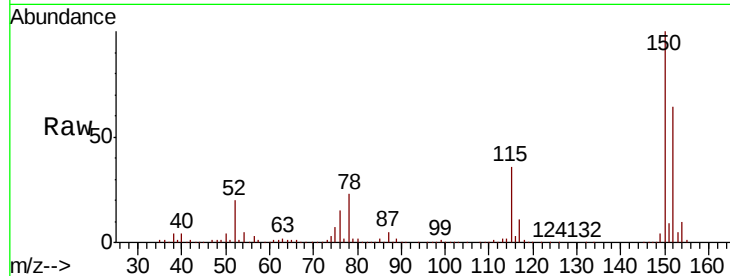
Tot Ion:152 Resp: 146342

Ion Ratio Lower Upper

152 100

115 54.9 39.4 118.1

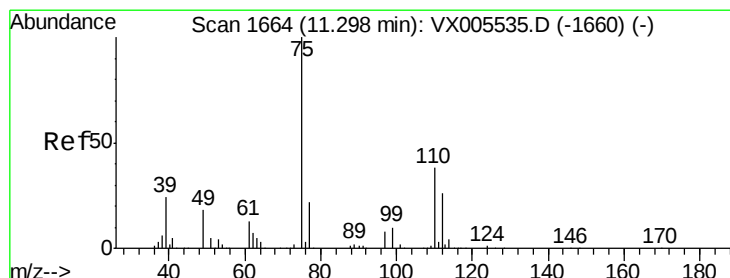
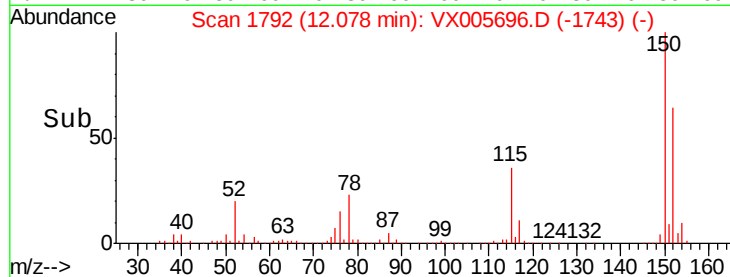
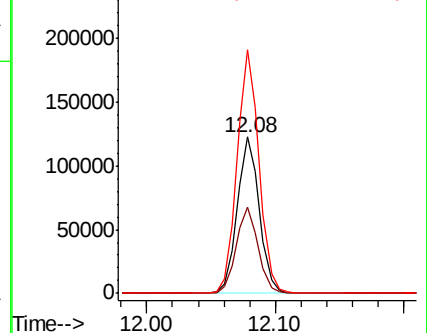
150 155.5 0.0 346.4



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: 21.769 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005696.D

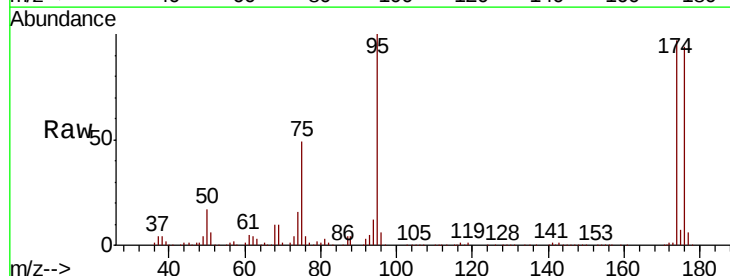
Acq: 30 Oct 2018 17:14

Tgt Ion: 75 Resp: 67498

Ion Ratio Lower Upper

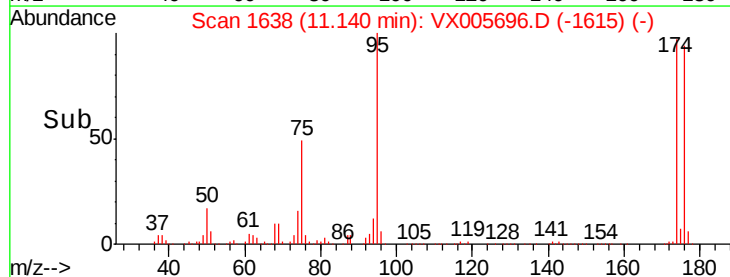
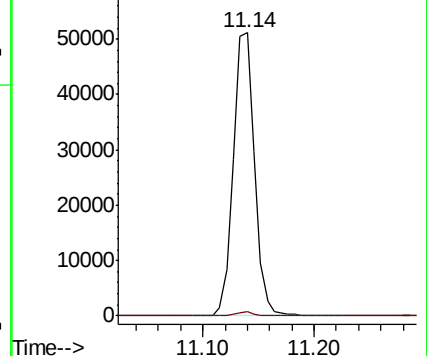
75 100

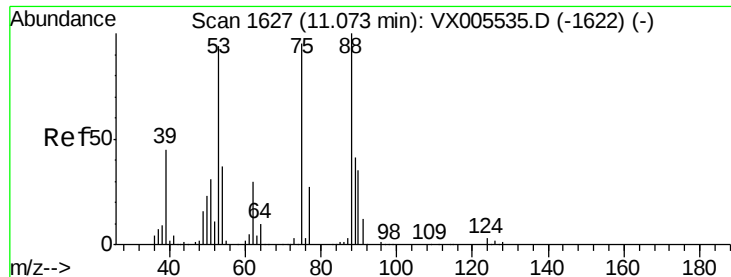
77 1.3 20.5 61.6#



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: 71.131 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

HR-05-102618-A

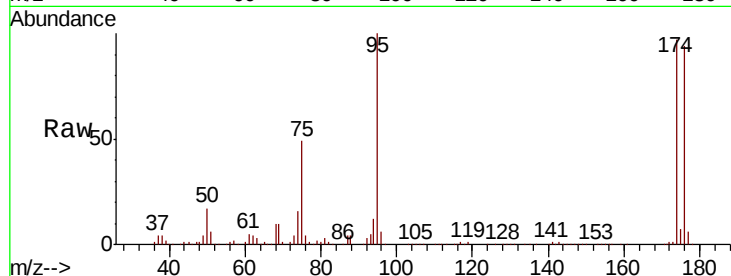
Tot Ion: 75 Resp: 67498

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

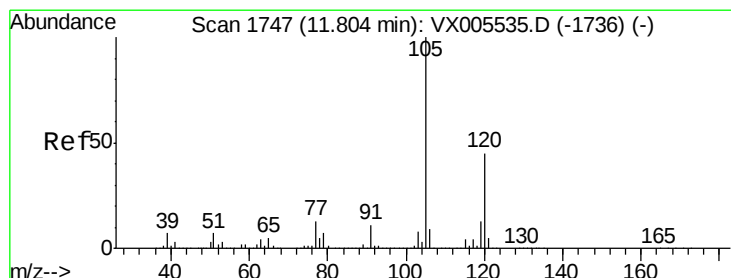
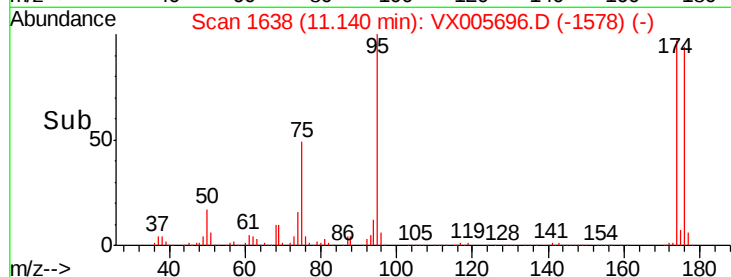
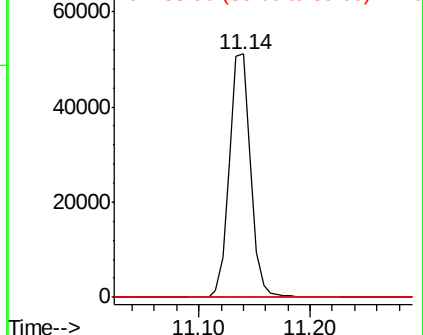
89 0.1 39.8 59.8#



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: 0.308 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX005696.D

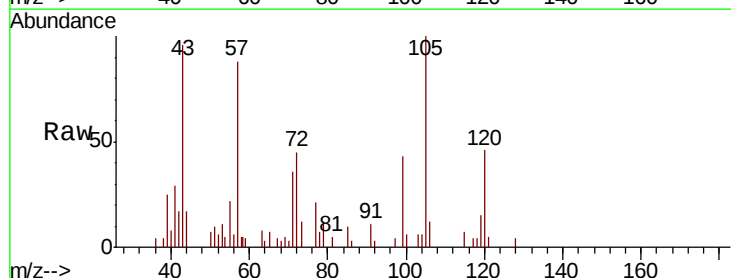
Acq: 30 Oct 2018 17:14

Tgt Ion: 105 Resp: 2387

Ion Ratio Lower Upper

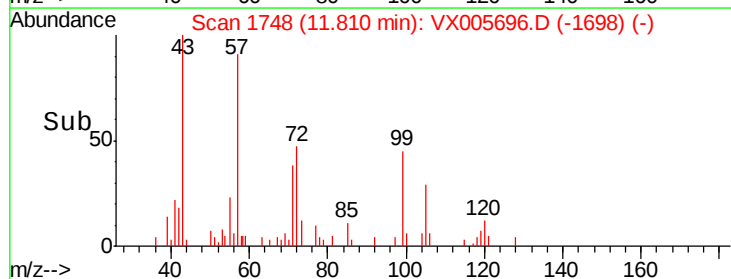
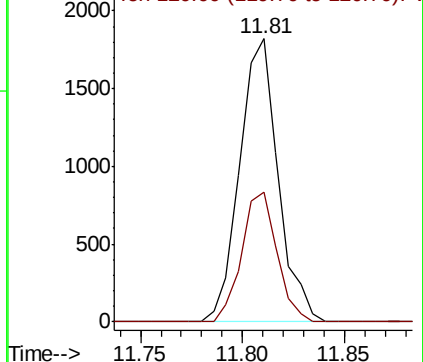
105 100

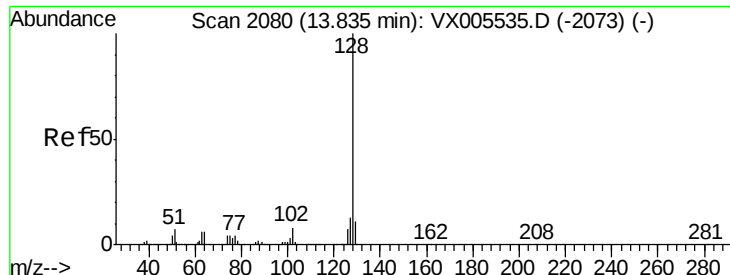
120 41.9 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.091 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005696.D

Acq: 30 Oct 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

HR-05-102618-A

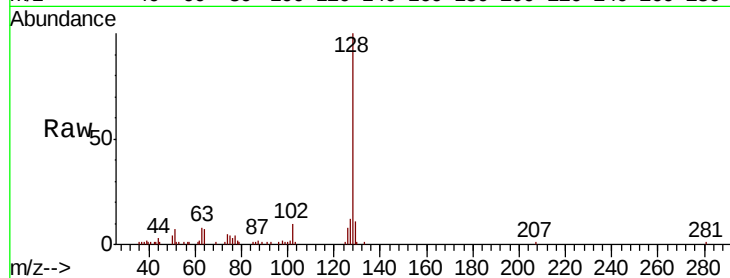
Tot Ion:128 Resp: 10908

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

129 11.6 8.7 13.1



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

