

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042018\
 Data File : VX001006.D
 Acq On : 20 Apr 2018 14:10
 Operator : JC/MD
 Sample : J2439-03 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 05:32:42 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	346990	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	202972	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	159074	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	5.51	113	124237	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
50) Toluene-d8	8.72	98	489103	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.14	95	185677	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	

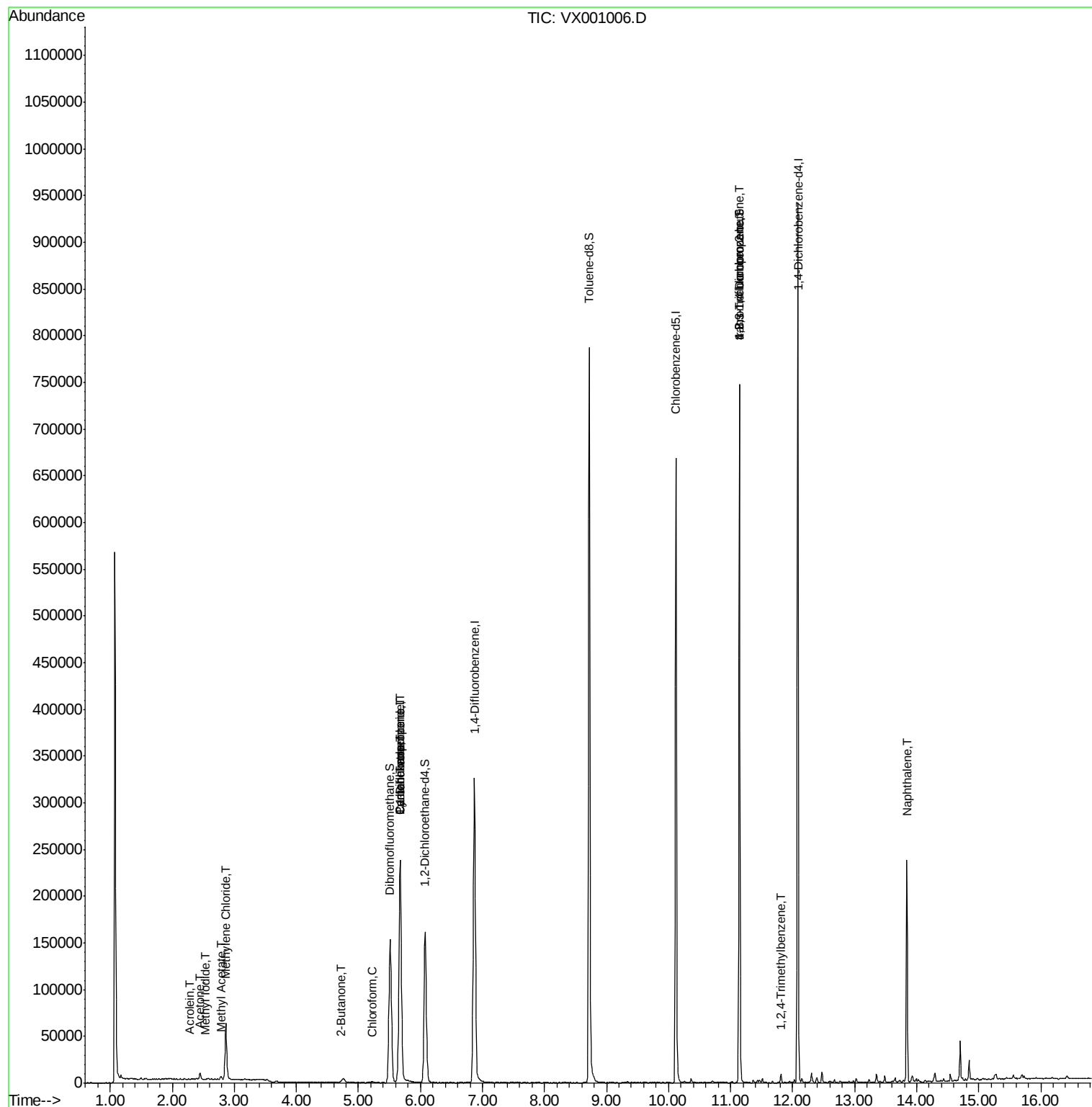
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	235	Below Cal	#	78
10) Methyl Iodide	2.53	142	150	7.65	ug/l #	41
13) Acrolein	2.29	56	142	11.85	ug/l #	1
16) Acetone	2.45	43	7260	6.09	ug/l	97
18) Methyl Acetate	2.78	43	3748	1.04	ug/l	93
20) Methylene Chloride	2.86	84	28569	10.15	ug/l	99
25) 2-Butanone	4.71	43	2575	1.38	ug/l	93
30) Chloroform	5.23	83	1141	0.23	ug/l	97
31) Cyclohexane	5.67	56	4365	0.98	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16010	3.93	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22435	5.43	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	92178	26.18	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	92178	78.36	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.81	105	3800	0.33	ug/l	96
95) Naphthalene	13.84	128	146020	10.13	ug/l	99

(#) = 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. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

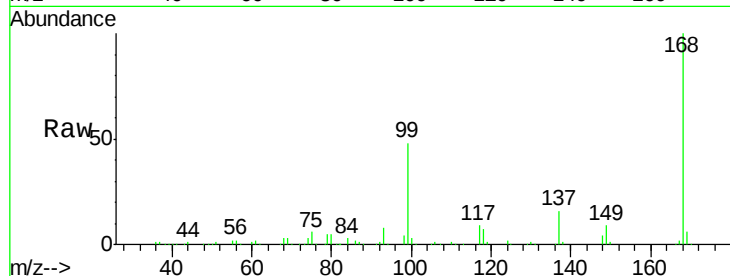
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 249708

Ion Ratio Lower Upper

168 100

99 48.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

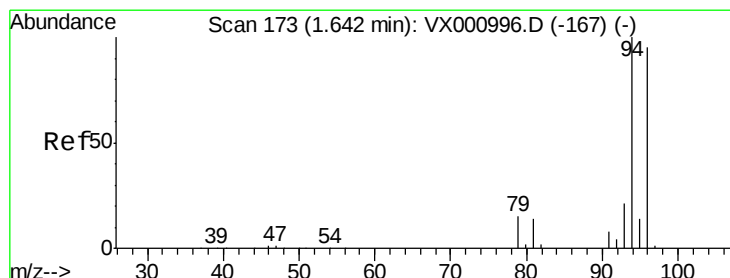
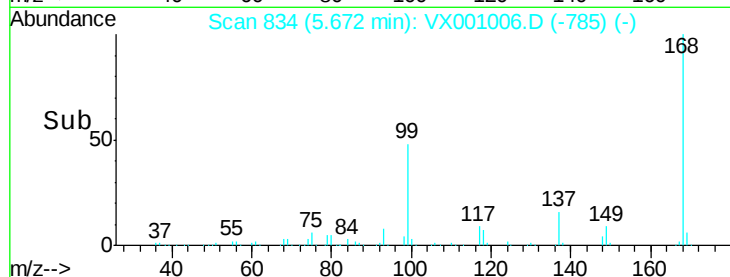
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001006.D

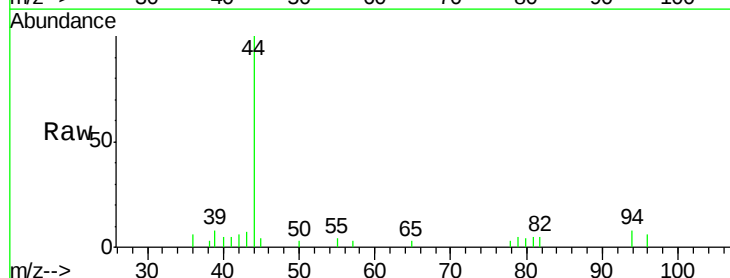
Acq: 20 Apr 2018 14:10

Tgt Ion: 94 Resp: 235

Ion Ratio Lower Upper

94 100

96 73.2 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

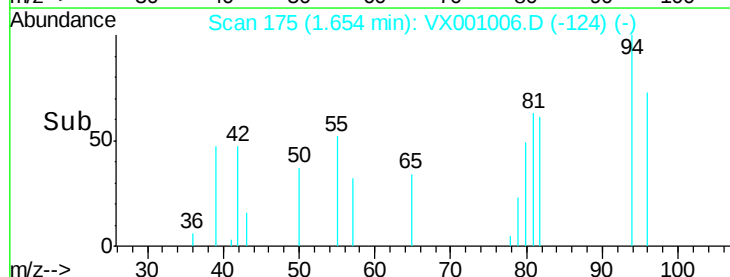
150

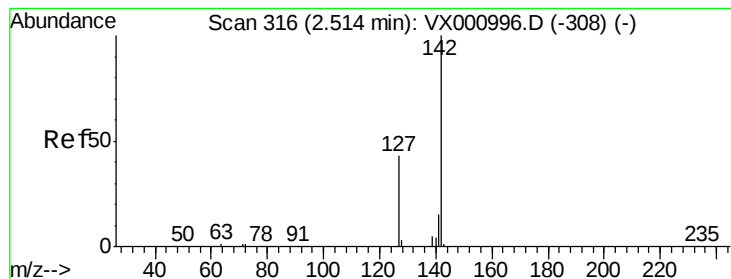
100

50

0

Time--> 1.64 1.66 1.68





#10

Methyl Iodide

Concen: 7.65 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampled :

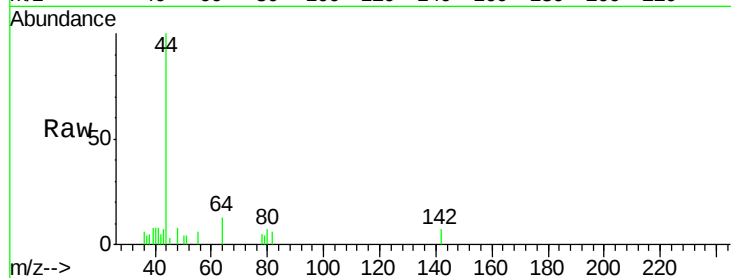
Tot Ion:142 Resp: 150

Ion Ratio Lower Upper

142 100

127 0.0 34.0 51.0#

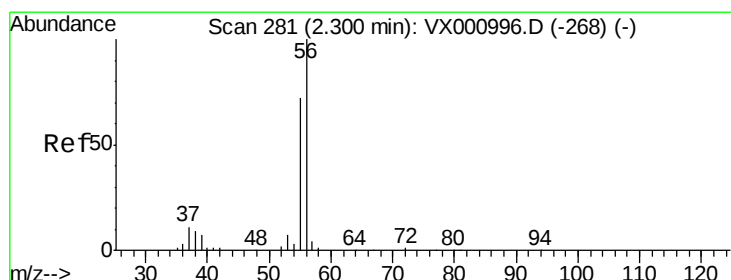
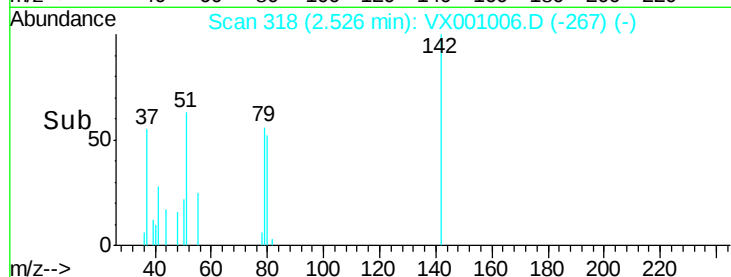
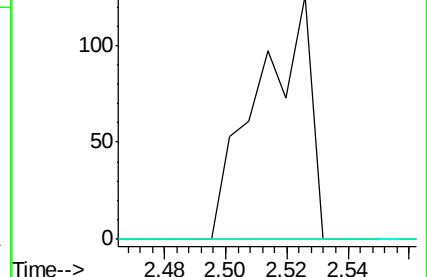
141 0.0 11.4 17.2#



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



#13

Acrolein

Concen: 11.85 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001006.D

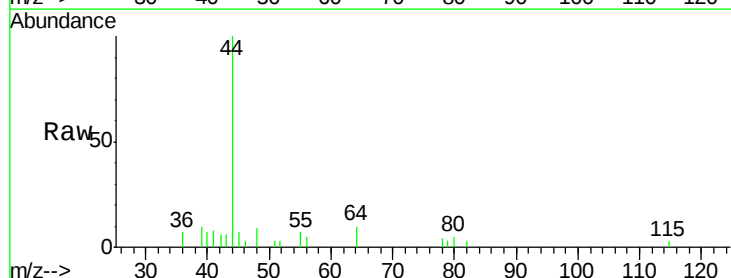
Acq: 20 Apr 2018 14:10

Tgt Ion: 56 Resp: 142

Ion Ratio Lower Upper

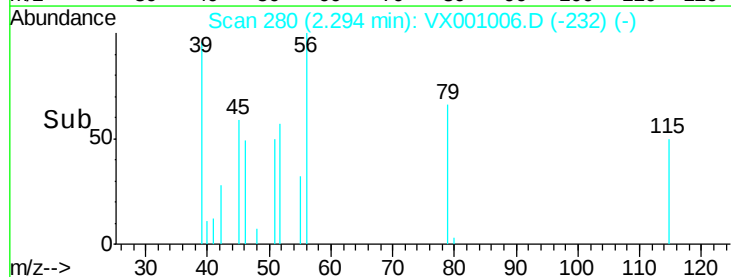
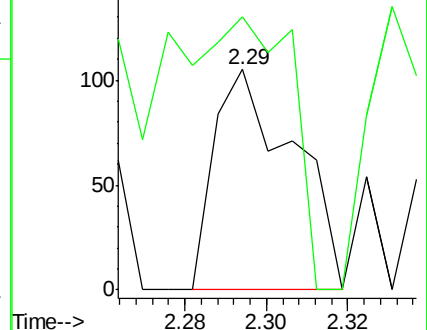
56 100

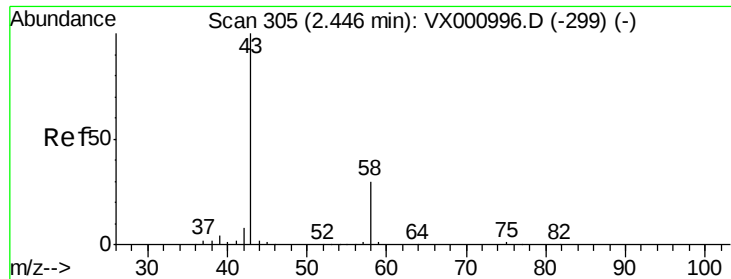
55 184.5 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 6.09 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

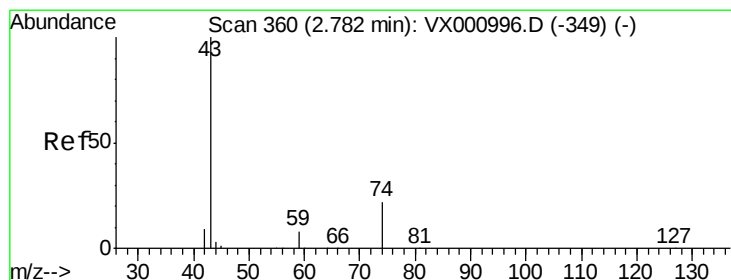
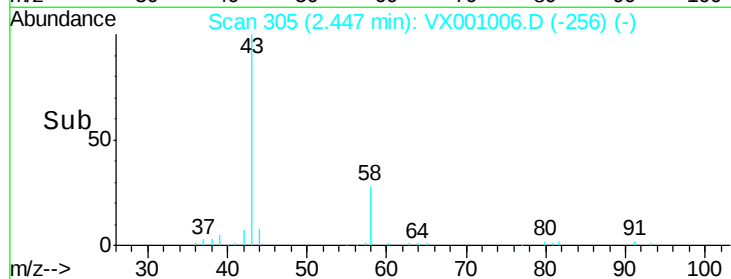
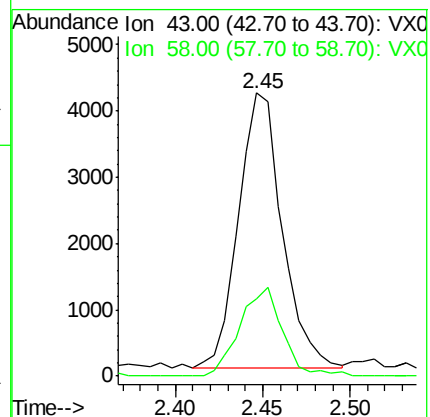
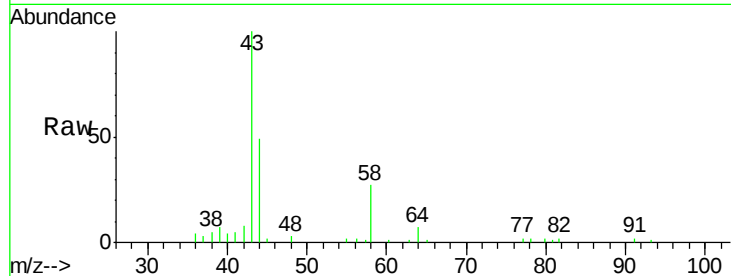
ClientSampled :

Tot Ion: 43 Resp: 7260

Ion Ratio Lower Upper

43 100

58 28.1 23.7 35.5



#18

Methyl Acetate

Concen: 1.04 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001006.D

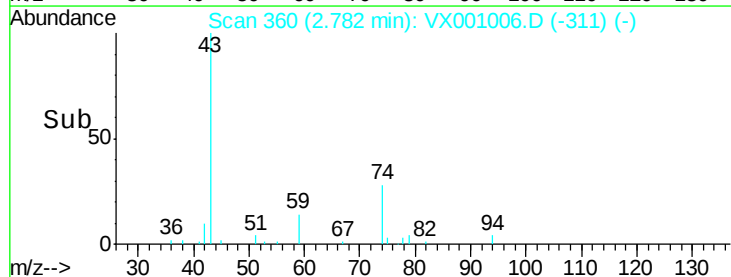
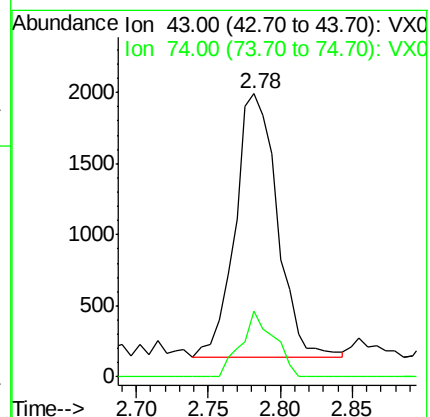
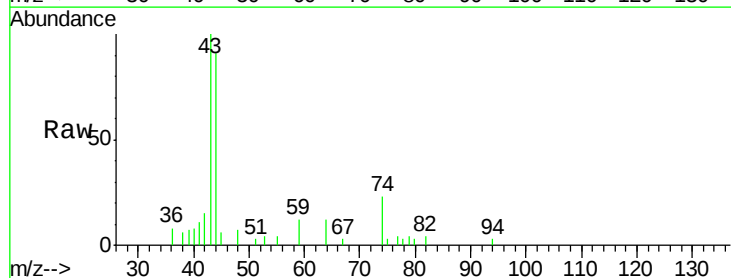
Acq: 20 Apr 2018 14:10

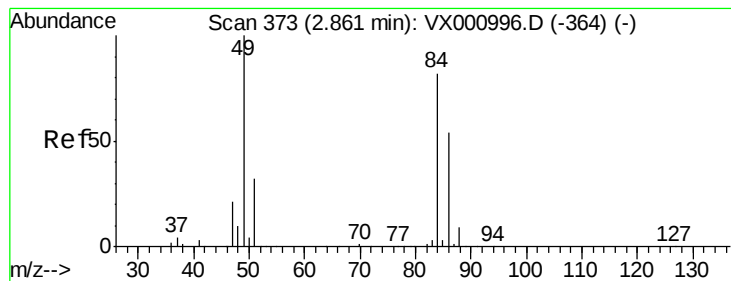
Tgt Ion: 43 Resp: 3748

Ion Ratio Lower Upper

43 100

74 19.5 18.3 27.5





#20

Methylene Chloride

Concen: 10.15 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 28569

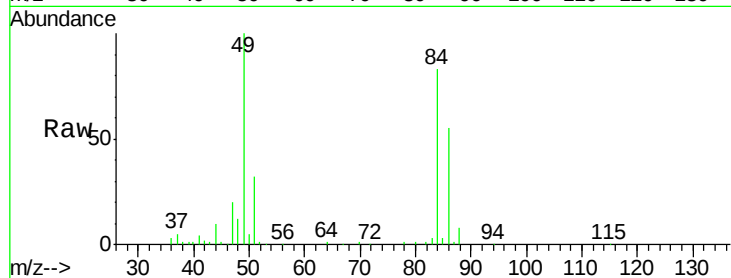
Ion Ratio Lower Upper

84 100

49 120.9 97.1 145.7

51 38.3 30.8 46.2

86 66.7 52.3 78.5



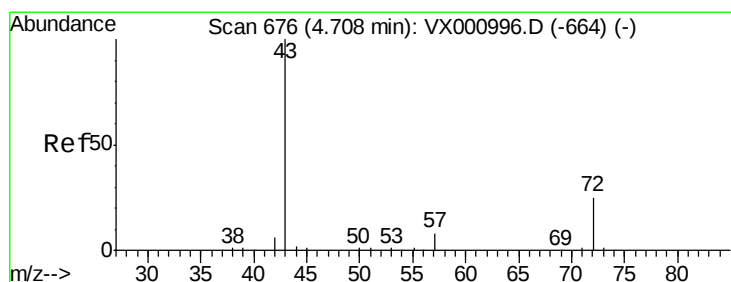
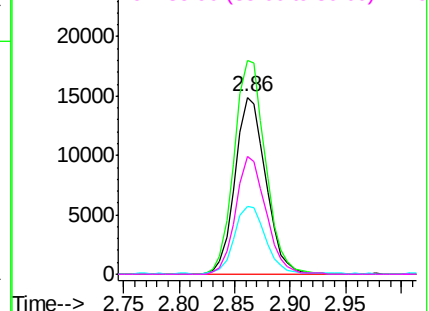
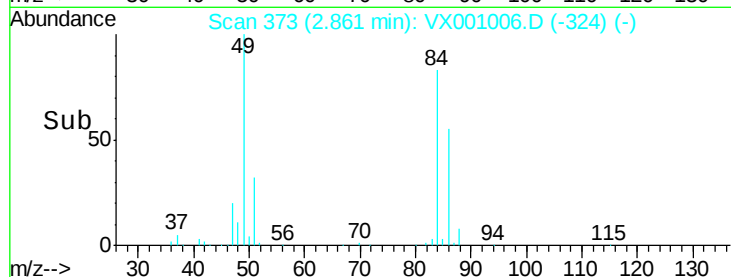
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.38 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX001006.D

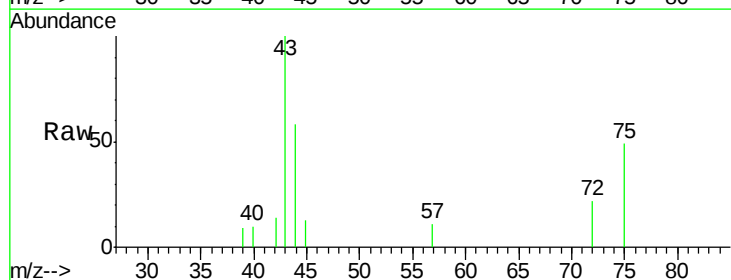
Acq: 20 Apr 2018 14:10

Tgt Ion: 43 Resp: 2575

Ion Ratio Lower Upper

43 100

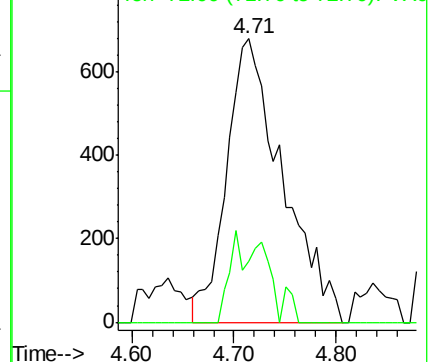
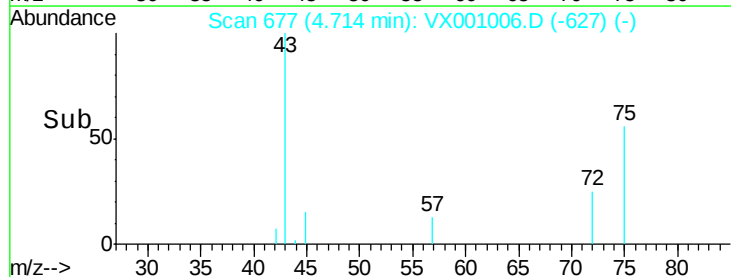
72 21.6 19.9 29.9

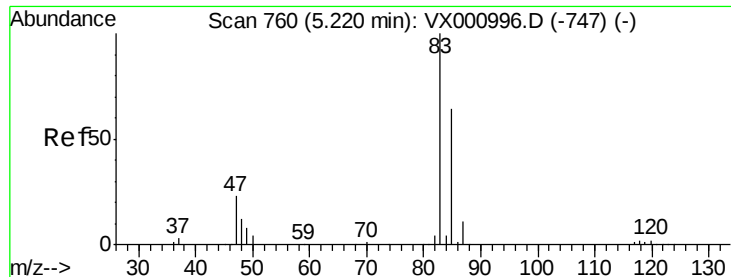


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

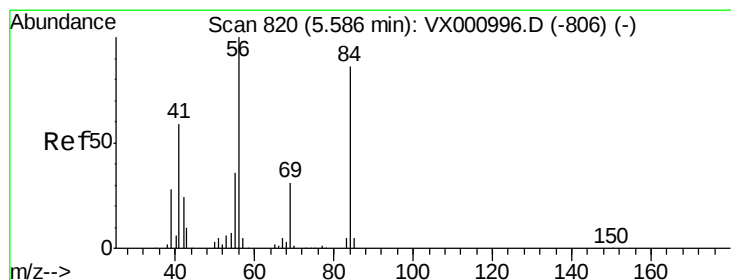
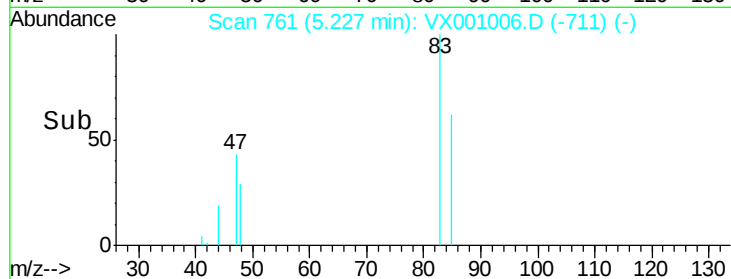
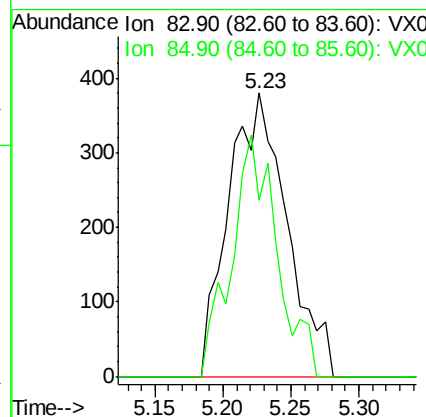
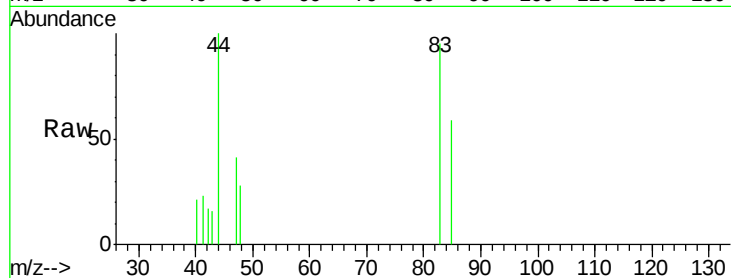




#30
Chloroform
Concen: 0.23 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX001006.D
Acq: 20 Apr 2018 14:10

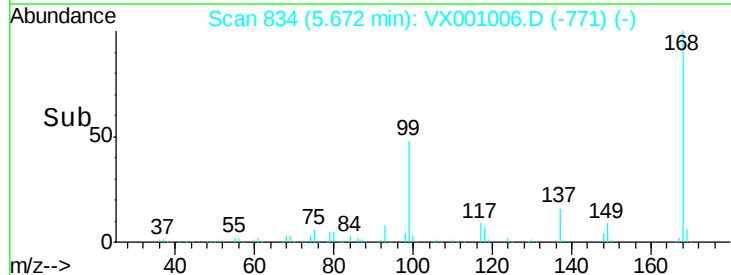
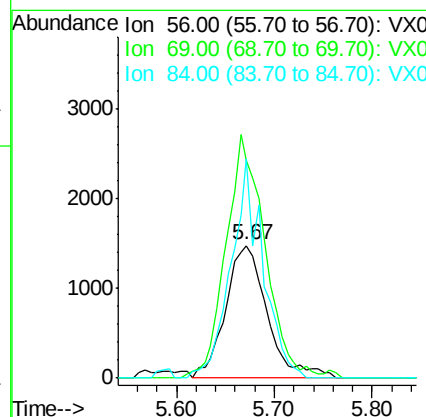
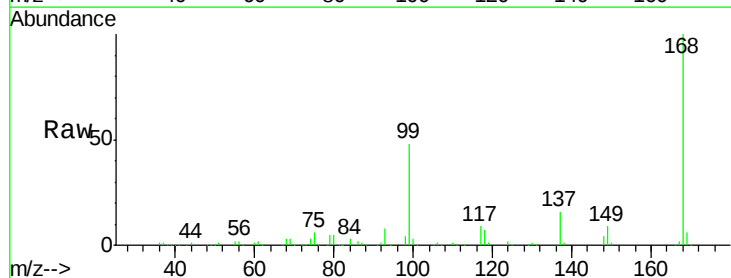
Instrument :
MSVOA_X
ClientSampled :

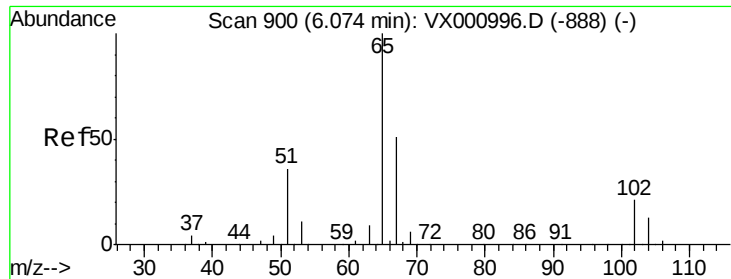
Tot Ion: 83 Resp: 1141
Ion Ratio Lower Upper
83 100
85 62.1 51.3 76.9



#31
Cyclohexane
Concen: 0.98 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX001006.D
Acq: 20 Apr 2018 14:10

Tgt Ion: 56 Resp: 4365
Ion Ratio Lower Upper
56 100
69 165.2 24.6 36.8#
84 165.9 69.0 103.6#

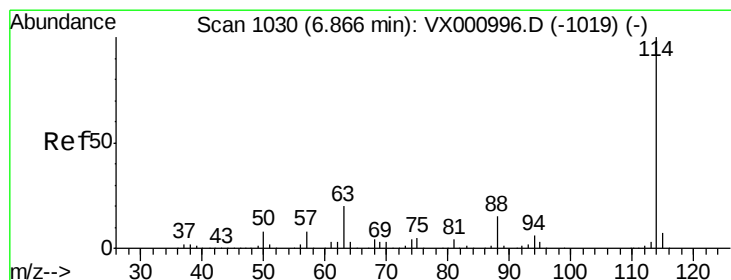
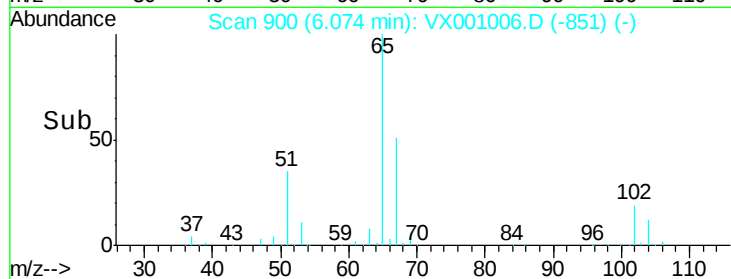
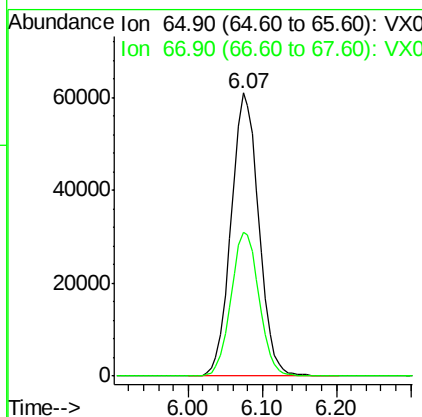
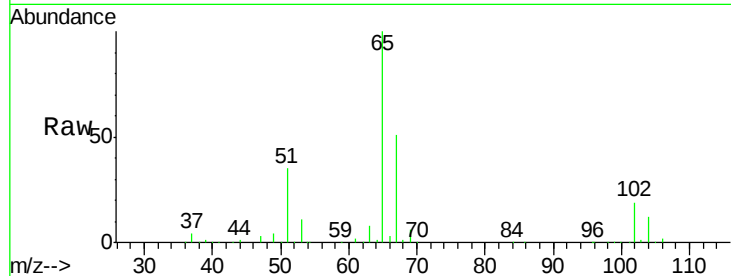




#33
 1,2-Dichloroethane-d4
 Concen: 50.25 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001006.D
 Acq: 20 Apr 2018 14:10

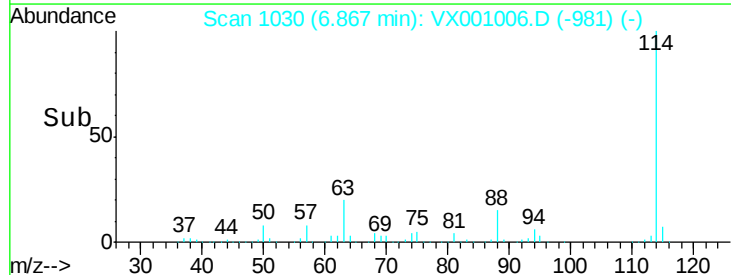
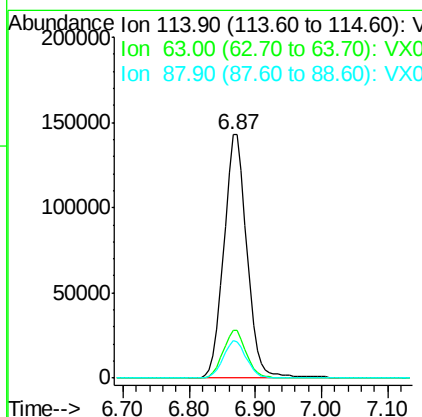
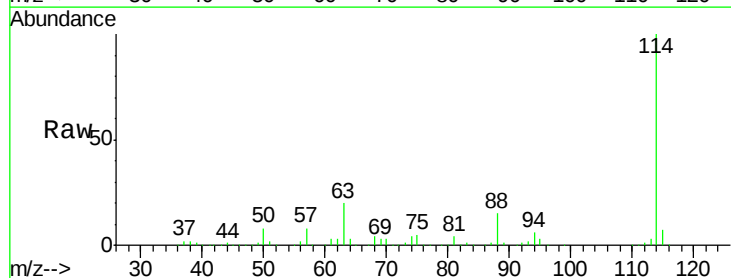
Instrument :
 MSVOA_X
 ClientSampleId :

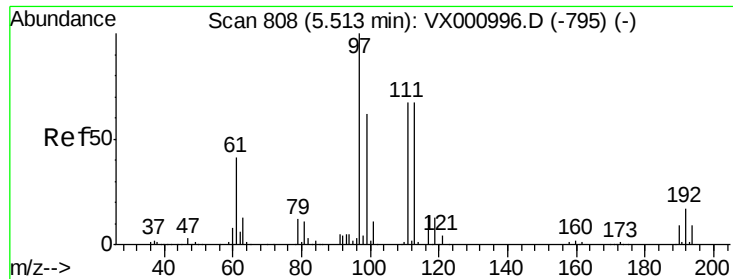
Tot Ion: 65 Resp: 159074
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001006.D
 Acq: 20 Apr 2018 14:10

Tgt Ion: 114 Resp: 346990
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.4
 88 15.2 0.0 29.8





#35

Dibromofluoromethane

Concen: 46.95 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampleId :

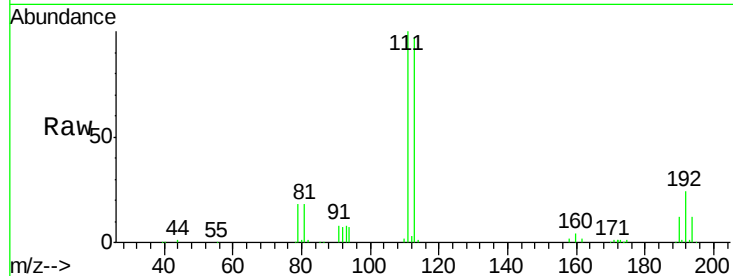
Tot Ion:113 Resp: 124237

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

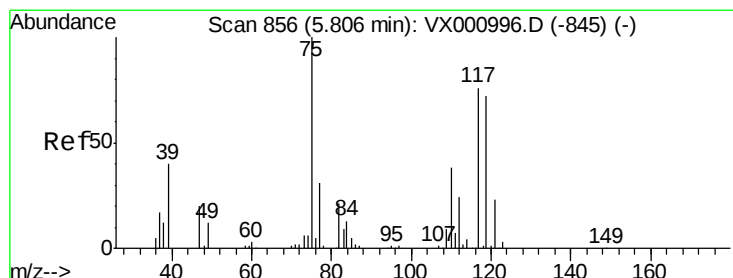
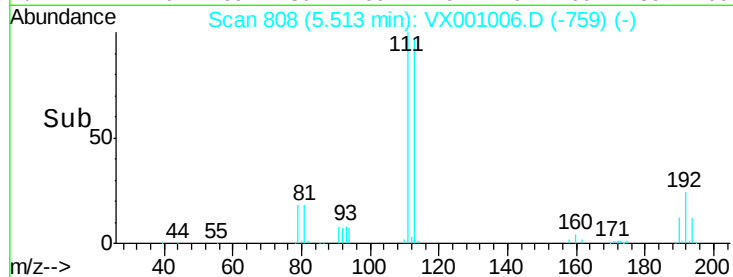
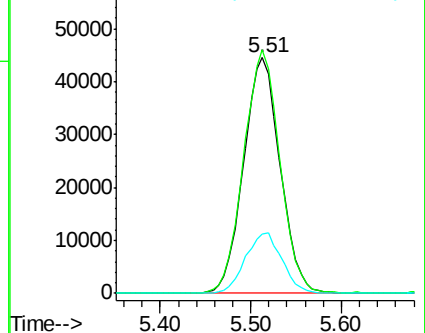
192 25.6 20.4 30.6



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: 3.93 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

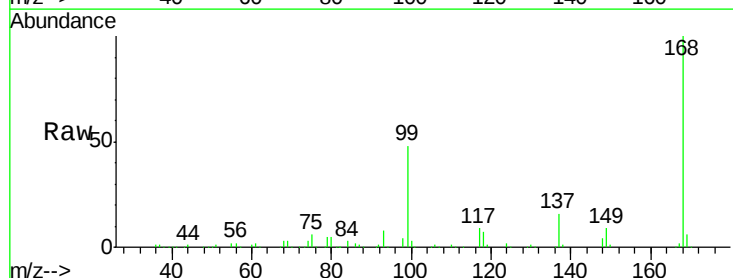
Tgt Ion: 75 Resp: 16010

Ion Ratio Lower Upper

75 100

110 9.7 18.7 56.1#

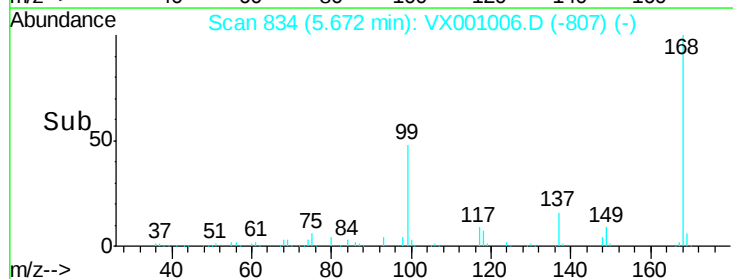
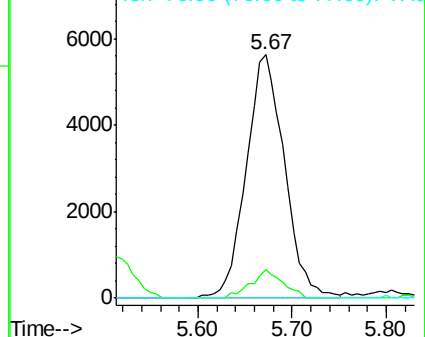
77 0.0 25.0 37.4#

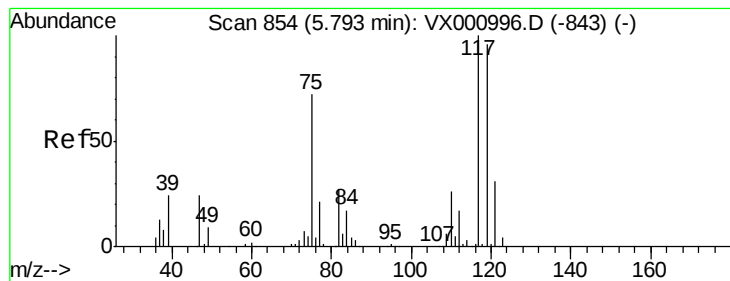


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.43 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampled :

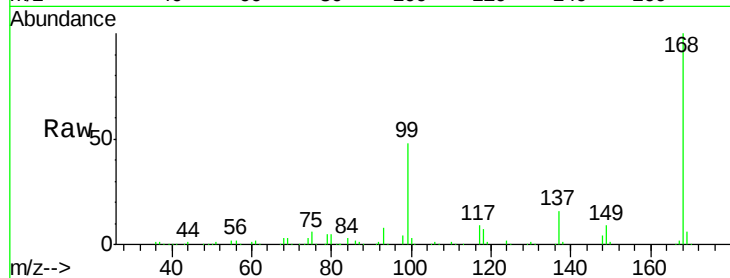
Tot Ion:117 Resp: 22435

Ion Ratio Lower Upper

117 100

119 6.7 76.5 114.7#

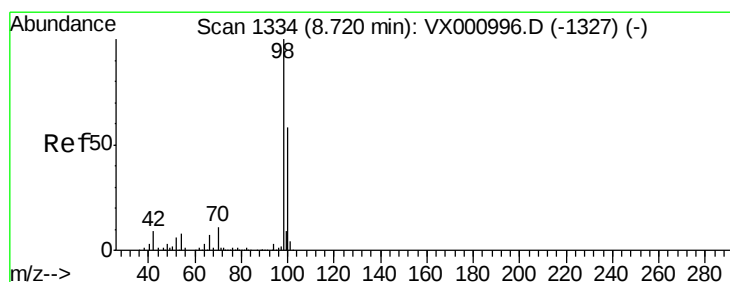
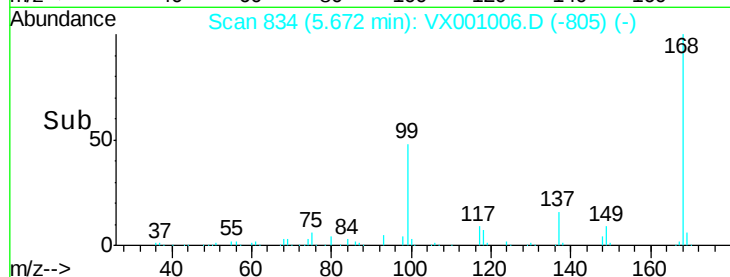
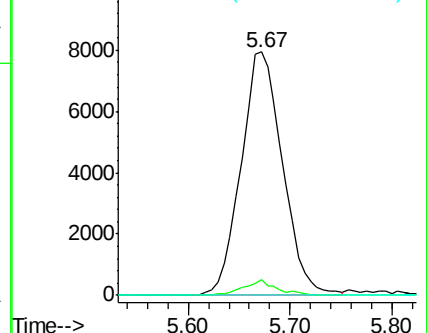
121 0.0 24.5 36.7#



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: 49.99 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001006.D

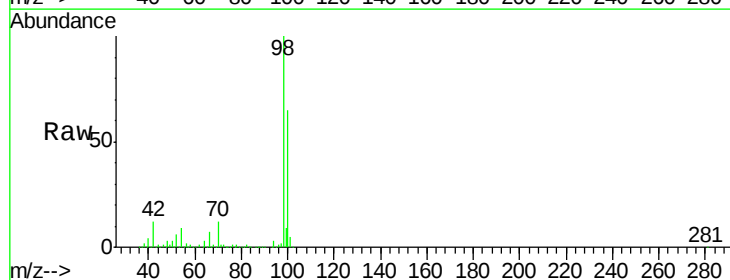
Acq: 20 Apr 2018 14:10

Tgt Ion: 98 Resp: 489103

Ion Ratio Lower Upper

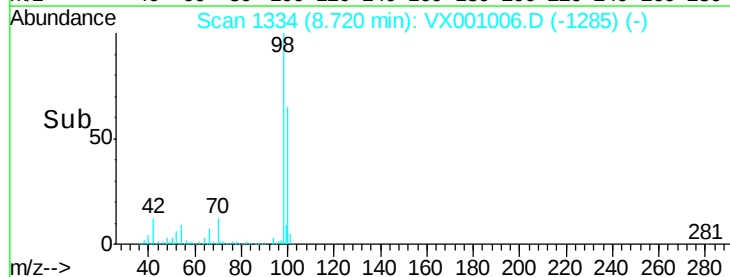
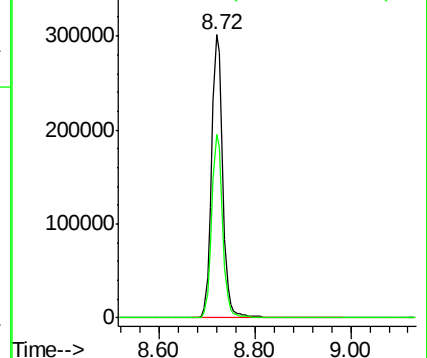
98 100

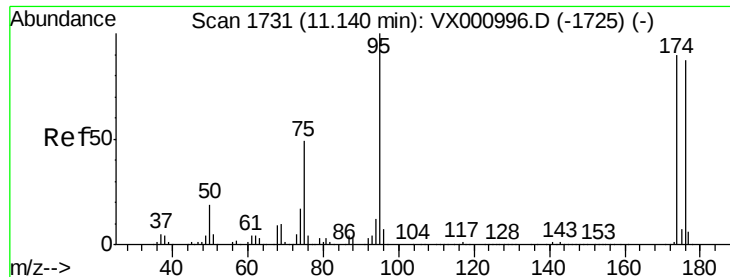
100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

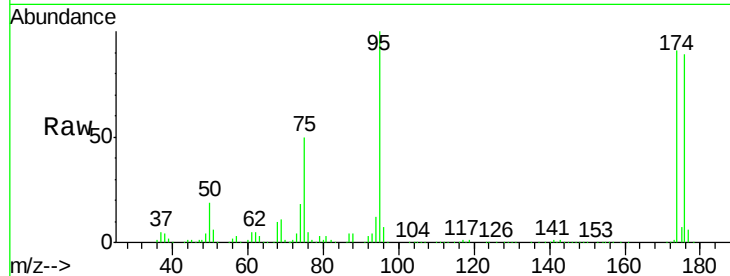




#62
4-Bromofluorobenzene
Concen: 45.22 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001006.D
Acq: 20 Apr 2018 14:10

Instrument :
MSVOA_X
ClientSampleId :

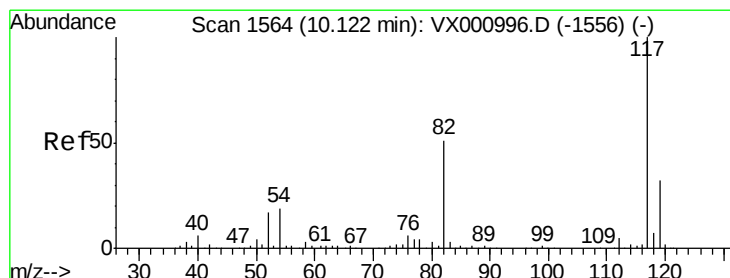
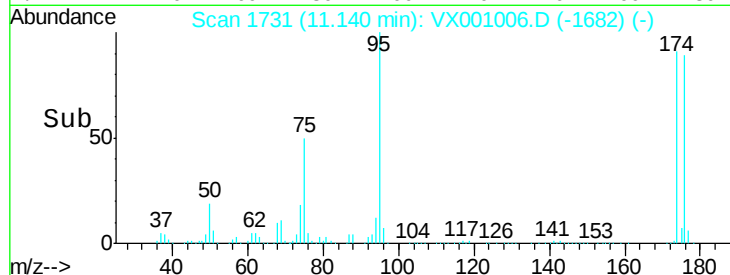
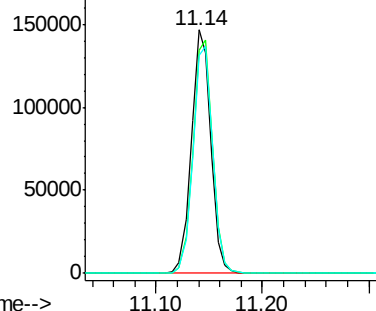
Tot Ion	95	Resp	185677
Ion Ratio	Lower	Upper	
95	100		
174	96.9	0.0	198.4
176	94.8	0.0	192.0



Abundance Ion 94.90 (94.60 to 95.60): VX000996.D (-1725) (-)

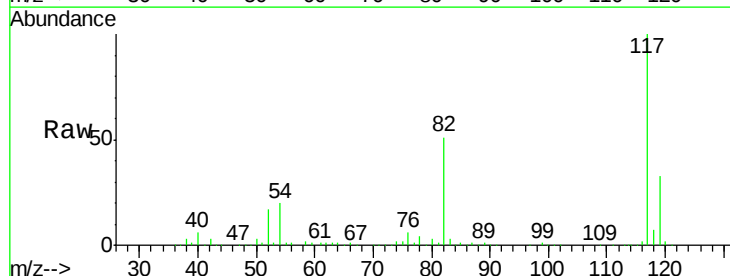
Ion 173.80 (173.50 to 174.50): VX000996.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000996.D (-1725) (-)



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001006.D
Acq: 20 Apr 2018 14:10

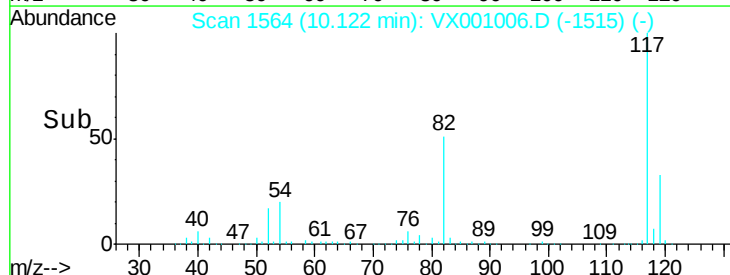
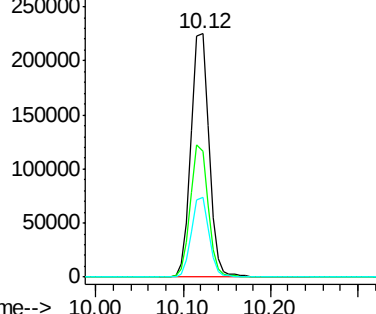
Tgt Ion	117	Resp	320430
Ion Ratio	Lower	Upper	
117	100		
82	51.5	40.6	60.8
119	32.8	26.0	39.0

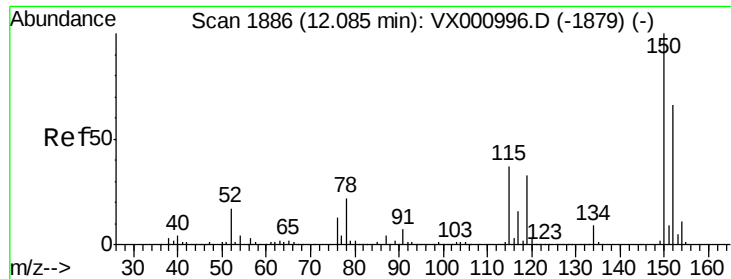


Abundance Ion 116.90 (116.60 to 117.60): VX000996.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000996.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000996.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampleId :

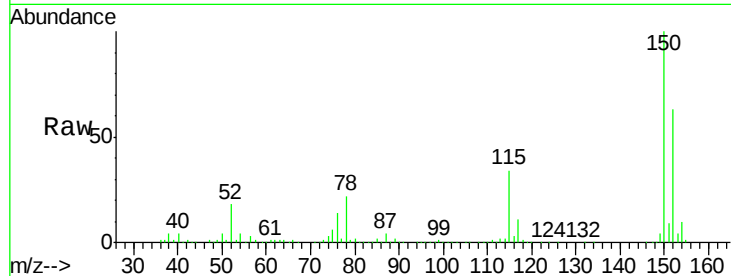
Tot Ion:152 Resp: 202972

Ion Ratio Lower Upper

152 100

115 53.7 38.2 114.6

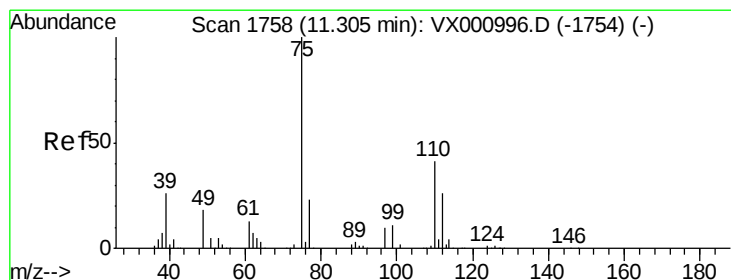
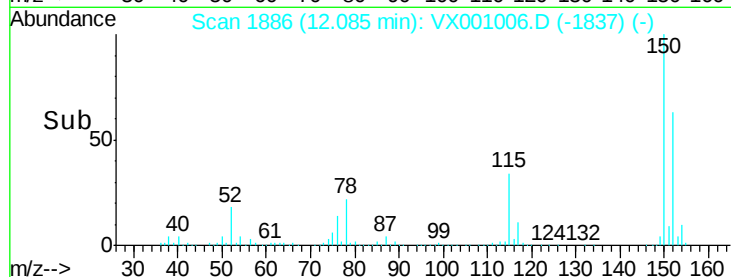
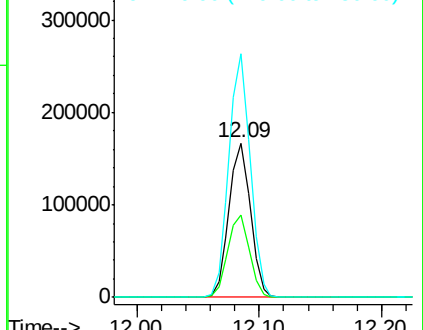
150 156.4 0.0 350.4



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: 26.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001006.D

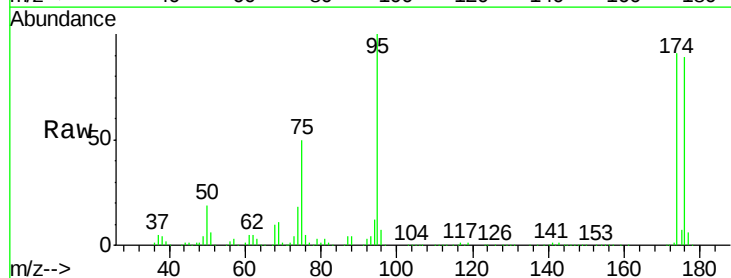
Acq: 20 Apr 2018 14:10

Tgt Ion: 75 Resp: 92178

Ion Ratio Lower Upper

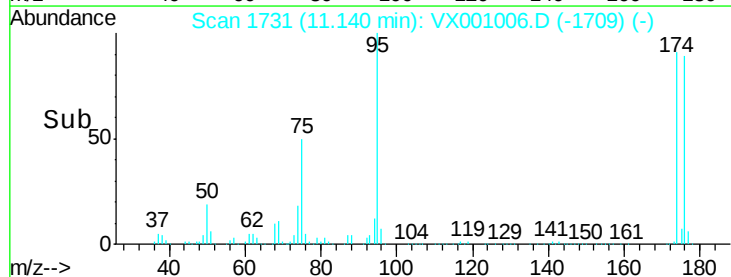
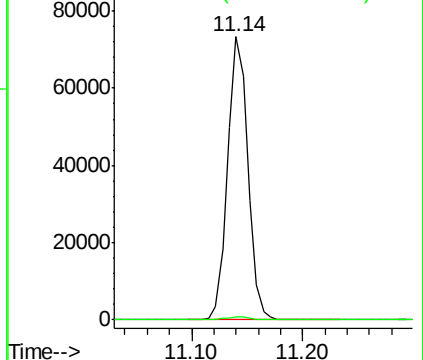
75 100

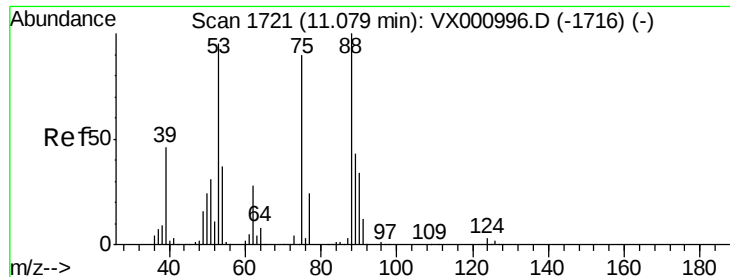
77 1.2 19.6 58.7#



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: 78.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampled :

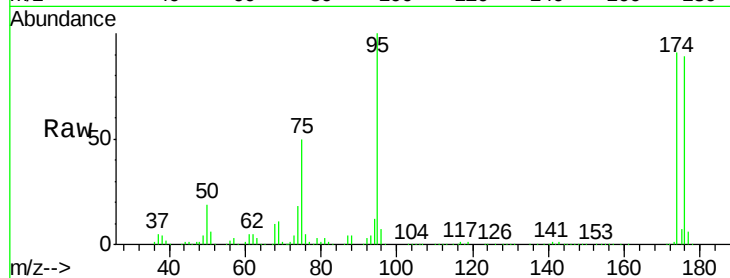
Tot Ion: 75 Resp: 92178

Ion Ratio Lower Upper

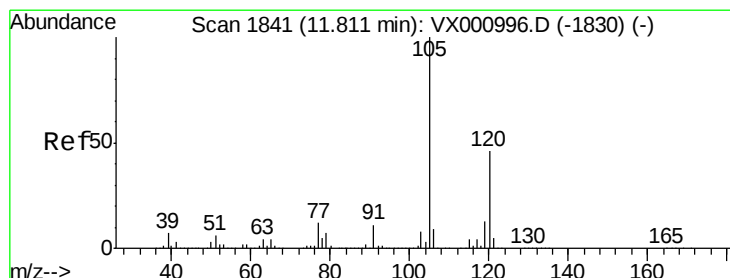
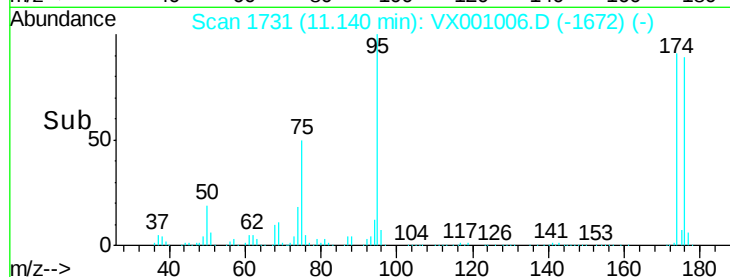
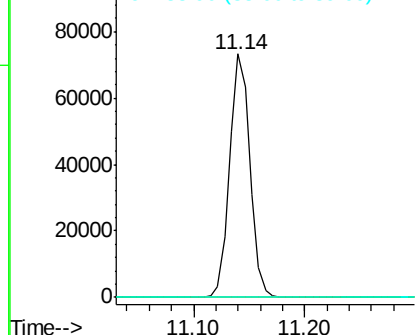
75 100

53 0.0 83.4 125.2#

89 0.0 39.7 59.5#



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: 0.33 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX001006.D

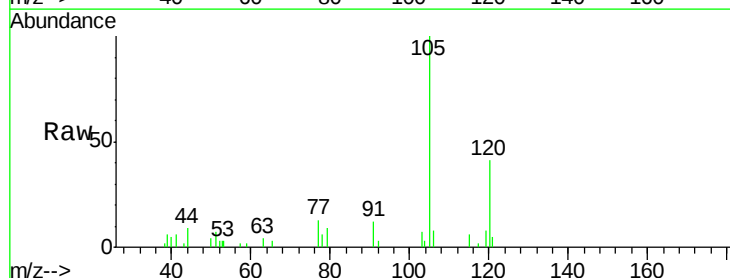
Acq: 20 Apr 2018 14:10

Tgt Ion: 105 Resp: 3800

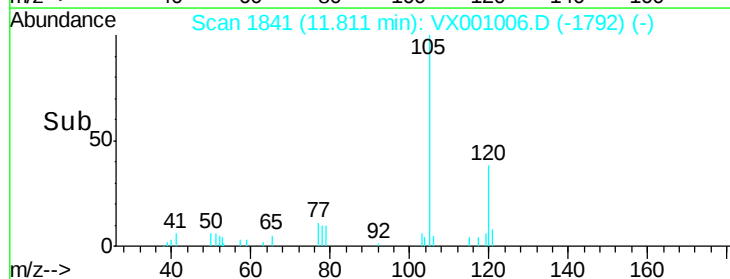
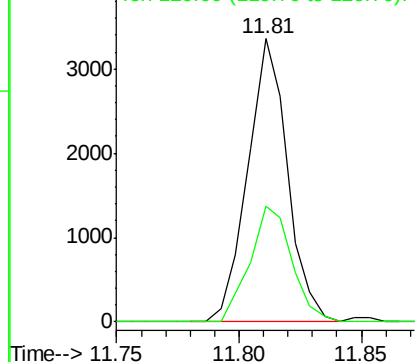
Ion Ratio Lower Upper

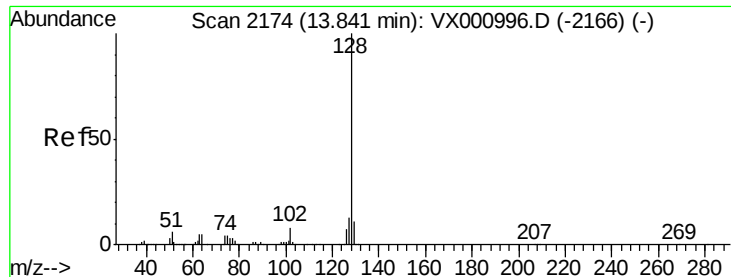
105 100

120 43.3 23.0 69.0



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





#95

Naphthalene

Concen: 10.13 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001006.D

Acq: 20 Apr 2018 14:10

Instrument :

MSVOA_X

ClientSampleId :

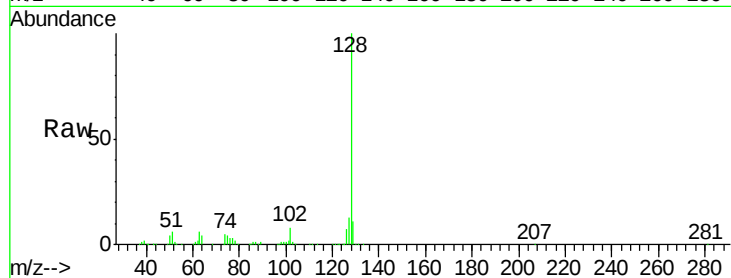
Tot Ion:128 Resp: 146020

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

129 10.9 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

