

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070218\
 Data File : VX003121.D
 Acq On : 02 Jul 2018 12:21
 Operator : JC/MD
 Sample : VX0702WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0702WBL01

Quant Time: Jul 03 06:54:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	361809	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185447	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	165305	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	
35) Dibromofluoromethane	5.51	113	138355	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	8.72	98	504515	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
62) 4-Bromofluorobenzene	11.14	95	174068	43.14	ug/l	0.00
Spiked Amount			Recovery	=	86.28%	

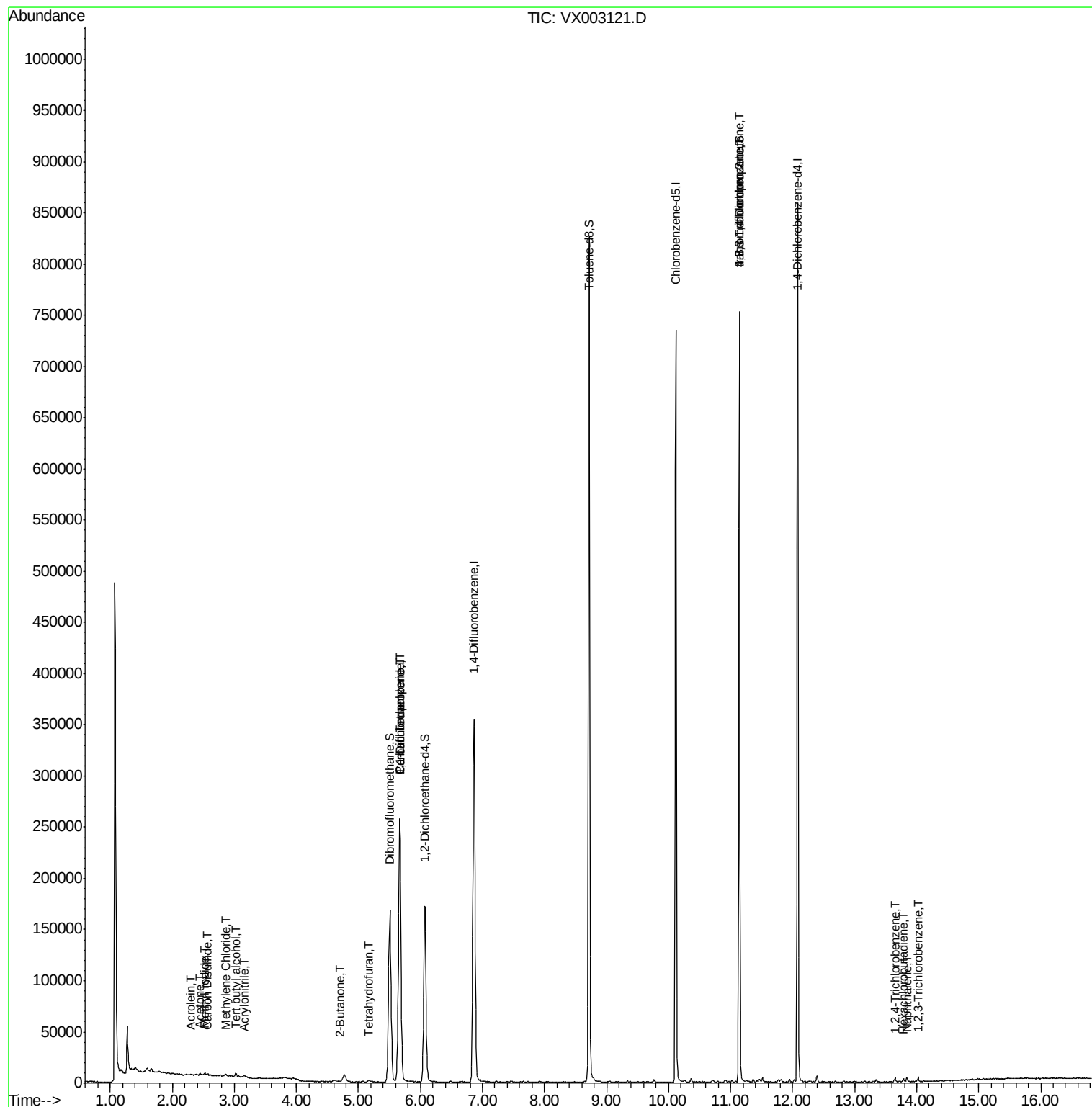
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	206	Below Cal	#	43
3) Chloromethane	1.32	50	906	Below Cal	#	85
5) Bromomethane	1.66	94	1986	Below Cal		91
6) Chloroethane	1.65	64	668	Below Cal	#	43
10) Methyl Iodide	2.52	142	2531	6.98	ug/l	# 93
11) Tert butyl alcohol	3.02	59	2179	3.00	ug/l	# 87
13) Acrolein	2.29	56	475	5.39	ug/l	# 81
15) Acrylonitrile	3.15	53	860	0.55	ug/l	# 79
16) Acetone	2.45	43	3462	2.29	ug/l	# 76
17) Carbon Disulfide	2.57	76	2491	0.36	ug/l	# 94
20) Methylene Chloride	2.86	84	908	0.31	ug/l	# 91
25) 2-Butanone	4.70	43	483	0.22	ug/l	# 44
29) Tetrahydrofuran	5.17	42	1776	1.24	ug/l	# 75
36) 1,1-Dichloropropene	5.67	75	16942	4.27	ug/l	# 51
38) Carbon Tetrachloride	5.66	117	23597	5.42	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	88735	26.42	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	88735	74.85	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1104	0.23	ug/l	97
94) Hexachlorobutadiene	13.79	225	561	0.24	ug/l	92
95) Naphthalene	13.83	128	2666	0.21	ug/l	# 93
96) 1,2,3-Trichlorobenzene	14.02	180	1100	0.23	ug/l	97

(#) = 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# 833

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

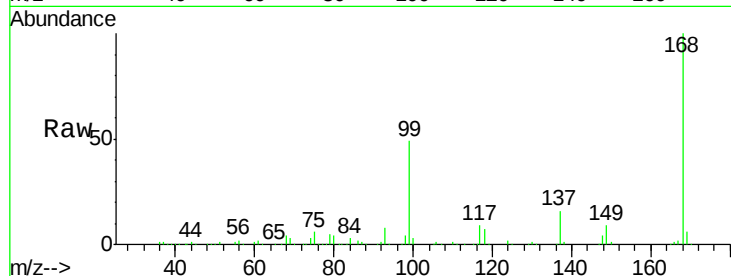
VX0702WBL01

Tot Ion:168 Resp: 263716

Ion Ratio Lower Upper

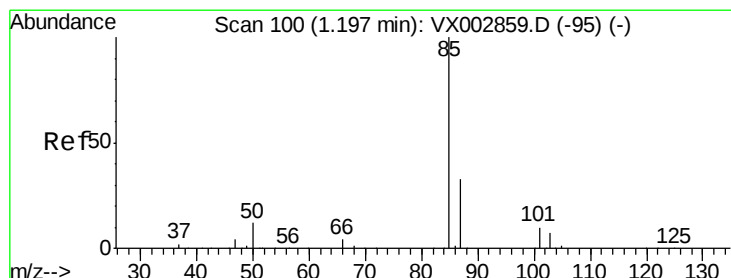
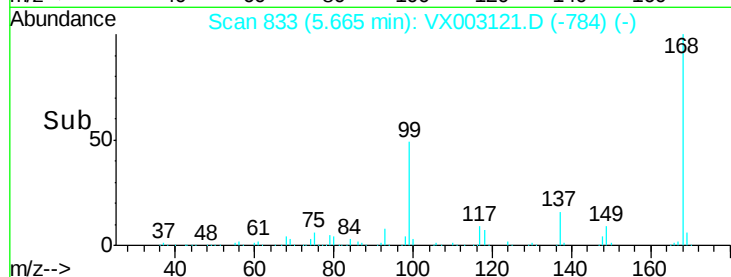
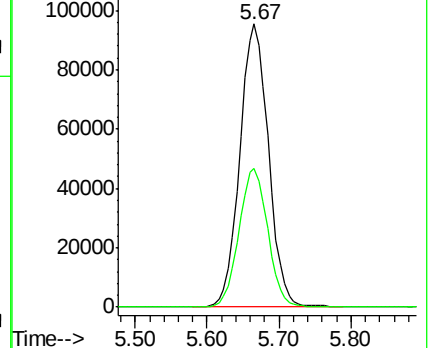
168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003121.D

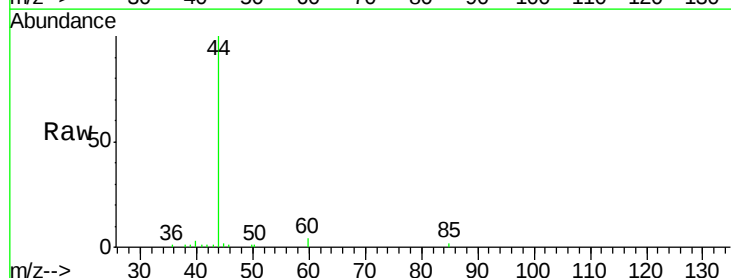
Acq: 02 Jul 2018 12:21

Tgt Ion: 85 Resp: 206

Ion Ratio Lower Upper

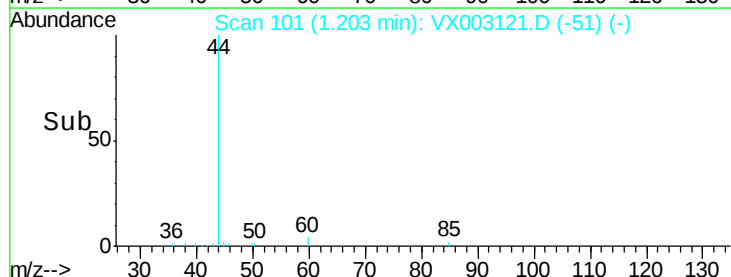
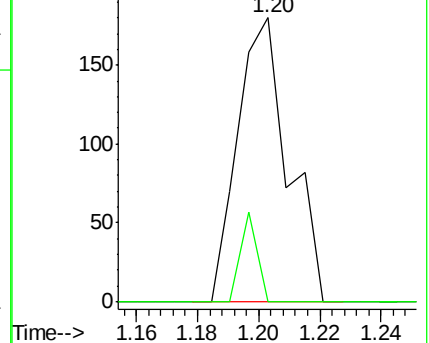
85 100

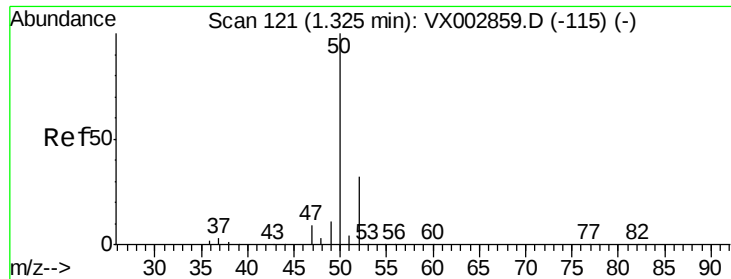
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

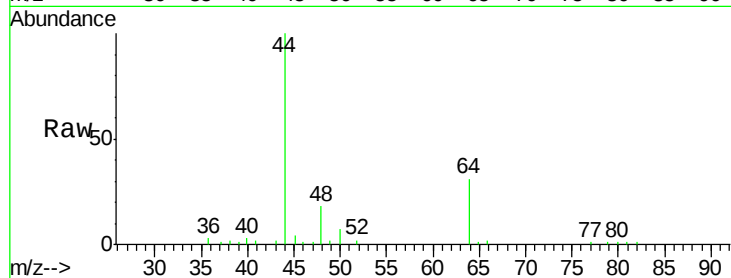
VX0702WBL01

Tot Ion: 50 Resp: 906

Ion Ratio Lower Upper

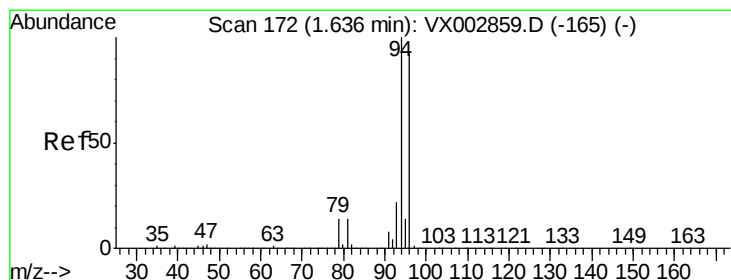
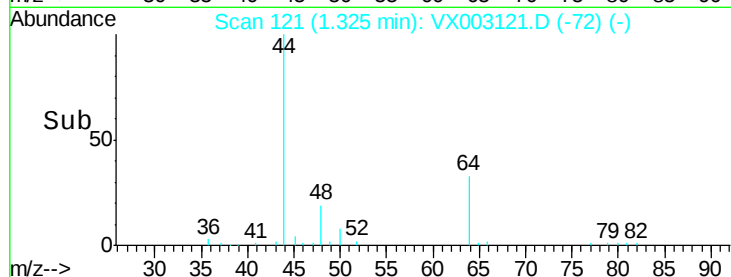
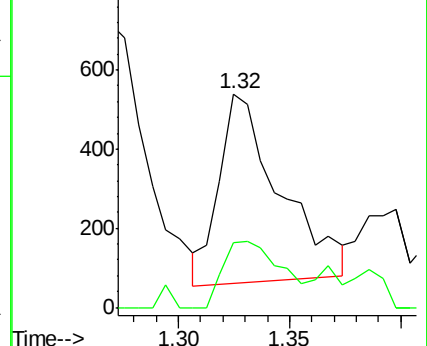
50 100

52 40.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003121.D

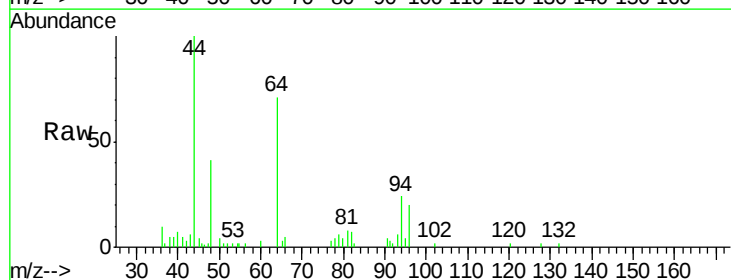
Acq: 02 Jul 2018 12:21

Tgt Ion: 94 Resp: 1986

Ion Ratio Lower Upper

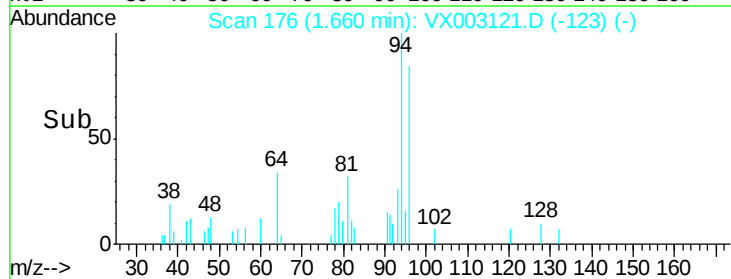
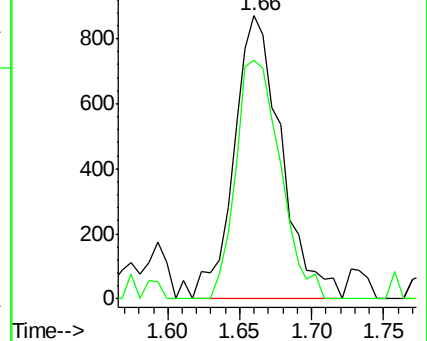
94 100

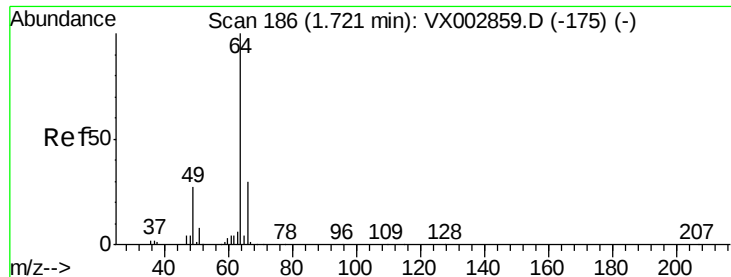
96 84.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

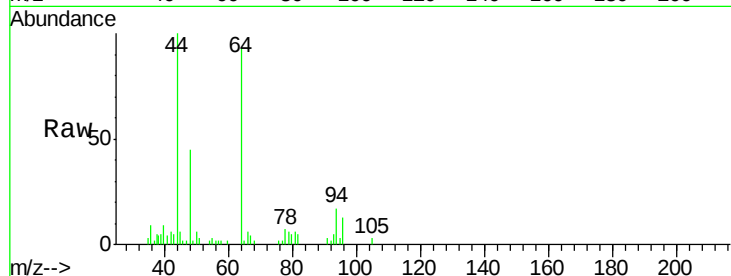
VX0702WBL01

Tot Ion: 64 Resp: 668

Ion Ratio Lower Upper

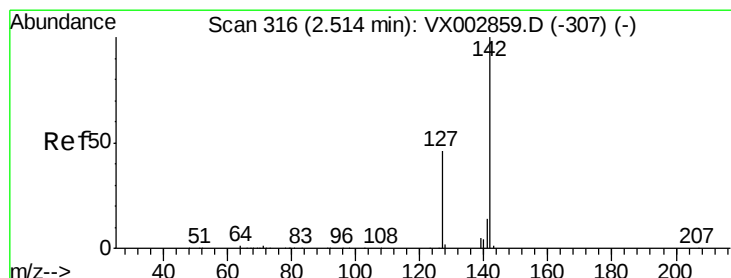
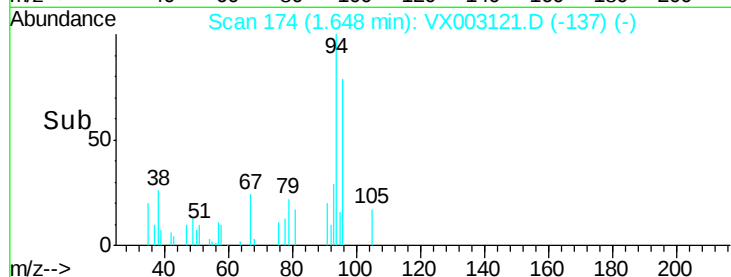
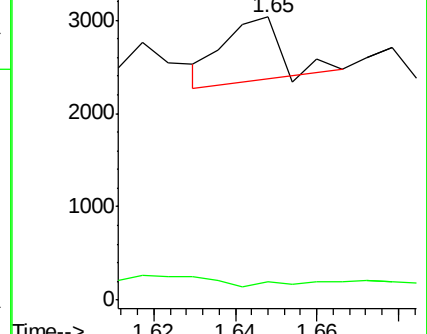
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.98 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

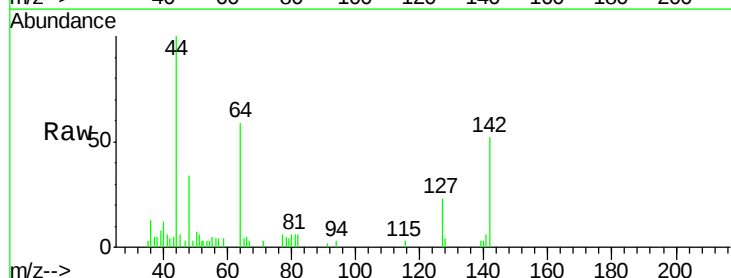
Tgt Ion: 142 Resp: 2531

Ion Ratio Lower Upper

142 100

127 42.0 36.6 55.0

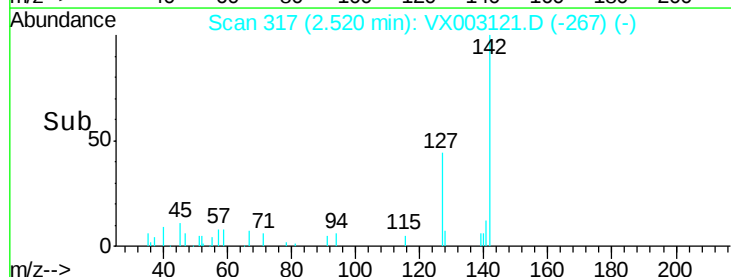
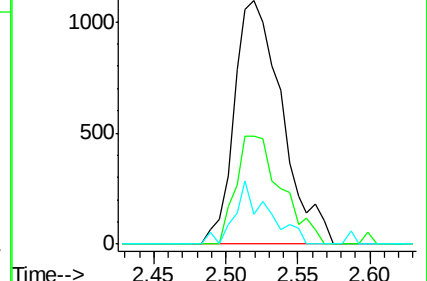
141 18.1 11.3 16.9#

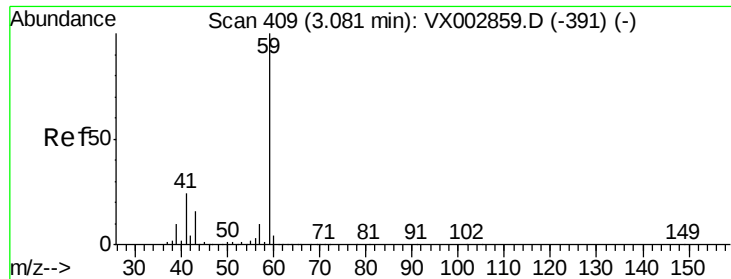


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



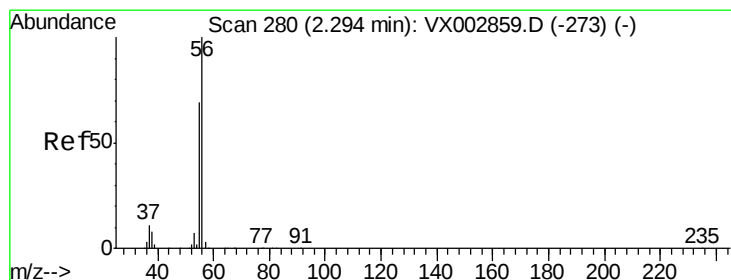
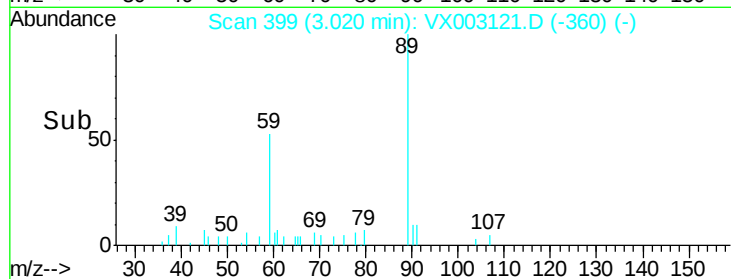
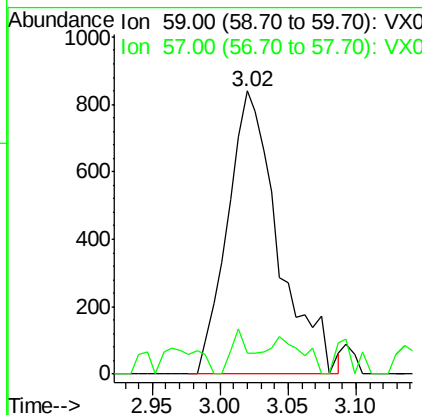
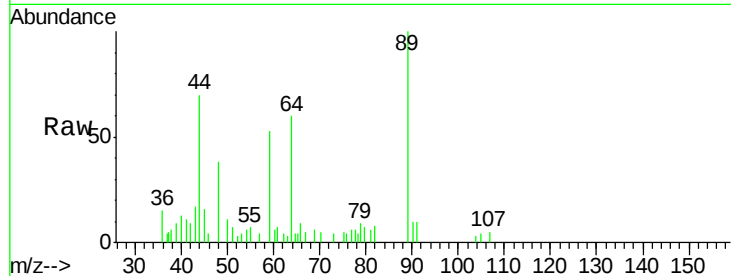


#11

Tert butyl alcohol
 Concen: 3.00 ug/l
 RT: 3.02 min Scan# 399
 Delta R.T. -0.06 min
 Lab File: VX003121.D
 Acq: 02 Jul 2018 12:21

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0702WBL01

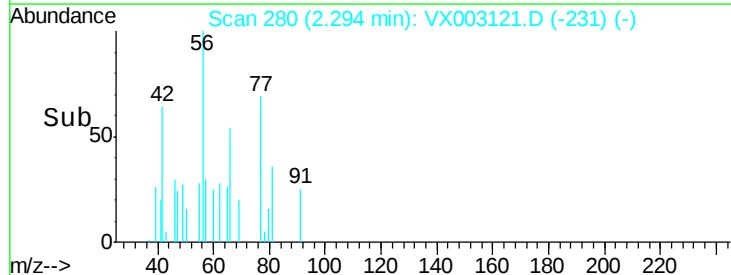
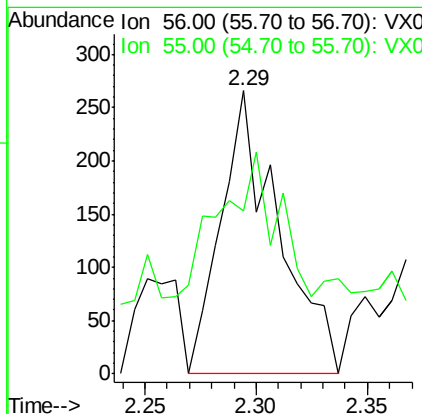
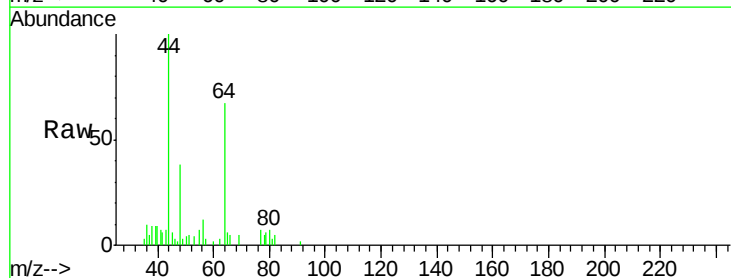
Tot Ion: 59 Resp: 2179
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.2 12.2#

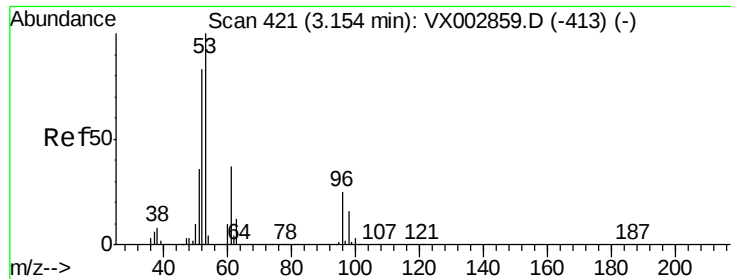


#13

Acrolein
 Concen: 5.39 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003121.D
 Acq: 02 Jul 2018 12:21

Tgt Ion: 56 Resp: 475
 Ion Ratio Lower Upper
 56 100
 55 55.2 57.0 85.4#





#15

Acrylonitrile

Concen: 0.55 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampled :

VX0702WBL01

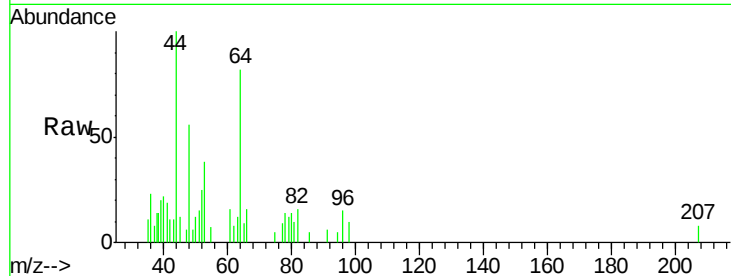
Tot Ion: 53 Resp: 860

Ion Ratio Lower Upper

53 100

52 91.3 66.7 100.1

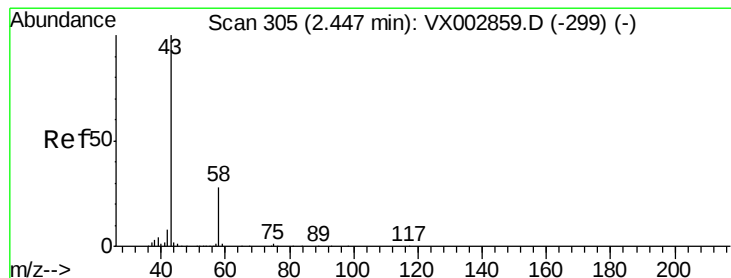
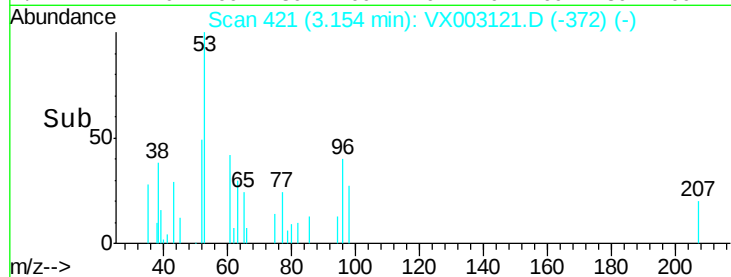
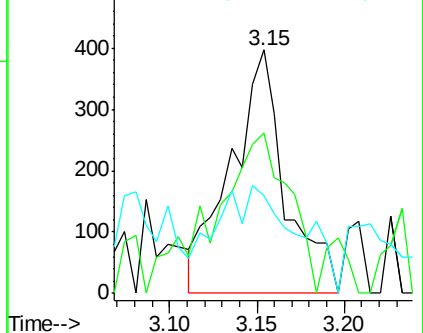
51 65.9 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.29 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003121.D

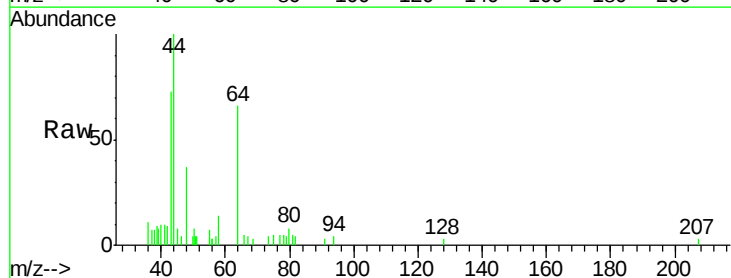
Acq: 02 Jul 2018 12:21

Tgt Ion: 43 Resp: 3462

Ion Ratio Lower Upper

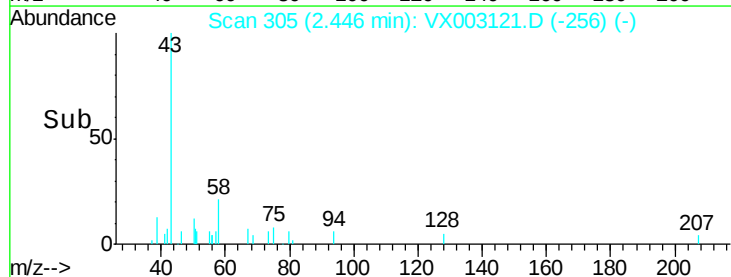
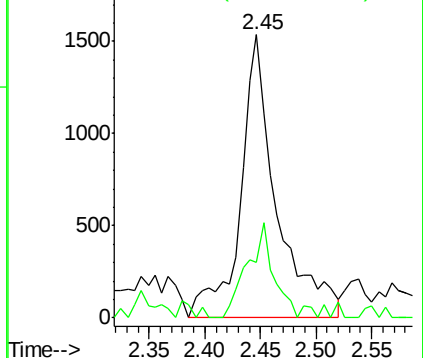
43 100

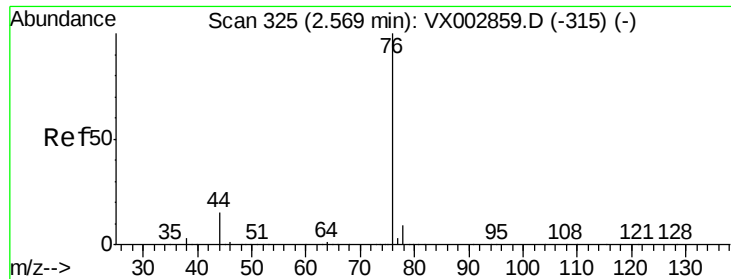
58 15.2 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

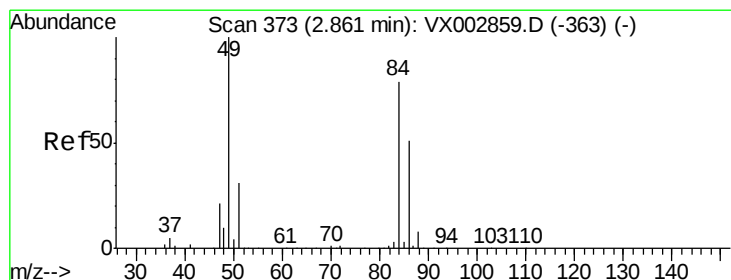
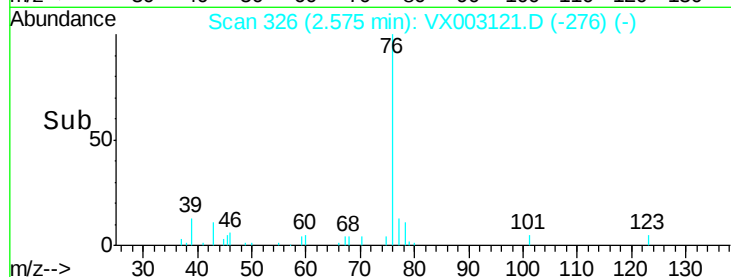
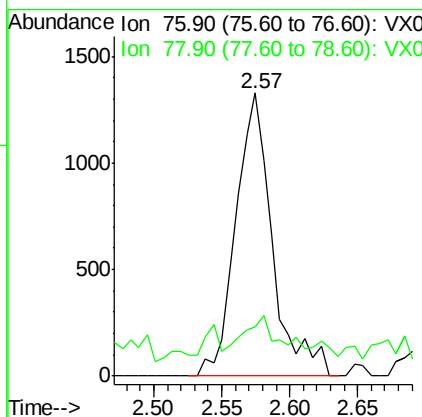
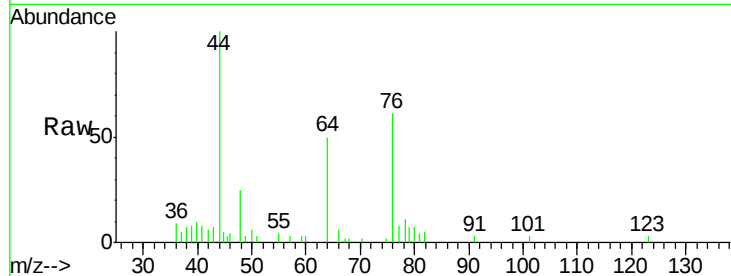




#17
Carbon Disulfide
Concen: 0.36 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX003121.D
Acq: 02 Jul 2018 12:21

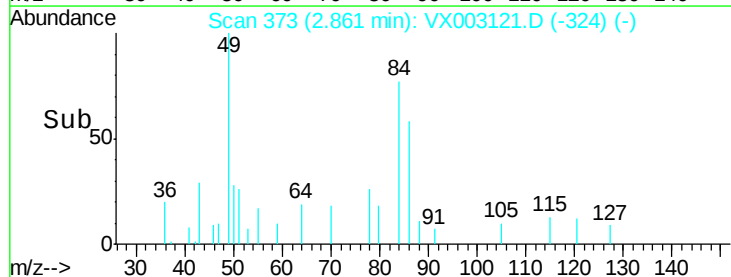
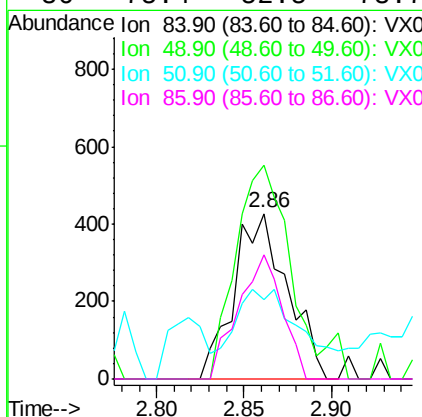
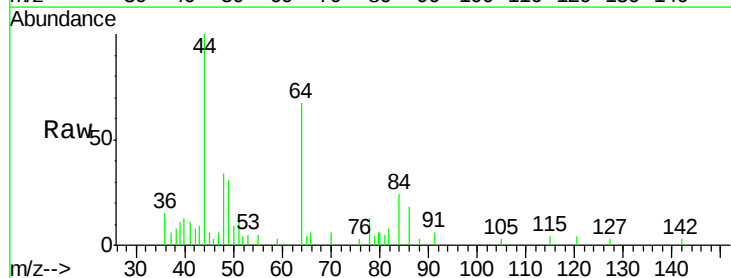
Instrument :
MSVOA_X
ClientSampleId :
VX0702WBL01

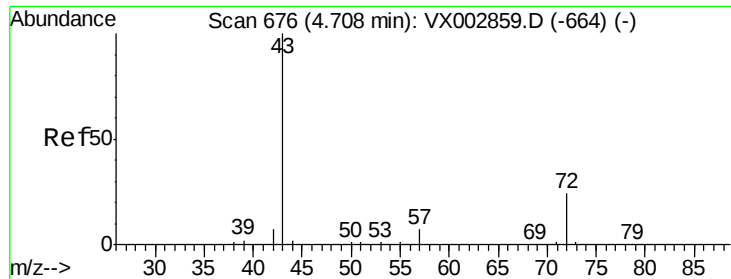
Tot Ion: 76 Resp: 2491
Ion Ratio Lower Upper
76 100
78 10.8 6.9 10.3#



#20
Methylene Chloride
Concen: 0.31 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003121.D
Acq: 02 Jul 2018 12:21

Tgt Ion: 84 Resp: 908
Ion Ratio Lower Upper
84 100
49 129.3 107.8 161.6
51 31.1 32.8 49.2#
86 75.4 52.5 78.7





#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampled :

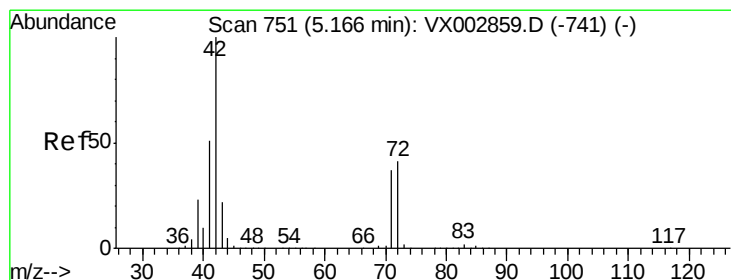
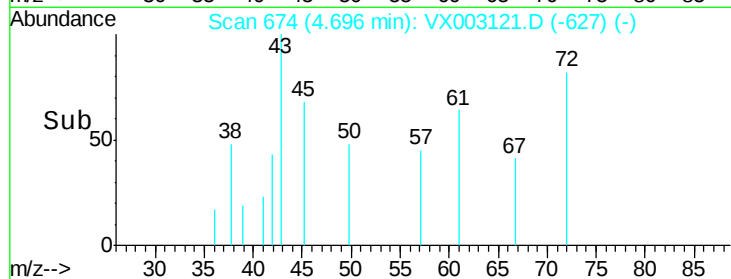
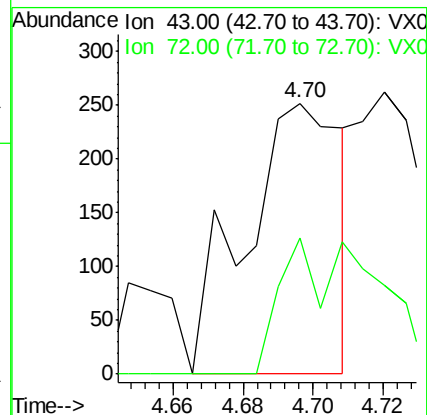
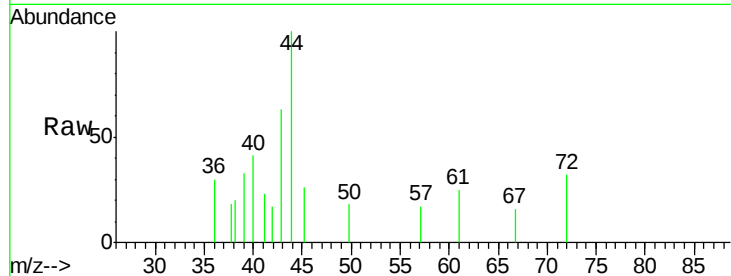
VX0702WBL01

Tot Ion: 43 Resp: 483

Ion Ratio Lower Upper

43 100

72 50.4 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.24 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

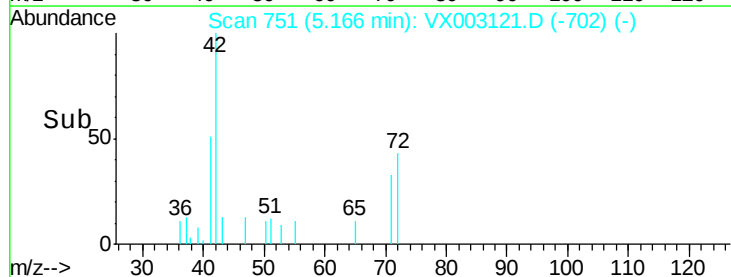
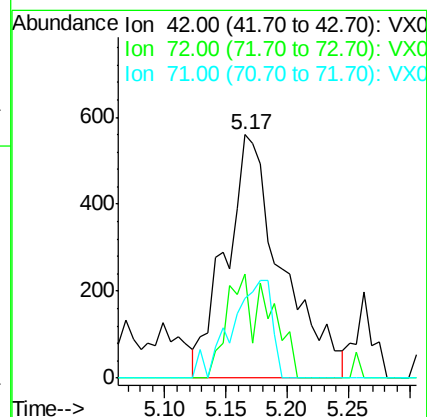
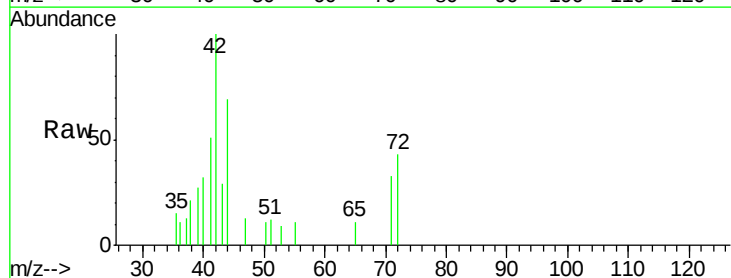
Tgt Ion: 42 Resp: 1776

Ion Ratio Lower Upper

42 100

72 17.8 32.0 48.0#

71 29.2 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 45.35 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

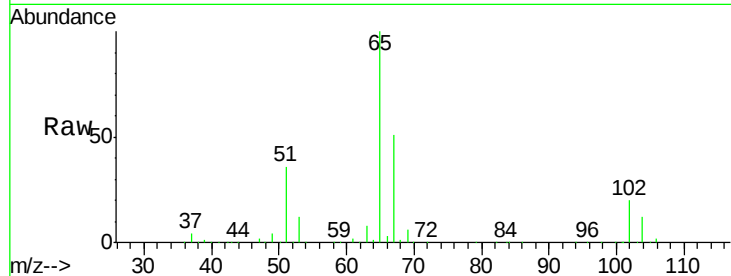
VX0702WBL01

Tot Ion: 65 Resp: 165305

Ion Ratio Lower Upper

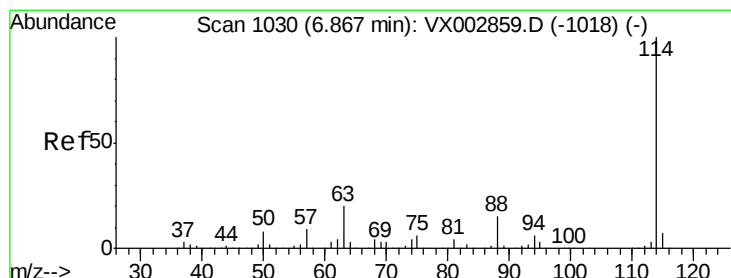
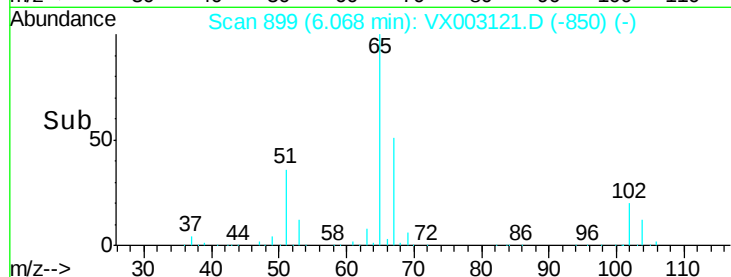
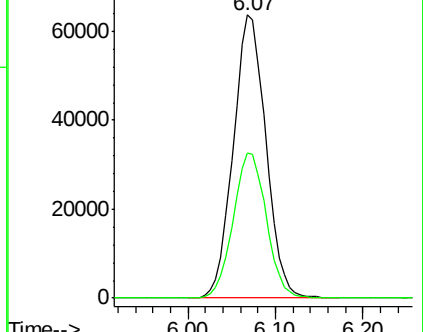
65 100

67 51.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

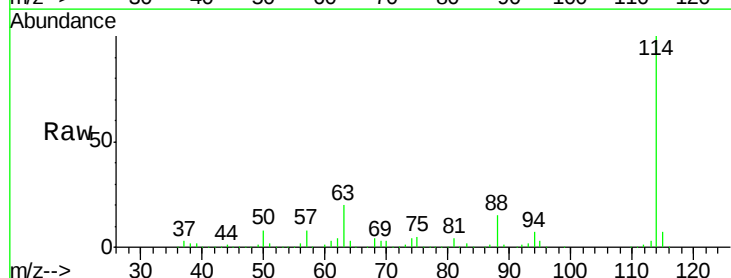
Tgt Ion: 114 Resp: 361809

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

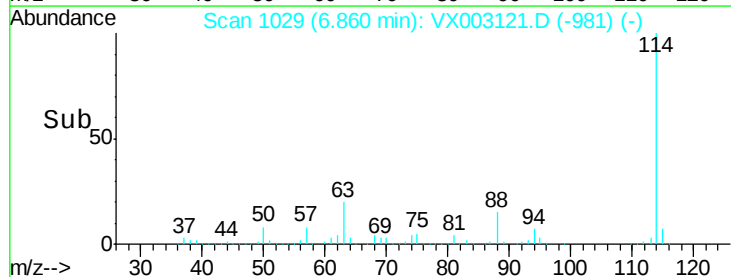
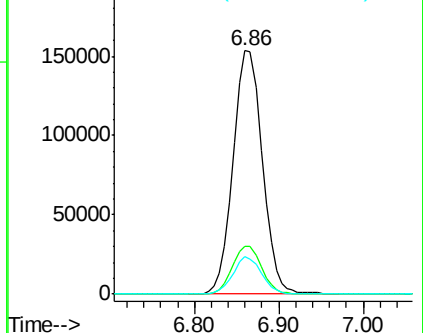
88 15.2 0.0 30.0

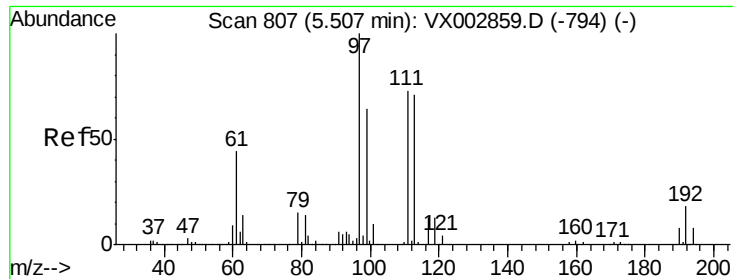


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

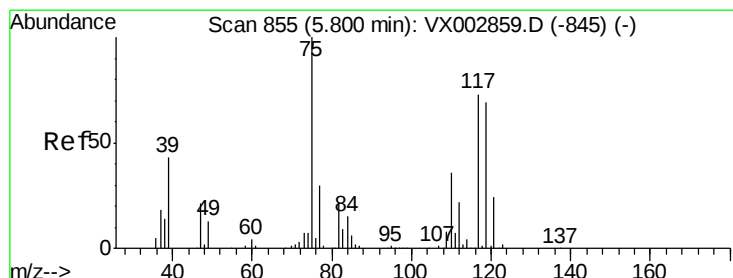
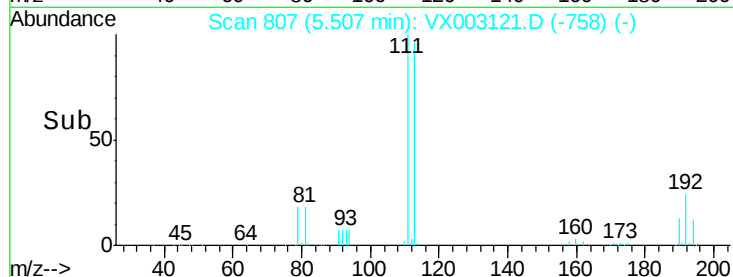
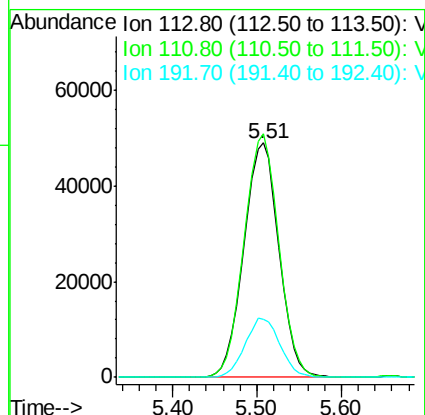
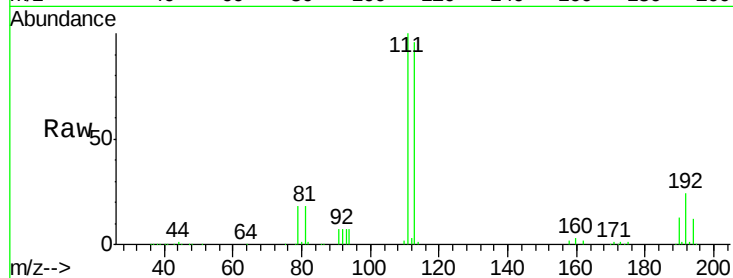




#35
 Dibromofluoromethane
 Concen: 48.29 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003121.D
 Acq: 02 Jul 2018 12:21

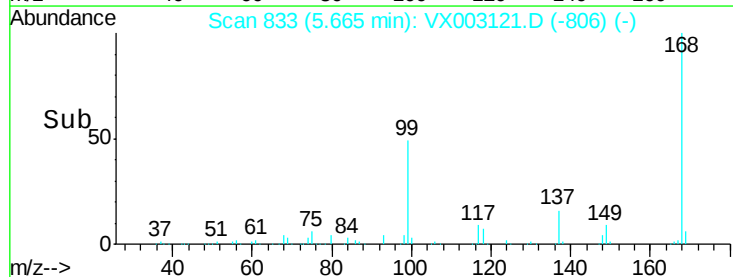
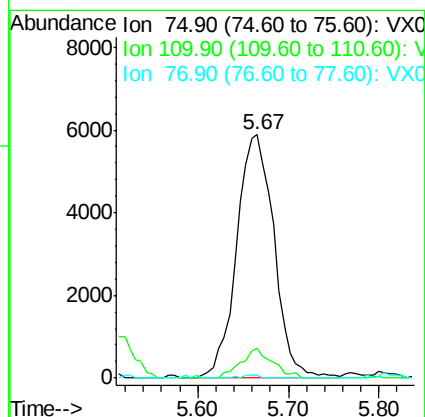
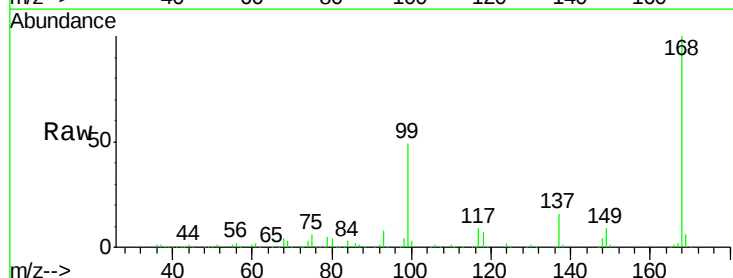
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0702WBL01

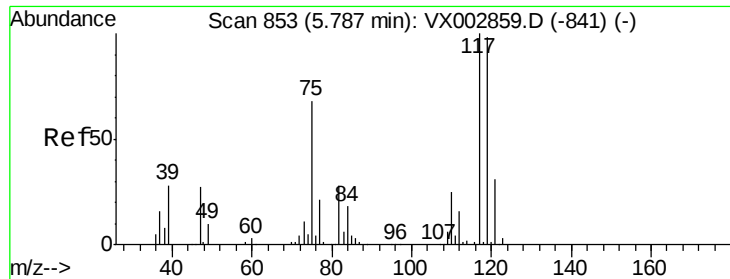
Tot Ion:113 Resp: 138355
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.0
 192 25.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.27 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003121.D
 Acq: 02 Jul 2018 12:21

Tgt Ion: 75 Resp: 16942
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.6 24.3 36.5#

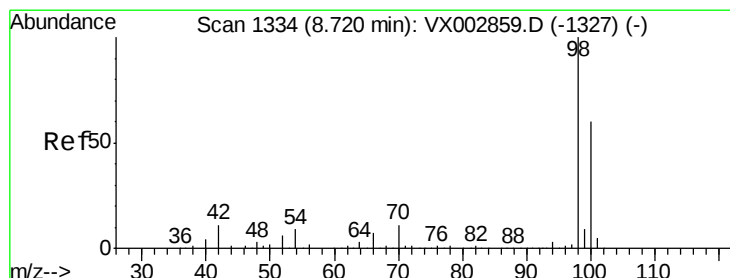
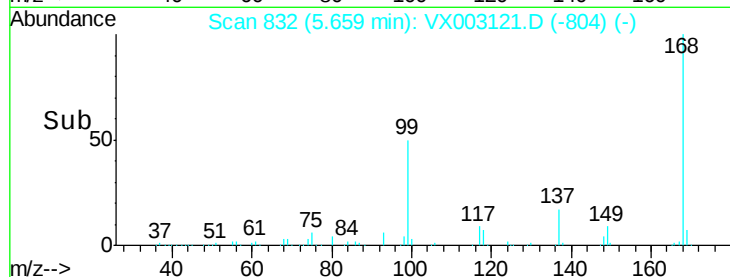
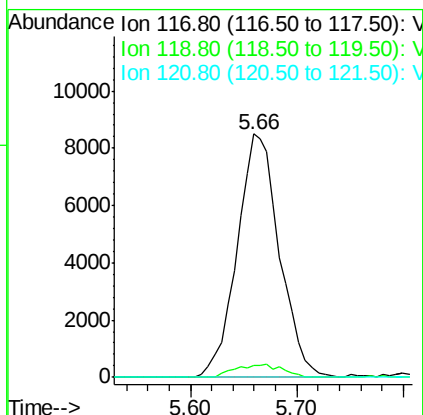
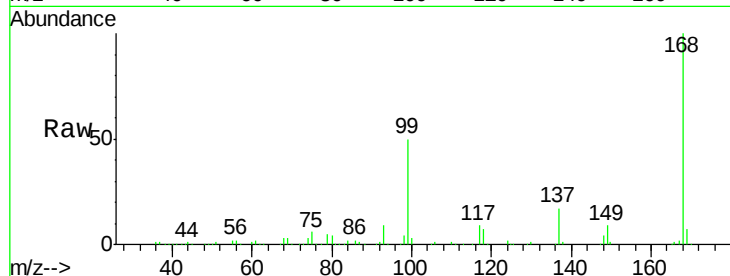




#38
Carbon Tetrachloride
Concen: 5.42 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.13 min
Lab File: VX003121.D
Acq: 02 Jul 2018 12:21

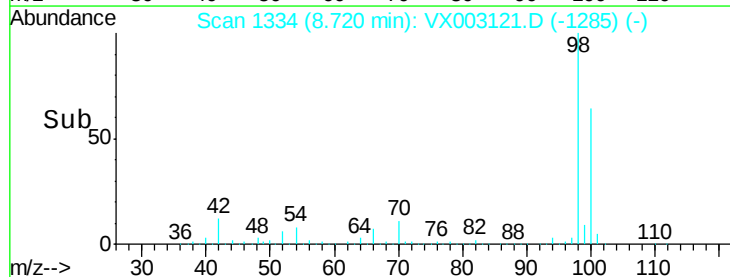
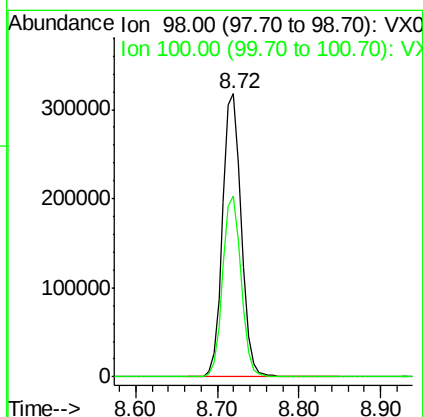
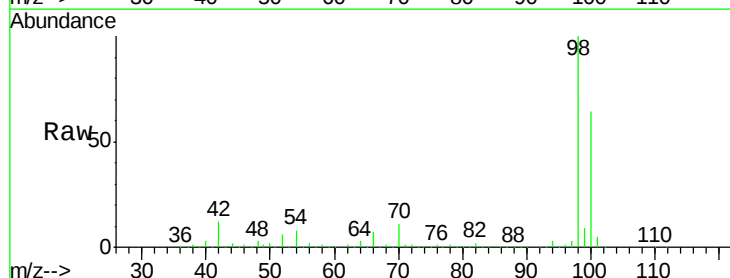
Instrument :
MSVOA_X
ClientSampleId :
VX0702WBL01

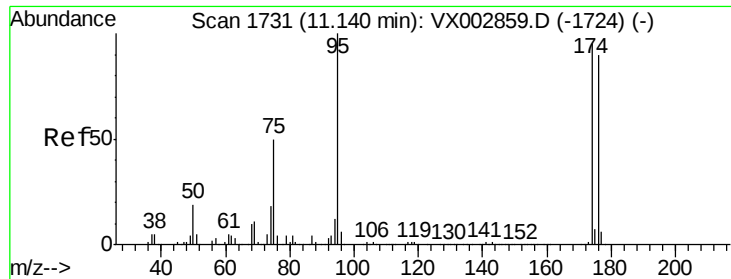
Tot Ion:117 Resp: 23597
Ion Ratio Lower Upper
117 100
119 5.0 77.4 116.0#
121 0.0 24.4 36.6#



#50
Toluene-d8
Concen: 48.22 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003121.D
Acq: 02 Jul 2018 12:21

Tgt Ion: 98 Resp: 504515
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 43.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

VX0702WBL01

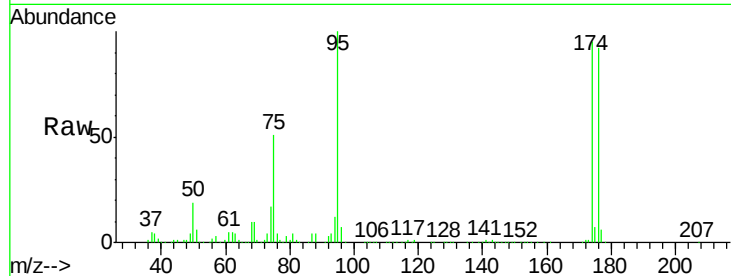
Tot Ion: 95 Resp: 174068

Ion Ratio Lower Upper

95 100

174 97.9 0.0 187.4

176 95.1 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

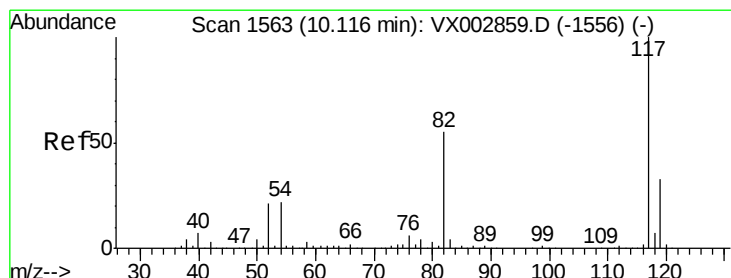
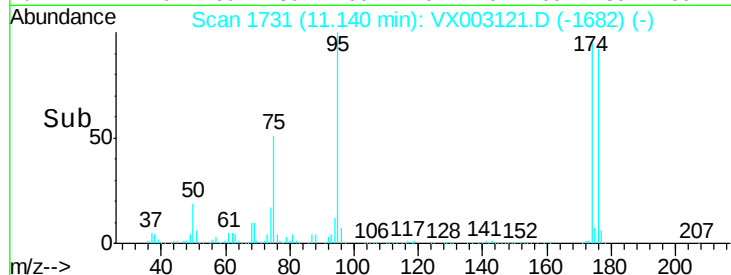
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

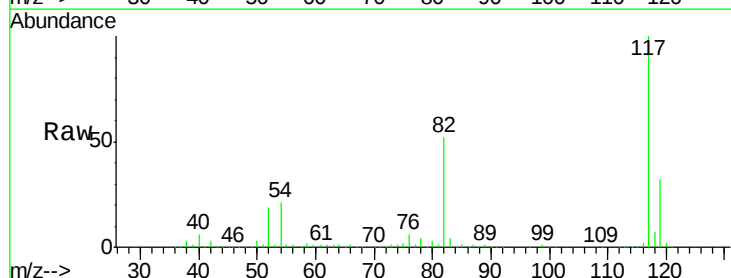
Tgt Ion: 117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 51.7 45.0 67.4

119 32.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

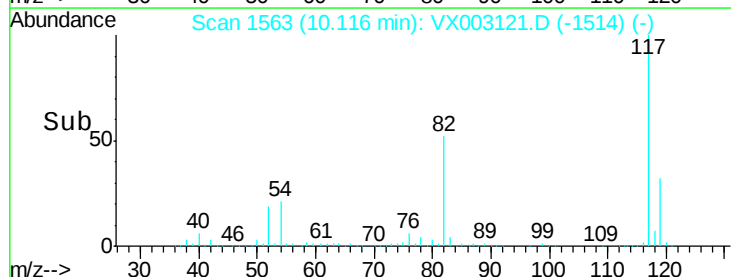
300000

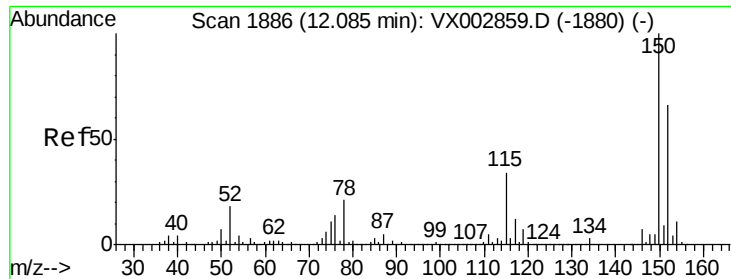
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

VX0702WBL01

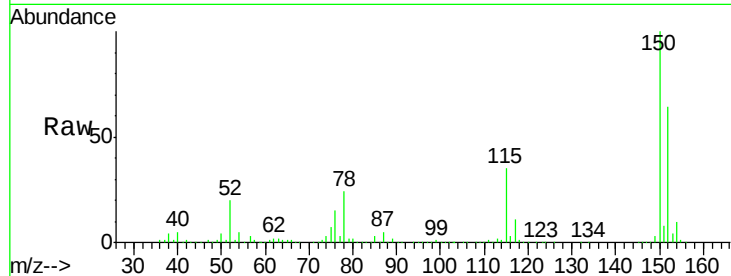
Tot Ion:152 Resp: 185447

Ion Ratio Lower Upper

152 100

115 53.4 40.1 120.2

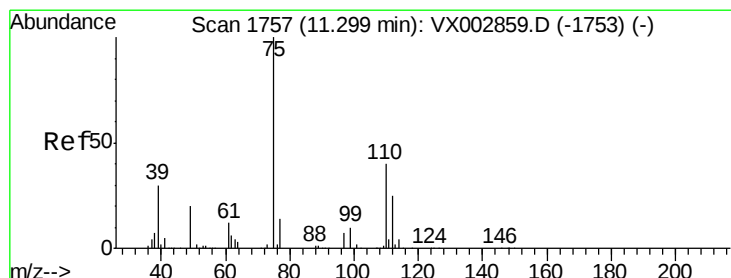
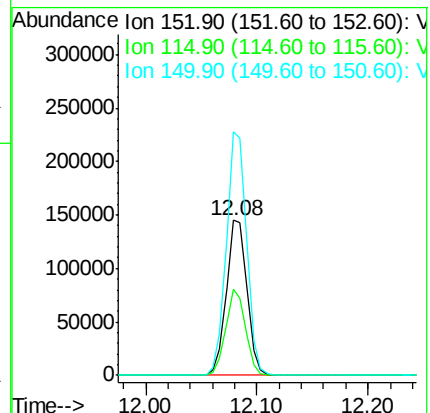
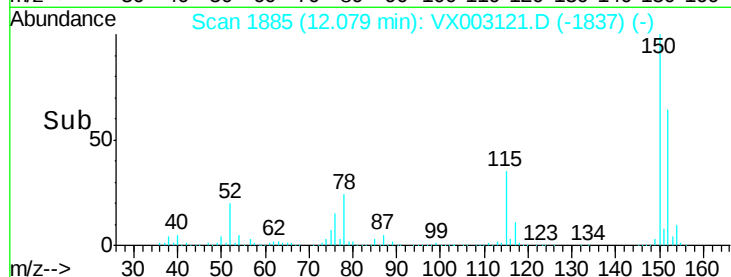
150 155.1 0.0 347.2



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: 26.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003121.D

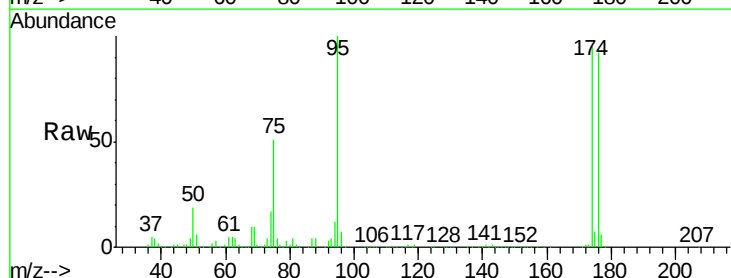
Acq: 02 Jul 2018 12:21

Tgt Ion: 75 Resp: 88735

Ion Ratio Lower Upper

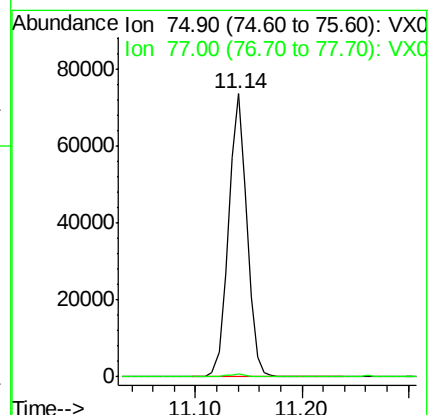
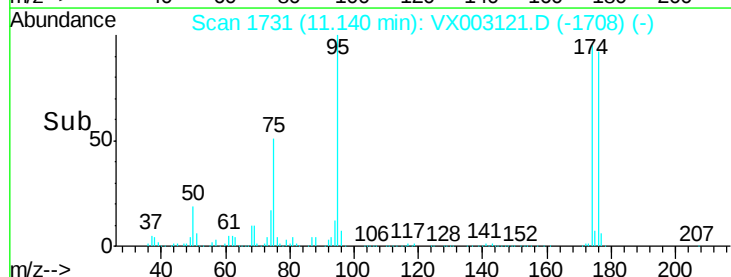
75 100

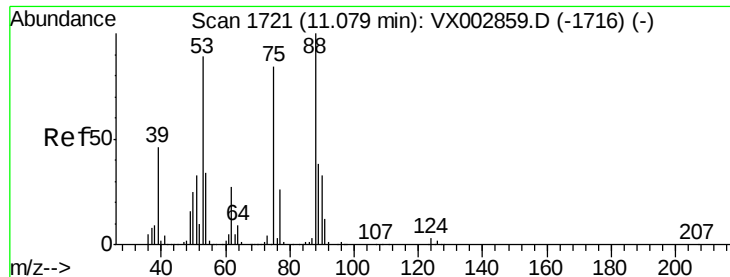
77 1.1 22.8 68.3#



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: 74.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

VX0702WBL01

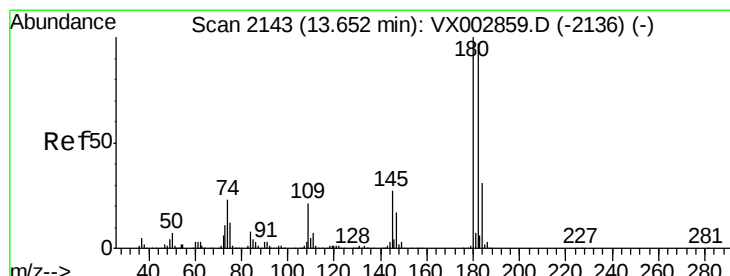
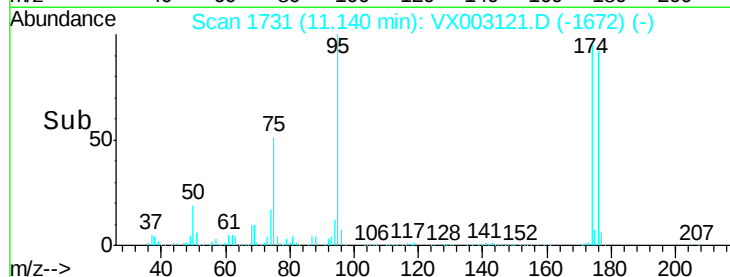
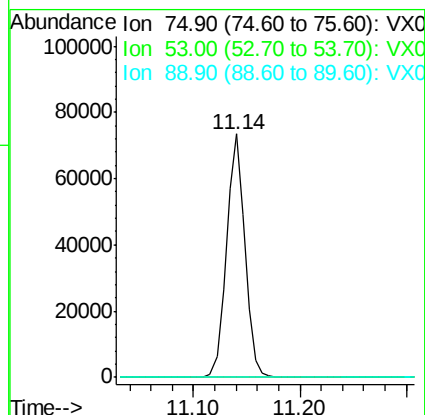
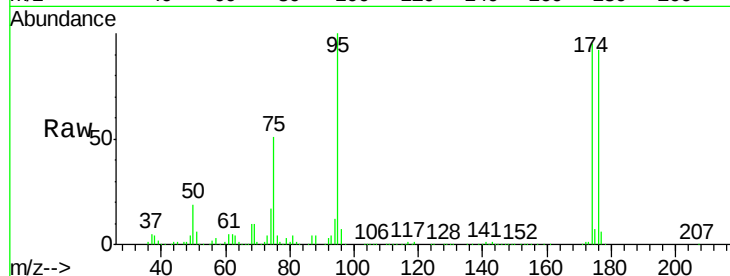
Tot Ion: 75 Resp: 88735

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



#93

1,2,4-Trichlorobenzene

Concen: 0.23 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

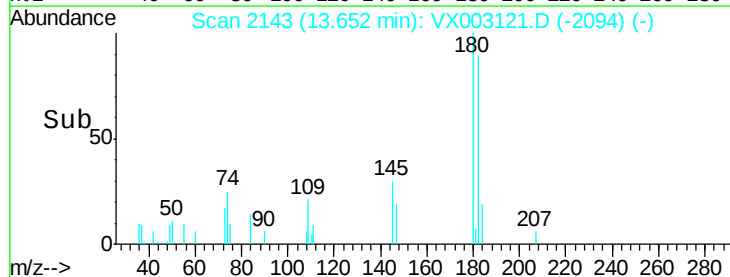
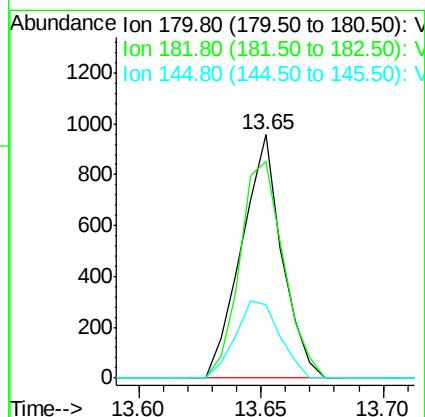
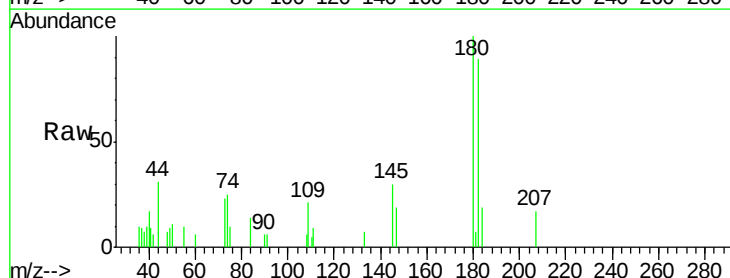
Tgt Ion:180 Resp: 1104

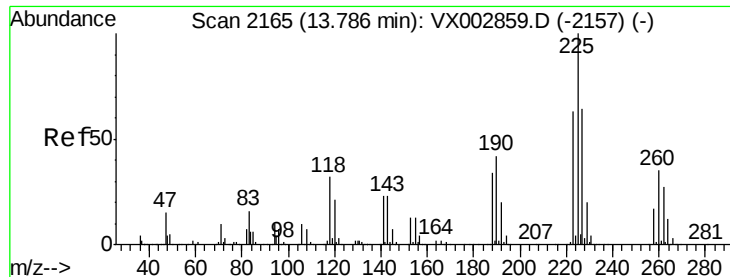
Ion Ratio Lower Upper

180 100

182 96.2 47.7 143.1

145 34.9 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

Instrument :

MSVOA_X

ClientSampleId :

VX0702WBL01

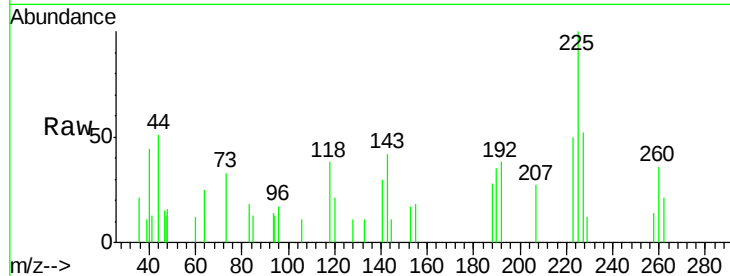
Tot Ion:225 Resp: 561

Ion Ratio Lower Upper

225 100

223 69.0 31.6 95.0

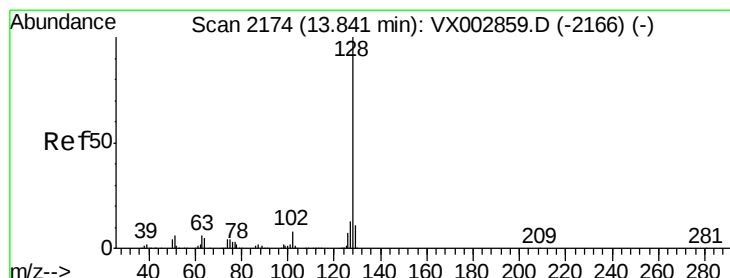
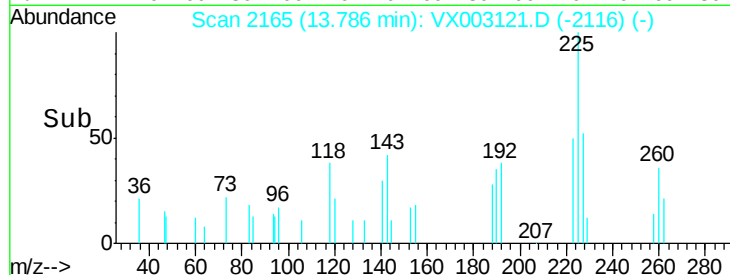
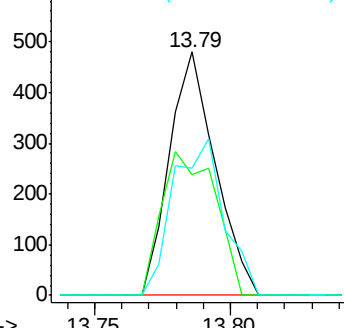
227 71.1 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX003121.D

Acq: 02 Jul 2018 12:21

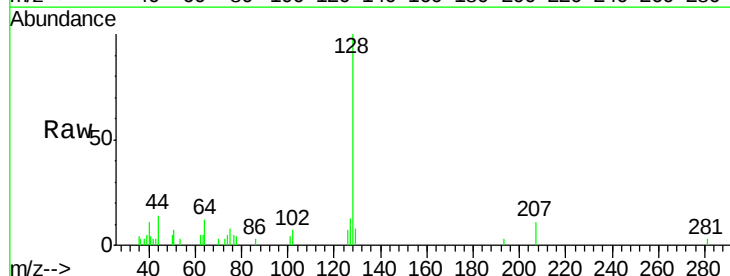
Tgt Ion:128 Resp: 2666

Ion Ratio Lower Upper

128 100

127 15.6 10.4 15.6#

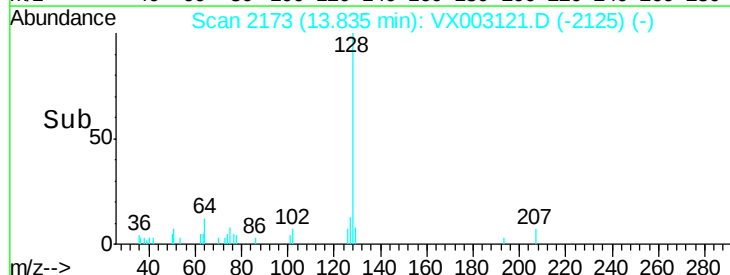
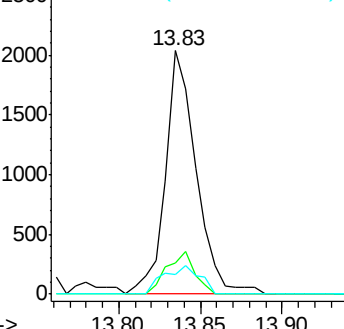
129 13.6 8.6 13.0#

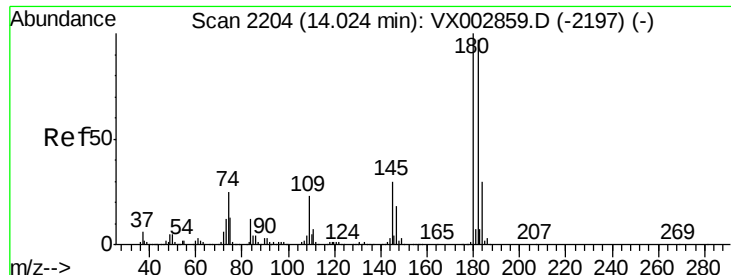


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

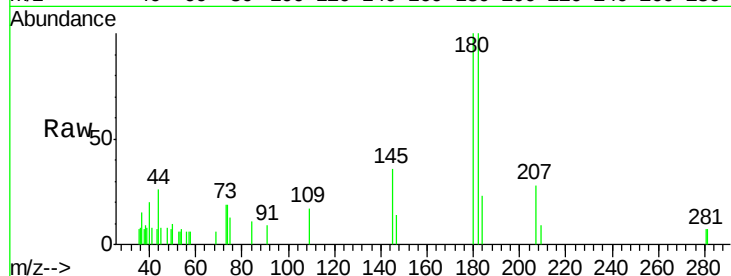




#96
 1,2,3-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX003121.D
 Acq: 02 Jul 2018 12:21

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0702WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	48.0	144.0
145	32.4	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

