

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003023.D
 Acq On : 29 Jun 2018 12:45
 Operator : JC/MD
 Sample : VX0629MBL01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 14:40:19 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	258961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	360708	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	327842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	168635	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	
35) Dibromofluoromethane	5.51	113	136670	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
50) Toluene-d8	8.72	98	501024	48.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.06%	
62) 4-Bromofluorobenzene	11.14	95	175169	43.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.08%	

Target Compounds

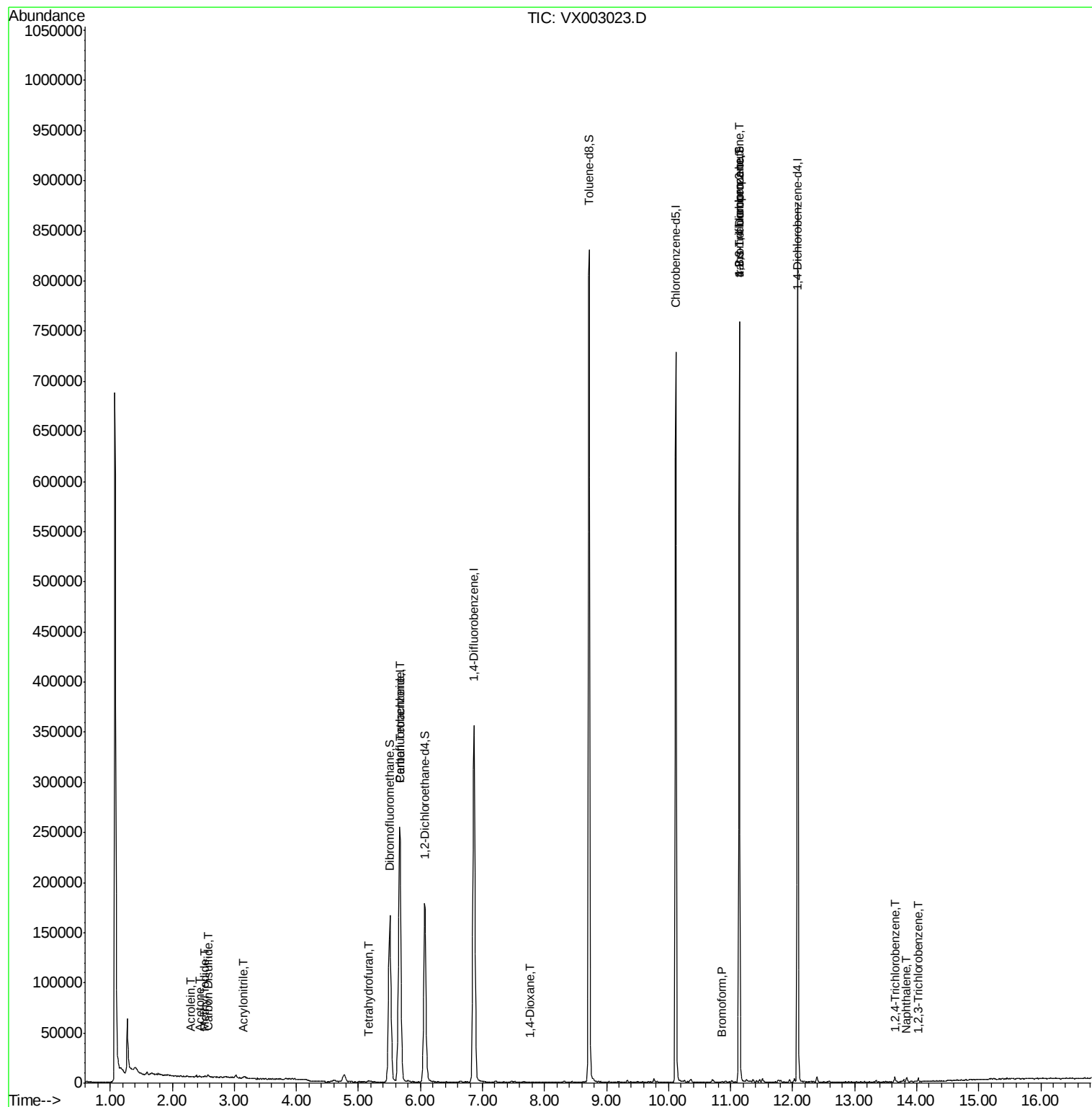
						Qvalue
2) Dichlorodifluoromethane	1.19	85	146	Below Cal	#	43
3) Chloromethane	1.32	50	769	Below Cal		93
5) Bromomethane	1.66	94	1288	Below Cal		95
6) Chloroethane	1.71	64	557	Below Cal	#	79
10) Methyl Iodide	2.52	142	1401	6.65	ug/l #	86
13) Acrolein	2.30	56	534	5.56	ug/l #	47
15) Acrylonitrile	3.14	53	794	0.52	ug/l #	88
16) Acetone	2.44	43	1134	0.77	ug/l #	74
17) Carbon Disulfide	2.57	76	3269	0.48	ug/l #	69
29) Tetrahydrofuran	5.17	42	350	0.25	ug/l #	56
38) Carbon Tetrachloride	5.66	117	23040	5.31	ug/l #	16
49) 1,4-Dioxane	7.76	88	27	0.38	ug/l #	1
71) Bromoform	10.86	173	50	3.92	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	91483	27.24	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91483	77.07	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.65	180	1273	0.27	ug/l	92
95) Naphthalene	13.84	128	2610	0.21	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	1027	0.22	ug/l	92

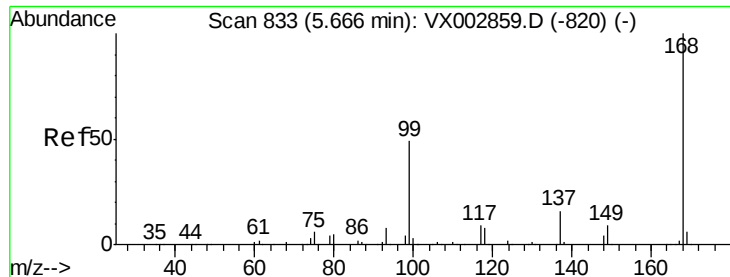
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

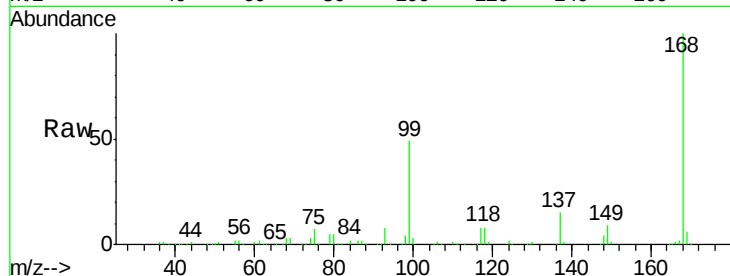
ClientSampled :

Tot Ion:168 Resp: 258961

Ion Ratio Lower Upper

168 100

99 49.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

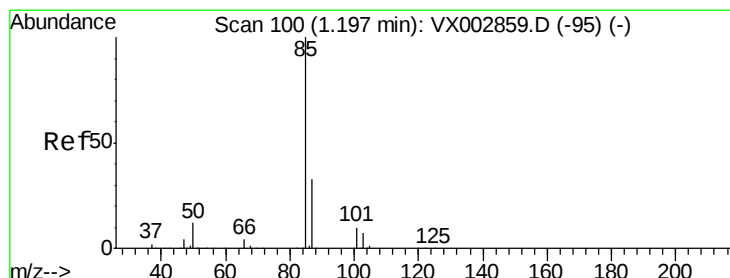
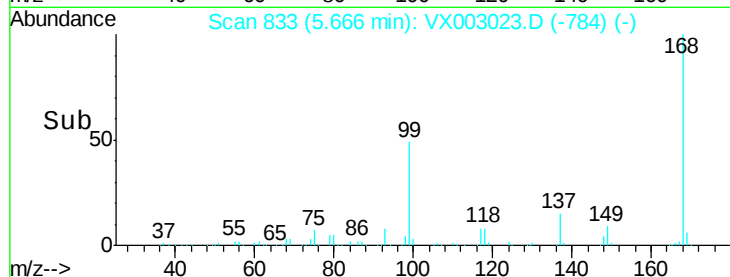
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003023.D

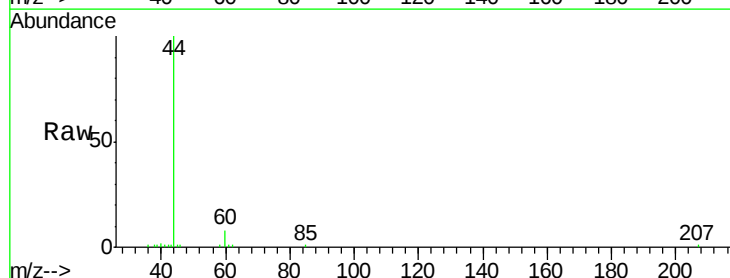
Acq: 29 Jun 2018 12:45

Tgt Ion: 85 Resp: 146

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

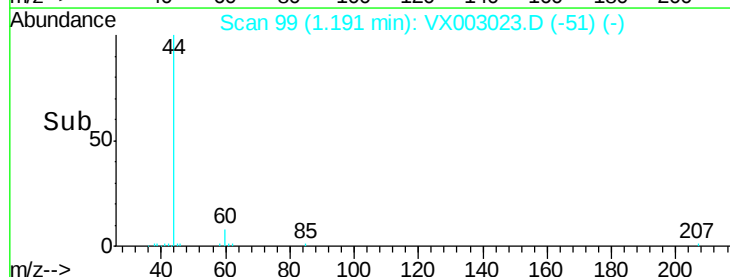
1.19

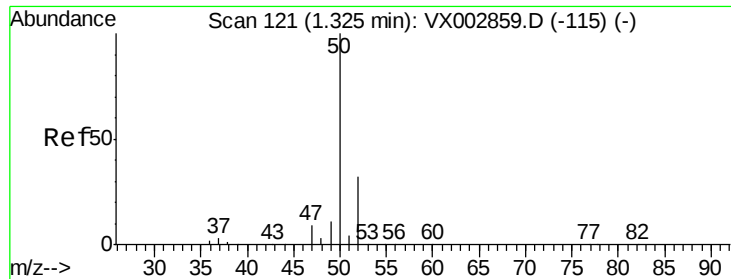
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

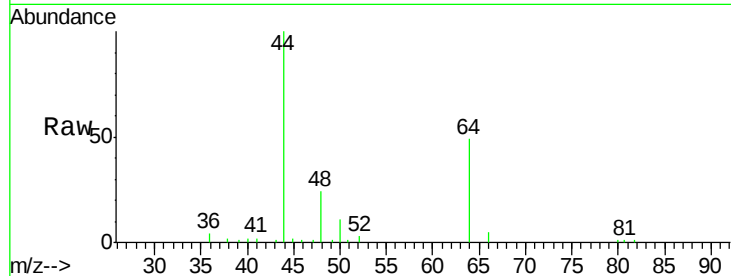
ClientSampleId :

Tot Ion: 50 Resp: 769

Ion Ratio Lower Upper

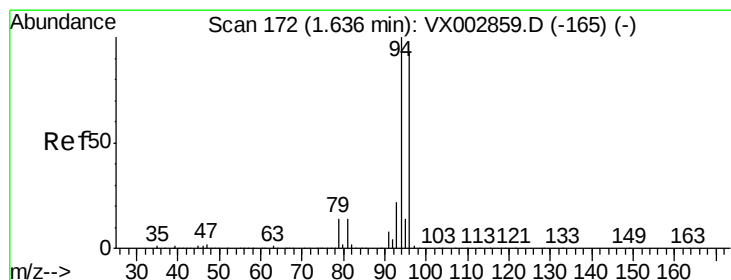
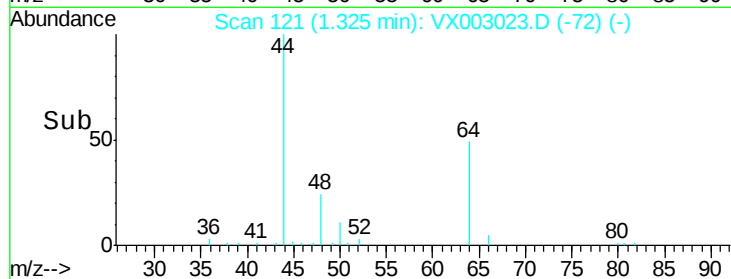
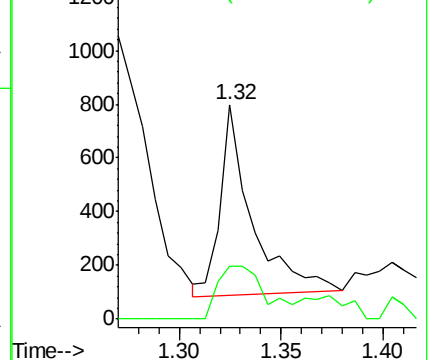
50 100

52 28.2 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: VX003023.D

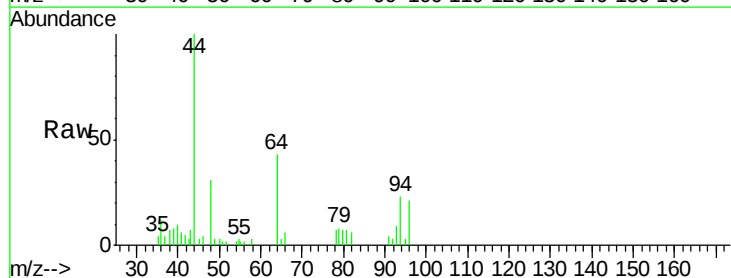
Acq: 29 Jun 2018 12:45

Tgt Ion: 94 Resp: 1288

Ion Ratio Lower Upper

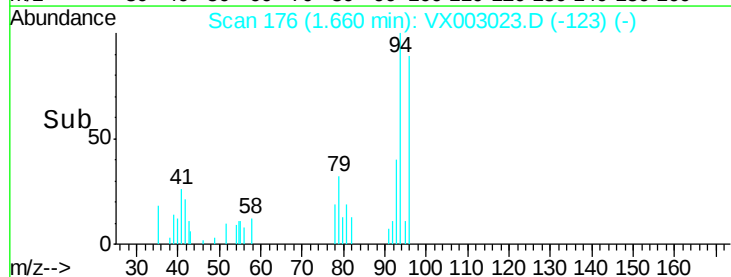
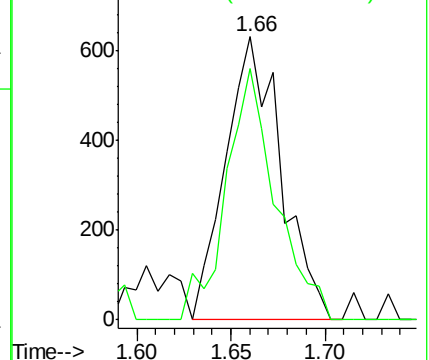
94 100

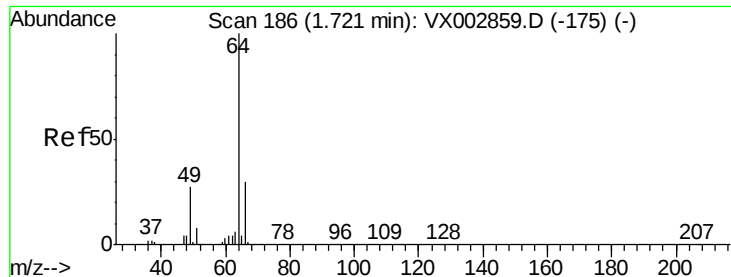
96 88.9 74.9 112.3



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: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

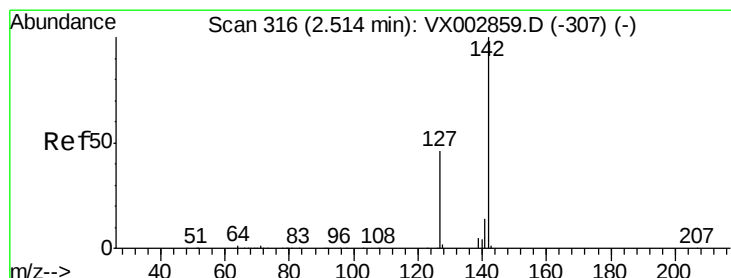
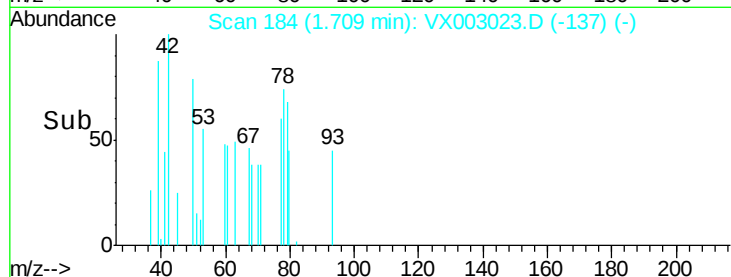
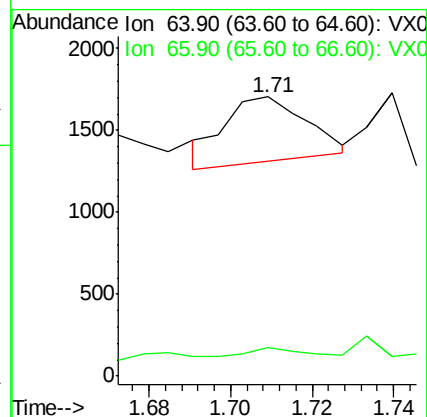
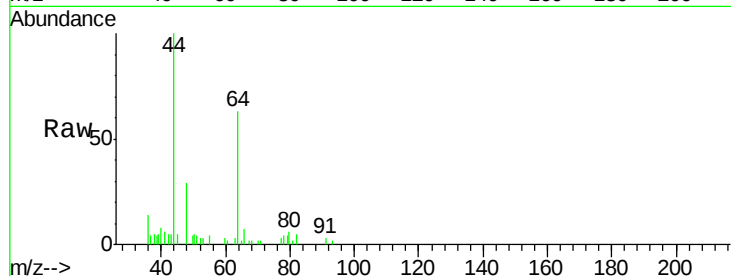
ClientSampleId :

Tot Ion: 64 Resp: 557

Ion Ratio Lower Upper

64 100

66 20.2 25.5 38.3#



#10

Methyl Iodide

Concen: 6.65 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

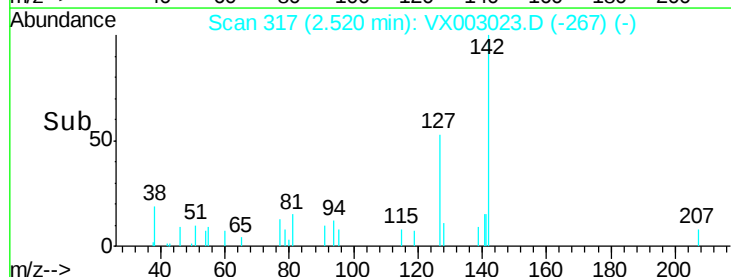
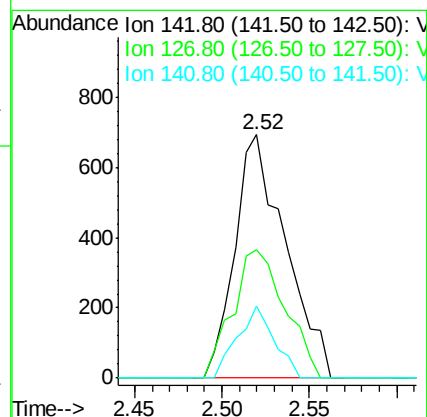
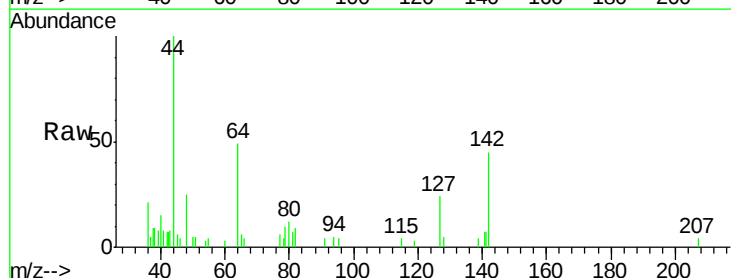
Tgt Ion: 142 Resp: 1401

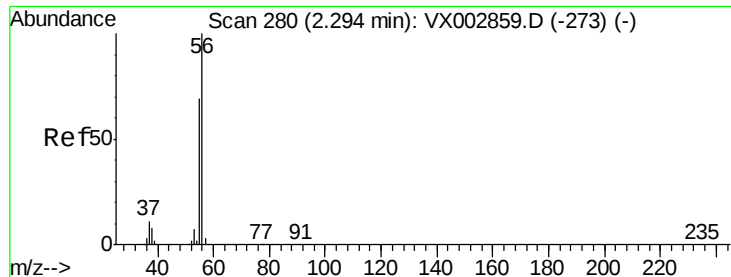
Ion Ratio Lower Upper

142 100

127 54.2 36.6 55.0

141 21.2 11.3 16.9#





#13

Acrolein

Concen: 5.56 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

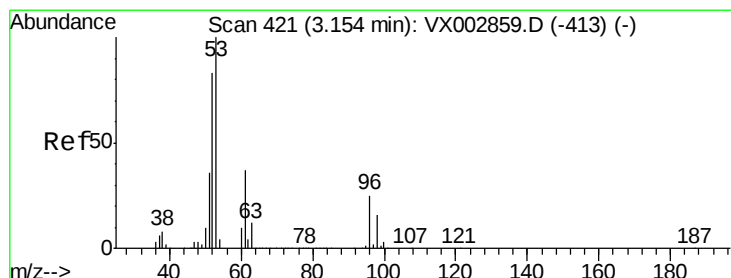
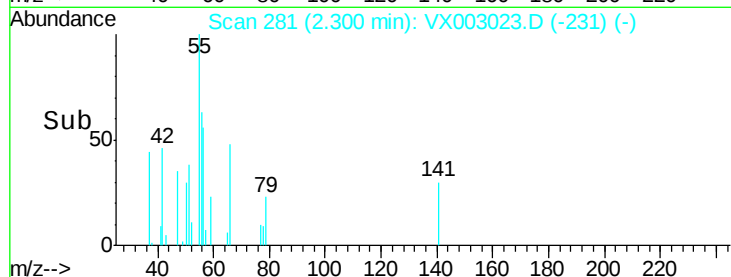
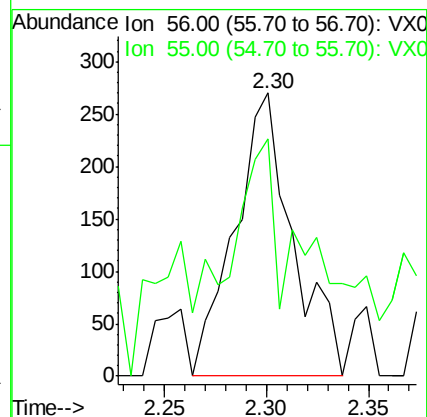
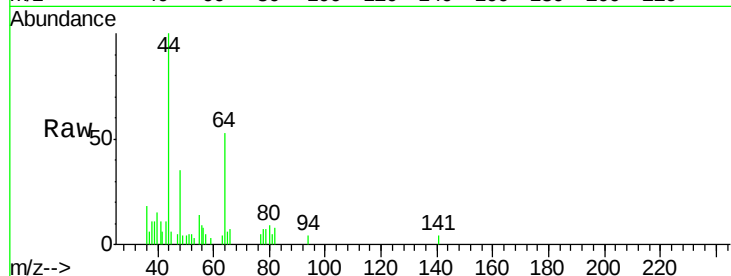
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 534

Ion Ratio Lower Upper

56 100

55 27.3 57.0 85.4#



#15

Acrylonitrile

Concen: 0.52 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

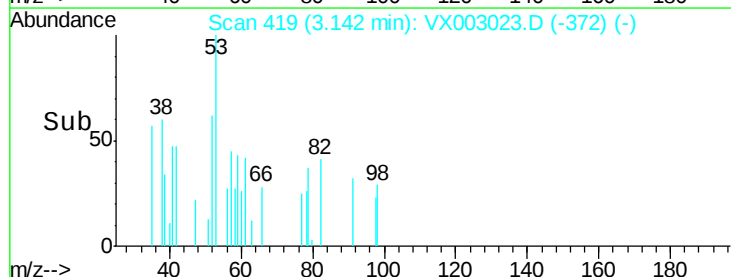
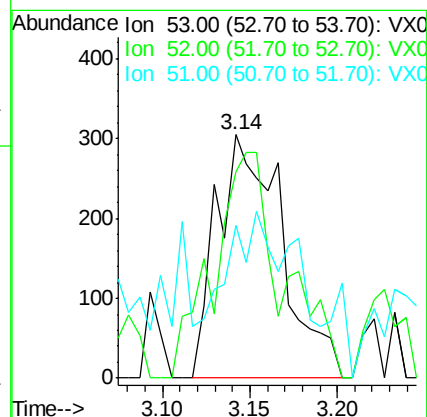
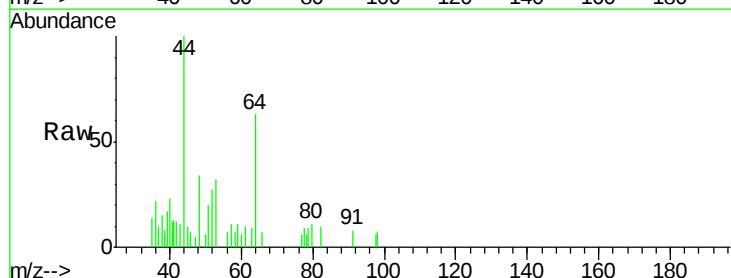
Tgt Ion: 53 Resp: 794

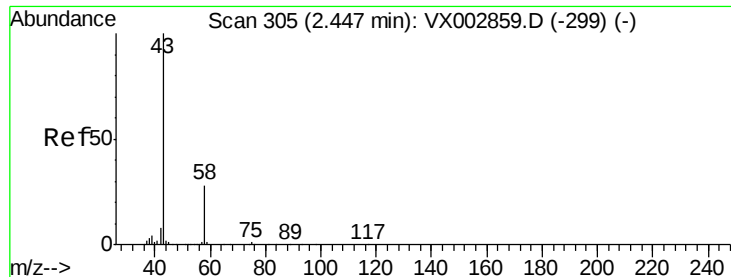
Ion Ratio Lower Upper

53 100

52 75.7 66.7 100.1

51 25.6 29.9 44.9#





#16

Acetone

Concen: 0.77 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

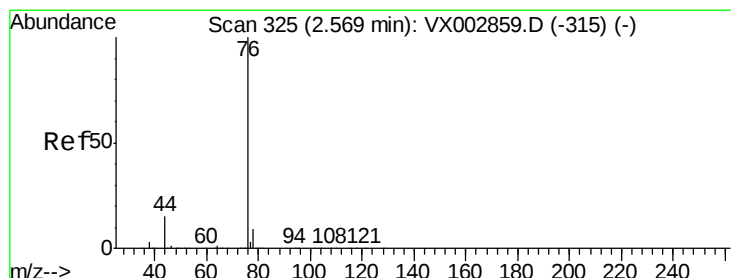
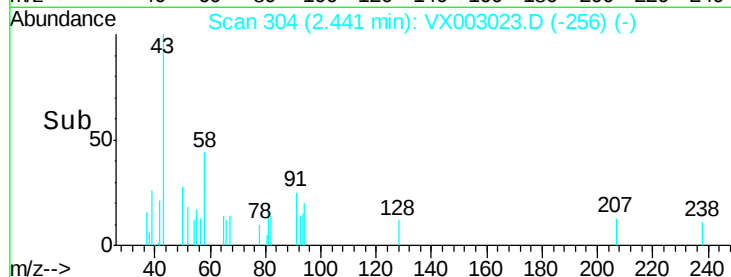
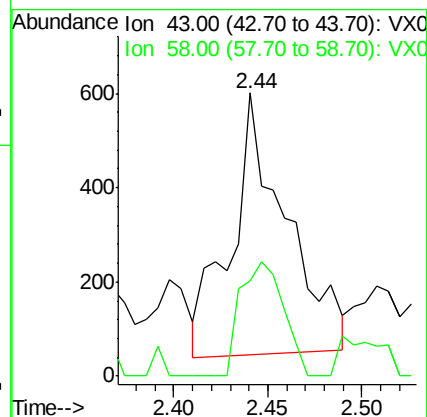
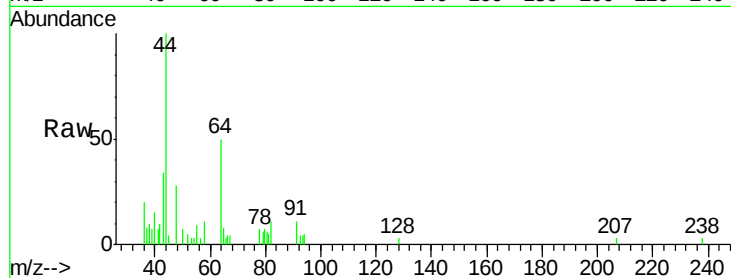
ClientSampleId :

Tot Ion: 43 Resp: 1134

Ion Ratio Lower Upper

43 100

58 41.3 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.48 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003023.D

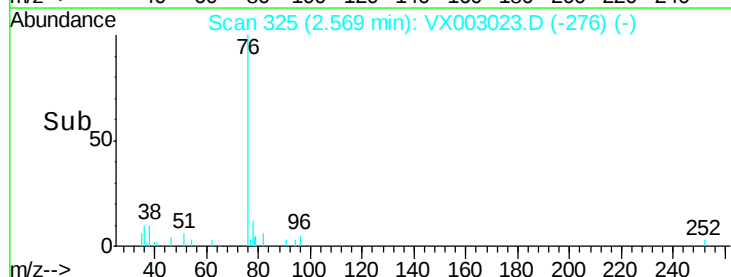
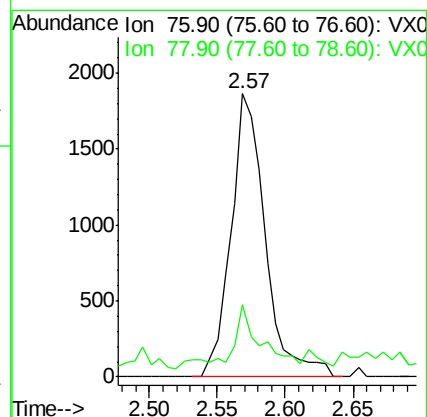
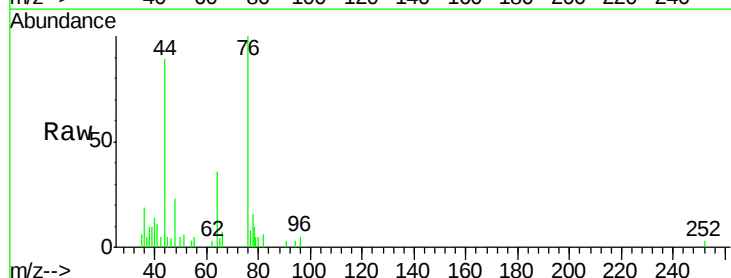
Acq: 29 Jun 2018 12:45

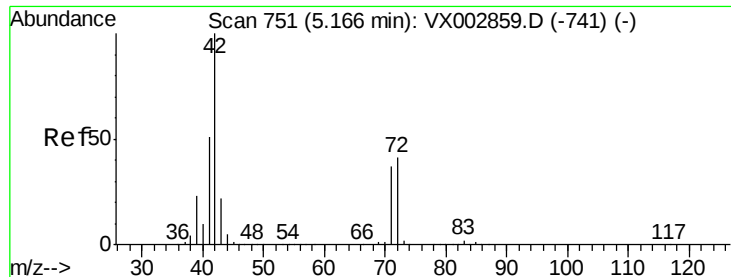
Tgt Ion: 76 Resp: 3269

Ion Ratio Lower Upper

76 100

78 19.6 6.9 10.3#

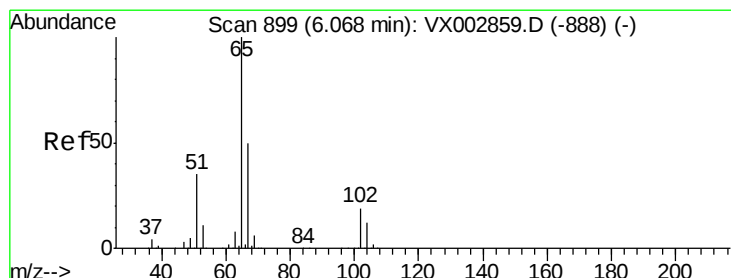
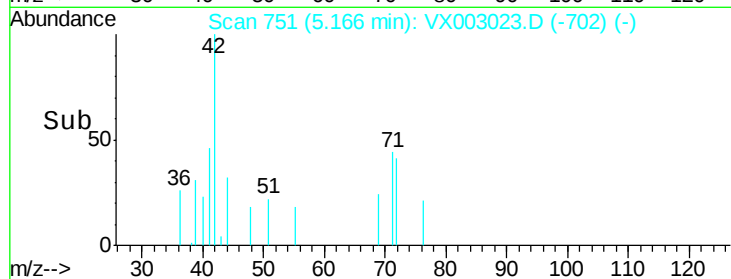
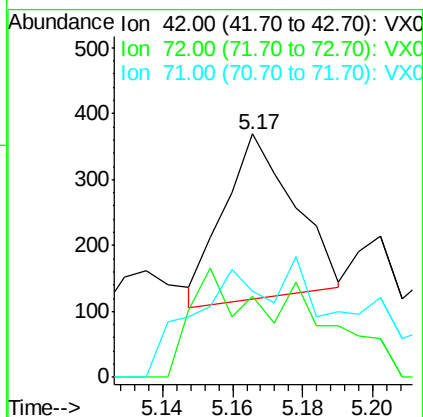
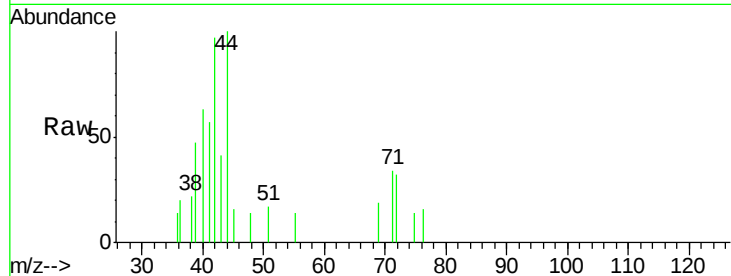




#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003023.D
Acq: 29 Jun 2018 12:45

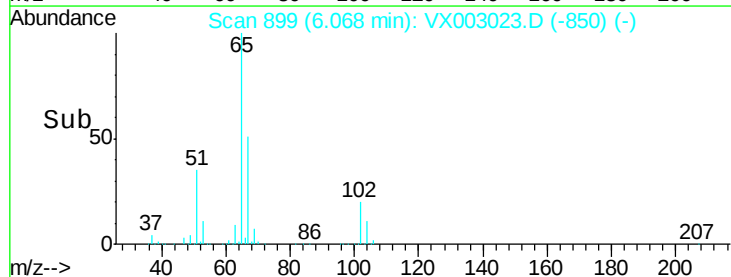
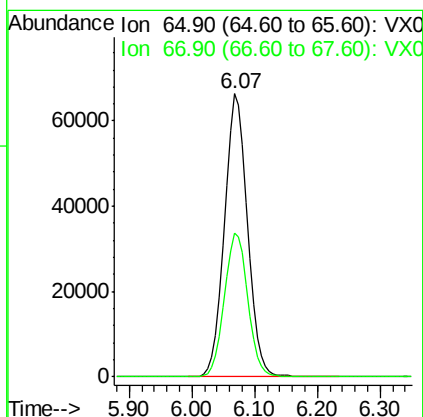
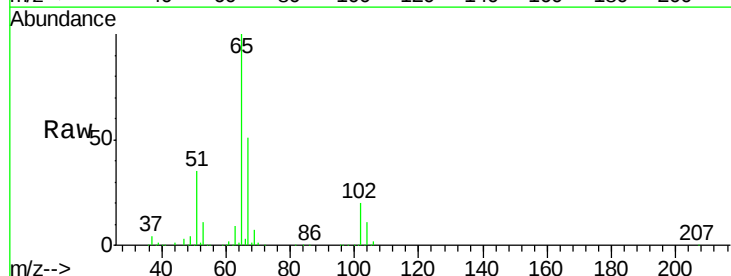
Instrument :
MSVOA_X
ClientSampled :

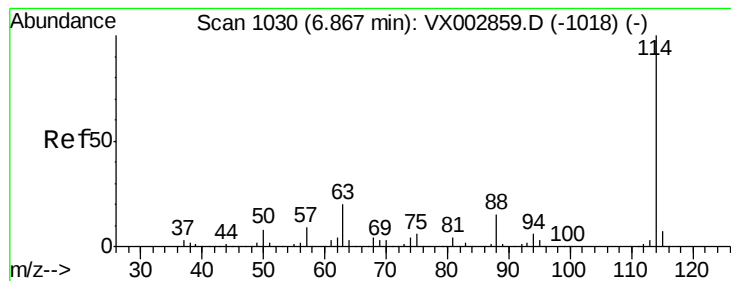
Tot Ion: 42 Resp: 350
Ion Ratio Lower Upper
42 100
72 58.9 32.0 48.0#
71 72.0 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 47.11 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX003023.D
Acq: 29 Jun 2018 12:45

Tgt Ion: 65 Resp: 168635
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

ClientSampleId :

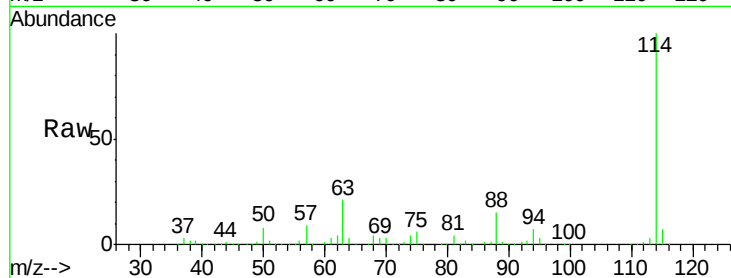
Tot Ion:114 Resp: 360708

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

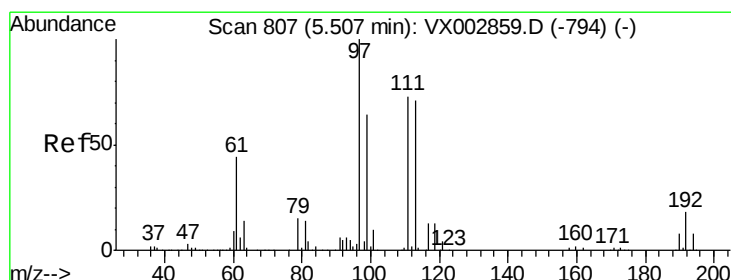
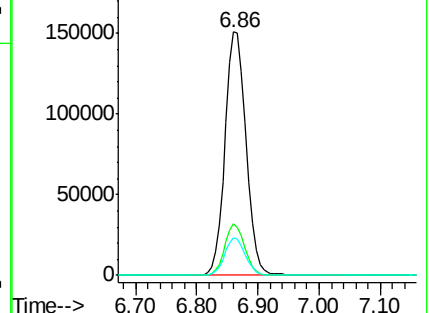
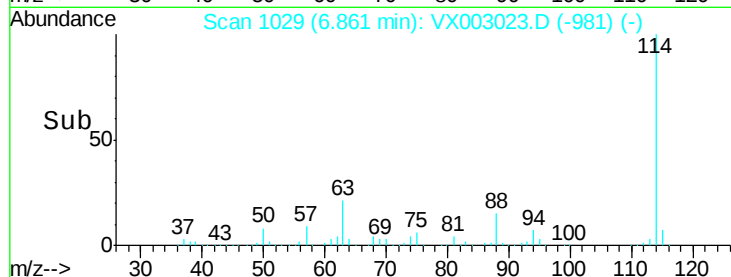
88 15.3 0.0 30.0



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: 47.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

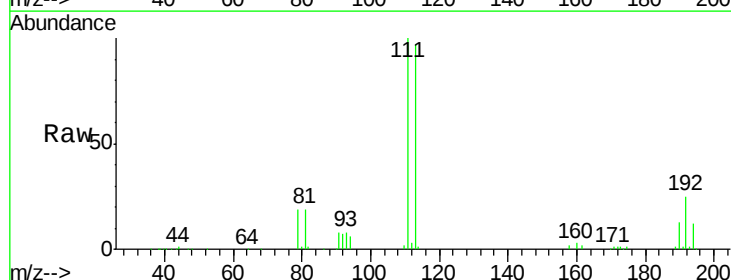
Tgt Ion:113 Resp: 136670

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

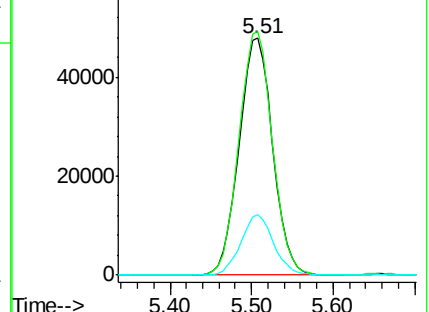
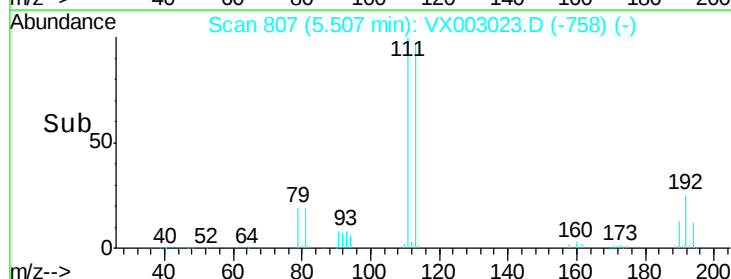
192 24.7 19.1 28.7

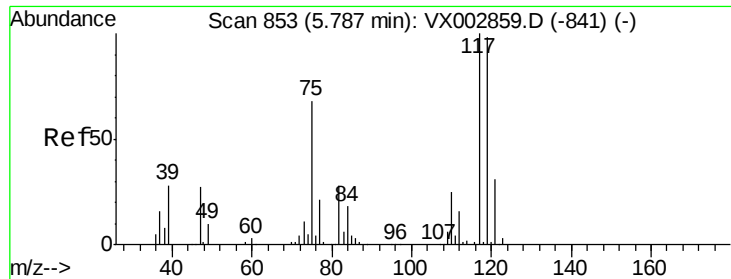


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.31 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

ClientSampled :

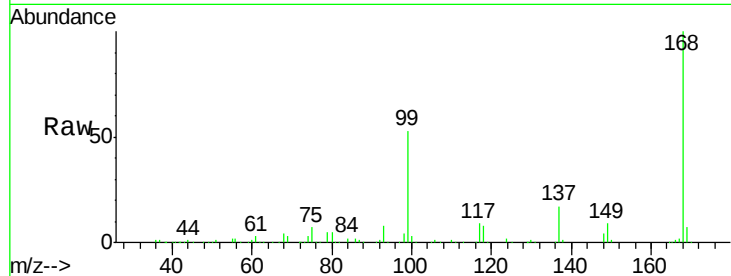
Tot Ion:117 Resp: 23040

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.0#

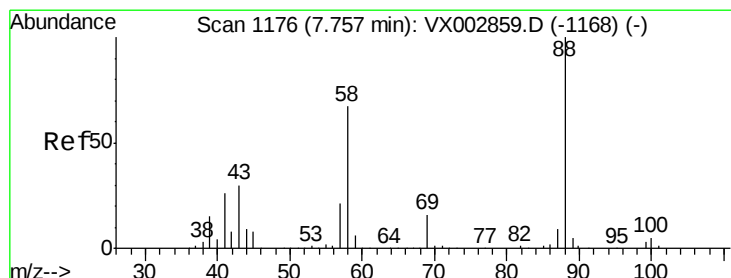
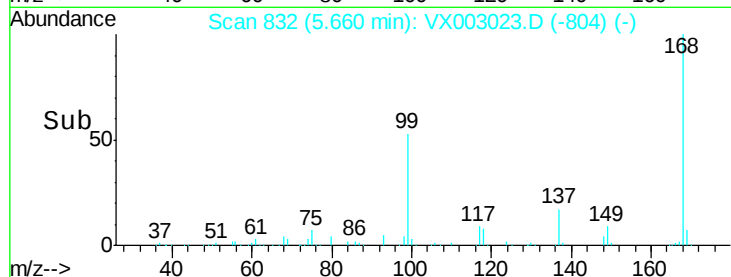
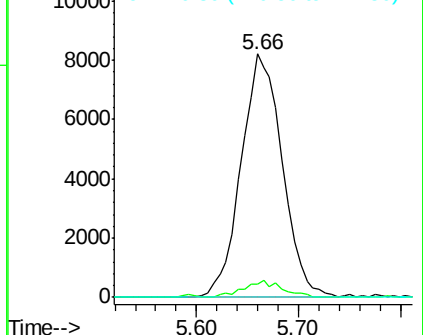
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.38 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

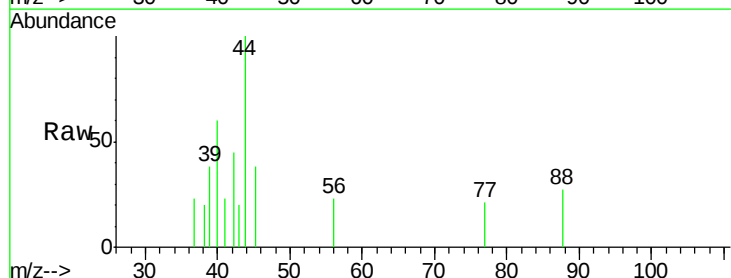
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 1000.0 29.8 44.6#

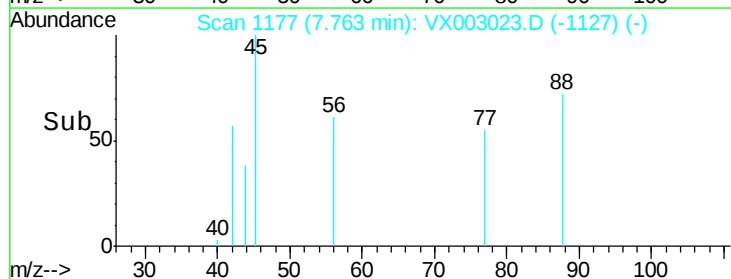
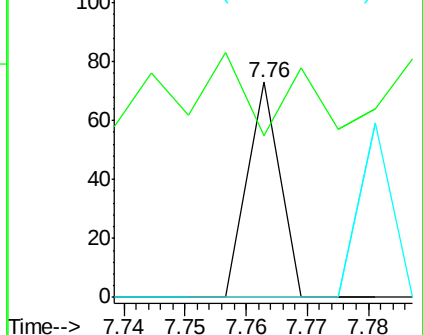
58 0.0 57.1 85.7#

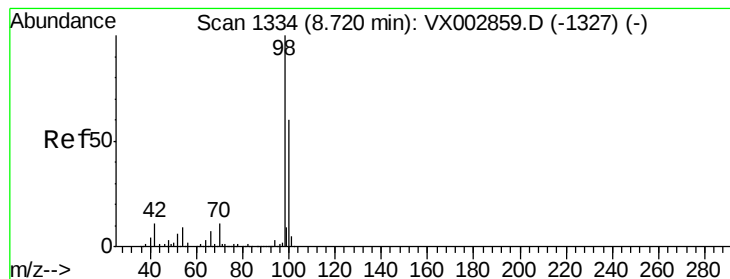


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.03 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

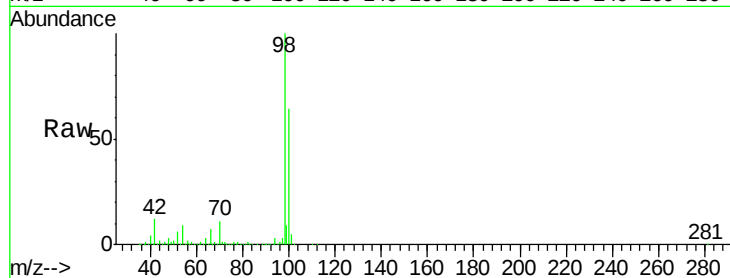
ClientSampleId :

Tot Ion: 98 Resp: 501024

Ion Ratio Lower Upper

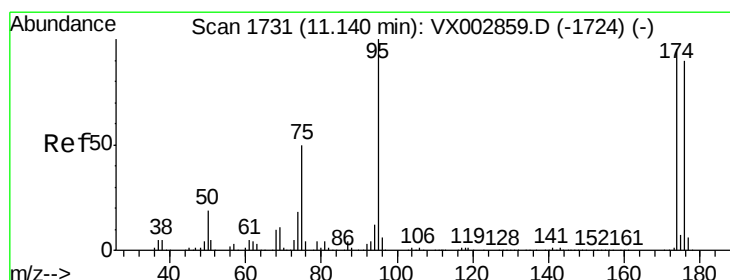
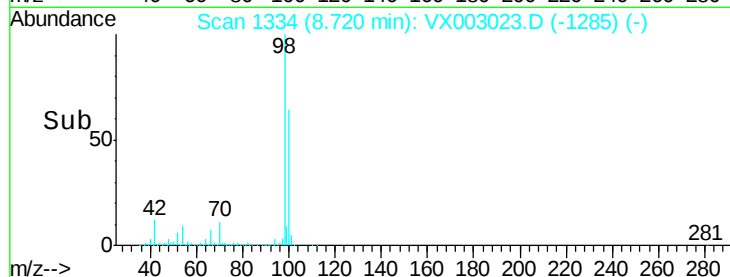
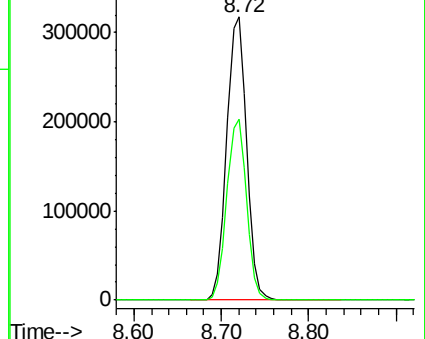
98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

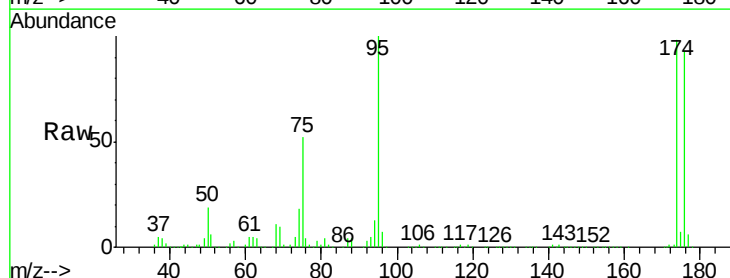
Tgt Ion: 95 Resp: 175169

Ion Ratio Lower Upper

95 100

174 97.0 0.0 187.4

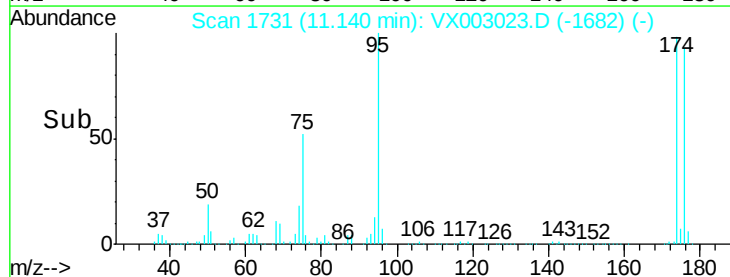
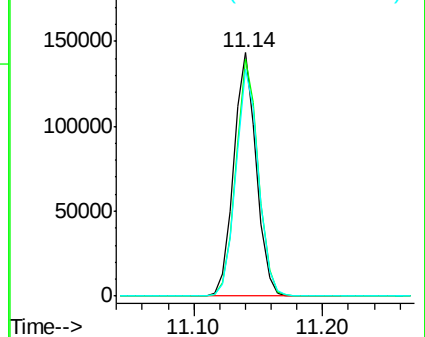
176 93.7 0.0 181.0

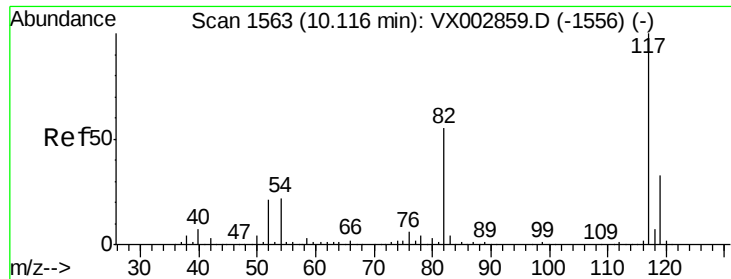


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

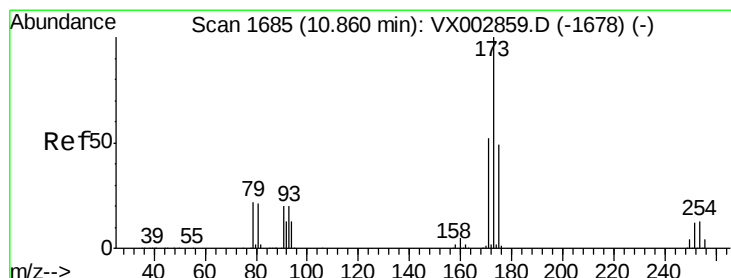
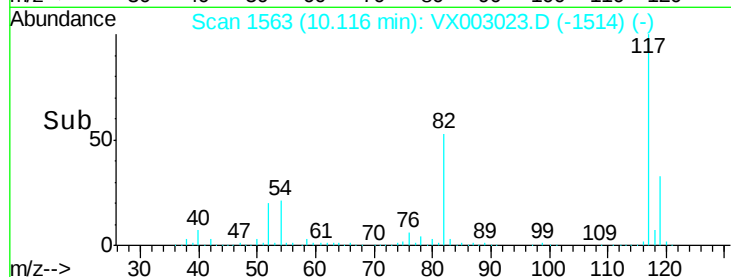
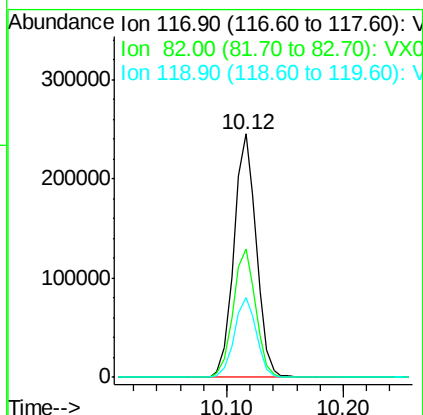
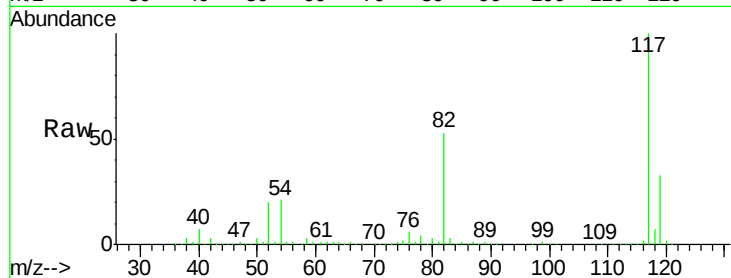




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003023.D
Acq: 29 Jun 2018 12:45

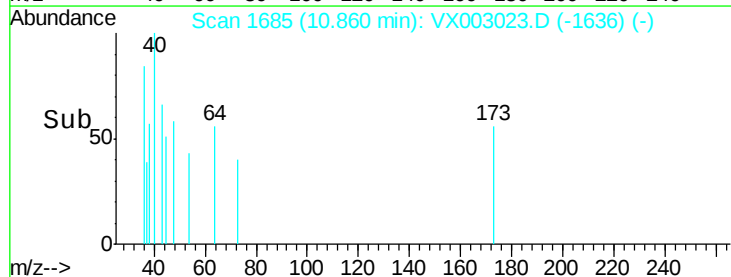
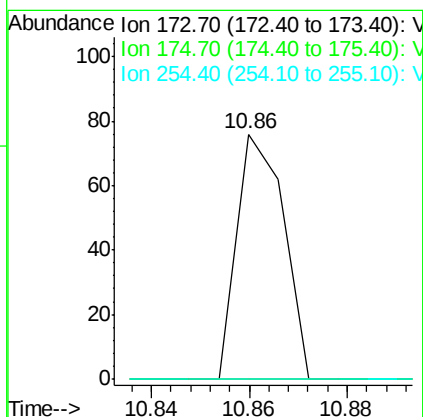
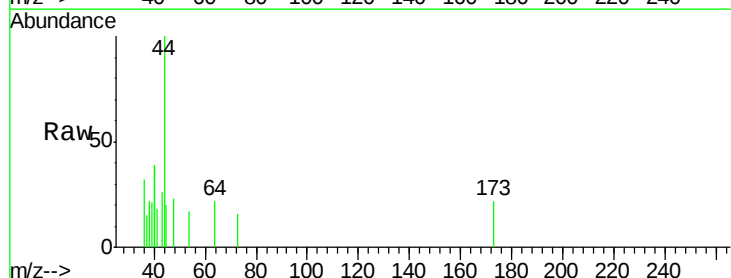
Instrument :
MSVOA_X
ClientSampleId :

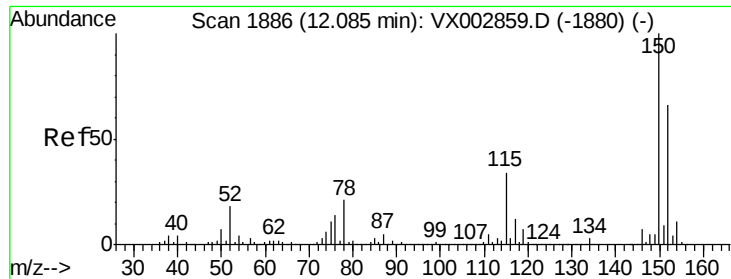
Tot Ion:117 Resp: 327842
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.7 25.8 38.6



#71
Bromoform
Concen: 3.92 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX003023.D
Acq: 29 Jun 2018 12:45

Tgt Ion:173 Resp: 50
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

ClientSampleId :

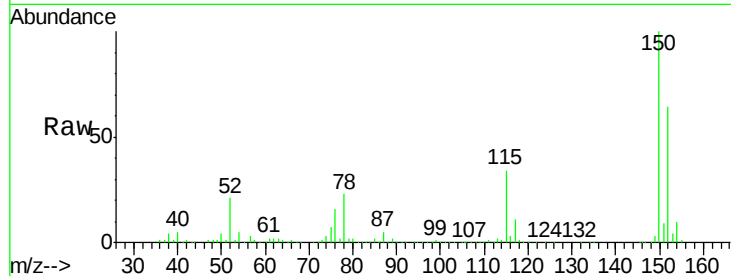
Tot Ion:152 Resp: 185431

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

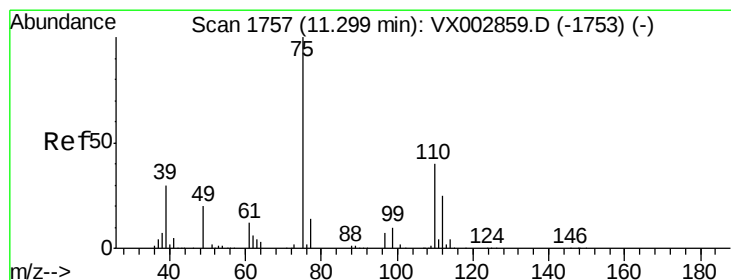
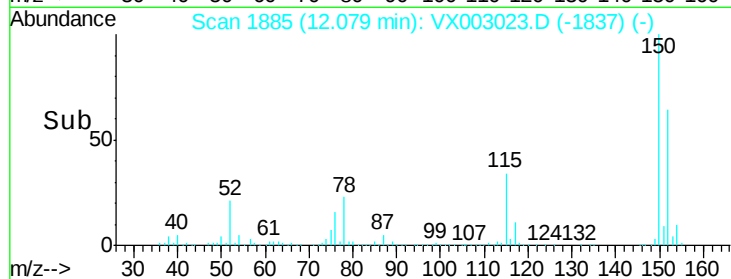
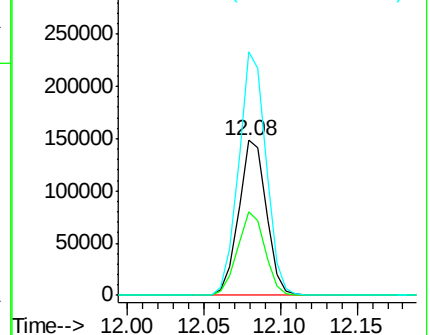
150 155.8 0.0 347.2



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: 27.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003023.D

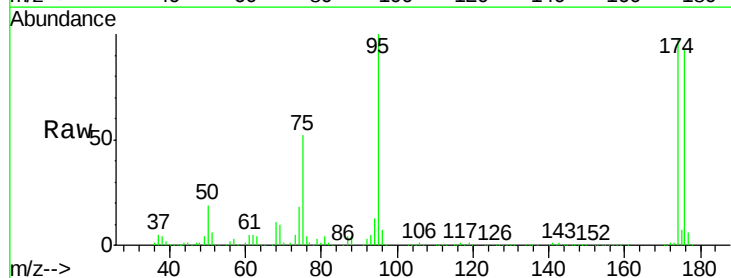
Acq: 29 Jun 2018 12:45

Tgt Ion: 75 Resp: 91483

Ion Ratio Lower Upper

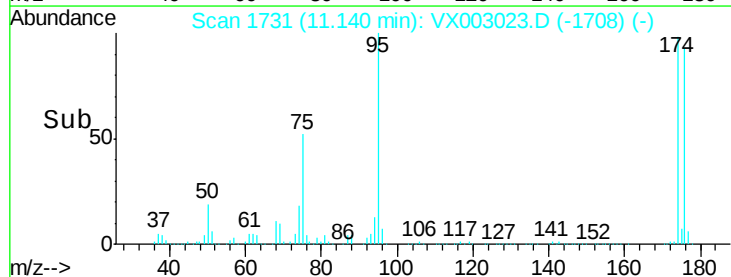
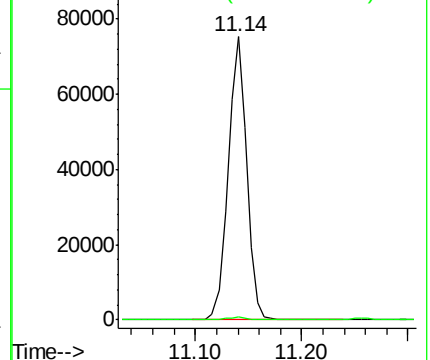
75 100

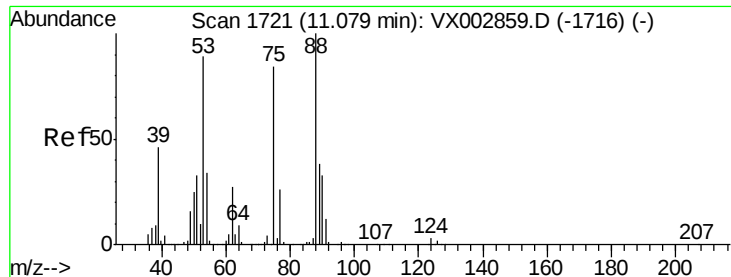
77 1.1 22.8 68.3#



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: 77.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

ClientSampled :

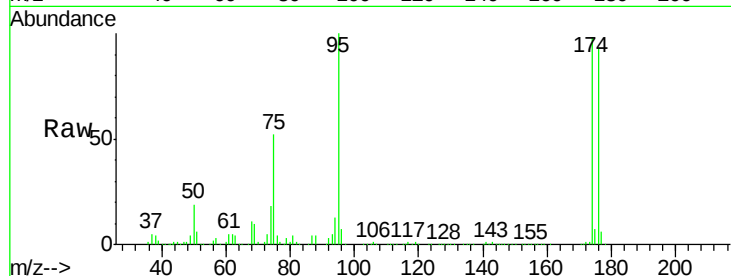
Tot Ion: 75 Resp: 91483

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

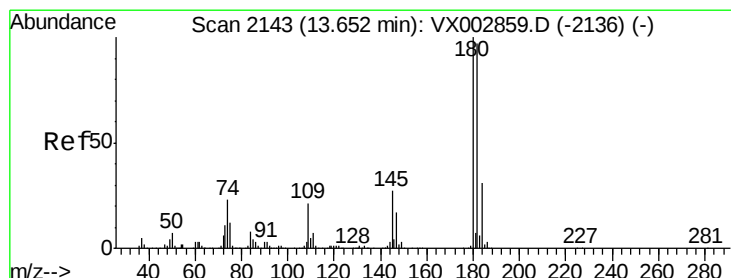
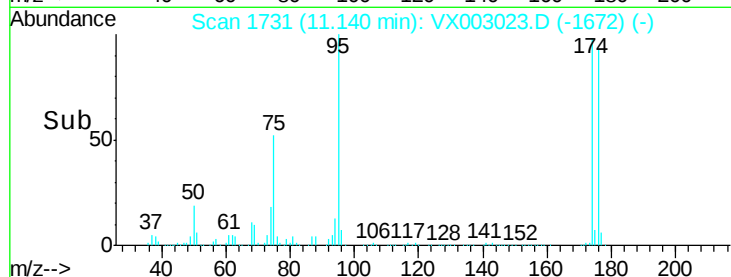
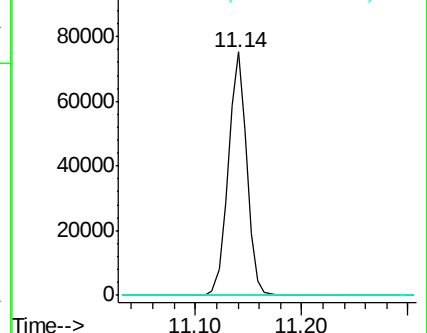
89 0.0 38.2 57.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.27 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

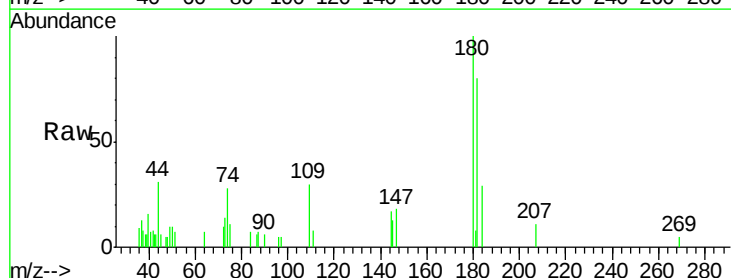
Tgt Ion: 180 Resp: 1273

Ion Ratio Lower Upper

180 100

182 87.4 47.7 143.1

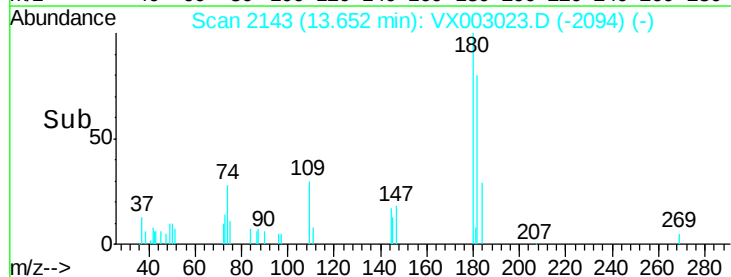
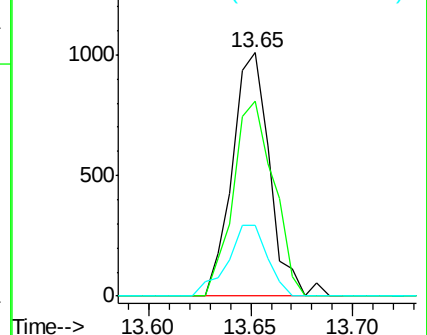
145 31.3 14.1 42.4

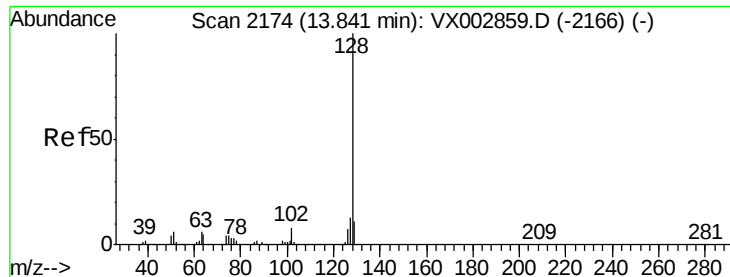


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

Instrument :

MSVOA_X

ClientSampleId :

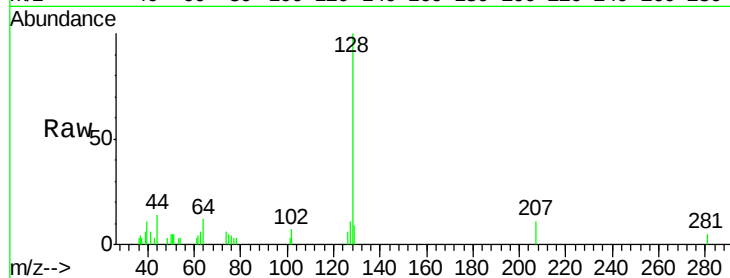
Tot Ion:128 Resp: 2610

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

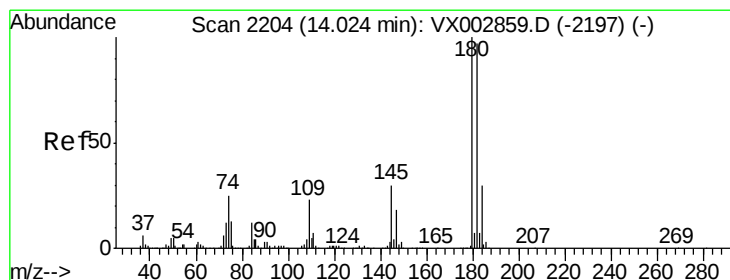
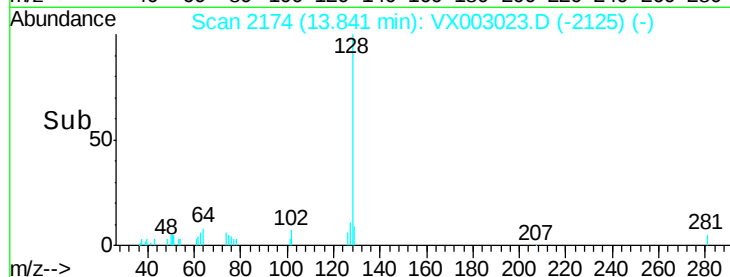
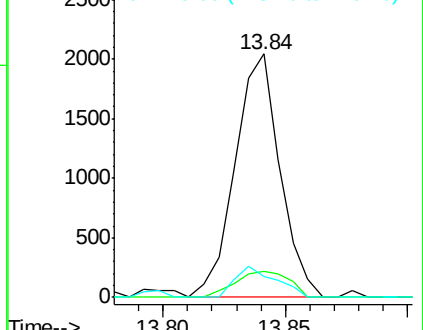
129 11.5 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.22 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX003023.D

Acq: 29 Jun 2018 12:45

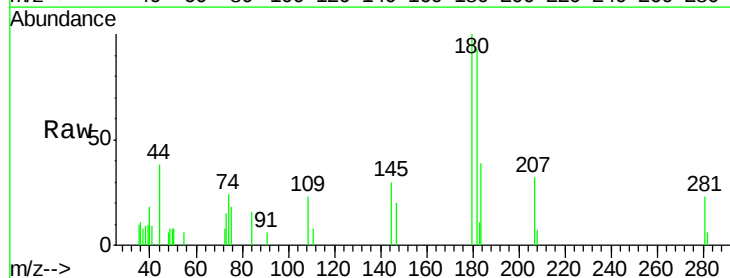
Tgt Ion:180 Resp: 1027

Ion Ratio Lower Upper

180 100

182 103.0 48.0 144.0

145 34.4 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

