

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004142.D
 Acq On : 17 Aug 2018 19:43
 Operator : JC/MD
 Sample : J4539-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 01:36:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	402168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	357450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207398	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	186523	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
35) Dibromofluoromethane	5.51	113	162281	53.92	ug/l	0.00
Spiked Amount			Recovery	=	107.84%	
50) Toluene-d8	8.72	98	580280	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
62) 4-Bromofluorobenzene	11.14	95	194609	43.97	ug/l	0.00
Spiked Amount			Recovery	=	87.94%	

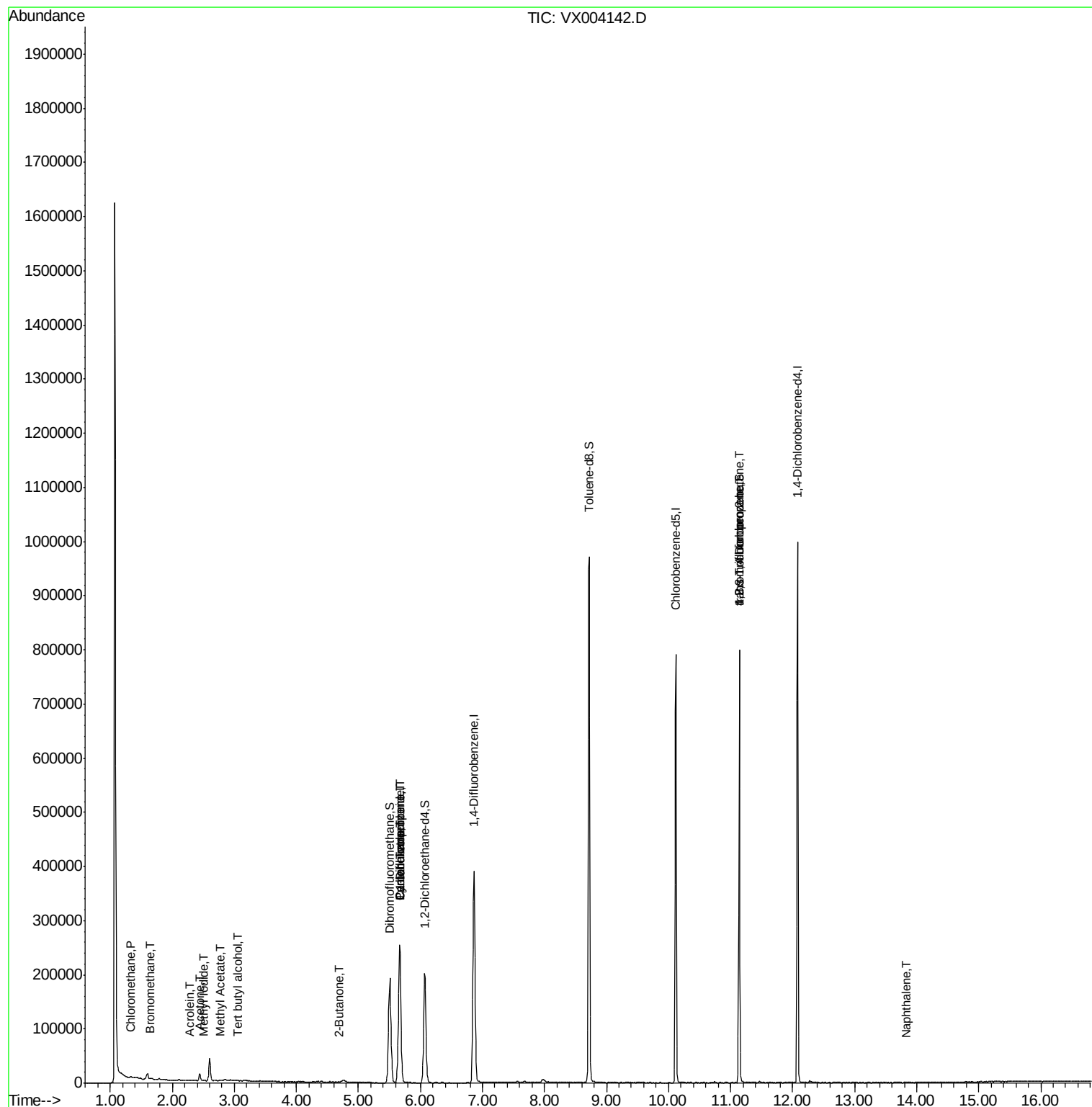
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	4448	1.44	ug/l	92
5) Bromomethane	1.65	94	885	0.35	ug/l	87
6) Chloroethane	1.67	64	296	Below Cal	#	42
10) Methyl Iodide	2.51	142	74	5.03	ug/l #	42
11) Tert butyl alcohol	3.04	59	1220	1.67	ug/l #	92
13) Acrolein	2.29	56	136	11.21	ug/l #	1
16) Acetone	2.44	43	13153	6.96	ug/l	97
18) Methyl Acetate	2.78	43	1604	0.38	ug/l #	87
20) Methylene Chloride	2.86	84	417	Below Cal		98
25) 2-Butanone	4.70	43	1094	0.36	ug/l #	86
31) Cyclohexane	5.66	56	5086	1.01	ug/l #	5
36) 1,1-Dichloropropene	5.66	75	17664	3.86	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22953	5.16	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	95308	22.91	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	95308	70.93	ug/l #	9
95) Naphthalene	13.83	128	390	1.17	ug/l #	86

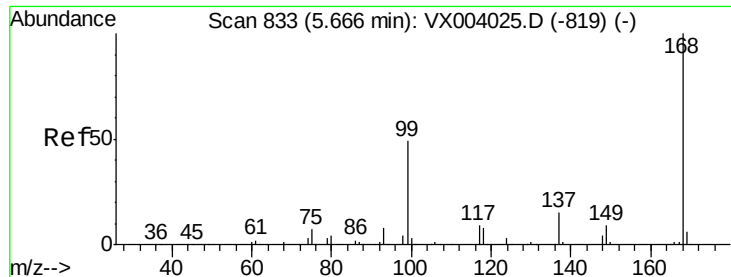
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

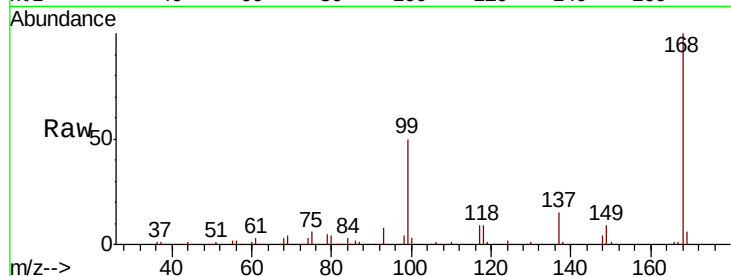
ClientSampleId :

Tot Ion:168 Resp: 257922

Ion Ratio Lower Upper

168 100

99 50.2 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

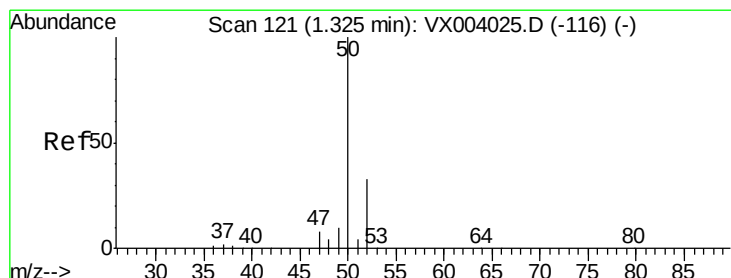
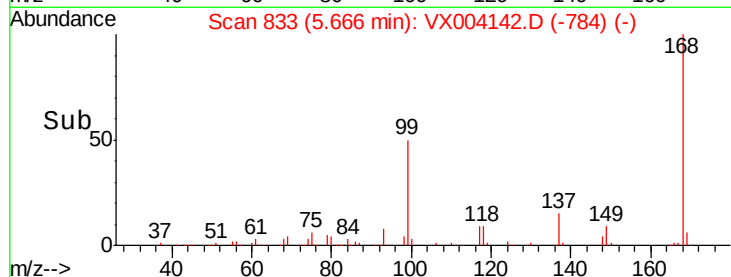
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.44 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004142.D

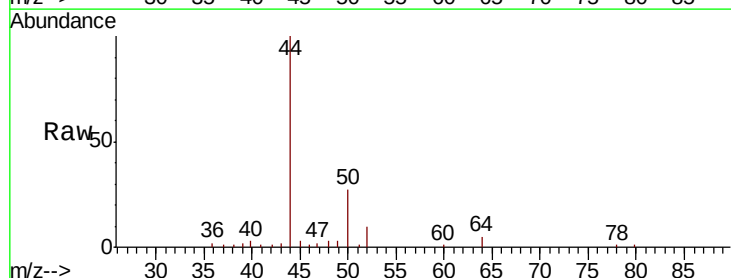
Acq: 17 Aug 2018 19:43

Tgt Ion: 50 Resp: 4448

Ion Ratio Lower Upper

50 100

52 38.0 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

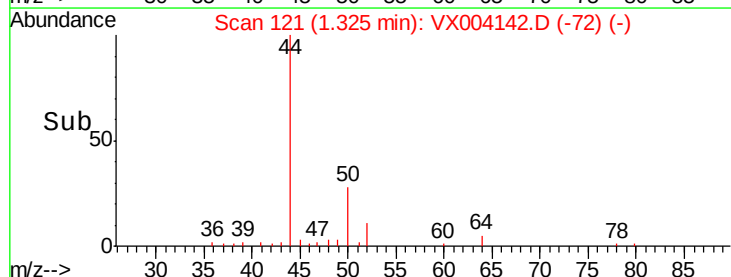
1500

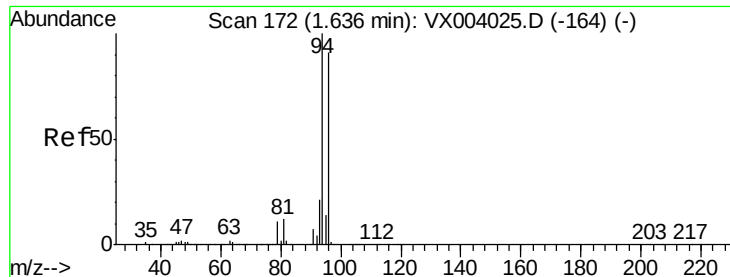
1000

500

0

Time--> 1.20 1.30 1.40





#5

Bromomethane

Concen: 0.35 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

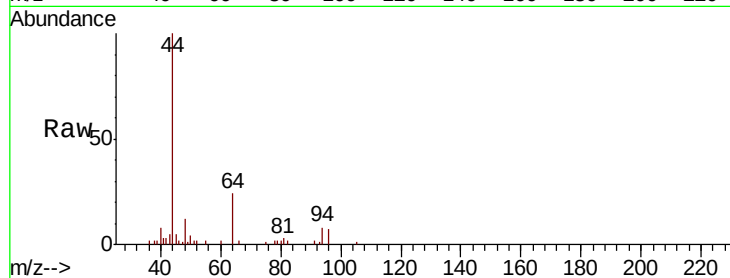
ClientSampled :

Tot Ion: 94 Resp: 885

Ion Ratio Lower Upper

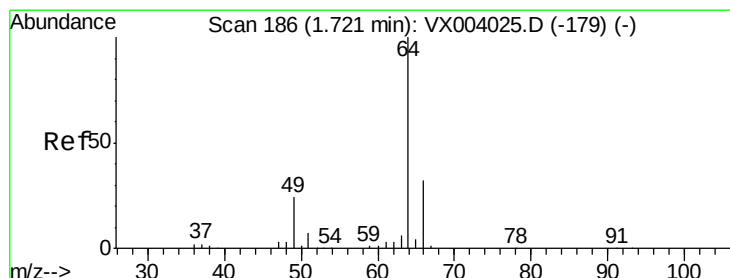
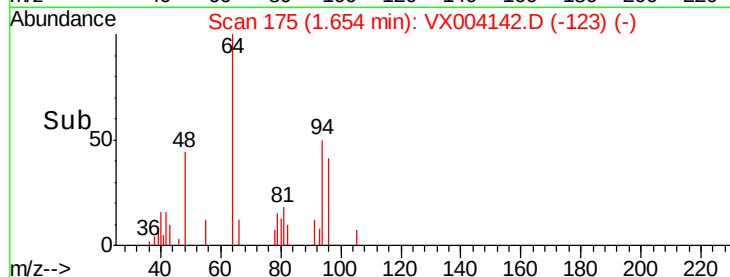
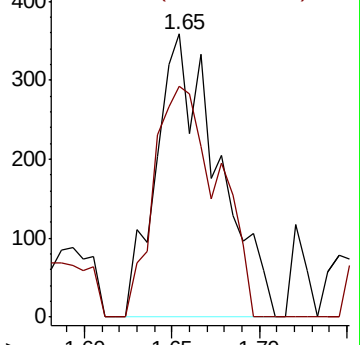
94 100

96 81.8 75.2 112.8



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: 1.67 min Scan# 177

Delta R.T. -0.05 min

Lab File: VX004142.D

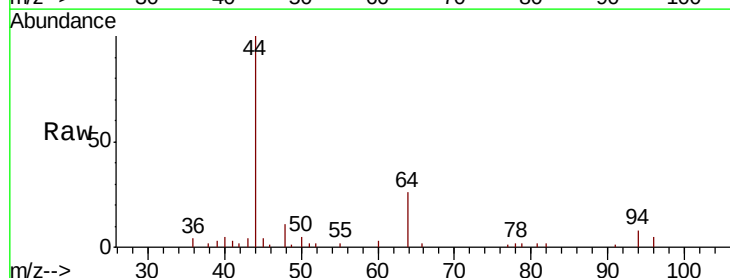
Acq: 17 Aug 2018 19:43

Tgt Ion: 64 Resp: 296

Ion Ratio Lower Upper

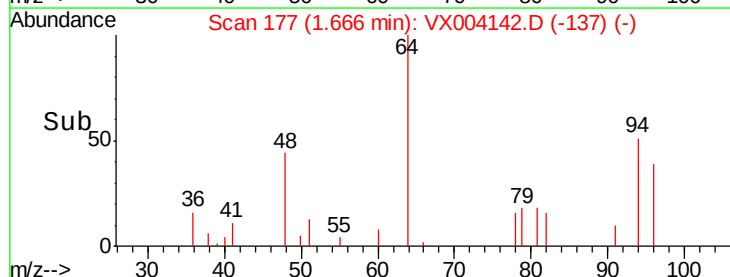
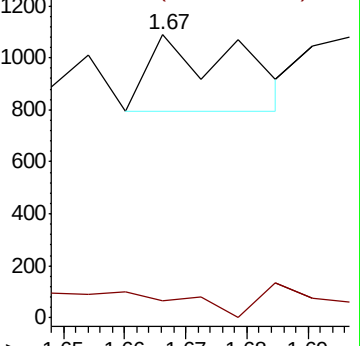
64 100

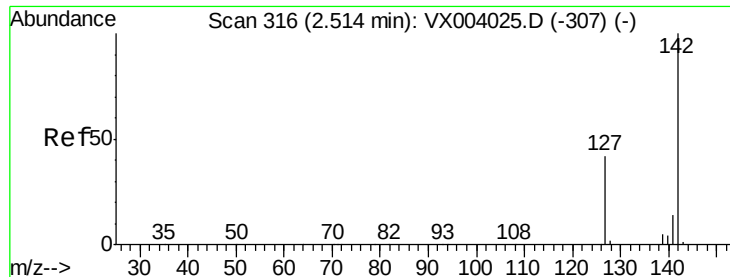
66 0.0 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

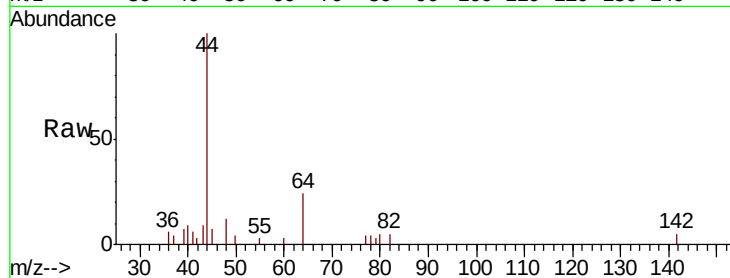




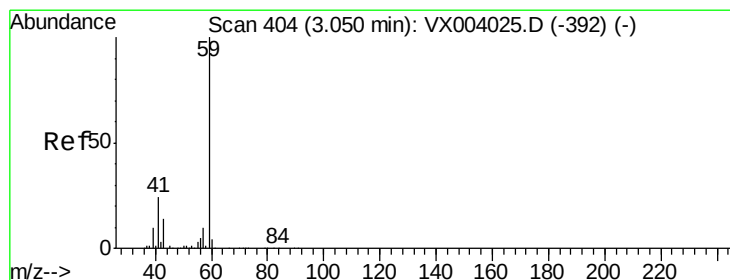
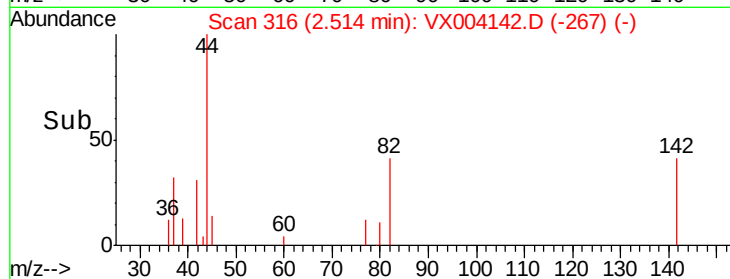
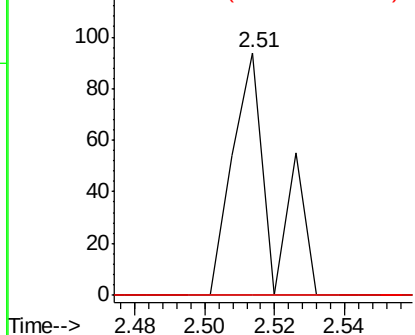
#10
Methyl Iodide
Concen: 5.03 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 74
Ion Ratio Lower Upper
142 100
127 0.0 33.1 49.7#
141 0.0 11.1 16.7#

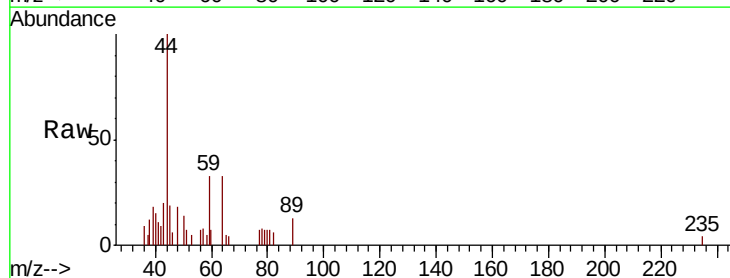


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

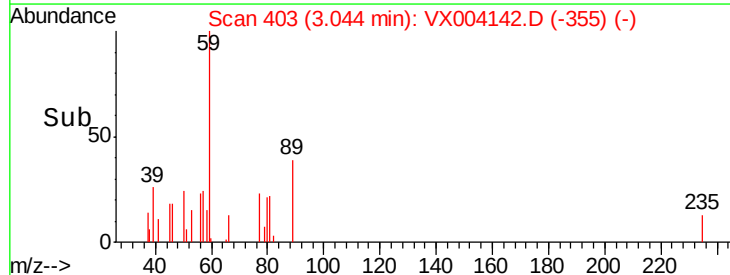
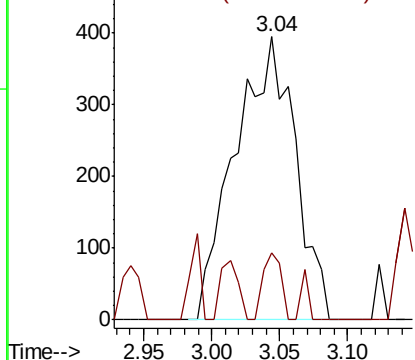


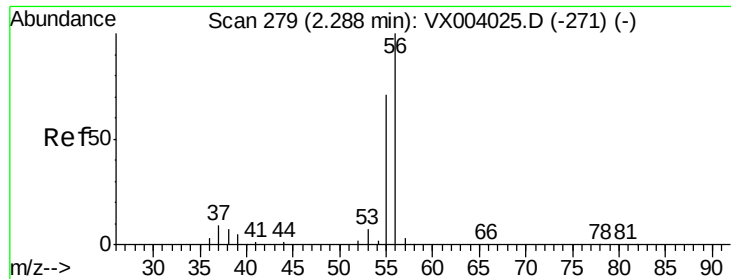
#11
Tert butyl alcohol
Concen: 1.67 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

Tgt Ion: 59 Resp: 1220
Ion Ratio Lower Upper
59 100
57 7.3 8.1 12.1#



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

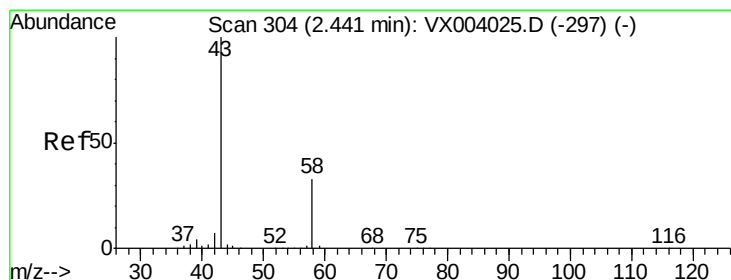
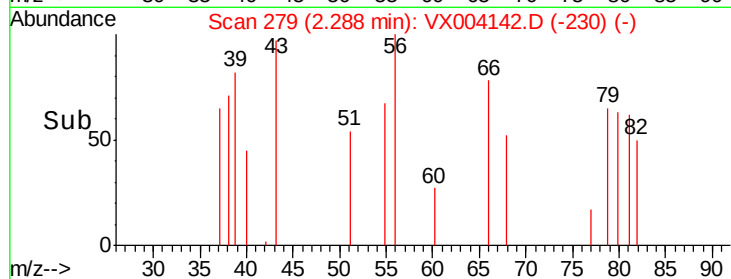
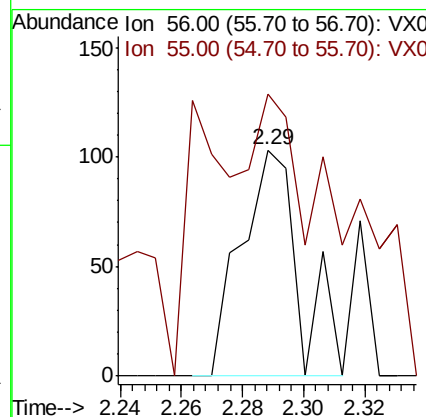
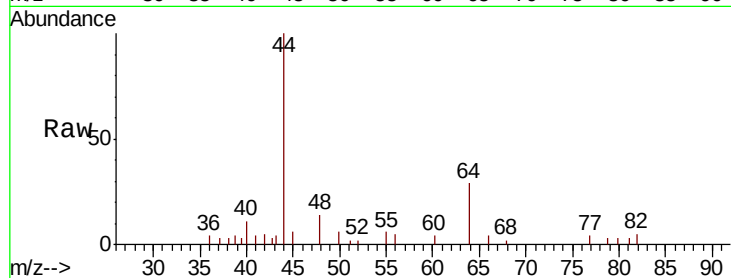




#13
Acrolein
Concen: 11.21 ug/l
RT: 2.29 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

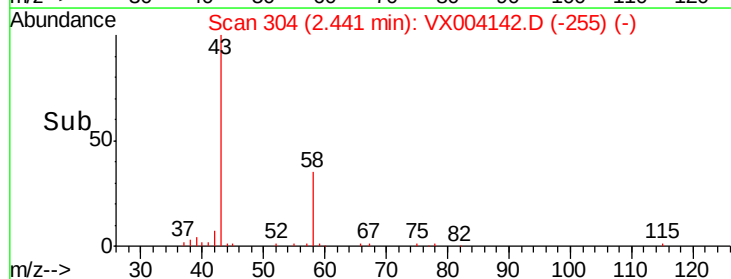
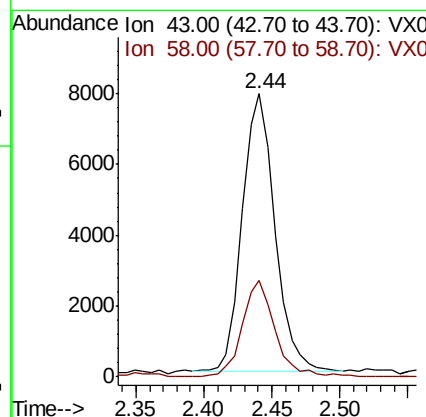
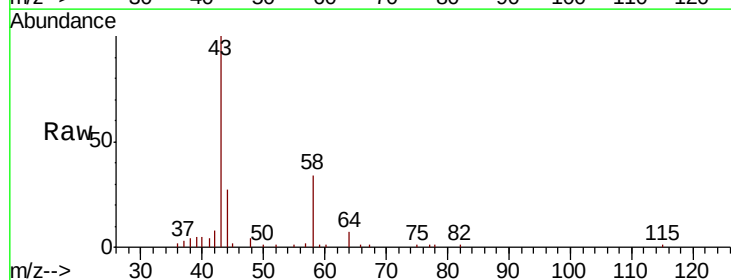
Instrument :
MSVOA_X
ClientSampled :

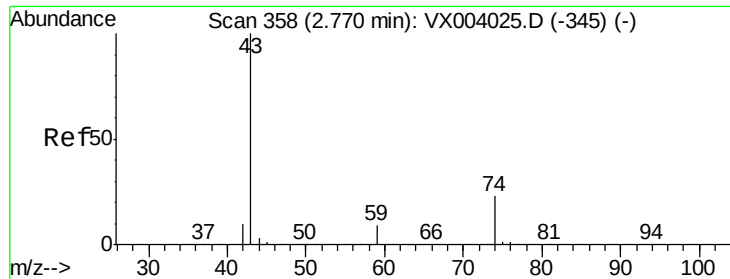
Tot Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 206.6 56.1 84.1#



#16
Acetone
Concen: 6.96 ug/l
RT: 2.44 min Scan# 304
Delta R.T. -0.00 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

Tgt Ion: 43 Resp: 13153
Ion Ratio Lower Upper
43 100
58 34.9 26.4 39.6

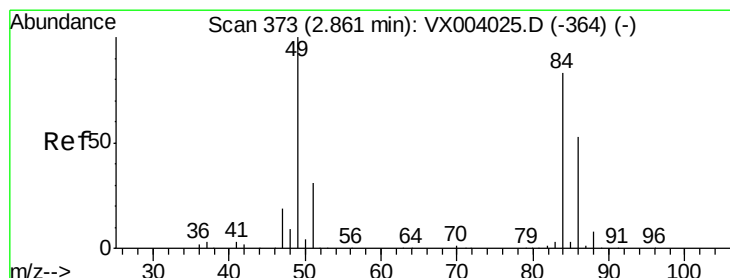
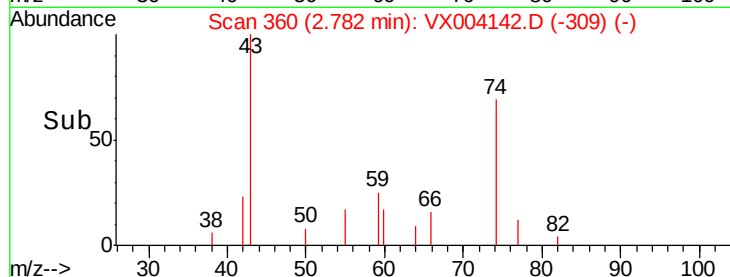
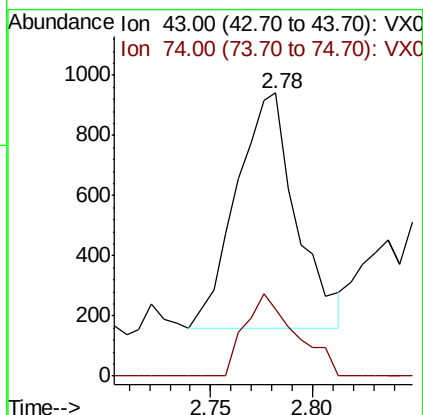
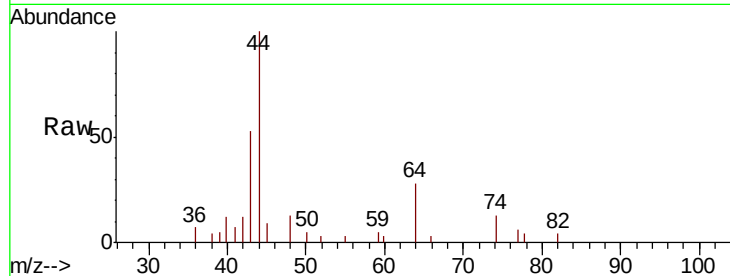




#18
Methyl Acetate
Concen: 0.38 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.01 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

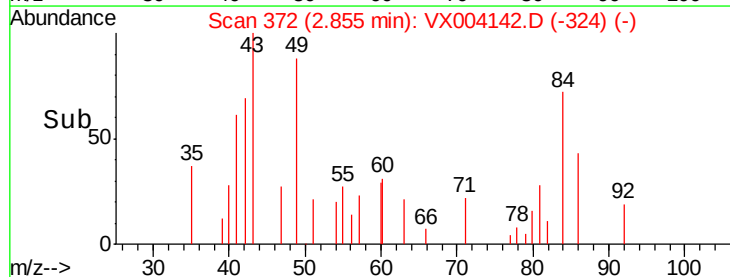
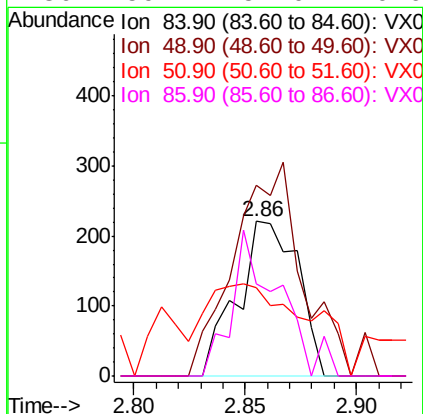
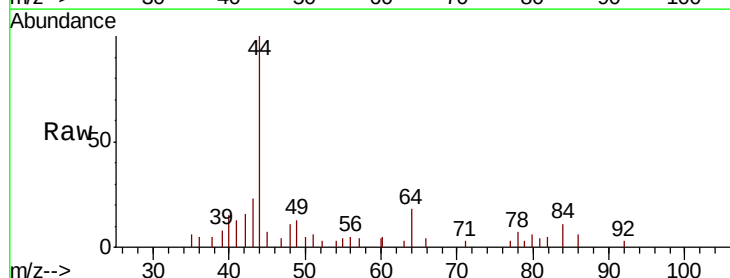
Instrument :
MSVOA_X
ClientSampled :

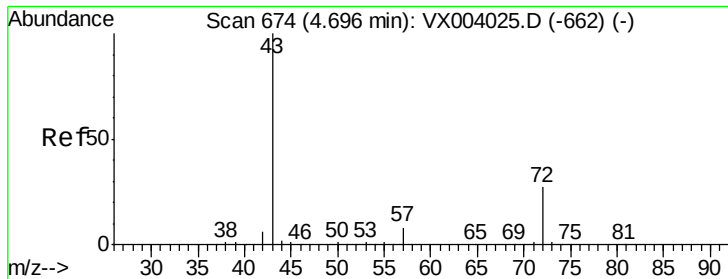
Tot Ion: 43 Resp: 1604
Ion Ratio Lower Upper
43 100
74 30.0 18.9 28.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

Tgt Ion: 84 Resp: 417
Ion Ratio Lower Upper
84 100
49 123.1 98.9 148.3
51 34.8 29.9 44.9
86 59.7 51.0 76.6

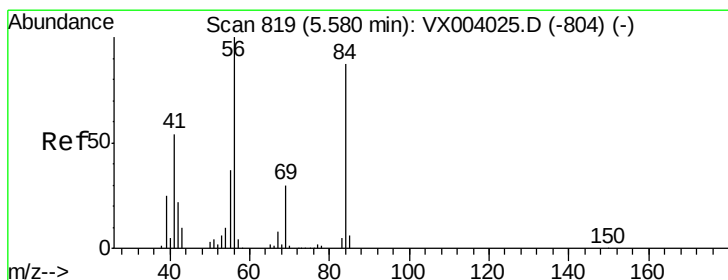
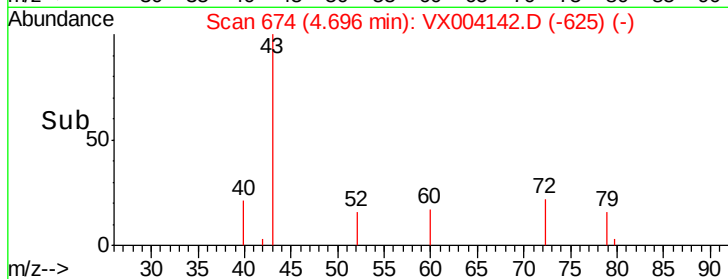
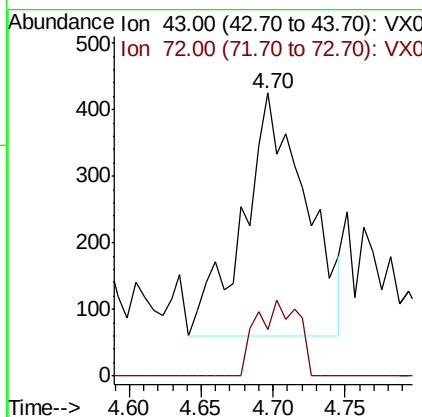
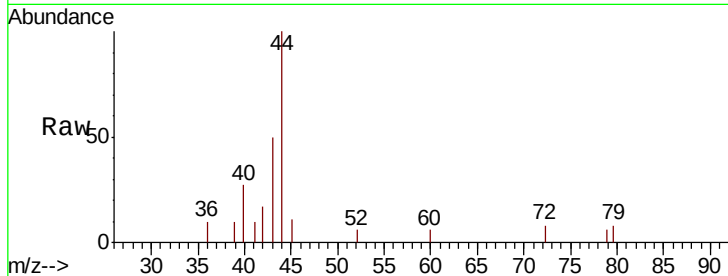




#25
2-Butanone
Concen: 0.36 ug/l
RT: 4.70 min Scan# 674
Delta R.T. -0.00 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

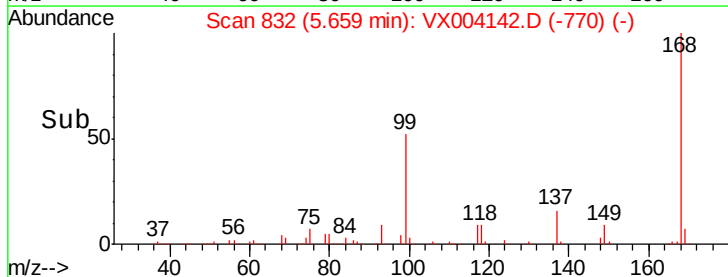
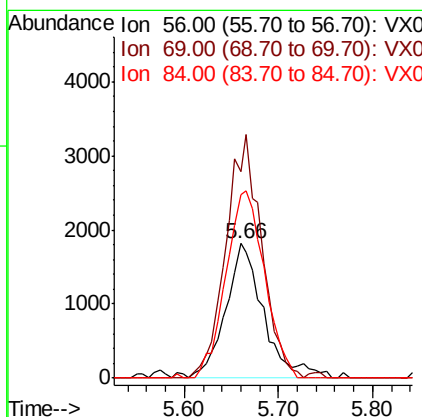
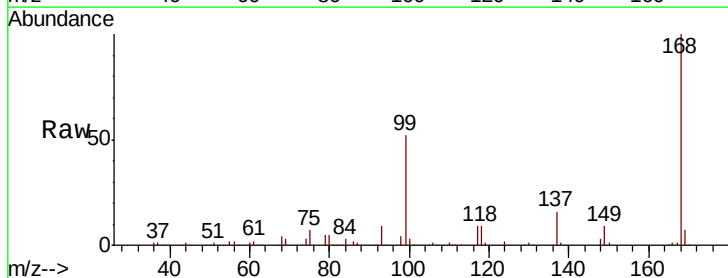
Instrument :
MSVOA_X
ClientSampled :

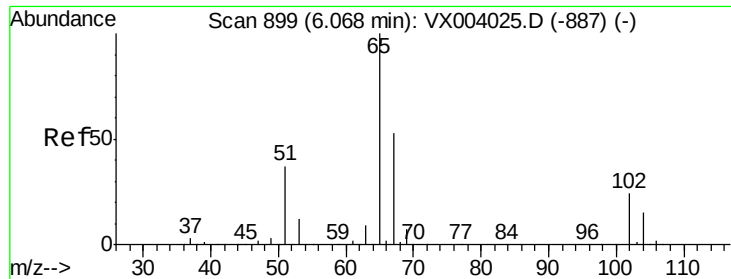
Tot Ion: 43 Resp: 1094
Ion Ratio Lower Upper
43 100
72 19.2 21.4 32.0#



#31
Cyclohexane
Concen: 1.01 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX004142.D
Acq: 17 Aug 2018 19:43

Tgt Ion: 56 Resp: 5086
Ion Ratio Lower Upper
56 100
69 153.4 24.9 37.3#
84 136.8 71.7 107.5#

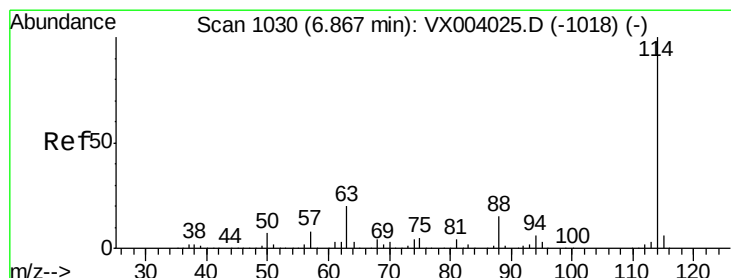
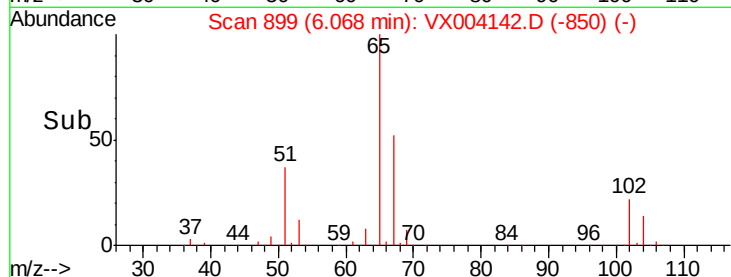
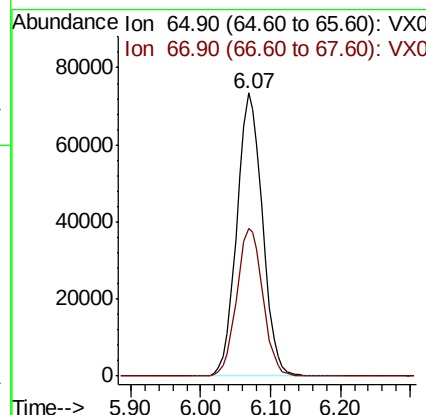
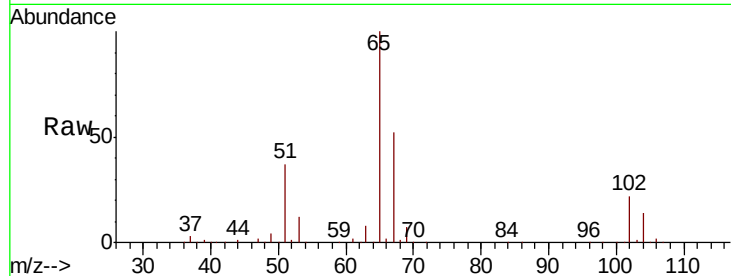




#33
 1,2-Dichloroethane-d4
 Concen: 51.33 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004142.D
 Acq: 17 Aug 2018 19:43

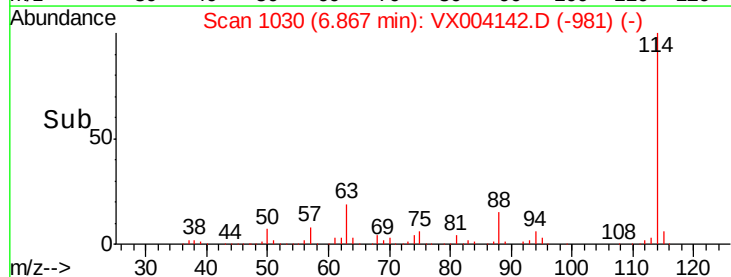
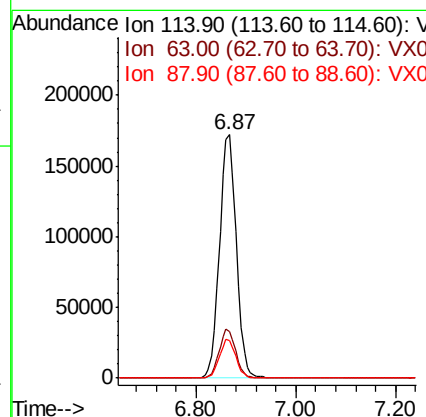
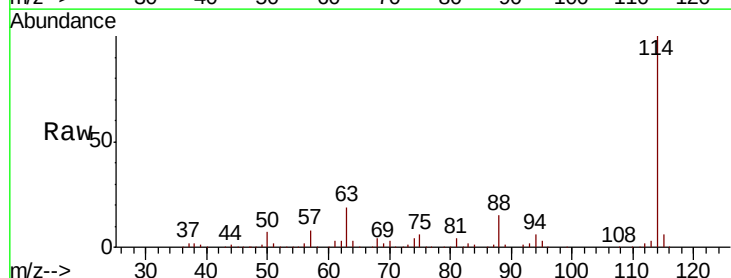
Instrument :
 MSVOA_X
 ClientSampleId :

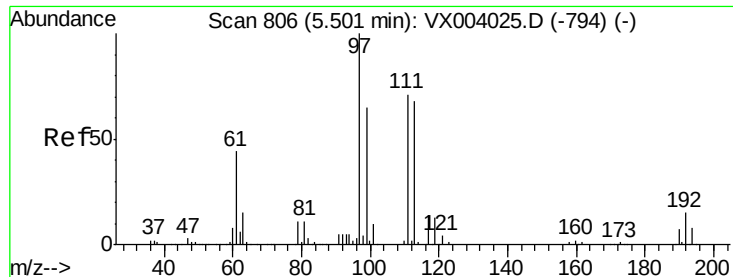
Tot Ion: 65 Resp: 186523
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004142.D
 Acq: 17 Aug 2018 19:43

Tgt Ion: 114 Resp: 402168
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.3 0.0 32.0

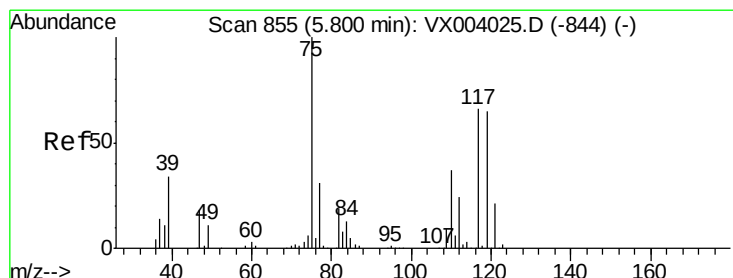
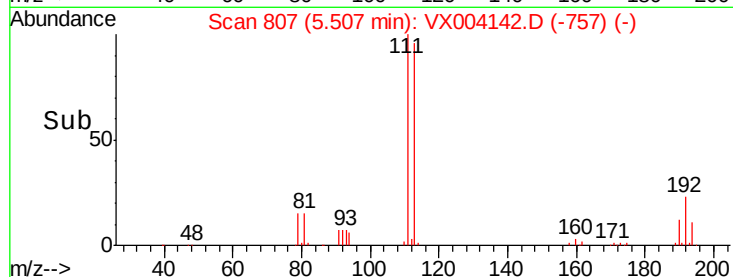
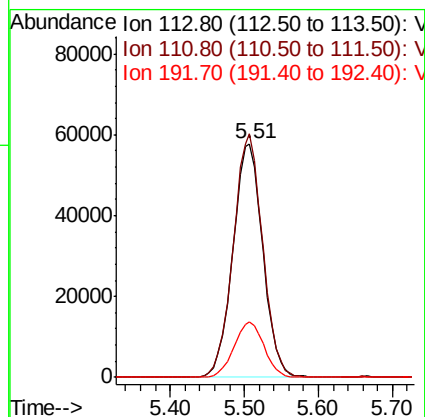
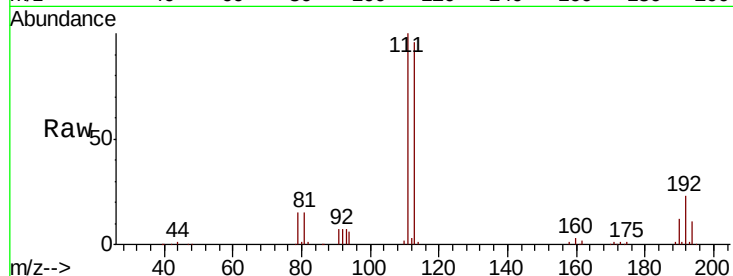




#35
 Dibromofluoromethane
 Concen: 53.92 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004142.D
 Acq: 17 Aug 2018 19:43

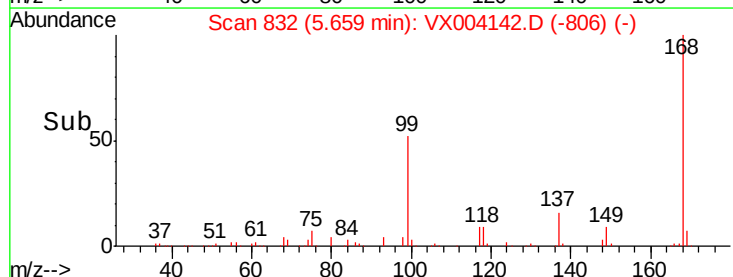
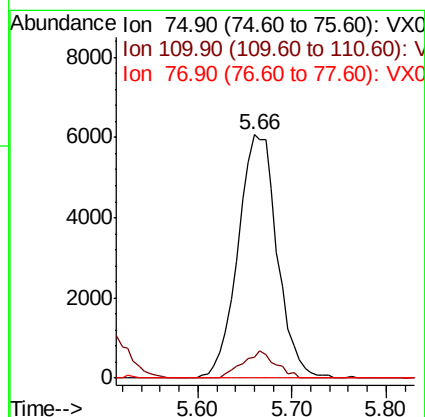
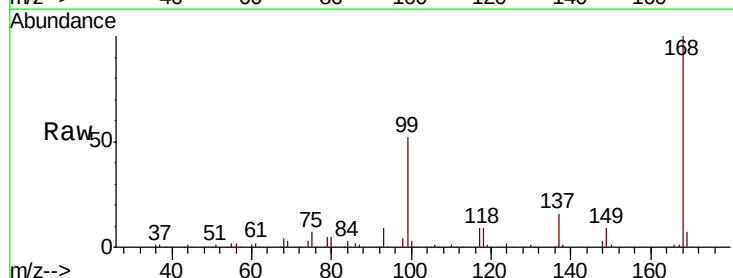
Instrument :
 MSVOA_X
 ClientSampleId :

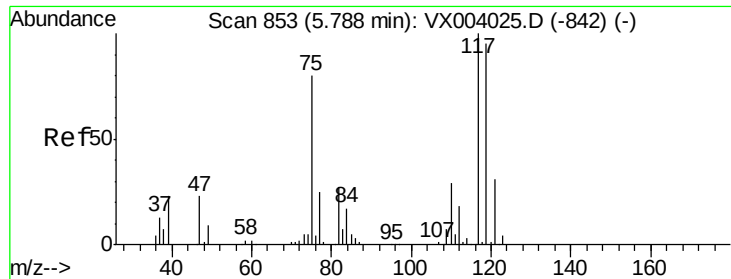
Tot Ion:113 Resp: 162281
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 23.8 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.86 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004142.D
 Acq: 17 Aug 2018 19:43

Tgt Ion: 75 Resp: 17664
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.2 54.6#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.16 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

ClientSampled :

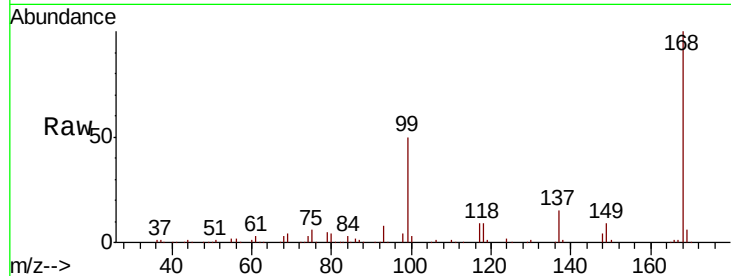
Tot Ion:117 Resp: 22953

Ion Ratio Lower Upper

117 100

119 6.3 79.5 119.3#

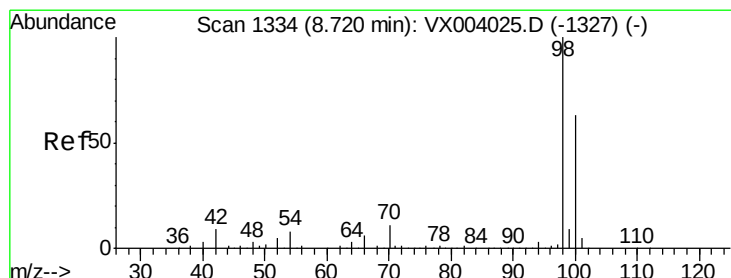
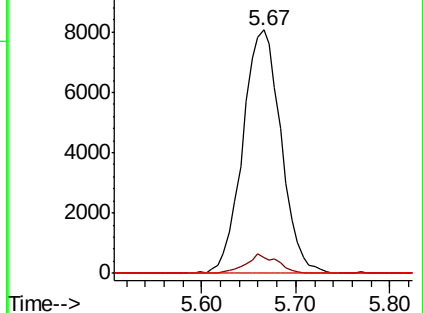
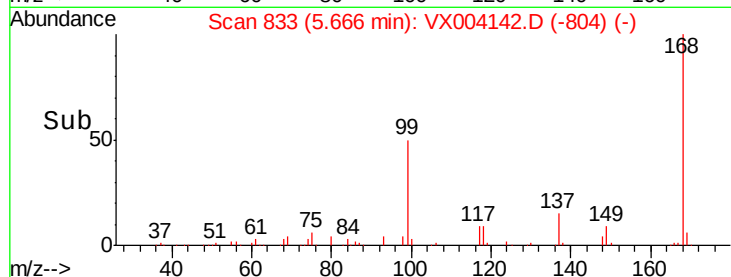
121 0.0 25.0 37.4#



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: 47.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004142.D

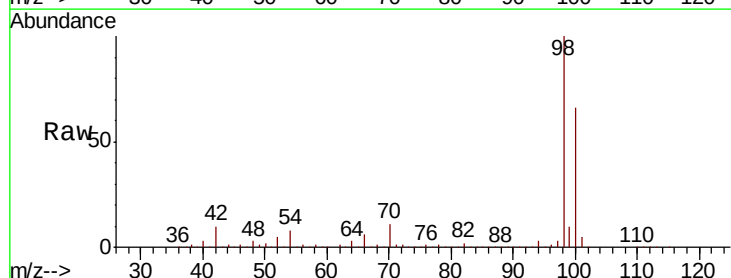
Acq: 17 Aug 2018 19:43

Tgt Ion: 98 Resp: 580280

Ion Ratio Lower Upper

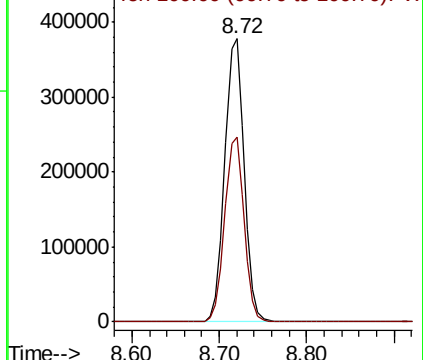
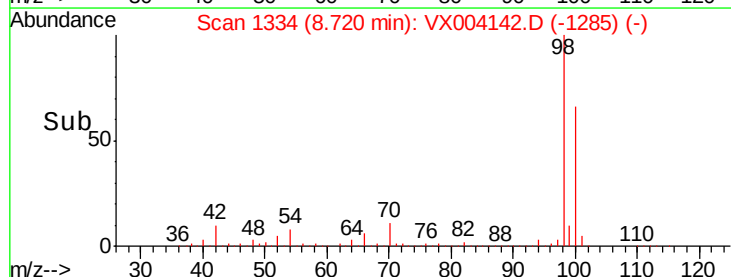
98 100

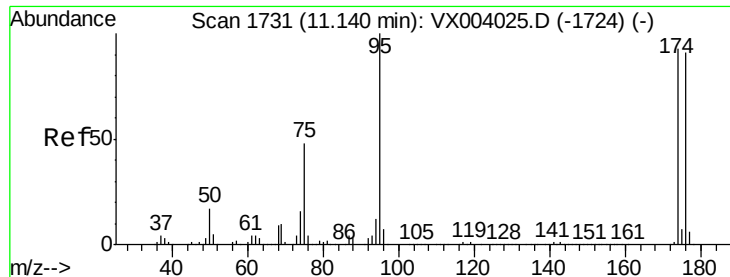
100 65.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 43.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

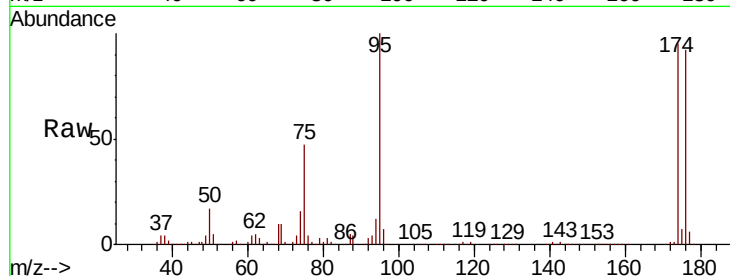
Tot Ion: 95 Resp: 194609

Ion Ratio Lower Upper

95 100

174 92.5 0.0 182.8

176 90.6 0.0 179.0



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

11.14

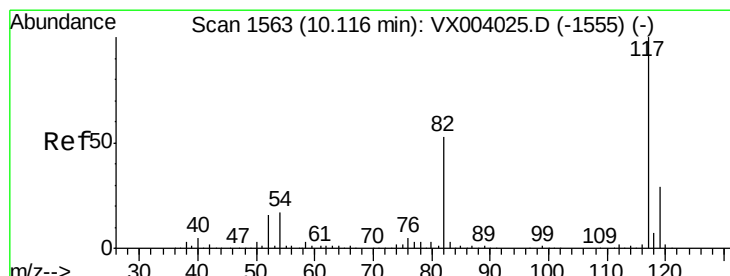
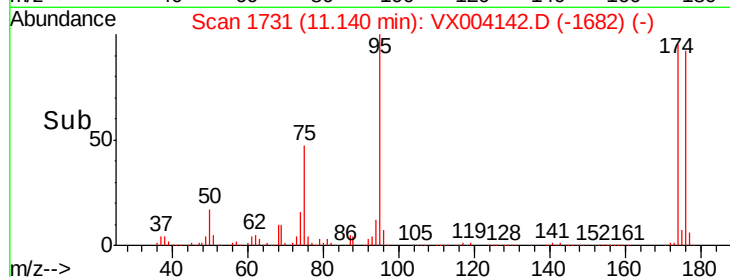
150000

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: VX004142.D

Acq: 17 Aug 2018 19:43

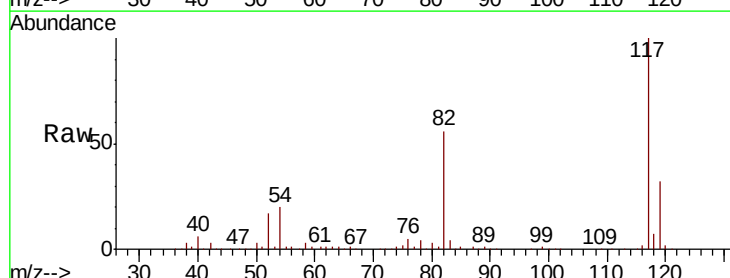
Tgt Ion: 117 Resp: 357450

Ion Ratio Lower Upper

117 100

82 56.0 45.4 68.0

119 31.8 26.6 40.0



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

10.12

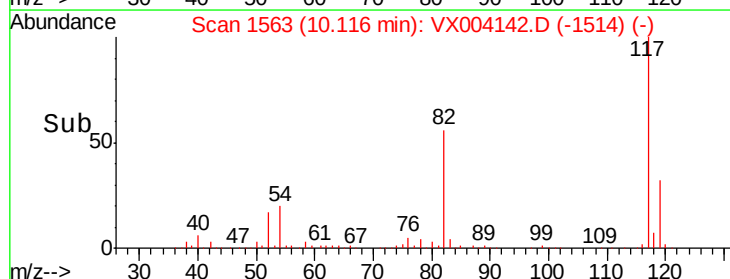
300000

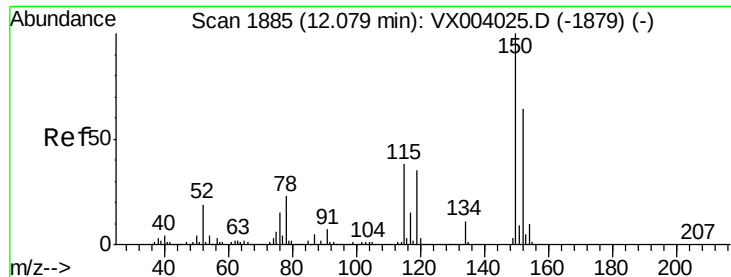
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

ClientSampleId :

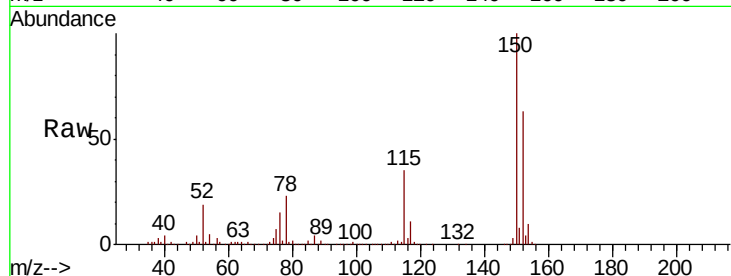
Tot Ion:152 Resp: 207398

Ion Ratio Lower Upper

152 100

115 55.1 39.1 117.3

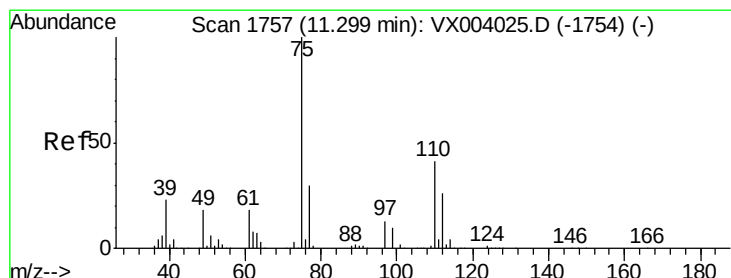
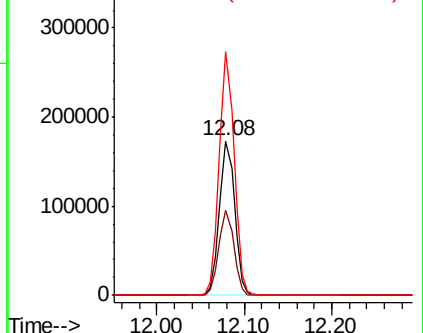
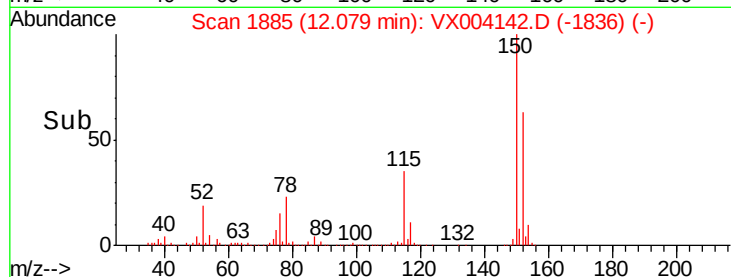
150 155.2 0.0 349.2



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: 22.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004142.D

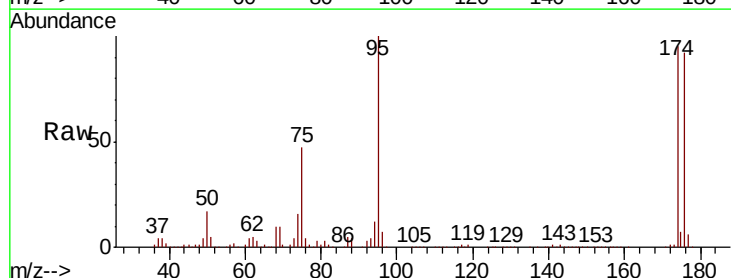
Acq: 17 Aug 2018 19:43

Tgt Ion: 75 Resp: 95308

Ion Ratio Lower Upper

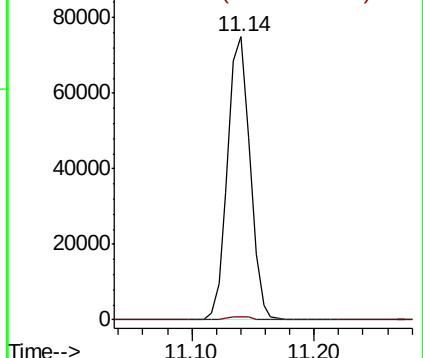
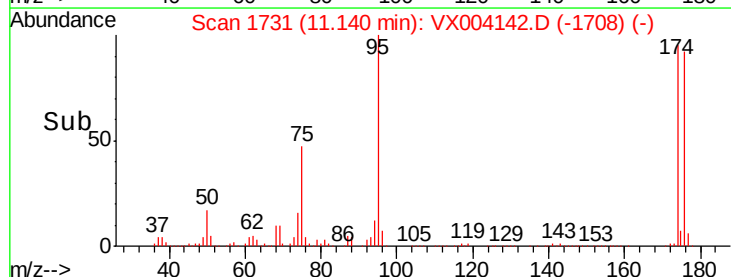
75 100

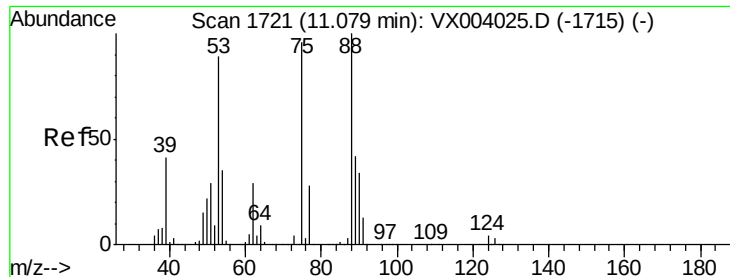
77 1.4 20.8 62.5#



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: 70.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

Instrument :

MSVOA_X

ClientSampled :

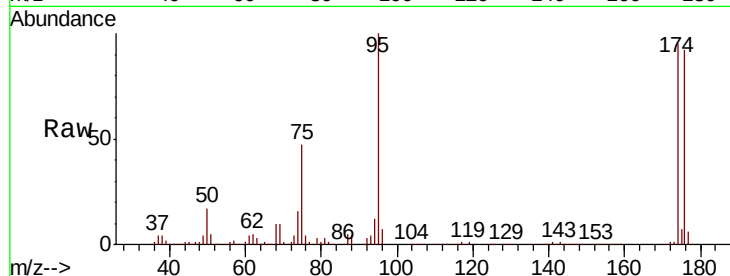
Tot Ion: 75 Resp: 95308

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

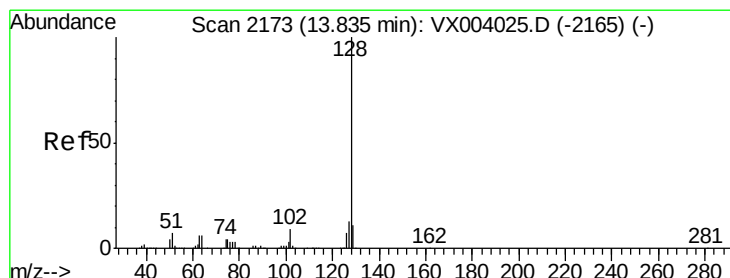
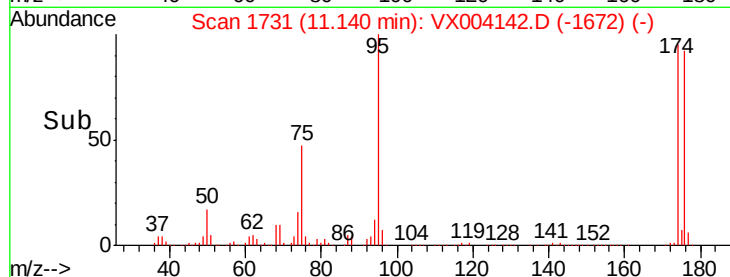
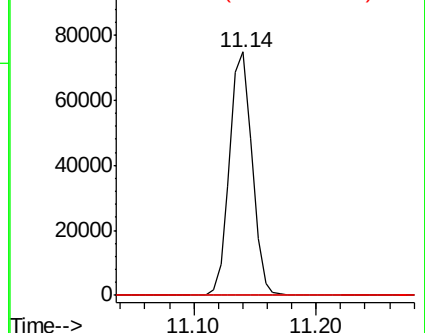
89 0.0 37.8 56.8#



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



#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004142.D

Acq: 17 Aug 2018 19:43

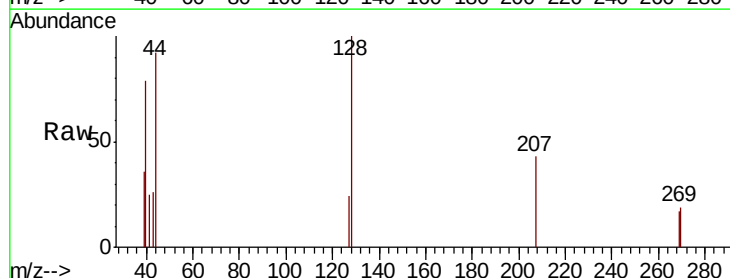
Tgt Ion: 128 Resp: 390

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.2

129 0.0 8.8 13.2#



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

