

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\
 Data File : VX007461.D
 Acq On : 11 Feb 2019 12:13
 Operator : JC/SP
 Sample : K1433-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B98TB01-190207

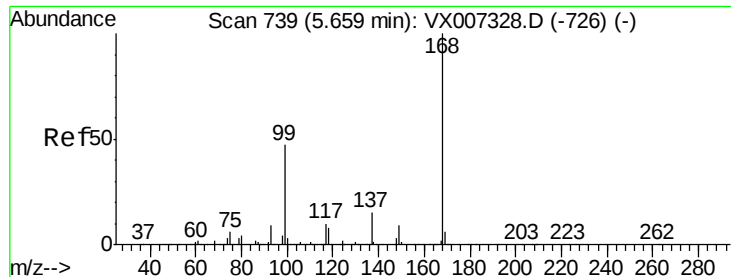
Quant Time: Feb 12 00:01:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	503667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	775214	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	729038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	354920	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	270477	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	5.50	113	250824	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
50) Toluene-d8	8.71	98	934860	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.13	95	333750	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	413	0.244	ug/l #	1
5) Bromomethane	1.65	94	1477	Below Cal	#	64
10) Methyl Iodide	2.52	142	1786	0.234	ug/l #	69
11) Tert butyl alcohol	3.09	59	300	0.271	ug/l #	55
13) Acrolein	2.30	56	663	1.278	ug/l	98
15) Acrylonitrile	3.14	53	1278	0.467	ug/l #	62
16) Acetone	2.45	43	2015	0.823	ug/l #	84
17) Carbon Disulfide	2.57	76	3024	2.351	ug/l #	89
18) Methyl Acetate	2.78	43	1278	0.791	ug/l #	54
20) Methylene Chloride	2.87	84	1415	Below Cal	#	58
31) Cyclohexane	5.66	56	8410	1.131	ug/l #	4
36) 1,1-Dichloropropene	5.67	75	32821	4.719	ug/l #	48
38) Carbon Tetrachloride	5.67	117	45345	6.720	ug/l #	18
49) 1,4-Dioxane	7.75	88	167	8.222	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	156804	22.713	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	156804	68.496	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

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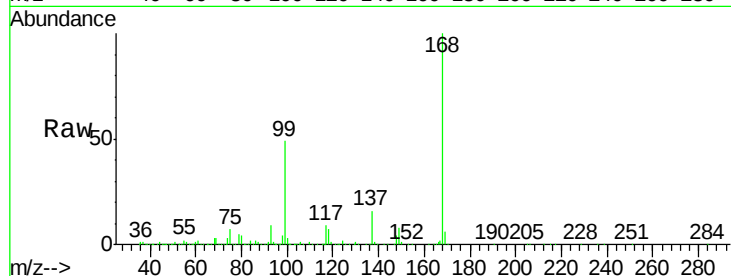
B98TB01-190207

Tot Ion:168 Resp: 503667

Ion Ratio Lower Upper

168 100

99 49.2 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

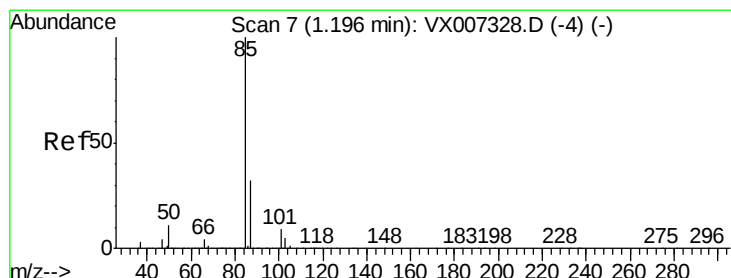
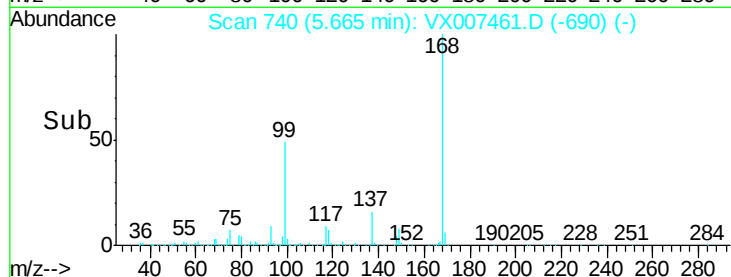
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.244 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007461.D

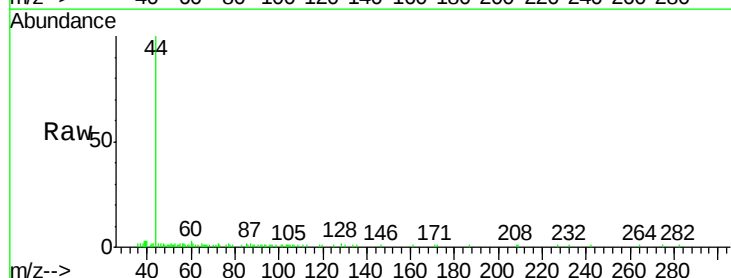
Acq: 11 Feb 2019 12:13

Tgt Ion: 85 Resp: 413

Ion Ratio Lower Upper

85 100

87 117.3 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

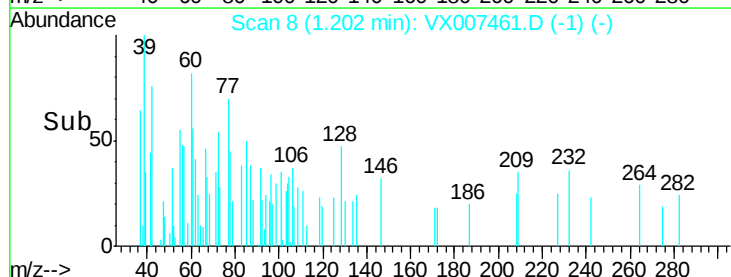
300

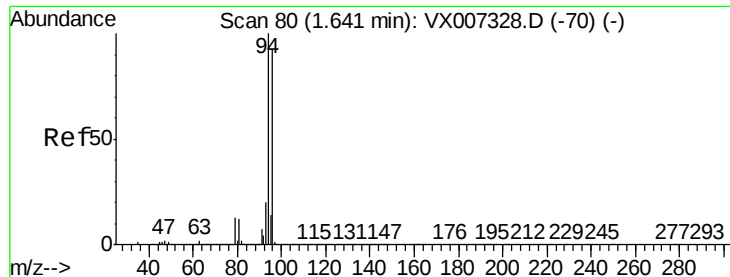
200

100

0

Time--> 1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

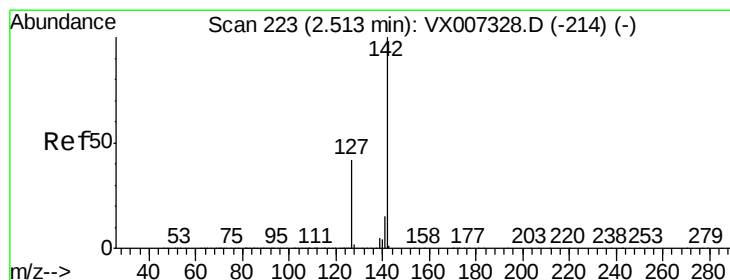
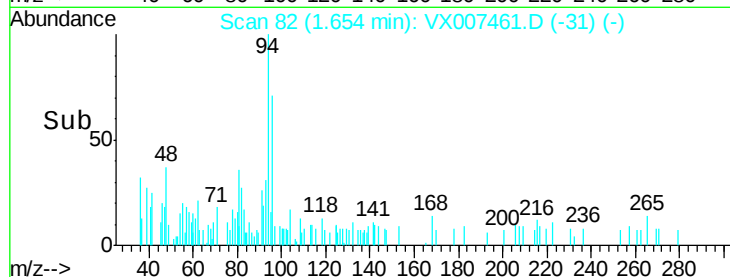
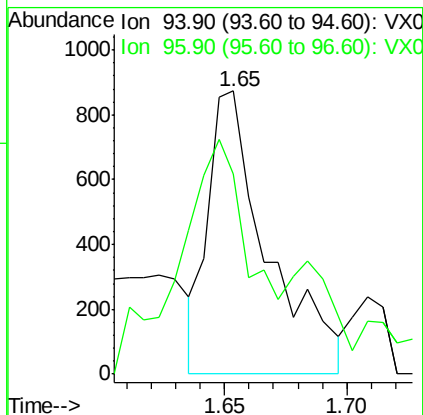
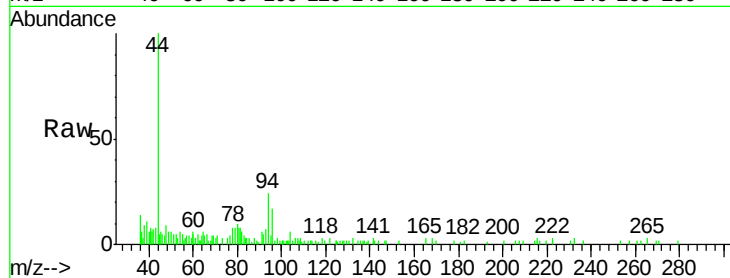
B98TB01-190207

Tot Ion: 94 Resp: 1477

Ion Ratio Lower Upper

94 100

96 57.9 73.9 110.9#



#10

Methyl Iodide

Concen: 0.234 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

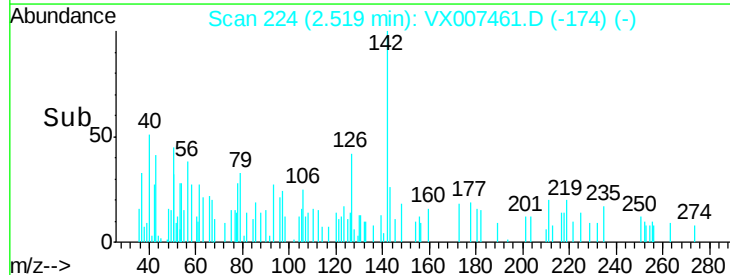
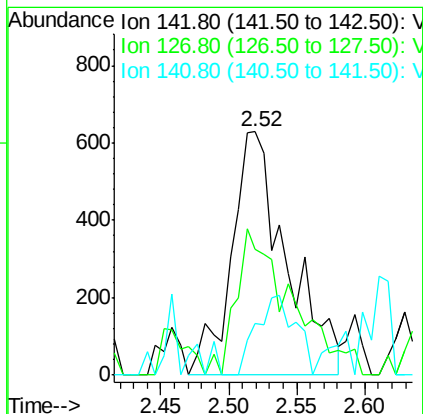
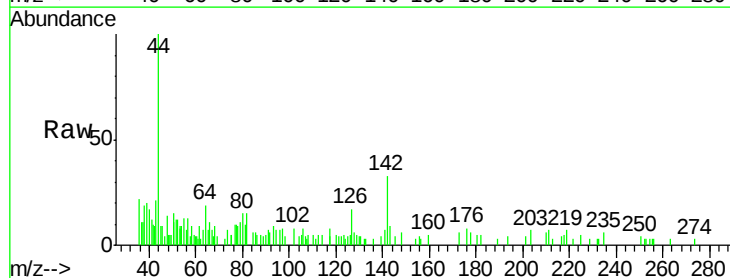
Tgt Ion: 142 Resp: 1786

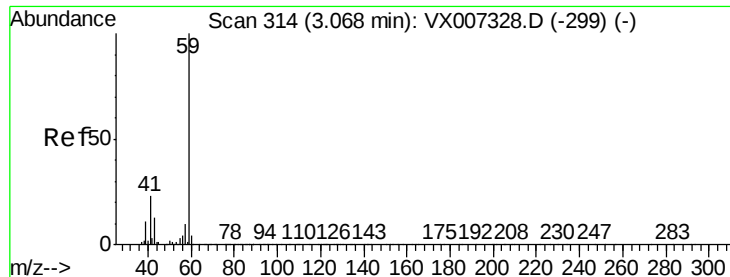
Ion Ratio Lower Upper

142 100

127 60.6 33.7 50.5#

141 0.0 11.3 16.9#

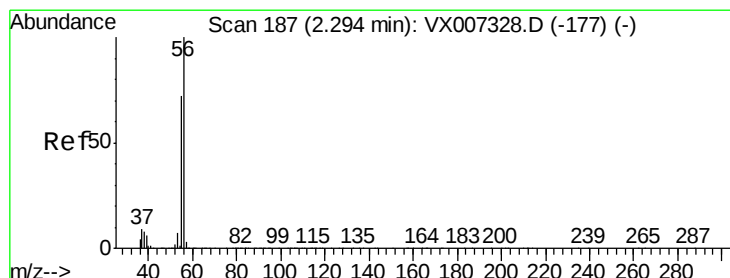
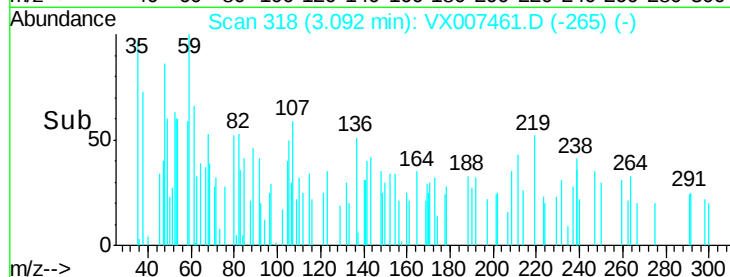
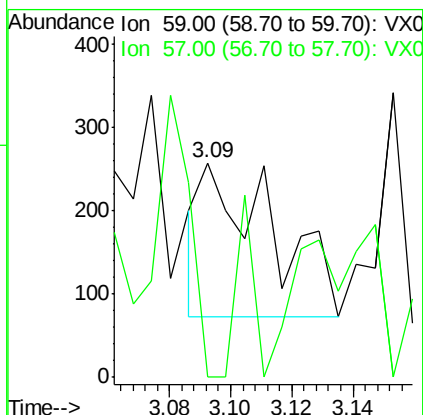
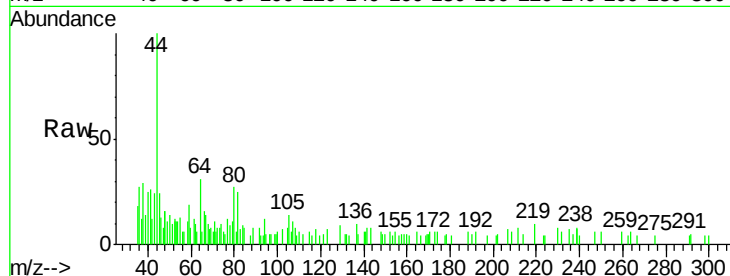




#11
Tert butvl alcohol
Concen: 0.271 ug/l
RT: 3.09 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX007461.D
Acq: 11 Feb 2019 12:13

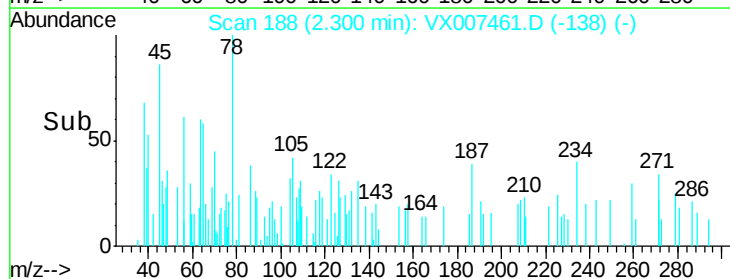
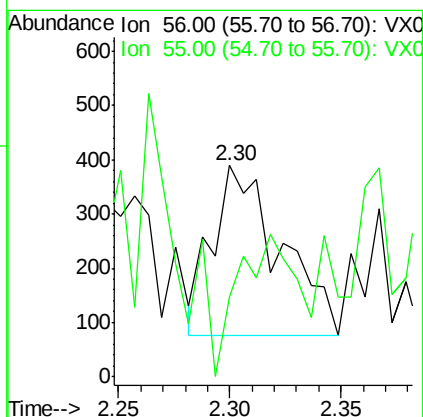
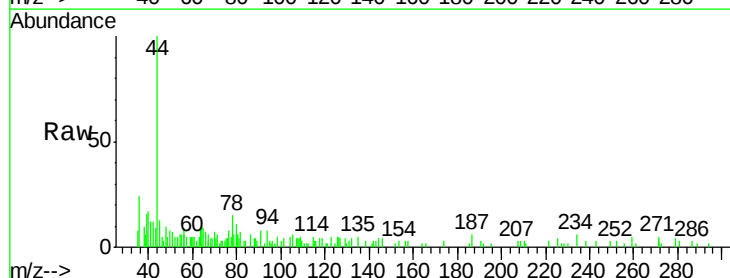
Instrument :
MSVOA_X
ClientSampleId :
B98TB01-190207

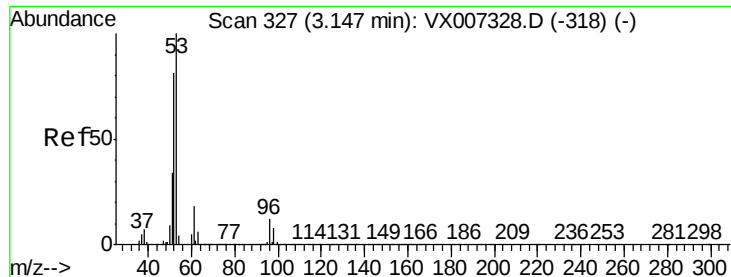
Tot Ion: 59 Resp: 300
Ion Ratio Lower Upper
59 100
57 26.7 8.1 12.1#



#13
Acrolein
Concen: 1.278 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX007461.D
Acq: 11 Feb 2019 12:13

Tgt Ion: 56 Resp: 663
Ion Ratio Lower Upper
56 100
55 72.9 56.9 85.3





#15

Acrylonitrile

Concen: 0.467 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

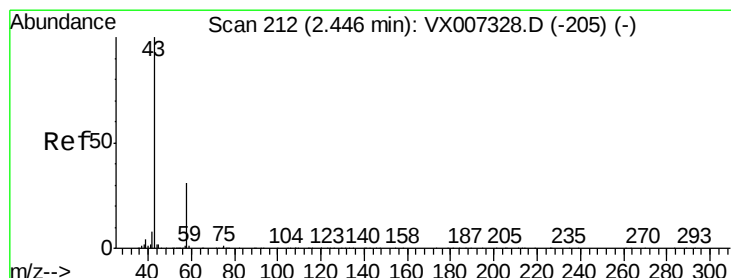
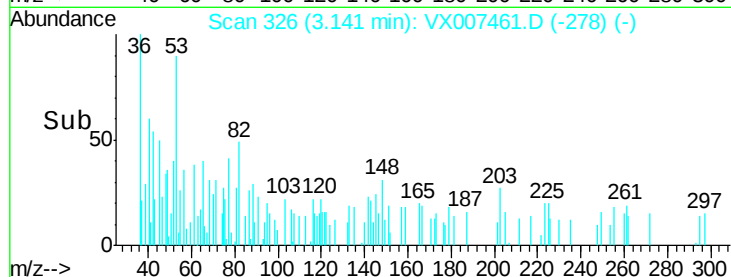
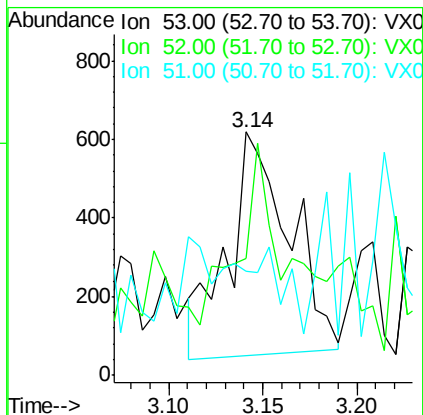
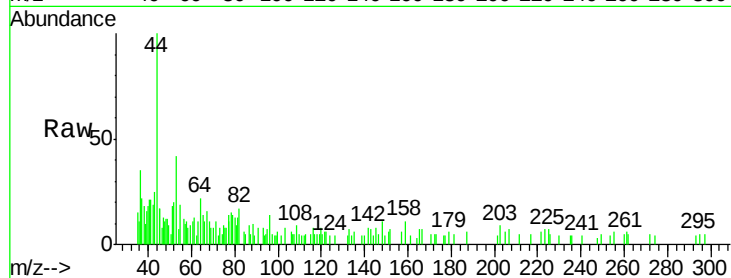
Tot Ion: 53 Resp: 1278

Ion Ratio Lower Upper

53 100

52 57.8 66.4 99.6#

51 0.0 28.4 42.6#



#16

Acetone

Concen: 0.823 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007461.D

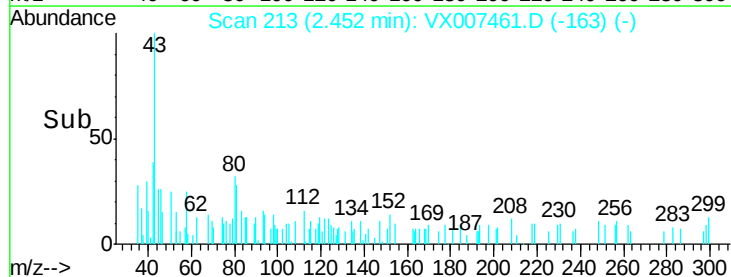
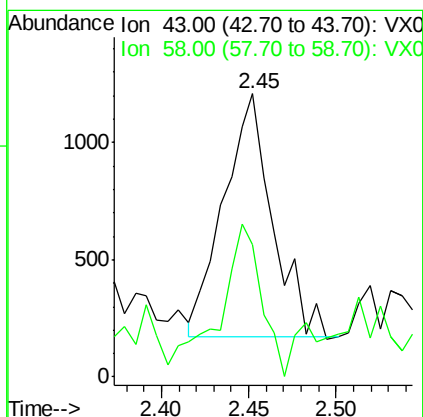
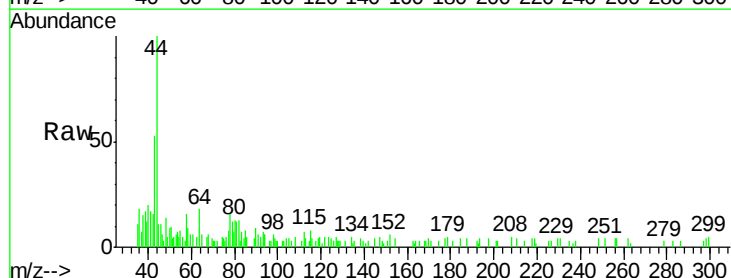
Acq: 11 Feb 2019 12:13

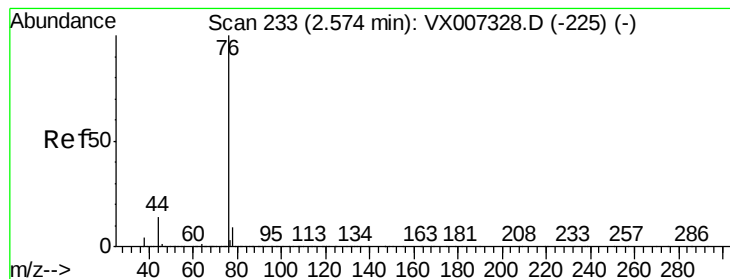
Tgt Ion: 43 Resp: 2015

Ion Ratio Lower Upper

43 100

58 39.9 24.9 37.3#





#17

Carbon Disulfide

Concen: 2.351 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

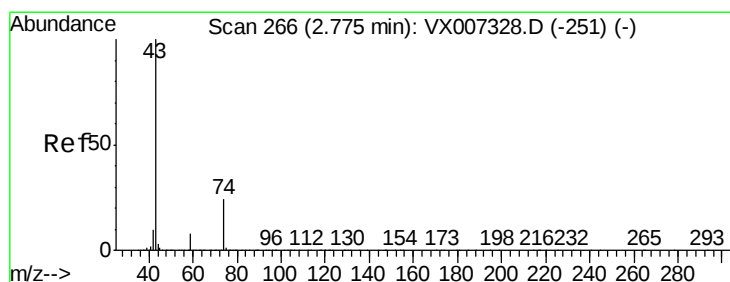
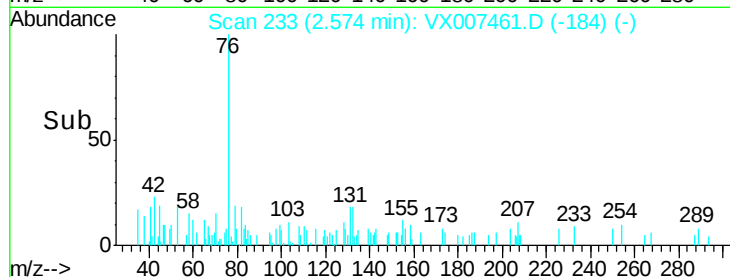
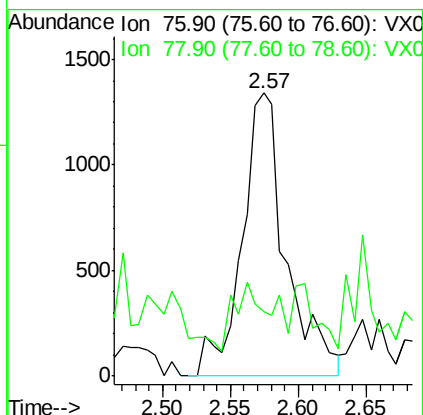
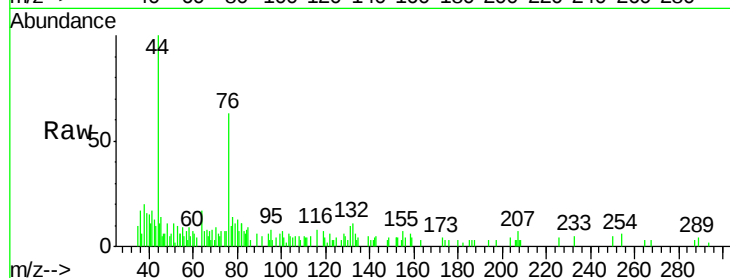
B98TB01-190207

Tot Ion: 76 Resp: 3024

Ion Ratio Lower Upper

76 100

78 12.8 7.1 10.7#



#18

Methyl Acetate

Concen: 0.791 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007461.D

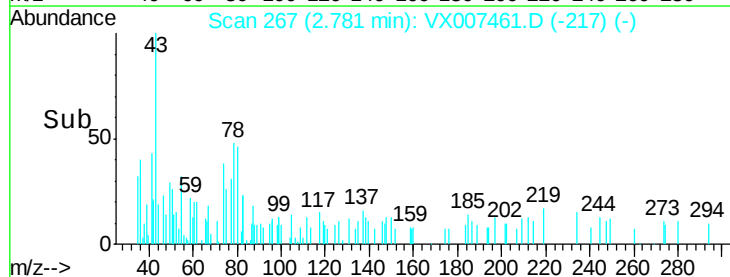
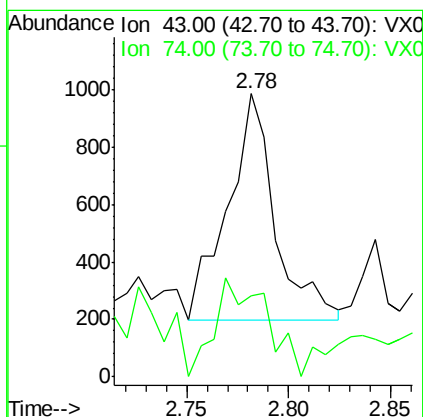
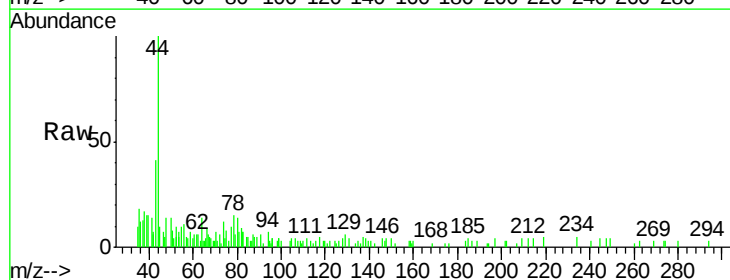
Acq: 11 Feb 2019 12:13

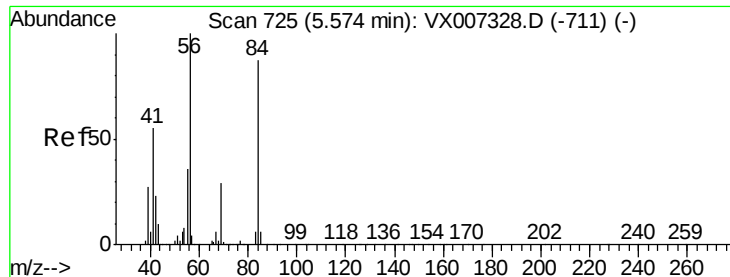
Tgt Ion: 43 Resp: 1278

Ion Ratio Lower Upper

43 100

74 47.1 19.4 29.2#





#31

Cyclohexane

Concen: 1.131 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

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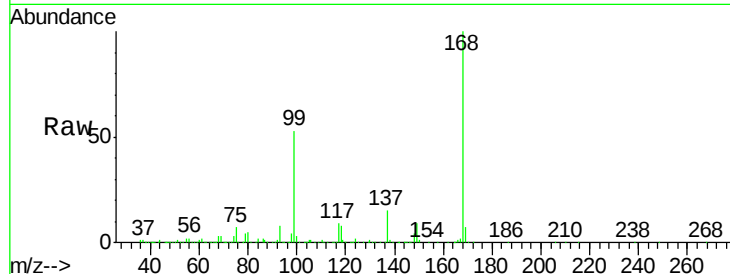
Tot Ion: 56 Resp: 8410

Ion Ratio Lower Upper

56 100

69 167.5 23.0 34.6#

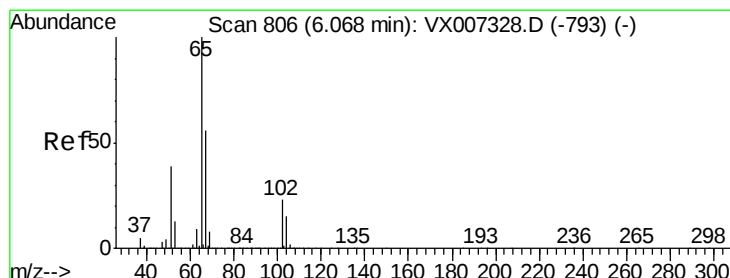
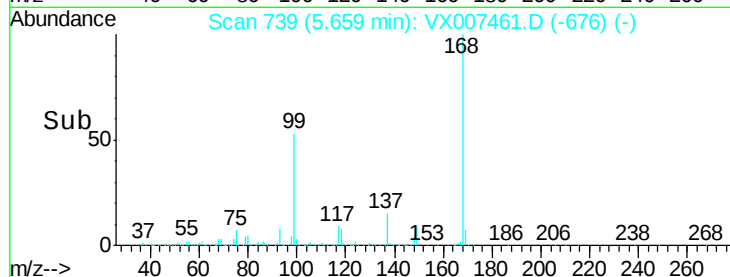
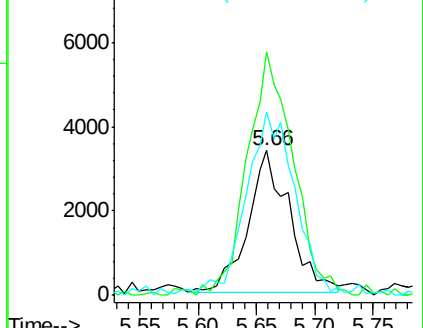
84 125.2 69.8 104.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.594 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007461.D

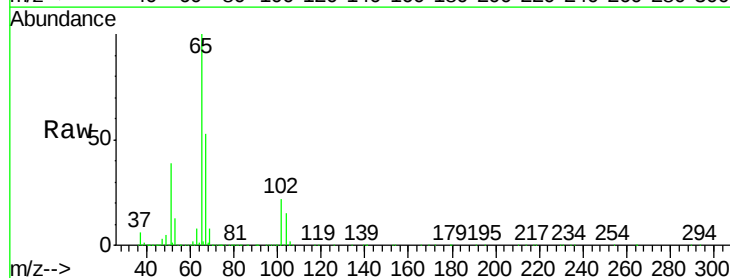
Acq: 11 Feb 2019 12:13

Tgt Ion: 65 Resp: 270477

Ion Ratio Lower Upper

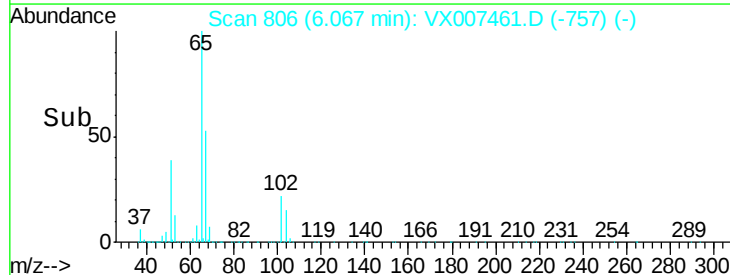
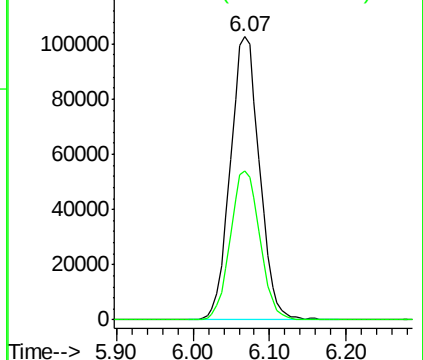
65 100

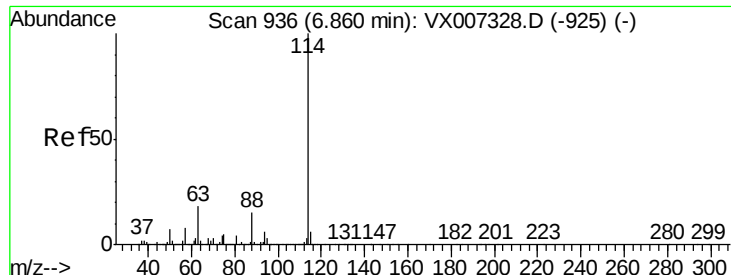
67 53.2 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

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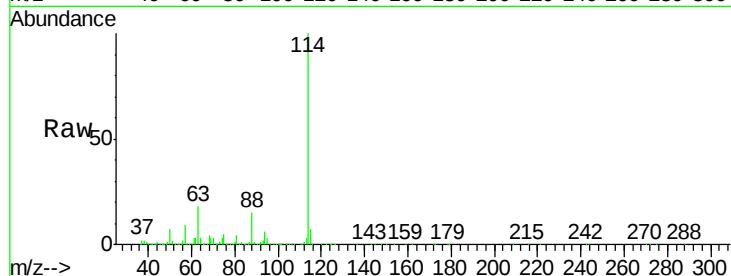
Tot Ion:114 Resp: 775214

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

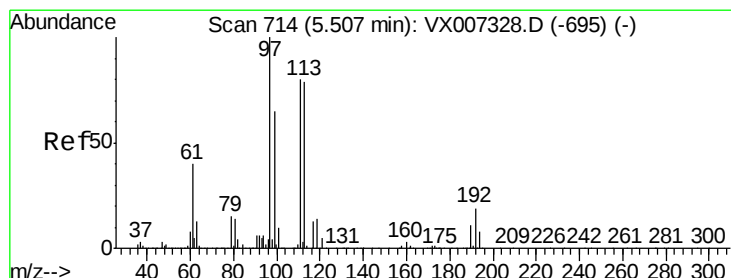
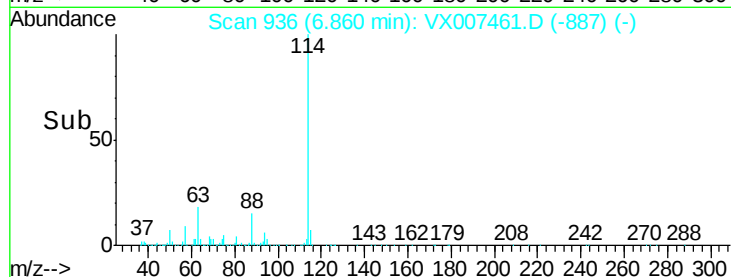
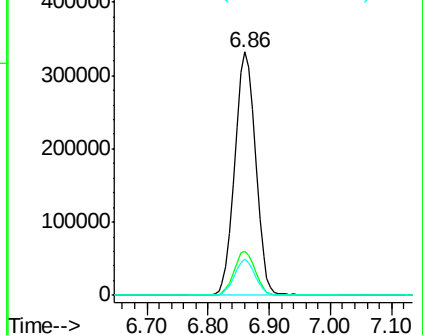
88 14.7 0.0 29.6



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: 49.727 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

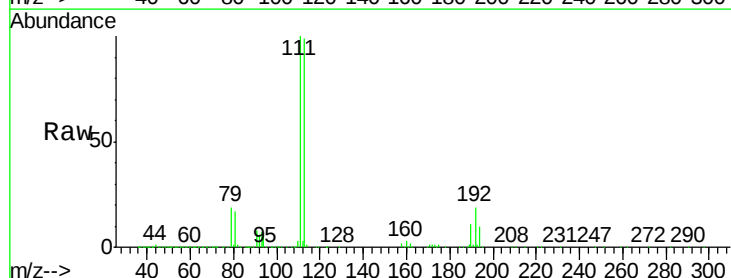
Tgt Ion:113 Resp: 250824

Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.8

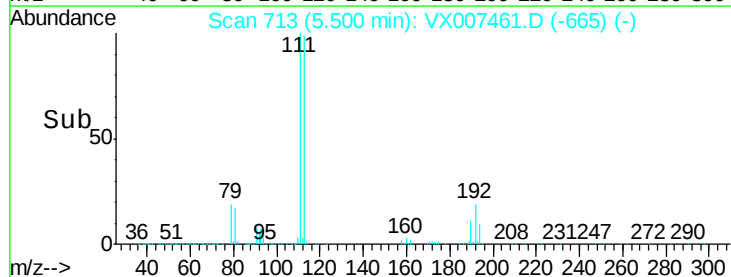
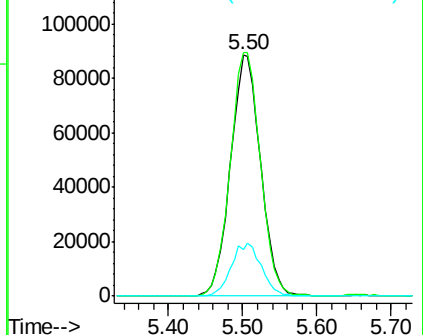
192 22.1 18.5 27.7

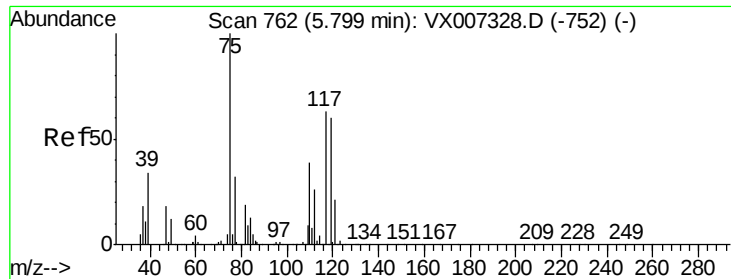


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.719 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

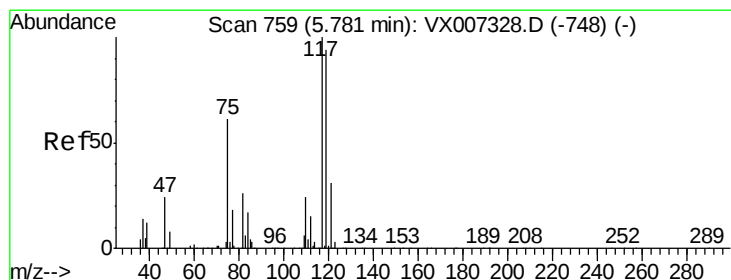
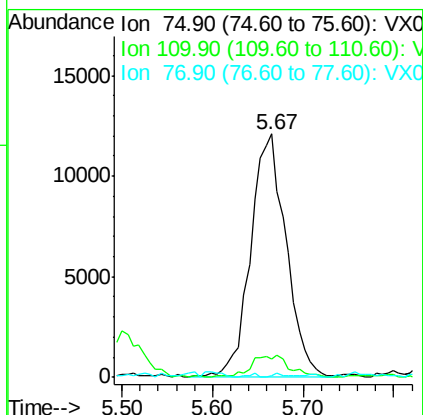
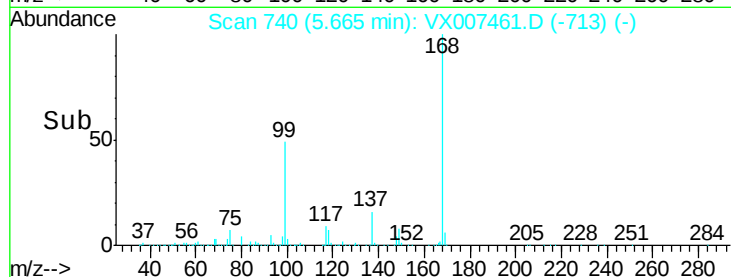
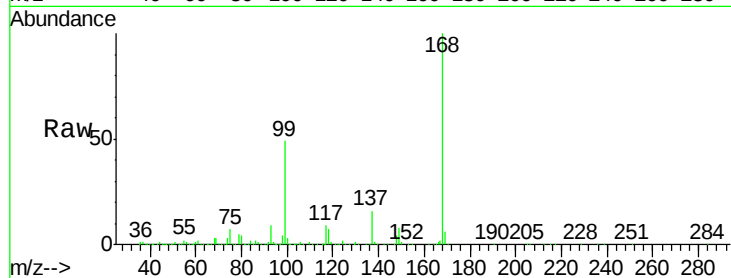
Tot Ion: 75 Resp: 32821

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

77 0.6 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.720 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

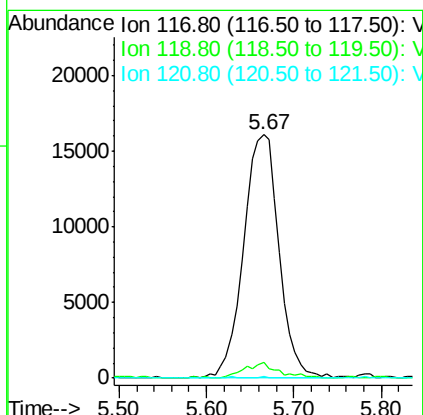
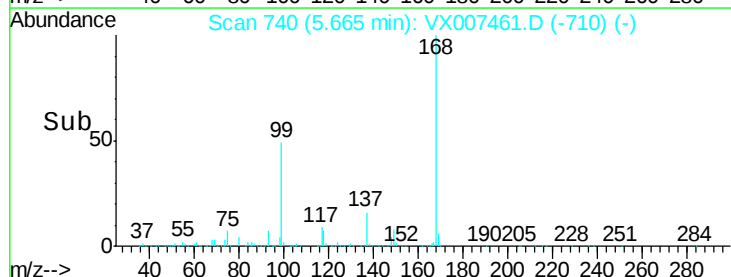
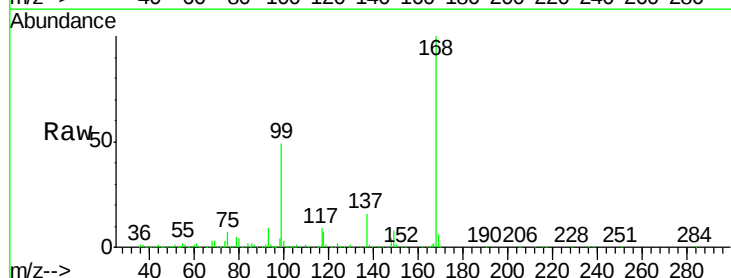
Tgt Ion: 117 Resp: 45345

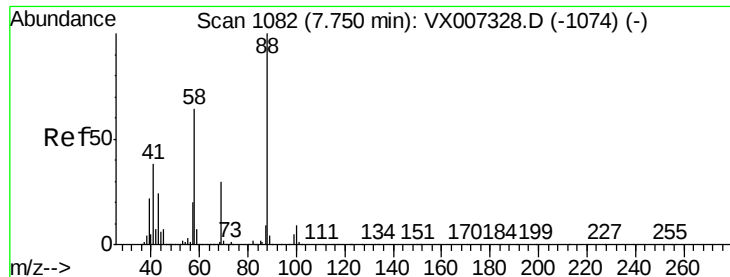
Ion Ratio Lower Upper

117 100

119 6.5 75.3 112.9#

121 0.5 25.0 37.4#





#49

1,4-Dioxane

Concen: 8.222 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

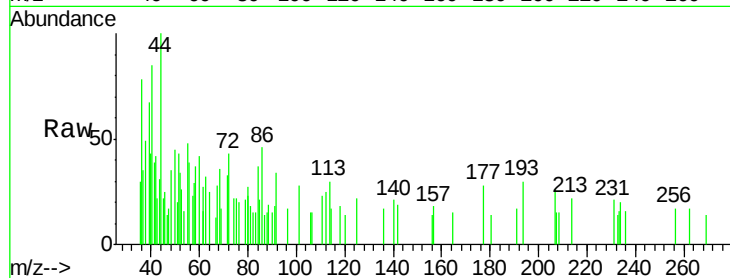
Tot Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 239.5 24.2 36.4#

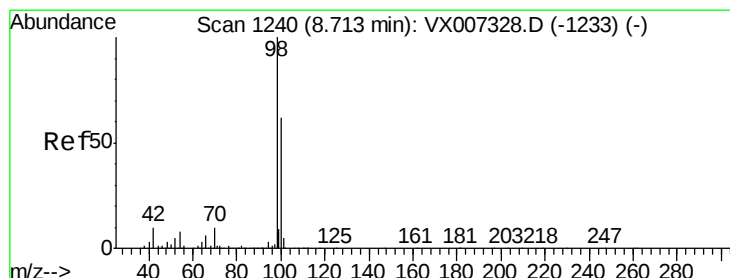
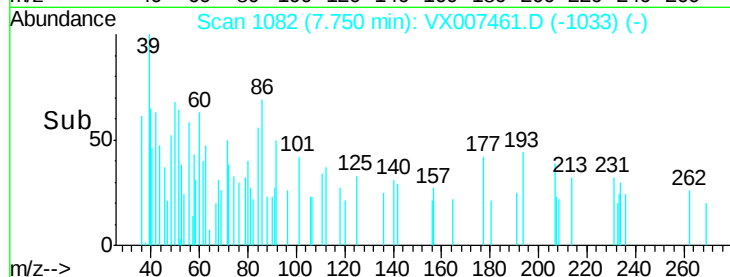
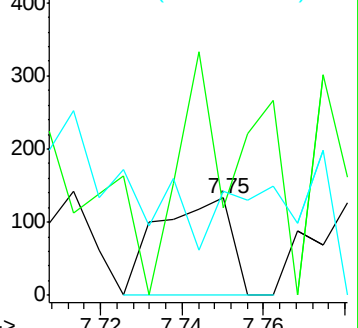
58 74.3 53.0 79.4



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: 49.954 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007461.D

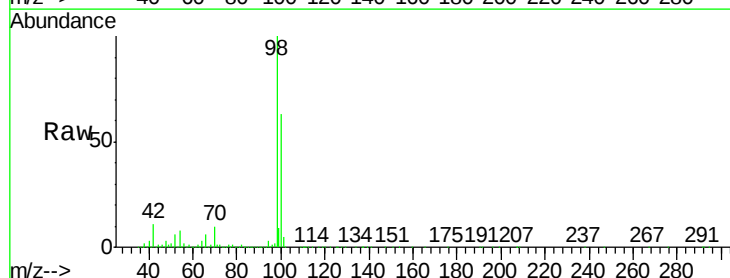
Acq: 11 Feb 2019 12:13

Tgt Ion: 98 Resp: 934860

Ion Ratio Lower Upper

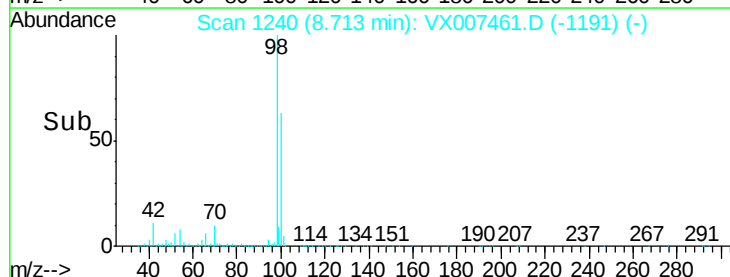
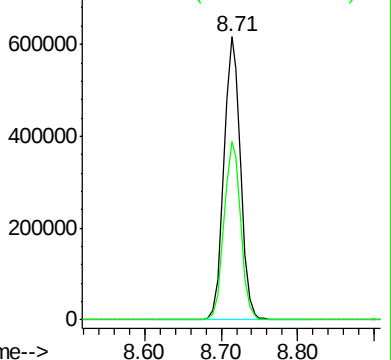
98 100

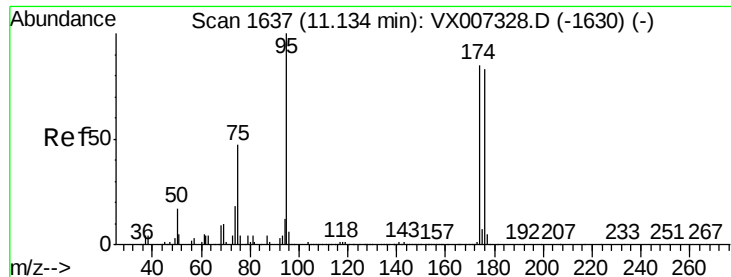
100 63.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.847 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

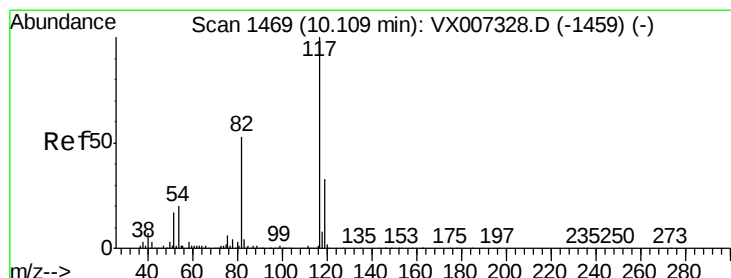
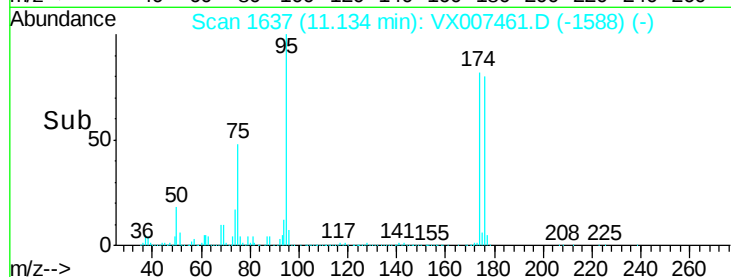
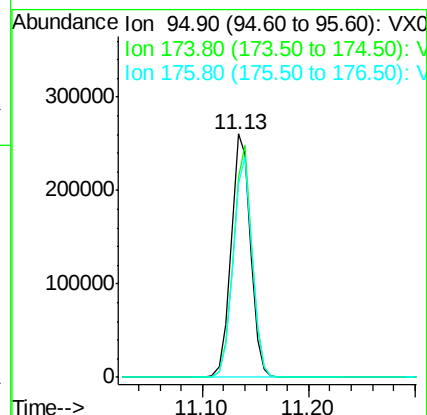
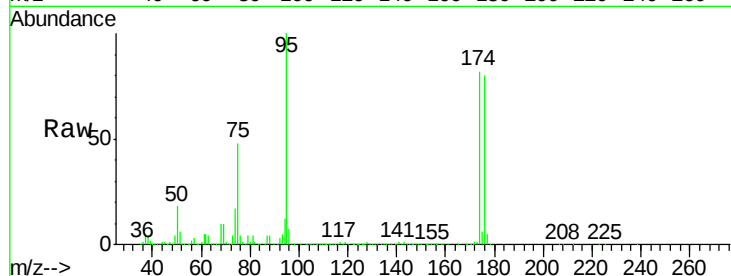
Tot Ion: 95 Resp: 333750

Ion Ratio Lower Upper

95 100

174 91.8 0.0 189.2

176 88.9 0.0 186.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

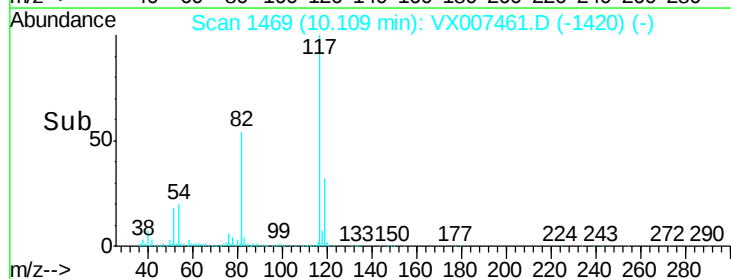
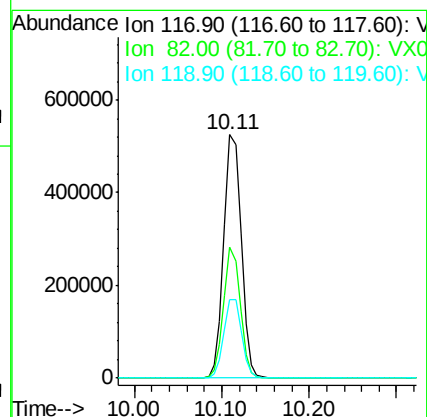
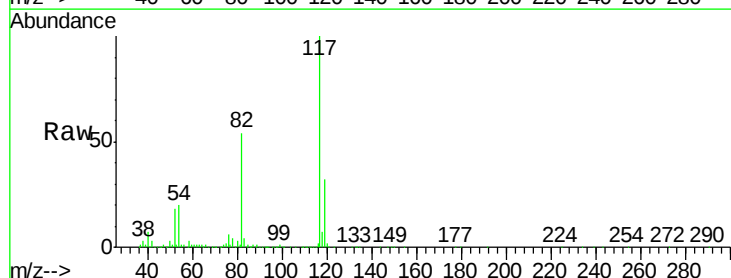
Tgt Ion: 117 Resp: 729038

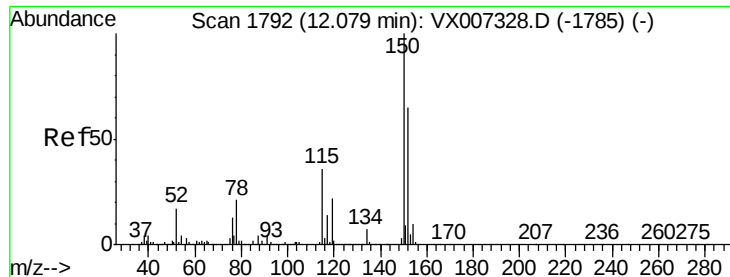
Ion Ratio Lower Upper

117 100

82 53.7 42.1 63.1

119 32.4 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

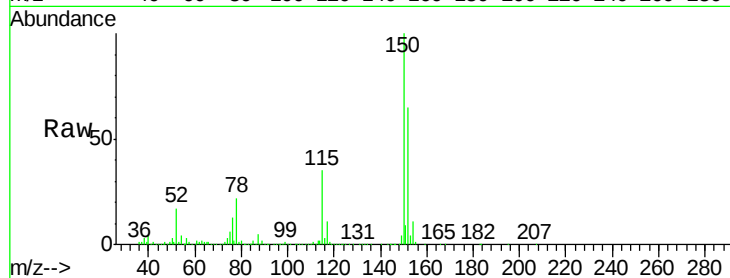
Tot Ion:152 Resp: 354920

Ion Ratio Lower Upper

152 100

115 54.9 38.0 114.0

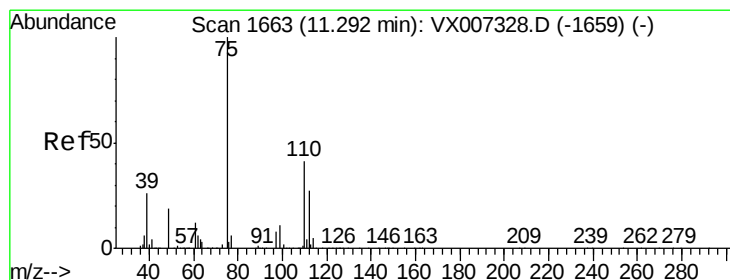
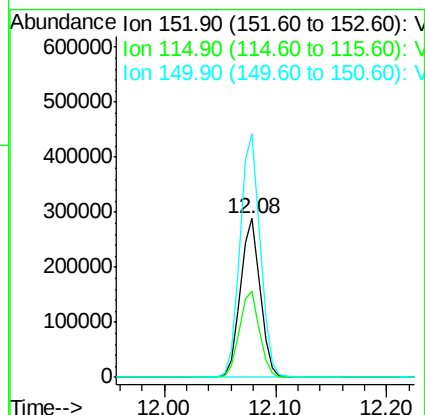
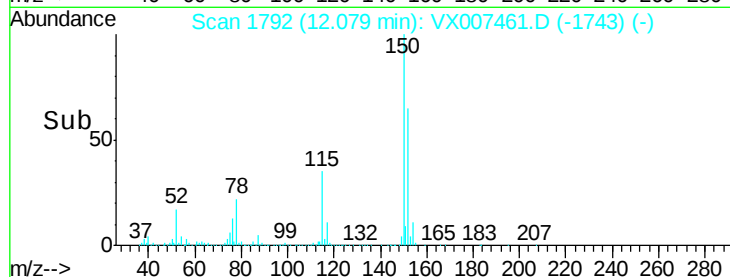
150 156.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.713 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007461.D

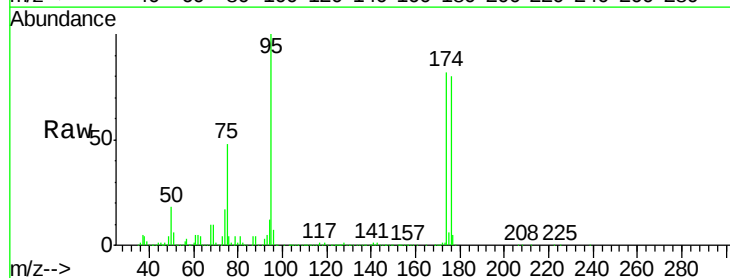
Acq: 11 Feb 2019 12:13

Tgt Ion: 75 Resp: 156804

Ion Ratio Lower Upper

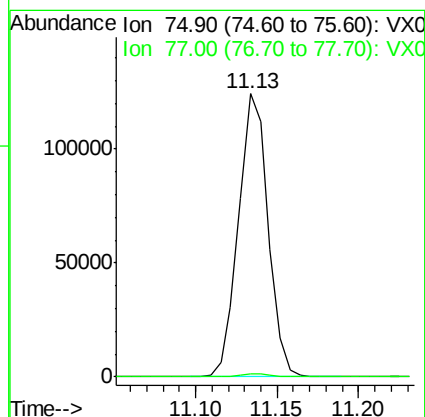
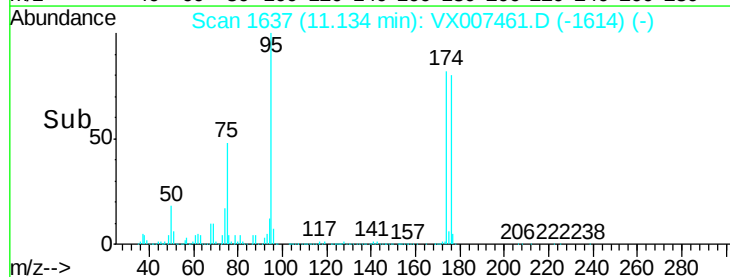
75 100

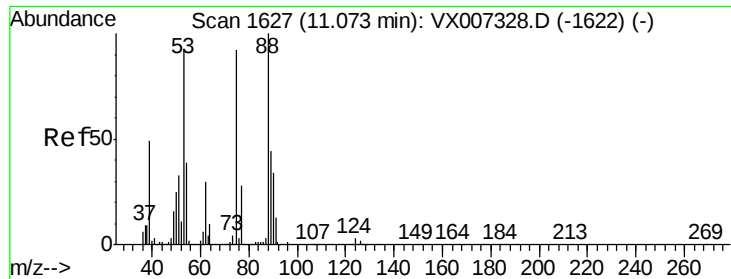
77 1.4 23.0 69.0#



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: 68.496 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007461.D

Acq: 11 Feb 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

B98TB01-190207

Tot Ion: 75 Resp: 156804

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#

