

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006694.D
 Acq On : 21 Dec 2018 00:14
 Operator : JC/MD
 Sample : J6518-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-121918-01

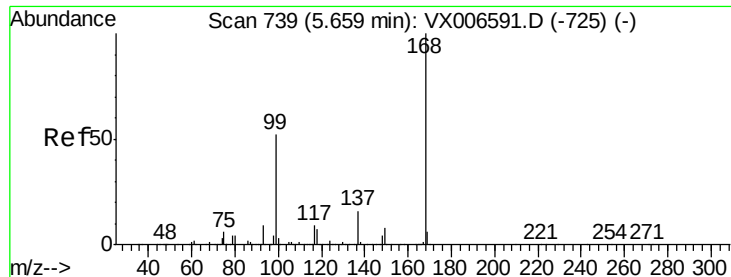
Quant Time: Dec 21 03:38:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	620026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	977710	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	892758	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	425606	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	338486	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	5.51	113	295650	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	8.71	98	1159894	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.13	95	411781	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	1306	0.214	ug/l #	79
5) Bromomethane	1.65	94	2888	Below Cal		93
11) Tert butyl alcohol	3.02	59	22233	14.908	ug/l #	81
13) Acrolein	2.29	56	423	0.420	ug/l #	69
16) Acetone	2.45	43	6689	2.179	ug/l	93
20) Methylene Chloride	2.86	84	1440	0.227	ug/l #	65
28) Bromochloromethane	5.01	49	146	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	39850	4.921	ug/l #	49
38) Carbon Tetrachloride	5.67	117	60855	7.733	ug/l #	14
49) 1,4-Dioxane	7.75	88	97	Below Cal	#	1
60) Dibromochloromethane	9.55	129	127	2.342	ug/l	57
71) Bromoform	10.95	173	110	4.479	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	191742	24.242	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	191742	71.762	ug/l #	10
90) Hexachloroethane	12.66	117	46	3.304	ug/l	92

(#) = 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

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

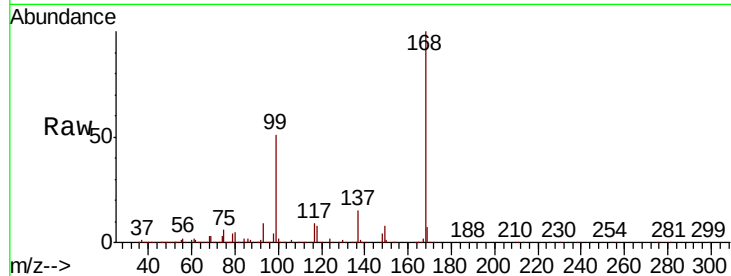
FB-121918-01

Tot Ion:168 Resp: 620026

Ion Ratio Lower Upper

168 100

99 51.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

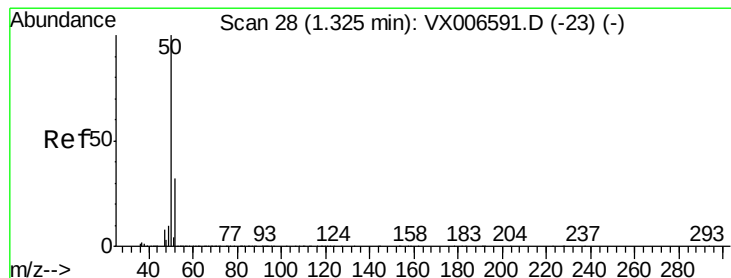
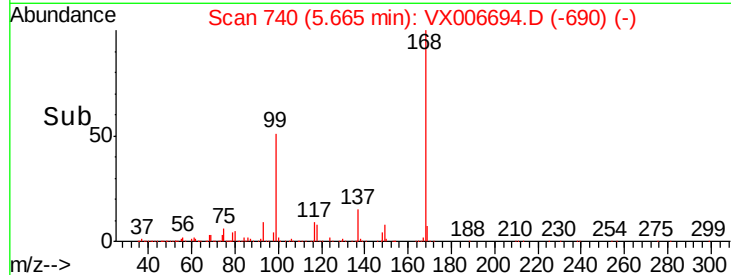
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX006694.D

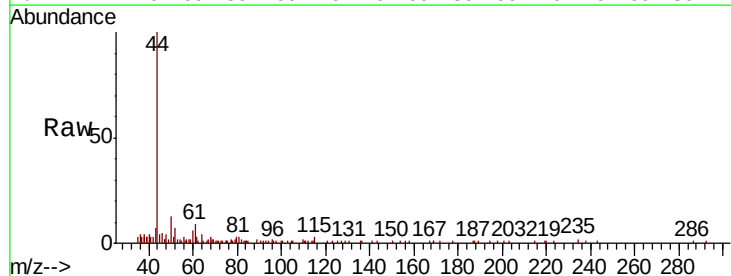
Acq: 21 Dec 2018 00:14

Tgt Ion: 50 Resp: 1306

Ion Ratio Lower Upper

50 100

52 43.4 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

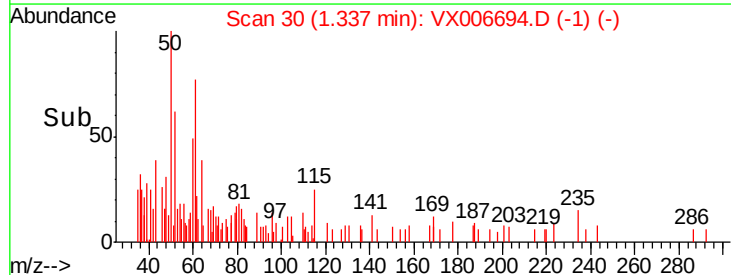
400

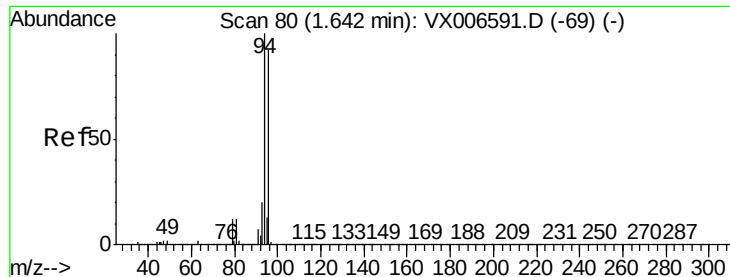
200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

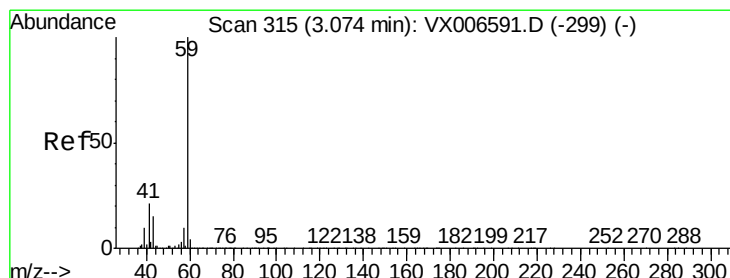
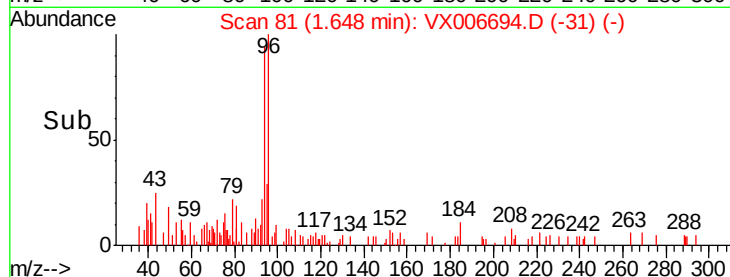
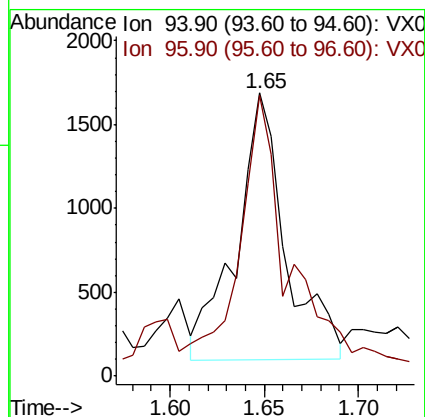
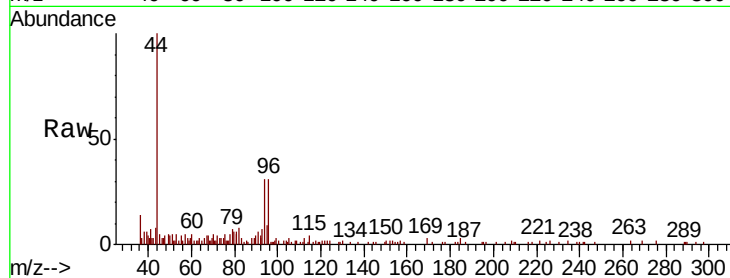
FB-121918-01

Tot Ion: 94 Resp: 2888

Ion Ratio Lower Upper

94 100

96 98.9 73.4 110.2



#11

Tert butyl alcohol

Concen: 14.908 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX006694.D

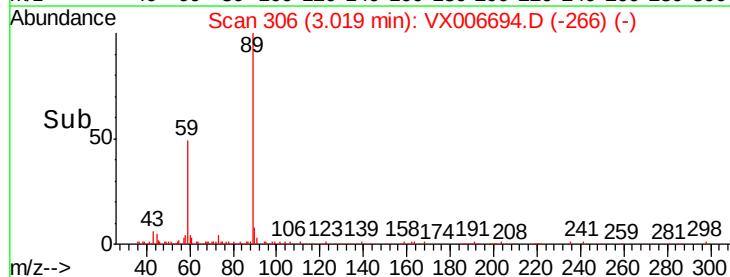
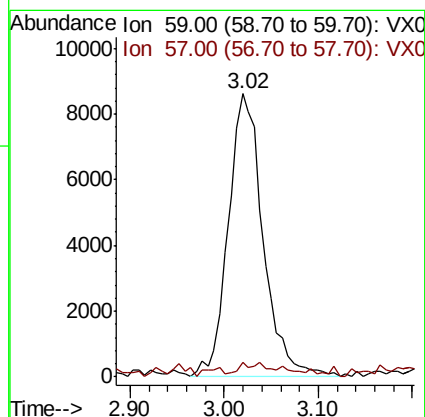
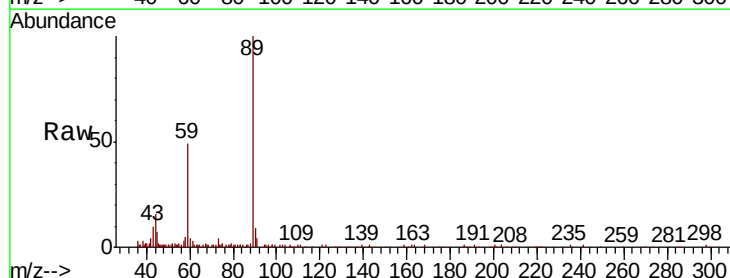
Acq: 21 Dec 2018 00:14

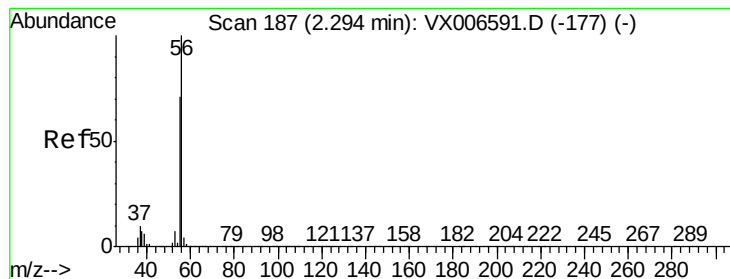
Tgt Ion: 59 Resp: 22233

Ion Ratio Lower Upper

59 100

57 3.6 8.5 12.7#





#13

Acrolein

Concen: 0.420 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampled :

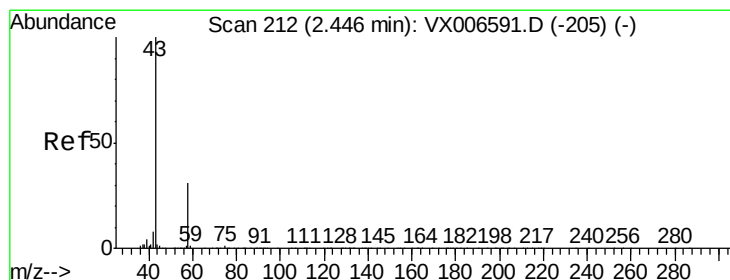
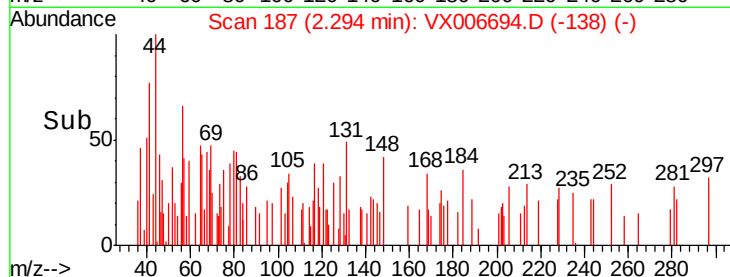
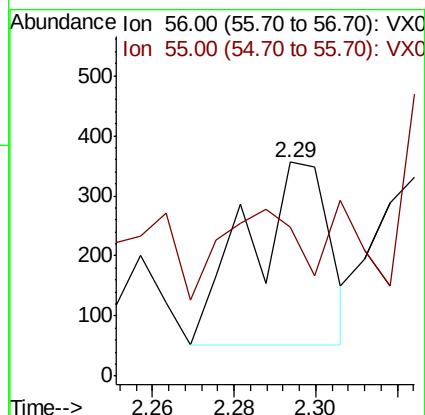
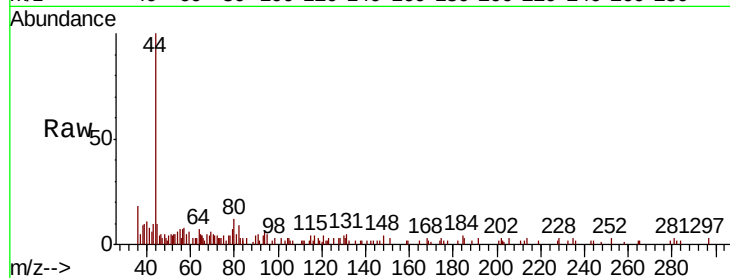
FB-121918-01

Tot Ion: 56 Resp: 423

Ion Ratio Lower Upper

56 100

55 46.6 58.2 87.4#



#16

Acetone

Concen: 2.179 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006694.D

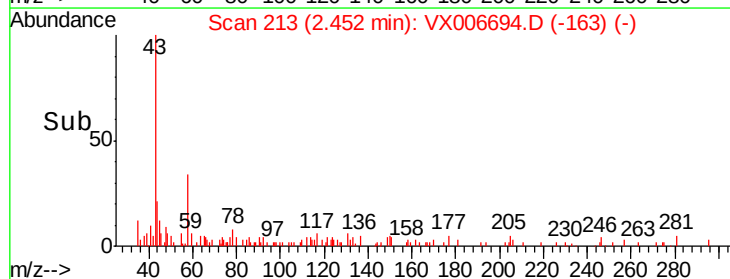
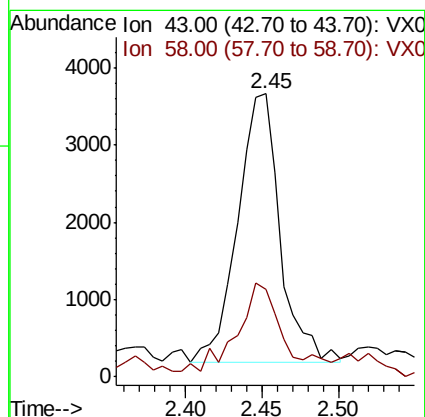
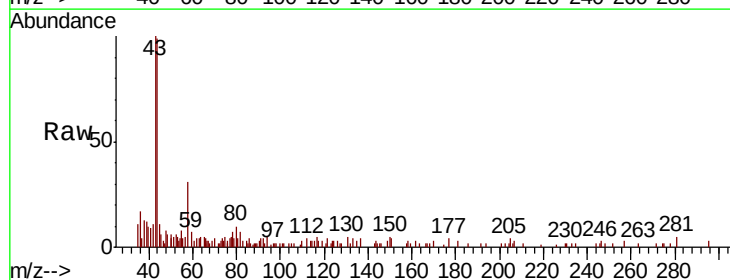
Acq: 21 Dec 2018 00:14

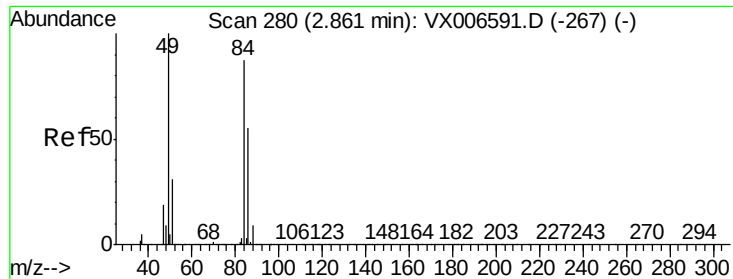
Tgt Ion: 43 Resp: 6689

Ion Ratio Lower Upper

43 100

58 27.5 25.0 37.6

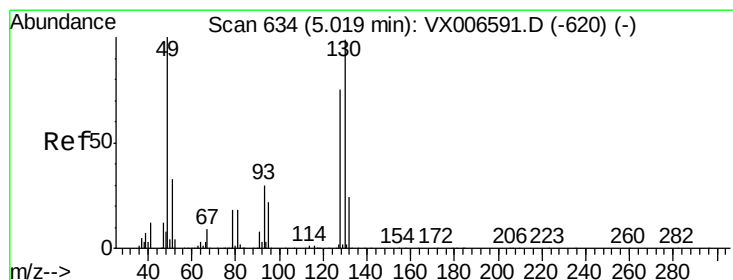
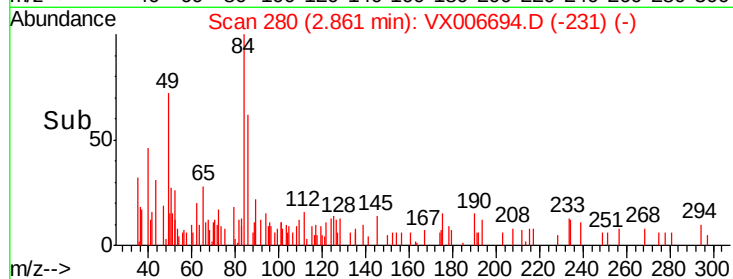
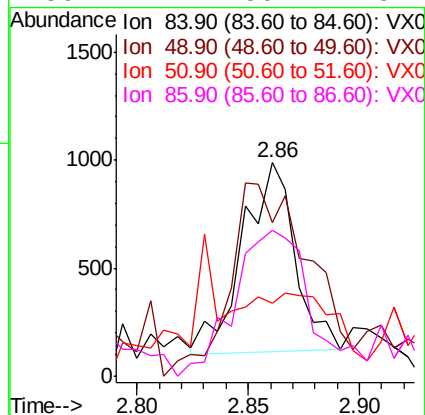
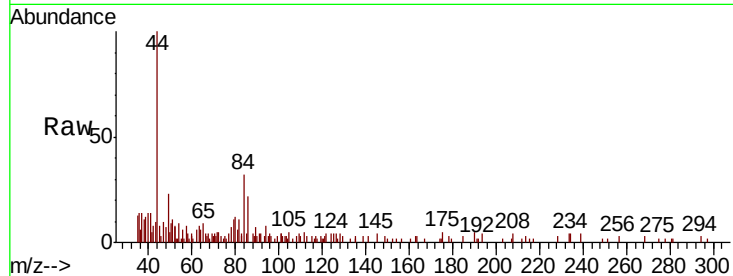




#20
Methylene Chloride
Concen: 0.227 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006694.D
Acq: 21 Dec 2018 00:14

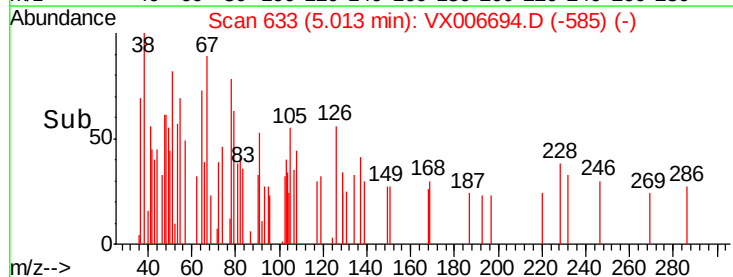
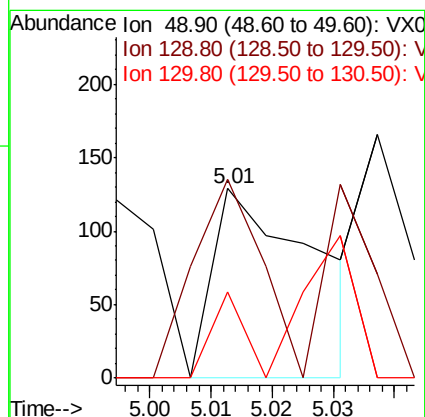
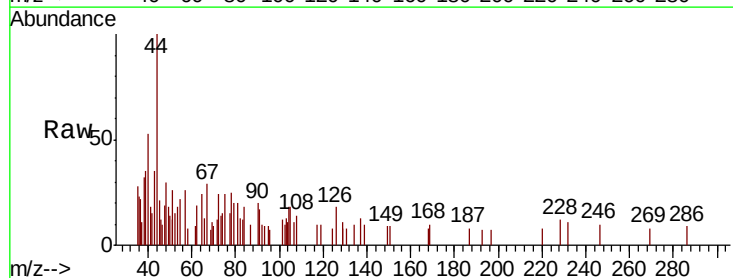
Instrument :
MSVOA_X
ClientSampled :
FB-121918-01

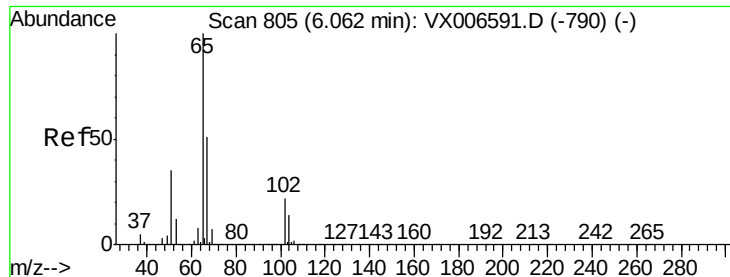
Tot Ion:	84	Resp:	1440
Ion	Ratio	Lower	Upper
84	100		
49	58.1	91.8	137.6#
51	23.5	28.5	42.7#
86	71.1	50.2	75.2



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX006694.D
Acq: 21 Dec 2018 00:14

Tgt Ion:	49	Resp:	146
Ion	Ratio	Lower	Upper
49	100		
129	71.9	0.0	5.4#
130	0.0	77.7	116.5#





#33

1,2-Dichloroethane-d4

Concen: 50.654 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

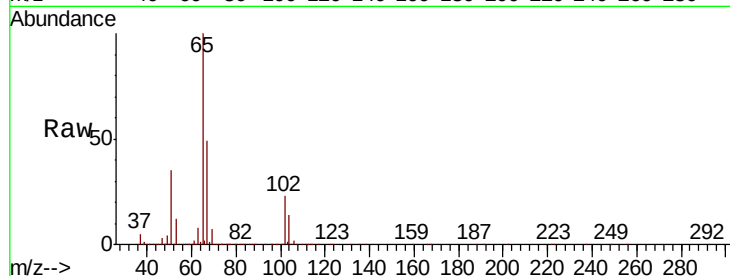
FB-121918-01

Tot Ion: 65 Resp: 338486

Ion Ratio Lower Upper

65 100

67 52.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

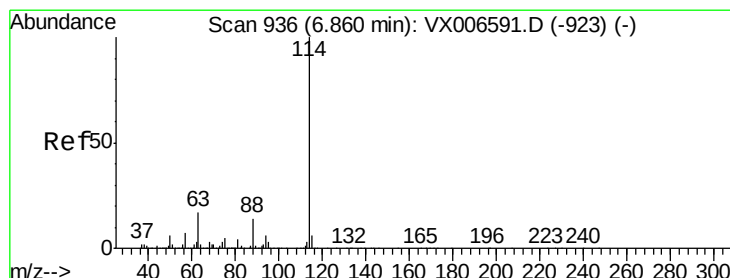
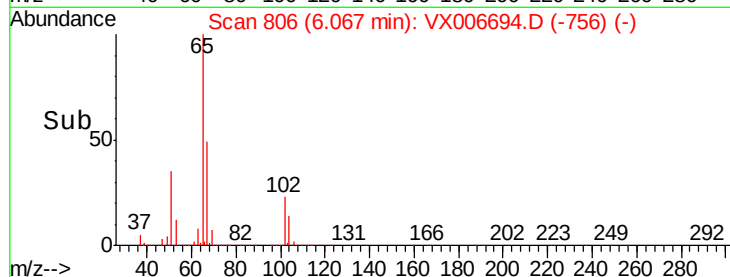
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

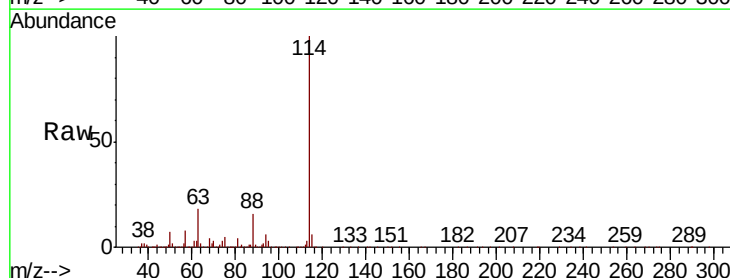
Tgt Ion: 114 Resp: 977710

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

88 15.6 0.0 28.8



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

6.86

500000

400000

300000

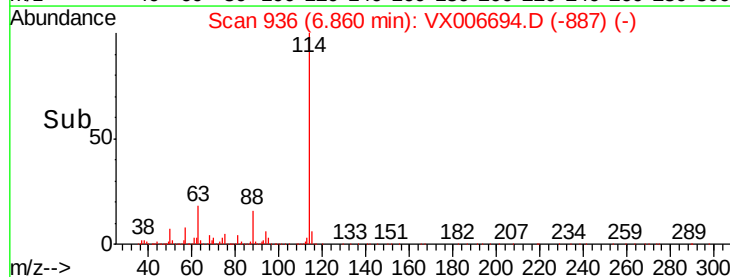
200000

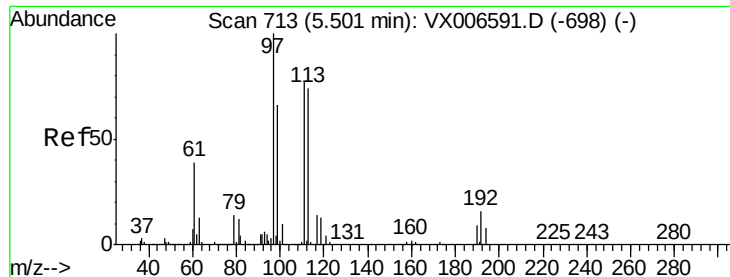
100000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 47.818 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampled :

FB-121918-01

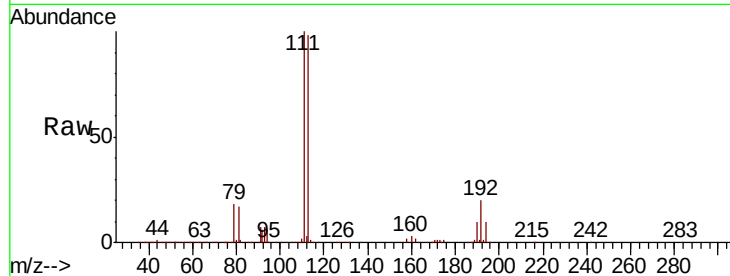
Tot Ion:113 Resp: 295650

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

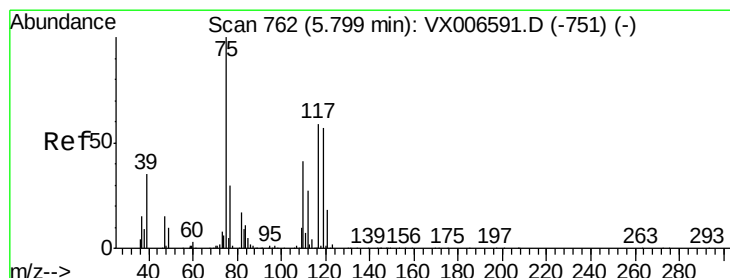
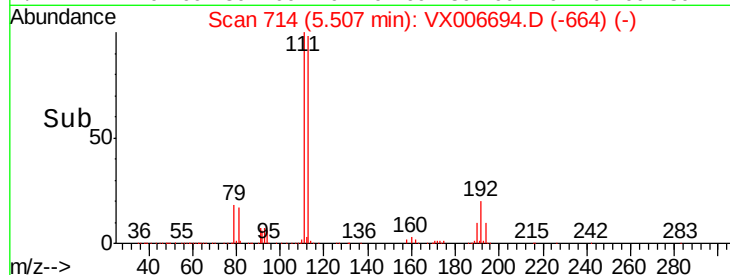
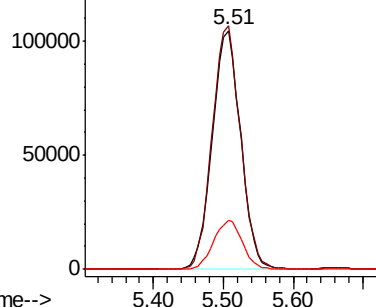
192 20.8 16.7 25.1



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: 4.921 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

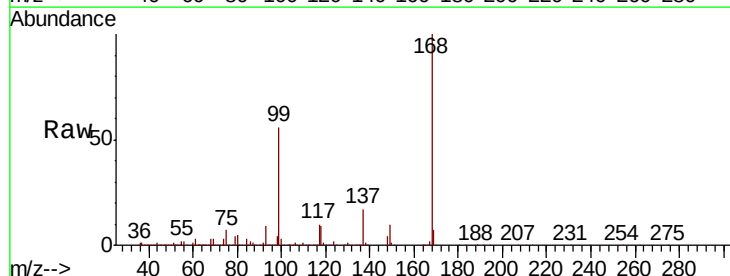
Tgt Ion: 75 Resp: 39850

Ion Ratio Lower Upper

75 100

110 10.8 20.2 60.5#

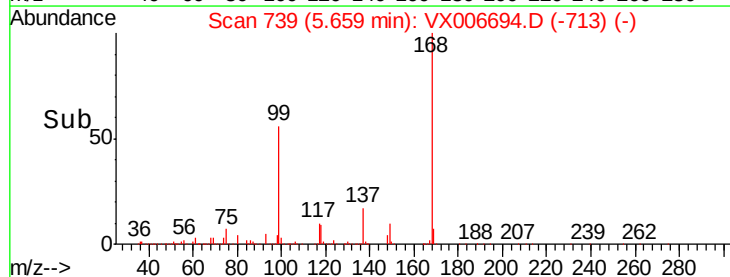
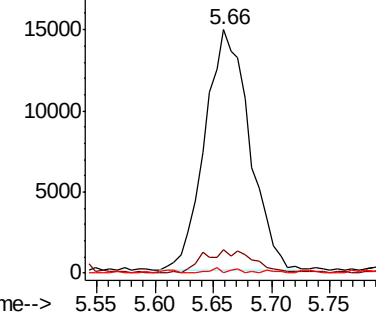
77 0.5 24.8 37.2#

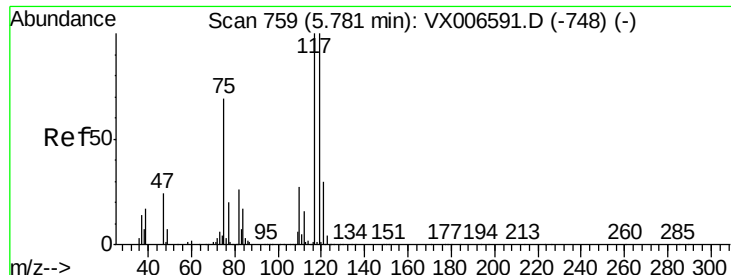


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.733 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampled :

FB-121918-01

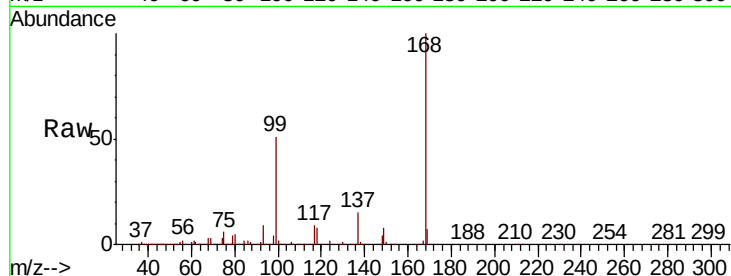
Tot Ion:117 Resp: 60855

Ion Ratio Lower Upper

117 100

119 4.2 79.4 119.2#

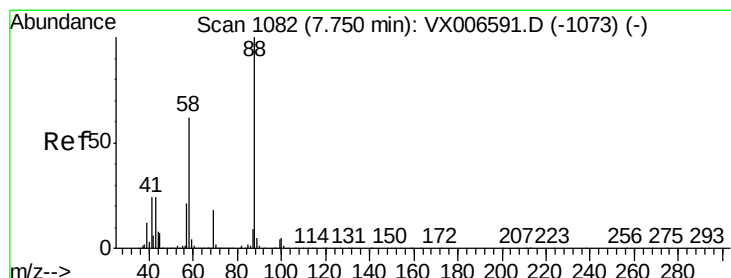
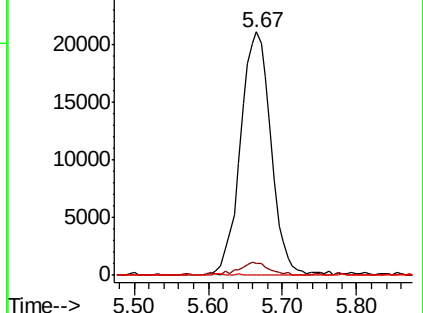
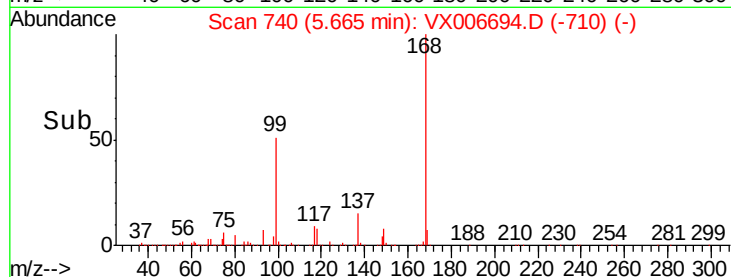
121 0.0 24.0 36.0#



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: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

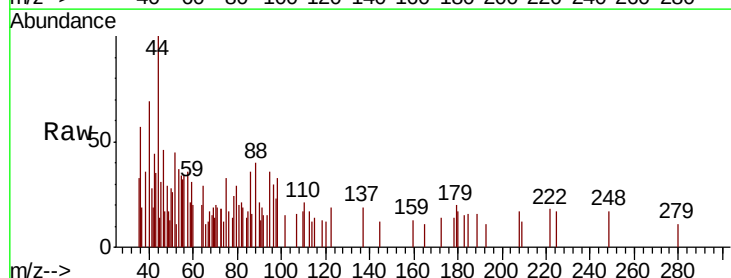
Tgt Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 346.4 22.2 33.4#

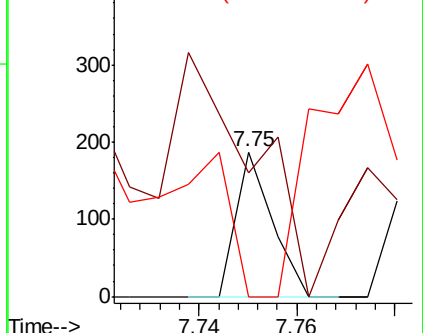
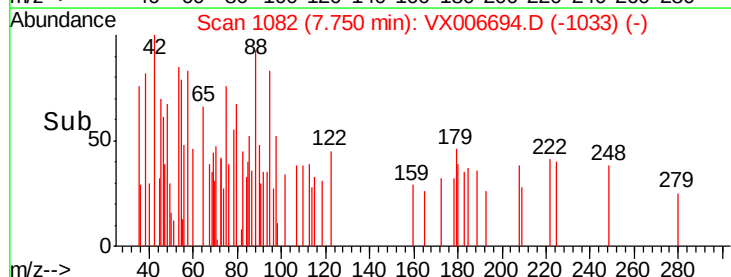
58 0.0 51.0 76.4#

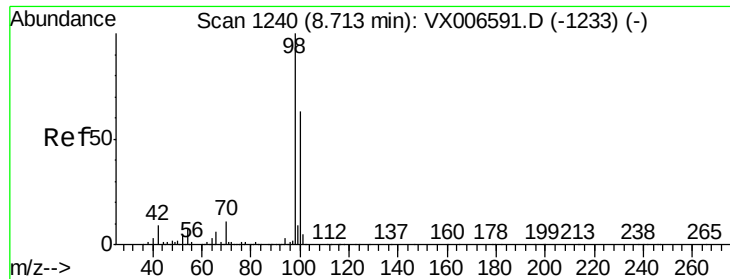


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.760 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

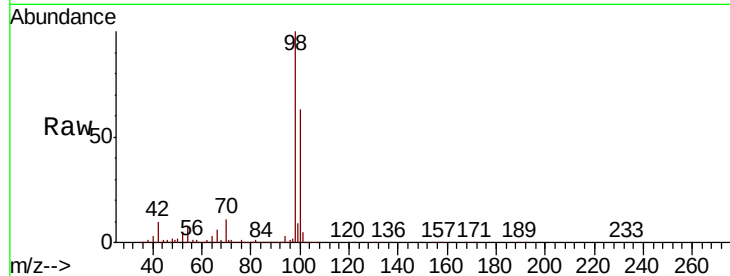
FB-121918-01

Tot Ion: 98 Resp: 1159894

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

800000

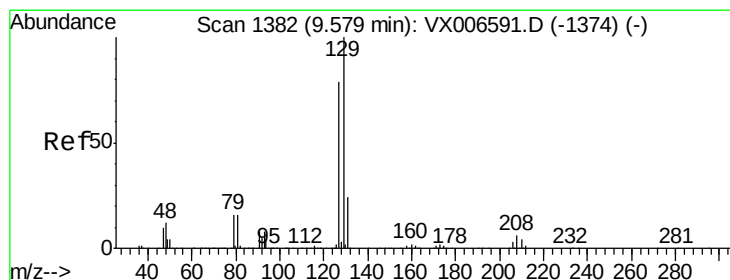
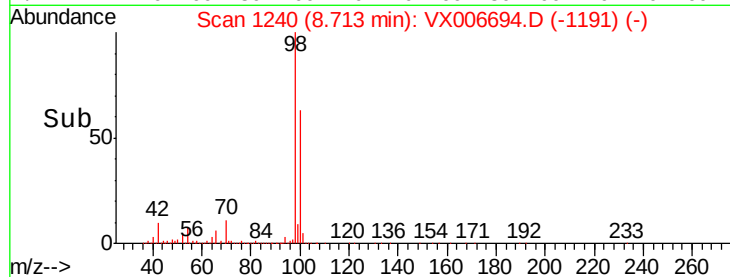
600000

400000

200000

0

Time--> 8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 2.342 ug/l

RT: 9.55 min Scan# 1378

Delta R.T. -0.02 min

Lab File: VX006694.D

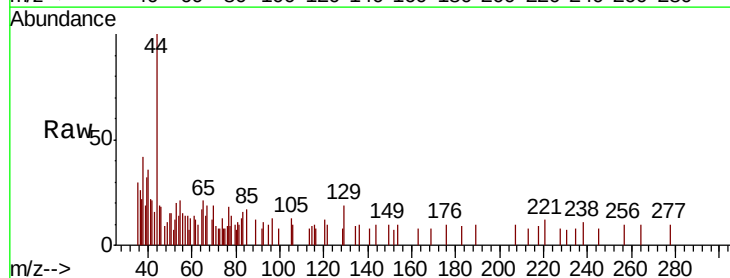
Acq: 21 Dec 2018 00:14

Tgt Ion: 129 Resp: 127

Ion Ratio Lower Upper

129 100

127 40.9 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.55

200

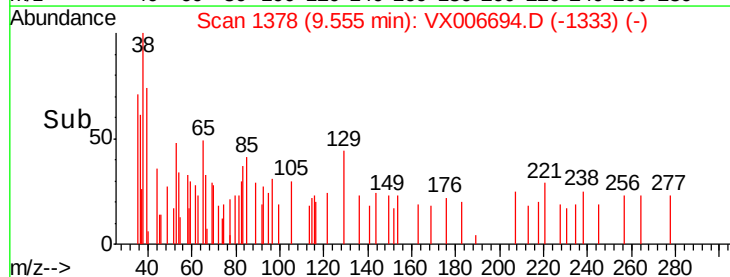
150

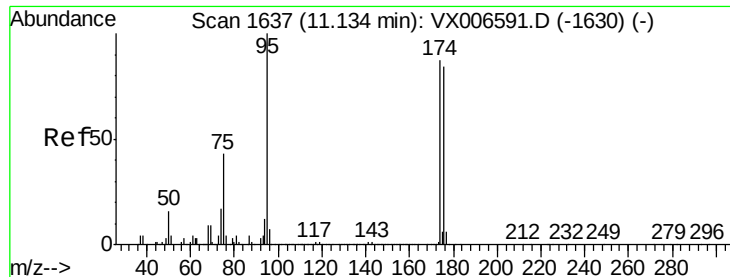
100

50

0

Time--> 9.54 9.56 9.58





#62

4-Bromofluorobenzene

Concen: 48.235 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

FB-121918-01

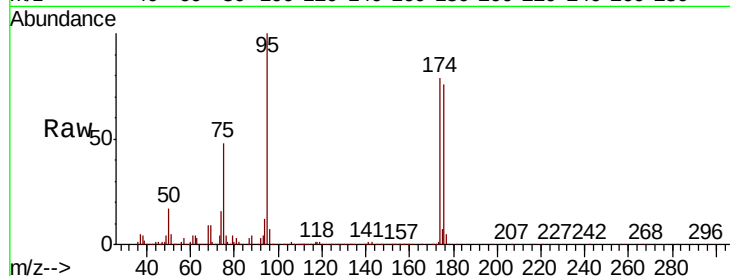
Tot Ion: 95 Resp: 411781

Ion Ratio Lower Upper

95 100

174 86.4 0.0 182.2

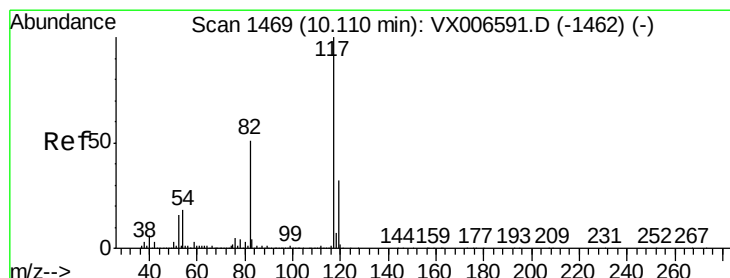
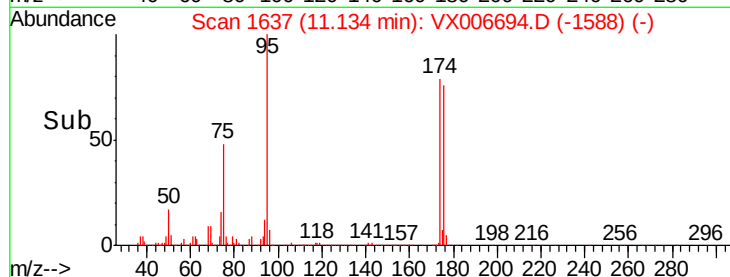
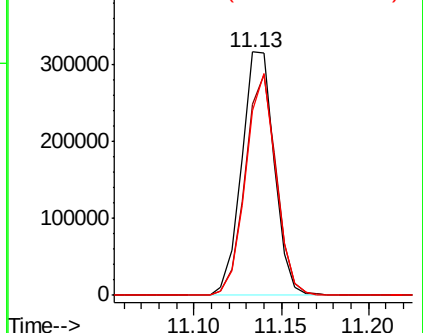
176 84.7 0.0 178.8



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

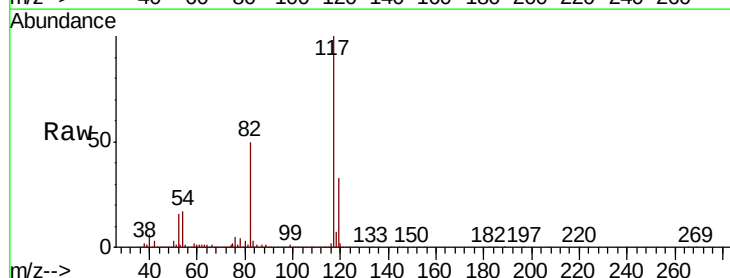
Tgt Ion: 117 Resp: 892758

Ion Ratio Lower Upper

117 100

82 49.6 41.0 61.6

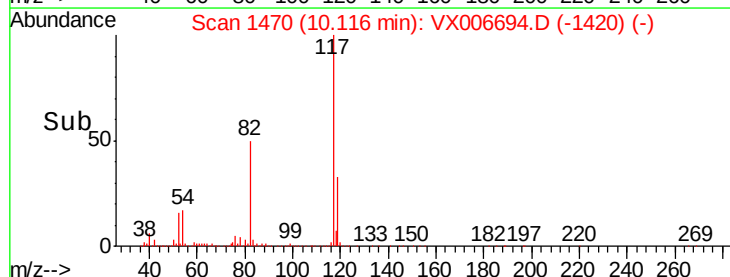
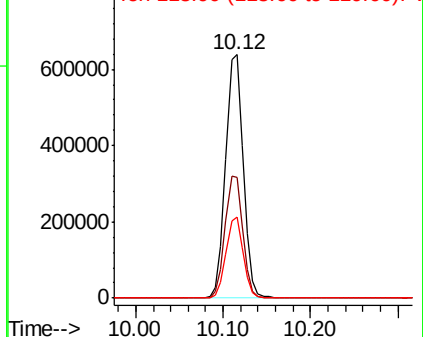
119 33.1 25.4 38.0

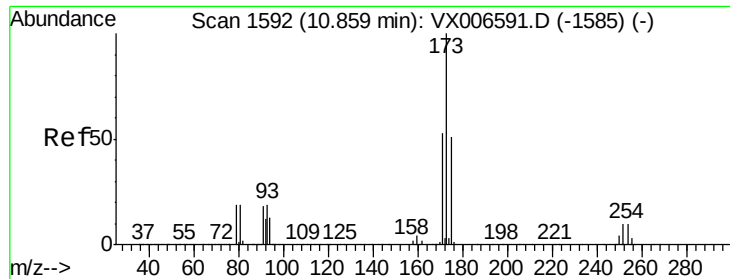


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 4.479 ug/l

RT: 10.95 min Scan# 1607

Delta R.T. 0.09 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

FB-121918-01

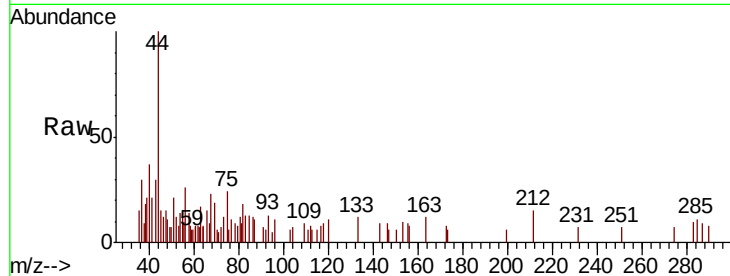
Tot Ion:173 Resp: 110

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

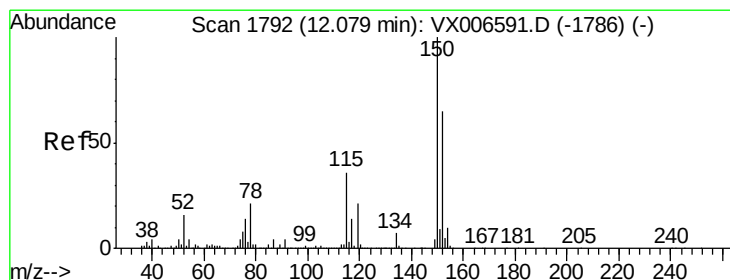
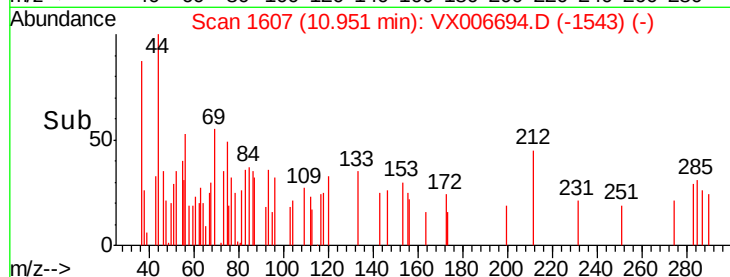
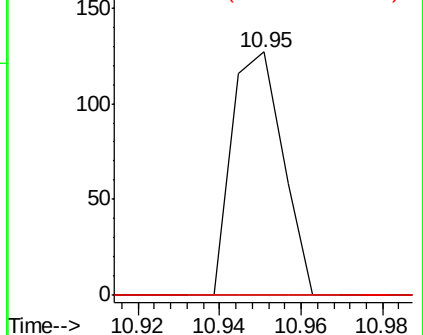
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

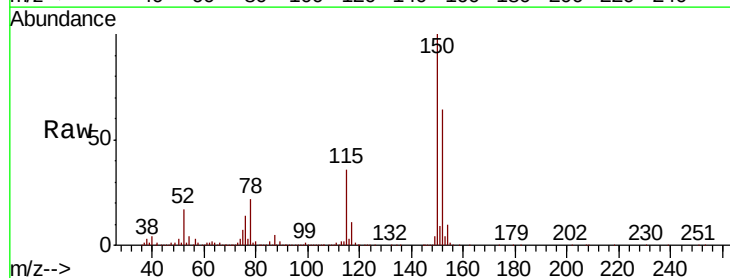
Tgt Ion:152 Resp: 425606

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.2

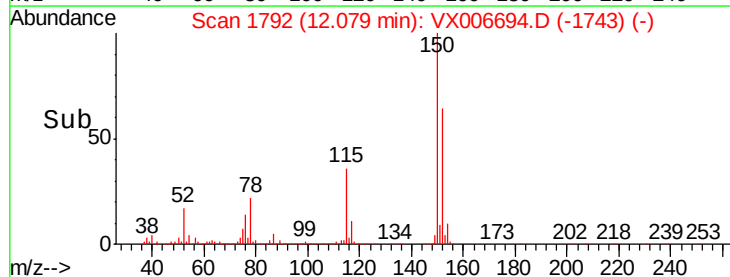
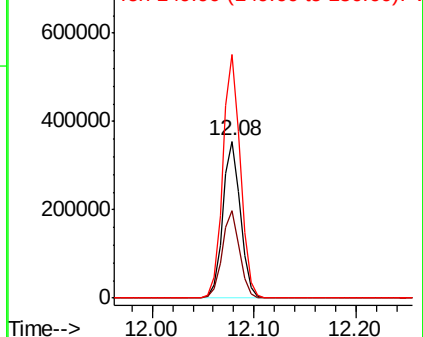
150 155.0 0.0 344.8

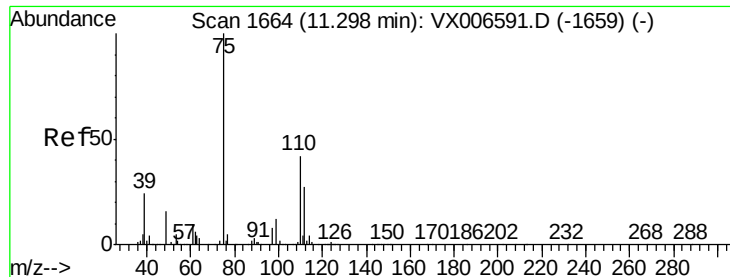


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.242 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

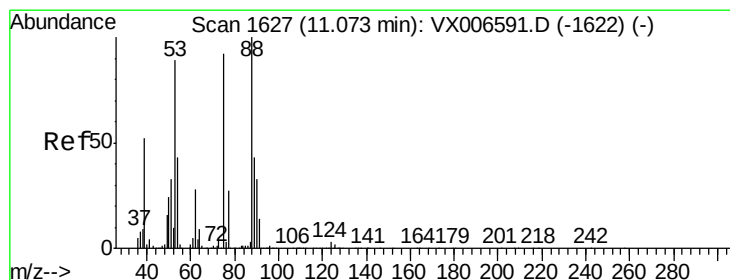
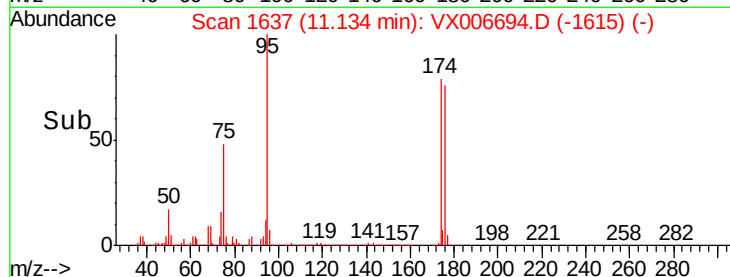
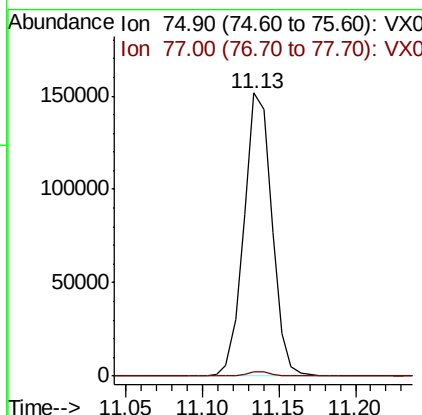
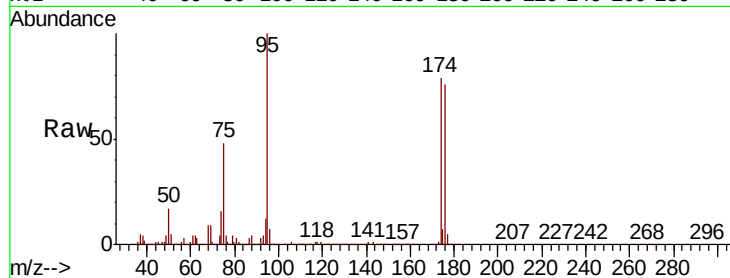
FB-121918-01

Tot Ion: 75 Resp: 191742

Ion Ratio Lower Upper

75 100

77 1.7 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.762 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

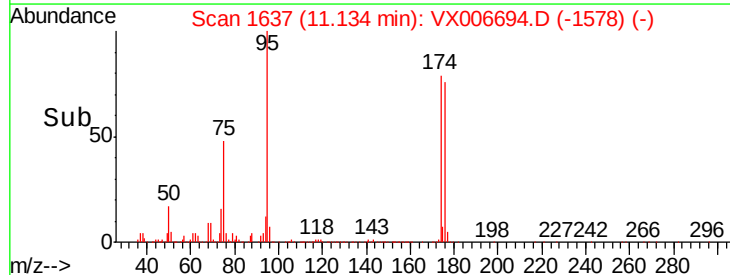
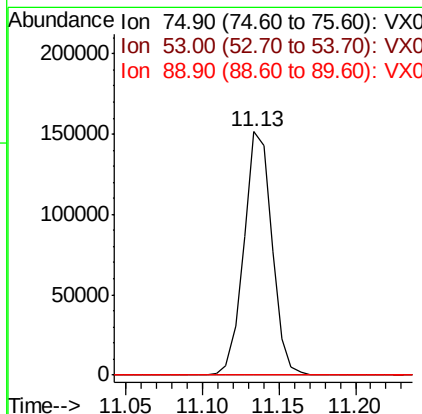
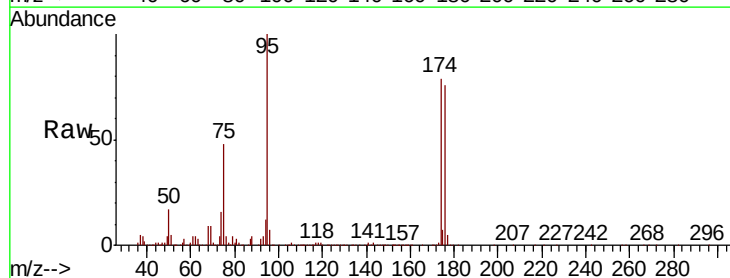
Tgt Ion: 75 Resp: 191742

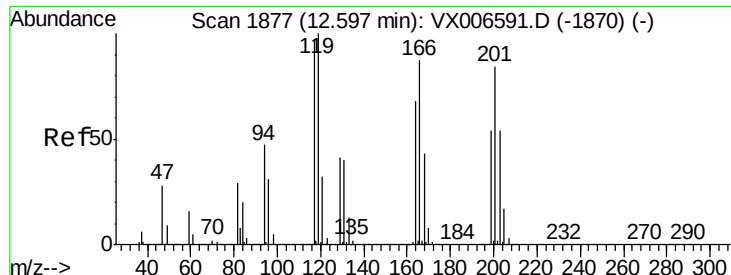
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.304 ug/l

RT: 12.66 min Scan# 1887

Delta R.T. 0.06 min

Lab File: VX006694.D

Acq: 21 Dec 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

FB-121918-01

Tot Ion:117 Resp: 46

Ion Ratio Lower Upper

117 100

201 93.5 42.9 128.7

