

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060772.D
 Acq On : 16 Nov 2018 18:52
 Operator : VA/AP
 Sample : J5762-05RE
 Misc : 4.95µ/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-111518RE

Quant Time: Nov 17 04:24:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.89
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.62
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.79
72) 1,4-Dichlorobenzene-d4	12.41	152	362	50.00	ug/l	-0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.74	65	59	0.00	ug/l	-0.12
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
62) 4-Bromofluorobenzene	11.41	95	143	0.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	0.00%		

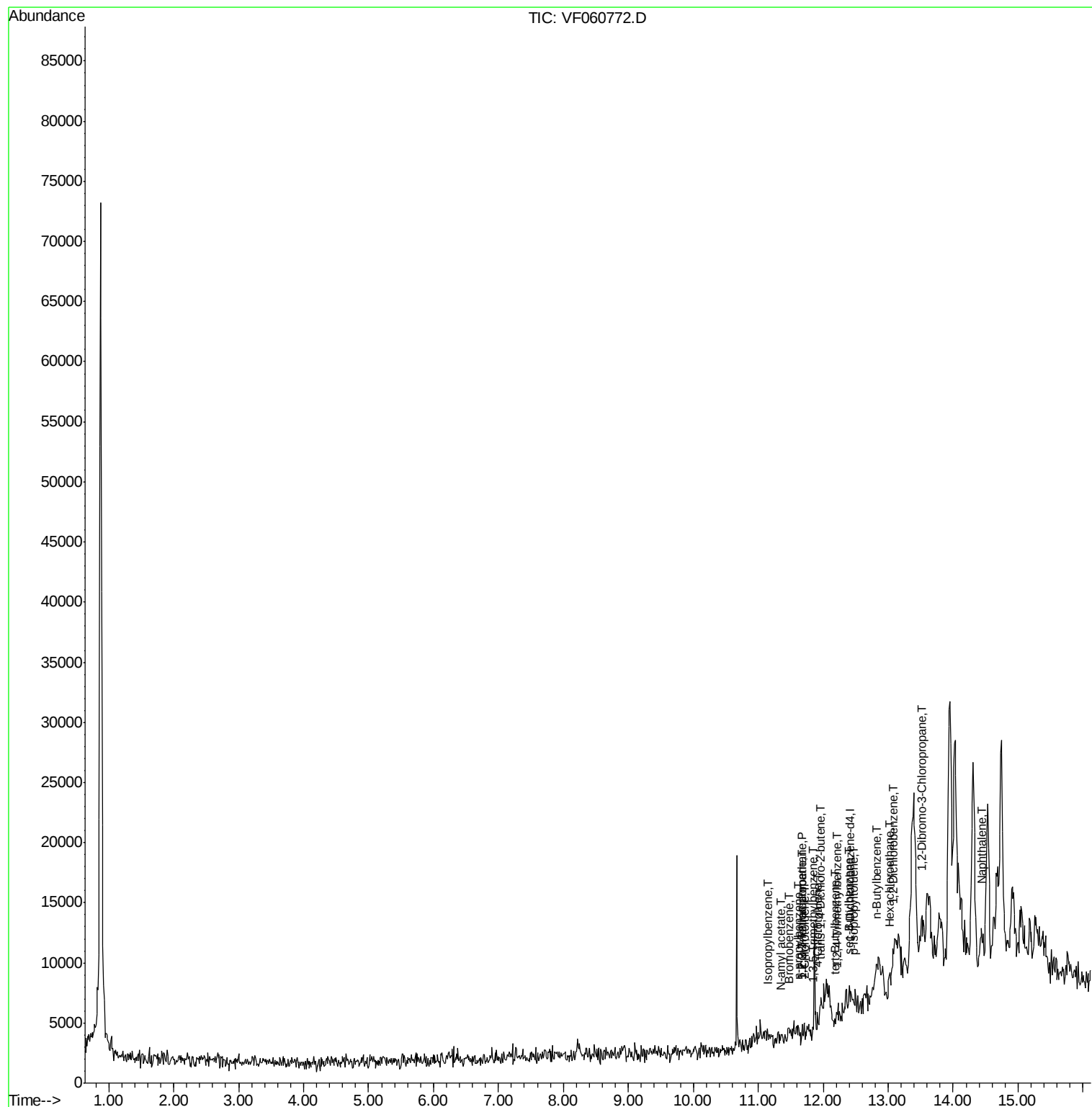
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
73) Isopropylbenzene	11.14	105	69	2.368	ug/l #	48
74) N-amyl acetate	11.35	43	766	115.477	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	11.68	83	63	13.077	ug/l #	25
76) 1,2,3-Trichloropropane	11.68	75	72	20.124	ug/l #	41
77) Bromobenzene	11.46	156	63	10.387	ug/l #	38
78) n-propylbenzene	11.63	91	285	8.386	ug/l #	53
79) 2-Chlorotoluene	11.72	91	204	10.328	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.83	105	242	10.461	ug/l #	27
81) trans-1,4-Dichloro-2-buten	11.95	75	62	35.273	ug/l #	20
82) 4-Chlorotoluene	11.91	91	79	3.904	ug/l #	43
83) tert-Butylbenzene	12.17	119	68	2.768	ug/l #	28
84) 1,2,4-Trimethylbenzene	12.21	105	455	19.018	ug/l #	27
85) sec-Butylbenzene	12.38	105	70	2.101	ug/l #	56
86) p-Isopropyltoluene	12.46	119	84	3.019	ug/l #	1
89) n-Butylbenzene	12.81	91	270	9.507	ug/l #	26
90) Hexachloroethane	13.02	117	66	9.697	ug/l #	21
91) 1,2-Dichlorobenzene	13.07	146	78	6.863	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.53	75	95	104.920	ug/l #	1
95) Naphthalene	14.44	128	309	20.731	ug/l #	69

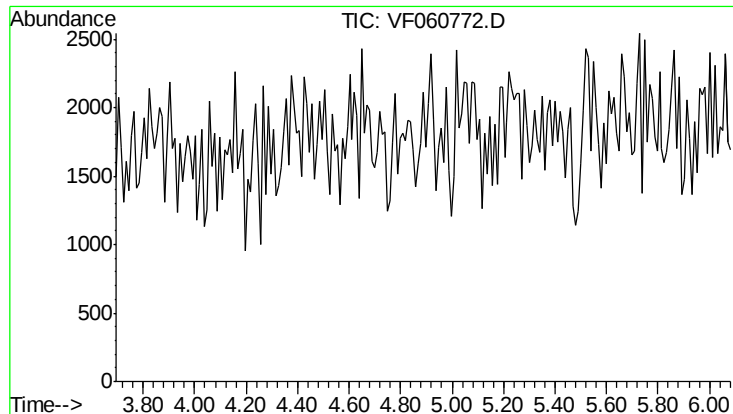
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.89 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Tot Ion: 168

Sig Exp Ratio

168 100

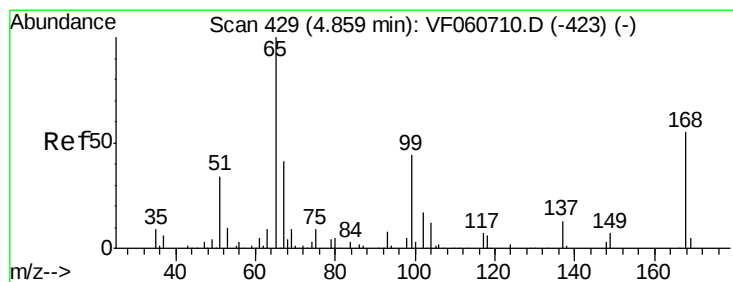
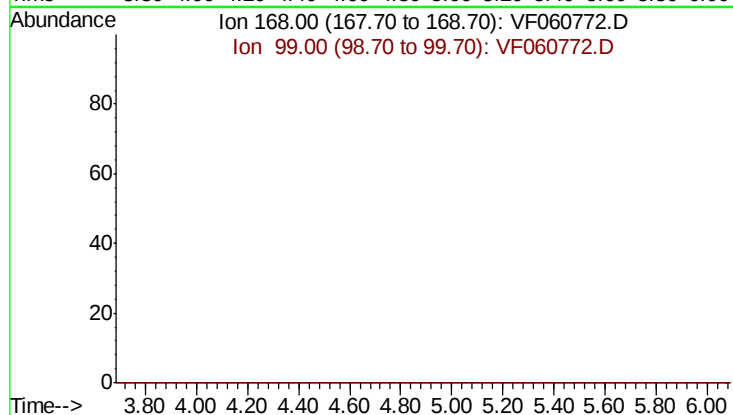
99 71.5

Instrument :

MSVOA_F

ClientSampleId :

BU-03-111518RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.12 min

Lab File: VF060772.D

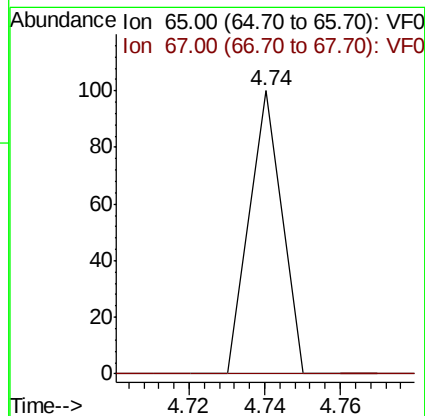
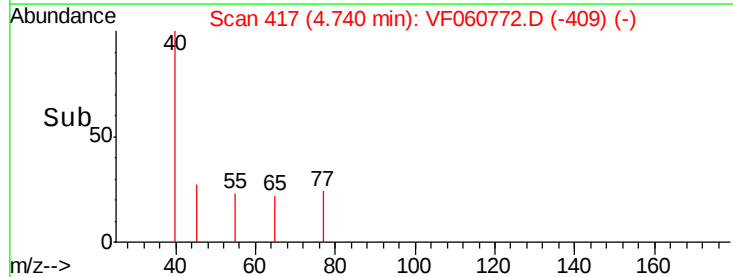
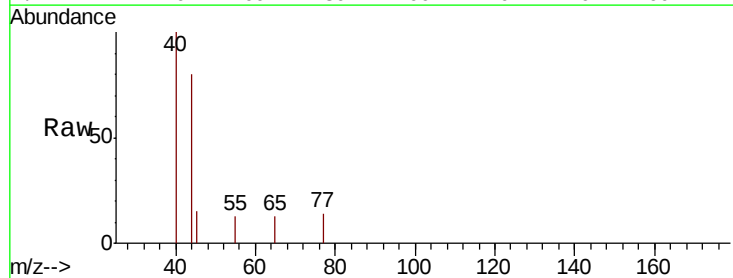
Acq: 16 Nov 2018 18:52

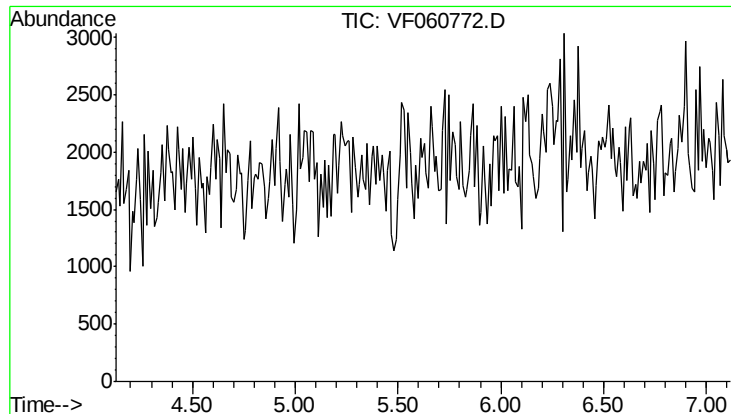
Tgt Ion: 65 Resp: 59

Ion Ratio Lower Upper

65 100

67 0.0 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.62 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

BU-03-111518RE

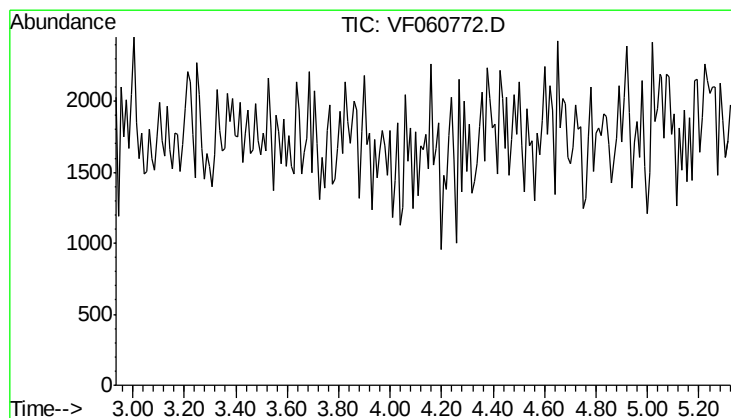
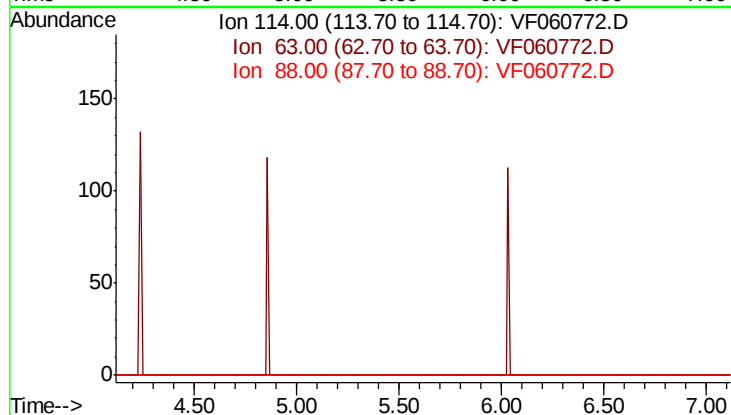
Tot Ion: 114

Sig Exp Ratio

114 100

63 20.4

88 19.8



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.13 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

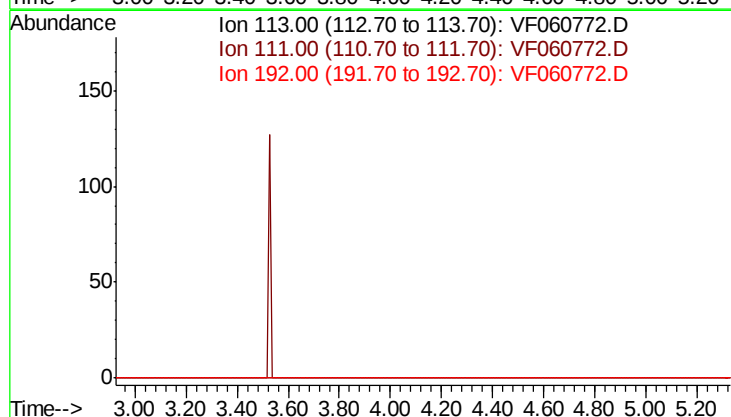
Tgt Ion: 113

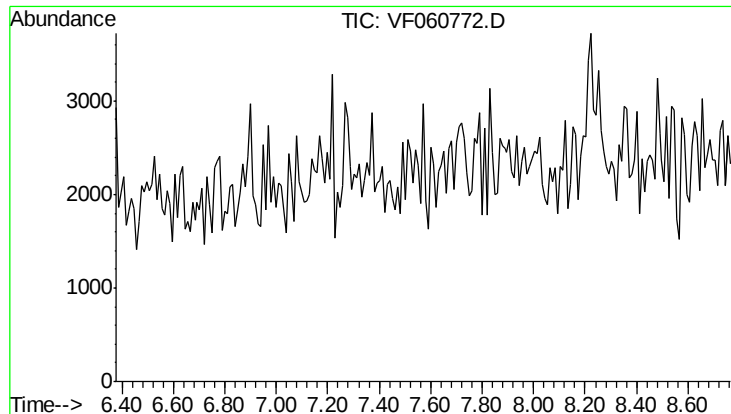
Sig Exp Ratio

113 100

111 108.9

192 17.2



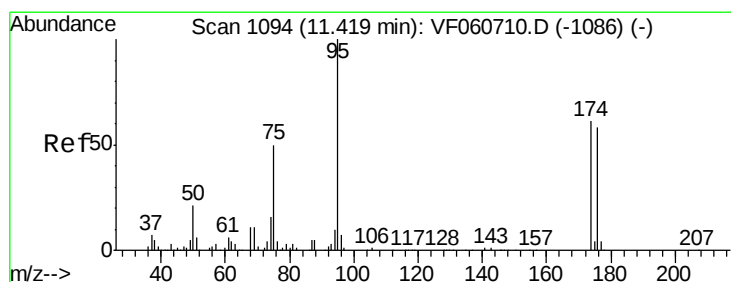
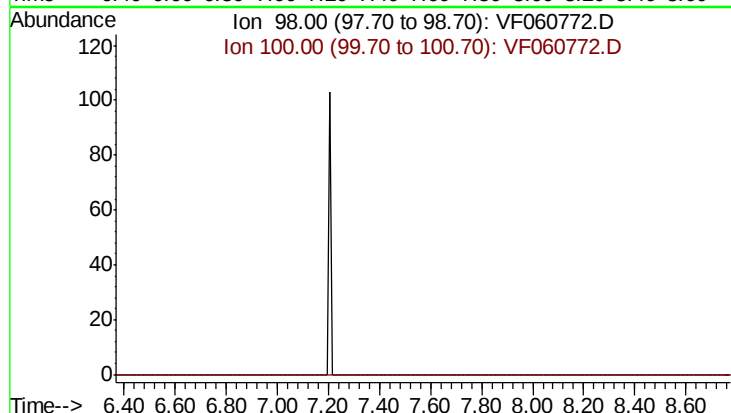


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.57 min

Lab File: VF060772.D
Acq: 16 Nov 2018 18:52

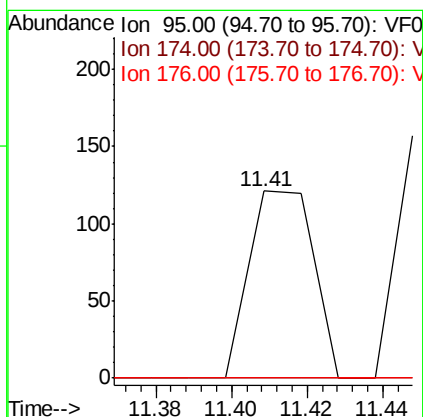
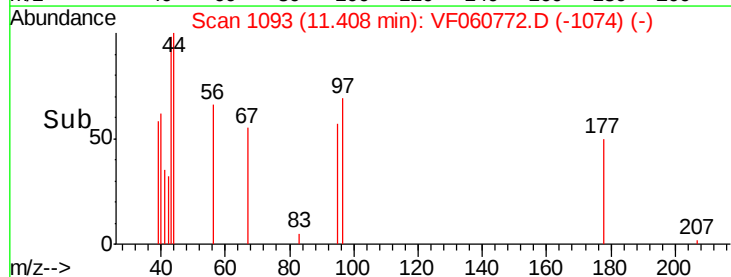
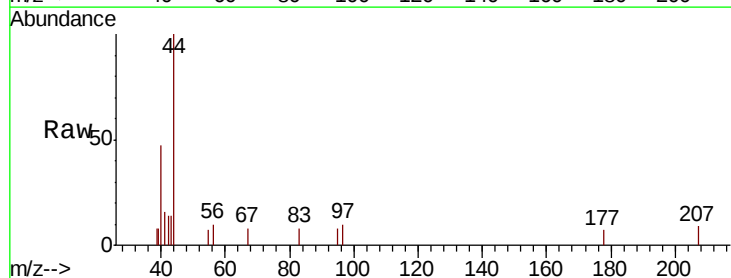
Instrument :
MSVOA_F
ClientSampleId :
BU-03-111518RE

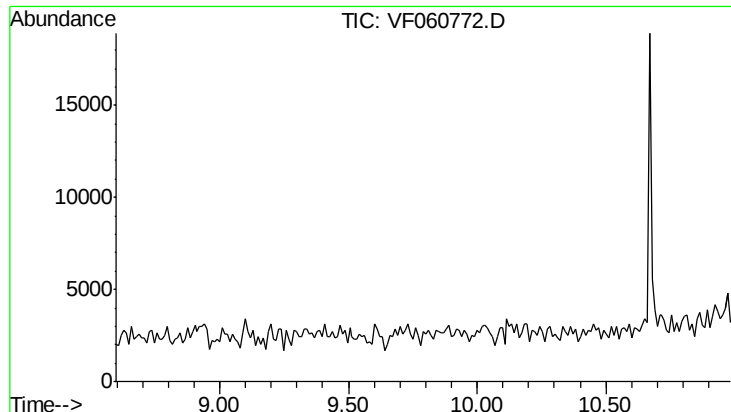
Tot Ion: 98
Sig Exp Ratio
98 100
100 70.6



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060772.D
Acq: 16 Nov 2018 18:52

Tgt Ion: 95 Resp: 143
Ion Ratio Lower Upper
95 100
174 0.0 0.0 121.6
176 0.0 0.0 115.2



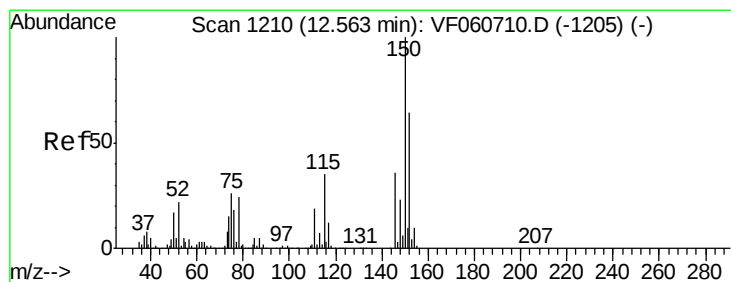
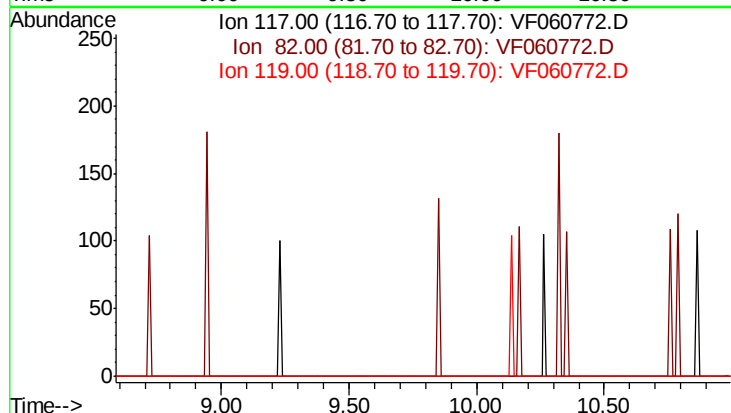


#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.79 min

Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

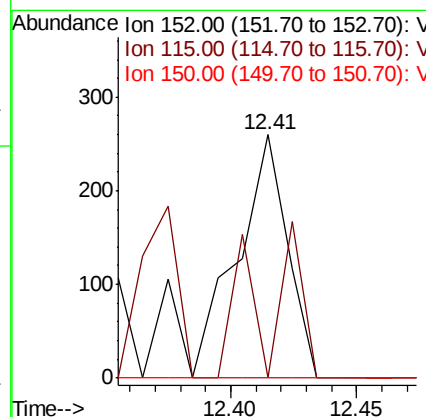
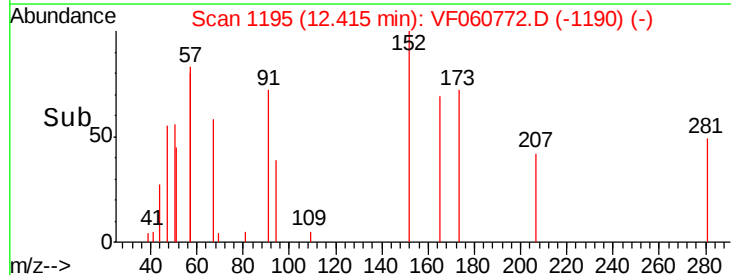
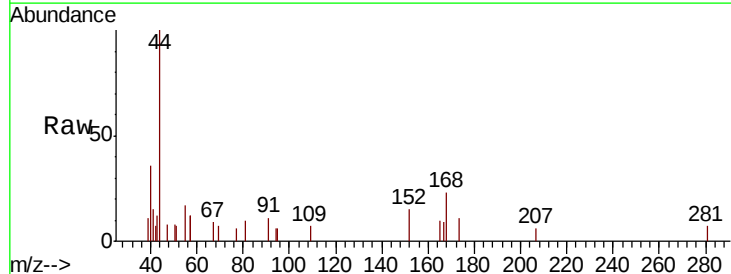
Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-111518RE

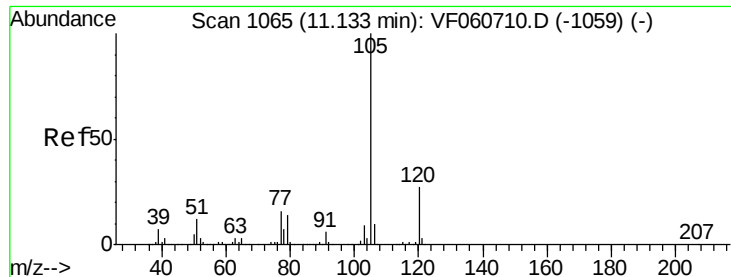
Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 59.9
 119 33.5



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.41 min Scan# 1195
 Delta R.T. -0.15 min
 Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

Tgt Ion: 152 Resp: 362
 Ion Ratio Lower Upper
 152 100
 115 0.0 27.9 83.7#
 150 0.0 0.0 316.4





#73

Isopropylbenzene

Concen: 2.368 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

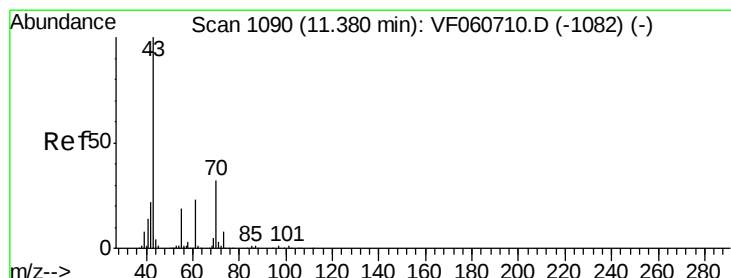
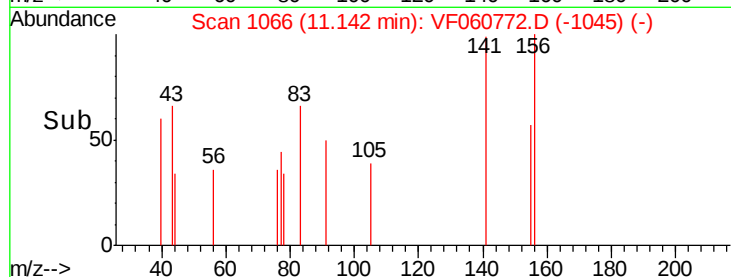
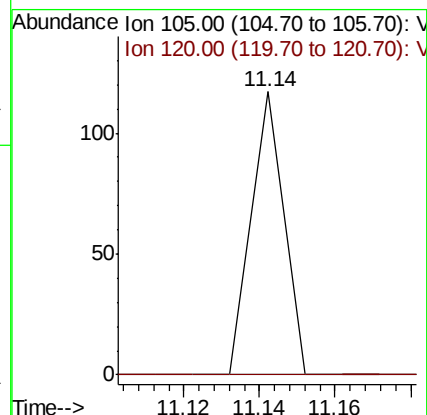
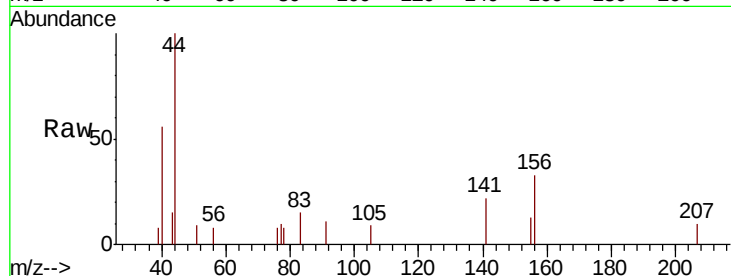
BU-03-111518RE

Tot Ion:105 Resp: 69

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.1#



#74

N-ethyl acetate

Concen: 115.477 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Tgt Ion: 43 Resp: 766

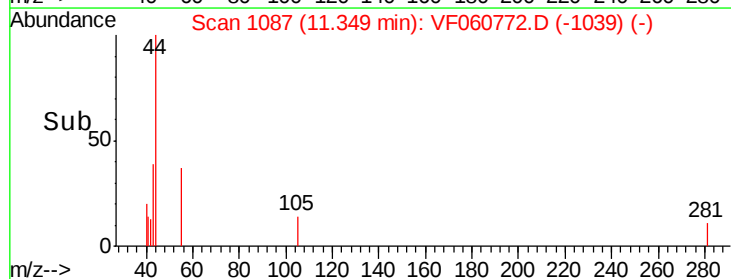
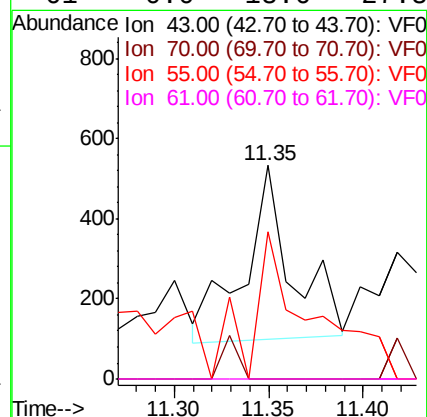
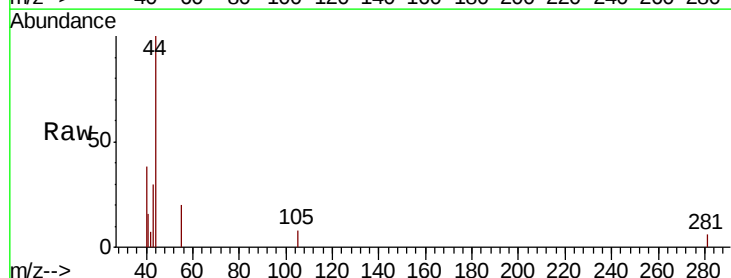
Ion Ratio Lower Upper

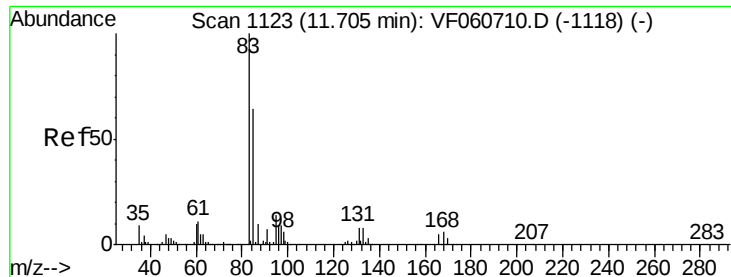
43 100

70 0.0 25.5 38.3#

55 69.0 14.9 22.3#

61 0.0 18.6 27.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 13.077 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

BU-03-111518RE

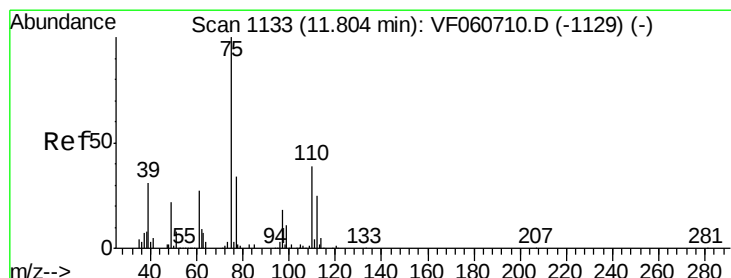
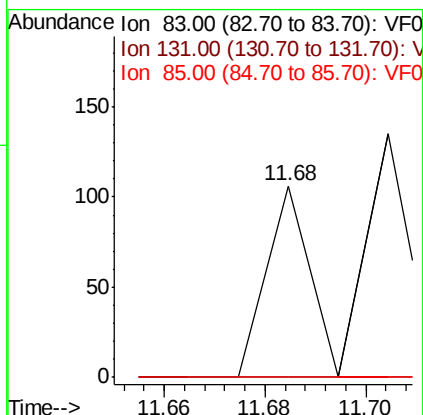
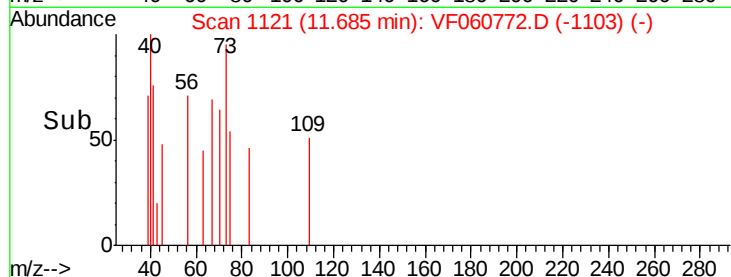
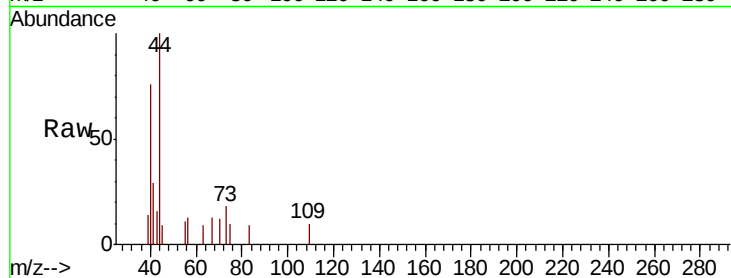
Tot Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 0.0 32.0 96.2#



#76

1,2,3-Trichloropropane

Concen: 20.124 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.12 min

Lab File: VF060772.D

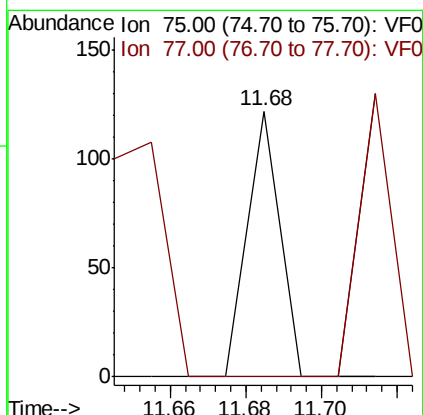
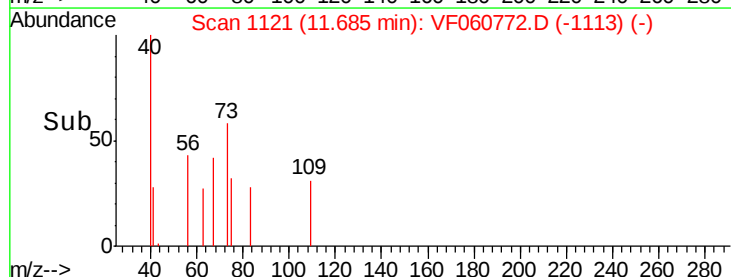
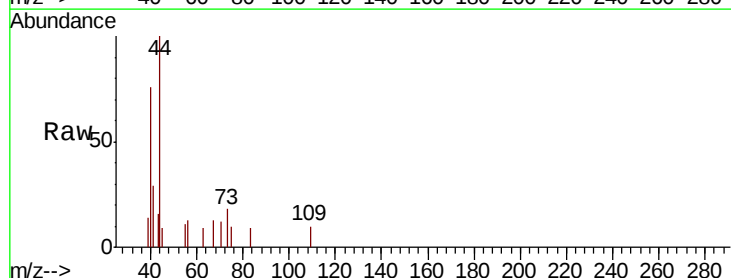
Acq: 16 Nov 2018 18:52

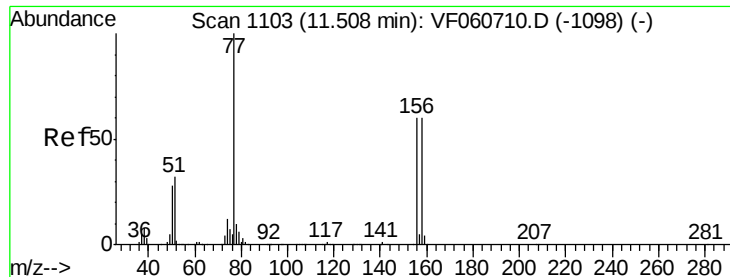
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 17.0 51.0#





#77

Bromobenzene

Concen: 10.387 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.05 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

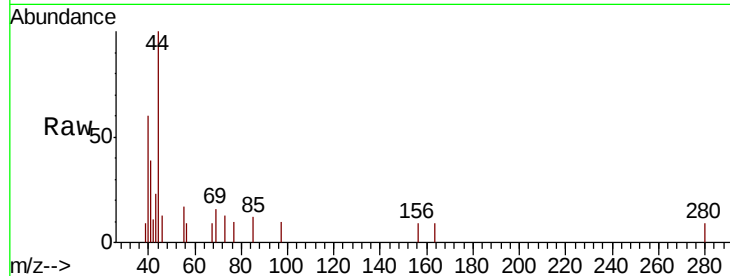
MSVOA_F

ClientSampleId :

BU-03-111518RE

Tot Ion:156 Resp: 63

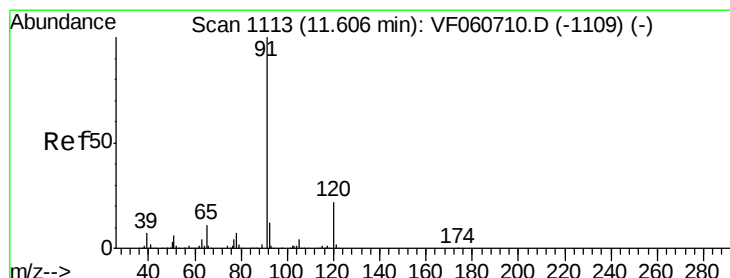
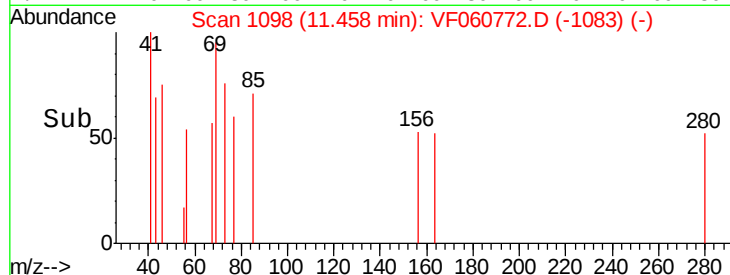
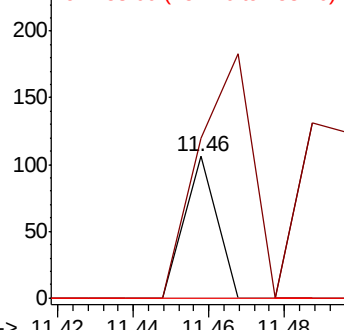
Ion	Ratio	Lower	Upper
156	100		
77	113.2	83.0	248.9
158	0.0	49.6	149.0#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 8.386 ug/l

RT: 11.63 min Scan# 1115

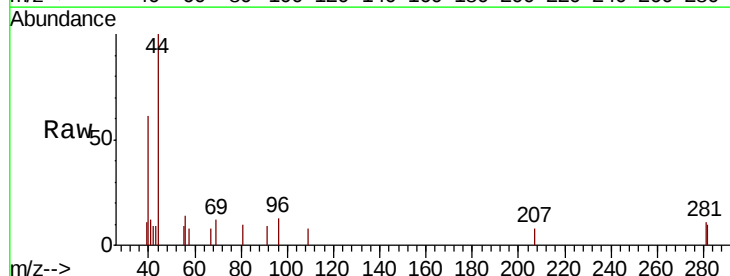
Delta R.T. 0.02 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

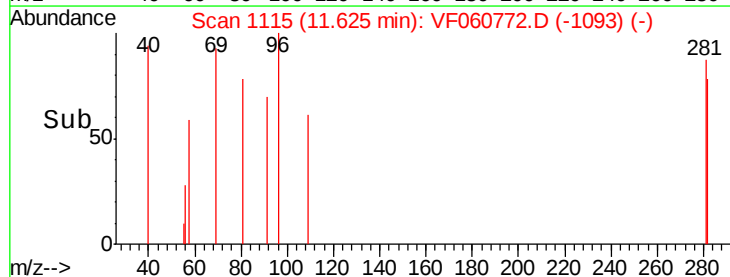
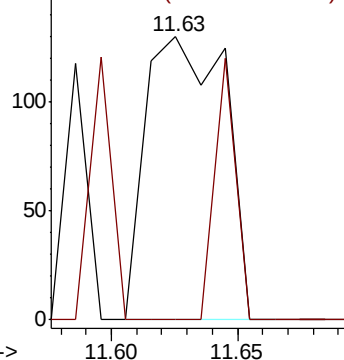
Tgt Ion: 91 Resp: 285

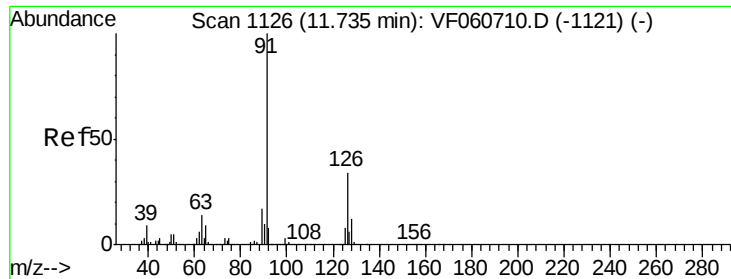
Ion	Ratio	Lower	Upper
91	100		
120	0.0	11.2	33.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.328 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

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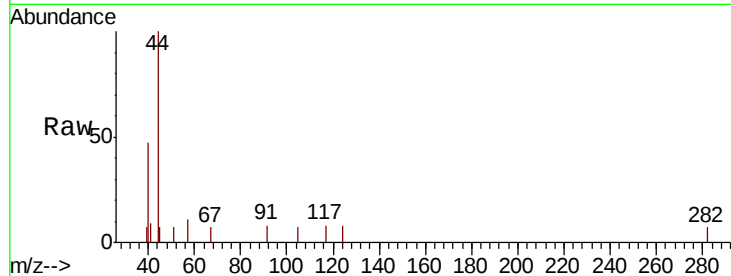
BU-03-111518RE

Tot Ion: 91 Resp: 204

Ion Ratio Lower Upper

91 100

126 0.0 16.8 50.4#

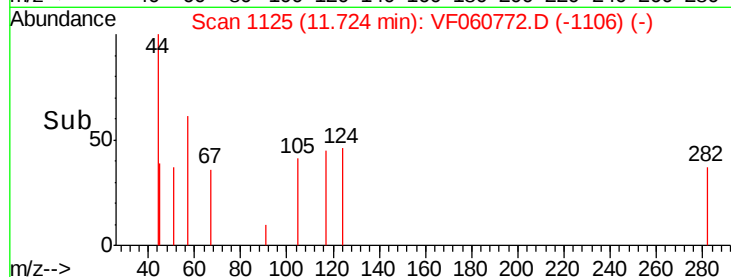


Abundance Ion 91.00 (90.70 to 91.70): VF0

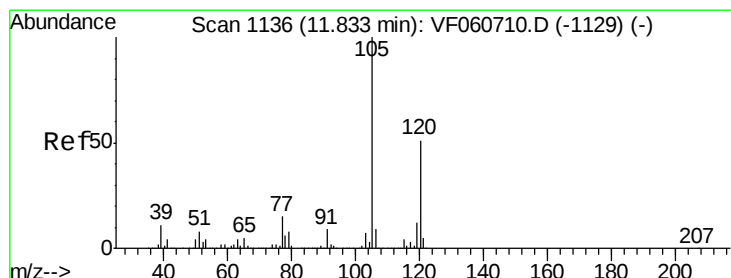
Ion 126.00 (125.70 to 126.70): V

11.72

11.75



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 10.461 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF060772.D

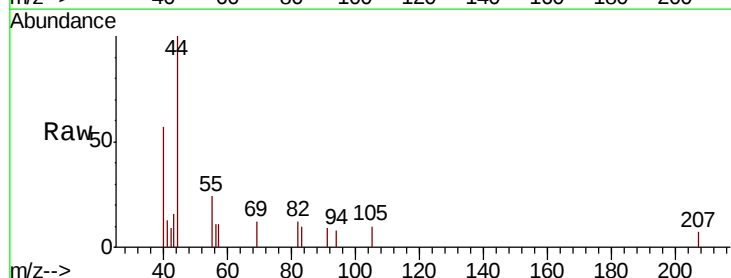
Acq: 16 Nov 2018 18:52

Tgt Ion: 105 Resp: 242

Ion Ratio Lower Upper

105 100

120 0.0 25.6 76.8#

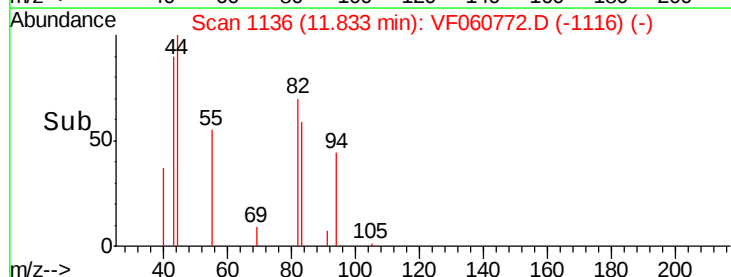


Abundance Ion 105.00 (104.70 to 105.70): V

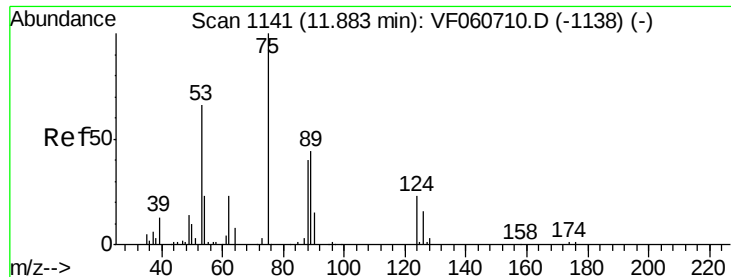
Ion 120.00 (119.70 to 120.70): V

11.83

11.86



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 35.273 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. 0.07 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

BU-03-111518RE

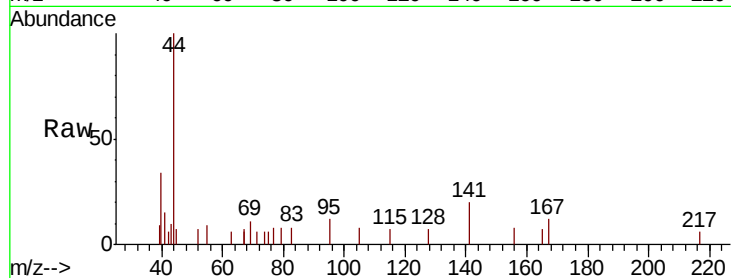
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

53 0.0 57.0 85.4#

89 0.0 37.8 56.8#

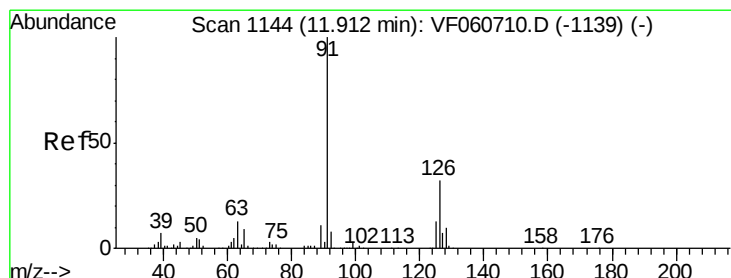
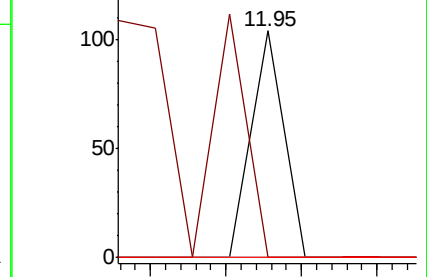
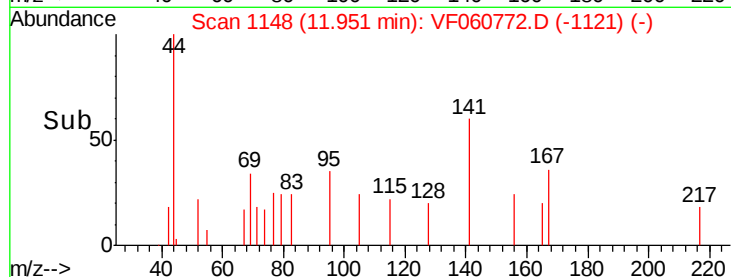


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

11.95



#82

4-Chlorotoluene

Concen: 3.904 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF060772.D

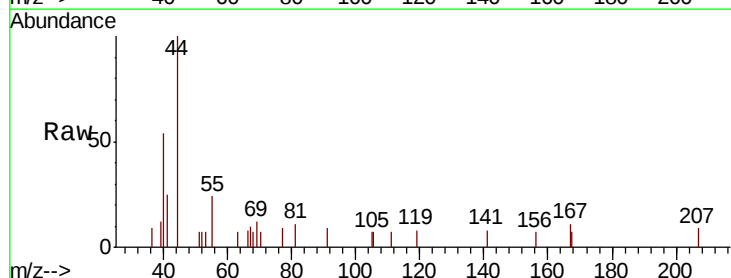
Acq: 16 Nov 2018 18:52

Tgt Ion: 91 Resp: 79

Ion Ratio Lower Upper

91 100

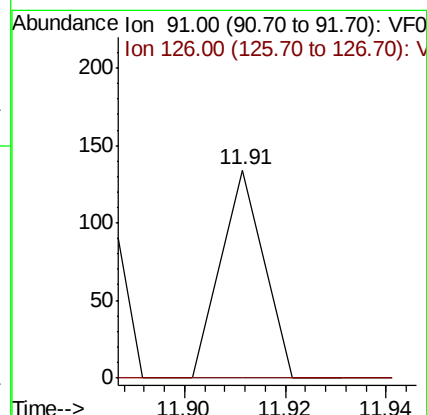
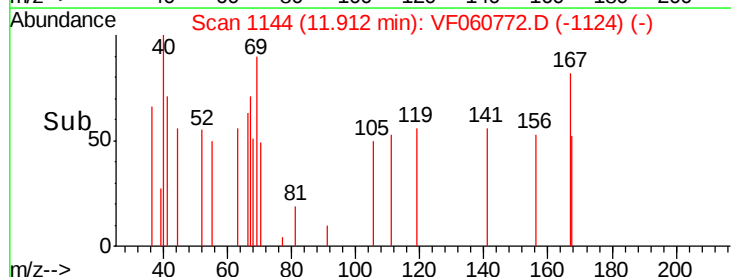
126 0.0 16.0 47.9#

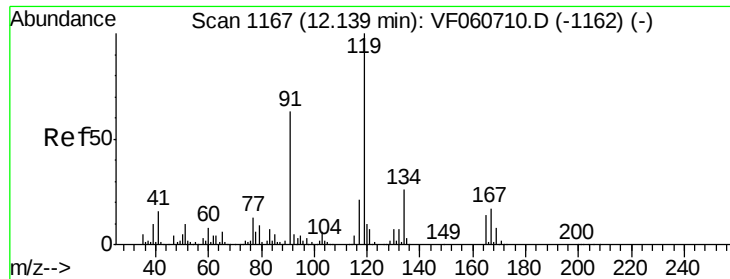


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.91

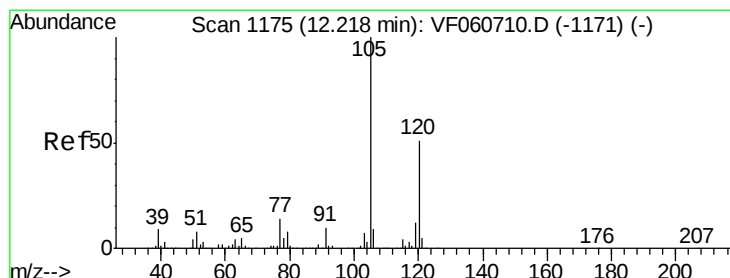
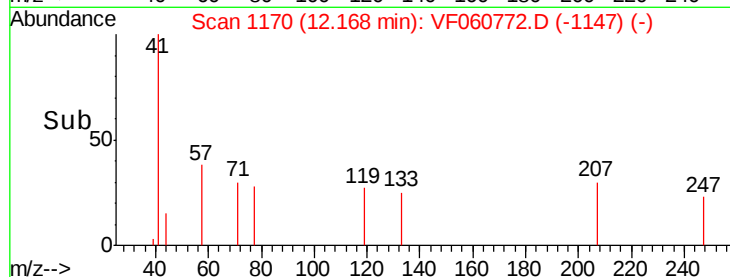
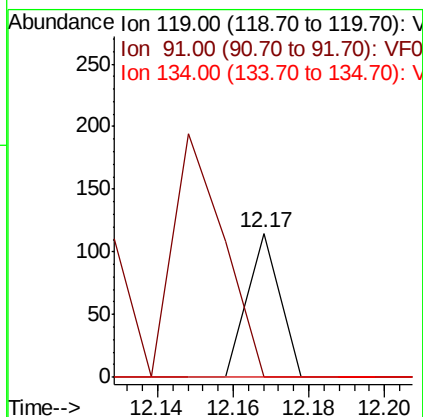
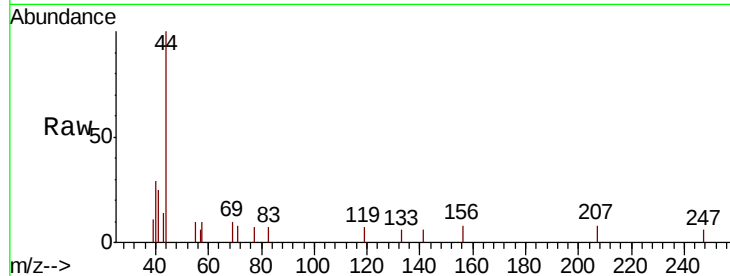




#83
 tert-Butylbenzene
 Concen: 2.768 ug/l
 RT: 12.17 min Scan# 1170
 Delta R.T. 0.03 min
 Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

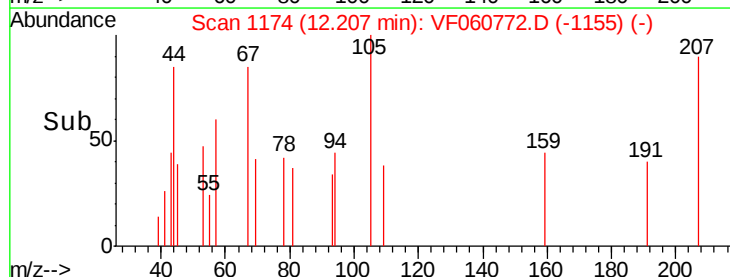
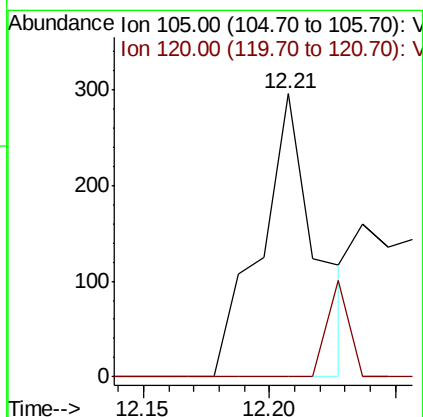
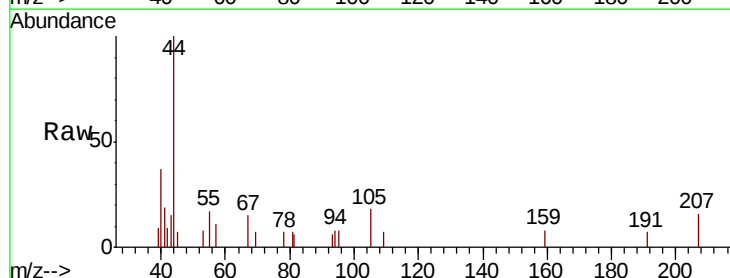
Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-111518RE

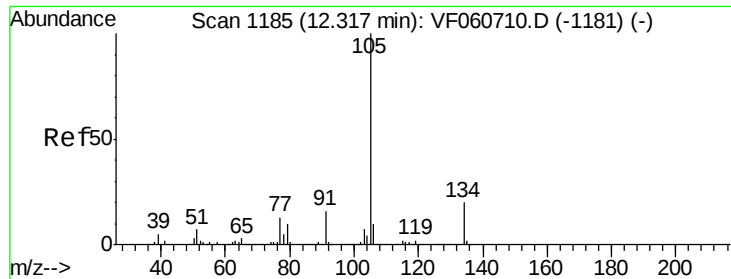
Tot Ion:119 Resp: 68
 Ion Ratio Lower Upper
 119 100
 91 0.0 31.4 94.3#
 134 0.0 12.8 38.4#



#84
 1,2,4-Trimethylbenzene
 Concen: 19.018 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

Tgt Ion:105 Resp: 455
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.5 76.5#

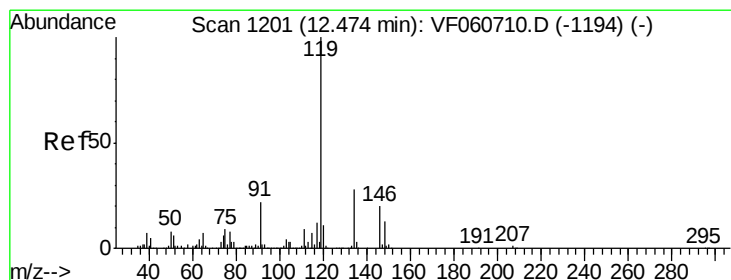
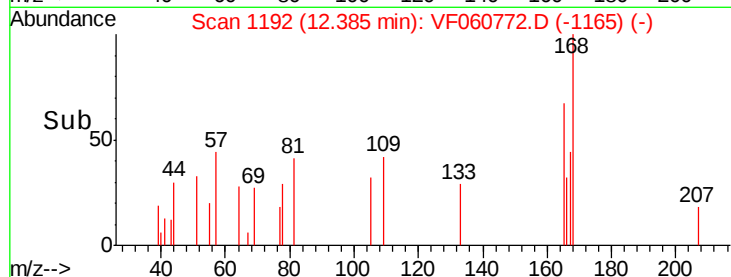
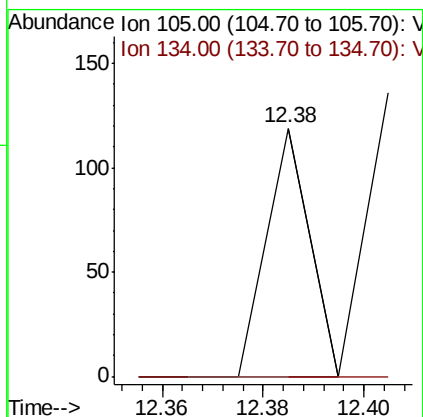
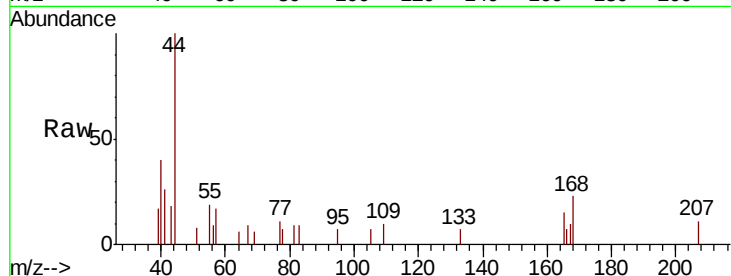




#85
 sec-Butylbenzene
 Concen: 2.101 ug/l
 RT: 12.38 min Scan# 1192
 Delta R.T. 0.07 min
 Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

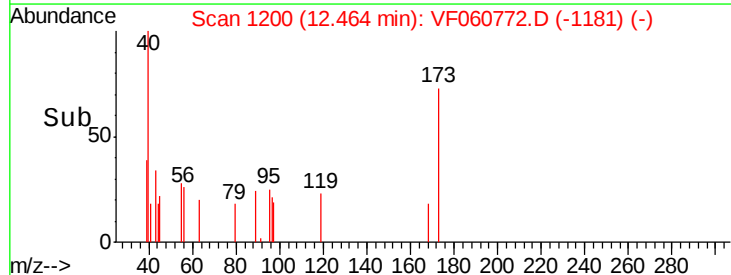
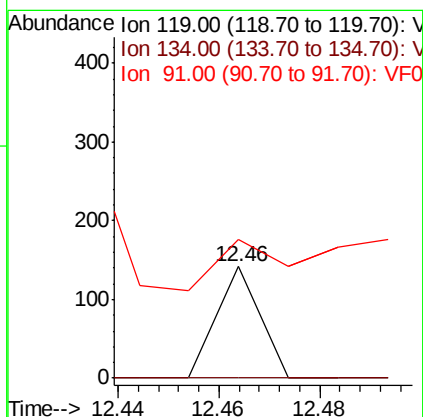
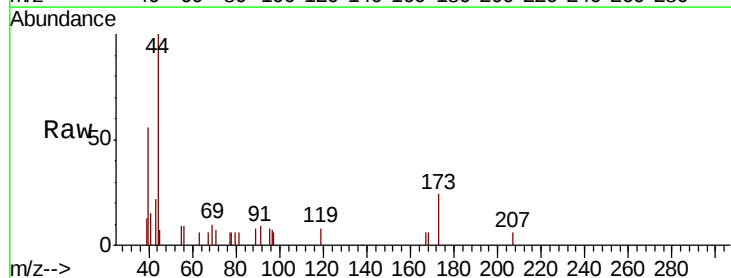
Instrument :
 MSVOA_F
 ClientSampleId :
 BU-03-111518RE

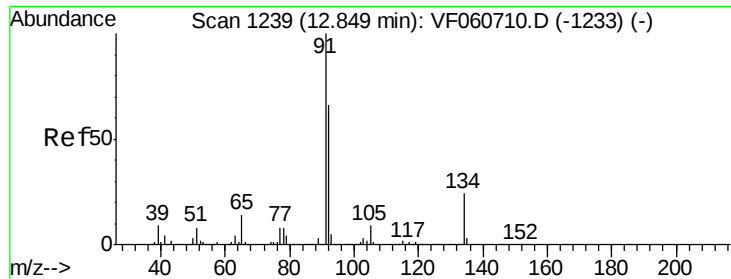
Tot Ion:105 Resp: 70
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#



#86
 p-Isopropyltoluene
 Concen: 3.019 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060772.D
 Acq: 16 Nov 2018 18:52

Tgt Ion:119 Resp: 84
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.9 41.7#
 91 123.9 11.3 33.9#

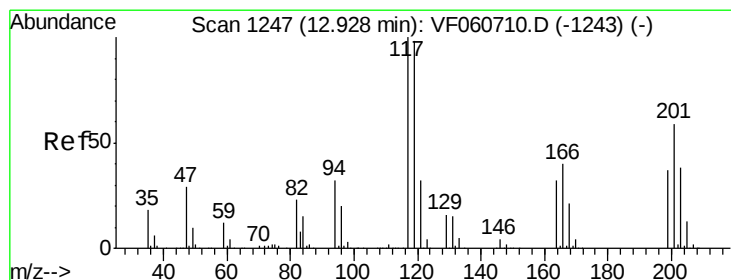
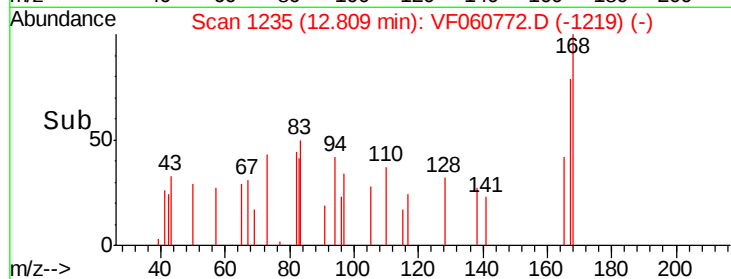
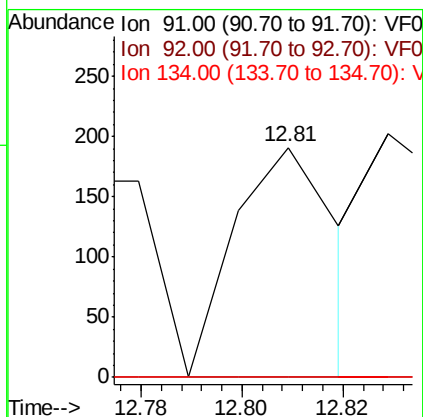
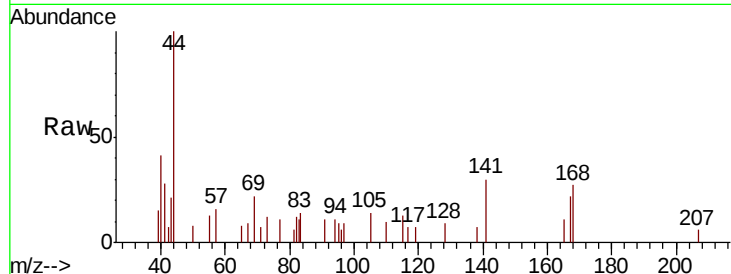




#89
n-Butylbenzene
Concen: 9.507 ug/l
RT: 12.81 min Scan# 1235
Delta R.T. -0.04 min
Lab File: VF060772.D
Acq: 16 Nov 2018 18:52

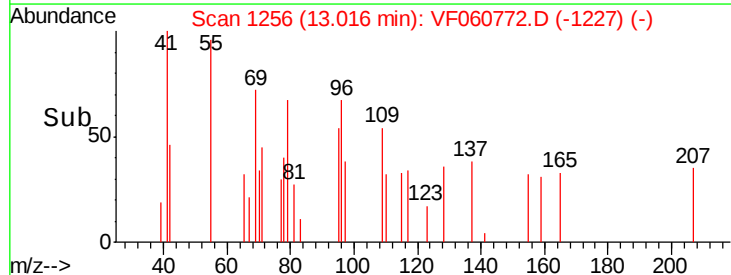
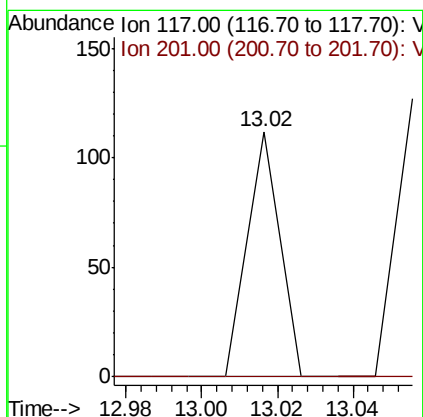
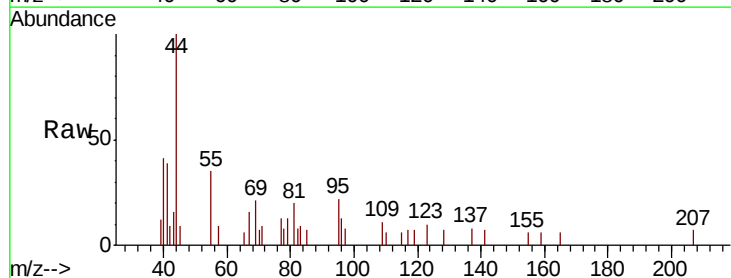
Instrument :
MSVOA_F
ClientSampleId :
BU-03-111518RE

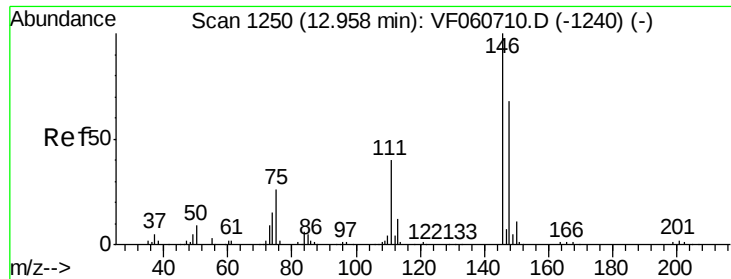
Tot Ion: 91 Resp: 270
Ion Ratio Lower Upper
91 100
92 0.0 33.1 99.2#
134 0.0 11.9 35.9#



#90
Hexachloroethane
Concen: 9.697 ug/l
RT: 13.02 min Scan# 1256
Delta R.T. 0.09 min
Lab File: VF060772.D
Acq: 16 Nov 2018 18:52

Tgt Ion: 117 Resp: 66
Ion Ratio Lower Upper
117 100
201 0.0 29.4 88.3#





#91

1,2-Dichlorobenzene

Concen: 6.863 ug/l

RT: 13.07 min Scan# 1261

Delta R.T. 0.11 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

BU-03-111518RE

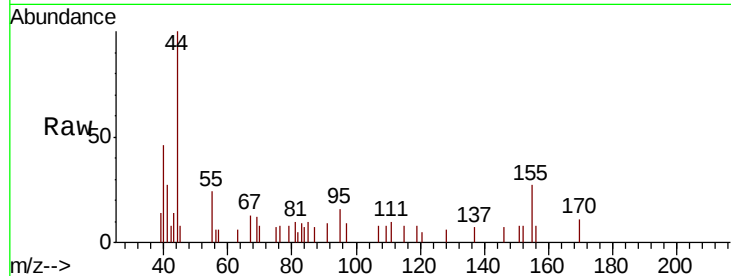
Tot Ion:146 Resp: 78

Ion Ratio Lower Upper

146 100

111 141.2 20.3 60.8#

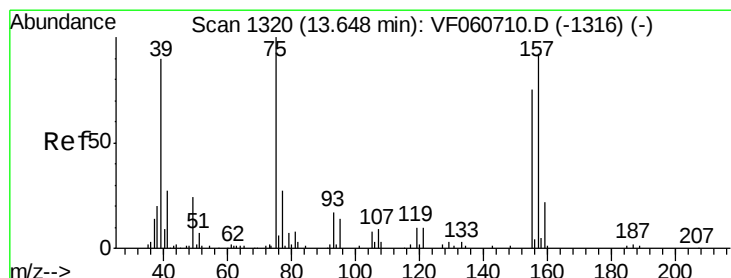
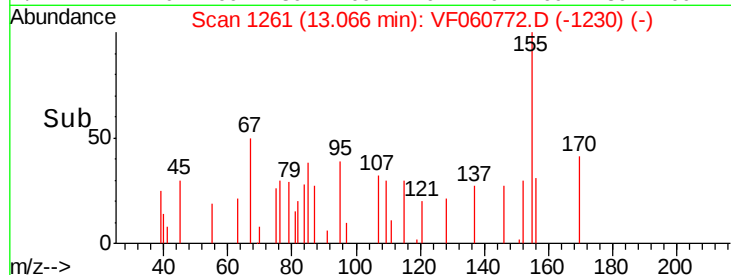
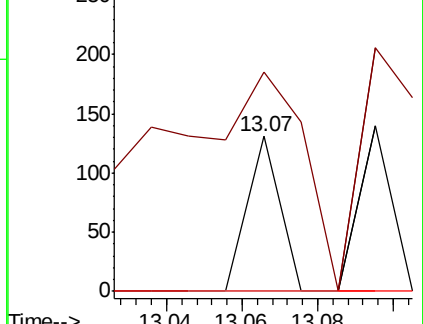
148 0.0 34.1 102.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 104.920 ug/l

RT: 13.53 min Scan# 1308

Delta R.T. -0.12 min

Lab File: VF060772.D

Acq: 16 Nov 2018 18:52

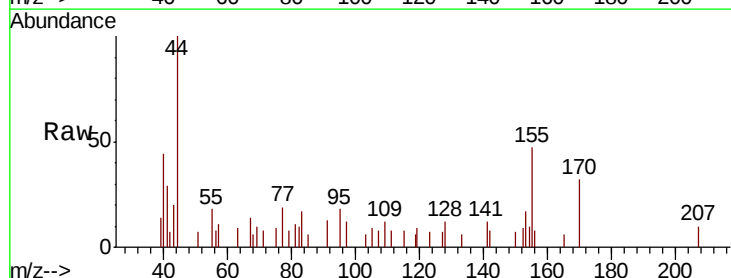
Tgt Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

155 515.5 37.4 112.2#

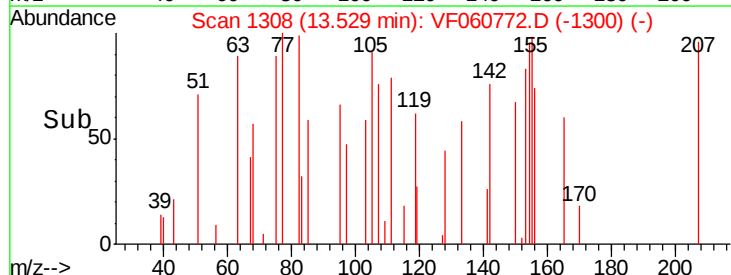
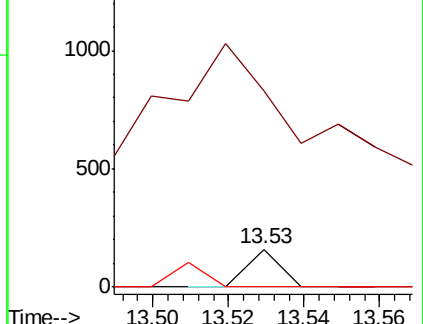
157 0.0 46.0 138.0#

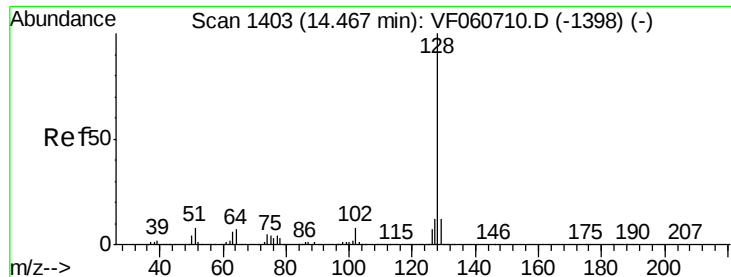


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95
Naphthalene
Concen: 20.731 ug/l
RT: 14.44 min Scan# 1400
Delta R.T. -0.03 min
Lab File: VF060772.D
Acq: 16 Nov 2018 18:52

Instrument :
MSVOA_F
ClientSampleId :
BU-03-111518RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.6#
129	0.0	9.3	13.9#

