

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF032019\
 Data File : VF062042.D
 Acq On : 20 Mar 2019 16:10
 Operator : VA/AP
 Sample : K1693-09RE
 Misc : 7.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-031819-ARE

Quant Time: Mar 21 12:37:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

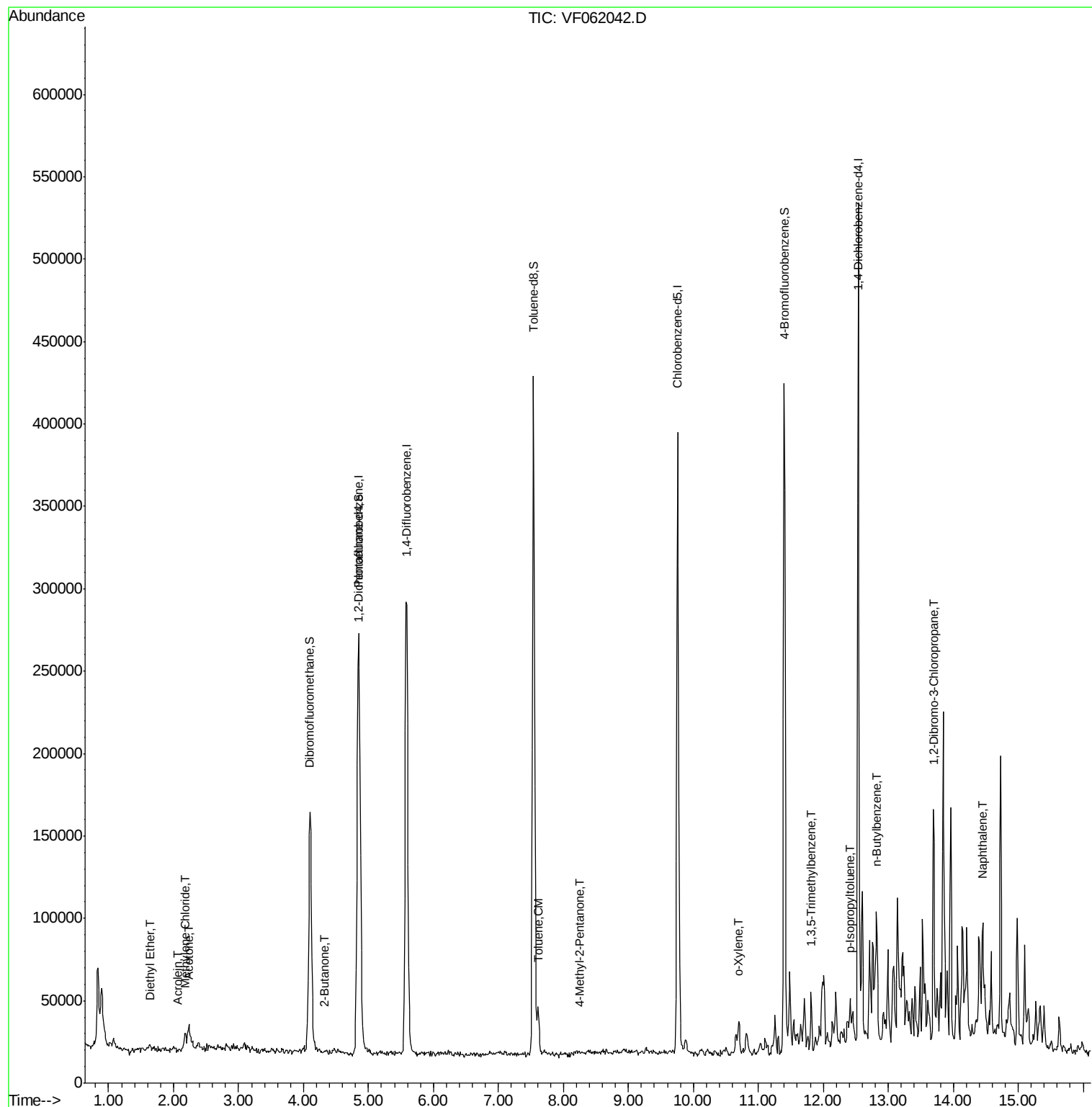
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	232042	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	354339	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	298487	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	140083	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	100705	60.29	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	120.58%	
35) Dibromofluoromethane	4.10	113	148225	62.29	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	124.58%	
50) Toluene-d8	7.54	98	369261	53.09	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	11.40	95	156821	56.75	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	113.50%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	1044	1.458	ug/l	86
13) Acrolein	2.06	56	328	2.973	ug/l	89
16) Acetone	2.24	43	10656	28.410	ug/l	93
20) Methylene Chloride	2.18	84	5194	2.690	ug/l #	86
25) 2-Butanone	4.32	43	1636	2.202	ug/l #	51
51) 4-Methyl-2-Pentanone	8.25	43	1340	1.110	ug/l #	73
52) Toluene	7.61	92	13972	2.697	ug/l	99
69) o-Xylene	10.70	106	5894	1.539	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	16660	2.131	ug/l	91
86) p-Isopropyltoluene	12.42	119	14414	1.564	ug/l	98
89) n-Butylbenzene	12.83	91	12261	1.416	ug/l #	38
92) 1,2-Dibromo-3-Chloropropan	13.69	75	763	2.976	ug/l #	1
95) Naphthalene	14.44	128	19049	3.728	ug/l #	84

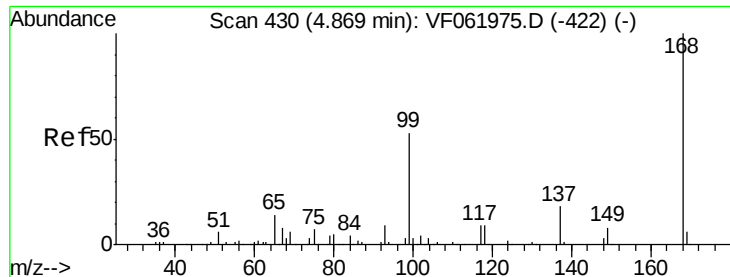
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF032019\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

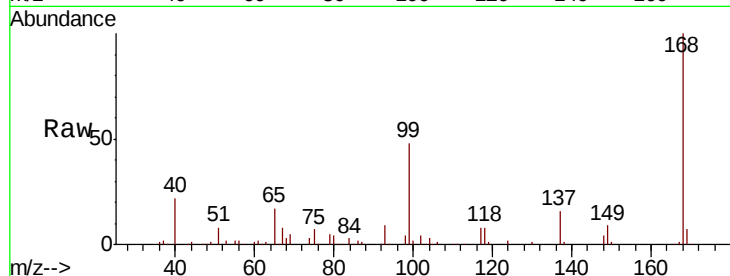
Instrument :
MSVOA_F
ClientSampleId :
OR-03-031819-ARE

Tgt Ion:168 Resp: 232042

Ion Ratio Lower Upper

168 100

99 48.4 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

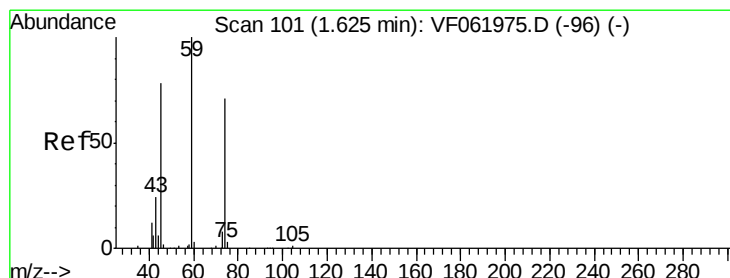
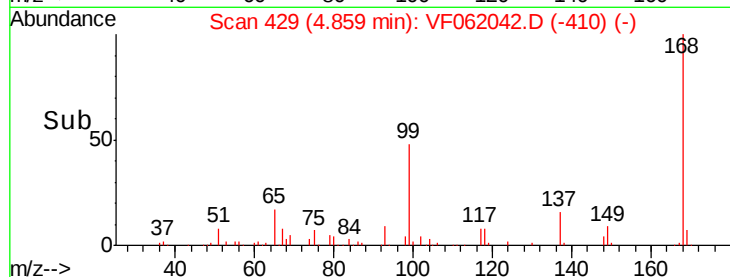
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 1.458 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF062042.D

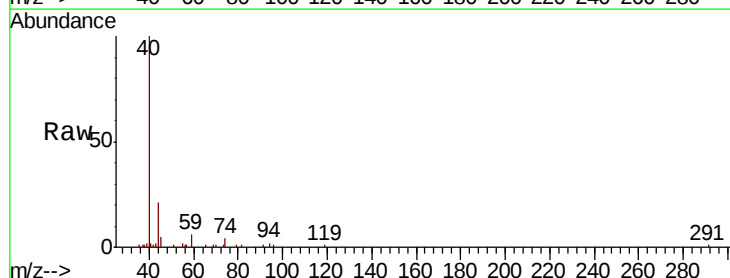
Acq: 20 Mar 2019 16:10

Tgt Ion: 74 Resp: 1044

Ion Ratio Lower Upper

74 100

45 127.7 56.3 168.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.62

800

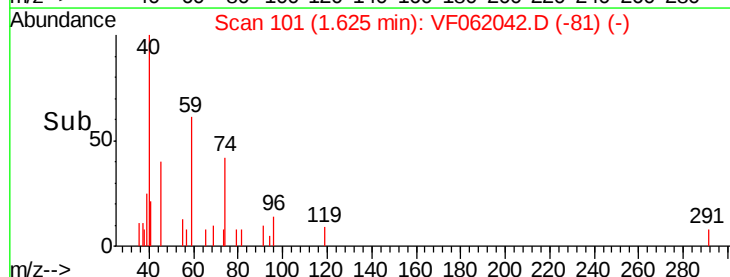
600

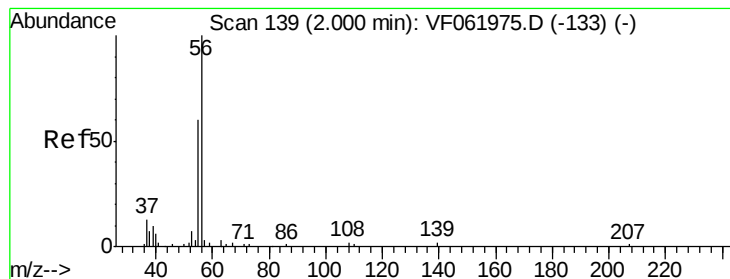
400

200

0

Time--> 1.60 1.65 1.70





#13

Acrolein

Concen: 2.973 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.06 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

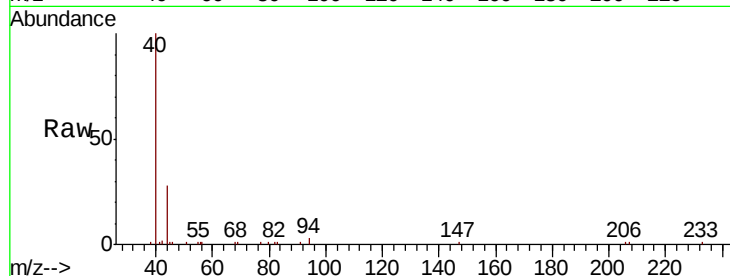
Instrument :
MSVOA_F
ClientSampleId :
OR-03-031819-ARE

Tgt Ion: 56 Resp: 328

Ion Ratio Lower Upper

56 100

55 52.7 49.1 73.7



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.06

300

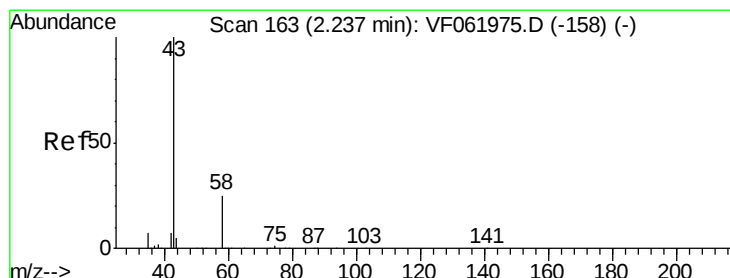
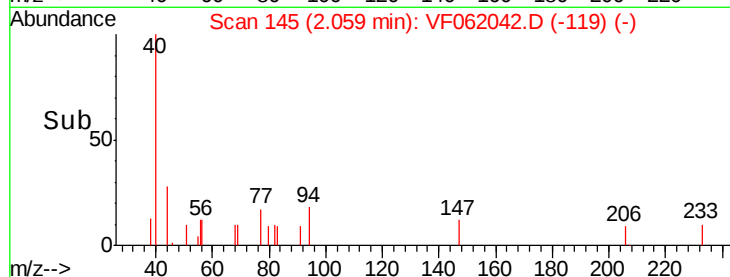
200

100

0

2.02 2.04 2.06 2.08 2.10

Time-->



#16

Acetone

Concen: 28.410 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF062042.D

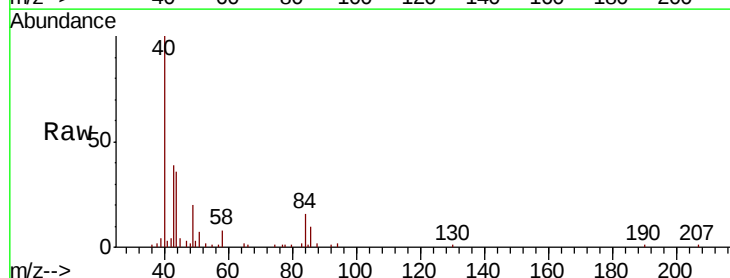
Acq: 20 Mar 2019 16:10

Tgt Ion: 43 Resp: 10656

Ion Ratio Lower Upper

43 100

58 21.5 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

5000

4000

3000

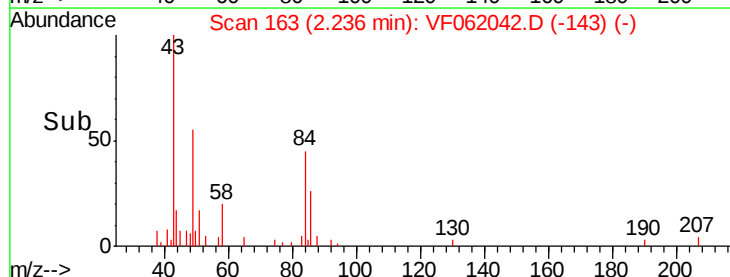
2000

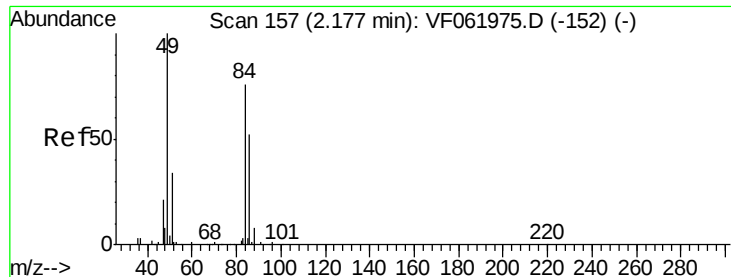
1000

0

2.15 2.20 2.25 2.30 2.35

Time-->

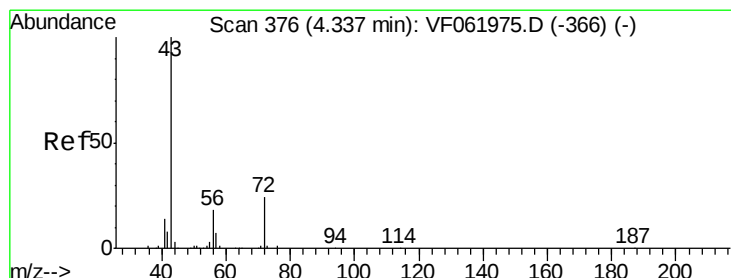
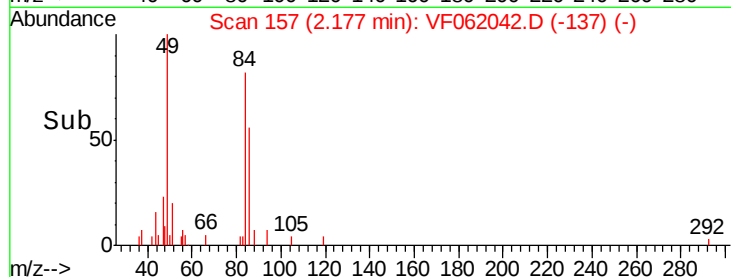
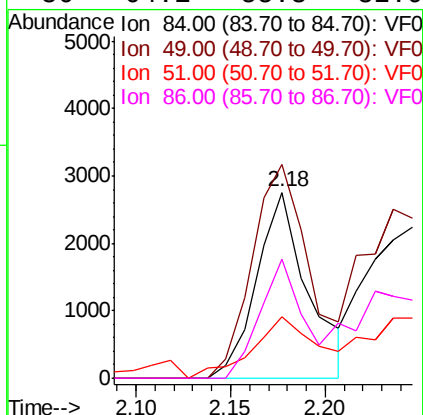
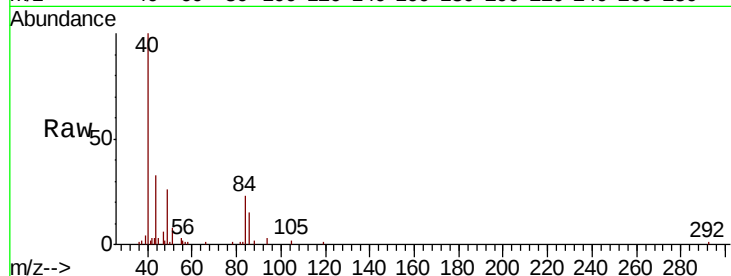




#20
Methylene Chloride
Concen: 2.690 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

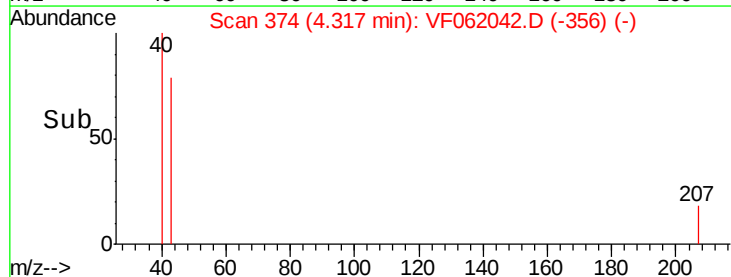
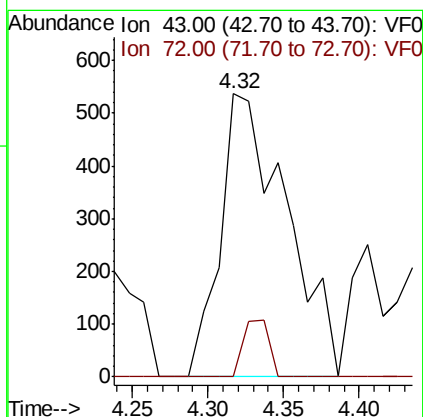
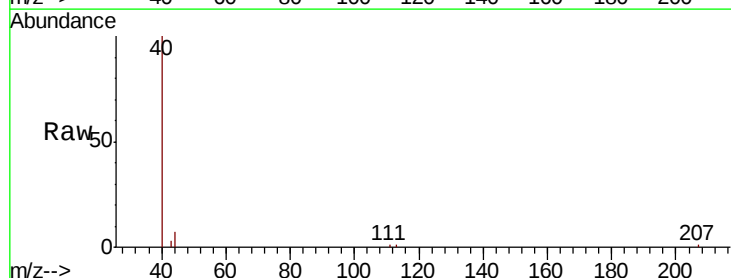
Instrument :
MSVOA_F
ClientSampleId :
OR-03-031819-ARE

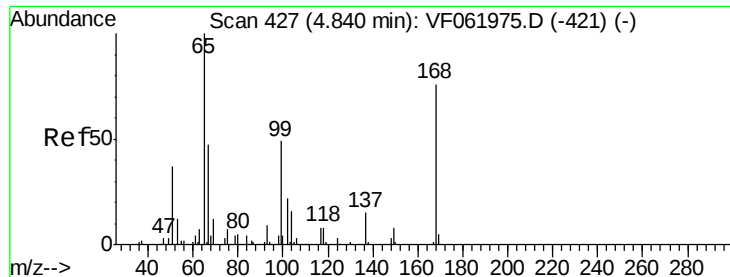
Tgt Ion: 84 Resp: 5194
Ion Ratio Lower Upper
84 100
49 114.7 107.0 160.6
51 32.8 37.2 55.8#
86 64.1 55.3 82.9



#25
2-Butanone
Concen: 2.202 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.02 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

Tgt Ion: 43 Resp: 1636
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#

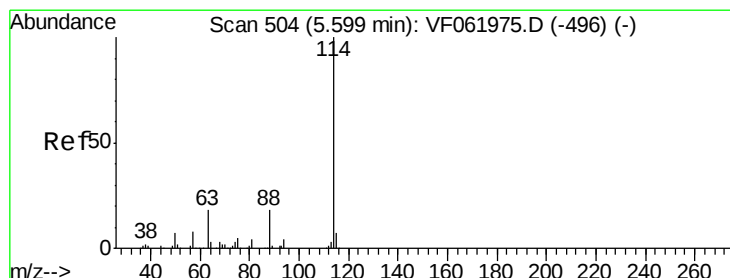
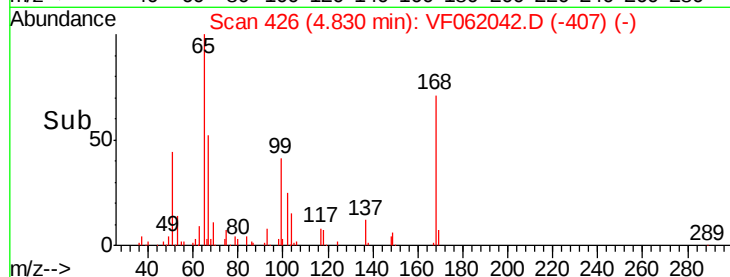
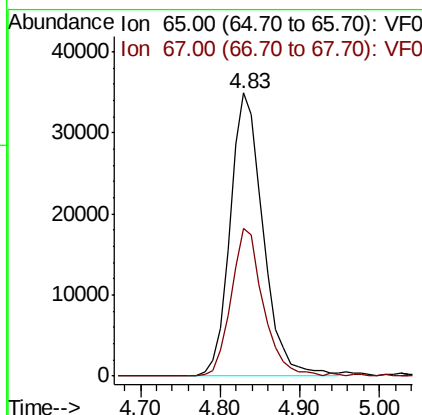
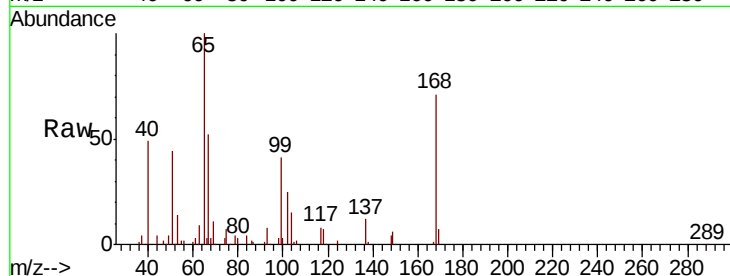




#33
 1,2-Dichloroethane-d4
 Concen: 60.290 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.01 min
 Lab File: VF062042.D
 Acq: 20 Mar 2019 16:10

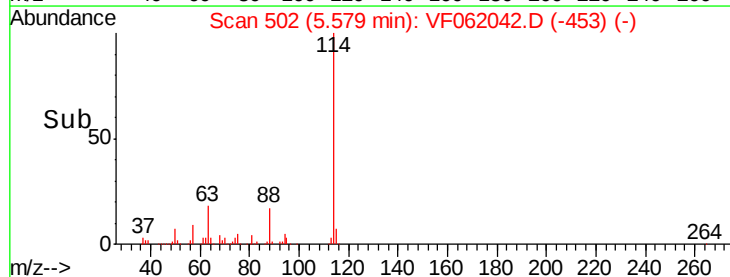
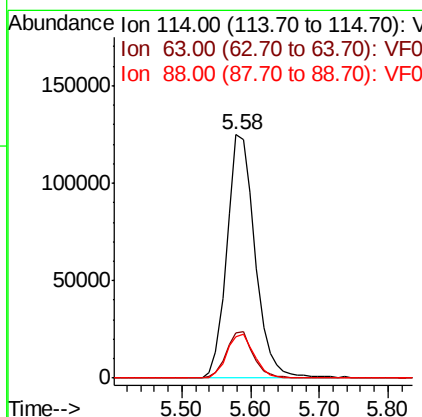
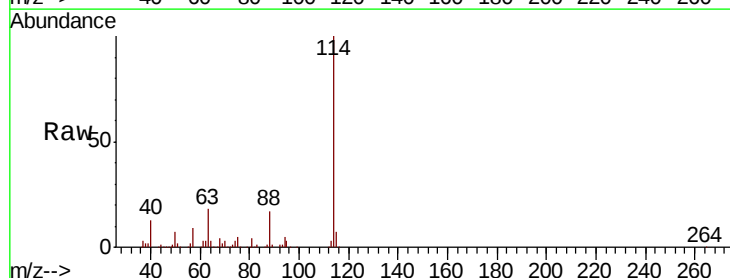
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-031819-ARE

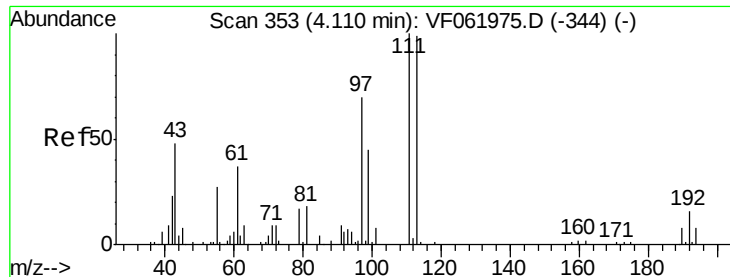
Tgt Ion: 65 Resp: 100705
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF062042.D
 Acq: 20 Mar 2019 16:10

Tgt Ion: 114 Resp: 354339
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.4
 88 16.8 0.0 36.4

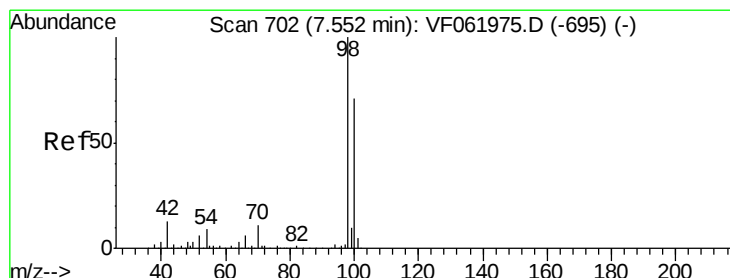
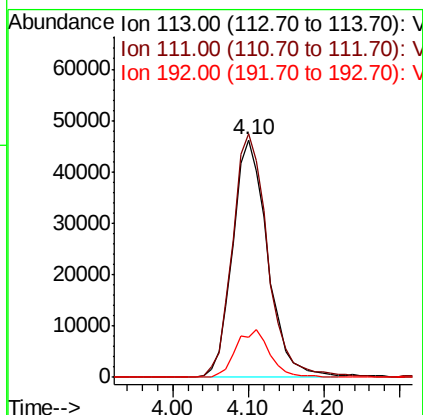
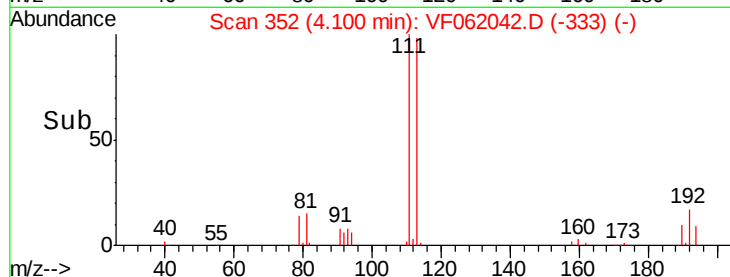
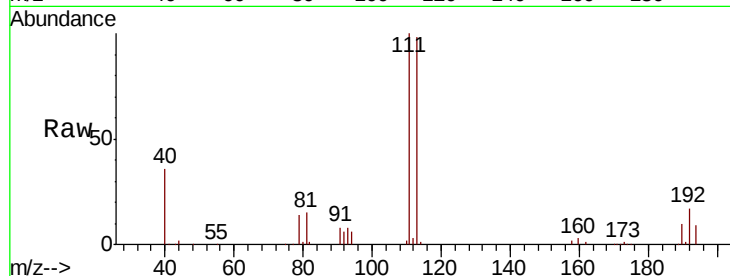




#35
Dibromofluoromethane
Concen: 62.294 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

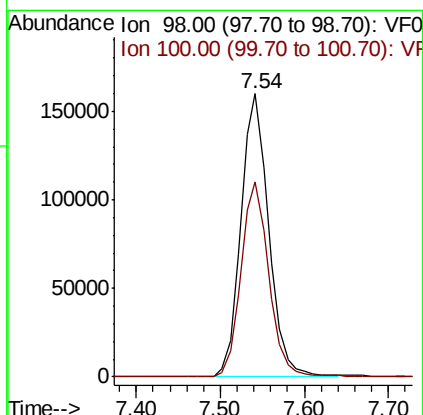
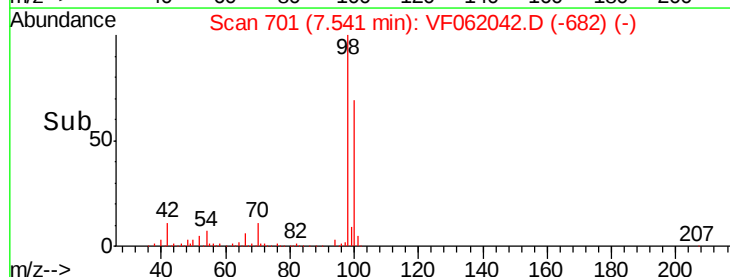
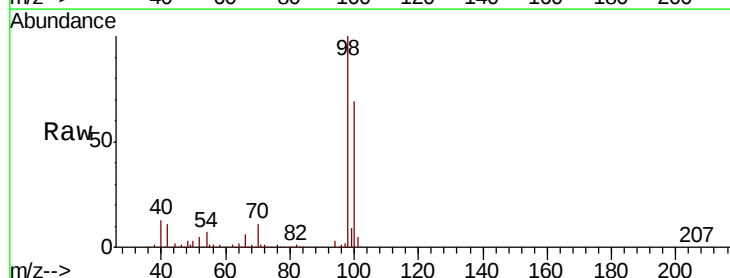
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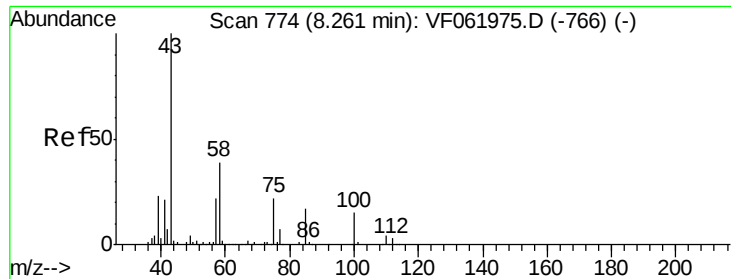
Tgt Ion:113 Resp: 148225
Ion Ratio Lower Upper
113 100
111 102.4 80.8 121.2
192 17.1 13.0 19.6



#50
Toluene-d8
Concen: 53.086 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.01 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

Tgt Ion: 98 Resp: 369261
Ion Ratio Lower Upper
98 100
100 69.1 56.8 85.2





#51

4-Methyl-2-Pentanone

Concen: 1.110 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

Instrument :

MSVOA_F

ClientSampleId :

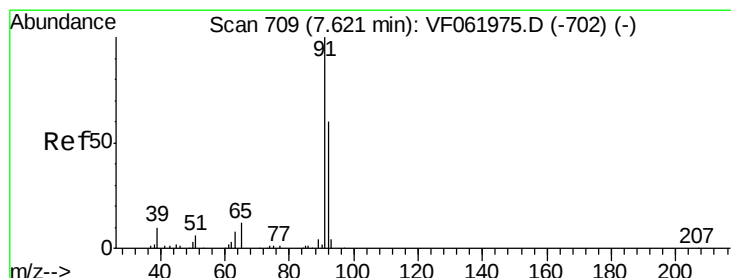
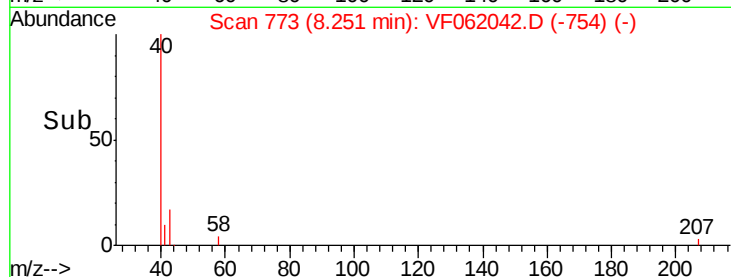
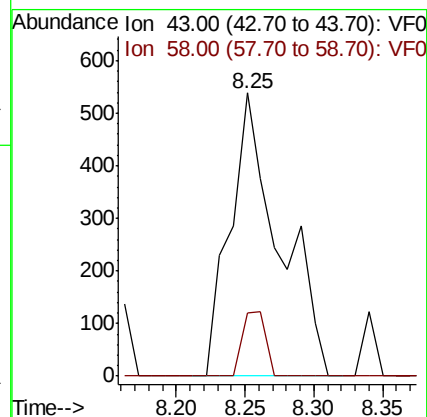
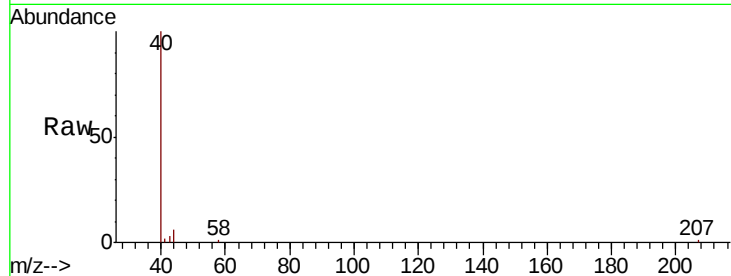
OR-03-031819-ARE

Tgt Ion: 43 Resp: 1340

Ion Ratio Lower Upper

43 100

58 22.3 31.1 46.7#



#52

Toluene

Concen: 2.697 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF062042.D

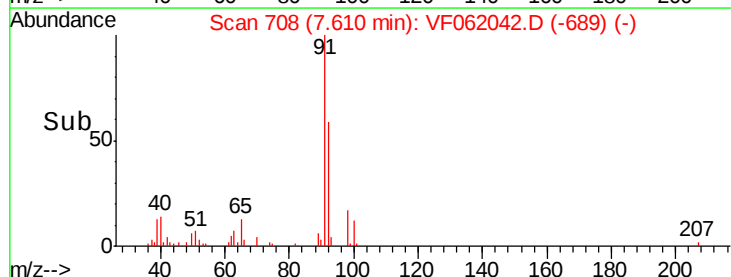
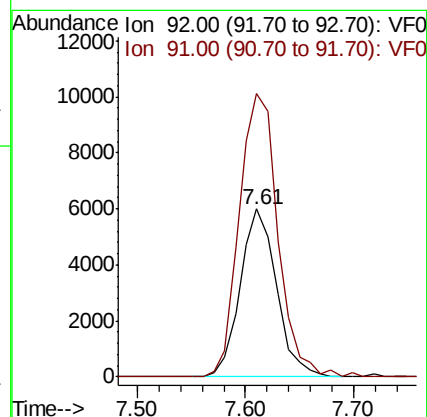
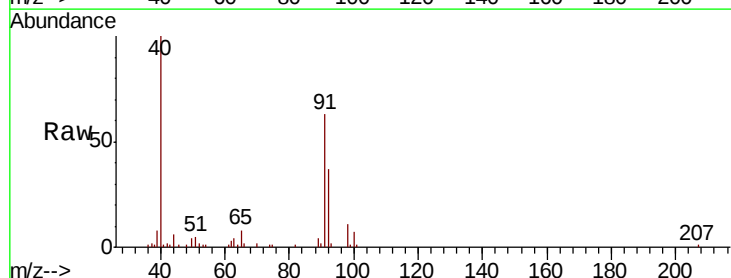
Acq: 20 Mar 2019 16:10

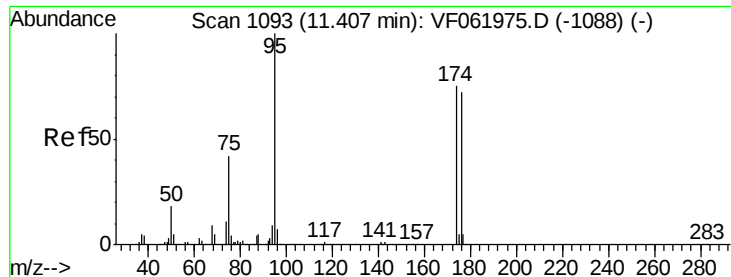
Tgt Ion: 92 Resp: 13972

Ion Ratio Lower Upper

92 100

91 168.4 134.0 201.0





#62

4-Bromofluorobenzene

Concen: 56.751 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

Instrument :

MSVOA_F

ClientSampleId :

OR-03-031819-ARE

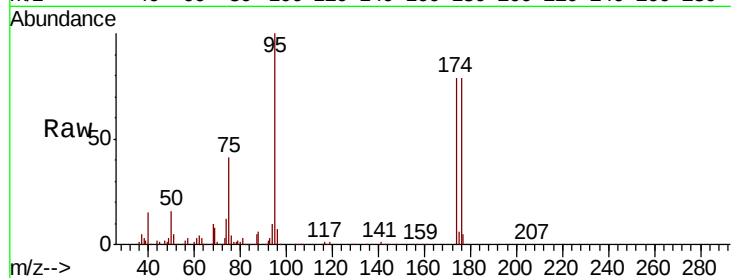
Tgt Ion: 95 Resp: 156821

Ion Ratio Lower Upper

95 100

174 78.8 0.0 149.4

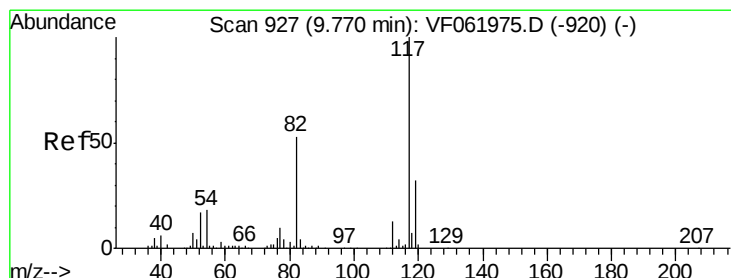
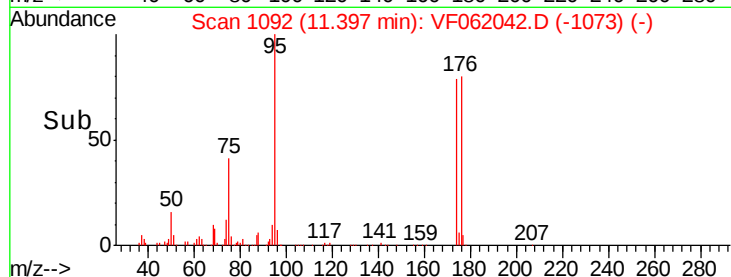
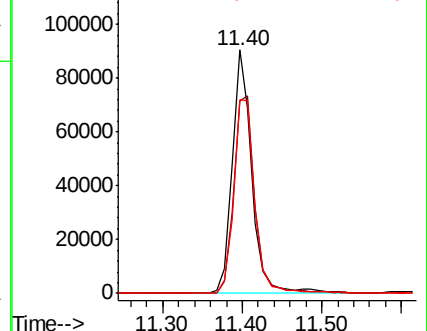
176 79.5 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

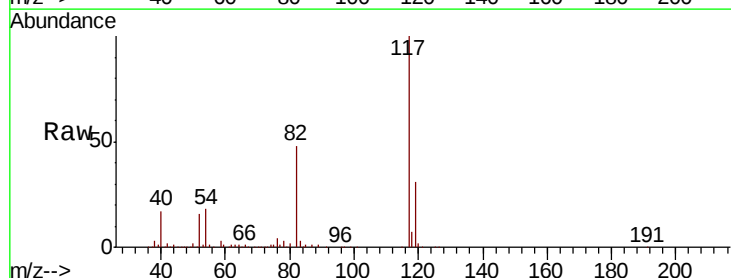
Tgt Ion: 117 Resp: 298487

Ion Ratio Lower Upper

117 100

82 48.3 42.5 63.7

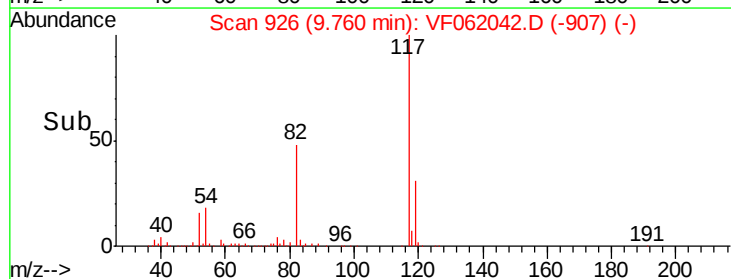
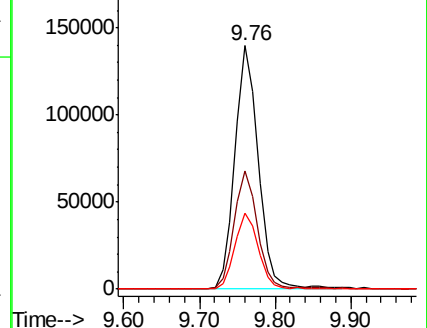
119 31.1 25.4 38.0

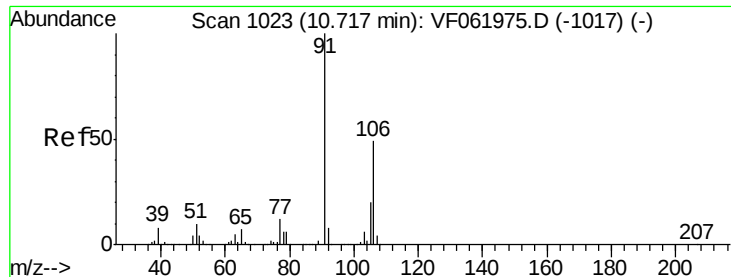


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

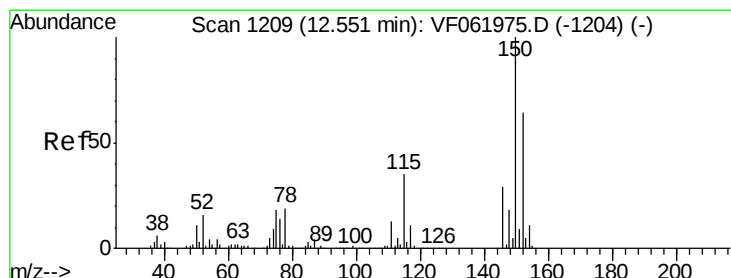
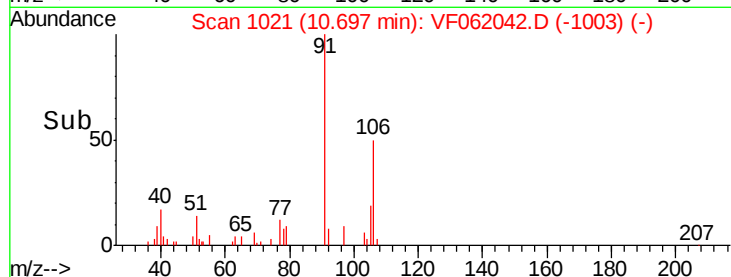
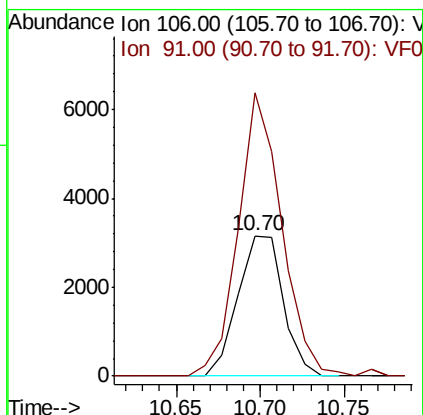
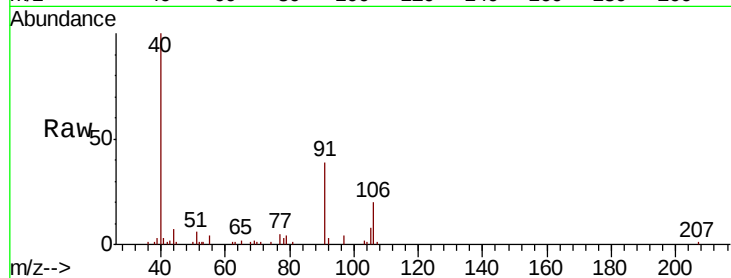




#69
o-Xylene
Concen: 1.539 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

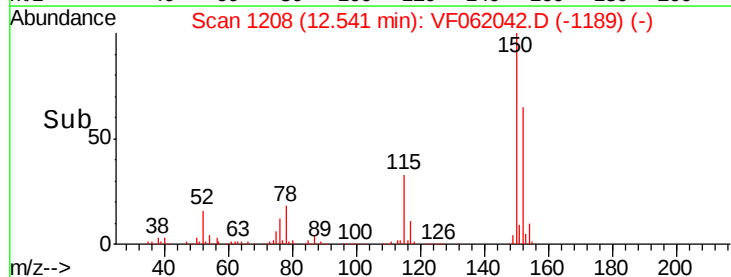
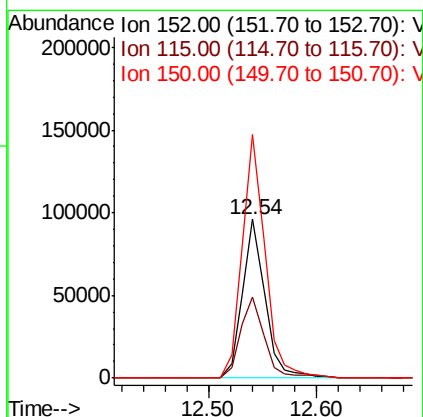
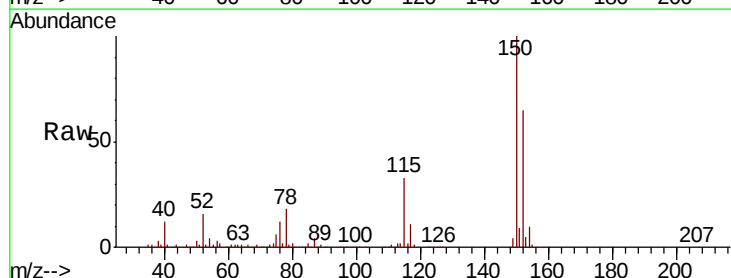
Instrument :
MSVOA_F
ClientSampleId :
OR-03-031819-ARE

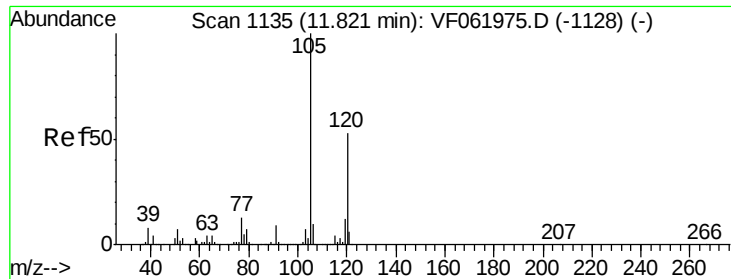
Tgt Ion:106 Resp: 5894
Ion Ratio Lower Upper
106 100
91 201.7 102.3 306.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

Tgt Ion:152 Resp: 140083
Ion Ratio Lower Upper
152 100
115 51.3 27.3 81.9
150 153.4 0.0 316.2

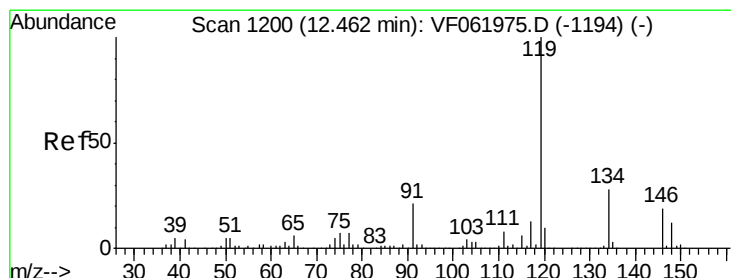
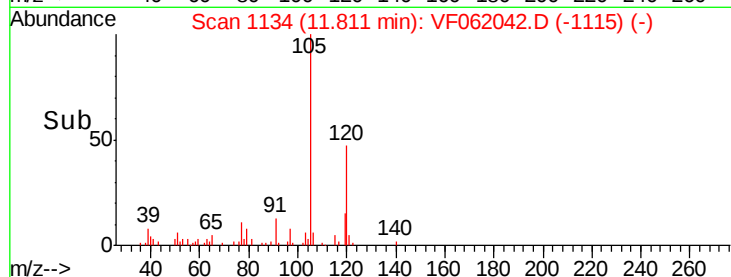
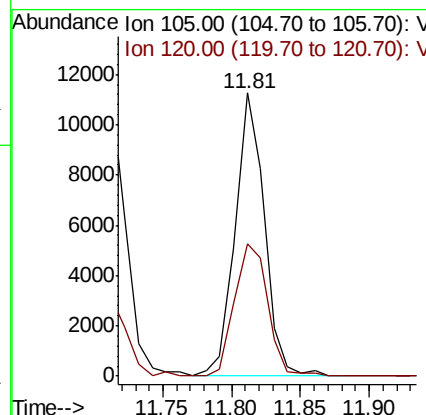
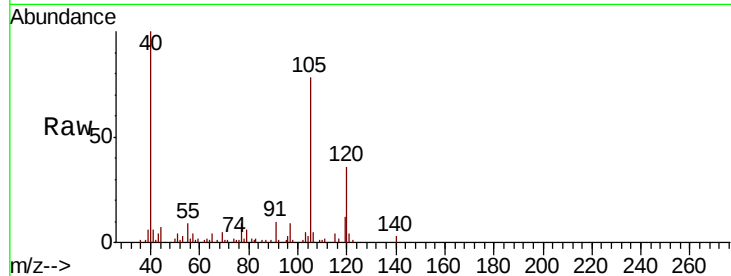




#80
 1,3,5-Trimethylbenzene
 Concen: 2.131 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.01 min
 Lab File: VF062042.D
 Acq: 20 Mar 2019 16:10

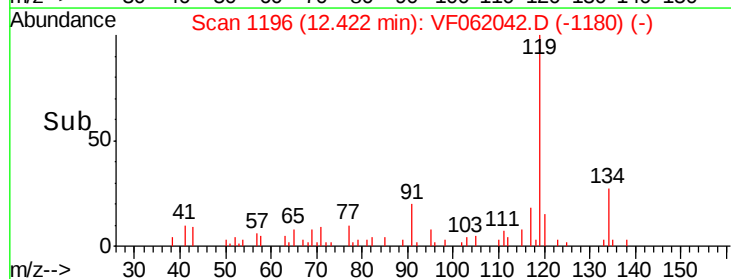
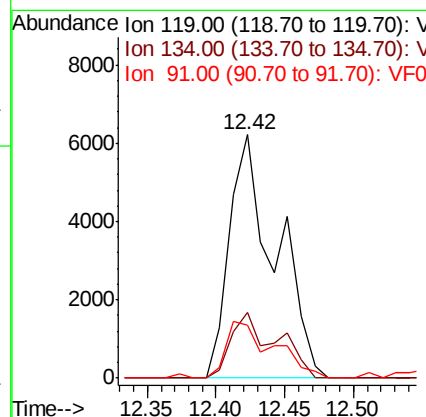
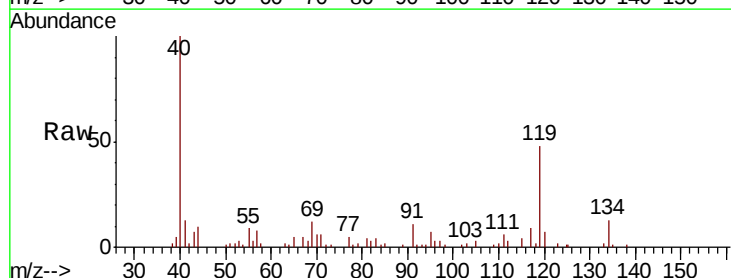
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-031819-ARE

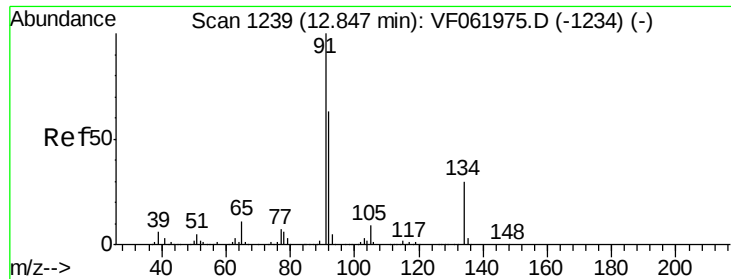
Tgt Ion:105 Resp: 16660
 Ion Ratio Lower Upper
 105 100
 120 46.9 26.6 79.7



#86
 p-Isopropyltoluene
 Concen: 1.564 ug/l
 RT: 12.42 min Scan# 1196
 Delta R.T. -0.04 min
 Lab File: VF062042.D
 Acq: 20 Mar 2019 16:10

Tgt Ion:119 Resp: 14414
 Ion Ratio Lower Upper
 119 100
 134 27.0 13.9 41.7
 91 21.9 10.4 31.1





#89

n-Butylbenzene

Concen: 1.416 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

Instrument :

MSVOA_F

ClientSampleId :

OR-03-031819-ARE

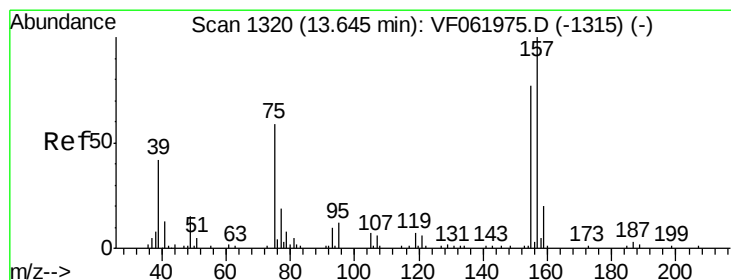
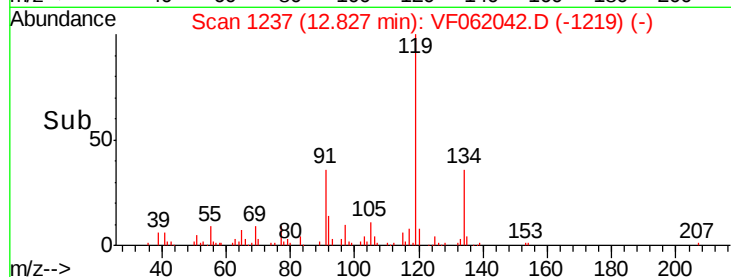
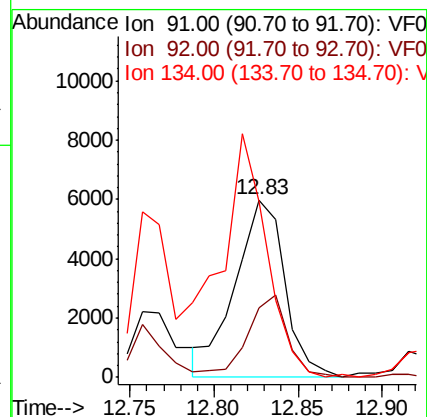
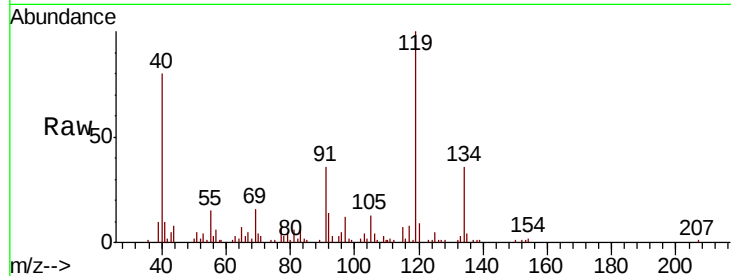
Tgt Ion: 91 Resp: 12261

Ion Ratio Lower Upper

91 100

92 39.0 31.7 95.1

134 99.4 15.1 45.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.976 ug/l

RT: 13.69 min Scan# 1325

Delta R.T. 0.05 min

Lab File: VF062042.D

Acq: 20 Mar 2019 16:10

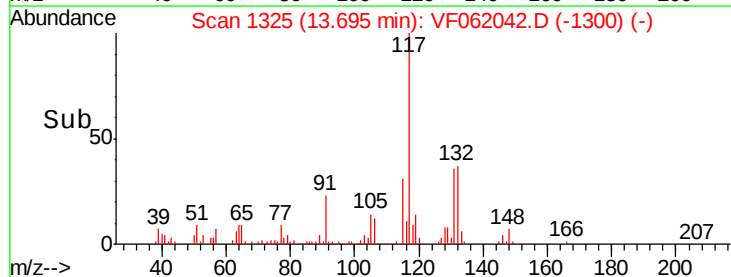
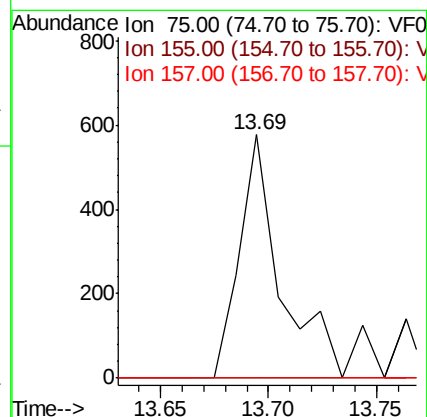
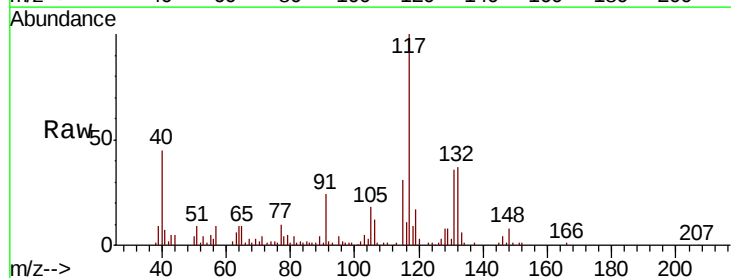
Tgt Ion: 75 Resp: 763

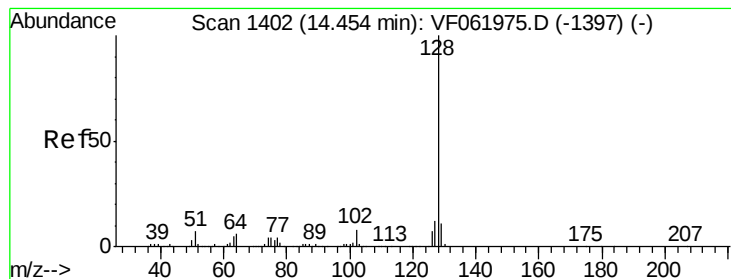
Ion Ratio Lower Upper

75 100

155 0.0 65.0 195.1#

157 0.0 84.7 254.0#





#95
Naphthalene
Concen: 3.728 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF062042.D
Acq: 20 Mar 2019 16:10

Instrument :
MSVOA_F
ClientSampleId :
OR-03-031819-ARE

Tgt Ion:128 Resp: 19049
Ion Ratio Lower Upper
128 100
127 14.4 9.3 13.9#
129 21.2 9.1 13.7#

