

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062104.D
 Acq On : 23 Mar 2019 3:56
 Operator : VA/AP
 Sample : K2061-01
 Misc : 6.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 26524-27245

Quant Time: Mar 23 06:37:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

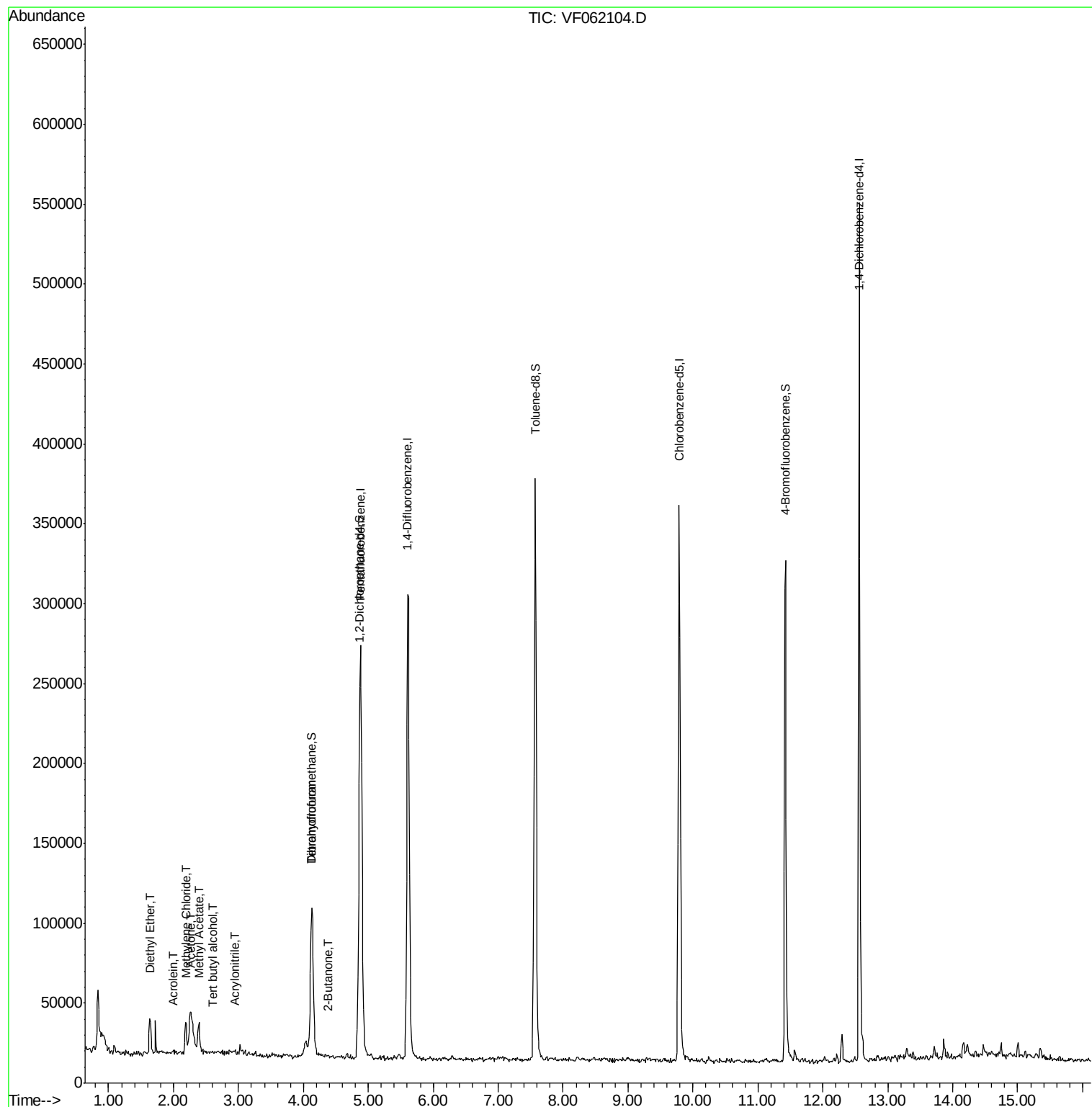
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	232752	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	372965	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.79	117	280468	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	148371	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	90310	52.17	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	104.34%	
35) Dibromofluoromethane	4.13	113	93978	37.25	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	74.50%	
50) Toluene-d8	7.57	98	330277	43.86	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	87.72%	
62) 4-Bromofluorobenzene	11.42	95	131678	45.29	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.58%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	8682	10.905	ug/l	87
11) Tert butyl alcohol	2.60	59	495	5.197	ug/l #	36
13) Acrolein	2.01	56	219	1.912	ug/l #	67
15) Acrylonitrile	2.95	53	548	1.636	ug/l #	52
16) Acetone	2.26	43	27787	76.262	ug/l	97
18) Methyl Acetate	2.38	43	13614	15.663	ug/l #	56
20) Methylene Chloride	2.19	84	9426	1.165	ug/l	88
25) 2-Butanone	4.37	43	2819	3.706	ug/l #	55
29) Tetrahydrofuran	4.12	42	604	1.826	ug/l #	33

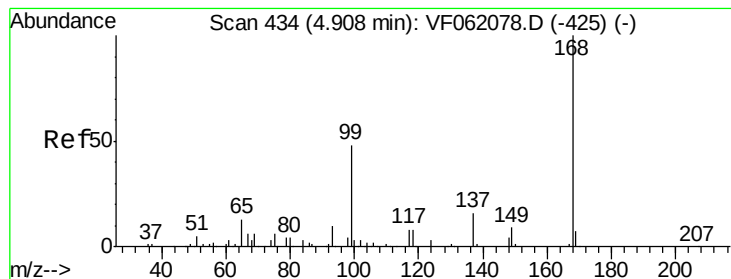
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

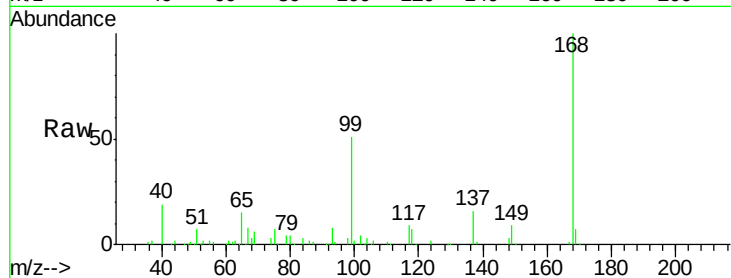
26524-27245

Tot Ion:168 Resp: 232752

Ion Ratio Lower Upper

168 100

99 51.0 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

60000

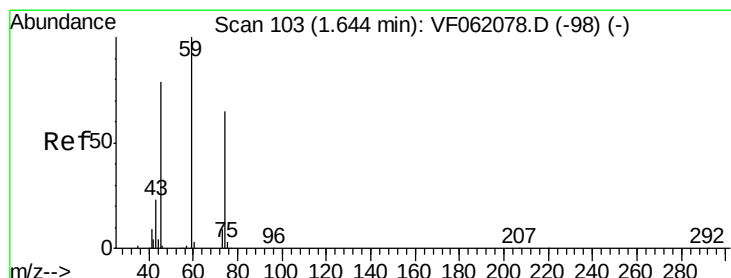
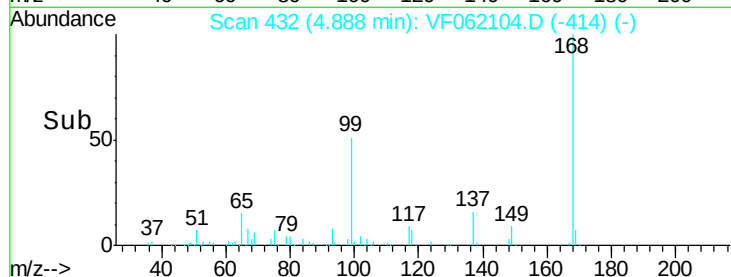
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 10.905 ug/l

RT: 1.64 min Scan# 103

Delta R.T. -0.00 min

Lab File: VF062104.D

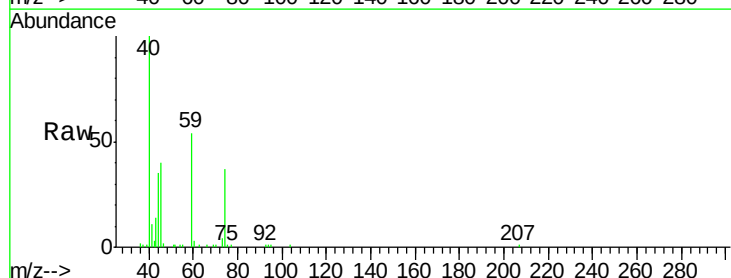
Acq: 23 Mar 2019 3:56

Tgt Ion: 74 Resp: 8682

Ion Ratio Lower Upper

74 100

45 107.8 61.4 184.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.64

6000

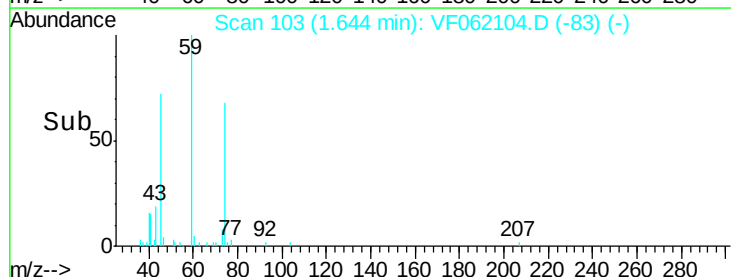
4000

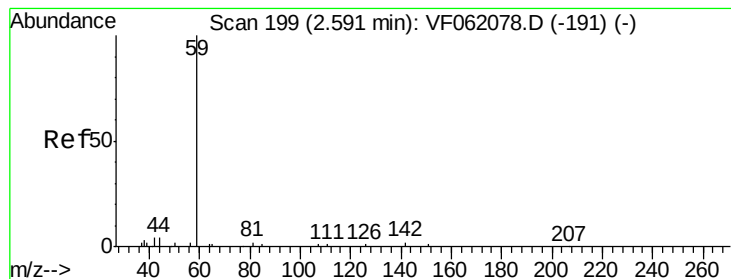
2000

0

Time-->

1.60 1.70



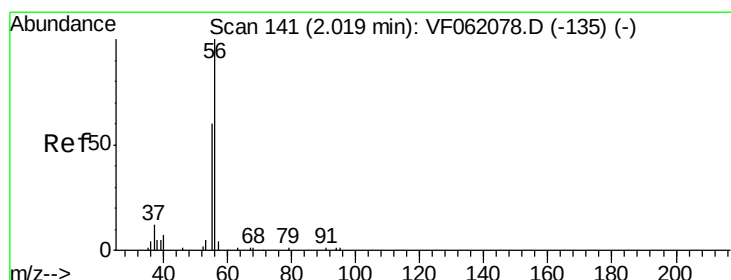
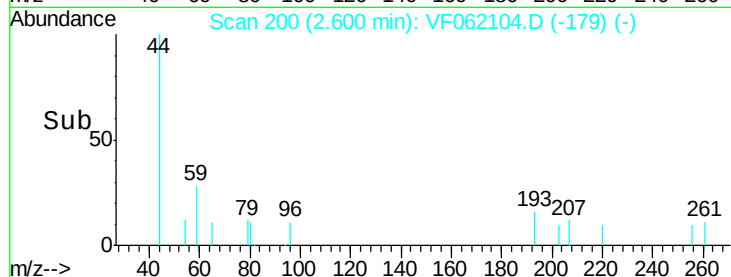
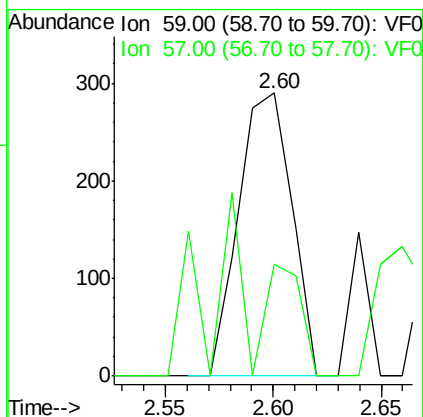
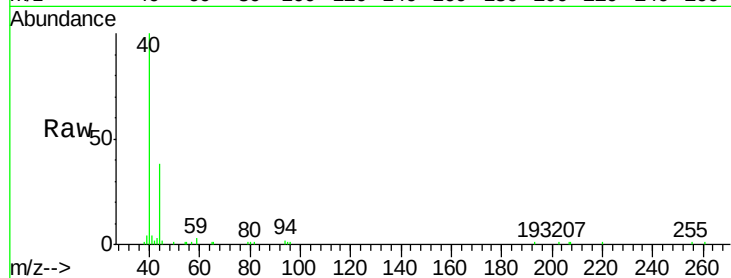


#11

Tert butyl alcohol
 Concen: 5.197 ug/l
 RT: 2.60 min Scan# 200
 Delta R.T. 0.01 min
 Lab File: VF062104.D
 Acq: 23 Mar 2019 3:56

Instrument :
 MSVOA_F
 ClientSampleId :
 26524-27245

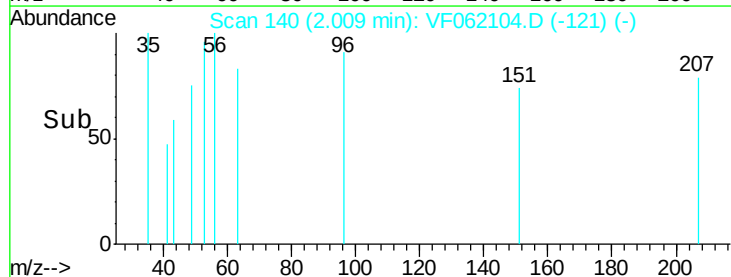
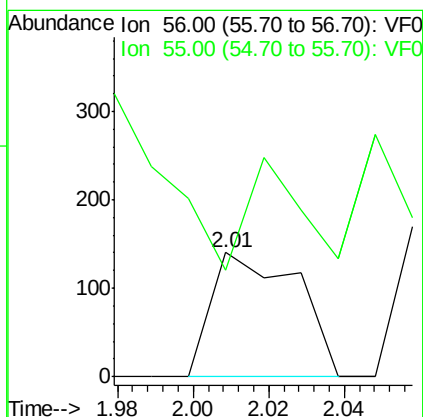
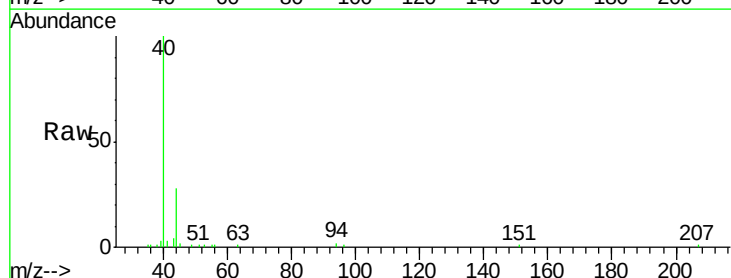
Tot Ion: 59 Resp: 495
 Ion Ratio Lower Upper
 59 100
 57 39.7 11.0 16.4#

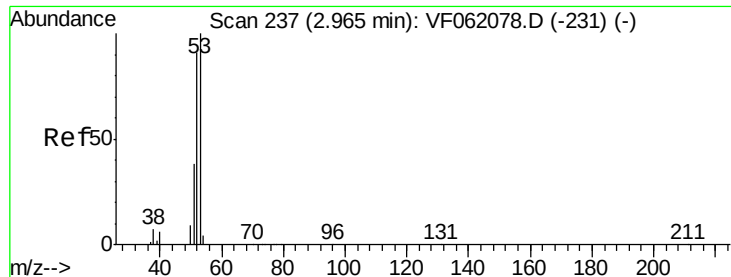


#13

Acrolein
 Concen: 1.912 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. -0.01 min
 Lab File: VF062104.D
 Acq: 23 Mar 2019 3:56

Tgt Ion: 56 Resp: 219
 Ion Ratio Lower Upper
 56 100
 55 86.4 49.0 73.4#





#15

Acrylonitrile

Concen: 1.636 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

26524-27245

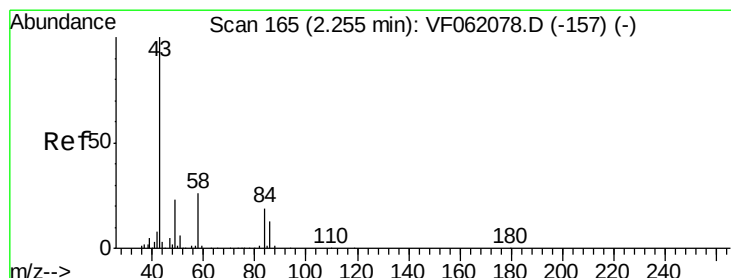
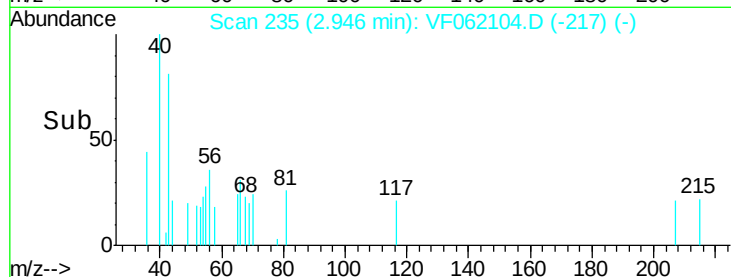
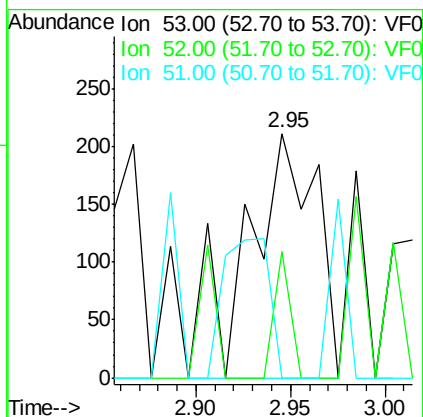
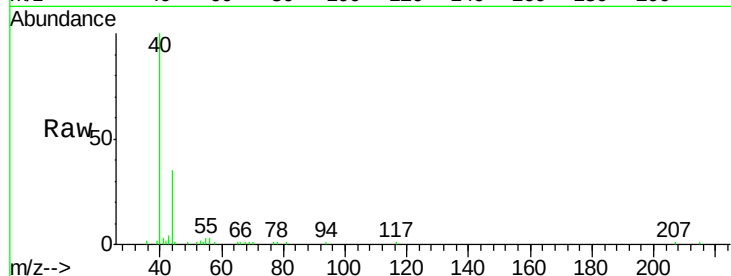
Tot Ion: 53 Resp: 548

Ion Ratio Lower Upper

53 100

52 51.7 72.3 108.5#

51 0.0 30.4 45.6#



#16

Acetone

Concen: 76.262 ug/l

RT: 2.26 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF062104.D

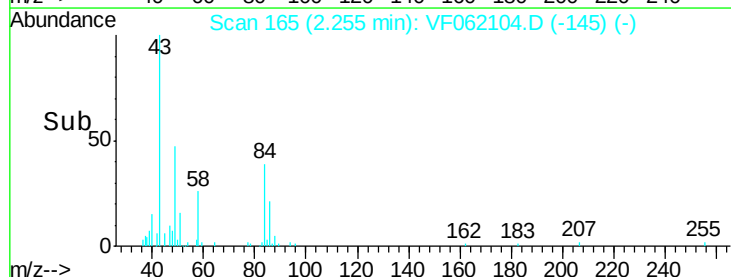
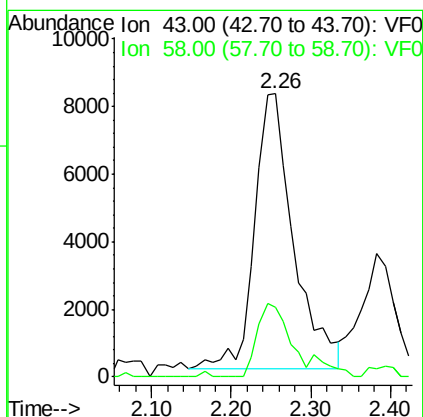
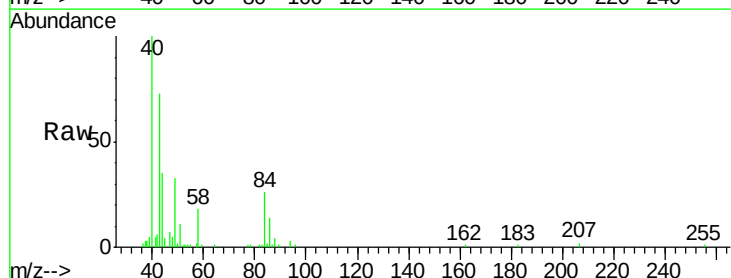
Acq: 23 Mar 2019 3:56

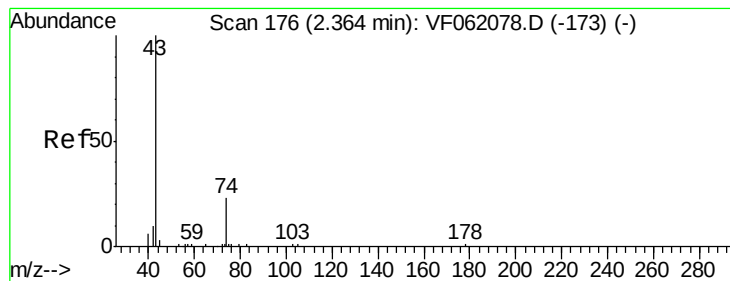
Tgt Ion: 43 Resp: 27787

Ion Ratio Lower Upper

43 100

58 24.7 20.8 31.2





#18

Methyl Acetate

Concen: 15.663 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

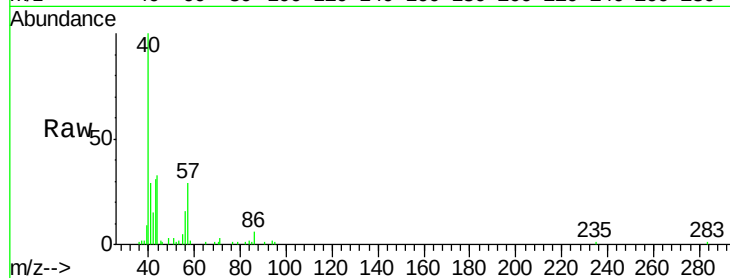
26524-27245

Tot Ion: 43 Resp: 13614

Ion Ratio Lower Upper

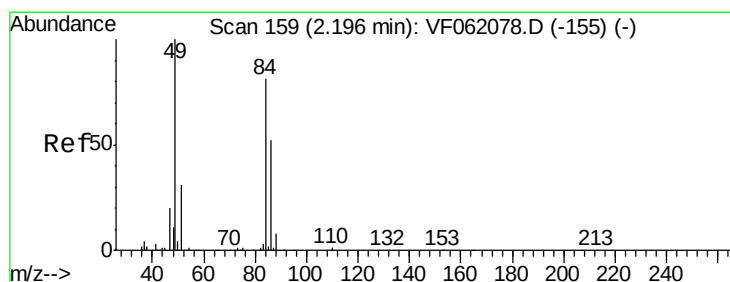
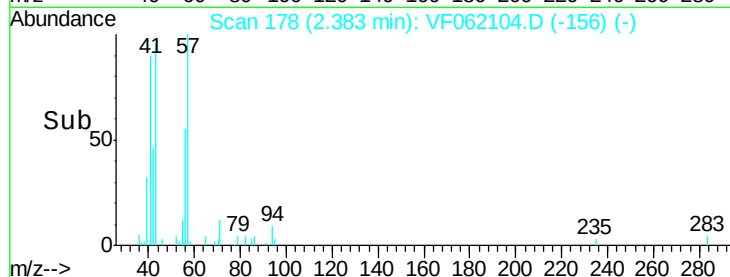
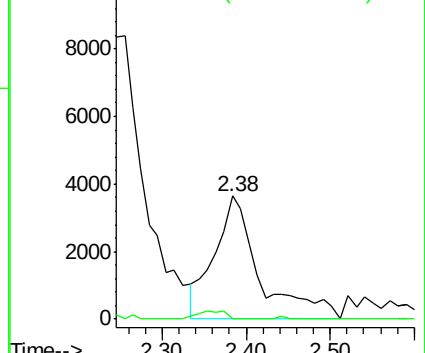
43 100

74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#20

Methylene Chloride

Concen: 1.165 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Tgt Ion: 84 Resp: 9426

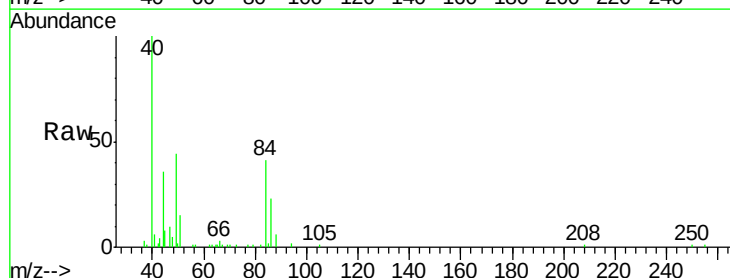
Ion Ratio Lower Upper

84 100

49 106.5 100.4 150.6

51 37.3 31.0 46.6

86 56.3 51.3 76.9

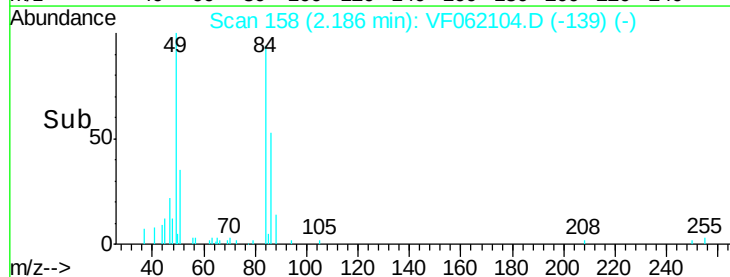
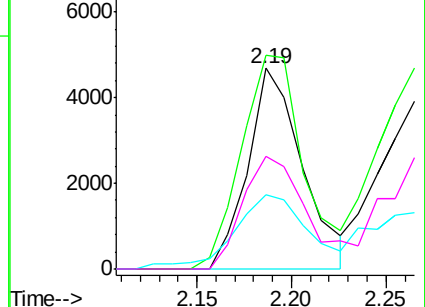


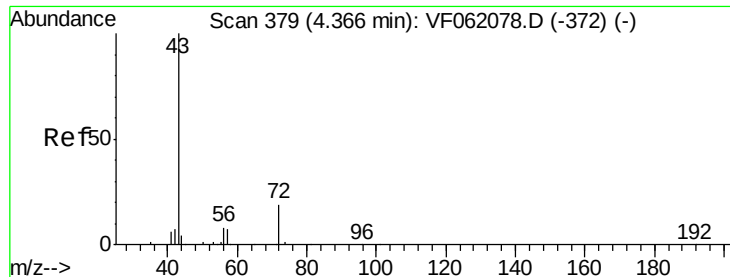
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 3.706 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

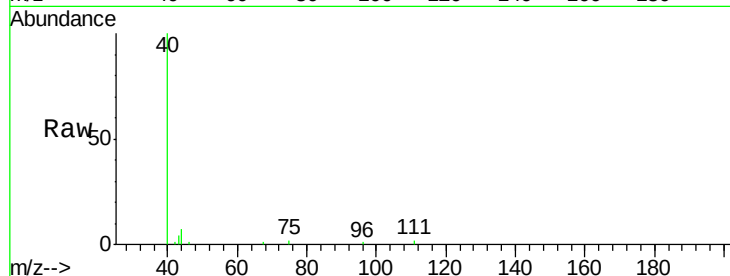
26524-27245

Tot Ion: 43 Resp: 2819

Ion Ratio Lower Upper

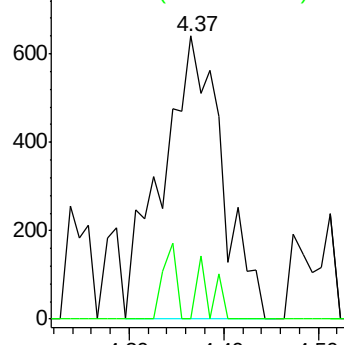
43 100

72 0.0 16.7 25.1#

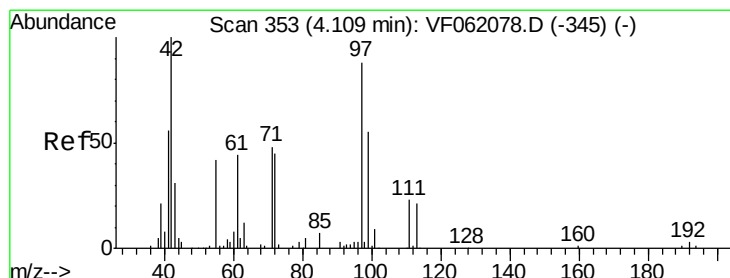
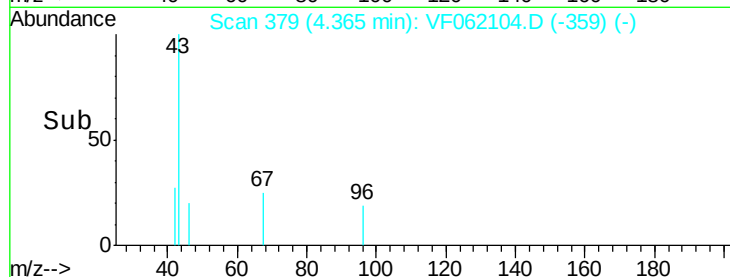


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 1.826 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

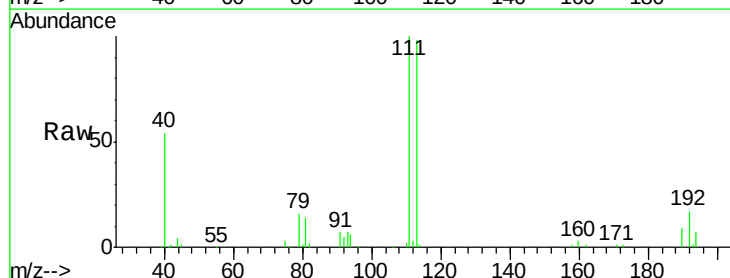
Tgt Ion: 42 Resp: 604

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

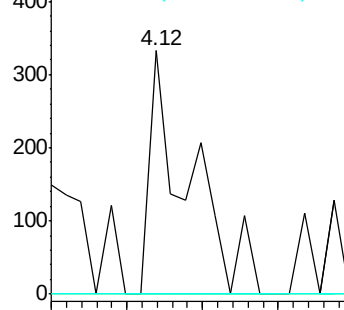
71 0.0 35.0 52.4#



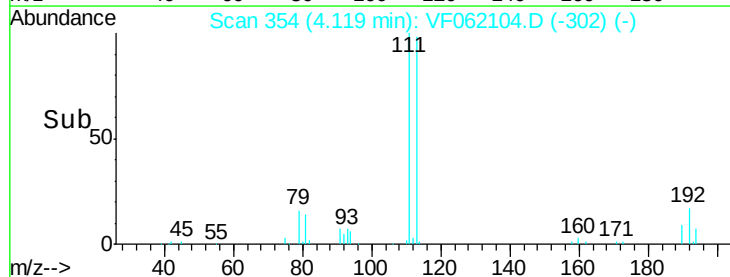
Abundance Ion 42.00 (41.70 to 42.70): VF0

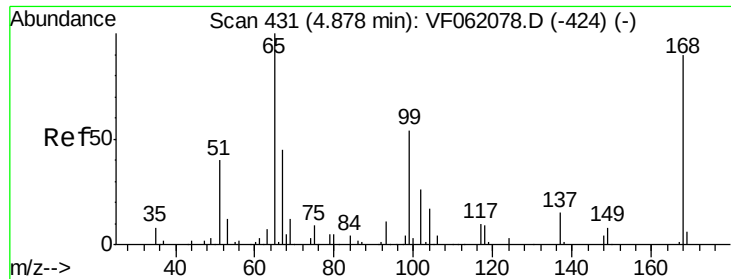
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->

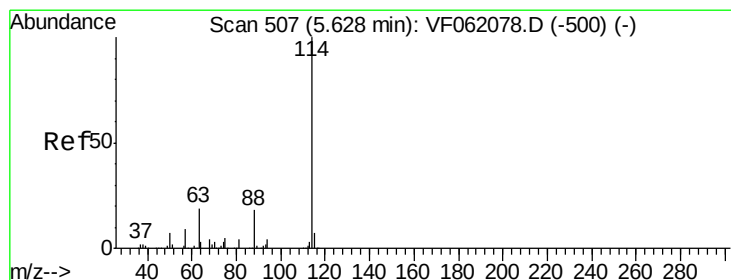
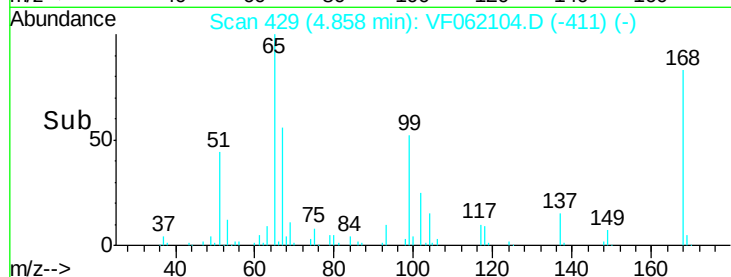
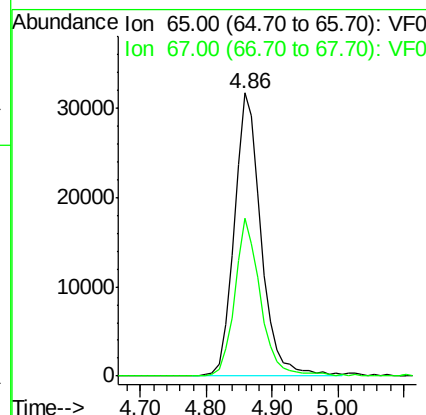
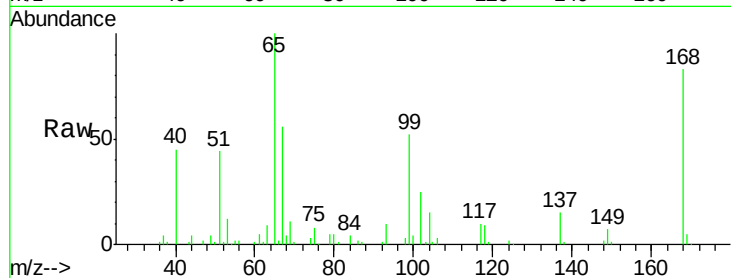




#33
 1,2-Dichloroethane-d4
 Concen: 52.165 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.02 min
 Lab File: VF062104.D
 Acq: 23 Mar 2019 3:56

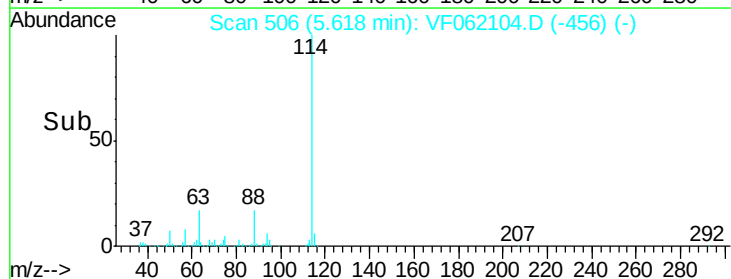
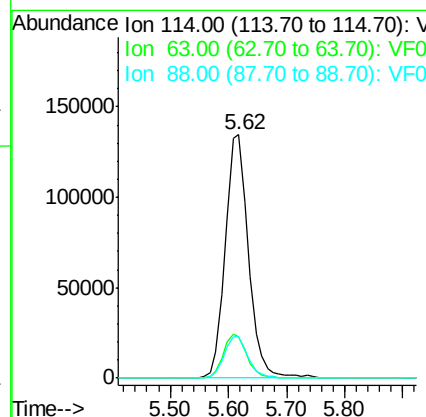
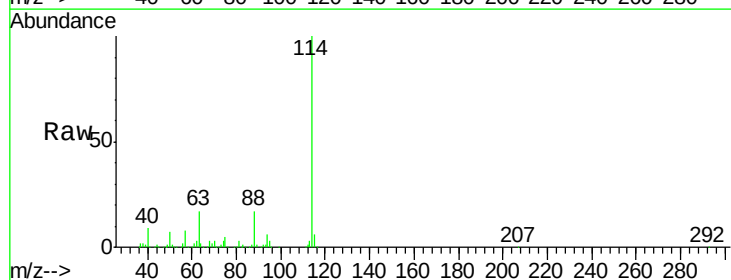
Instrument :
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 26524-27245

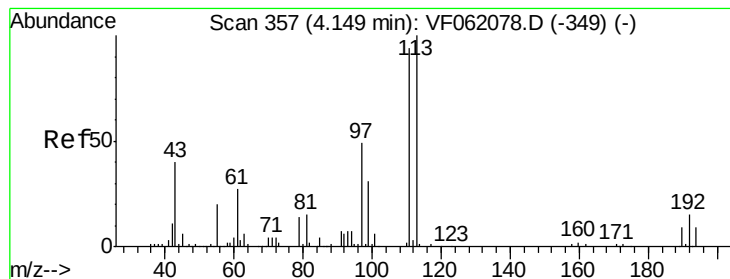
Tot Ion: 65 Resp: 90310
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.01 min
 Lab File: VF062104.D
 Acq: 23 Mar 2019 3:56

Tgt Ion: 114 Resp: 372965
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 37.8
 88 17.2 0.0 36.4





#35

Dibromofluoromethane

Concen: 37.249 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

26524-27245

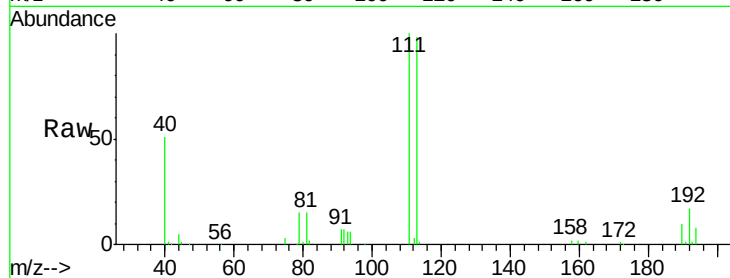
Tot Ion:113 Resp: 93978

Ion Ratio Lower Upper

113 100

111 102.0 75.4 113.0

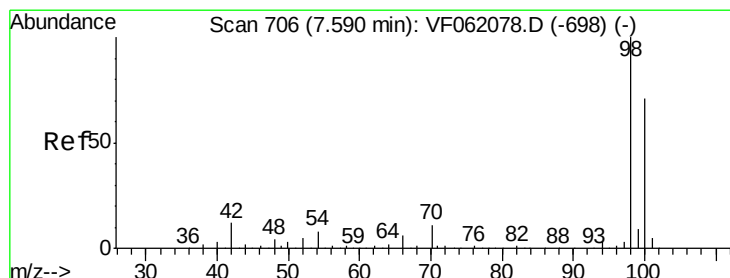
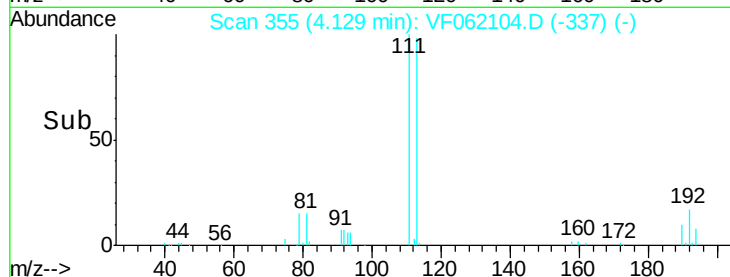
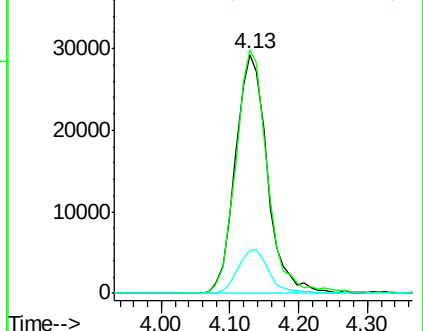
192 17.8 12.3 18.5



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#50

Toluene-d8

Concen: 43.855 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF062104.D

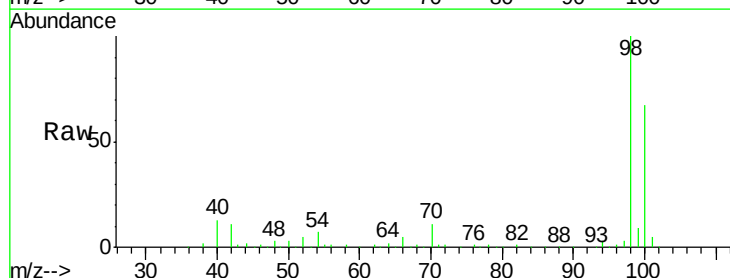
Acq: 23 Mar 2019 3:56

Tgt Ion: 98 Resp: 330277

Ion Ratio Lower Upper

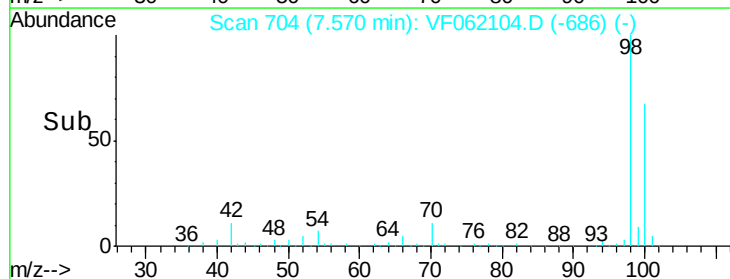
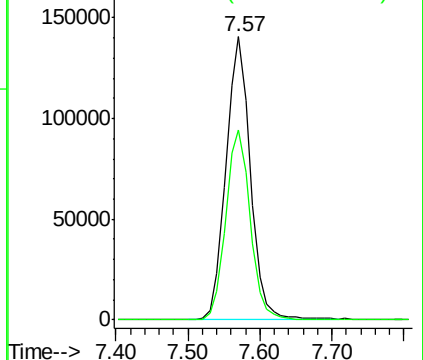
98 100

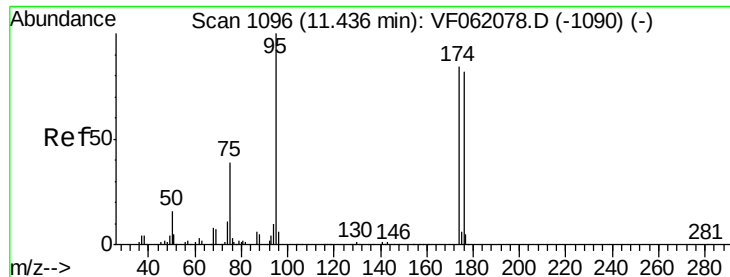
100 67.0 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#62

4-Bromofluorobenzene

Concen: 45.290 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

26524-27245

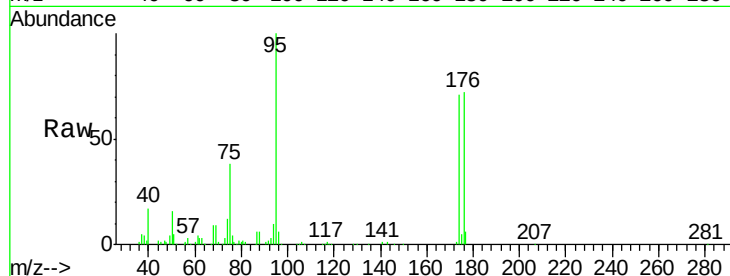
Tot Ion: 95 Resp: 131678

Ion Ratio Lower Upper

95 100

174 70.6 0.0 168.2

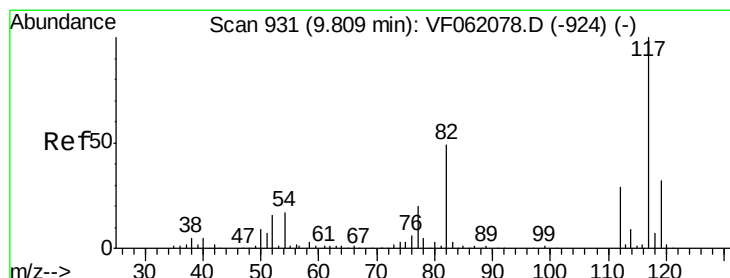
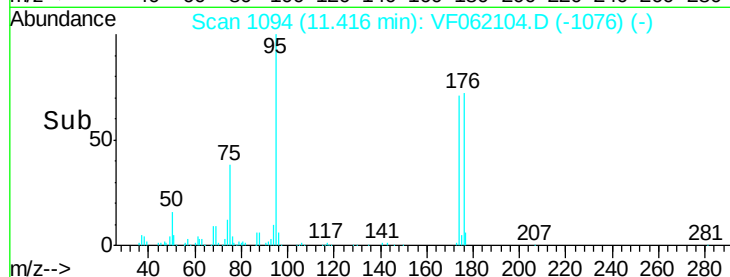
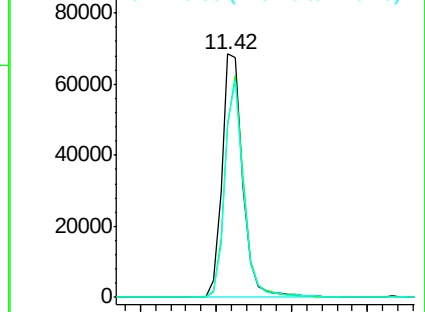
176 71.6 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.02 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

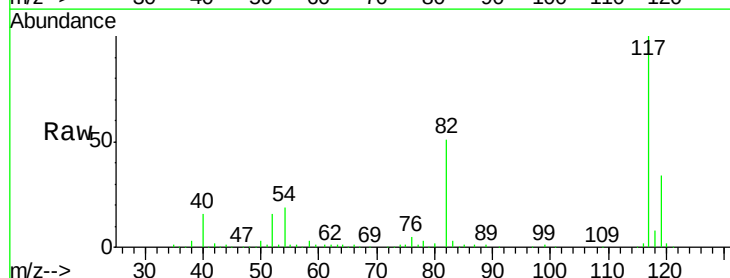
Tgt Ion: 117 Resp: 280468

Ion Ratio Lower Upper

117 100

82 51.4 39.2 58.8

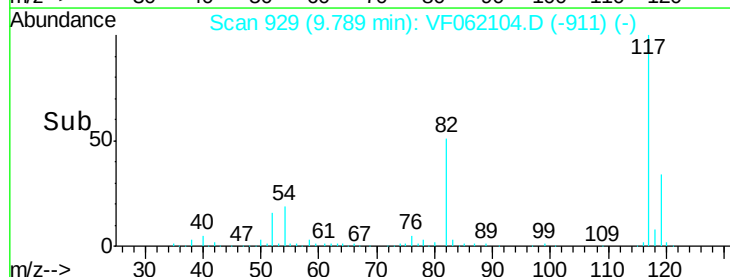
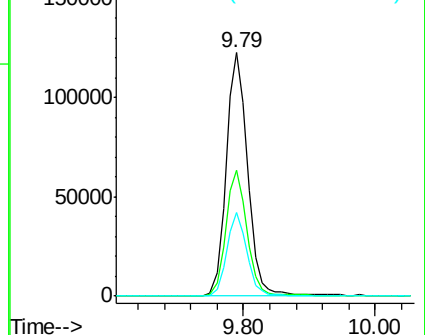
119 34.2 25.4 38.2

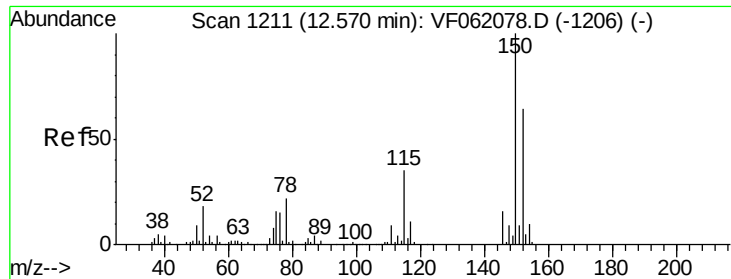


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF062104.D

Acq: 23 Mar 2019 3:56

Instrument :

MSVOA_F

ClientSampleId :

26524-27245

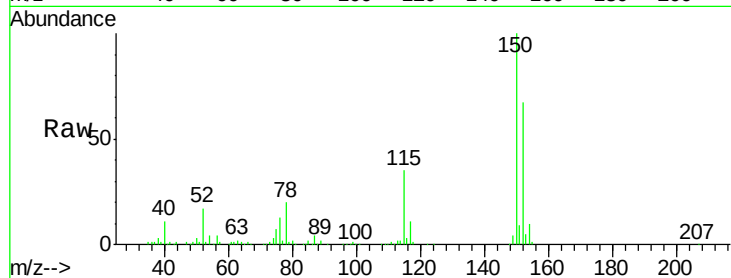
Tot Ion:152 Resp: 148371

Ion Ratio Lower Upper

152 100

115 52.0 27.7 83.1

150 148.3 0.0 313.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

