

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062116.D
 Acq On : 23 Mar 2019 14:41
 Operator : VA/AP
 Sample : K2045-01
 Misc : 5.31g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:27:55 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	4.87	168	202084	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	289972	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	230113	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	116065	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	65987	43.90	ug/l	-0.03
Spiked Amount			Recovery	=	87.80%	
35) Dibromofluoromethane	4.12	113	92106	46.96	ug/l	-0.03
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	7.55	98	247240	42.23	ug/l	-0.04
Spiked Amount			Recovery	=	84.46%	
62) 4-Bromofluorobenzene	11.42	95	91484	40.47	ug/l	-0.02
Spiked Amount			Recovery	=	80.94%	

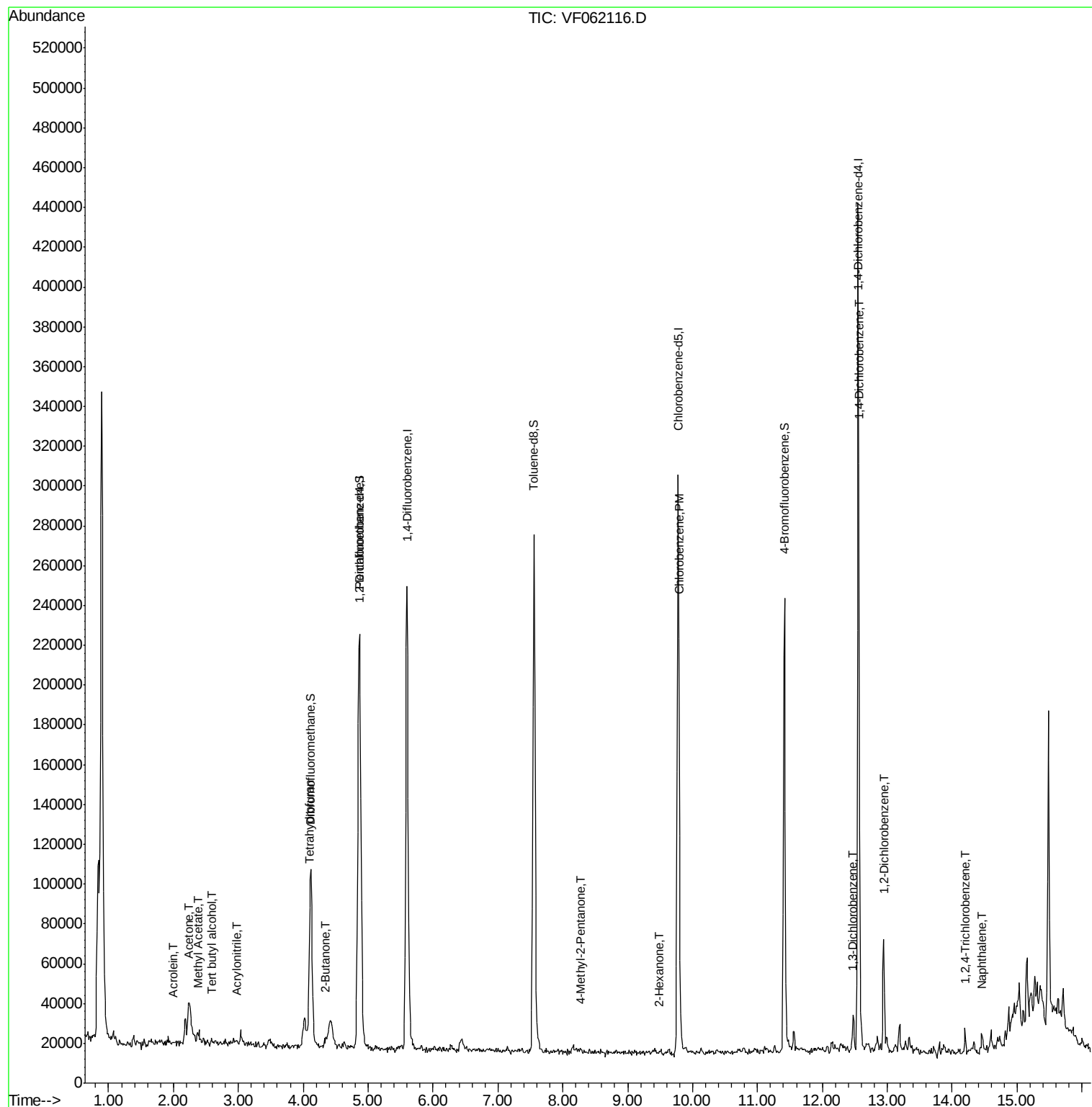
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	298	3.603	ug/l #	66
13) Acrolein	1.99	56	355	3.570	ug/l #	1
15) Acrylonitrile	2.98	53	996	3.425	ug/l #	30
16) Acetone	2.24	43	28055	88.682	ug/l	99
18) Methyl Acetate	2.36	43	3160	4.187	ug/l #	56
25) 2-Butanone	4.35	43	9220	13.961	ug/l	99
29) Tetrahydrofuran	4.09	42	1196	4.165	ug/l #	65
51) 4-Methyl-2-Pentanone	8.27	43	1810	1.850	ug/l #	80
59) 2-Hexanone	9.49	43	1899	2.648	ug/l	81
65) Chlorobenzene	9.80	112	14444	3.355	ug/l	95
87) 1,3-Dichlorobenzene	12.48	146	6992	1.886	ug/l	84
88) 1,4-Dichlorobenzene	12.57	146	11280	3.118	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	21955	6.307	ug/l	97
93) 1,2,4-Trichlorobenzene	14.20	180	3401	1.402	ug/l	71
95) Naphthalene	14.45	128	4867	1.145	ug/l #	94

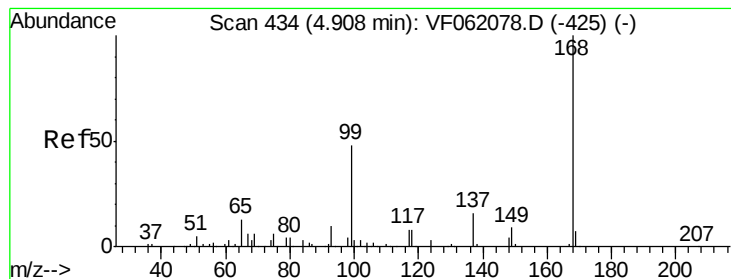
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

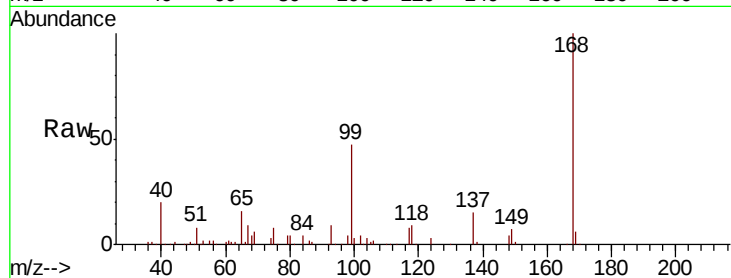
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 202084

Ion Ratio Lower Upper

168 100

99 47.1 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

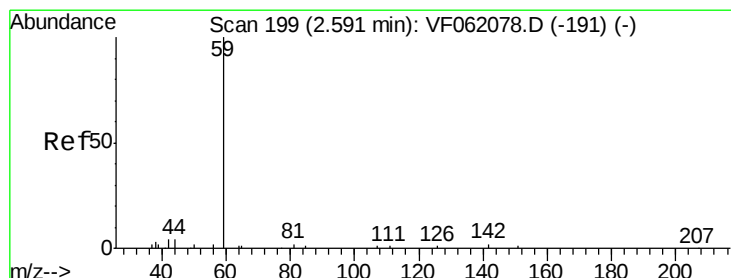
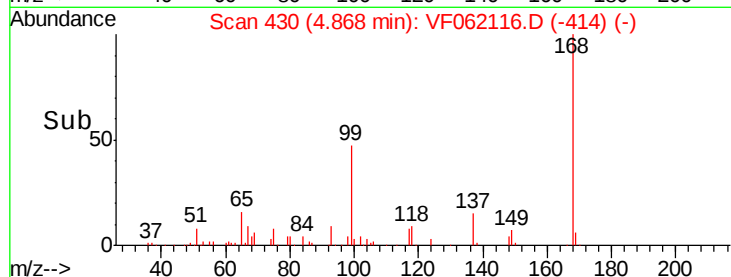
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 3.603 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.01 min

Lab File: VF062116.D

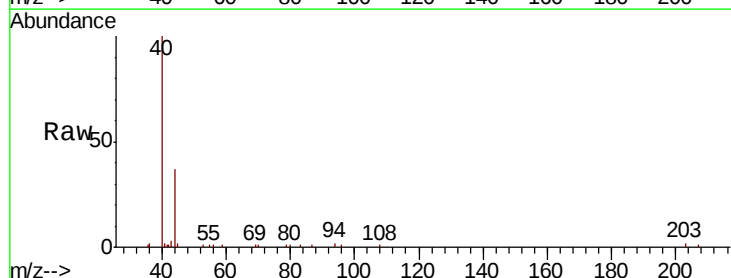
Acq: 23 Mar 2019 14:41

Tgt Ion: 59 Resp: 298

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

200

150

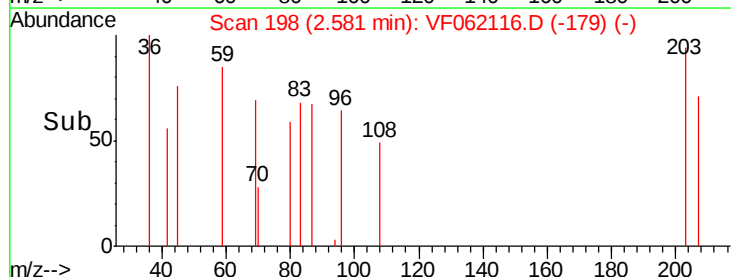
100

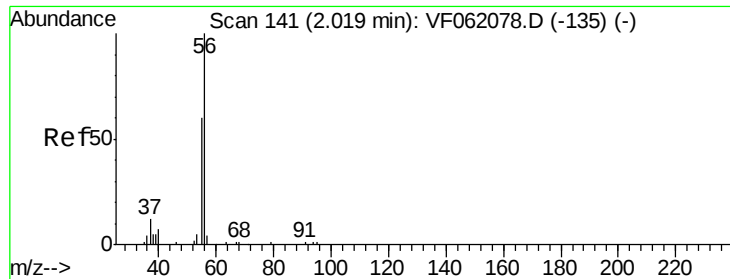
50

0

Time-->

2.55 2.60





#13

Acrolein

Concen: 3.570 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

Instrument :

MSVOA_F

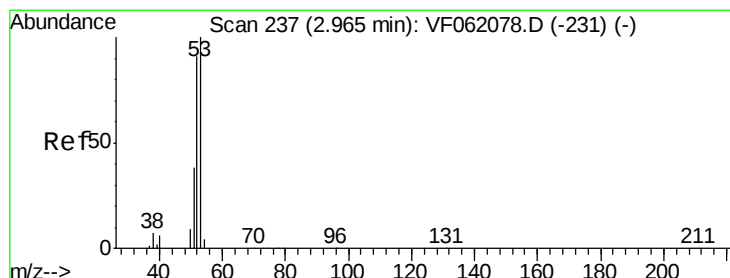
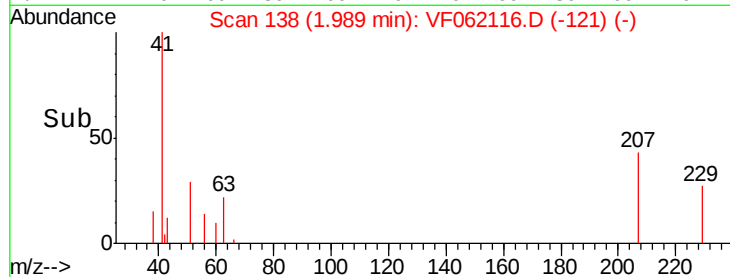
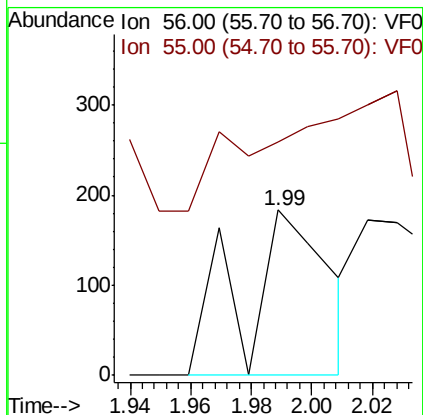
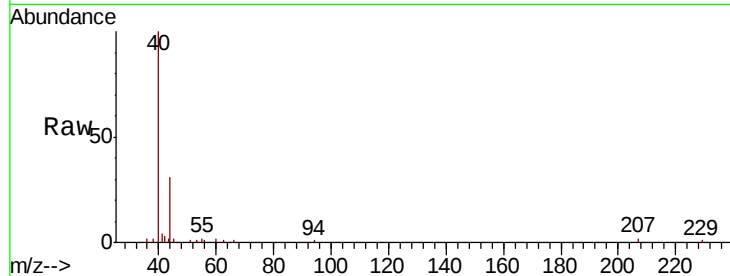
ClientSampleId :

Tot Ion: 56 Resp: 355

Ion Ratio Lower Upper

56 100

55 141.5 49.0 73.4#



#15

Acrylonitrile

Concen: 3.425 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.01 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

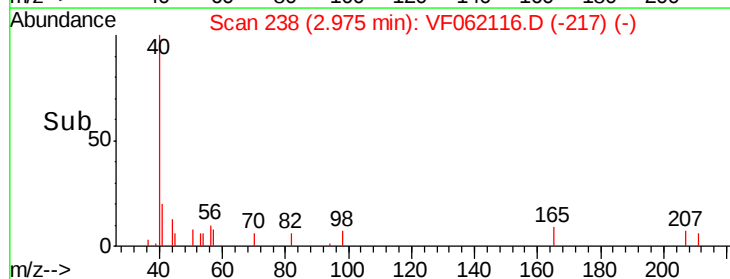
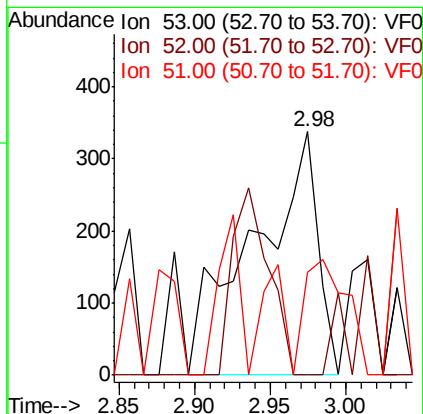
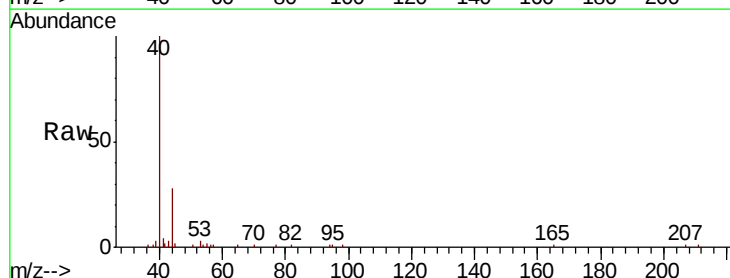
Tgt Ion: 53 Resp: 996

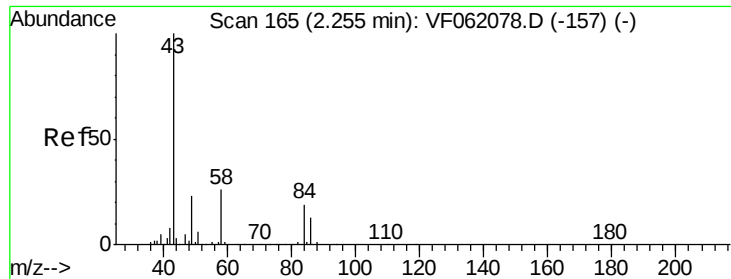
Ion Ratio Lower Upper

53 100

52 0.0 72.3 108.5#

51 42.3 30.4 45.6





#16

Acetone

Concen: 88.682 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

Instrument :

MSVOA_F

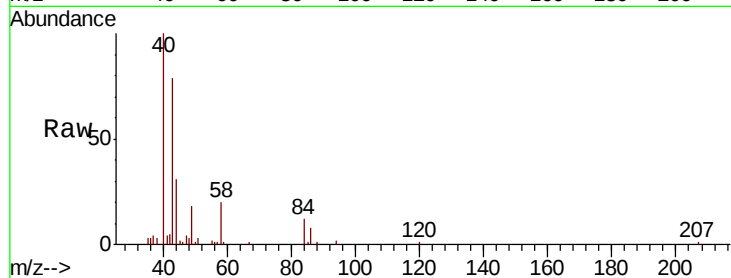
ClientSampleId :

Tot Ion: 43 Resp: 28055

Ion Ratio Lower Upper

43 100

58 25.7 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

10000

8000

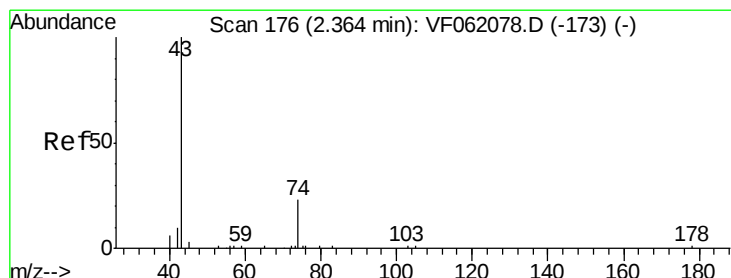
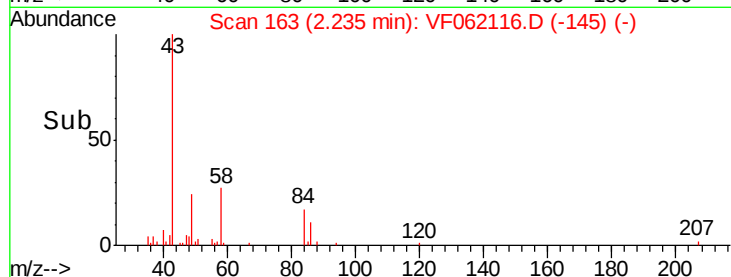
6000

4000

2000

0

Time--> 2.15 2.20 2.25 2.30



#18

Methyl Acetate

Concen: 4.187 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF062116.D

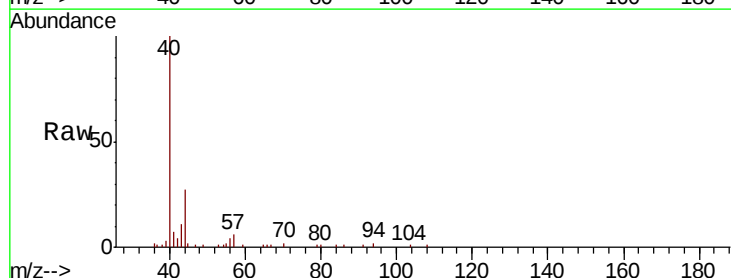
Acq: 23 Mar 2019 14:41

Tgt Ion: 43 Resp: 3160

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

2.36

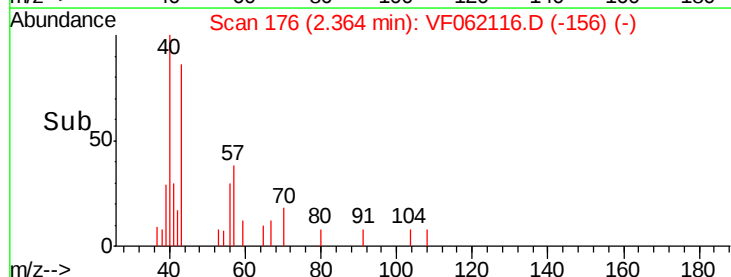
1500

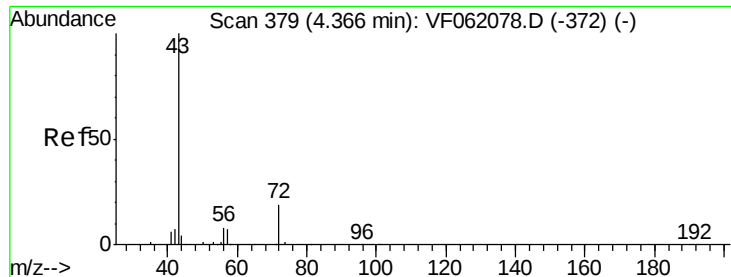
1000

500

0

Time--> 2.30 2.35 2.40 2.45





#25

2-Butanone

Concen: 13.961 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

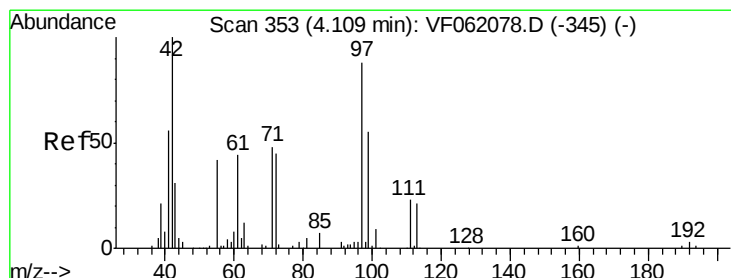
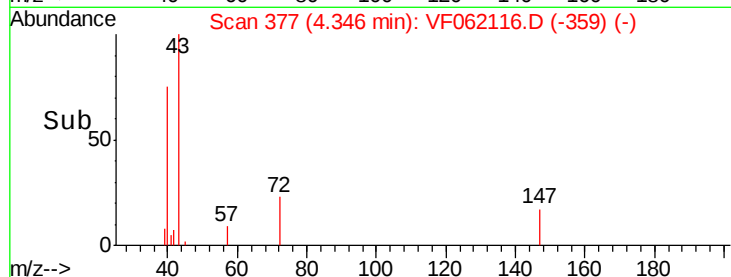
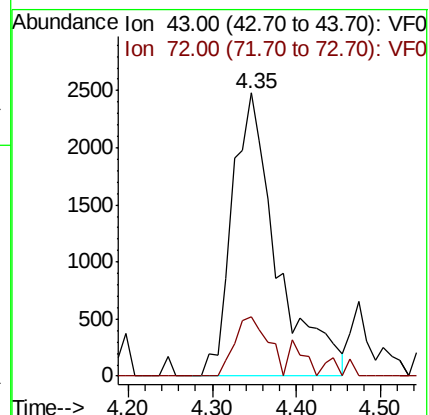
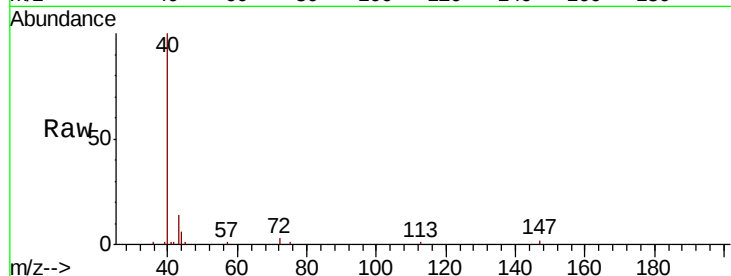
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 9220

Ion Ratio Lower Upper

43 100

72 21.1 16.7 25.1



#29

Tetrahydrofuran

Concen: 4.165 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

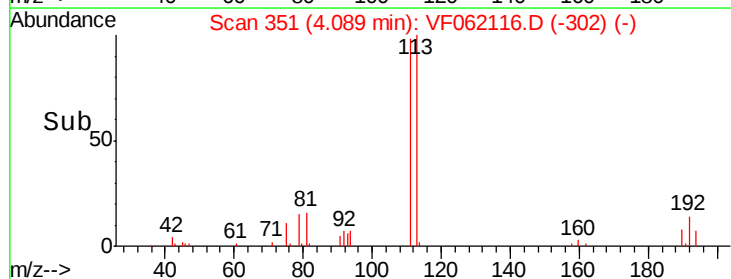
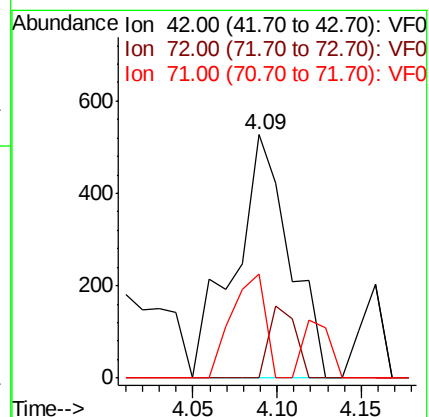
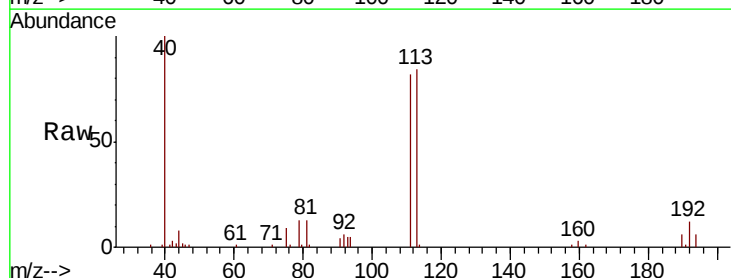
Tgt Ion: 42 Resp: 1196

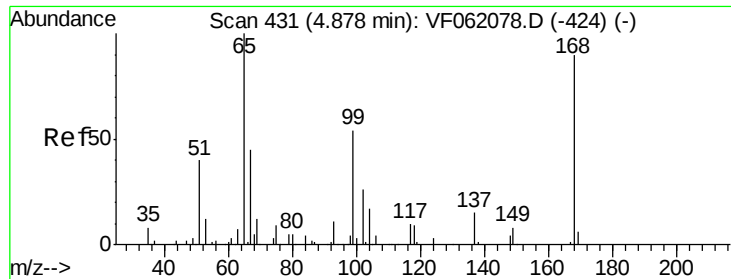
Ion Ratio Lower Upper

42 100

72 14.0 33.3 49.9#

71 26.2 35.0 52.4#





#33

1,2-Dichloroethane-d4

Concen: 43.900 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

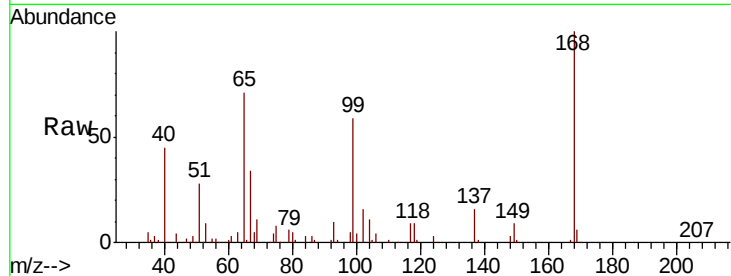
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 65987

Ion Ratio Lower Upper

65 100

67 48.3 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

25000

20000

15000

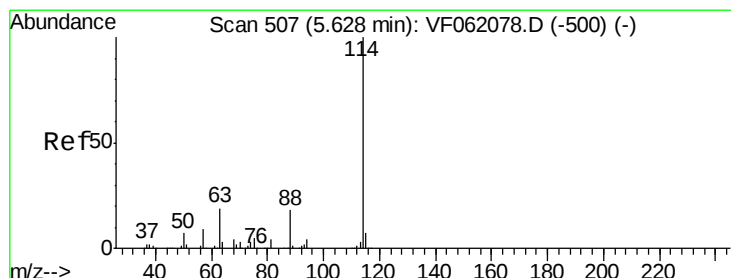
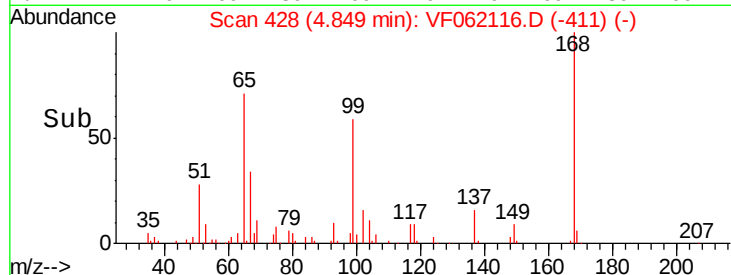
10000

5000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.03 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

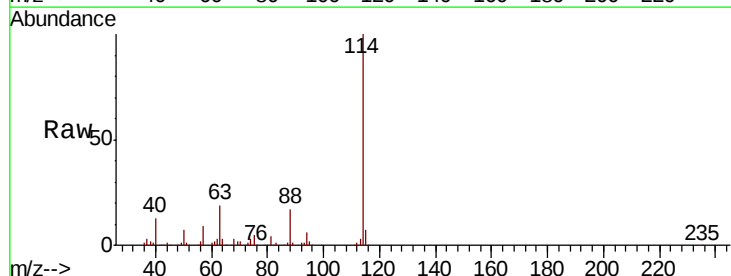
Tgt Ion: 114 Resp: 289972

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.8

88 17.5 0.0 36.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

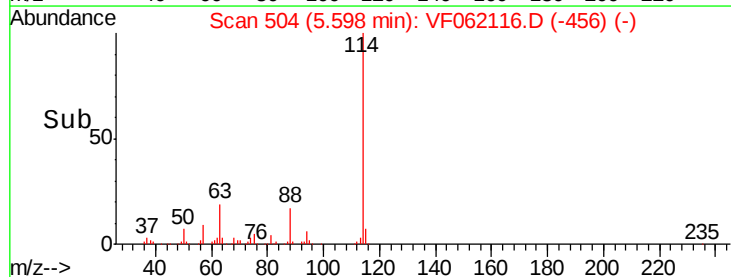
100000

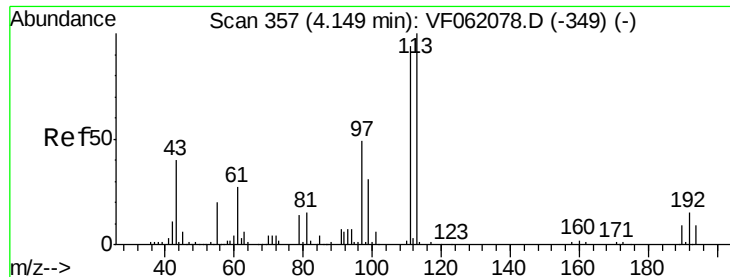
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->

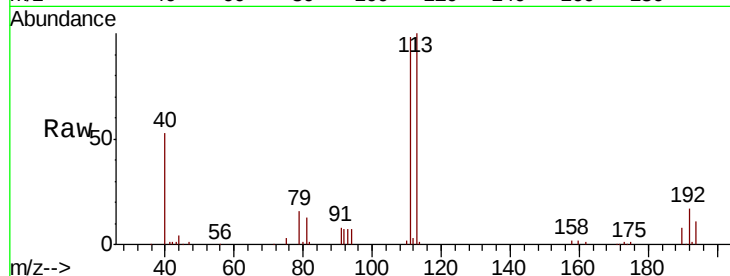




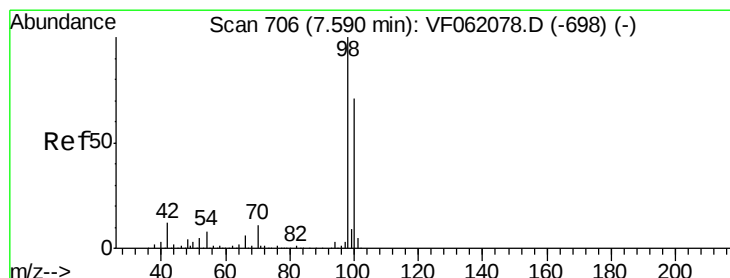
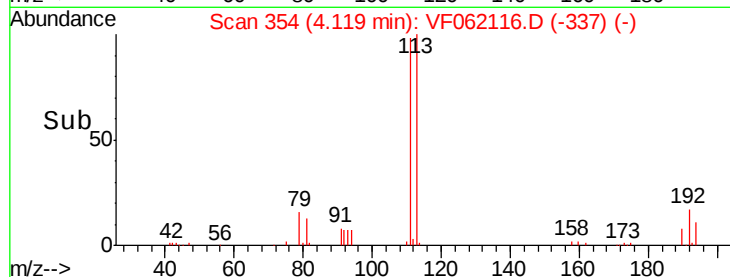
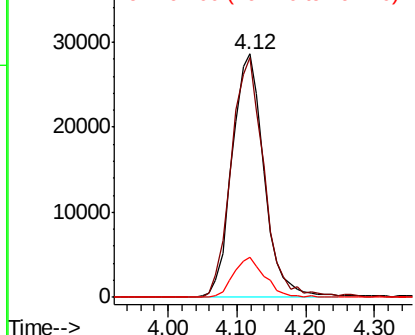
#35
 Dibromofluoromethane
 Concen: 46.956 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:113 Resp: 92106
 Ion Ratio Lower Upper
 113 100
 111 98.3 75.4 113.0
 192 17.6 12.3 18.5

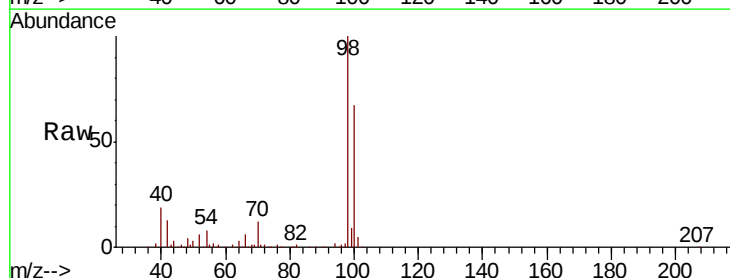


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

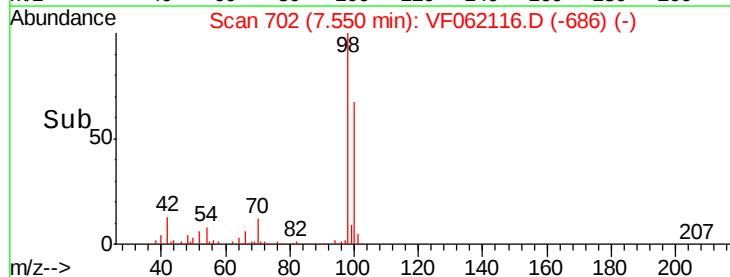
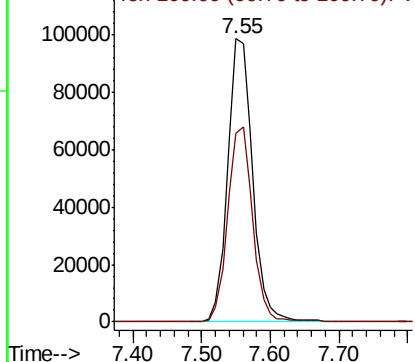


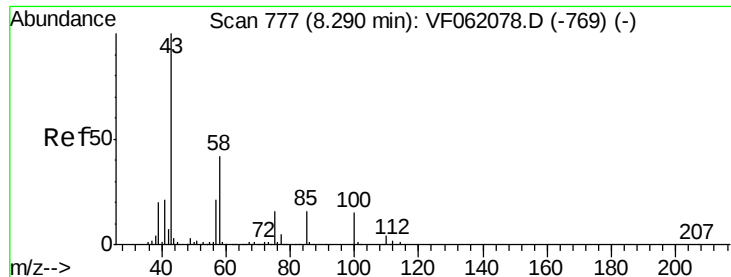
#50
 Toluene-d8
 Concen: 42.225 ug/l
 RT: 7.55 min Scan# 702
 Delta R.T. -0.04 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

Tgt Ion: 98 Resp: 247240
 Ion Ratio Lower Upper
 98 100
 100 66.8 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.850 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

Instrument :

MSVOA_F

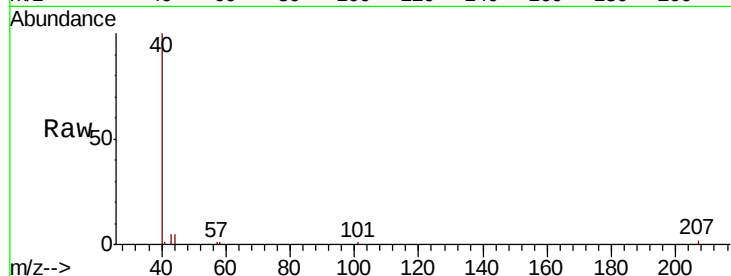
ClientSampleId :

Tot Ion: 43 Resp: 1810

Ion Ratio Lower Upper

43 100

58 29.4 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

600

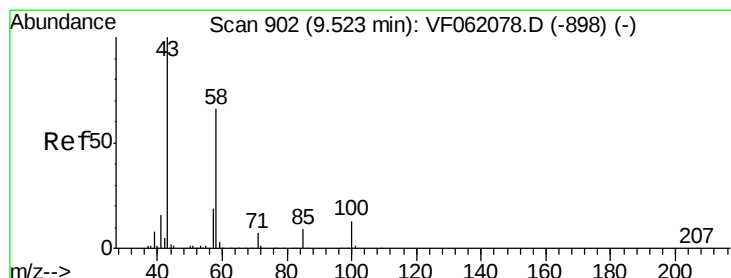
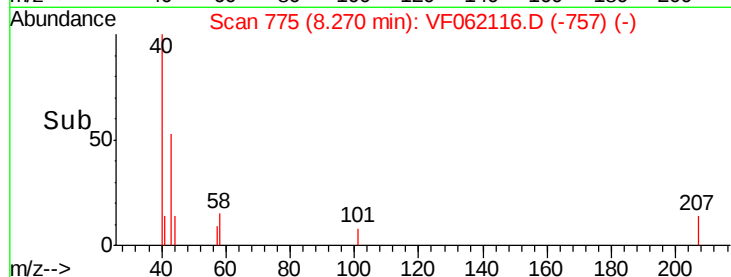
400

200

0

8.20 8.25 8.30

Time-->



#59

2-Hexanone

Concen: 2.648 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF062116.D

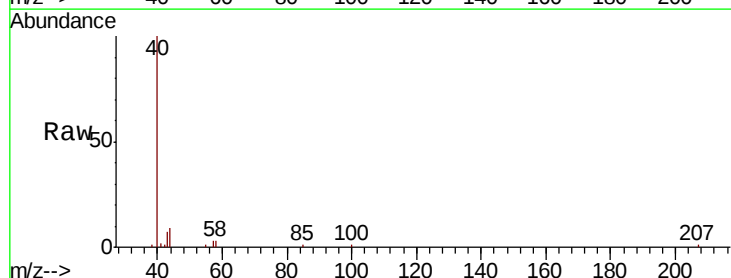
Acq: 23 Mar 2019 14:41

Tgt Ion: 43 Resp: 1899

Ion Ratio Lower Upper

43 100

58 43.9 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

800

600

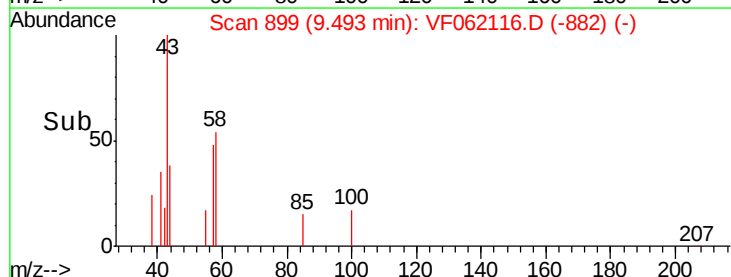
400

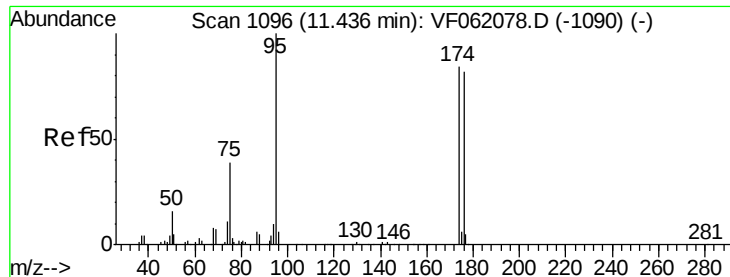
200

0

9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 40.472 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

Instrument :

MSVOA_F

ClientSampleId :

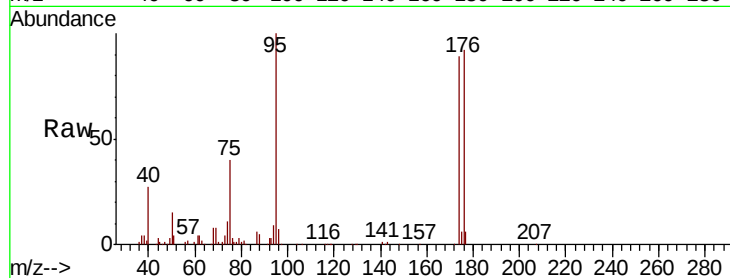
Tot Ion: 95 Resp: 91484

Ion Ratio Lower Upper

95 100

174 88.6 0.0 168.2

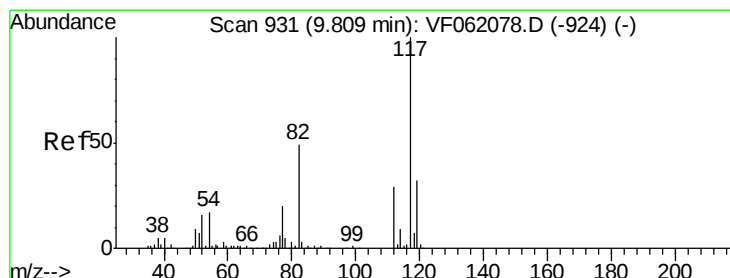
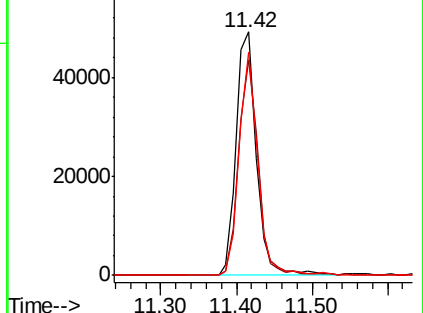
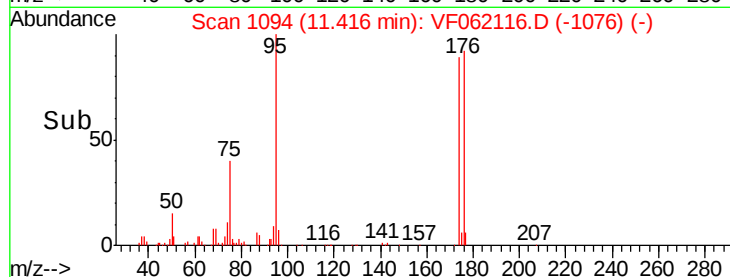
176 91.6 0.0 164.2



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: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF062116.D

Acq: 23 Mar 2019 14:41

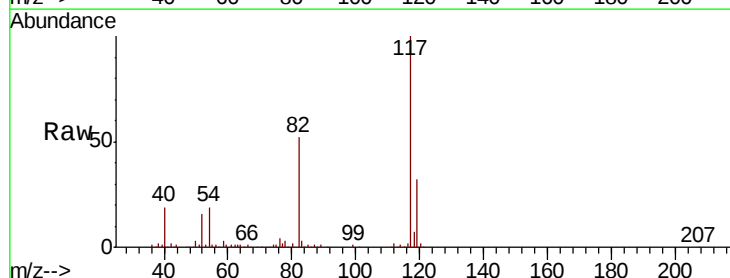
Tgt Ion: 117 Resp: 230113

Ion Ratio Lower Upper

117 100

82 51.8 39.2 58.8

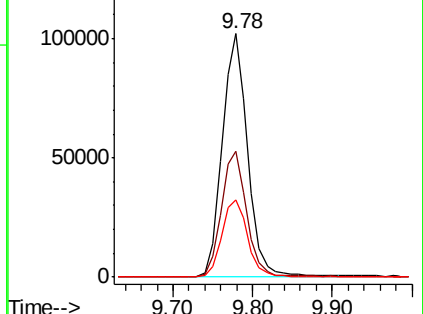
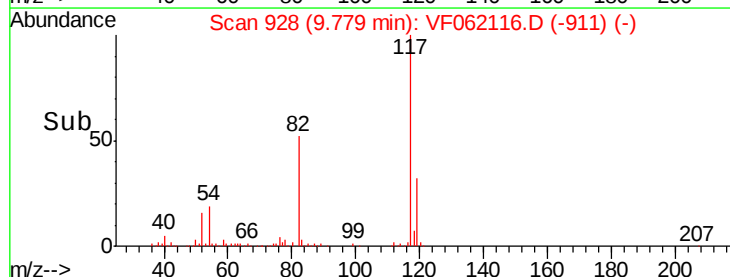
119 31.9 25.4 38.2

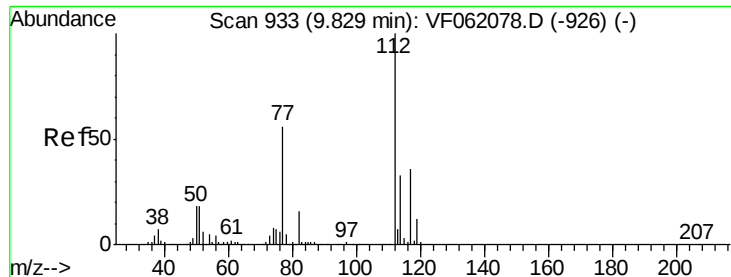


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

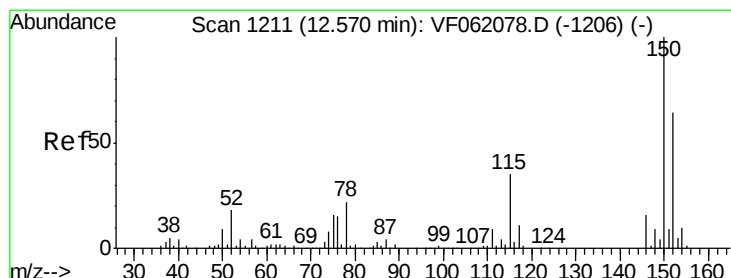
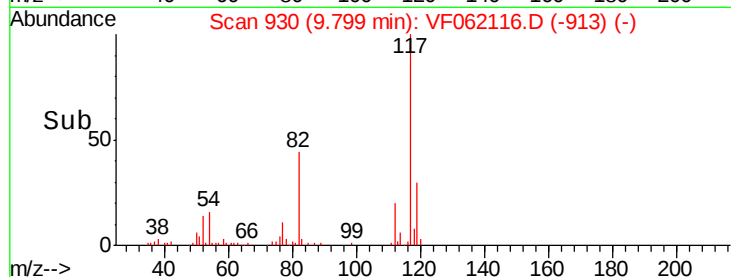
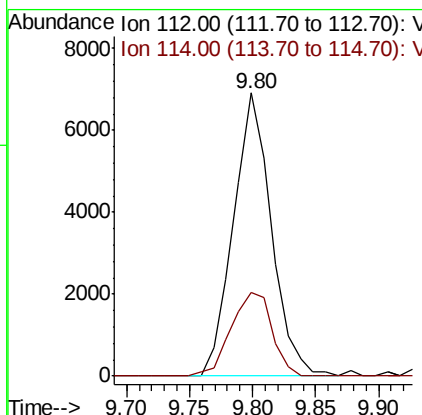
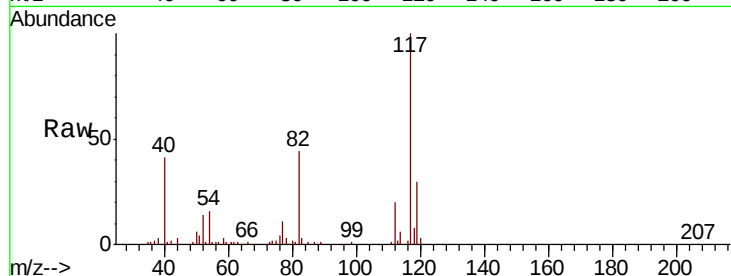




#65
Chlorobenzene
Concen: 3.355 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF062116.D
Acq: 23 Mar 2019 14:41

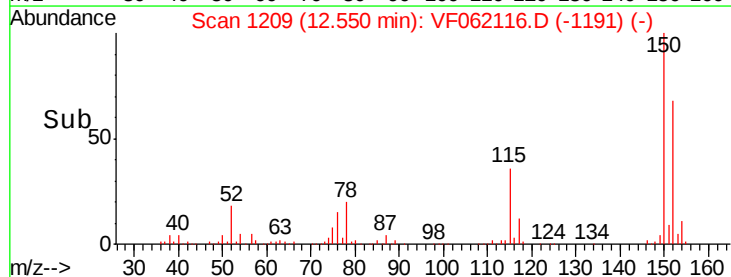
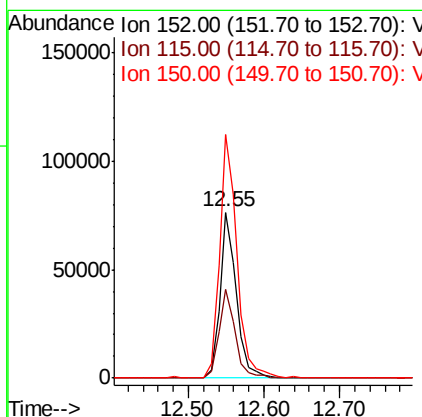
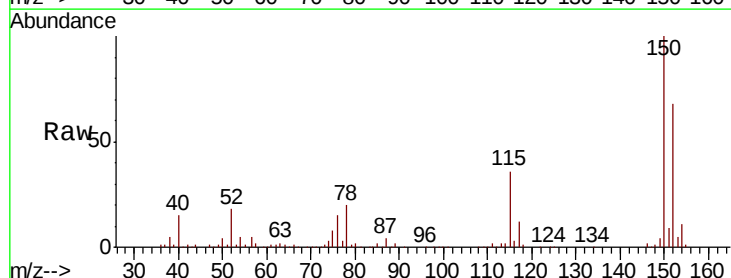
Instrument :
MSVOA_F
ClientSampleId :

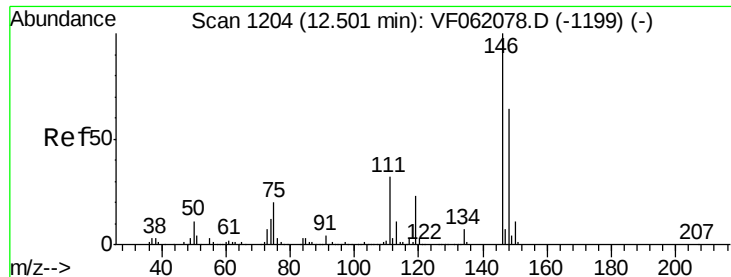
Tot Ion:112 Resp: 14444
Ion Ratio Lower Upper
112 100
114 29.8 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF062116.D
Acq: 23 Mar 2019 14:41

Tgt Ion:152 Resp: 116065
Ion Ratio Lower Upper
152 100
115 53.6 27.7 83.1
150 147.0 0.0 313.2

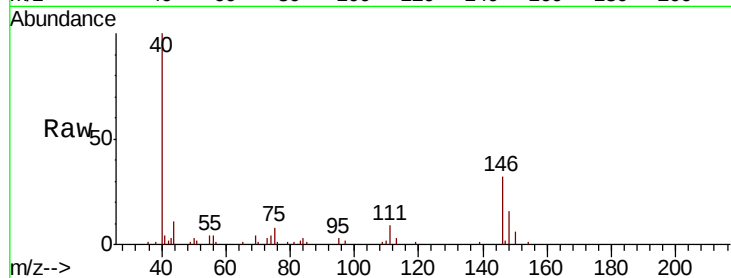




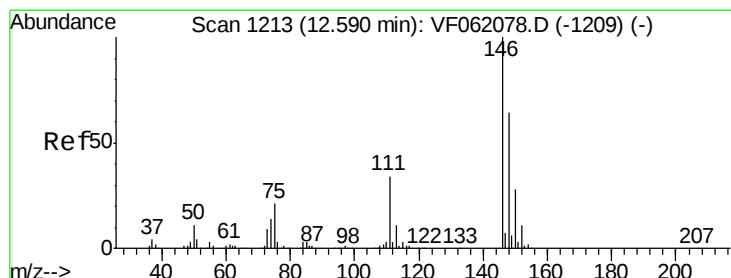
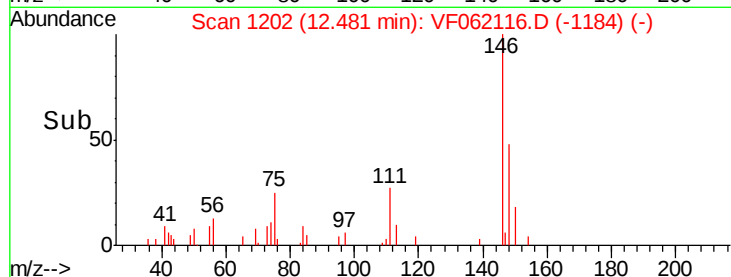
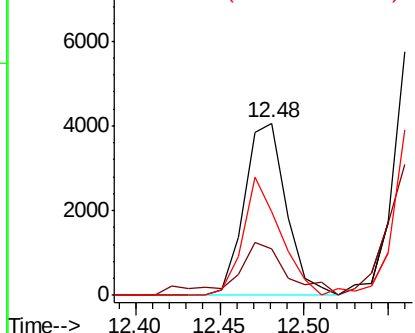
#87
 1,3-Dichlorobenzene
 Concen: 1.886 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.02 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:146 Resp: 6992
 Ion Ratio Lower Upper
 146 100
 111 26.8 16.1 48.3
 148 48.4 31.9 95.7

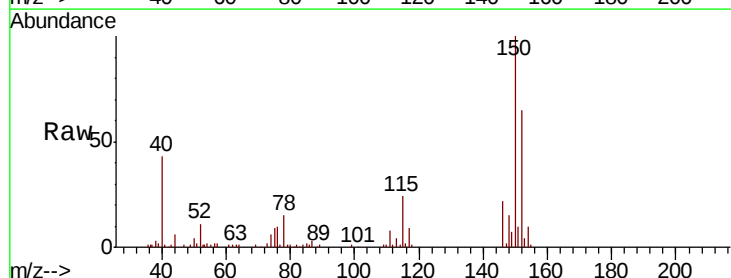


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

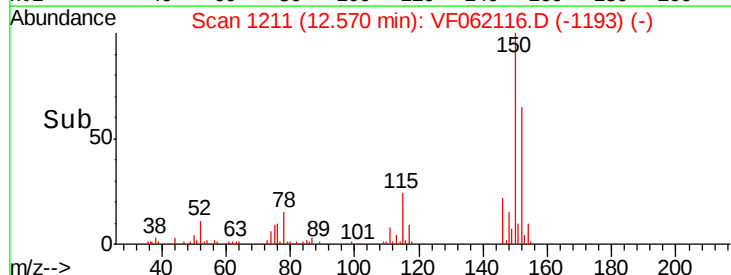
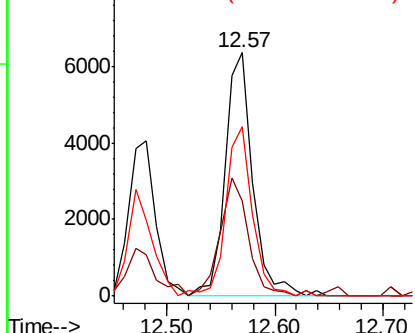


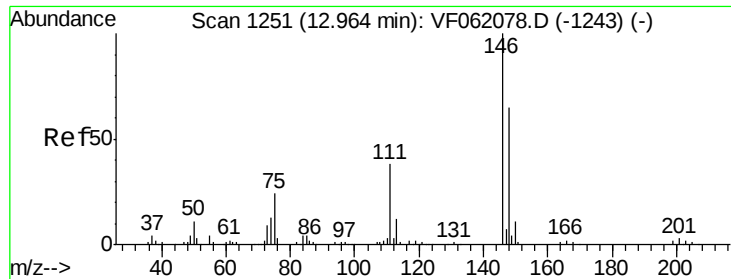
#88
 1,4-Dichlorobenzene
 Concen: 3.118 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.02 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

Tgt Ion:146 Resp: 11280
 Ion Ratio Lower Upper
 146 100
 111 38.9 16.9 50.6
 148 69.8 31.9 95.7



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

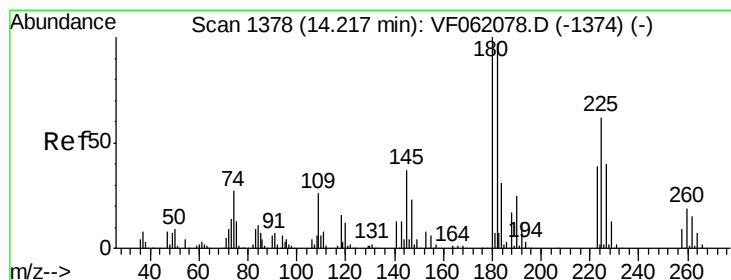
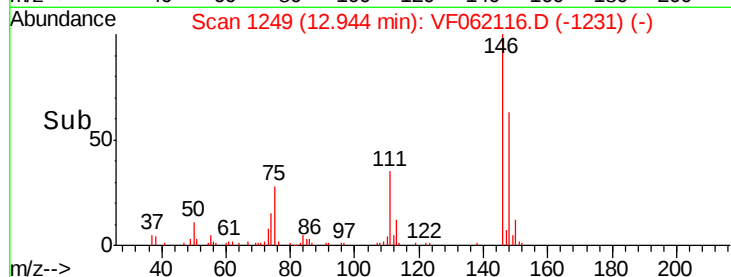
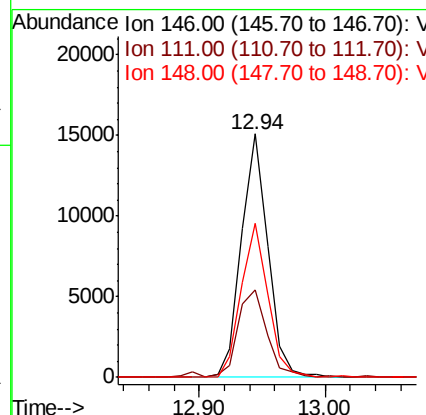
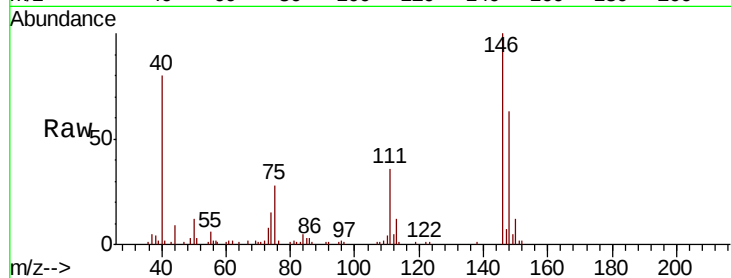




#91
 1,2-Dichlorobenzene
 Concen: 6.307 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

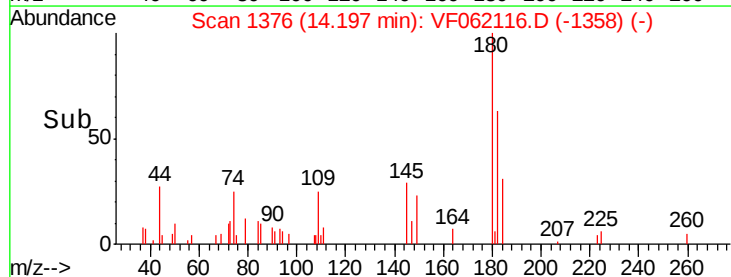
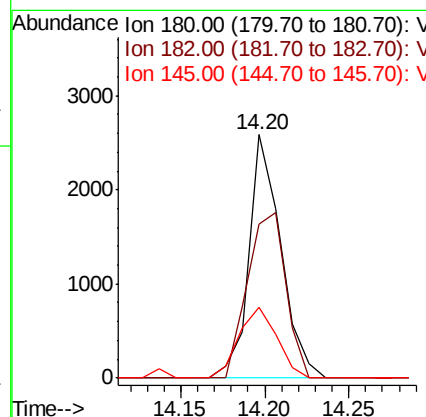
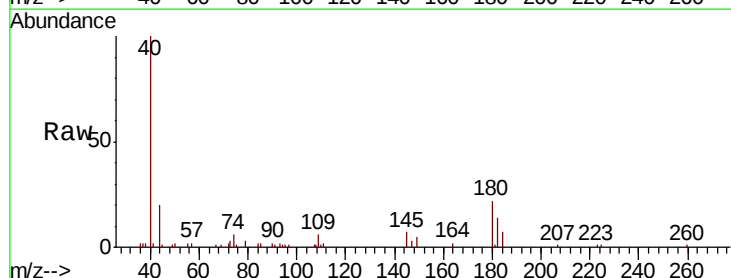
Instrument :
 MSVOA_F
 ClientSampleId :

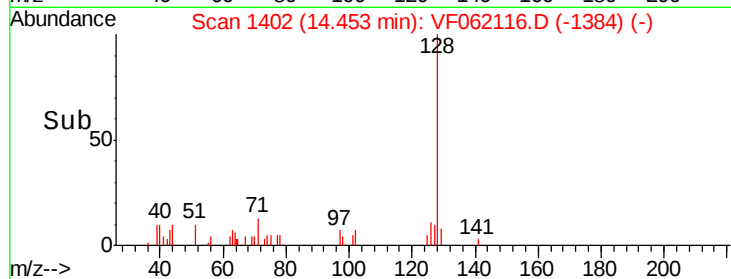
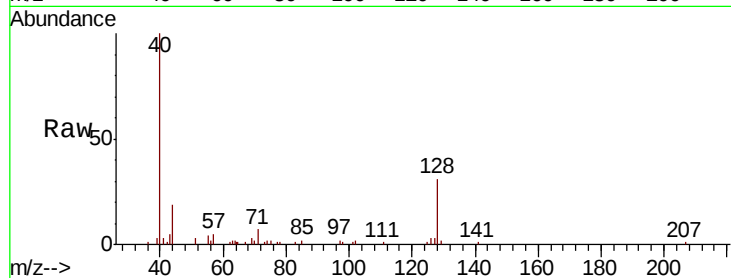
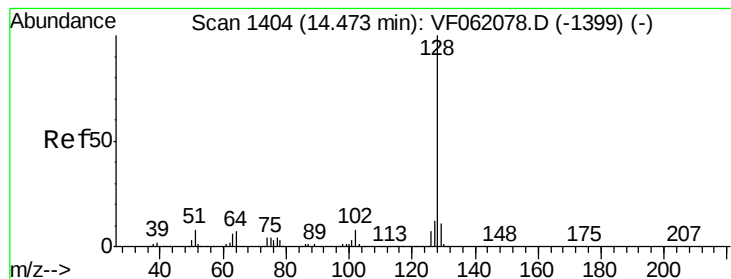
Tot Ion:146 Resp: 21955
 Ion Ratio Lower Upper
 146 100
 111 36.1 19.1 57.3
 148 63.5 32.8 98.3



#93
 1,2,4-Trichlorobenzene
 Concen: 1.402 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF062116.D
 Acq: 23 Mar 2019 14:41

Tgt Ion:180 Resp: 3401
 Ion Ratio Lower Upper
 180 100
 182 63.0 48.7 146.1
 145 29.1 18.3 54.8





#95
Naphthalene
Concen: 1.145 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF062116.D
Acq: 23 Mar 2019 14:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.0	9.5	14.3
129	8.0	8.7	13.1

