

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061456.D
 Acq On : 18 Jan 2019 13:40
 Operator : VA/AP
 Sample : K1173-01RE
 Misc : 3.43g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200052

Quant Time: Jan 19 03:58:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	186421	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	321810	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	304672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	157498	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	113200	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
35) Dibromofluoromethane	4.11	113	126907	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	7.55	98	328717	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
62) 4-Bromofluorobenzene	11.41	95	155981	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	

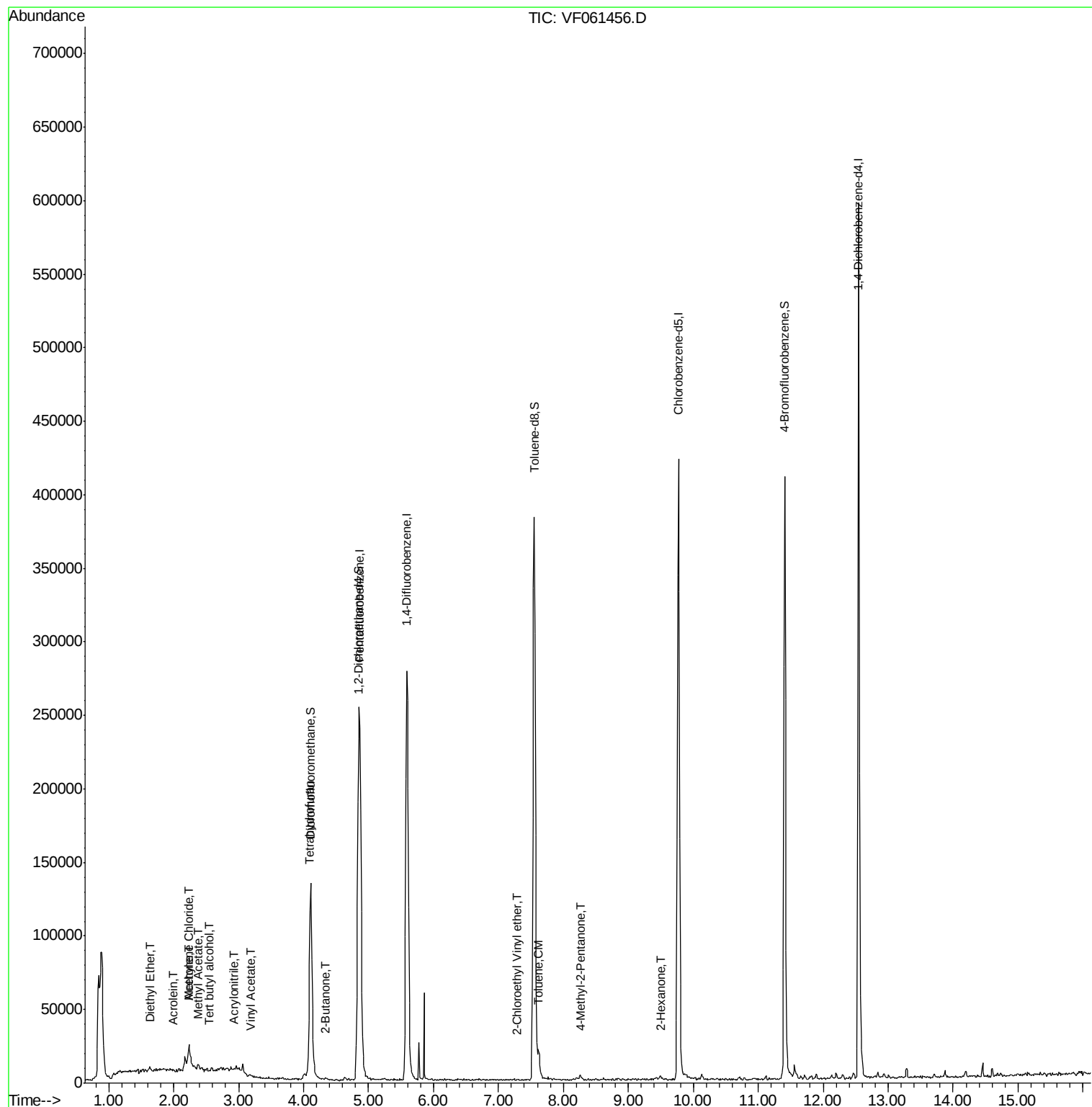
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	807	1.356	ug/l	54
11) Tert butyl alcohol	2.56	59	103	1.057	ug/l #	64
13) Acrolein	2.00	56	588	17.054	ug/l #	73
14) Allyl chloride	2.13	41	1404	Below Cal	#	47
15) Acrylonitrile	2.94	53	1025	4.107	ug/l #	23
16) Acetone	2.23	43	14055	30.440	ug/l	93
18) Methyl Acetate	2.37	43	1514	1.653	ug/l #	61
20) Methylene Chloride	2.24	84	5043	1.513	ug/l	91
23) Vinyl Acetate	3.18	43	1051	3.594	ug/l #	78
25) 2-Butanone	4.34	43	2787	3.630	ug/l	94
29) Tetrahydrofuran	4.09	42	807	2.441	ug/l #	63
49) 1,4-Dioxane	6.23	88	152	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.26	43	2714	1.972	ug/l	96
52) Toluene	7.62	92	9316	1.704	ug/l	86
58) 2-Chloroethyl Vinyl ether	7.28	63	131	28.133	ug/l #	47
59) 2-Hexanone	9.49	43	2712	2.826	ug/l	92

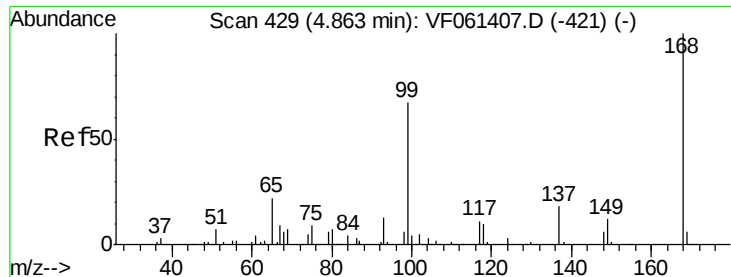
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

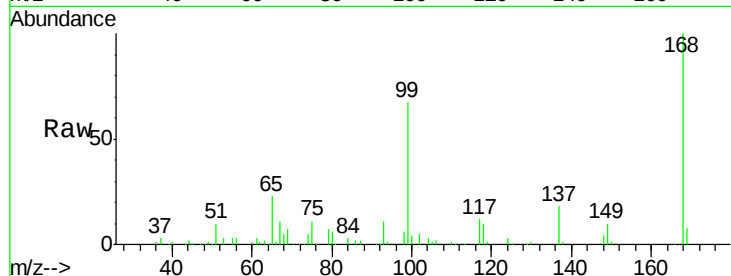
RBR-200052

Tot Ion:168 Resp: 186421

Ion Ratio Lower Upper

168 100

99 67.3 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

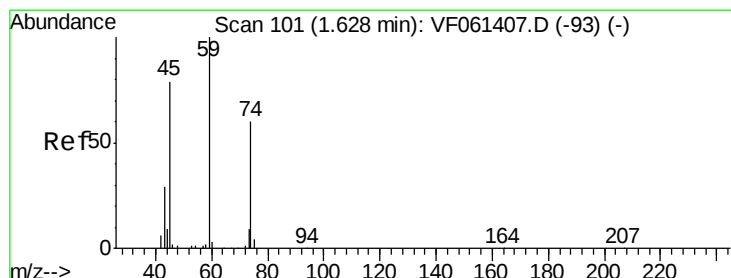
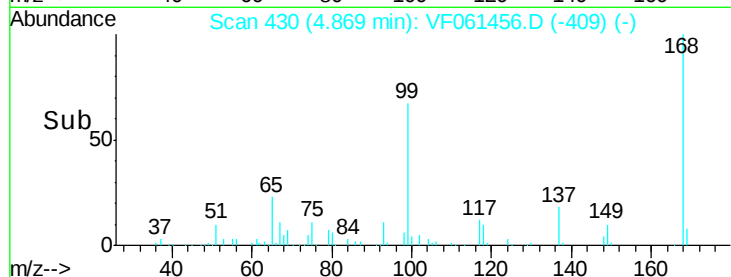
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 1.356 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061456.D

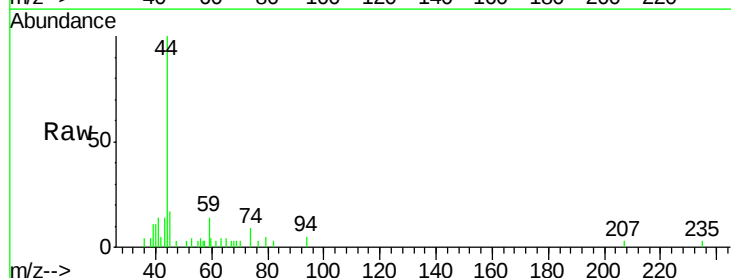
Acq: 18 Jan 2019 13:40

Tgt Ion: 74 Resp: 807

Ion Ratio Lower Upper

74 100

45 185.1 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

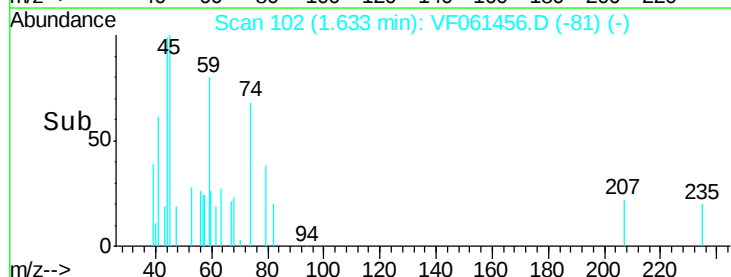
600

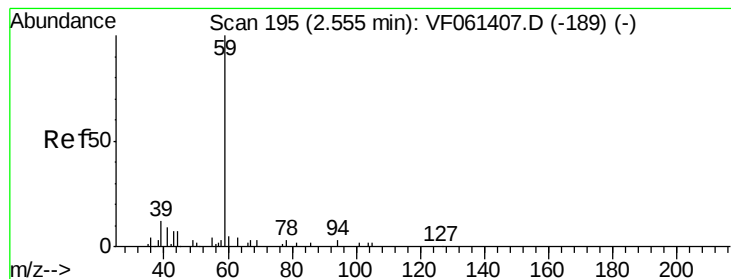
400

200

0

Time--> 1.60 1.65 1.70



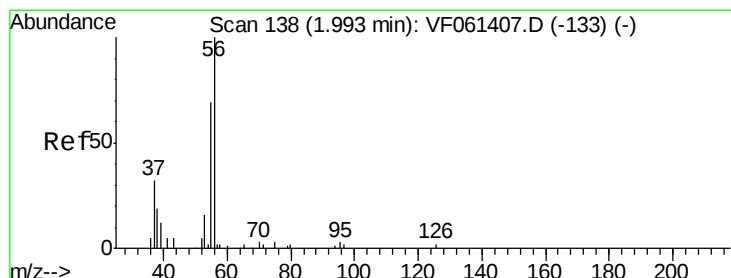
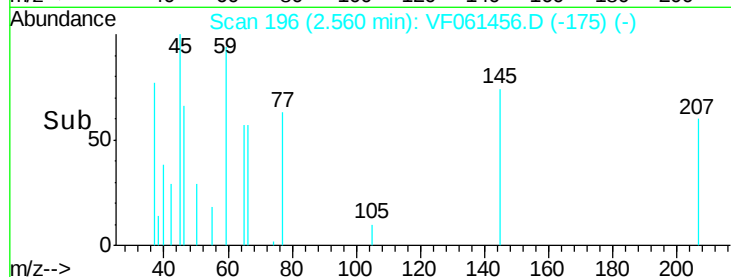
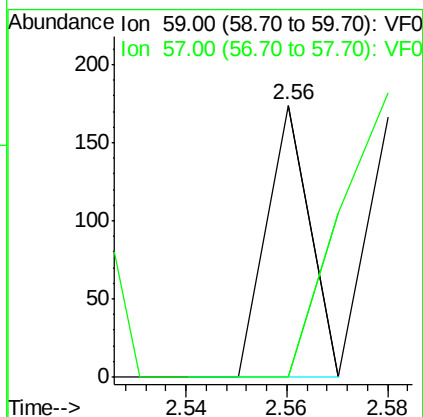
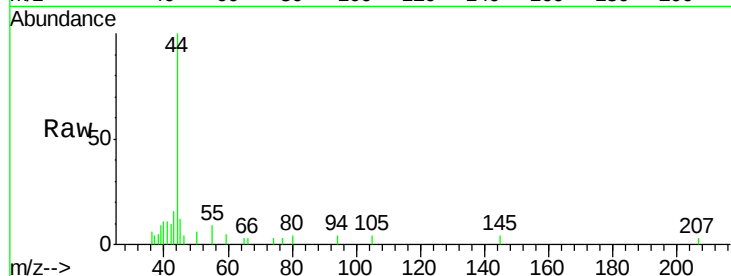


#11

Tert butyl alcohol
 Concen: 1.057 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VF061456.D
 Acq: 18 Jan 2019 13:40

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200052

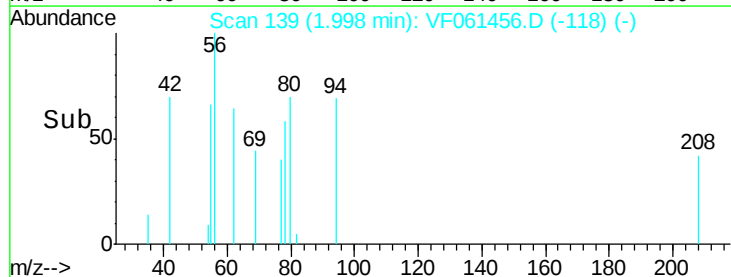
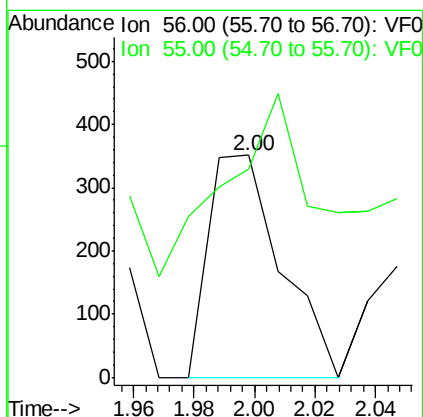
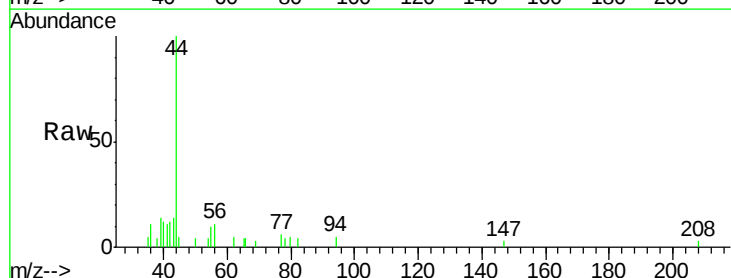
Tot Ion: 59 Resp: 103
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.9 17.9#

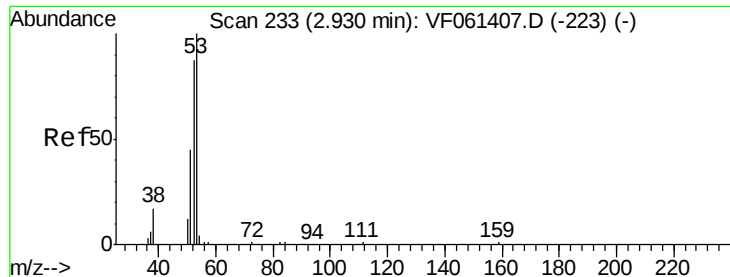


#13

Acrolein
 Concen: 17.054 ug/l
 RT: 2.00 min Scan# 139
 Delta R.T. 0.01 min
 Lab File: VF061456.D
 Acq: 18 Jan 2019 13:40

Tgt Ion: 56 Resp: 588
 Ion Ratio Lower Upper
 56 100
 55 94.0 57.5 86.3#





#15

Acrylonitrile

Concen: 4.107 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

RBR-200052

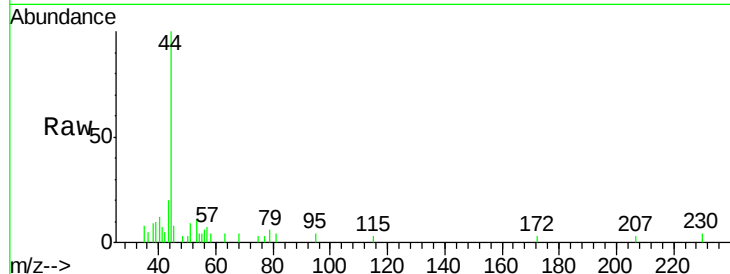
Tot Ion: 53 Resp: 1025

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

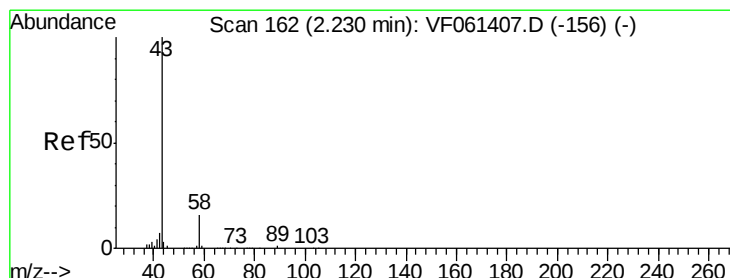
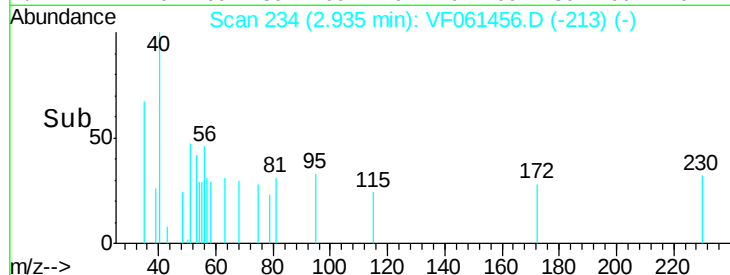
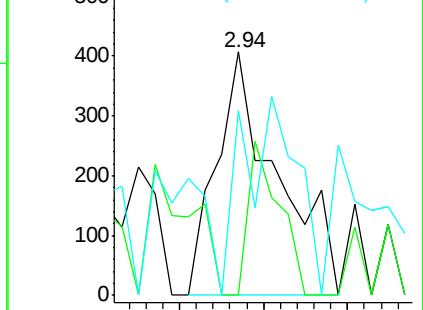
51 75.9 36.8 55.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 30.440 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061456.D

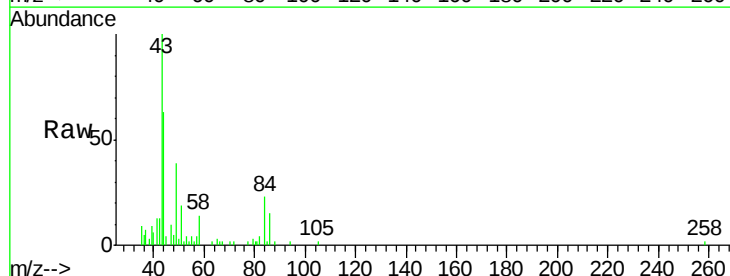
Acq: 18 Jan 2019 13:40

Tgt Ion: 43 Resp: 14055

Ion Ratio Lower Upper

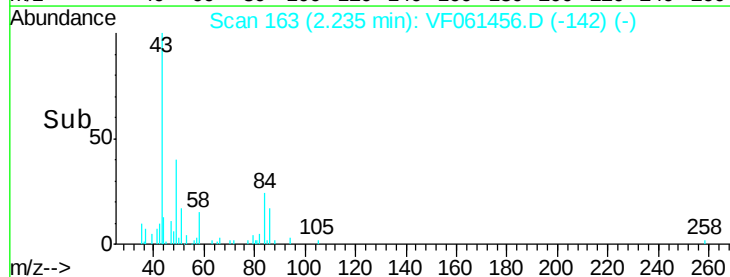
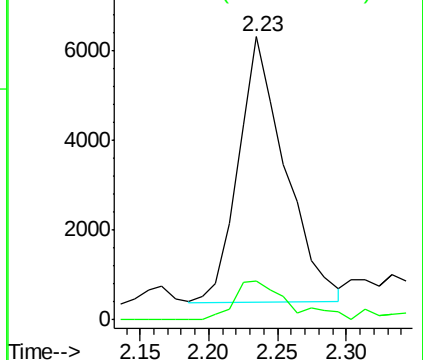
43 100

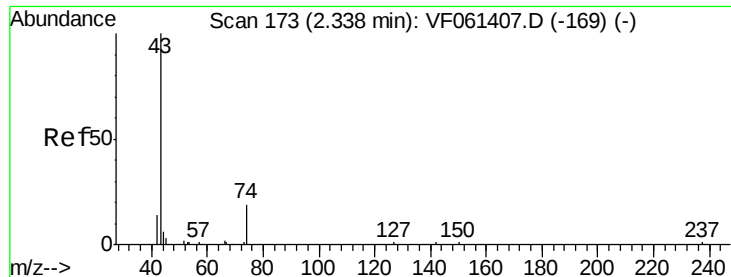
58 13.8 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

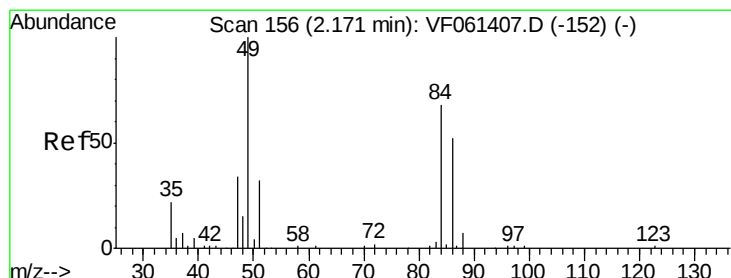
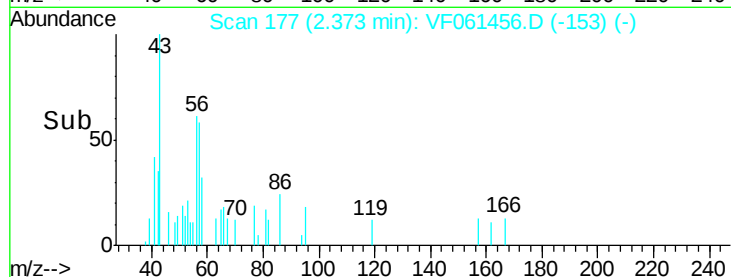
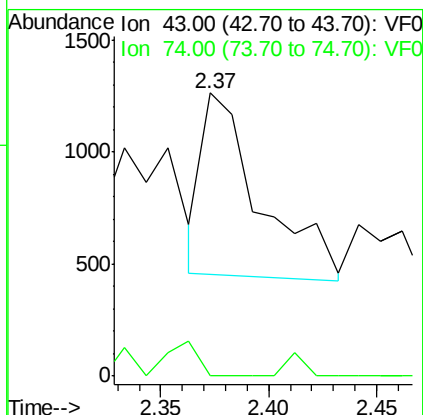
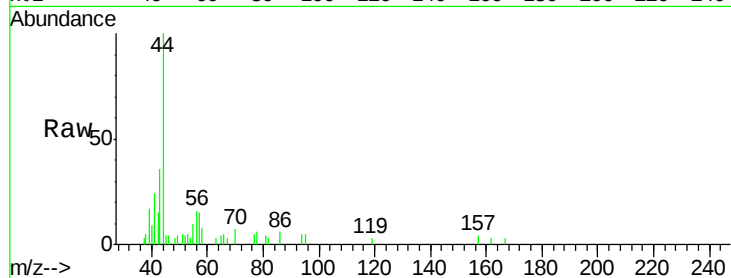




#18
Methyl Acetate
Concen: 1.653 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061456.D
Acq: 18 Jan 2019 13:40

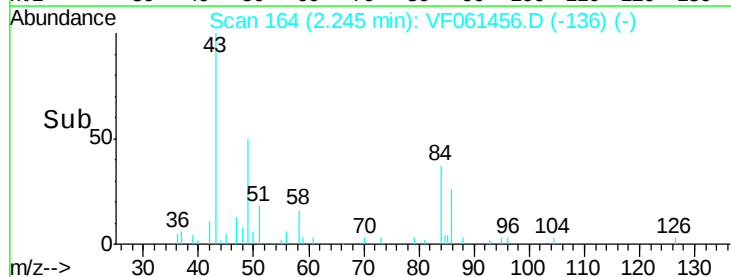
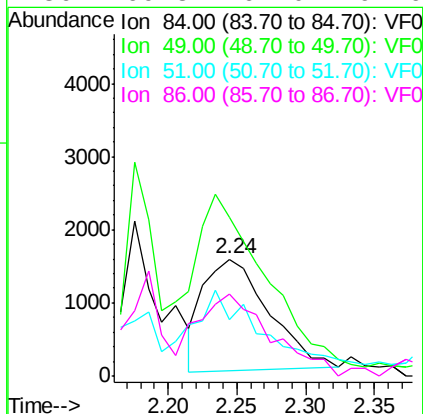
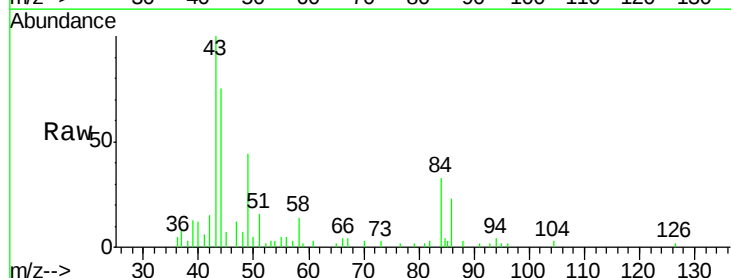
Instrument :
MSVOA_F
ClientSampleId :
RBR-200052

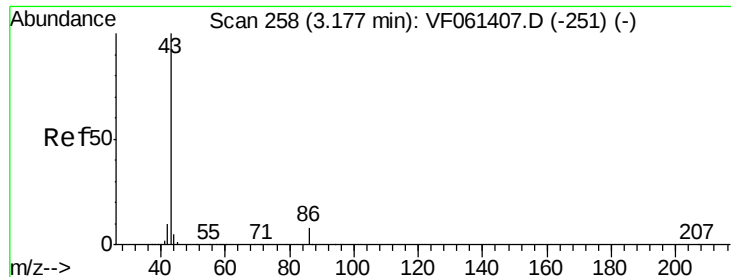
Tot Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 1.513 ug/l
RT: 2.24 min Scan# 164
Delta R.T. 0.07 min
Lab File: VF061456.D
Acq: 18 Jan 2019 13:40

Tgt Ion: 84 Resp: 5043
Ion Ratio Lower Upper
84 100
49 135.1 120.0 180.0
51 48.4 38.6 58.0
86 69.8 61.0 91.6





#23

Vinyl Acetate

Concen: 3.594 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

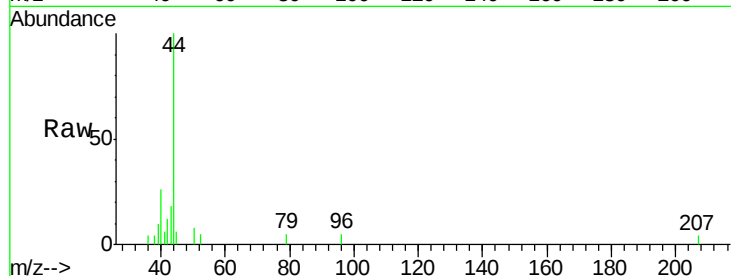
RBR-200052

Tot Ion: 43 Resp: 1051

Ion Ratio Lower Upper

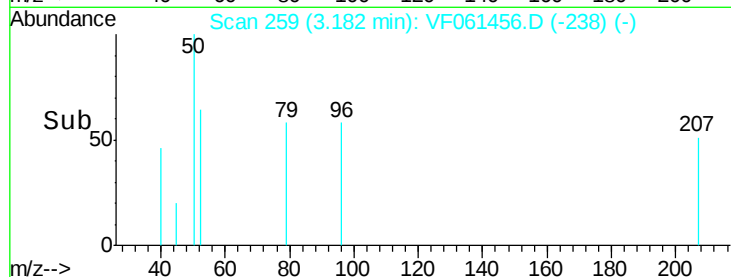
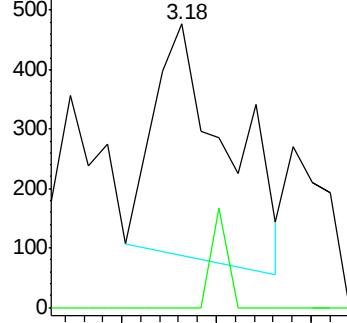
43 100

86 0.0 6.2 9.4#

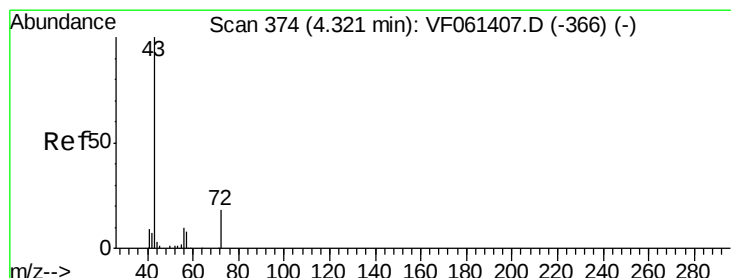


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 3.630 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061456.D

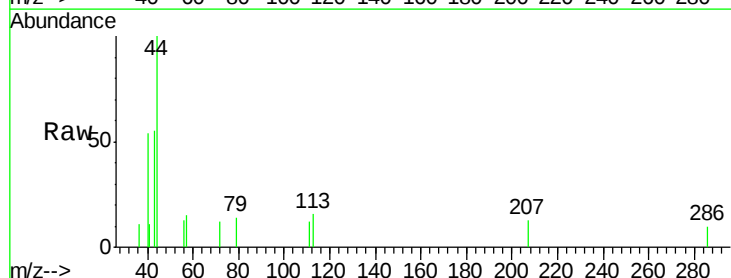
Acq: 18 Jan 2019 13:40

Tgt Ion: 43 Resp: 2787

Ion Ratio Lower Upper

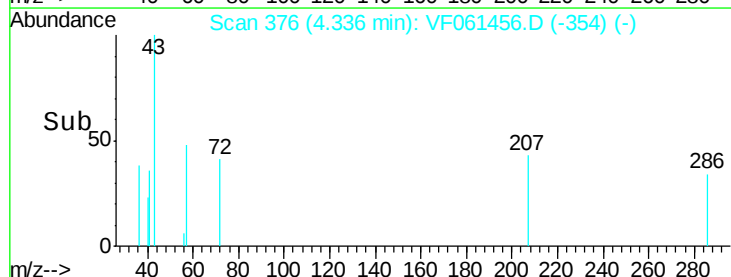
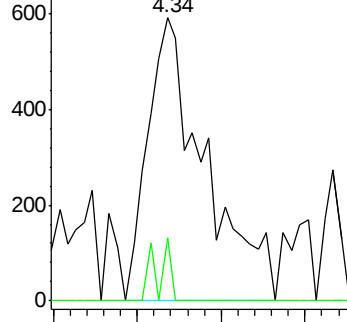
43 100

72 22.5 15.8 23.6

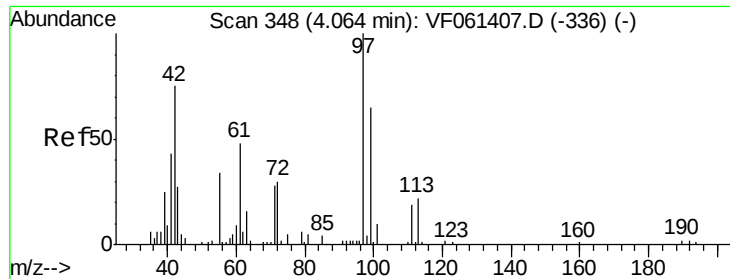


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 2.441 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

RBR-200052

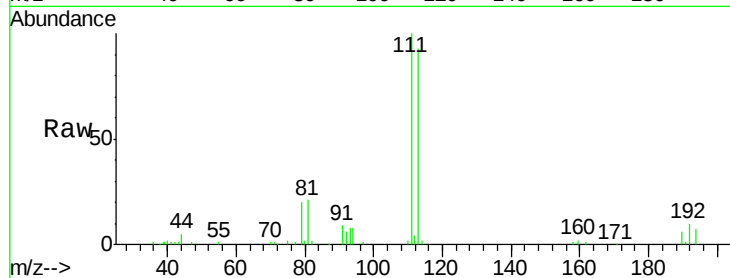
Tot Ion: 42 Resp: 807

Ion Ratio Lower Upper

42 100

72 8.4 28.9 43.3#

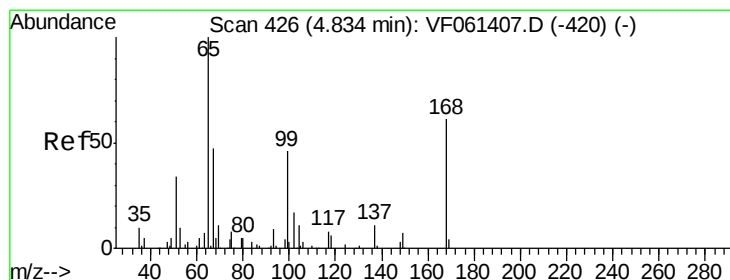
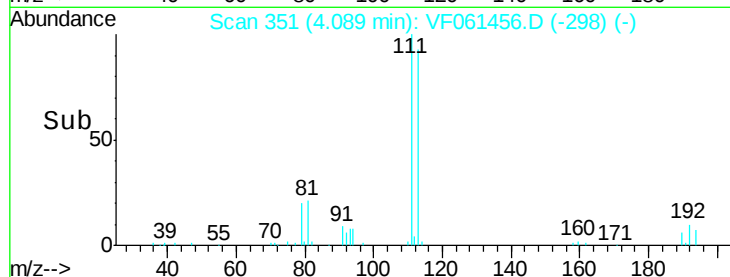
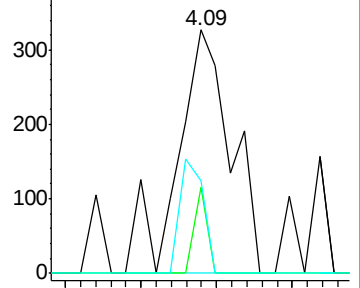
71 20.3 29.6 44.4#



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



#33

1,2-Dichloroethane-d4

Concen: 49.183 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061456.D

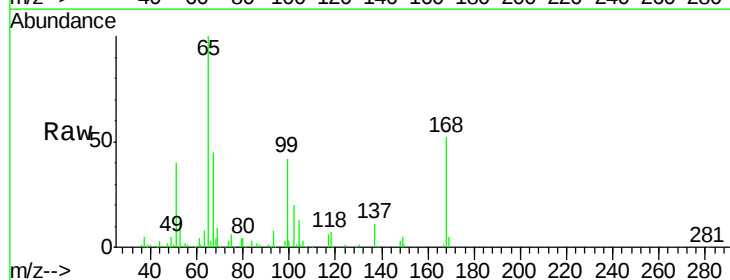
Acq: 18 Jan 2019 13:40

Tgt Ion: 65 Resp: 113200

Ion Ratio Lower Upper

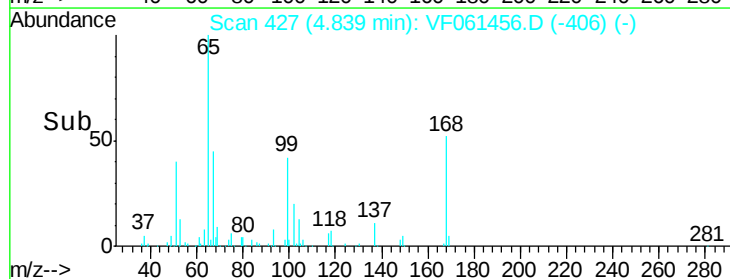
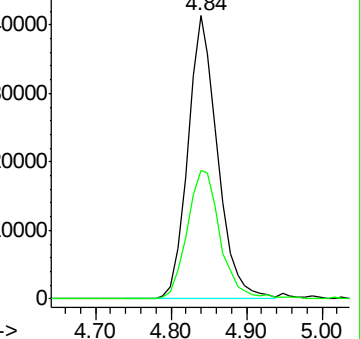
65 100

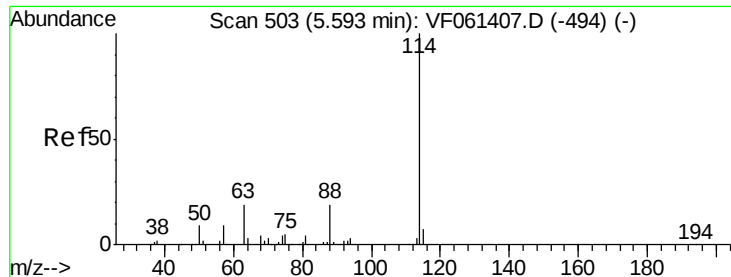
67 45.2 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

RBR-200052

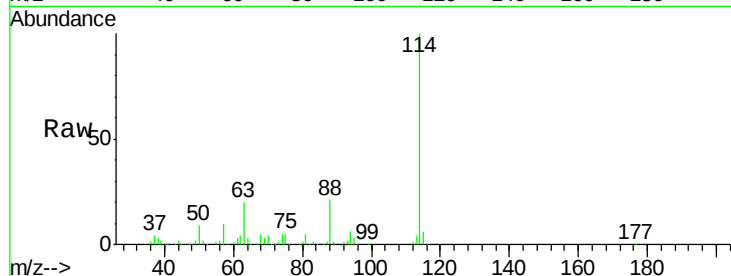
Tot Ion:114 Resp: 321810

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

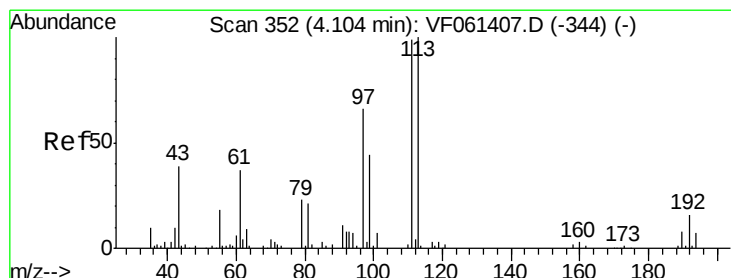
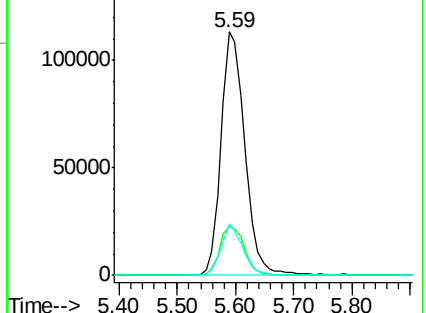
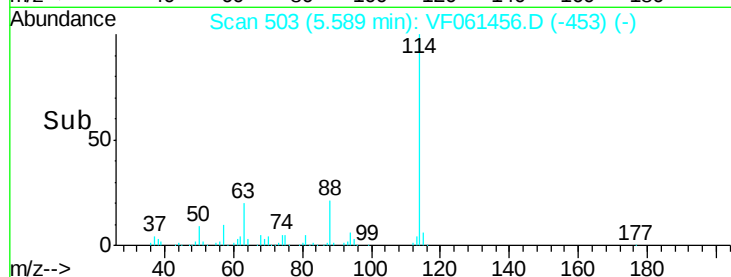
88 21.0 0.0 37.4



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



#35

Dibromofluoromethane

Concen: 49.976 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

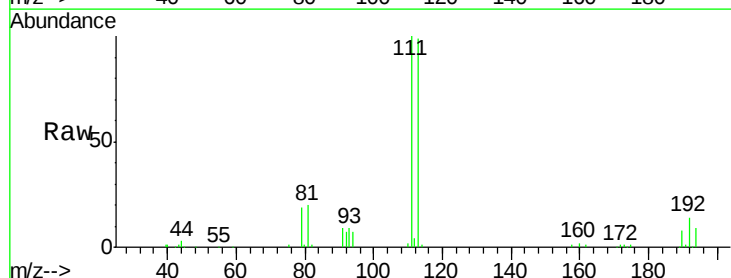
Tgt Ion:113 Resp: 126907

Ion Ratio Lower Upper

113 100

111 101.5 79.4 119.0

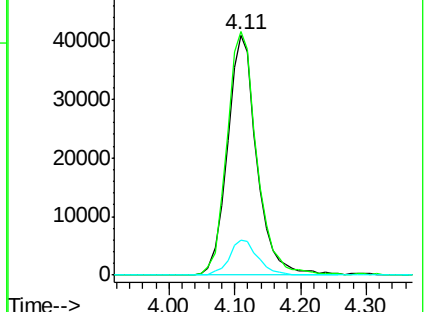
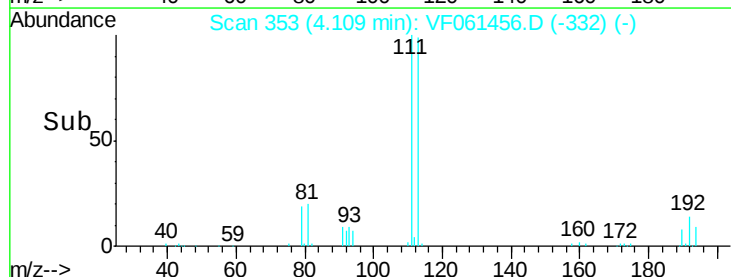
192 14.4 12.4 18.6

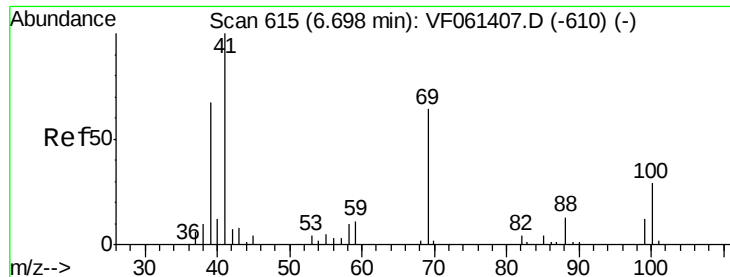


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.23 min Scan# 568

Delta R.T. -0.47 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

RBR-200052

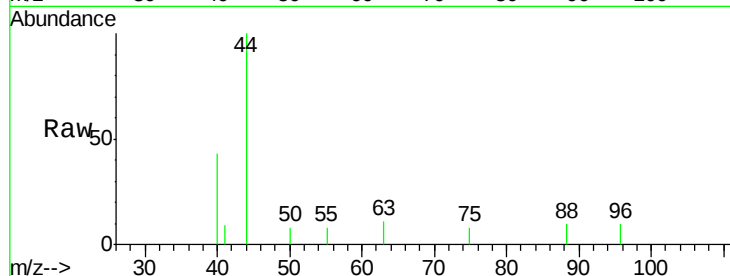
Tot Ion: 88 Resp: 152

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

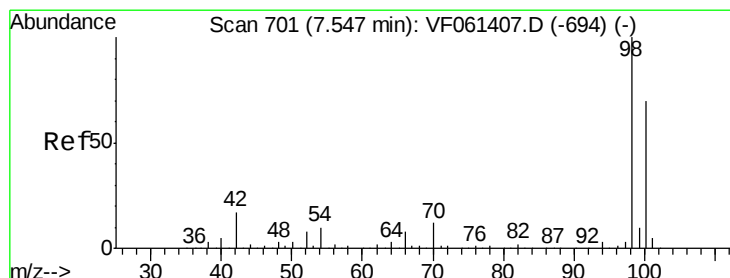
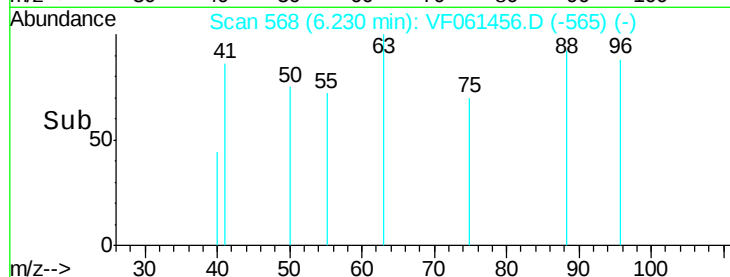
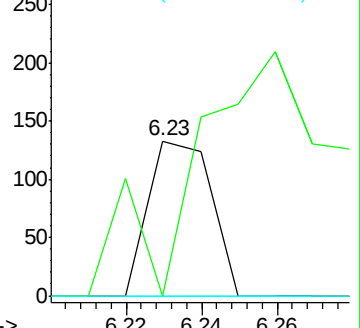
58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 47.247 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061456.D

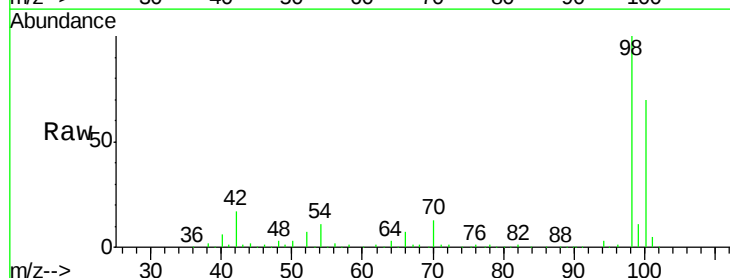
Acq: 18 Jan 2019 13:40

Tgt Ion: 98 Resp: 328717

Ion Ratio Lower Upper

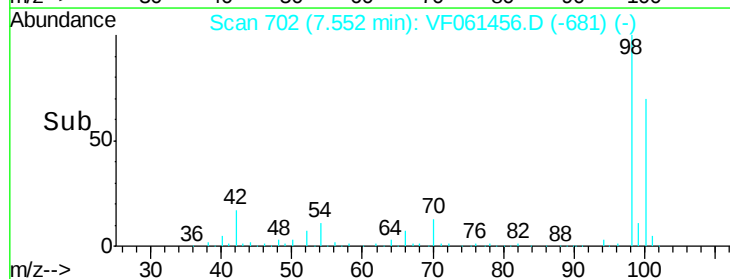
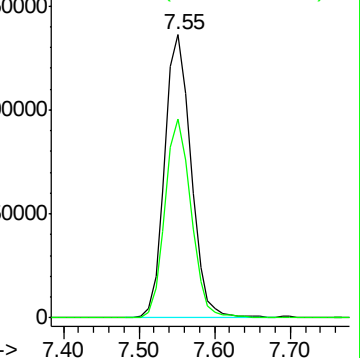
98 100

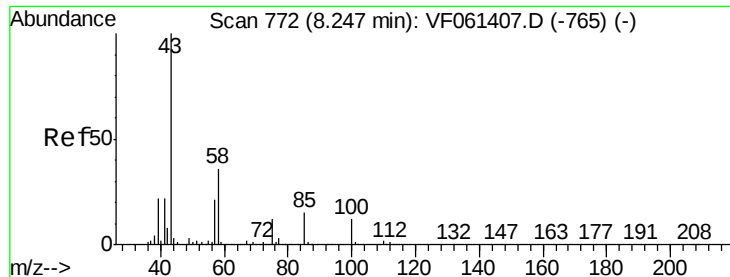
100 70.3 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.972 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

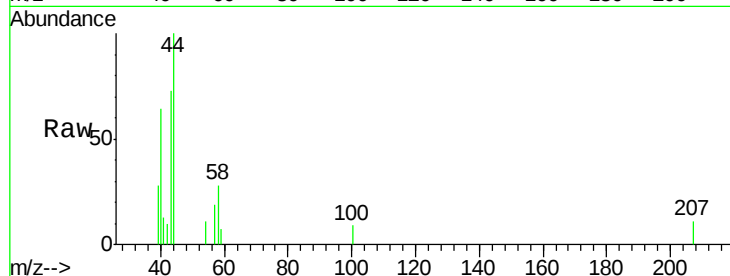
RBR-200052

Tot Ion: 43 Resp: 2714

Ion Ratio Lower Upper

43 100

58 38.1 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1200

1000

800

600

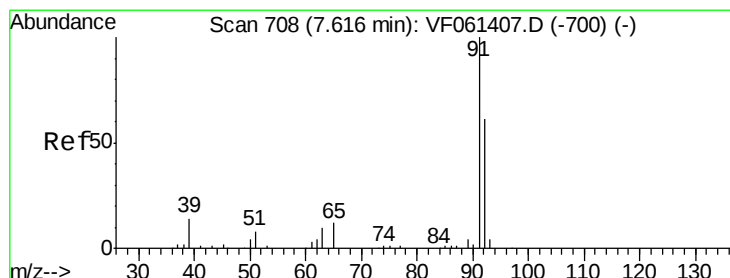
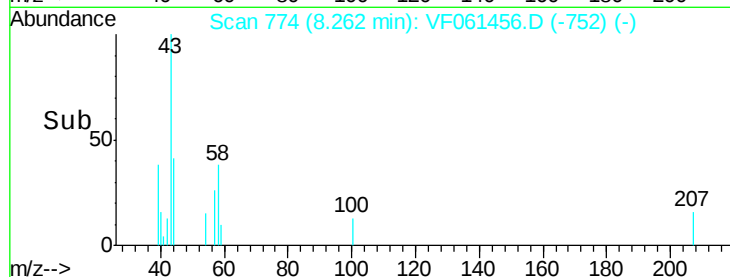
400

200

0

Time-->

8.15 8.20 8.25 8.30 8.35



#52

Toluene

Concen: 1.704 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061456.D

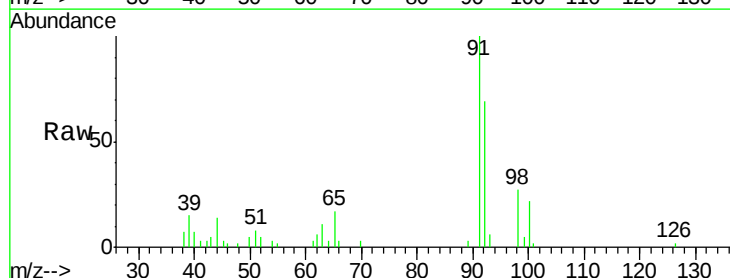
Acq: 18 Jan 2019 13:40

Tgt Ion: 92 Resp: 9316

Ion Ratio Lower Upper

92 100

91 145.8 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

6000

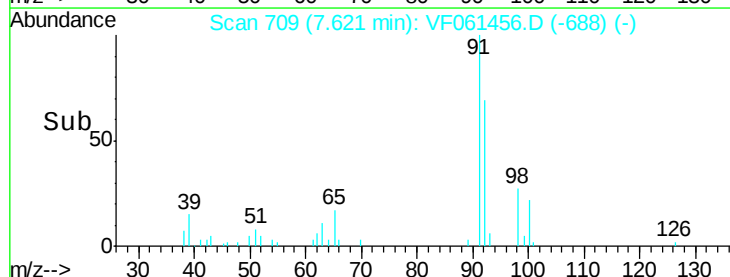
4000

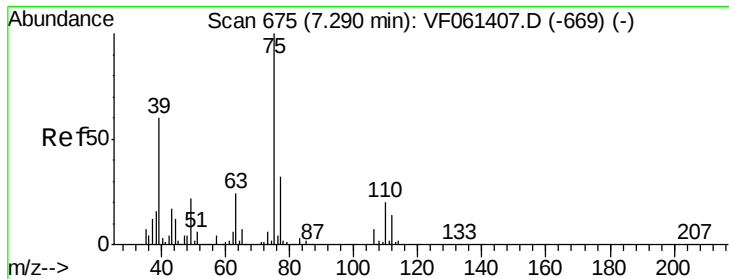
2000

0

Time-->

7.55 7.60 7.65 7.70





#58

2-Chloroethyl Vinyl ether

Concen: 28.133 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

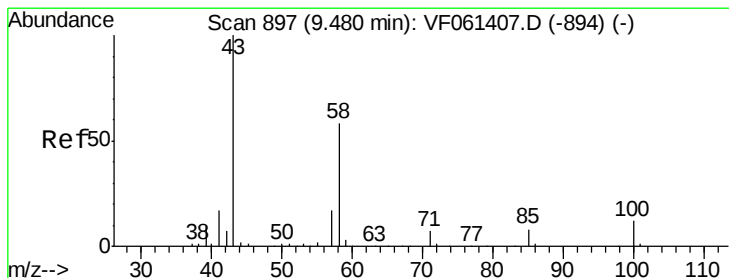
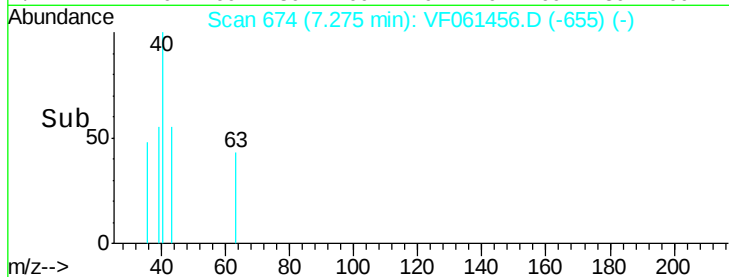
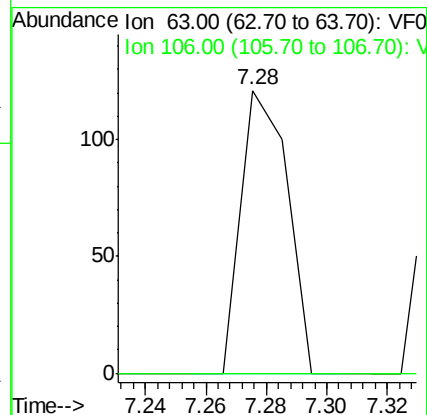
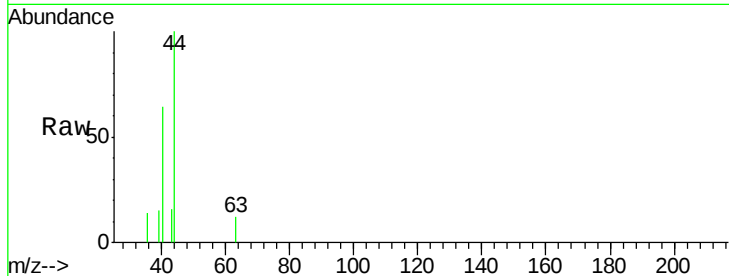
RBR-200052

Tot Ion: 63 Resp: 131

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



#59

2-Hexanone

Concen: 2.826 ug/l

RT: 9.49 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061456.D

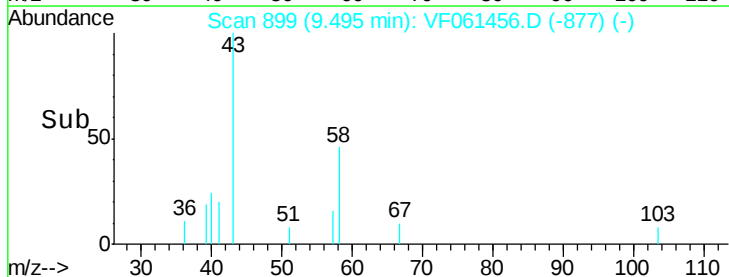
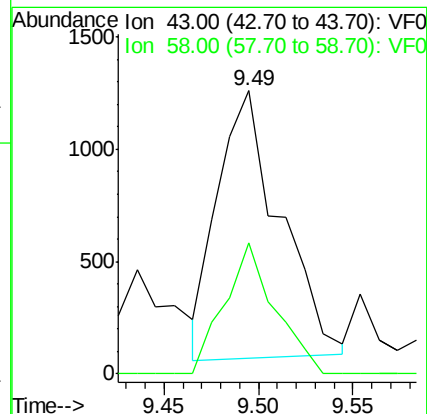
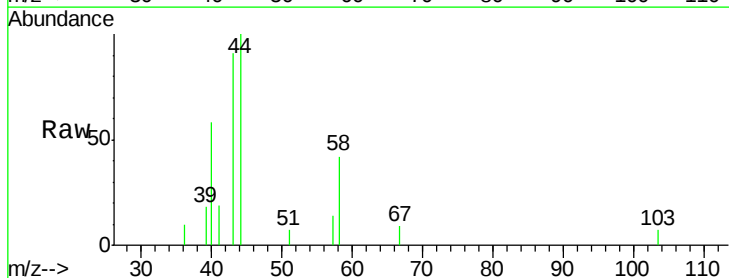
Acq: 18 Jan 2019 13:40

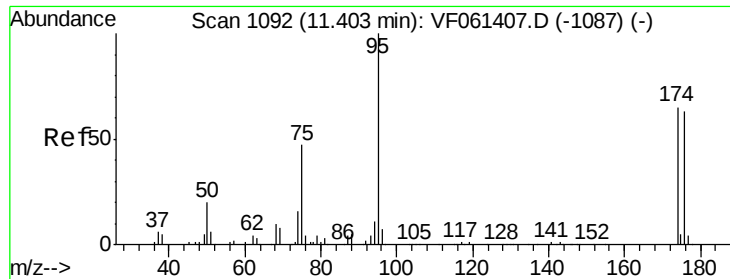
Tgt Ion: 43 Resp: 2712

Ion Ratio Lower Upper

43 100

58 46.3 25.9 77.6

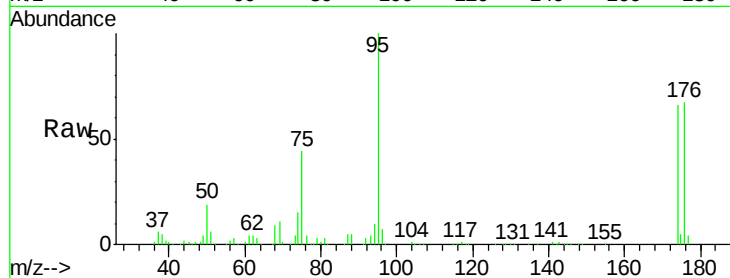




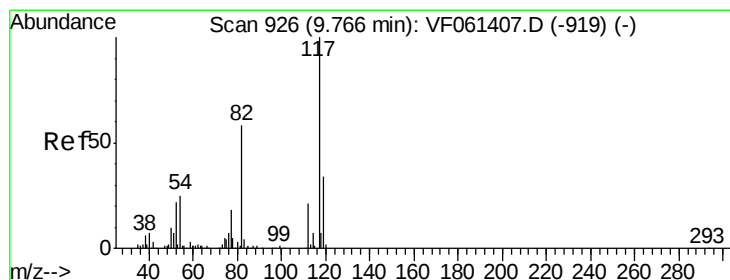
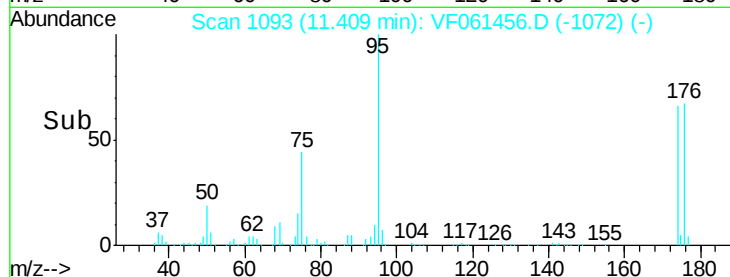
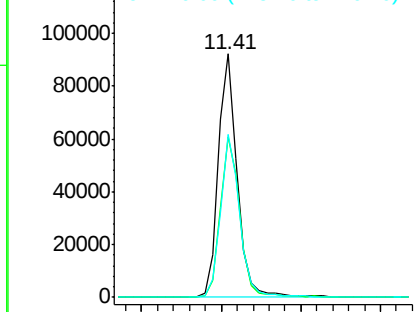
#62
4-Bromofluorobenzene
Concen: 47.984 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061456.D
Acq: 18 Jan 2019 13:40

Instrument :
MSVOA_F
ClientSampleId :
RBR-200052

Tot Ion: 95 Resp: 155981
Ion Ratio Lower Upper
95 100
174 66.1 0.0 130.4
176 66.9 0.0 126.2

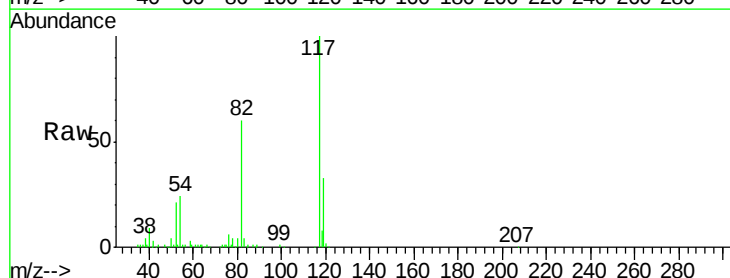


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

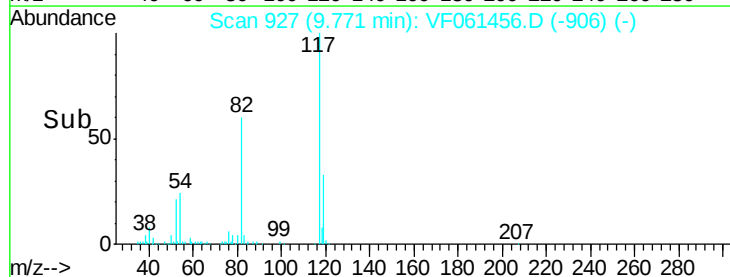
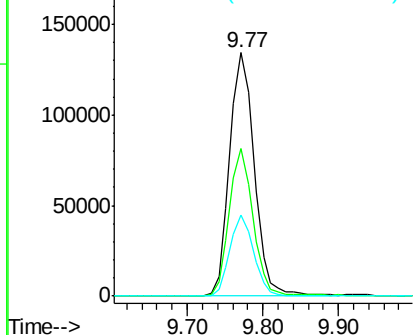


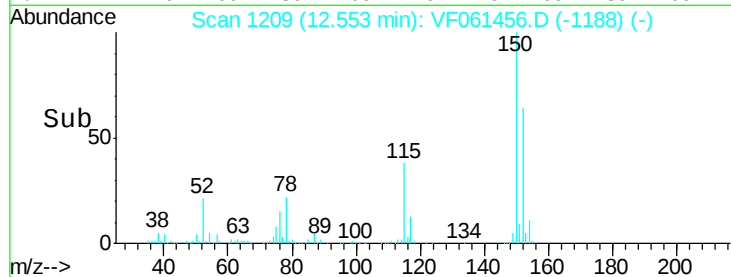
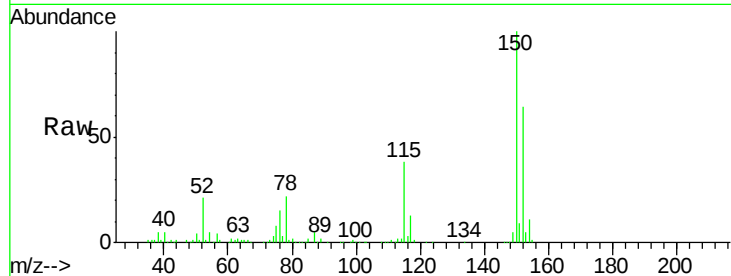
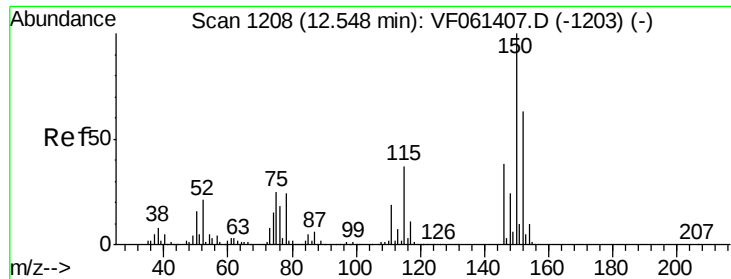
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061456.D
Acq: 18 Jan 2019 13:40

Tgt Ion: 117 Resp: 304672
Ion Ratio Lower Upper
117 100
82 60.5 46.4 69.6
119 33.5 27.2 40.8



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: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061456.D

Acq: 18 Jan 2019 13:40

Instrument :

MSVOA_F

ClientSampleId :

RBR-200052

Tot Ion:152 Resp: 157498

Ion Ratio Lower Upper

152 100

115 58.9 30.0 90.0

150 157.1 0.0 321.4

