

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122718\
 Data File : VF061213.D
 Acq On : 27 Dec 2018 17:38
 Operator : VA/AP
 Sample : J6473-01
 Misc : 6.64g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S32-0636

Quant Time: Dec 27 23:50:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	214255	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	383094	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.75	117	362801	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	202909	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	146301	53.09	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.18%	
35) Dibromofluoromethane	4.09	113	161344	52.58	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	105.16%	
50) Toluene-d8	7.53	98	395190	45.44	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.88%	
62) 4-Bromofluorobenzene	11.39	95	197044	49.15	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.30%	

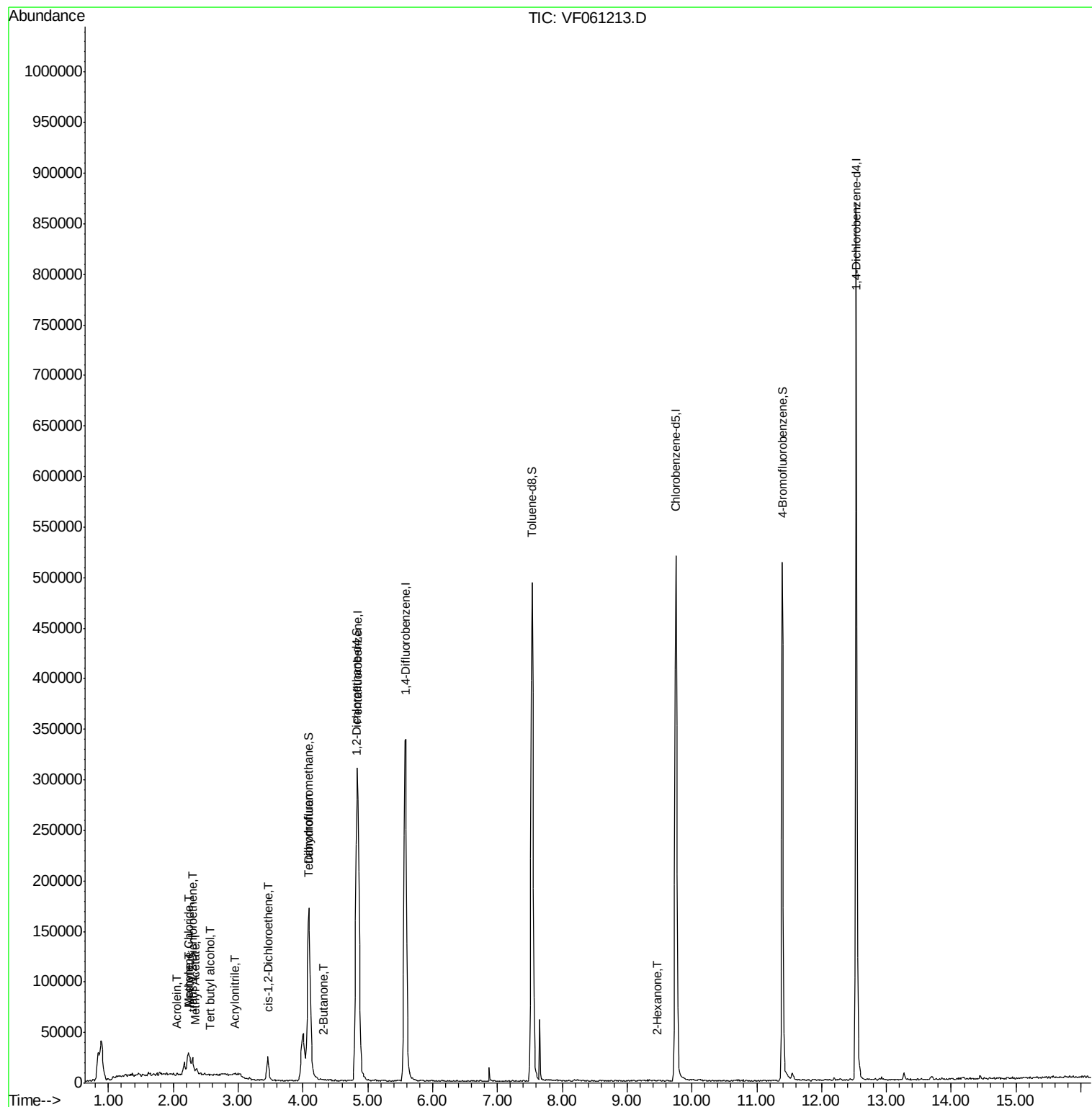
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	306	2.752	ug/l #	65
13) Acrolein	2.06	56	245	3.049	ug/l	97
15) Acrylonitrile	2.95	53	603	2.345	ug/l #	1
16) Acetone	2.23	43	23072	41.881	ug/l #	86
18) Methyl Acetate	2.34	43	3358	2.946	ug/l #	91
20) Methylene Chloride	2.24	84	10309	1.499	ug/l #	72
21) trans-1,2-Dichloroethene	2.30	96	3768	1.865	ug/l	93
25) 2-Butanone	4.32	43	2748	3.076	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	11029	3.566	ug/l	84
29) Tetrahydrofuran	4.07	42	366	1.006	ug/l #	55
59) 2-Hexanone	9.47	43	1714	1.548	ug/l #	27
70) Styrene	10.78	104	327	Below Cal	#	62
78) n-propylbenzene	11.58	91	862	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.47	146	185	Below Cal	#	18

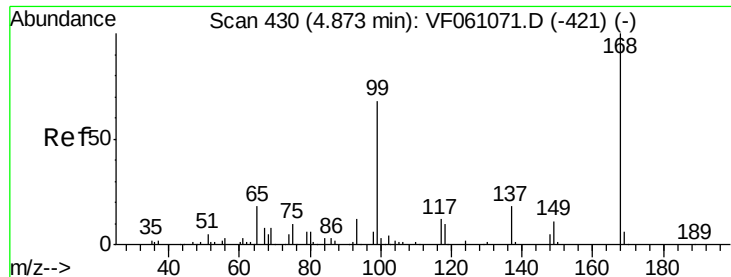
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

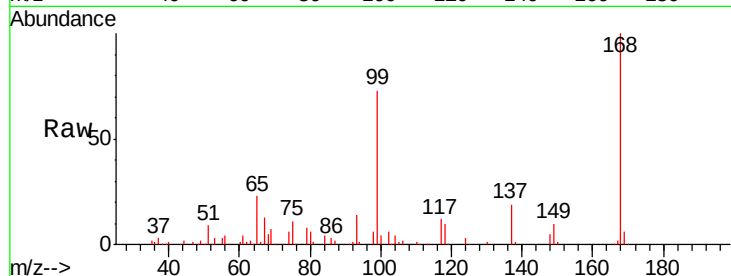
S32-0636

Tgt Ion: 168 Resp: 214255

Ion Ratio Lower Upper

168 100

99 72.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

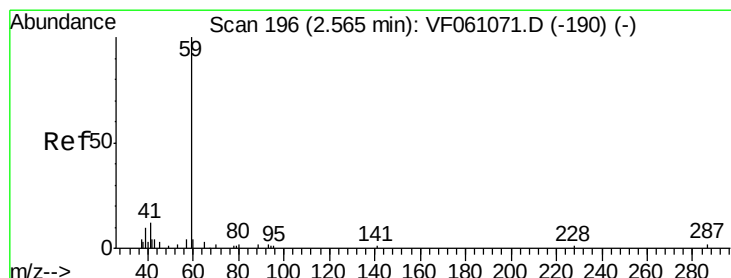
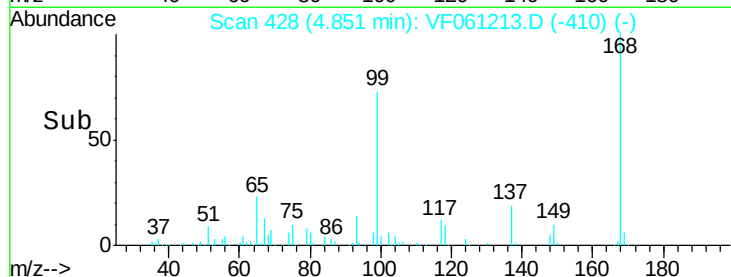
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 2.752 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF061213.D

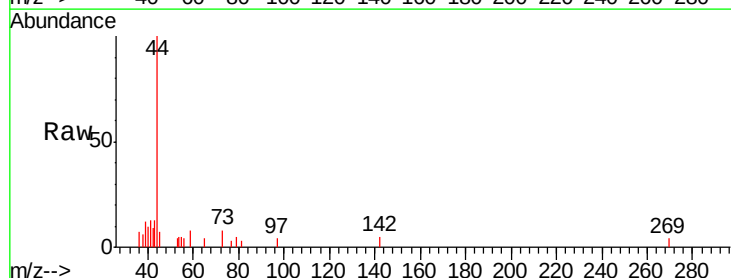
Acq: 27 Dec 2018 17:38

Tgt Ion: 59 Resp: 306

Ion Ratio Lower Upper

59 100

57 0.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

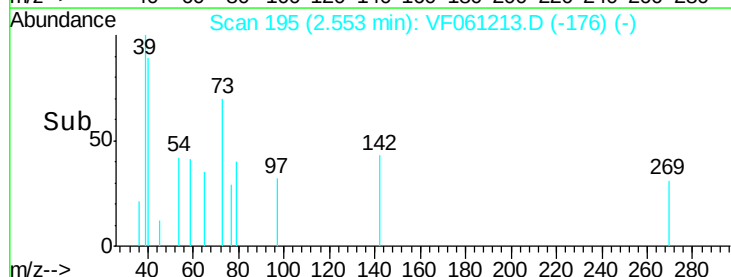
100

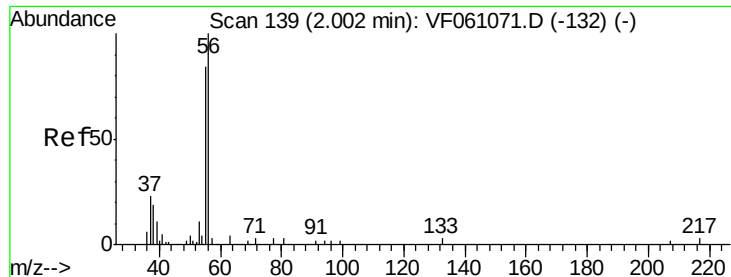
50

0

Time-->

2.52 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 3.049 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.06 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

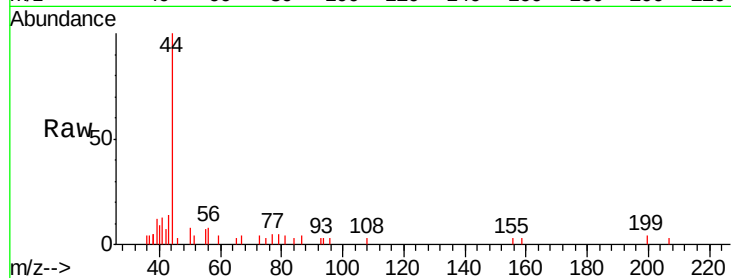
S32-0636

Tgt Ion: 56 Resp: 245

Ion Ratio Lower Upper

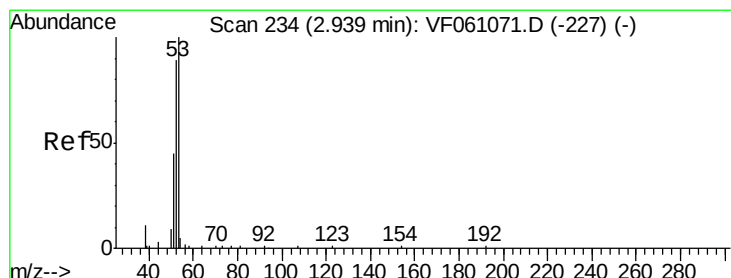
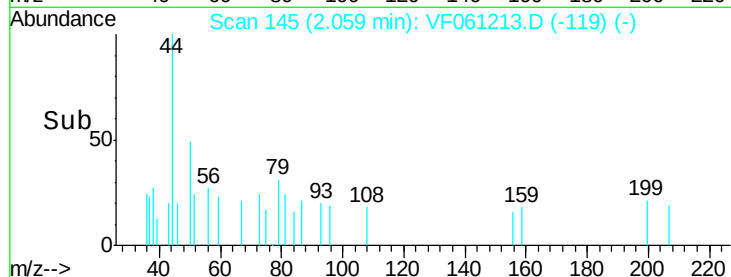
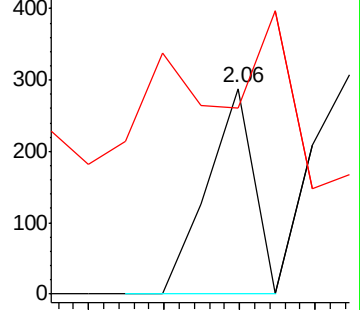
56 100

55 90.6 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 2.345 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

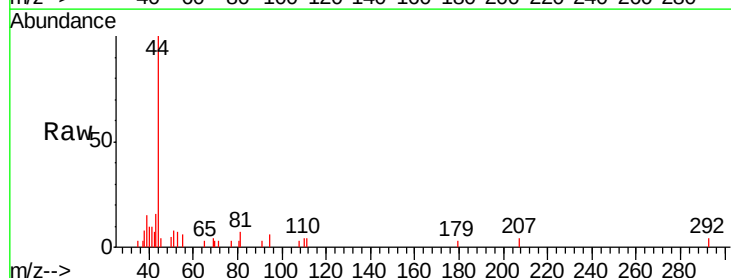
Tgt Ion: 53 Resp: 603

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

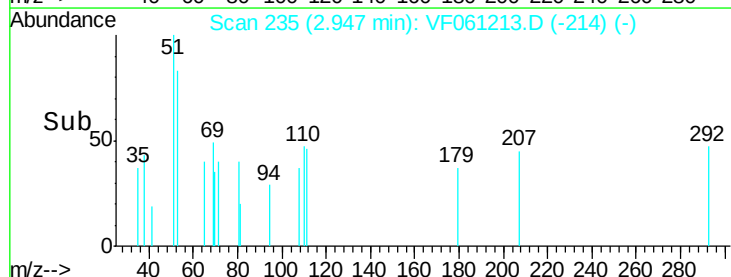
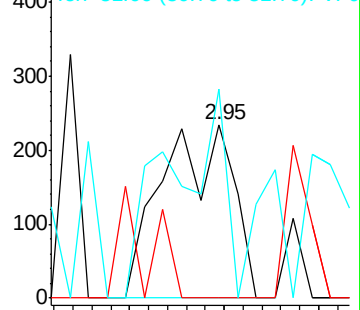
51 120.0 36.8 55.2#

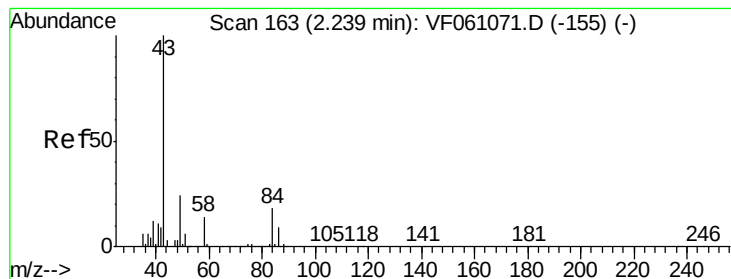


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 41.881 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

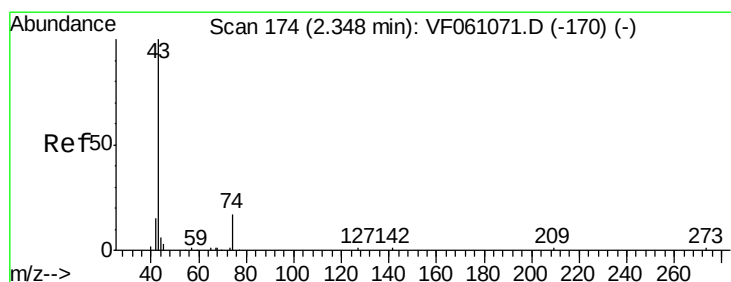
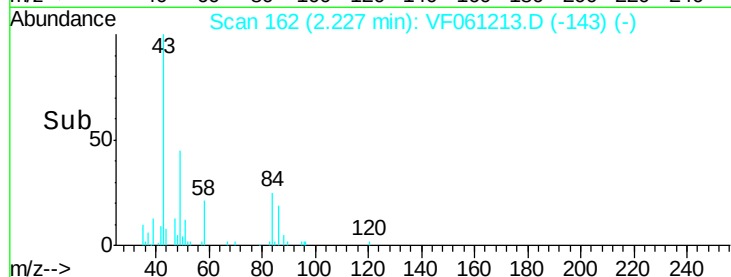
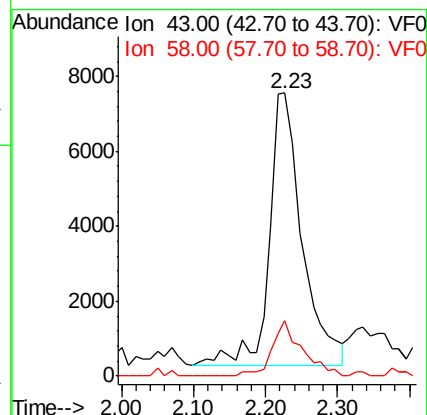
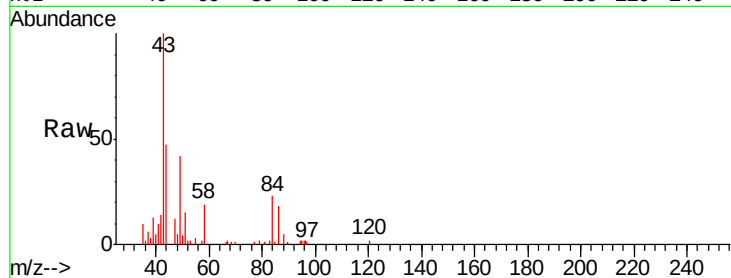
S32-0636

Tgt Ion: 43 Resp: 23072

Ion Ratio Lower Upper

43 100

58 19.4 11.1 16.7#



#18

Methyl Acetate

Concen: 2.946 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF061213.D

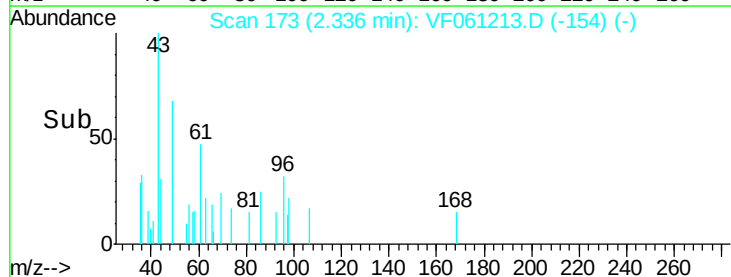
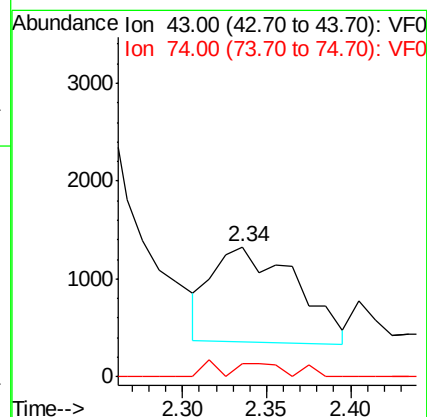
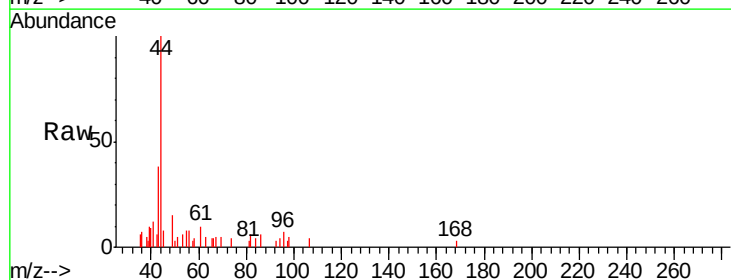
Acq: 27 Dec 2018 17:38

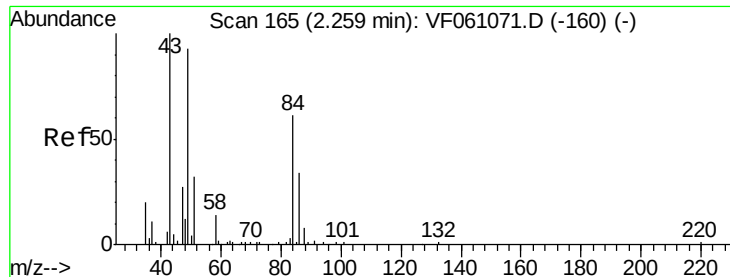
Tgt Ion: 43 Resp: 3358

Ion Ratio Lower Upper

43 100

74 10.2 11.0 16.6#

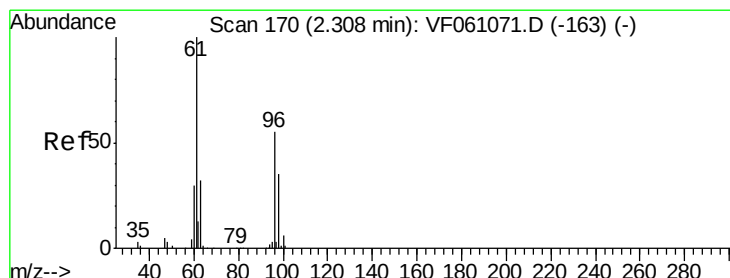
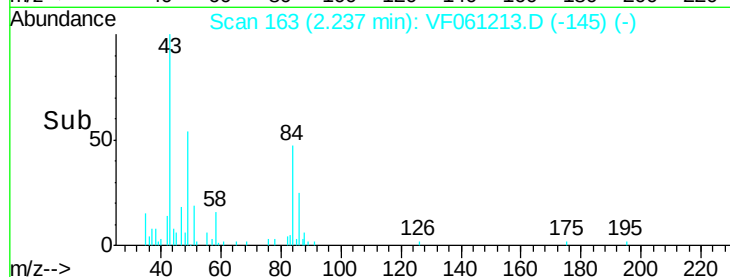
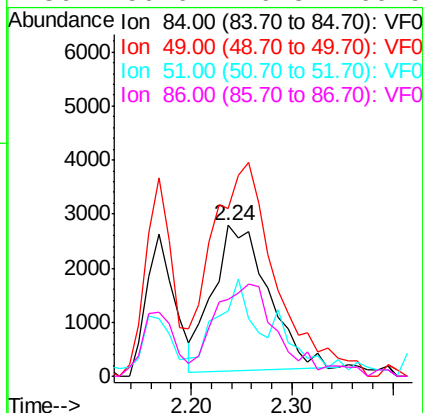
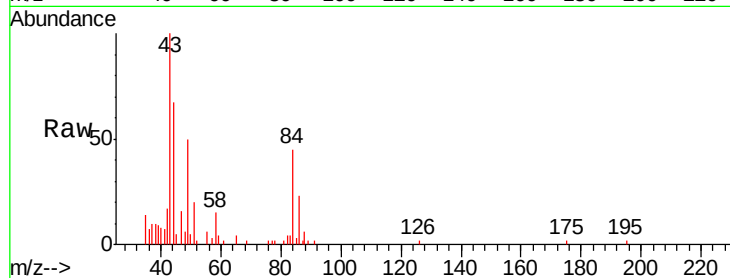




#20
Methylene Chloride
Concen: 1.499 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061213.D
Acq: 27 Dec 2018 17:38

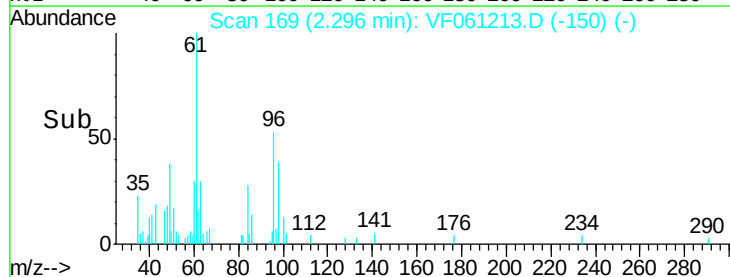
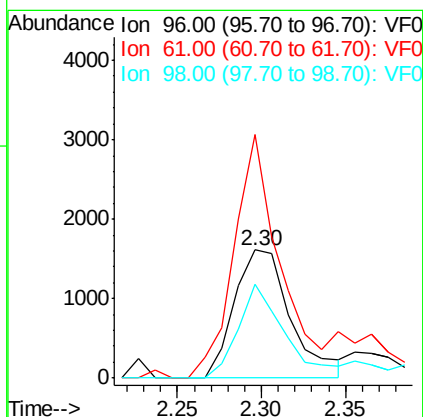
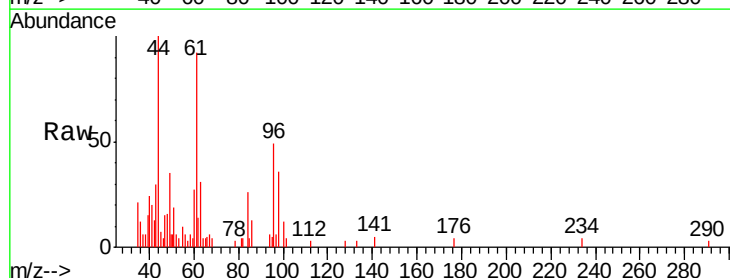
Instrument :
MSVOA_F
ClientSampleId :
S32-0636

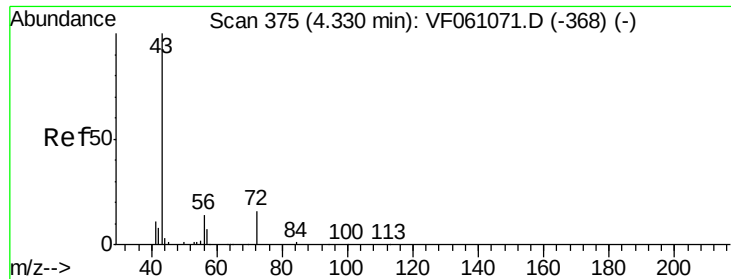
Tgt Ion: 84 Resp: 10309
Ion Ratio Lower Upper
84 100
49 111.4 129.4 194.2#
51 43.7 44.0 66.0#
86 50.6 46.3 69.5



#21
trans-1,2-Dichloroethene
Concen: 1.865 ug/l
RT: 2.30 min Scan# 169
Delta R.T. -0.01 min
Lab File: VF061213.D
Acq: 27 Dec 2018 17:38

Tgt Ion: 96 Resp: 3768
Ion Ratio Lower Upper
96 100
61 189.8 146.0 219.0
98 73.7 51.6 77.4





#25

2-Butanone

Concen: 3.076 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

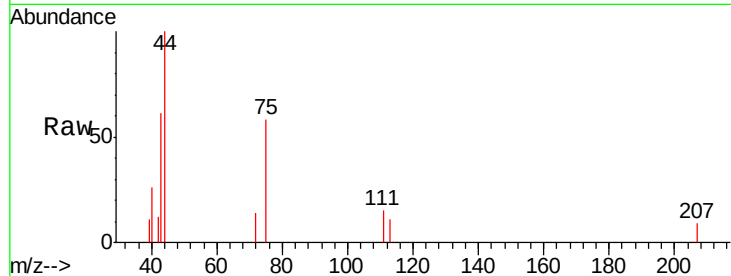
S32-0636

Tgt Ion: 43 Resp: 2748

Ion Ratio Lower Upper

43 100

72 22.0 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.32

800

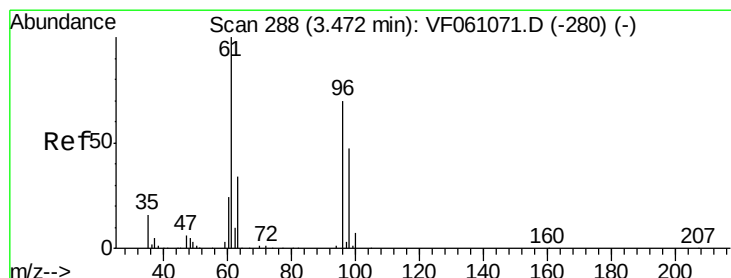
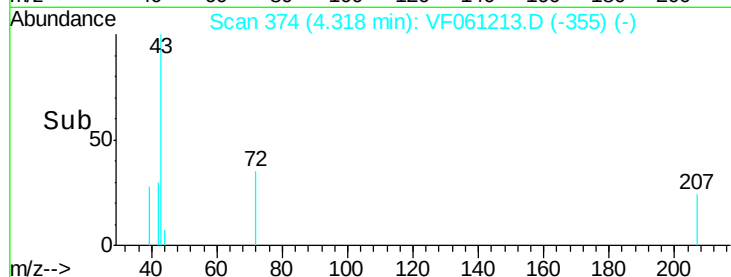
600

400

200

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 3.566 ug/l

RT: 3.45 min Scan# 286

Delta R.T. -0.02 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

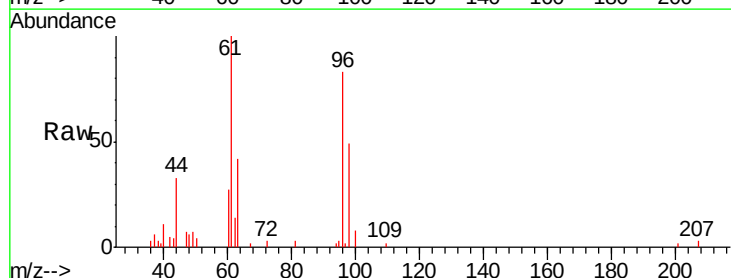
Tgt Ion: 96 Resp: 11029

Ion Ratio Lower Upper

96 100

61 120.1 0.0 287.8

98 58.9 0.0 134.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

8000

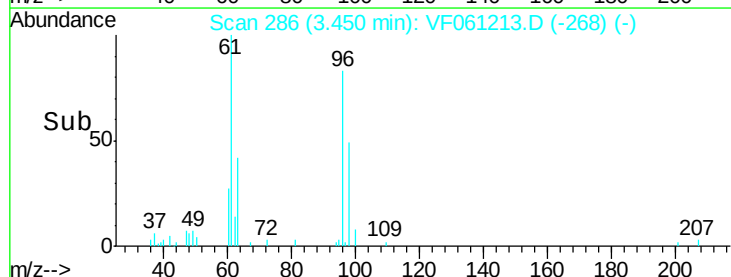
6000

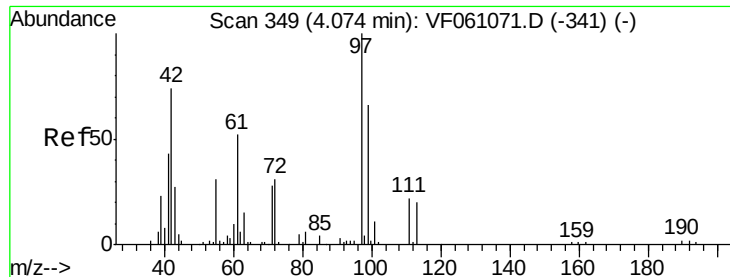
4000

2000

0

Time-->





#29

Tetrahydrofuran

Concen: 1.006 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

S32-0636

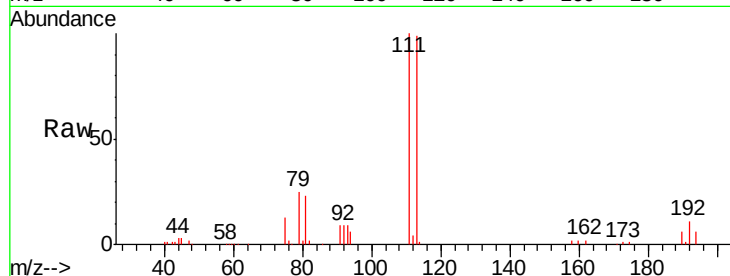
Tgt Ion: 42 Resp: 366

Ion Ratio Lower Upper

42 100

72 21.6 31.8 47.8#

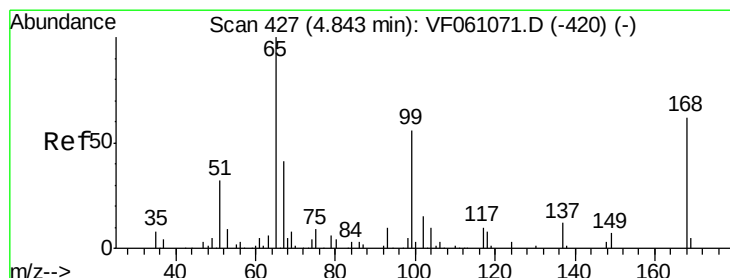
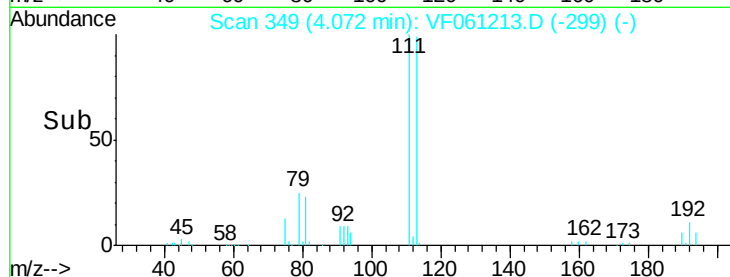
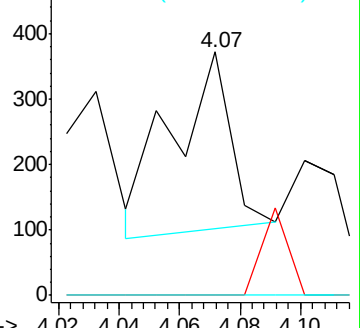
71 0.0 29.7 44.5#



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: 53.091 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF061213.D

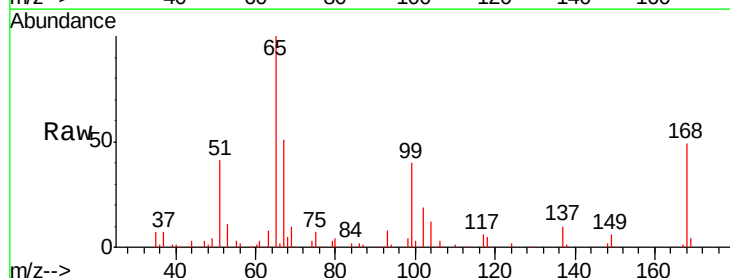
Acq: 27 Dec 2018 17:38

Tgt Ion: 65 Resp: 146301

Ion Ratio Lower Upper

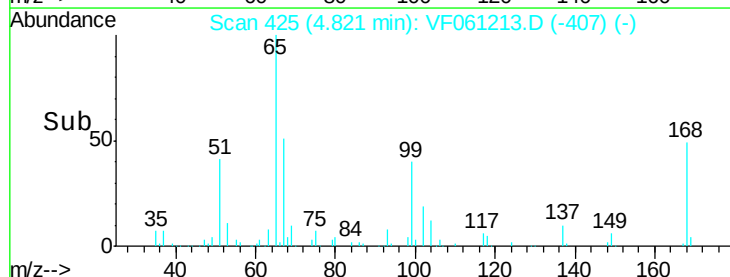
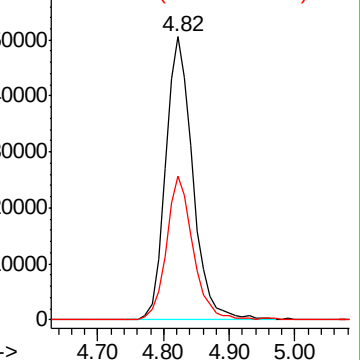
65 100

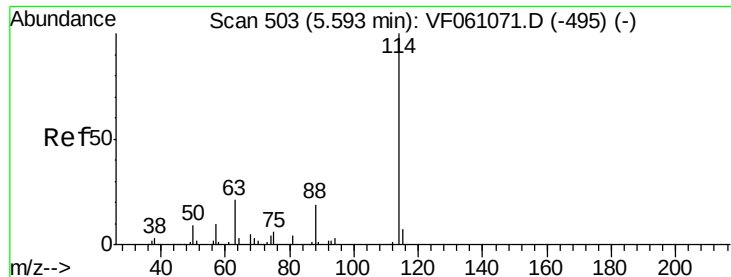
67 51.0 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

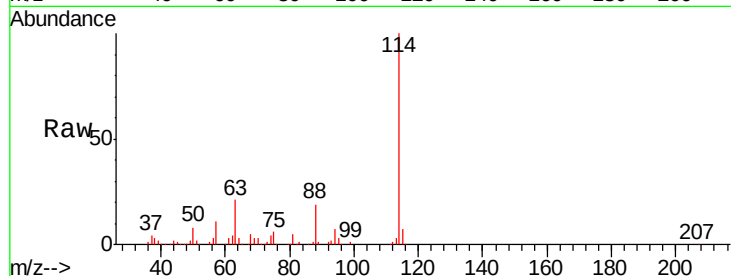




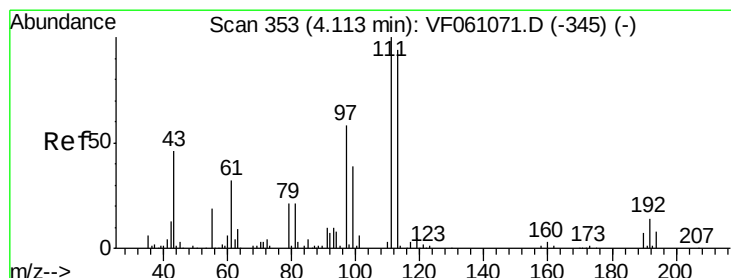
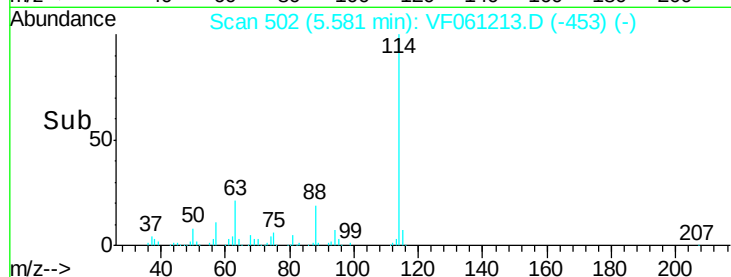
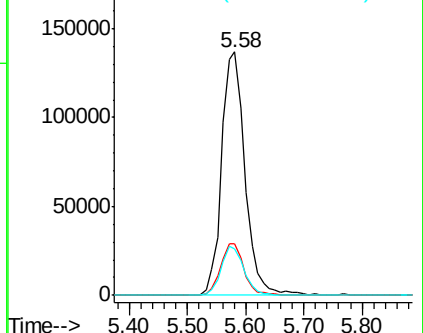
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF061213.D
 Acq: 27 Dec 2018 17:38

Instrument :
 MSVOA_F
 ClientSampleId :
 S32-0636

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.6
88	19.3	0.0	38.0

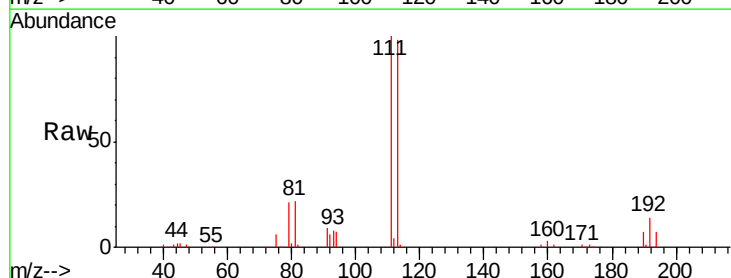


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

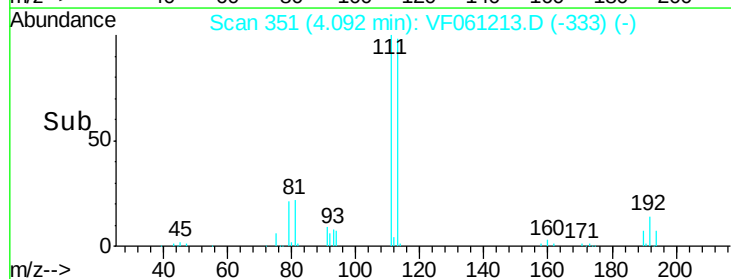
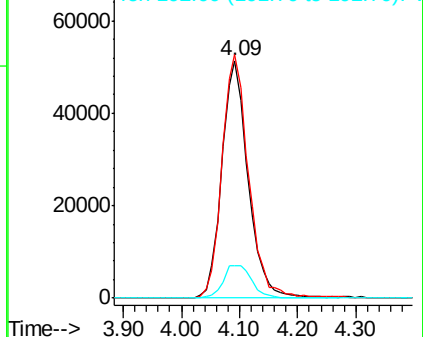


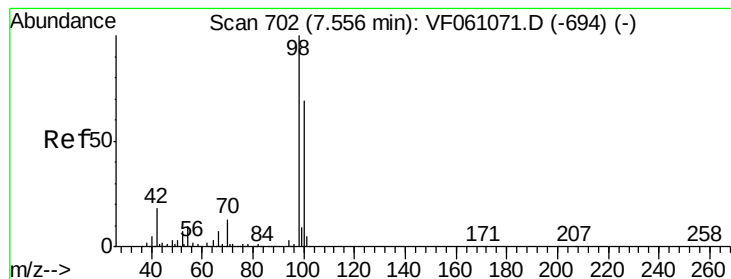
#35
 Dibromofluoromethane
 Concen: 52.576 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061213.D
 Acq: 27 Dec 2018 17:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	85.2	127.8
192	13.9	12.8	19.2



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: 45.442 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

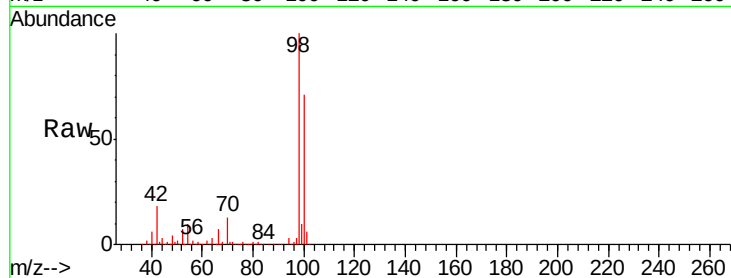
S32-0636

Tgt Ion: 98 Resp: 395190

Ion Ratio Lower Upper

98 100

100 70.5 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

200000

150000

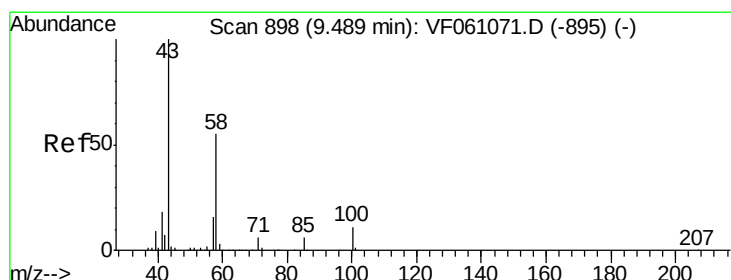
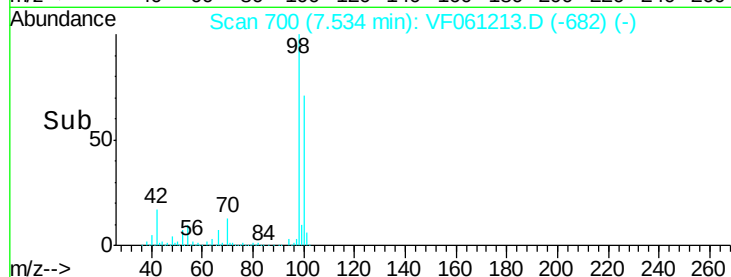
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#59

2-Hexanone

Concen: 1.548 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.02 min

Lab File: VF061213.D

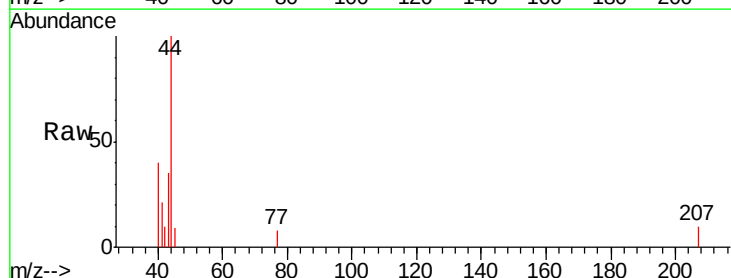
Acq: 27 Dec 2018 17:38

Tgt Ion: 43 Resp: 1714

Ion Ratio Lower Upper

43 100

58 0.0 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

300

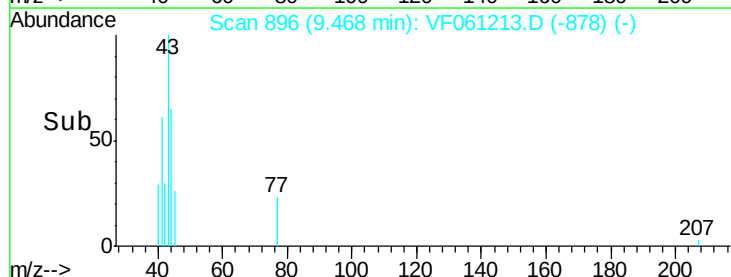
200

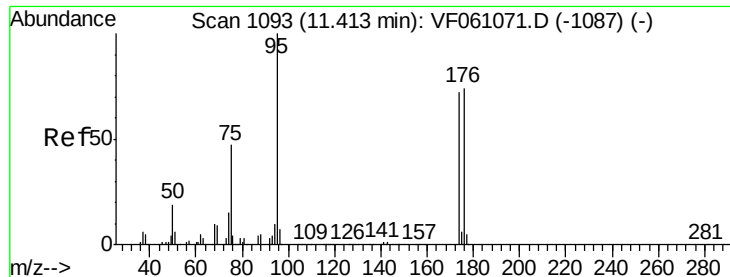
100

0

9.40 9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 49.147 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

S32-0636

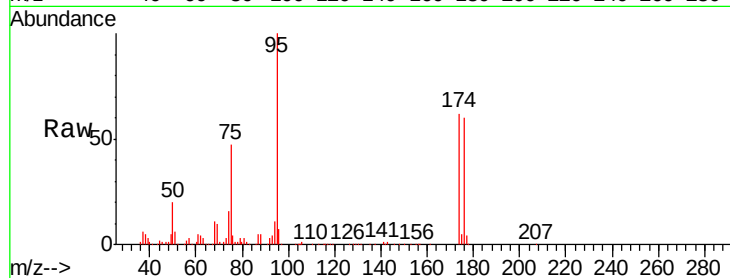
Tgt Ion: 95 Resp: 197044

Ion Ratio Lower Upper

95 100

174 62.1 0.0 143.8

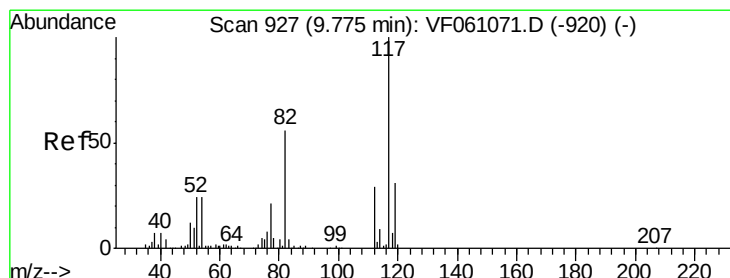
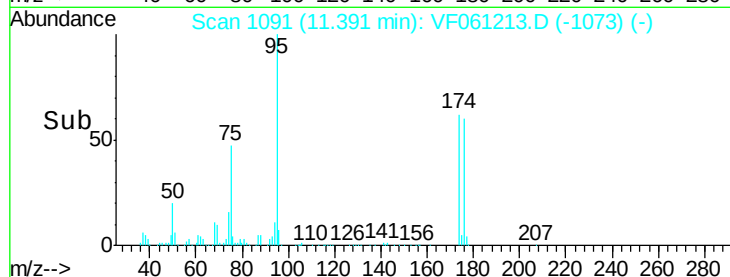
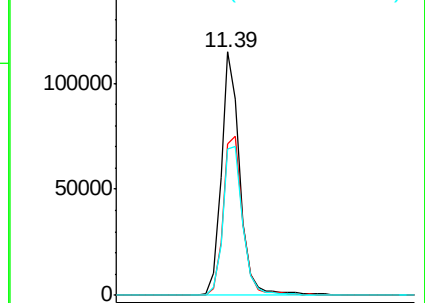
176 59.9 0.0 147.6



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: 9.75 min Scan# 925

Delta R.T. -0.02 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

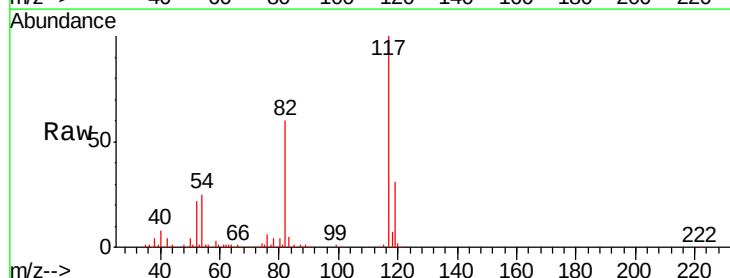
Tgt Ion: 117 Resp: 362801

Ion Ratio Lower Upper

117 100

82 59.6 45.0 67.4

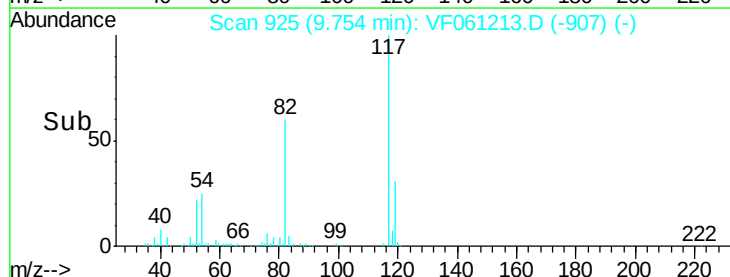
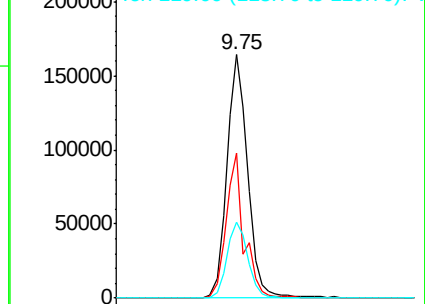
119 31.1 24.8 37.2

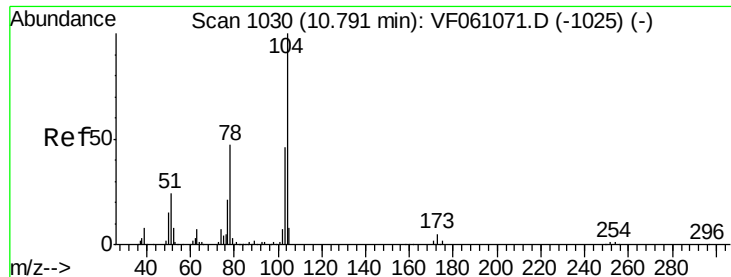


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Styrene

Concen: Below Cal

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

Instrument :

MSVOA_F

ClientSampleId :

S32-0636

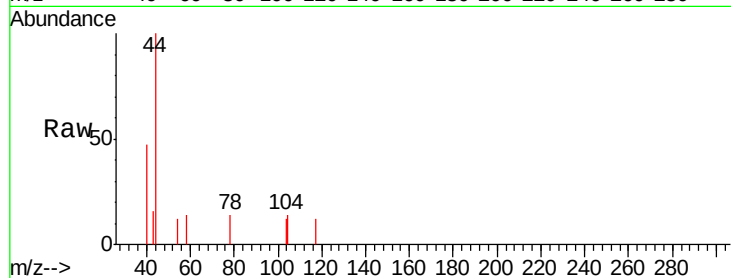
Tgt Ion:104 Resp: 327

Ion Ratio Lower Upper

104 100

78 53.5 38.4 57.6

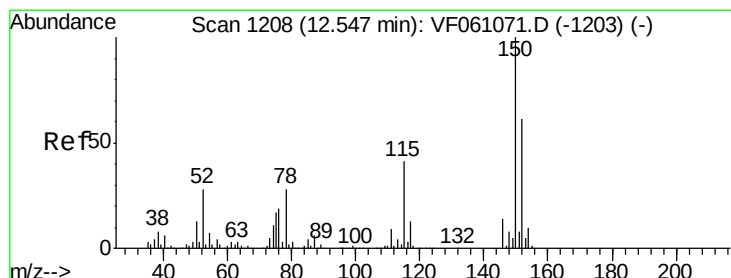
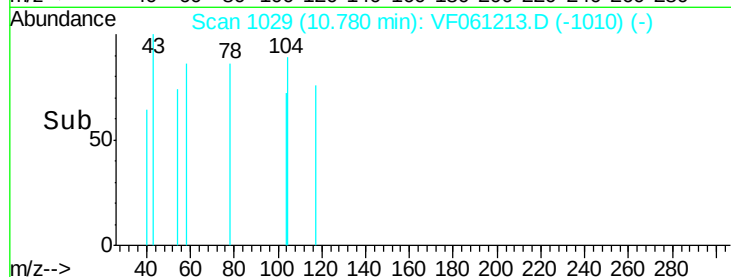
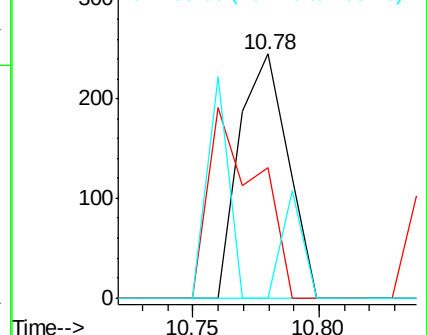
103 0.0 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061213.D

Acq: 27 Dec 2018 17:38

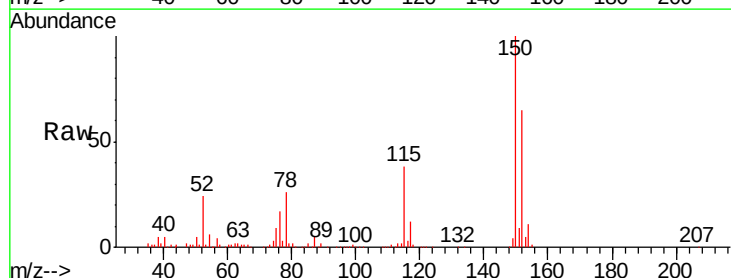
Tgt Ion:152 Resp: 202909

Ion Ratio Lower Upper

152 100

115 58.8 33.3 99.9

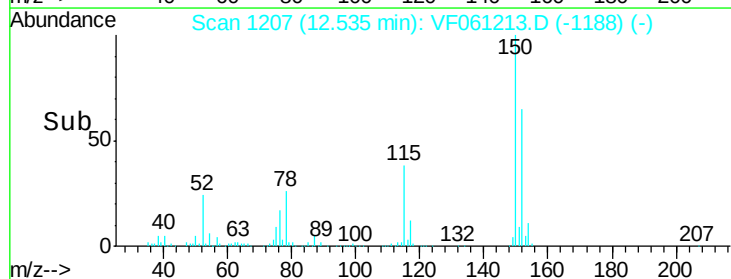
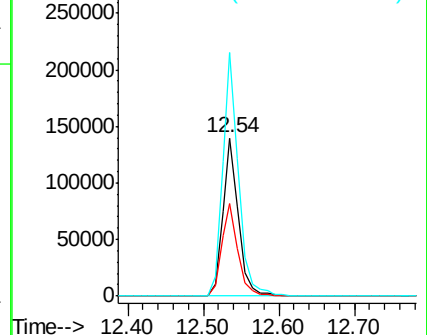
150 154.1 0.0 328.2

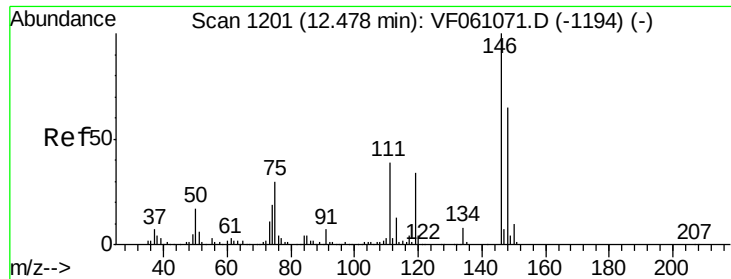


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061213.D
 Acq: 27 Dec 2018 17:38

Instrument :
 MSVOA_F
 ClientSampleId :
 S32-0636

Tgt Ion	Ratio	Lower	Upper
146	100		
111	87.4	19.3	57.9#
148	0.0	32.4	97.2#

