

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061145.D
 Acq On : 22 Dec 2018 15:31
 Operator : VA/AP
 Sample : J6518-01RE
 Misc : 5.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:56:51 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

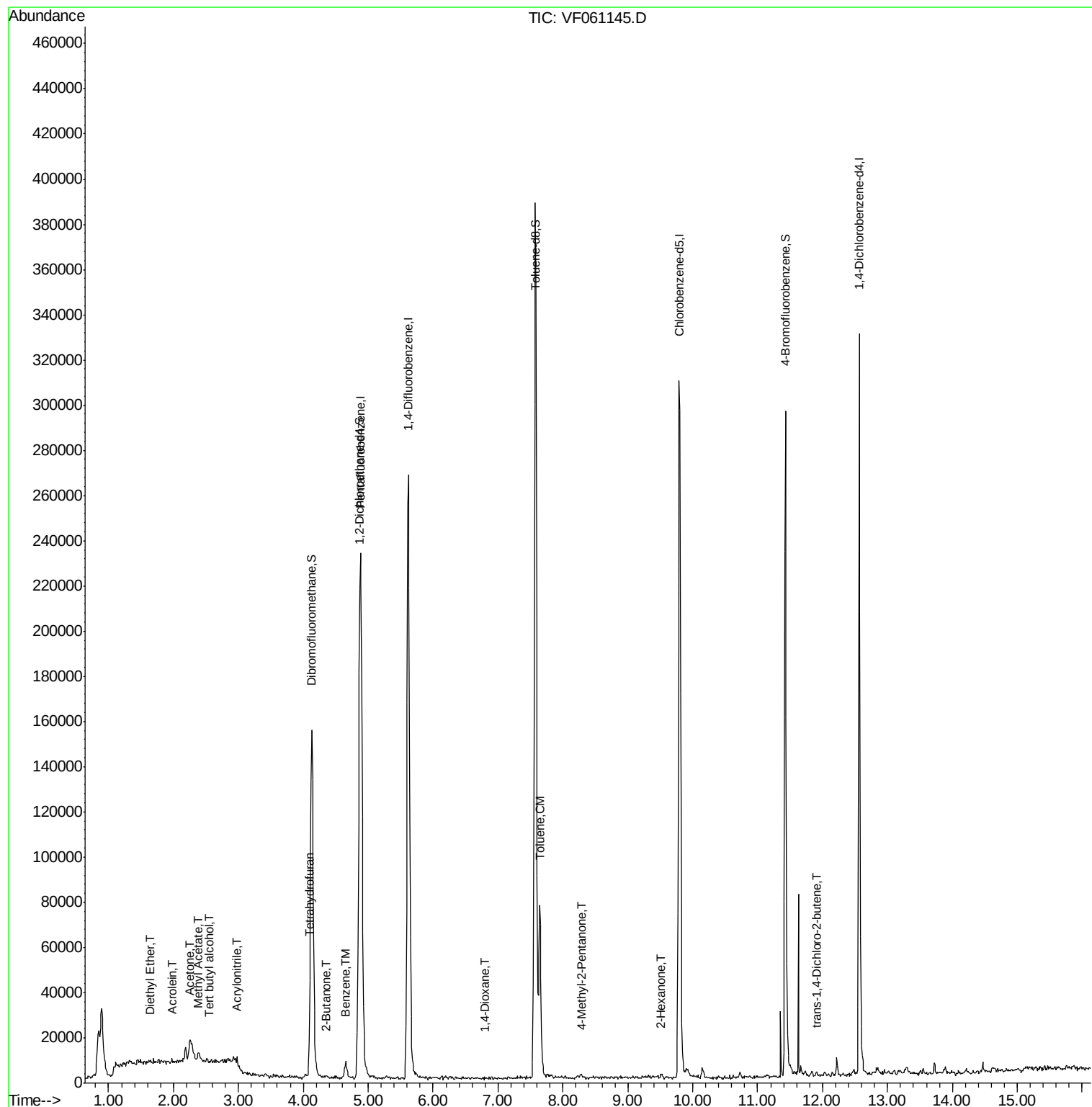
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	160350	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	309328	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.79	117	221871	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	73892	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	130963	63.50	ug/l	0.02
Spiked Amount 50.000			Recovery	=	127.00%	
35) Dibromofluoromethane	4.13	113	144599	58.36	ug/l	0.02
Spiked Amount 50.000			Recovery	=	116.72%	
50) Toluene-d8	7.57	98	333547	47.50	ug/l	0.02
Spiked Amount 50.000			Recovery	=	95.00%	
62) 4-Bromofluorobenzene	11.43	95	113630	35.10	ug/l	0.02
Spiked Amount 50.000			Recovery	=	70.20%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	672	1.357	ug/l	91
11) Tert butyl alcohol	2.56	59	165	1.983	ug/l #	1
13) Acrolein	1.97	56	605	10.060	ug/l #	35
15) Acrylonitrile	2.98	53	667	3.466	ug/l #	30
16) Acetone	2.25	43	7796	18.909	ug/l #	93
18) Methyl Acetate	2.37	43	2077	2.435	ug/l	97
25) 2-Butanone	4.35	43	1499	2.242	ug/l #	68
29) Tetrahydrofuran	4.09	42	1110	4.079	ug/l #	49
40) Benzene	4.65	78	9138	1.138	ug/l	94
49) 1,4-Dioxane	6.79	88	86	9.417	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	1646	1.331	ug/l #	86
52) Toluene	7.64	92	38616	7.265	ug/l	85
59) 2-Hexanone	9.52	43	2153	2.408	ug/l #	57
70) Styrene	10.80	104	188	Below Cal	#	30
78) n-propylbenzene	11.61	91	1094	Below Cal	#	62
81) trans-1,4-Dichloro-2-buten	11.89	75	425	1.258	ug/l #	11
87) 1,3-Dichlorobenzene	12.49	146	457	Below Cal	#	43

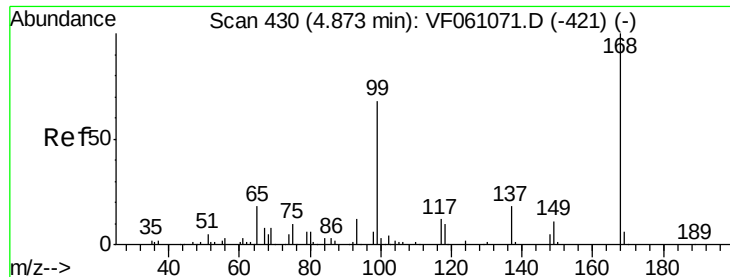
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
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: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

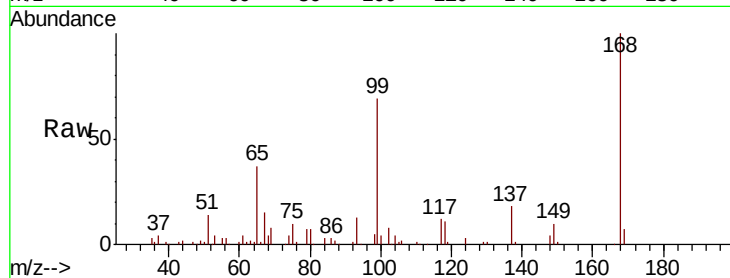
ClientSampled :

Tot Ion:168 Resp: 160350

Ion Ratio Lower Upper

168 100

99 69.1 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

50000

40000

30000

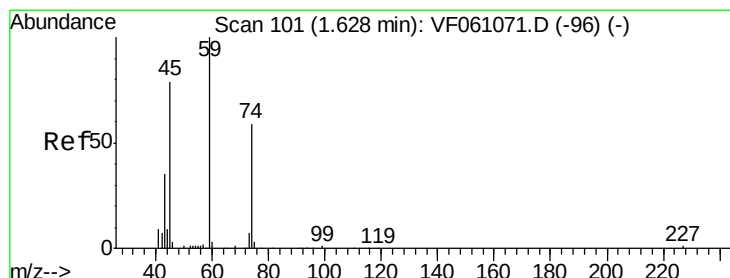
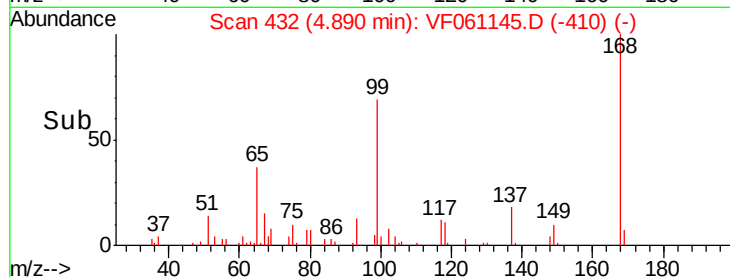
20000

10000

0

Time-->

4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.357 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061145.D

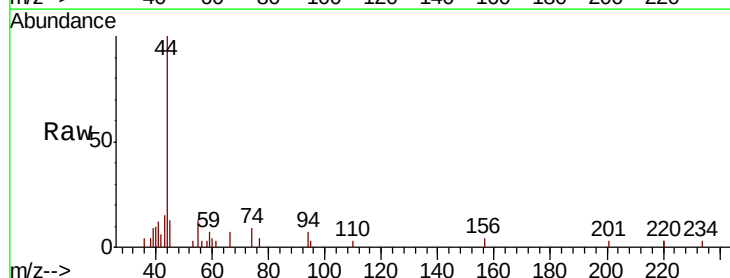
Acq: 22 Dec 2018 15:31

Tgt Ion: 74 Resp: 672

Ion Ratio Lower Upper

74 100

45 146.8 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.64

500

400

300

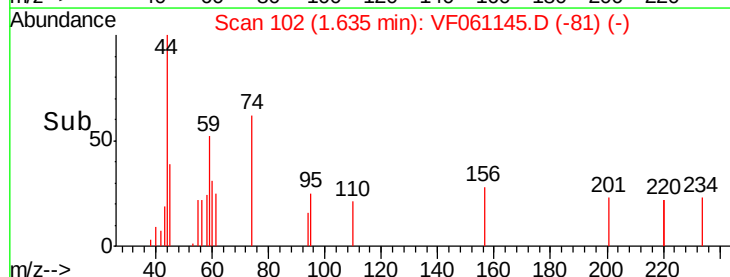
200

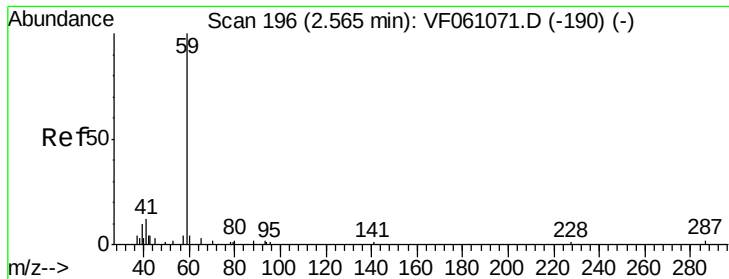
100

0

Time-->

1.55 1.60 1.65 1.70



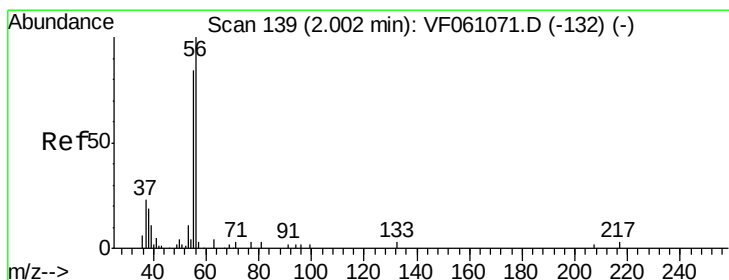
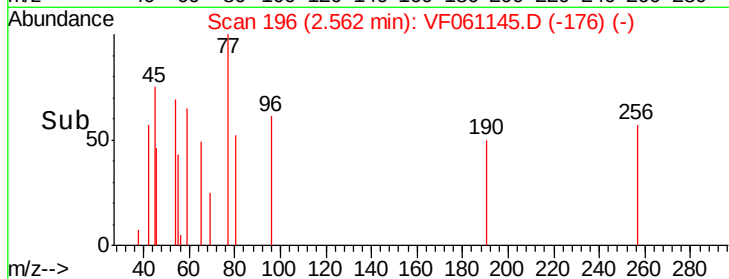
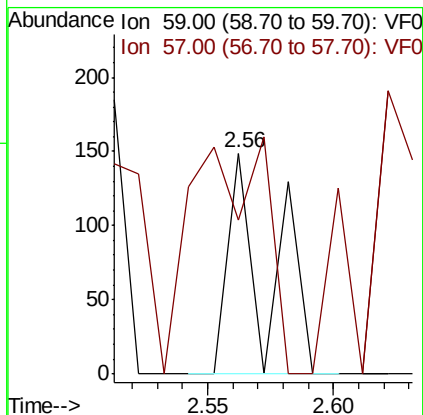
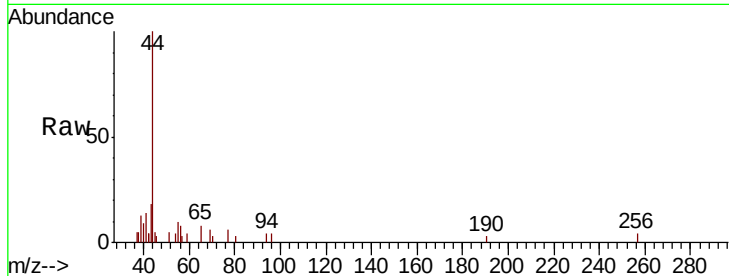


#11

Tert butyl alcohol
 Concen: 1.983 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.00 min
 Lab File: VF061145.D
 Acq: 22 Dec 2018 15:31

Instrument :
 MSVOA_F
 ClientSampleId :

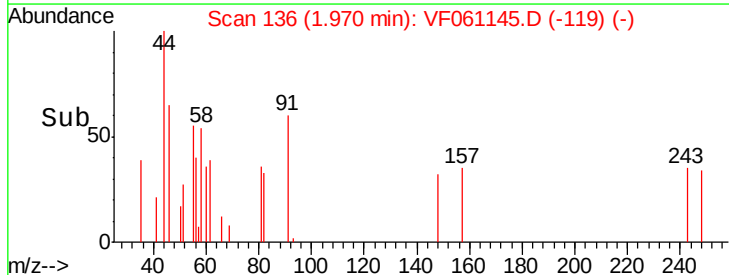
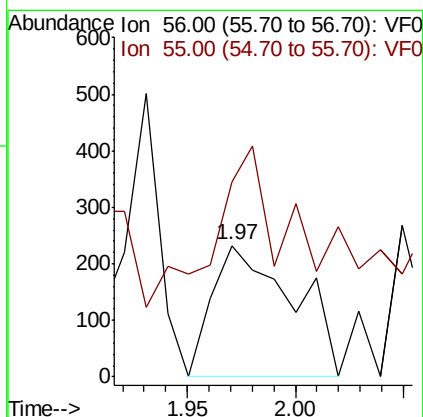
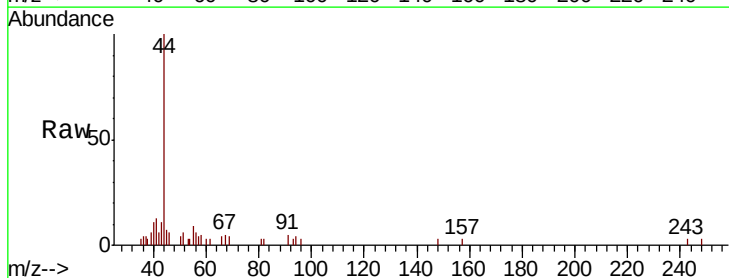
Tot Ion: 59 Resp: 165
 Ion Ratio Lower Upper
 59 100
 57 69.8 11.5 17.3#

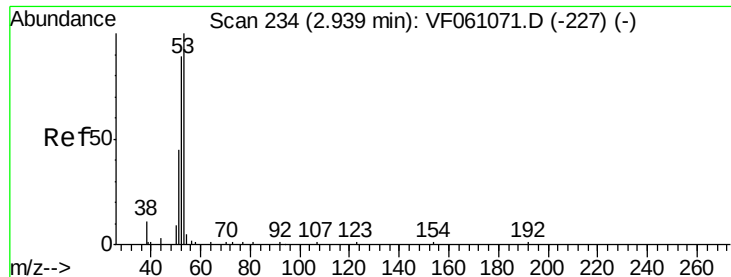


#13

Acrolein
 Concen: 10.060 ug/l
 RT: 1.97 min Scan# 136
 Delta R.T. -0.03 min
 Lab File: VF061145.D
 Acq: 22 Dec 2018 15:31

Tgt Ion: 56 Resp: 605
 Ion Ratio Lower Upper
 56 100
 55 148.1 70.2 105.2#





#15

Acrylonitrile

Concen: 3.466 ug/l

RT: 2.98 min Scan# 238

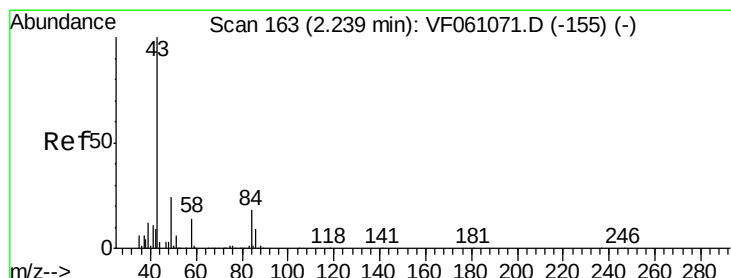
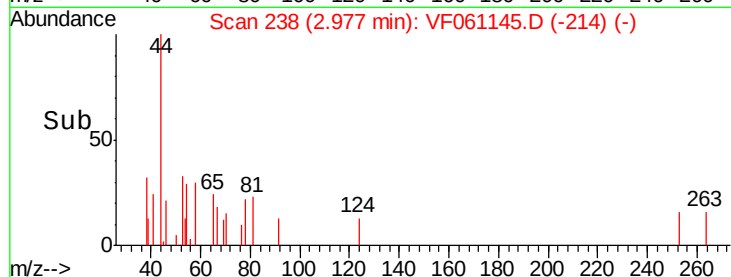
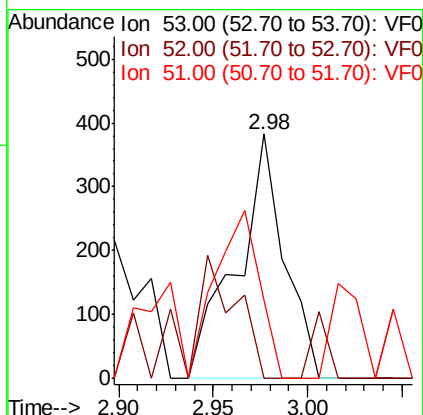
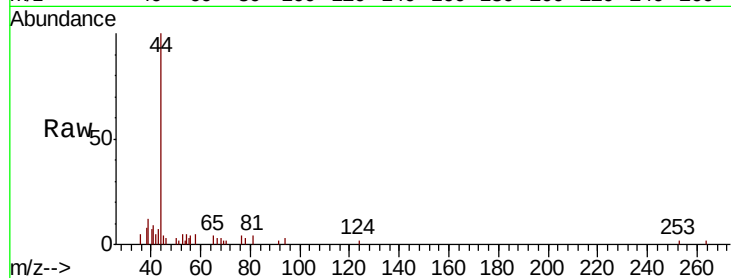
Delta R.T. 0.04 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	667
Ion	Ratio	Lower	Upper
53	100		
52	0.0	71.3	106.9#
51	31.9	36.8	55.2#



#16

Acetone

Concen: 18.909 ug/l

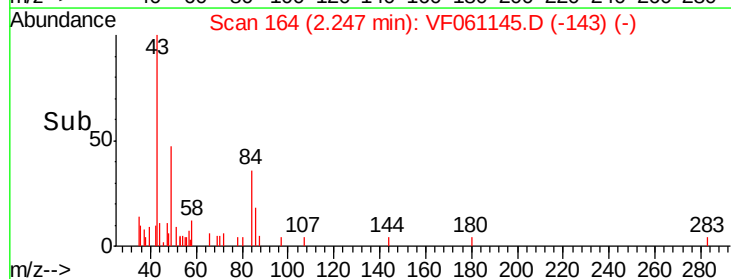
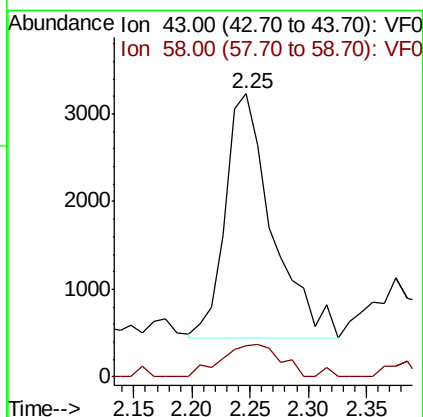
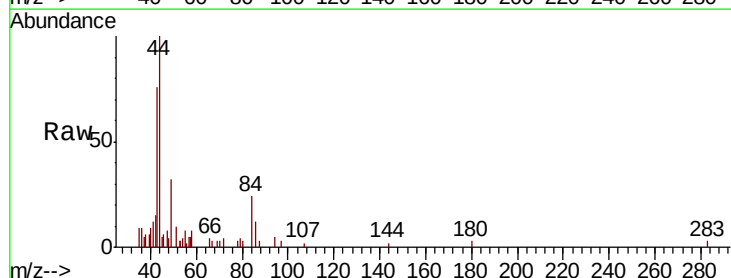
RT: 2.25 min Scan# 164

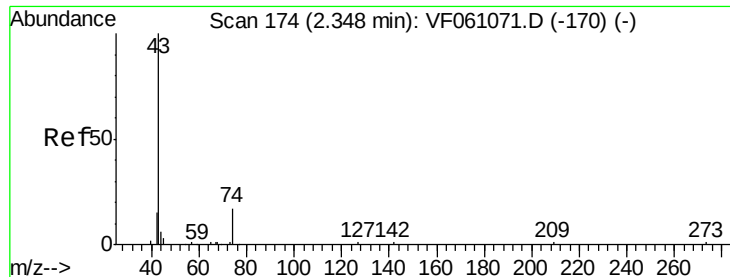
Delta R.T. 0.01 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Tgt Ion:	43	Resp:	7796
Ion	Ratio	Lower	Upper
43	100		
58	11.0	11.1	16.7#

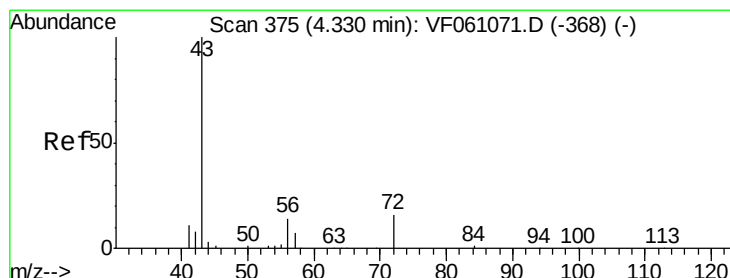
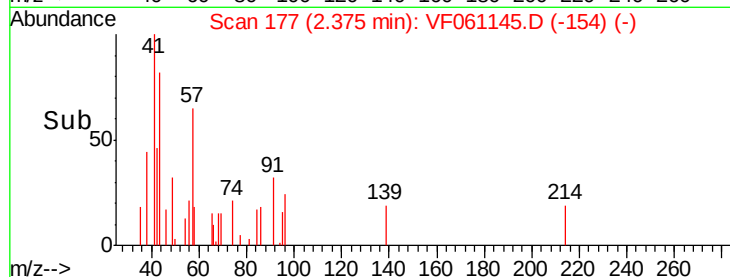
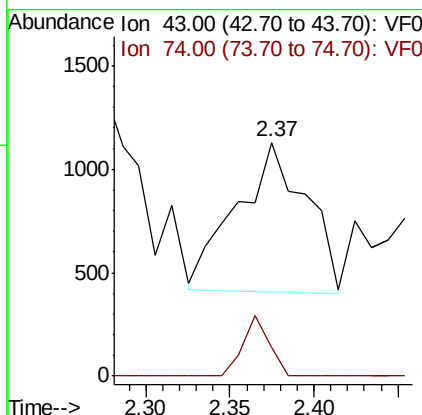
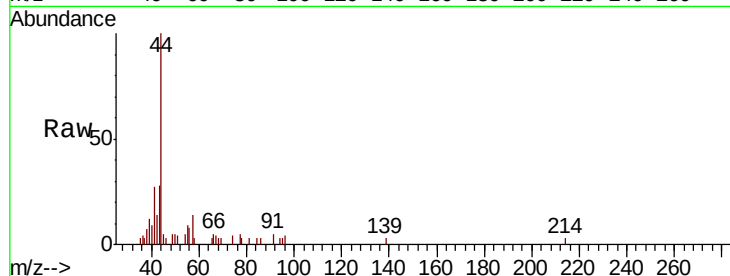




#18
Methvl Acetate
Concen: 2.435 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061145.D
Acq: 22 Dec 2018 15:31

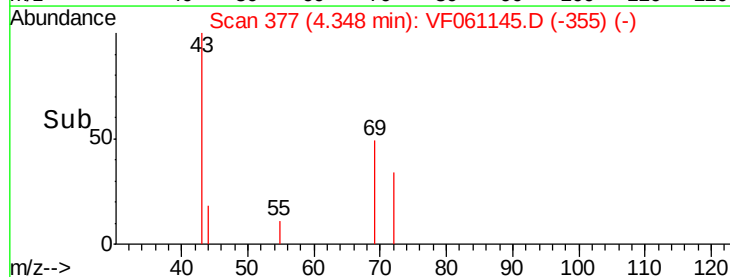
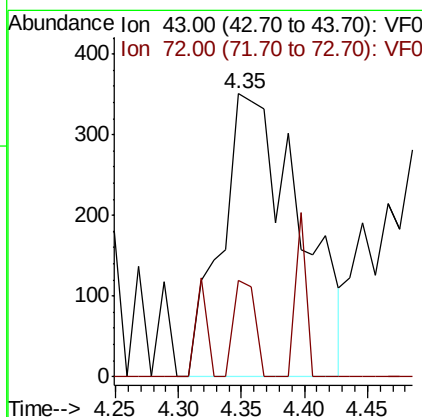
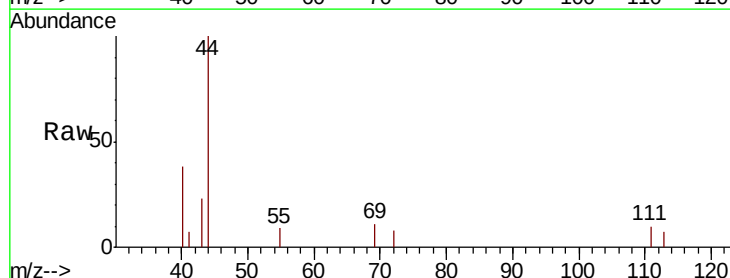
Instrument :
MSVOA_F
ClientSampled :

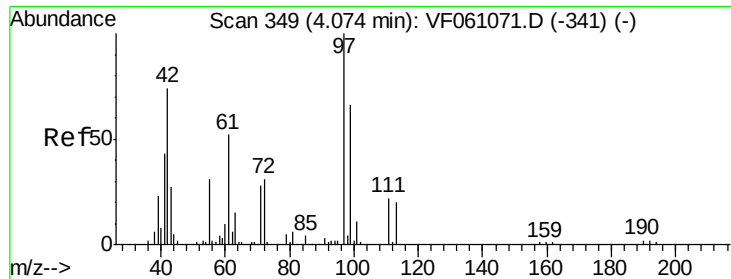
Tot Ion: 43 Resp: 2077
Ion Ratio Lower Upper
43 100
74 12.5 11.0 16.6



#25
2-Butanone
Concen: 2.242 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF061145.D
Acq: 22 Dec 2018 15:31

Tgt Ion: 43 Resp: 1499
Ion Ratio Lower Upper
43 100
72 33.9 15.6 23.4#





#29

Tetrahydrofuran

Concen: 4.079 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

ClientSampleId :

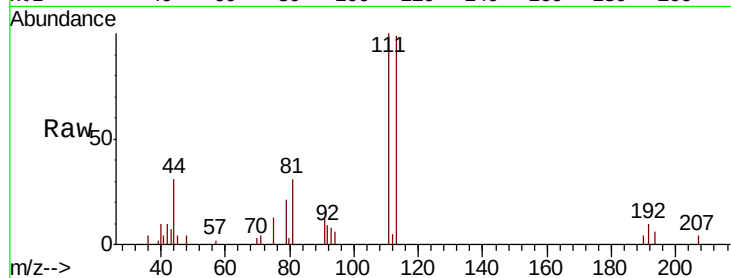
Tot Ion: 42 Resp: 1110

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

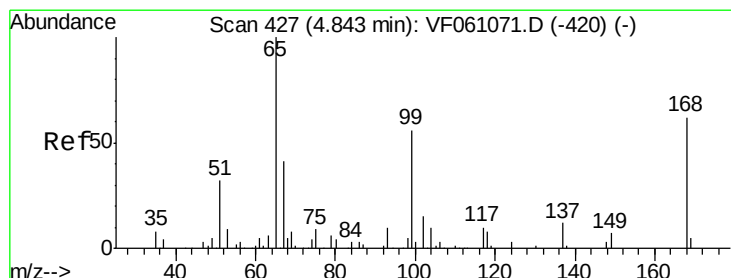
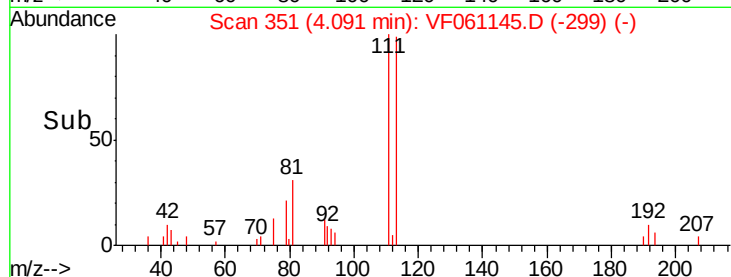
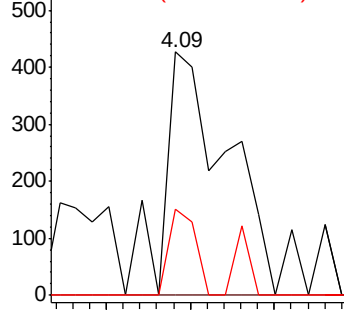
71 14.9 29.7 44.5#



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: 63.501 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF061145.D

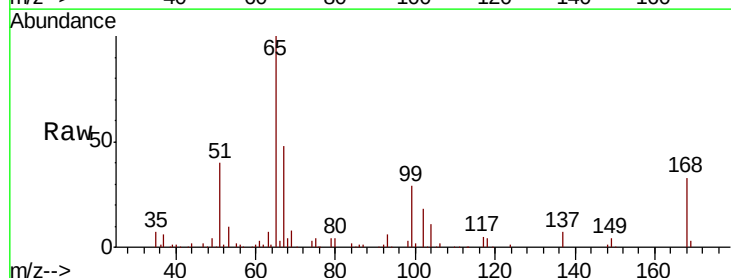
Acq: 22 Dec 2018 15:31

Tgt Ion: 65 Resp: 130963

Ion Ratio Lower Upper

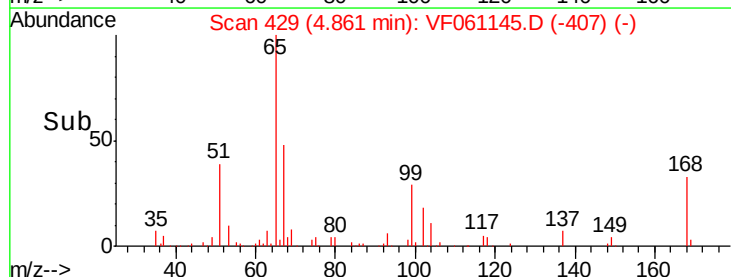
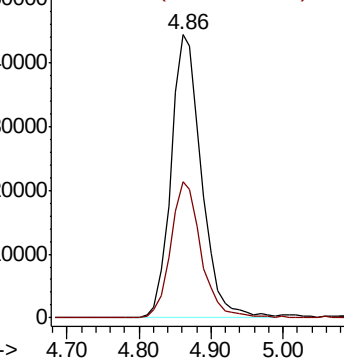
65 100

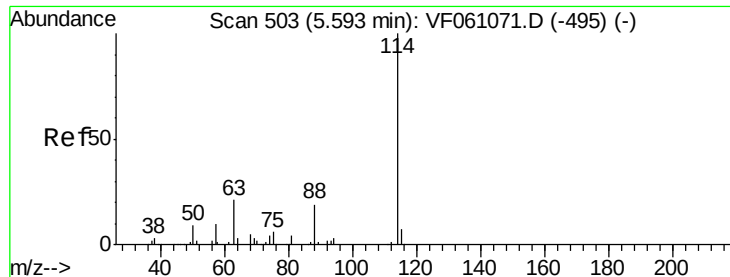
67 47.9 0.0 94.6



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: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

ClientSampleId :

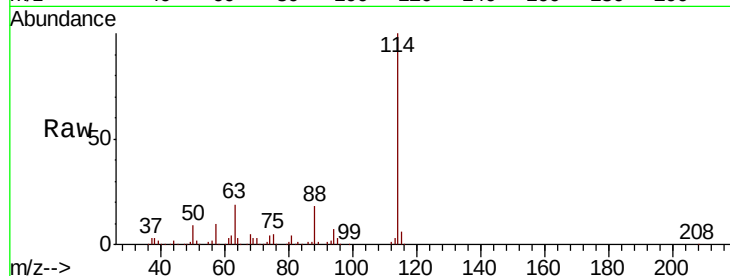
Tot Ion:114 Resp: 309328

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.6

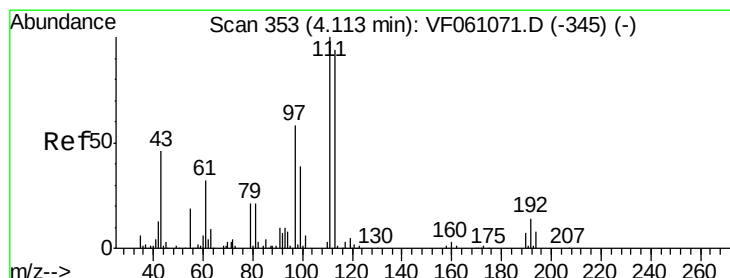
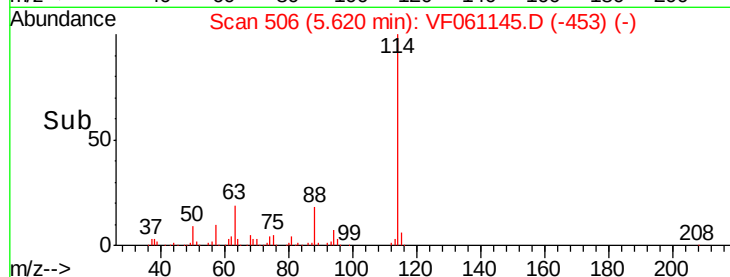
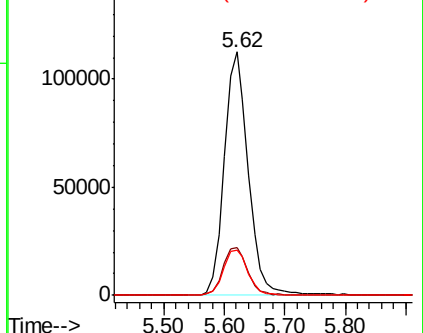
88 18.3 0.0 38.0



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: 58.356 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

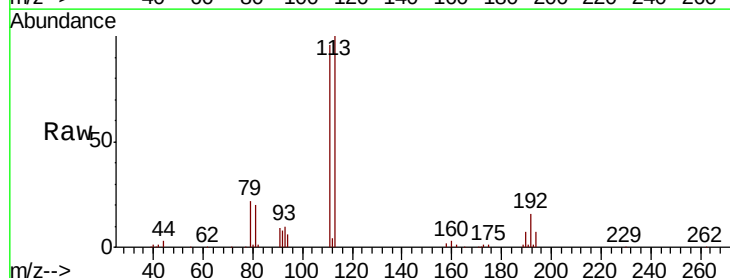
Tgt Ion:113 Resp: 144599

Ion Ratio Lower Upper

113 100

111 96.5 85.2 127.8

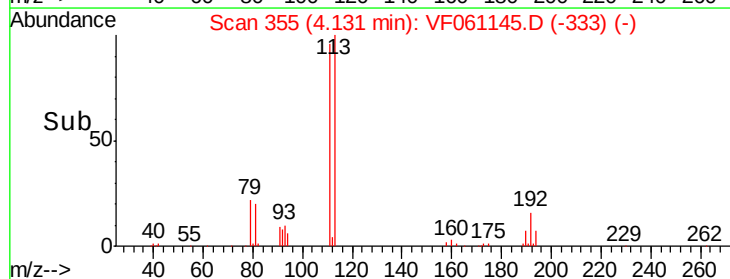
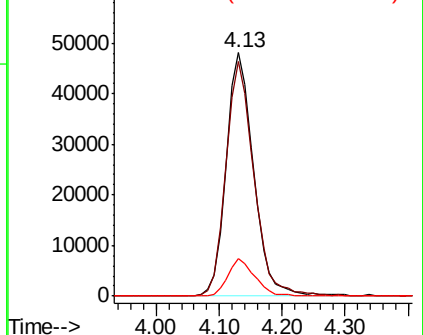
192 16.2 12.8 19.2

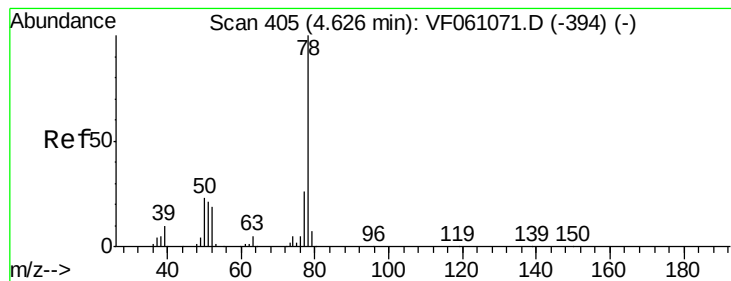


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 1.138 ug/l

RT: 4.65 min Scan# 408

Delta R.T. 0.03 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

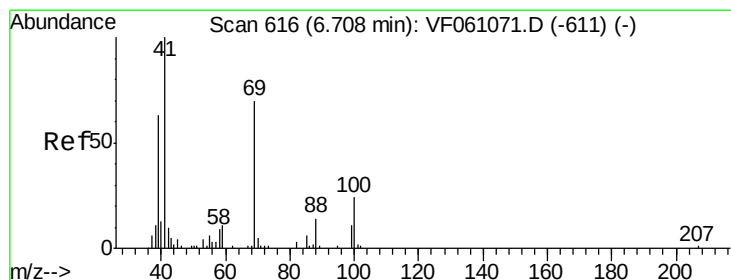
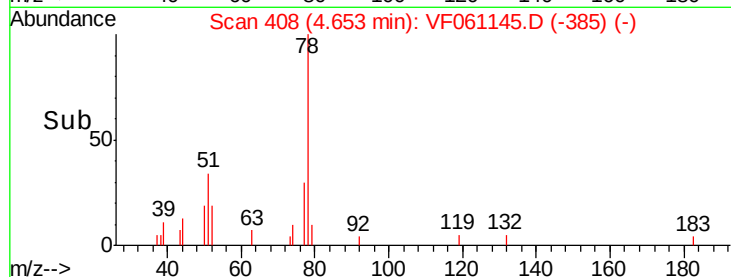
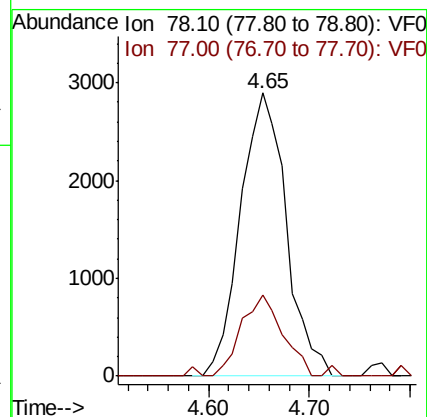
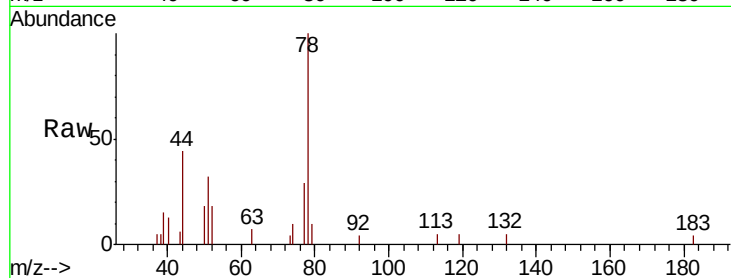
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 9138

Ion Ratio Lower Upper

78 100

77 28.8 20.7 31.1



#49

1,4-Dioxane

Concen: 9.417 ug/l

RT: 6.79 min Scan# 625

Delta R.T. 0.09 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

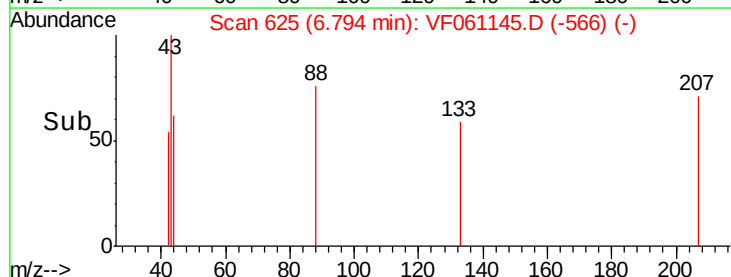
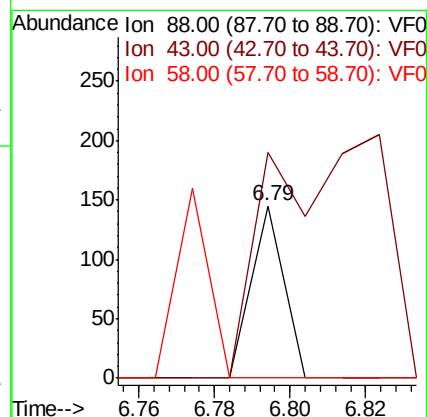
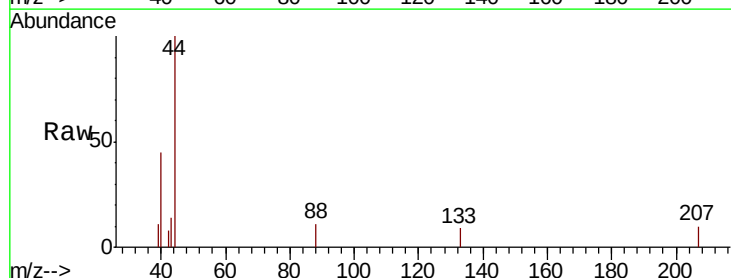
Tgt Ion: 88 Resp: 86

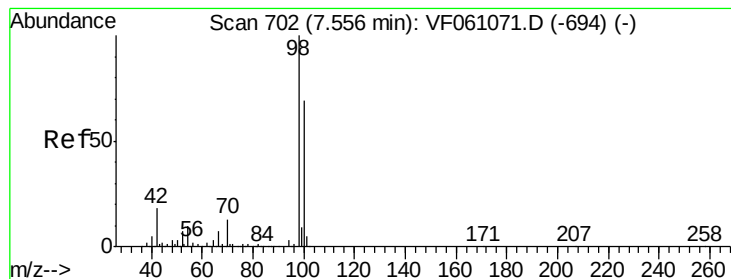
Ion Ratio Lower Upper

88 100

43 131.0 33.3 49.9#

58 0.0 53.2 79.8#





#50

Toluene-d8

Concen: 47.500 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

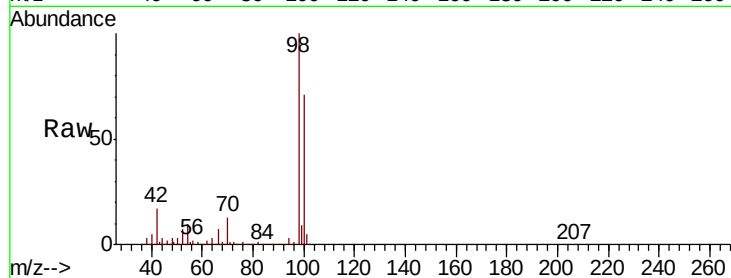
ClientSampled :

Tot Ion: 98 Resp: 333547

Ion Ratio Lower Upper

98 100

100 71.0 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

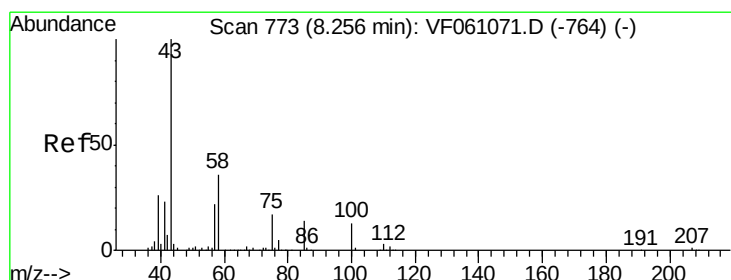
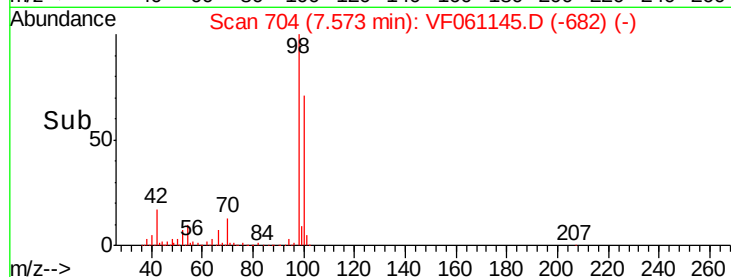
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.331 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061145.D

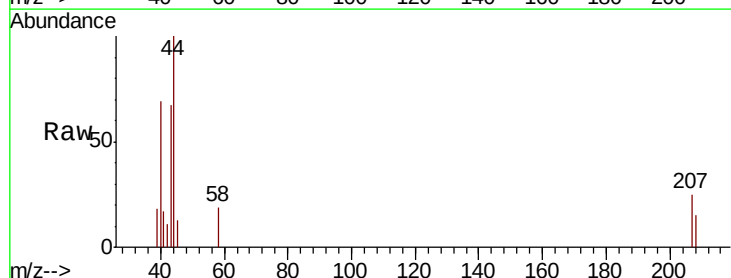
Acq: 22 Dec 2018 15:31

Tgt Ion: 43 Resp: 1646

Ion Ratio Lower Upper

43 100

58 27.9 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

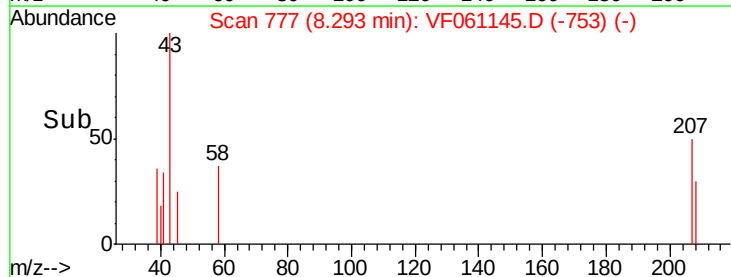
600

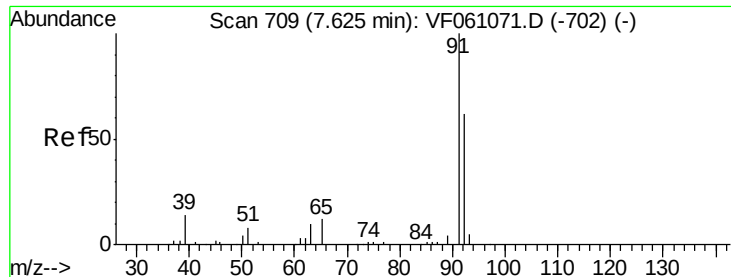
400

200

0

Time--> 8.20 8.25 8.30 8.35





#52

Toluene

Concen: 7.265 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

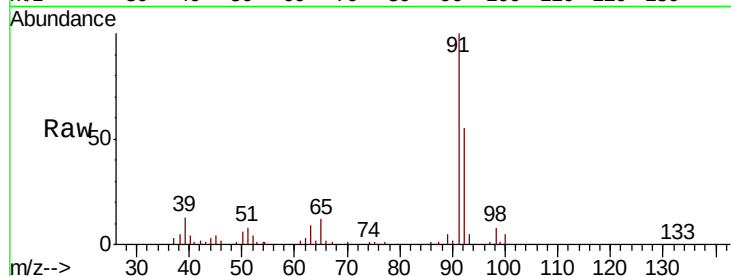
ClientSampled :

Tot Ion: 92 Resp: 38616

Ion Ratio Lower Upper

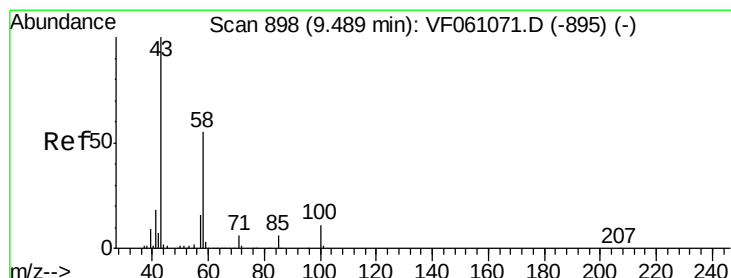
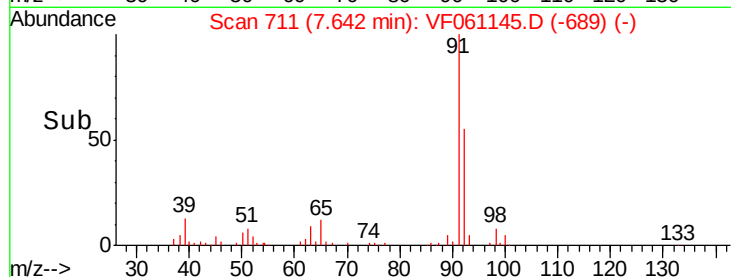
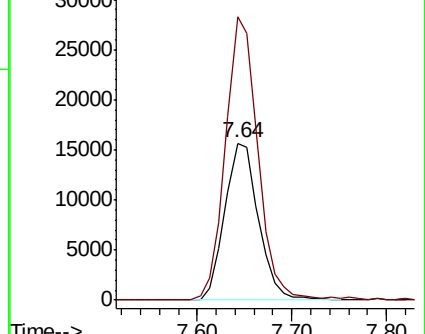
92 100

91 180.7 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 2.408 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.03 min

Lab File: VF061145.D

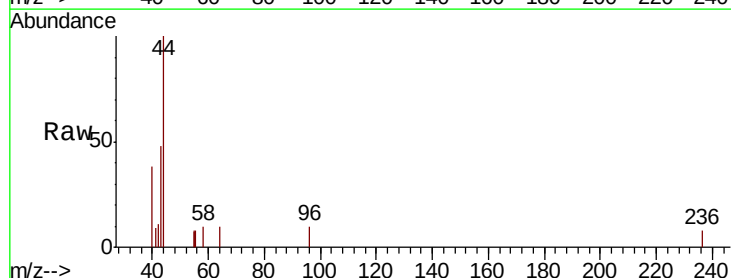
Acq: 22 Dec 2018 15:31

Tgt Ion: 43 Resp: 2153

Ion Ratio Lower Upper

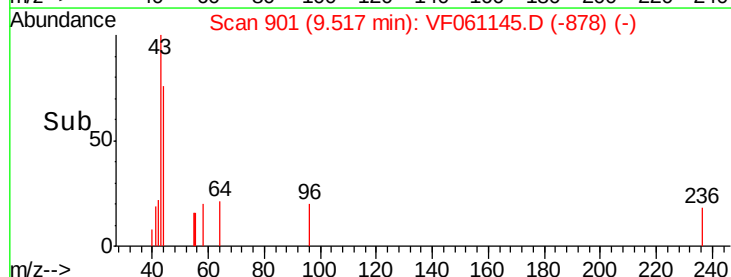
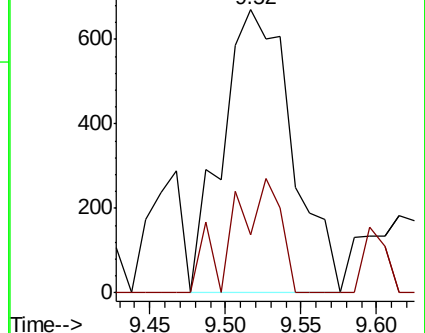
43 100

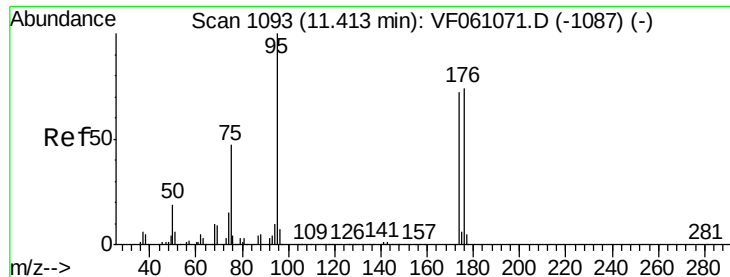
58 20.4 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 35.101 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

ClientSampleId :

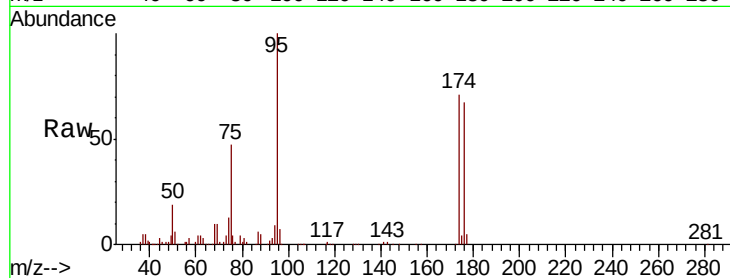
Tot Ion: 95 Resp: 113630

Ion Ratio Lower Upper

95 100

174 70.8 0.0 143.8

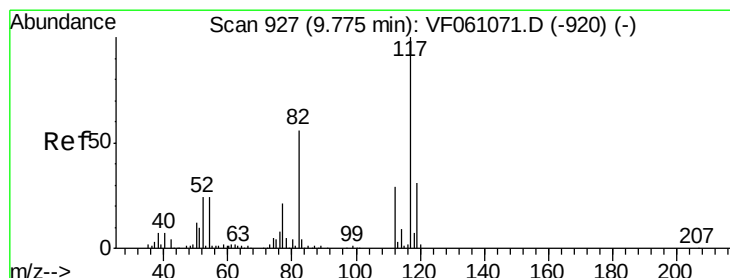
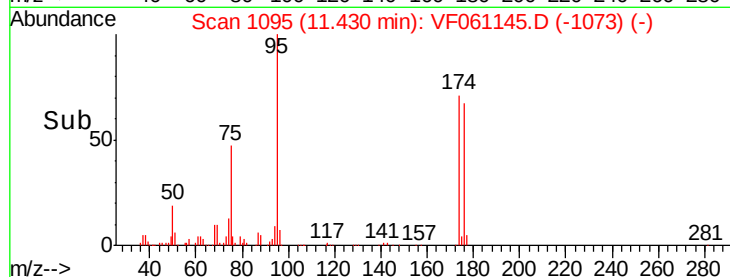
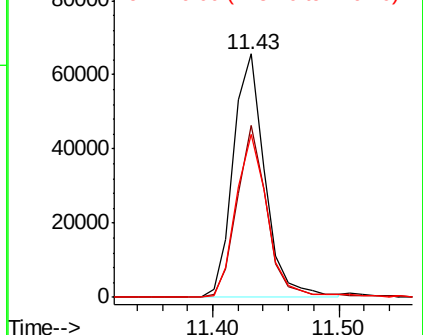
176 67.1 0.0 147.6



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: 9.79 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

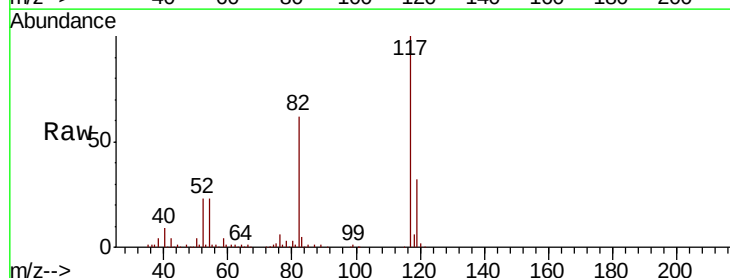
Tgt Ion: 117 Resp: 221871

Ion Ratio Lower Upper

117 100

82 62.1 45.0 67.4

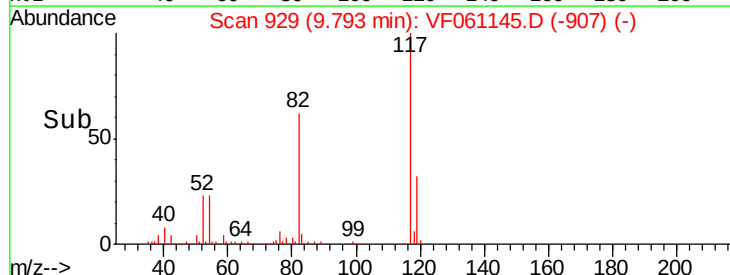
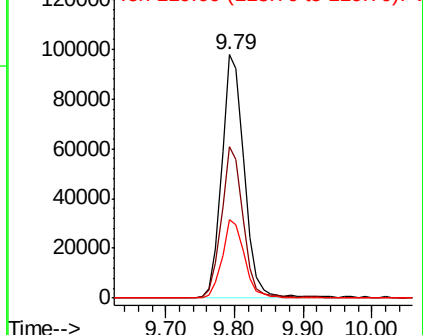
119 32.1 24.8 37.2

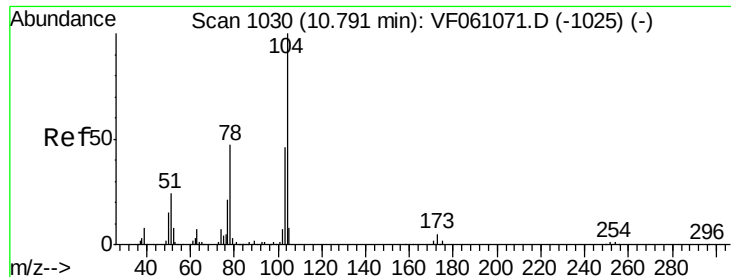


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Stvrene

Concen: Below Cal

RT: 10.80 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

ClientSampleId :

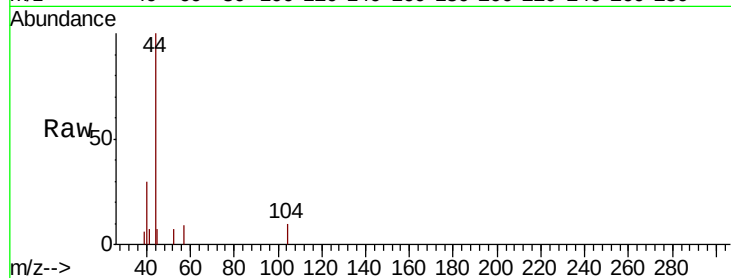
Tot Ion:104 Resp: 188

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

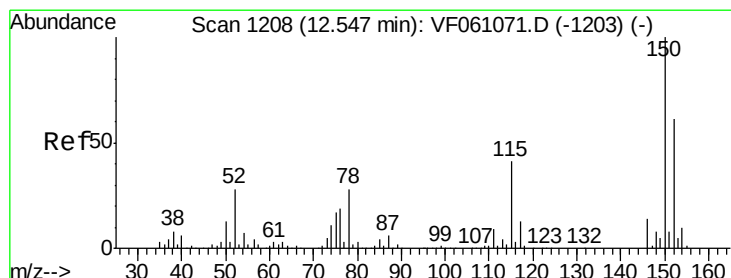
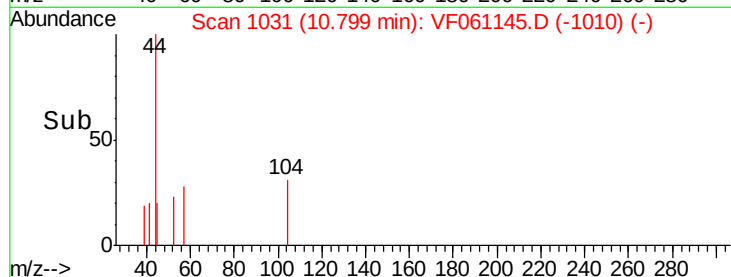
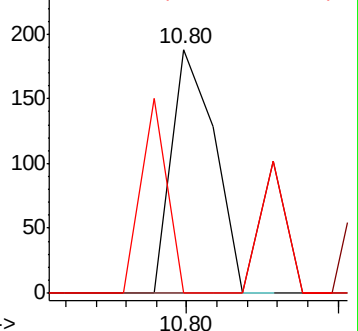
103 0.0 37.0 55.6#



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: 12.56 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

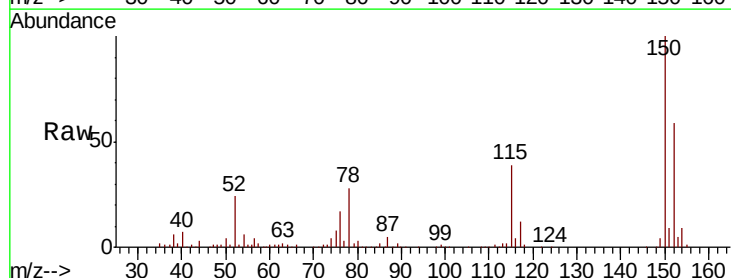
Tgt Ion:152 Resp: 73892

Ion Ratio Lower Upper

152 100

115 65.2 33.3 99.9

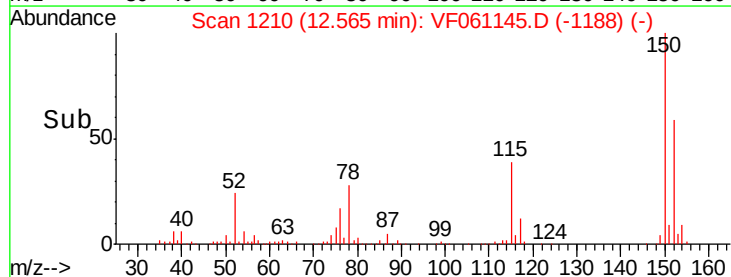
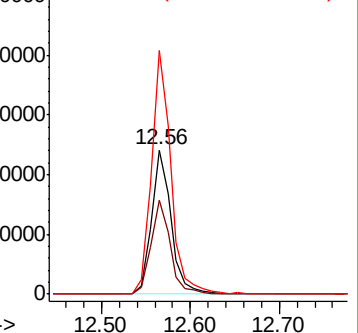
150 168.6 0.0 328.2

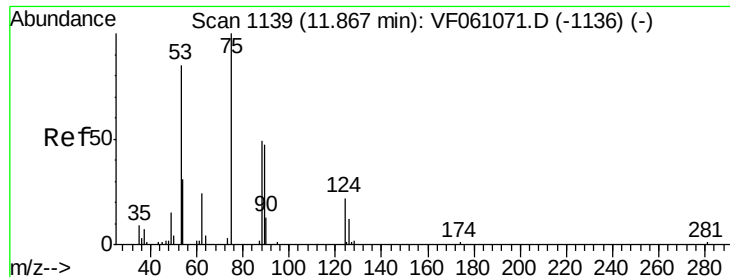


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.258 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. 0.03 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

Instrument :

MSVOA_F

ClientSampled :

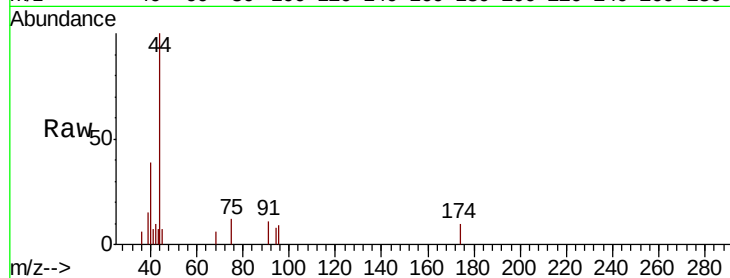
Tot Ion: 75 Resp: 425

Ion Ratio Lower Upper

75 100

53 0.0 74.1 111.1#

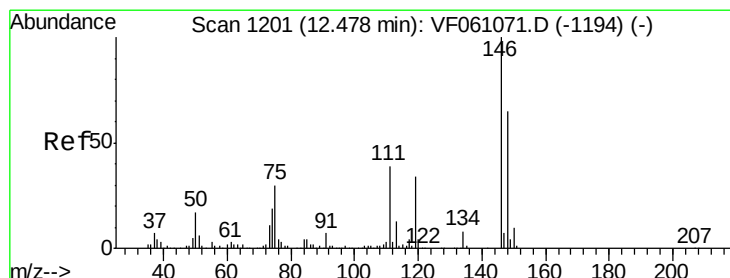
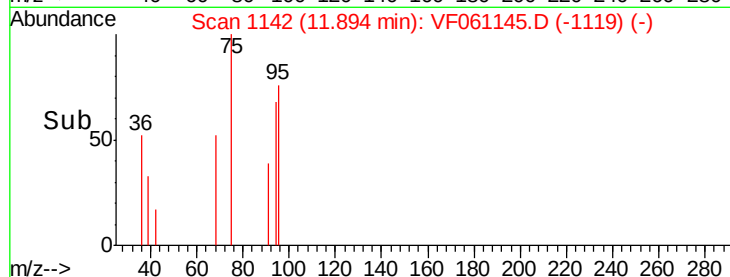
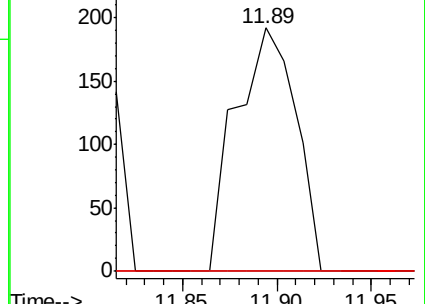
89 0.0 42.6 64.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.49 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF061145.D

Acq: 22 Dec 2018 15:31

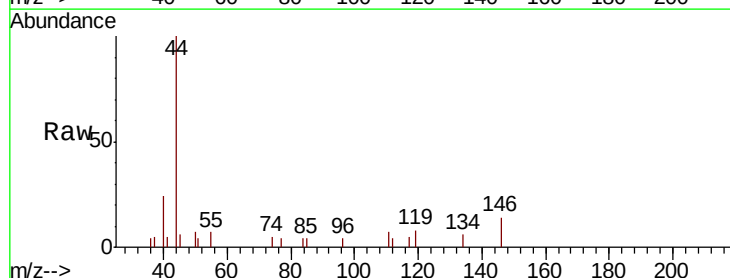
Tgt Ion: 146 Resp: 457

Ion Ratio Lower Upper

146 100

111 47.0 19.3 57.9

148 0.0 32.4 97.2#



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

