

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122818\
 Data File : VF061242.D
 Acq On : 28 Dec 2018 18:13
 Operator : VA/AP
 Sample : J6547-03
 Misc : 6.31g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 1B-VOC

Quant Time: Dec 29 00:58:23 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	4.88	168	227735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	429267	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	281483	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	80192	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	148610	50.74	ug/l	0.01
Spiked Amount 50.000			Recovery	=	101.48%	
35) Dibromofluoromethane	4.12	113	150187	43.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.36%	
50) Toluene-d8	7.57	98	392233	40.25	ug/l	0.01
Spiked Amount 50.000			Recovery	=	80.50%	
62) 4-Bromofluorobenzene	11.42	95	128575	28.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	57.24%	

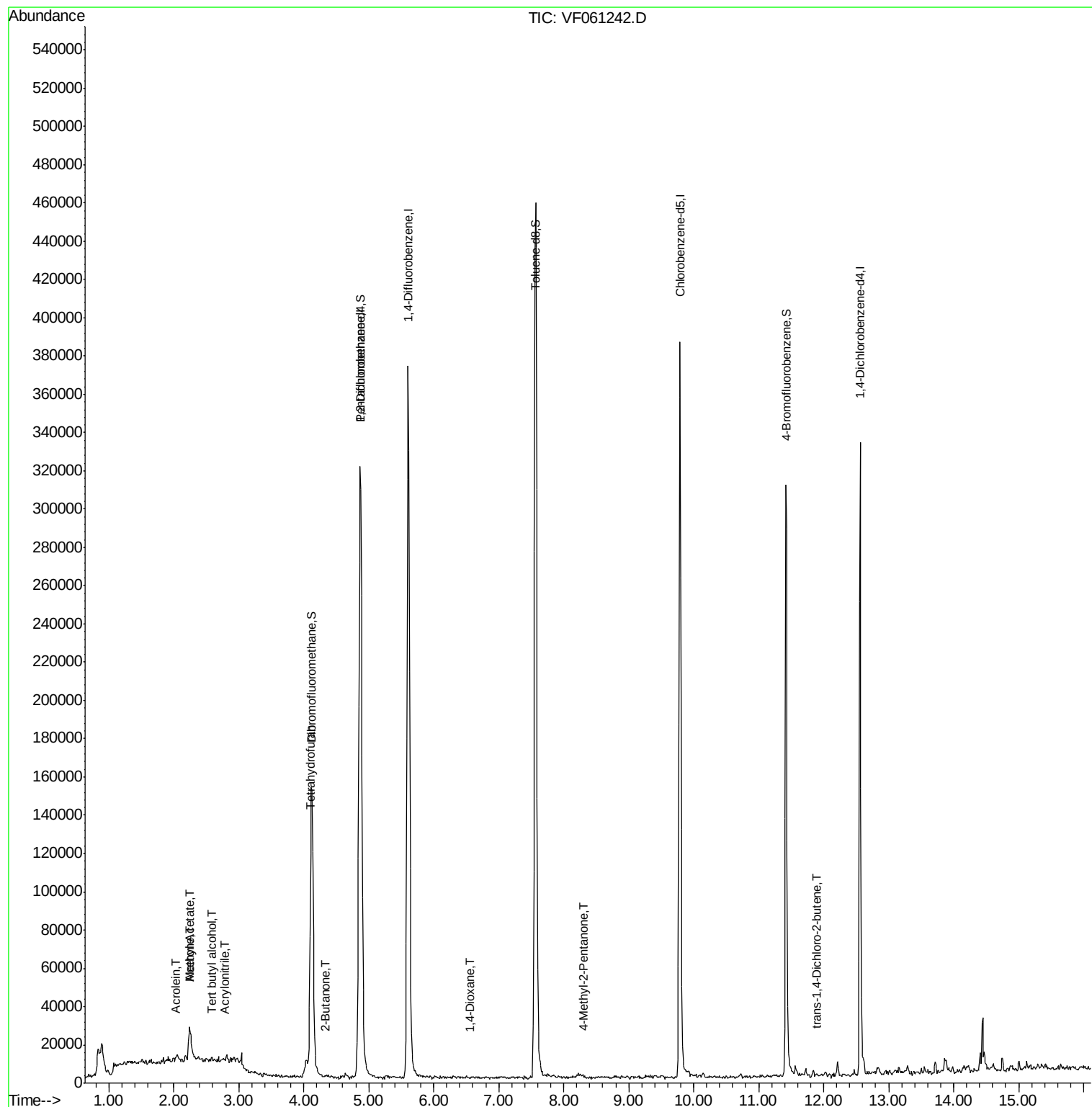
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	1112	9.408	ug/l #	60
13) Acrolein	2.02	56	967	11.322	ug/l #	1
15) Acrylonitrile	2.79	53	371	1.357	ug/l	90
16) Acetone	2.24	43	32662	55.780	ug/l #	87
18) Methyl Acetate	2.24	43	32662	26.961	ug/l #	66
20) Methylene Chloride	2.25	84	2811	Below Cal	#	82
25) 2-Butanone	4.34	43	2523	2.657	ug/l #	57
29) Tetrahydrofuran	4.10	42	1223	3.164	ug/l #	74
49) 1,4-Dioxane	6.55	88	59	4.655	ug/l #	6
51) 4-Methyl-2-Pentanone	8.29	43	2071	1.207	ug/l #	71
70) Styrene	10.81	104	244	Below Cal	#	72
78) n-propylbenzene	11.61	91	1084	Below Cal	#	50
81) trans-1,4-Dichloro-2-buten	11.89	75	370	1.009	ug/l #	11
87) 1,3-Dichlorobenzene	12.49	146	190	Below Cal	#	25

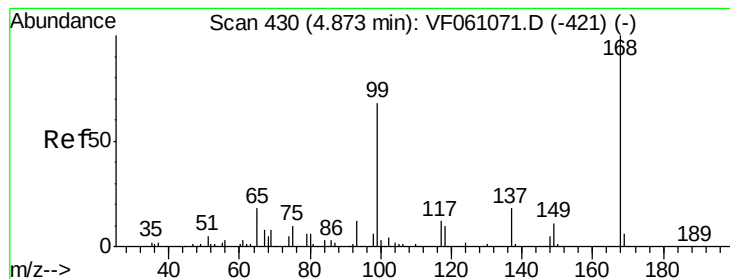
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

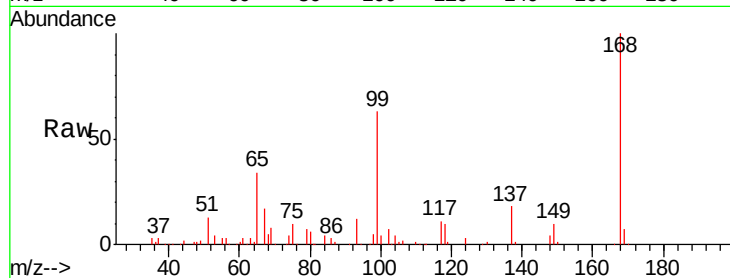
1B-VOC

Tgt Ion:168 Resp: 227735

Ion Ratio Lower Upper

168 100

99 62.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

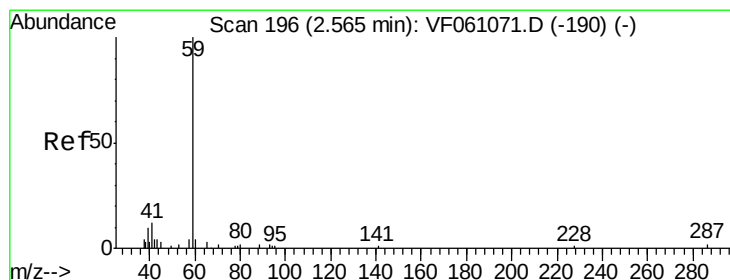
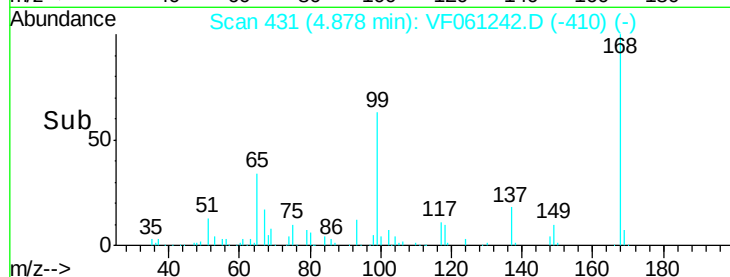
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 9.408 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF061242.D

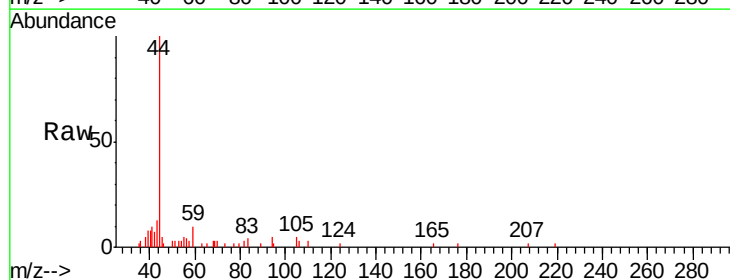
Acq: 28 Dec 2018 18:13

Tgt Ion: 59 Resp: 1112

Ion Ratio Lower Upper

59 100

57 30.6 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.59

600

500

400

300

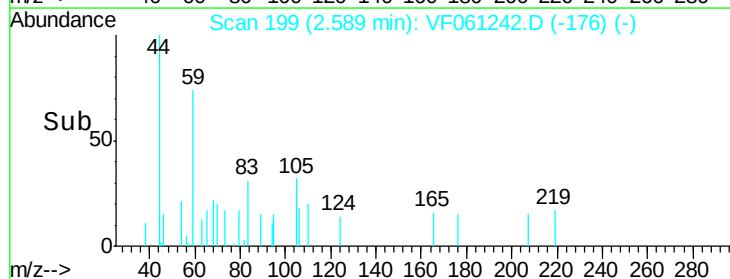
200

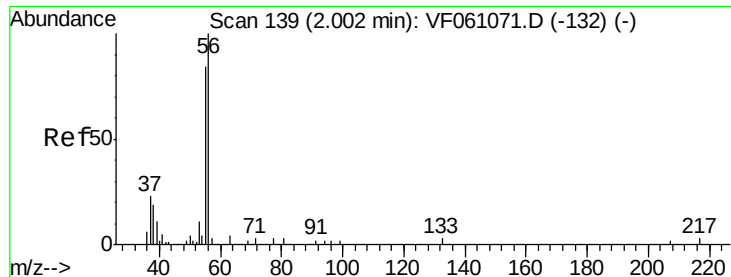
100

0

Time-->

2.50 2.55 2.60 2.65





#13

Acrolein

Concen: 11.322 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.02 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

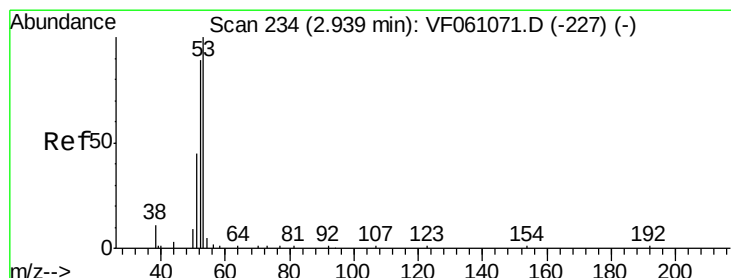
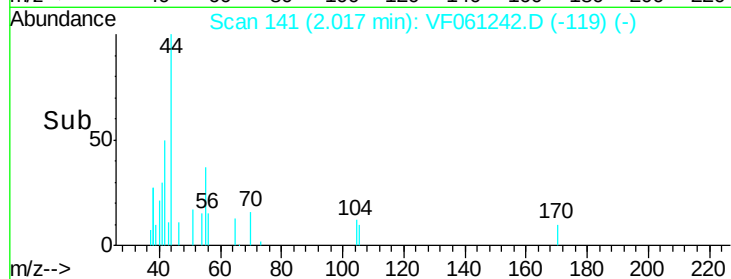
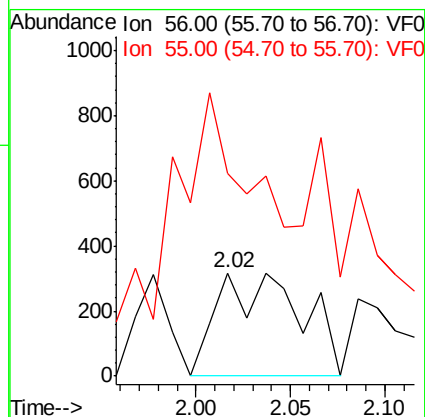
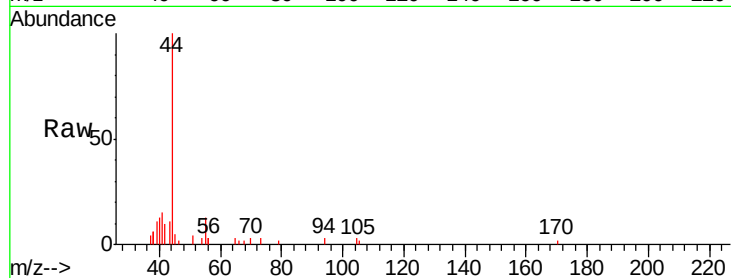
1B-VOC

Tgt Ion: 56 Resp: 967

Ion Ratio Lower Upper

56 100

55 195.3 70.2 105.2#



#15

Acrylonitrile

Concen: 1.357 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.15 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

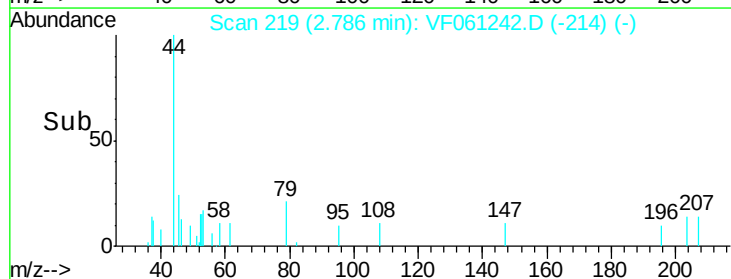
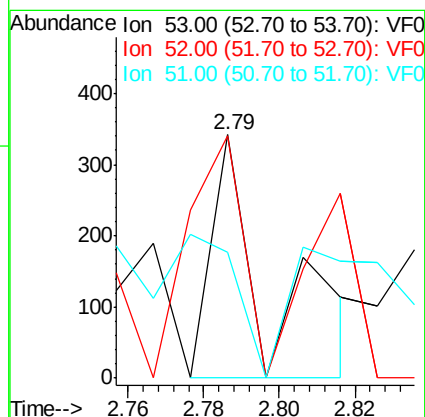
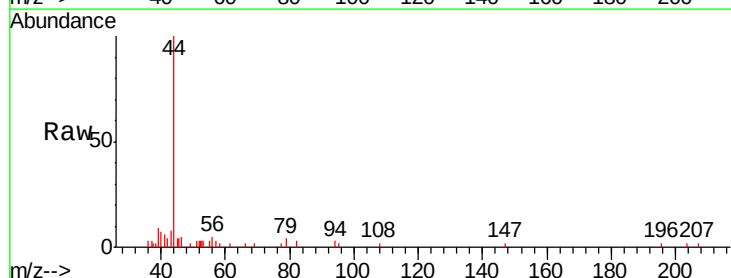
Tgt Ion: 53 Resp: 371

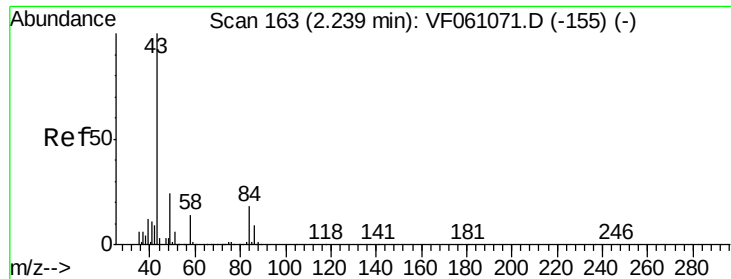
Ion Ratio Lower Upper

53 100

52 99.7 71.3 106.9

51 51.8 36.8 55.2

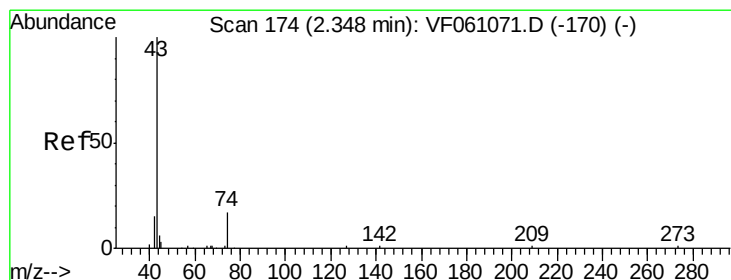
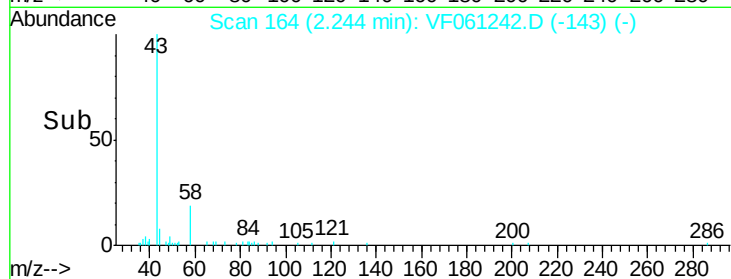
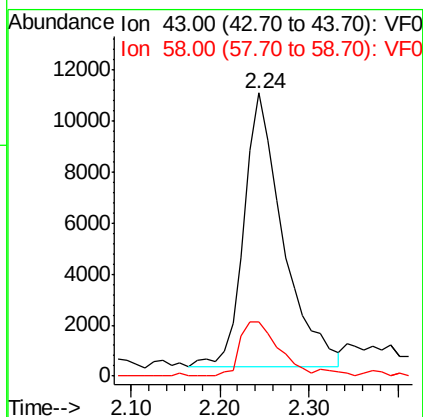
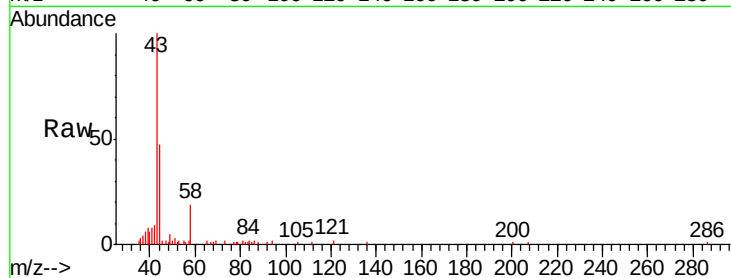




#16
Acetone
Concen: 55.780 ug/l
RT: 2.24 min Scan# 164
Delta R.T. 0.00 min
Lab File: VF061242.D
Acq: 28 Dec 2018 18:13

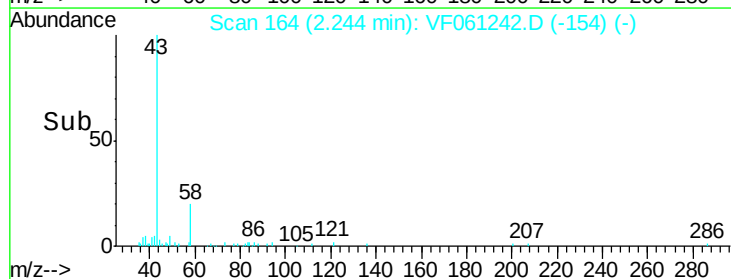
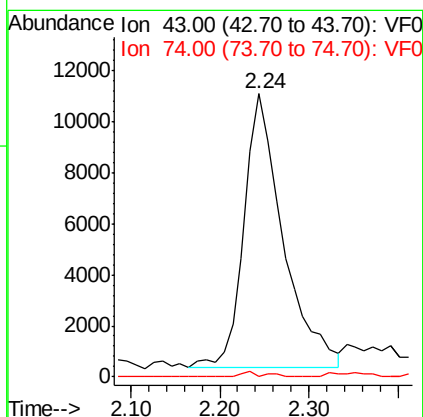
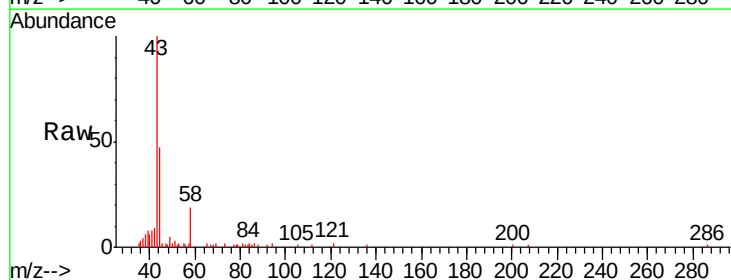
Instrument :
MSVOA_F
ClientSampleId :
1B-VOC

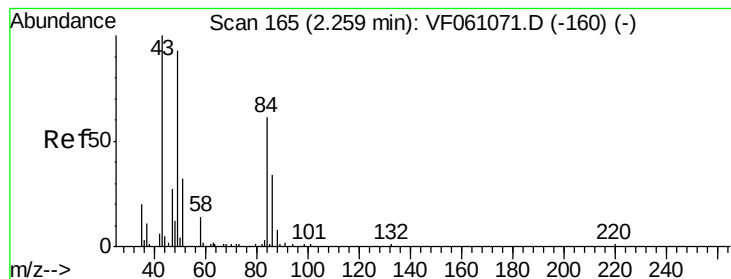
Tgt Ion: 43 Resp: 32662
Ion Ratio Lower Upper
43 100
58 19.3 11.1 16.7#



#18
Methyl Acetate
Concen: 26.961 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.10 min
Lab File: VF061242.D
Acq: 28 Dec 2018 18:13

Tgt Ion: 43 Resp: 32662
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :
MSVOA_F
ClientSampleId :
1B-VOC

Tgt Ion: 84 Resp: 2811

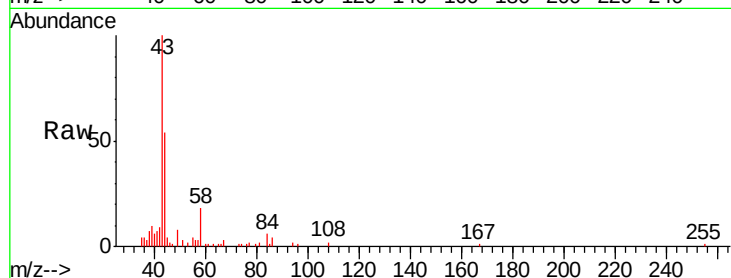
Ion	Ratio	Lower	Upper
84	100		
49	131.4	129.4	194.2
51	59.0	44.0	66.0
86	70.6	46.3	69.5#

84 100

49 131.4 129.4 194.2

51 59.0 44.0 66.0

86 70.6 46.3 69.5#



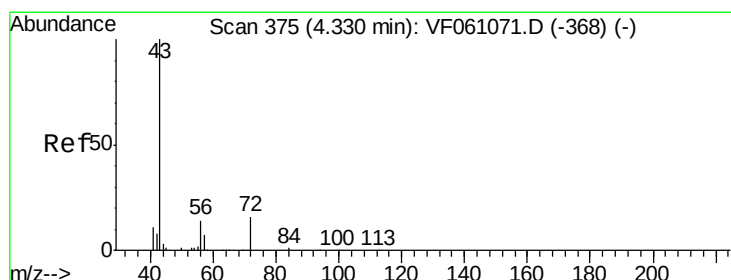
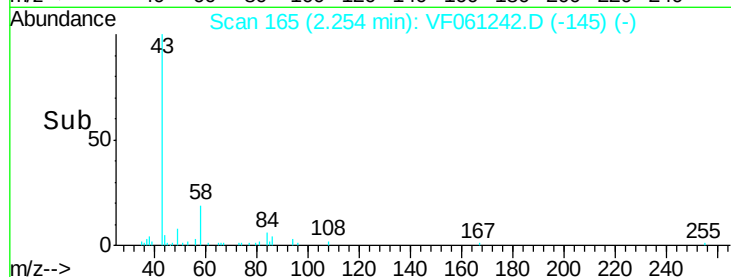
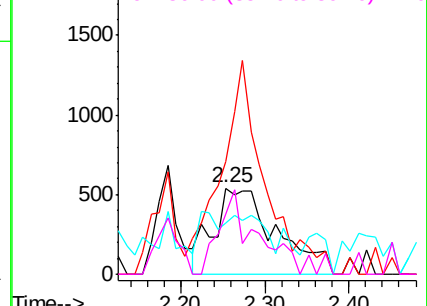
Abundance

Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 2.657 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061242.D

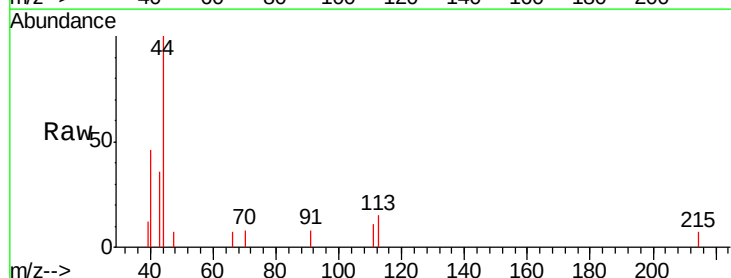
Acq: 28 Dec 2018 18:13

Tgt Ion: 43 Resp: 2523

Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.6	23.4#

43 100

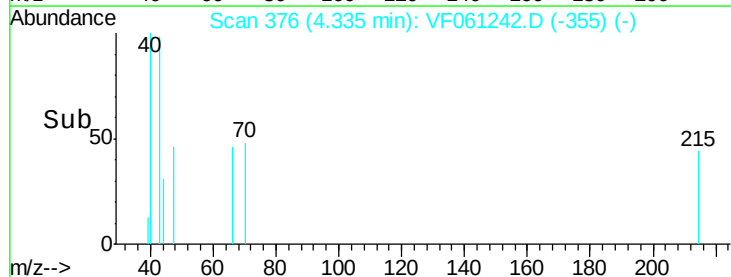
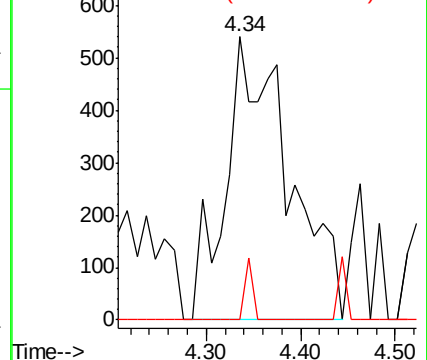
72 0.0 15.6 23.4#

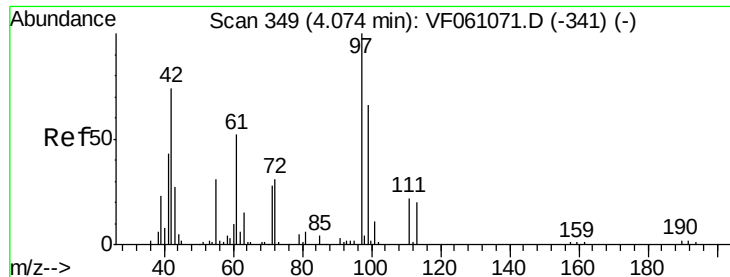


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.164 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

1B-VOC

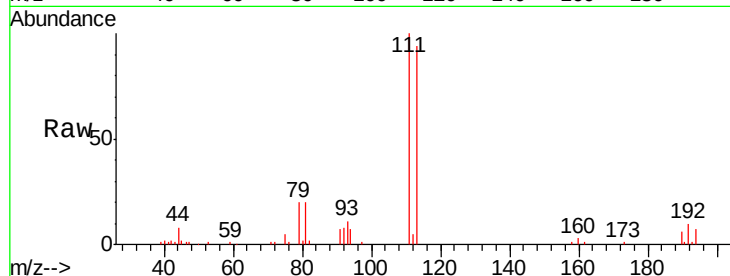
Tgt Ion: 42 Resp: 1223

Ion Ratio Lower Upper

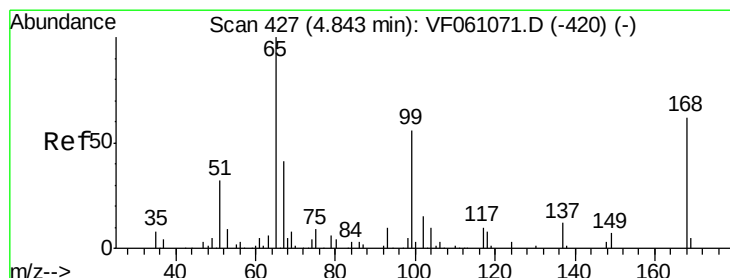
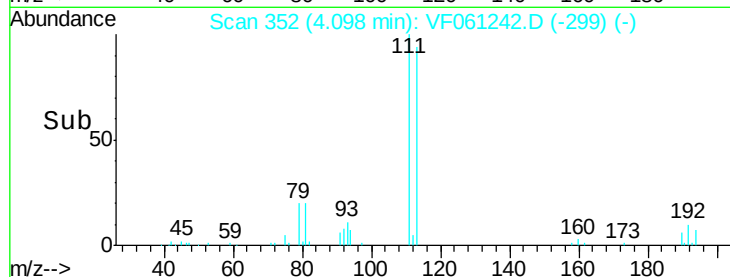
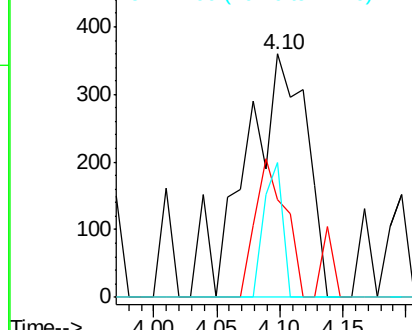
42 100

72 28.0 31.8 47.8#

71 17.0 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: 50.736 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061242.D

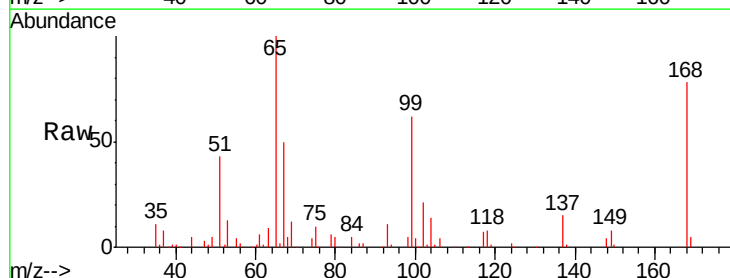
Acq: 28 Dec 2018 18:13

Tgt Ion: 65 Resp: 148610

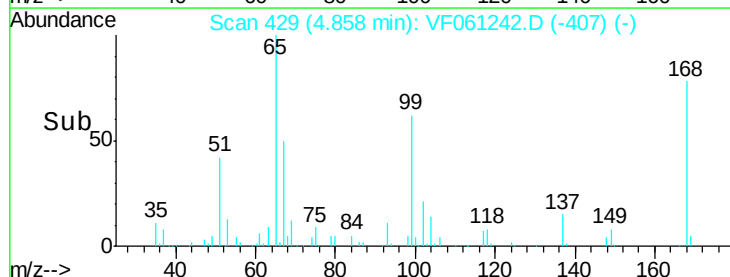
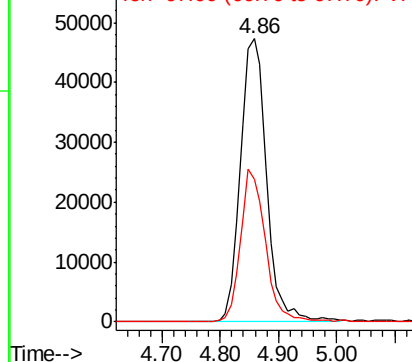
Ion Ratio Lower Upper

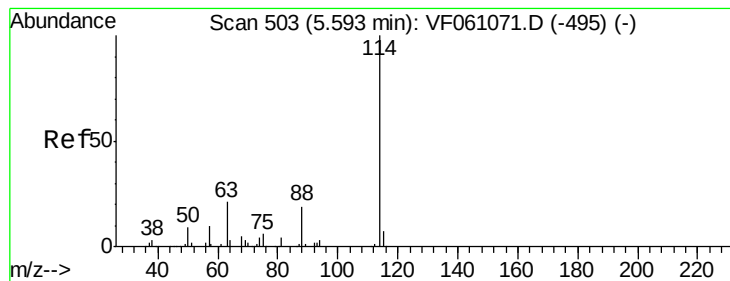
65 100

67 50.4 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: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

1B-VOC

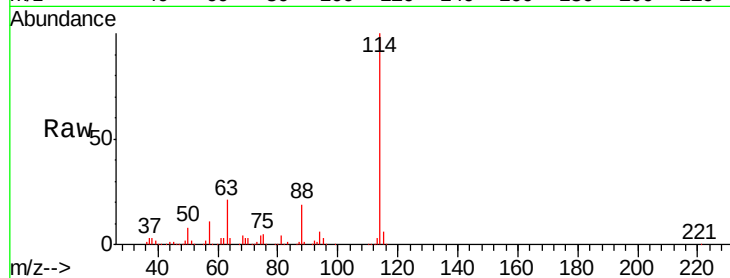
Tgt Ion:114 Resp: 429267

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.6

88 18.6 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

200000

150000

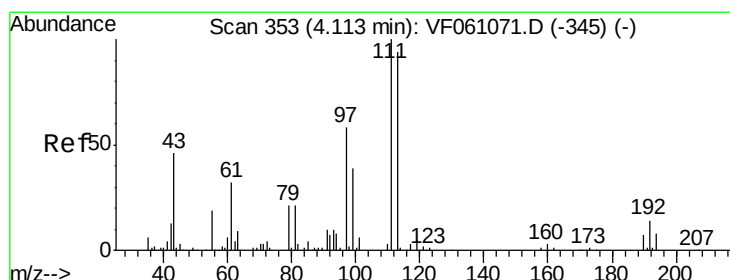
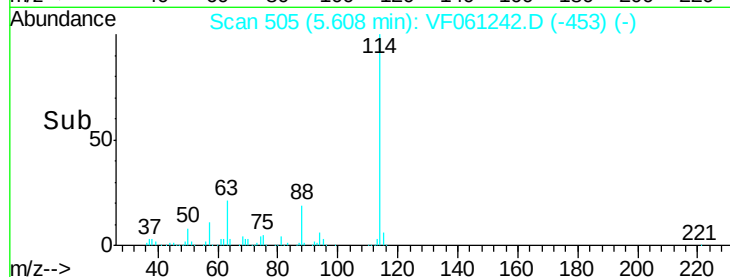
100000

50000

0

5.40 5.60 5.80

Time-->



#35

Dibromofluoromethane

Concen: 43.676 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

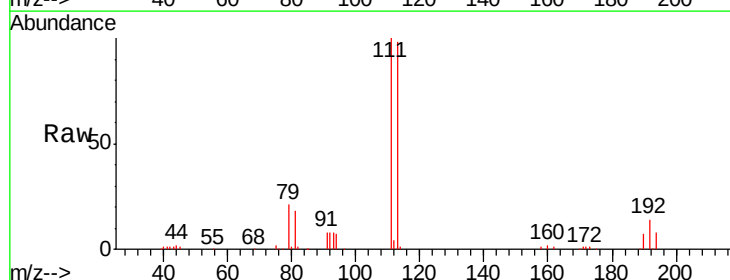
Tgt Ion:113 Resp: 150187

Ion Ratio Lower Upper

113 100

111 102.1 85.2 127.8

192 15.0 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

60000

50000

40000

30000

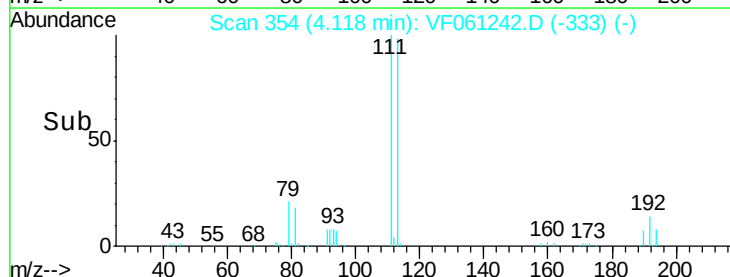
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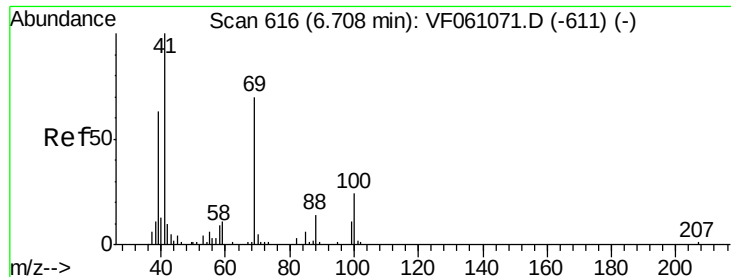
10000

0

4.00 4.10 4.20 4.30

Time-->





#49

1,4-Dioxane

Concen: 4.655 ug/l

RT: 6.55 min Scan# 601

Delta R.T. -0.15 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

1B-VOC

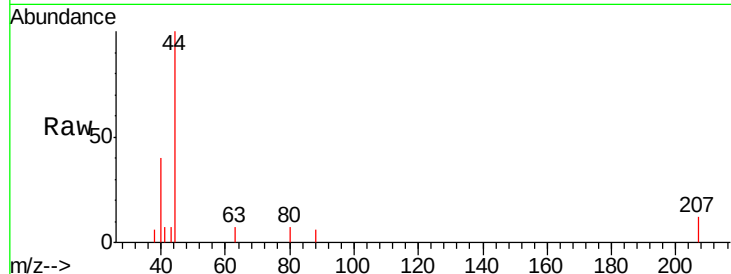
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 111.0 33.3 49.9#

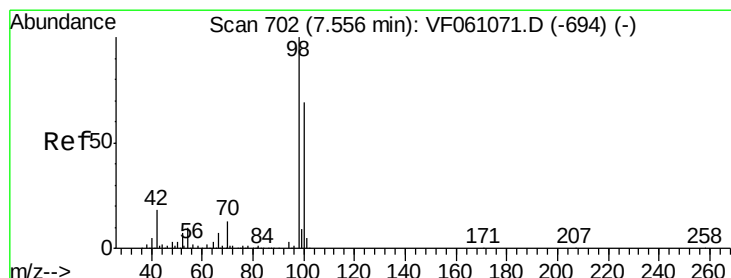
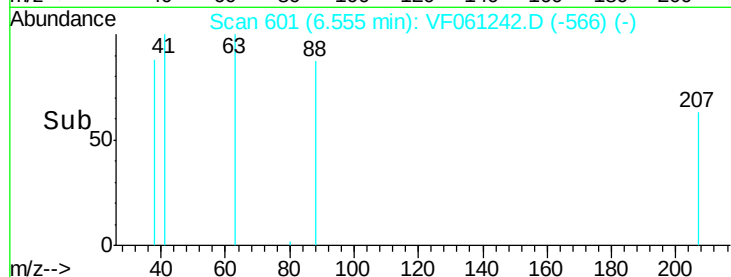
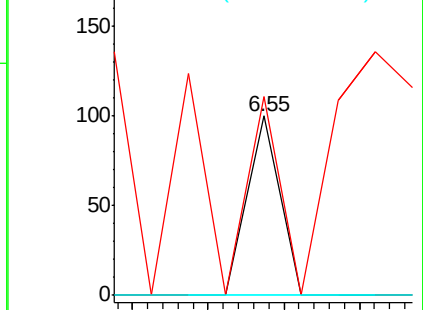
58 0.0 53.2 79.8#



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: 40.251 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.01 min

Lab File: VF061242.D

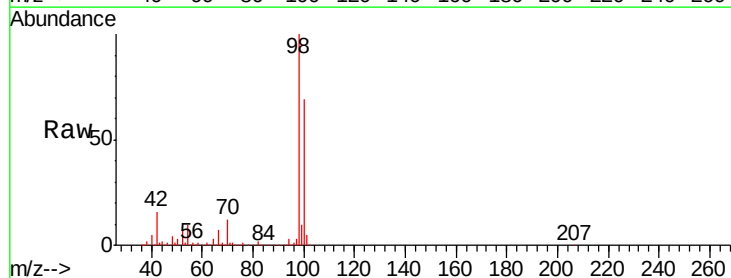
Acq: 28 Dec 2018 18:13

Tgt Ion: 98 Resp: 392233

Ion Ratio Lower Upper

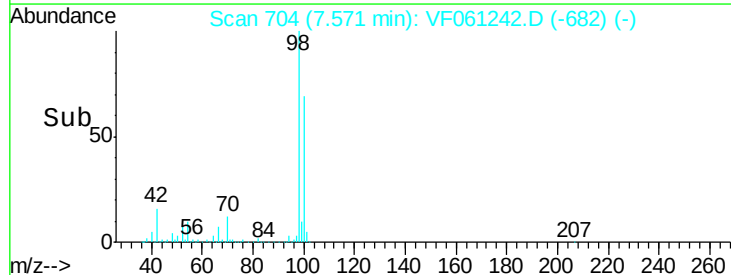
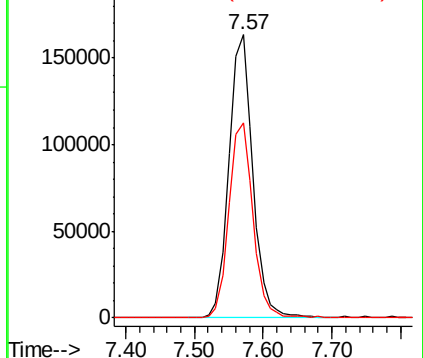
98 100

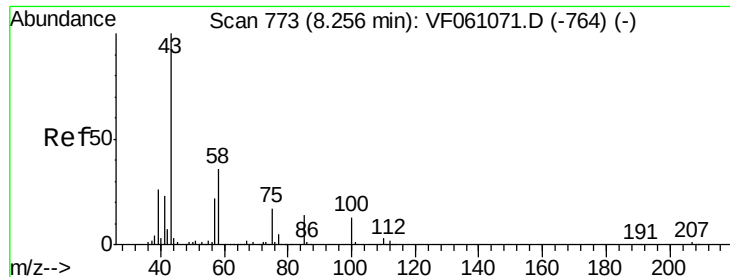
100 69.1 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

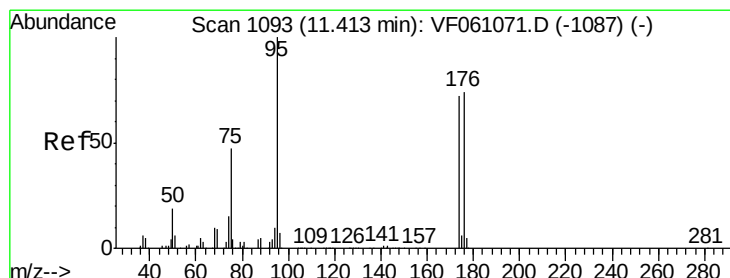
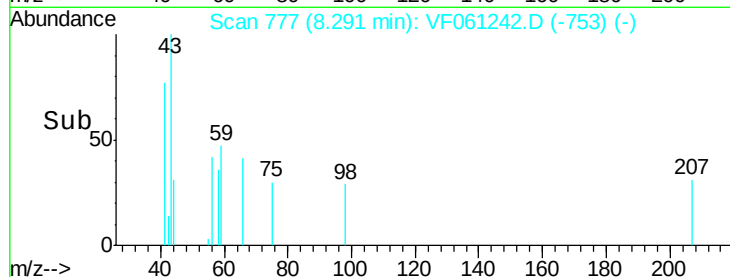
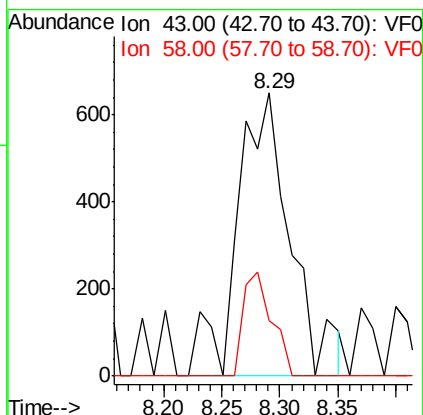
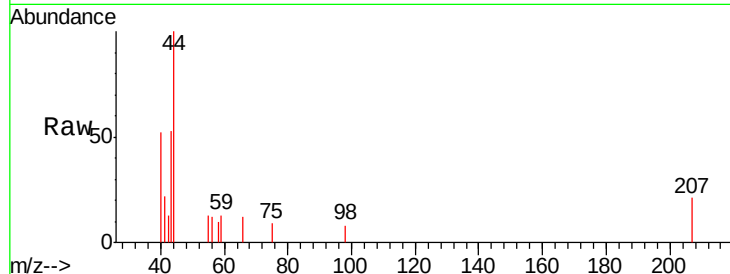




#51
 4-Methyl-2-Pentanone
 Concen: 1.207 ug/l
 RT: 8.29 min Scan# 777
 Delta R.T. 0.03 min
 Lab File: VF061242.D
 Acq: 28 Dec 2018 18:13

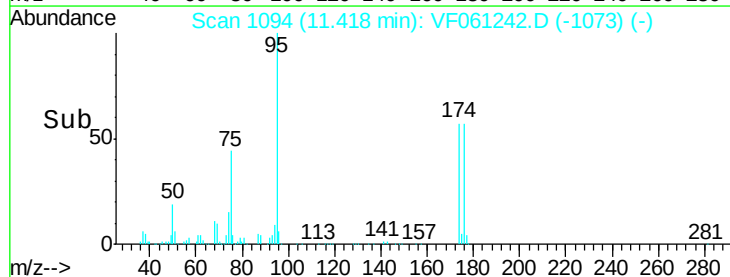
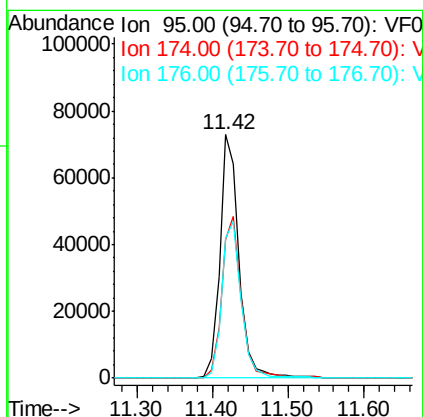
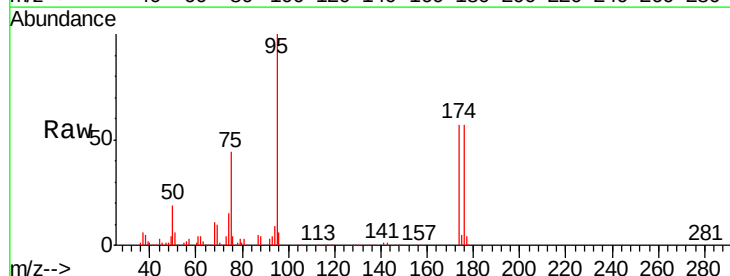
Instrument :
 MSVOA_F
 ClientSampled :
 1B-VOC

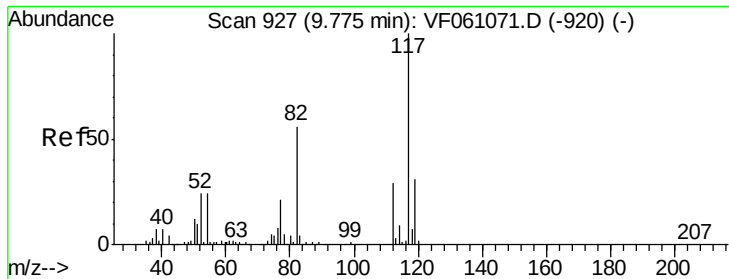
Tgt Ion: 43 Resp: 2071
 Ion Ratio Lower Upper
 43 100
 58 19.4 29.1 43.7#



#62
 4-Bromofluorobenzene
 Concen: 28.620 ug/l
 RT: 11.42 min Scan# 1094
 Delta R.T. 0.00 min
 Lab File: VF061242.D
 Acq: 28 Dec 2018 18:13

Tgt Ion: 95 Resp: 128575
 Ion Ratio Lower Upper
 95 100
 174 56.8 0.0 143.8
 176 57.3 0.0 147.6

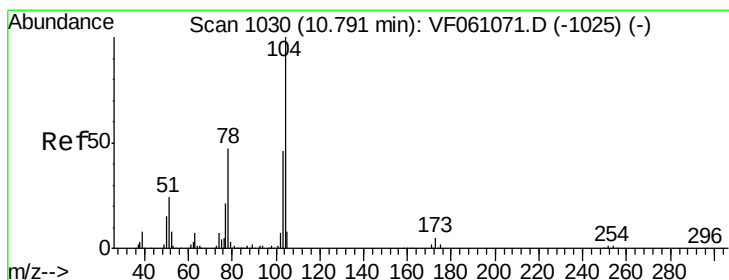
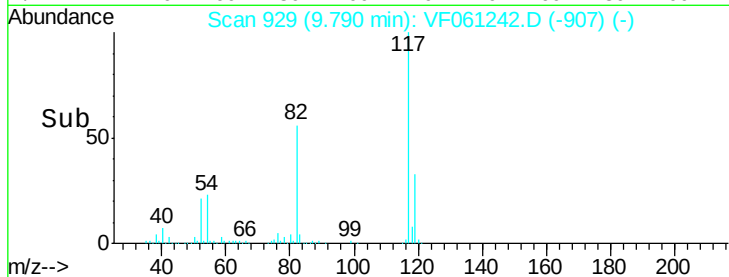
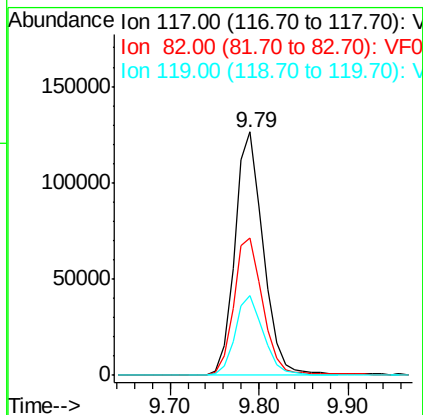
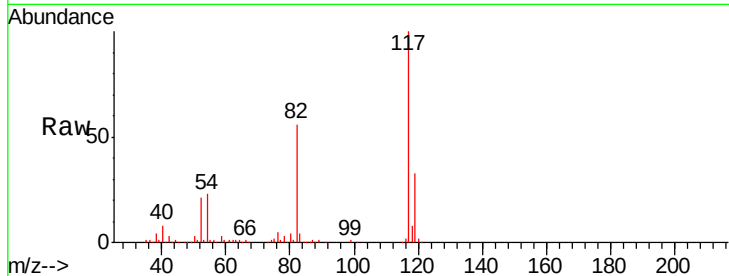




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061242.D
Acq: 28 Dec 2018 18:13

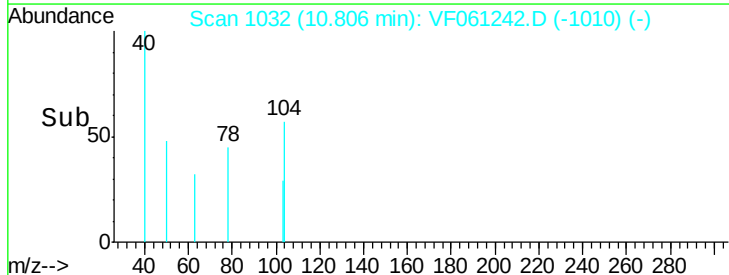
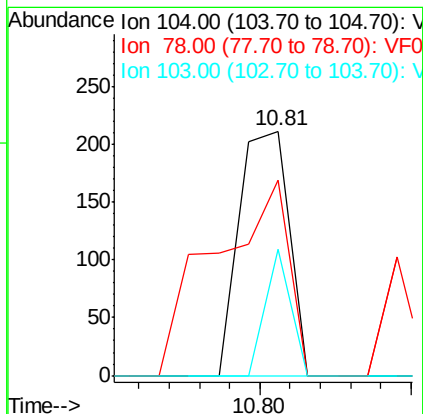
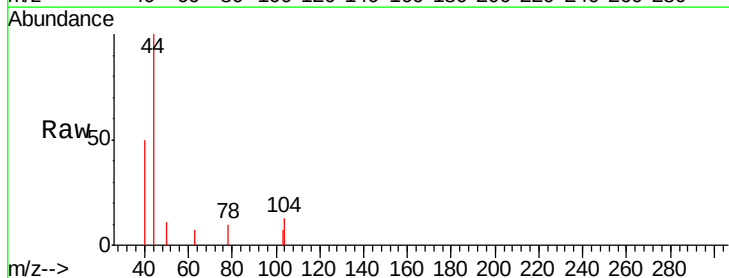
Instrument :
MSVOA_F
ClientSampleId :
1B-VOC

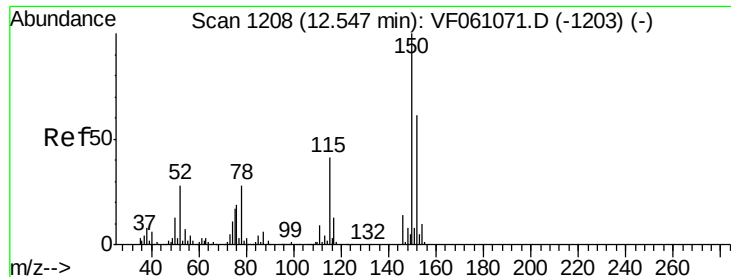
Tgt Ion:117 Resp: 281483
Ion Ratio Lower Upper
117 100
82 56.4 45.0 67.4
119 32.7 24.8 37.2



#70
Styrene
Concen: Below Cal
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061242.D
Acq: 28 Dec 2018 18:13

Tgt Ion:104 Resp: 244
Ion Ratio Lower Upper
104 100
78 80.1 38.4 57.6#
103 51.7 37.0 55.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

Instrument :

MSVOA_F

ClientSampleId :

1B-VOC

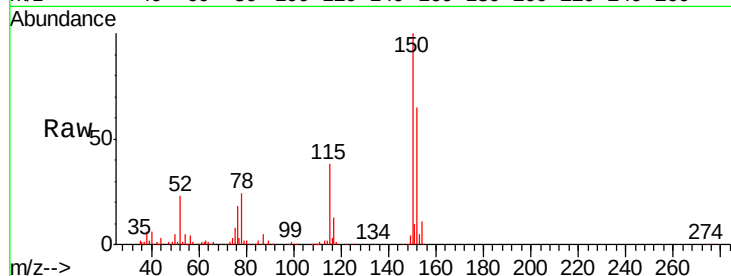
Tgt Ion:152 Resp: 80192

Ion Ratio Lower Upper

152 100

115 58.3 33.3 99.9

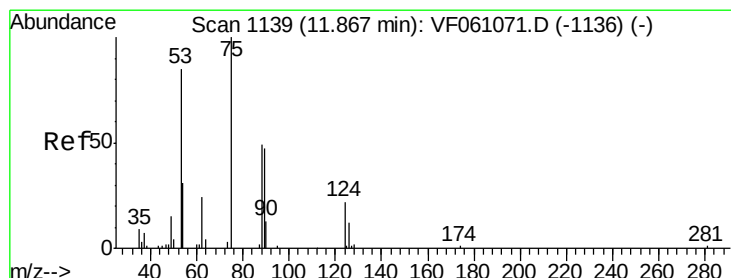
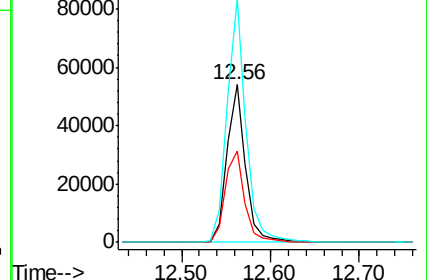
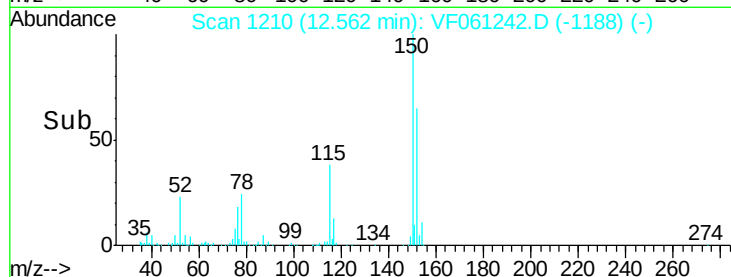
150 154.7 0.0 328.2



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: 1.009 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. 0.02 min

Lab File: VF061242.D

Acq: 28 Dec 2018 18:13

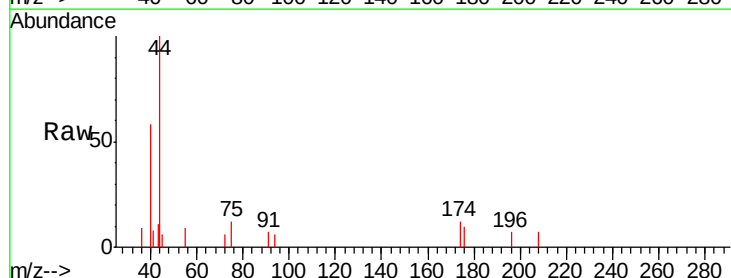
Tgt Ion: 75 Resp: 370

Ion Ratio Lower Upper

75 100

53 0.0 74.1 111.1#

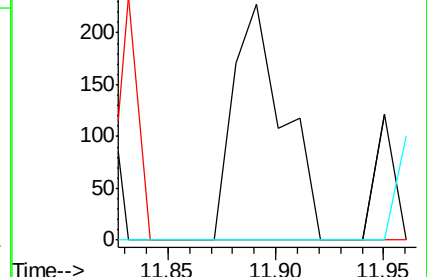
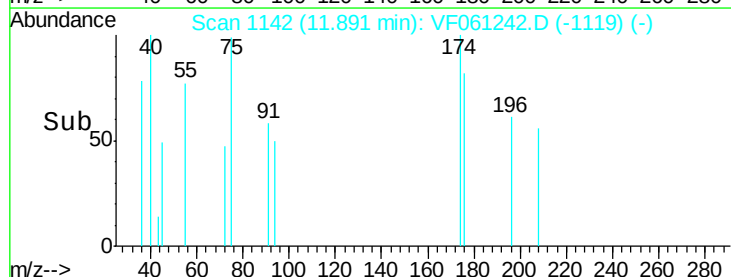
89 0.0 42.6 64.0#

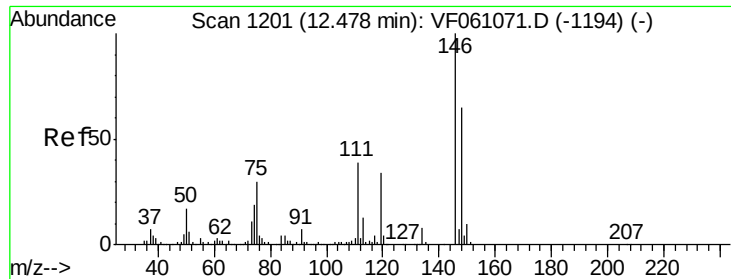


Abundance Ion 75.00 (74.70 to 75.70): VF0

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# 1203
 Delta R.T. 0.01 min
 Lab File: VF061242.D
 Acq: 28 Dec 2018 18:13

Instrument :
 MSVOA_F
 ClientSampleId :
 1B-VOC

Tgt Ion:146 Resp: 190
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.3 57.9#
 148 0.0 32.4 97.2#

