

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061127.D
 Acq On : 21 Dec 2018 15:46
 Operator : VA/AP
 Sample : J6199-09RE
 Misc : 5.68g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-ARE

Quant Time: Dec 21 16:24:41 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

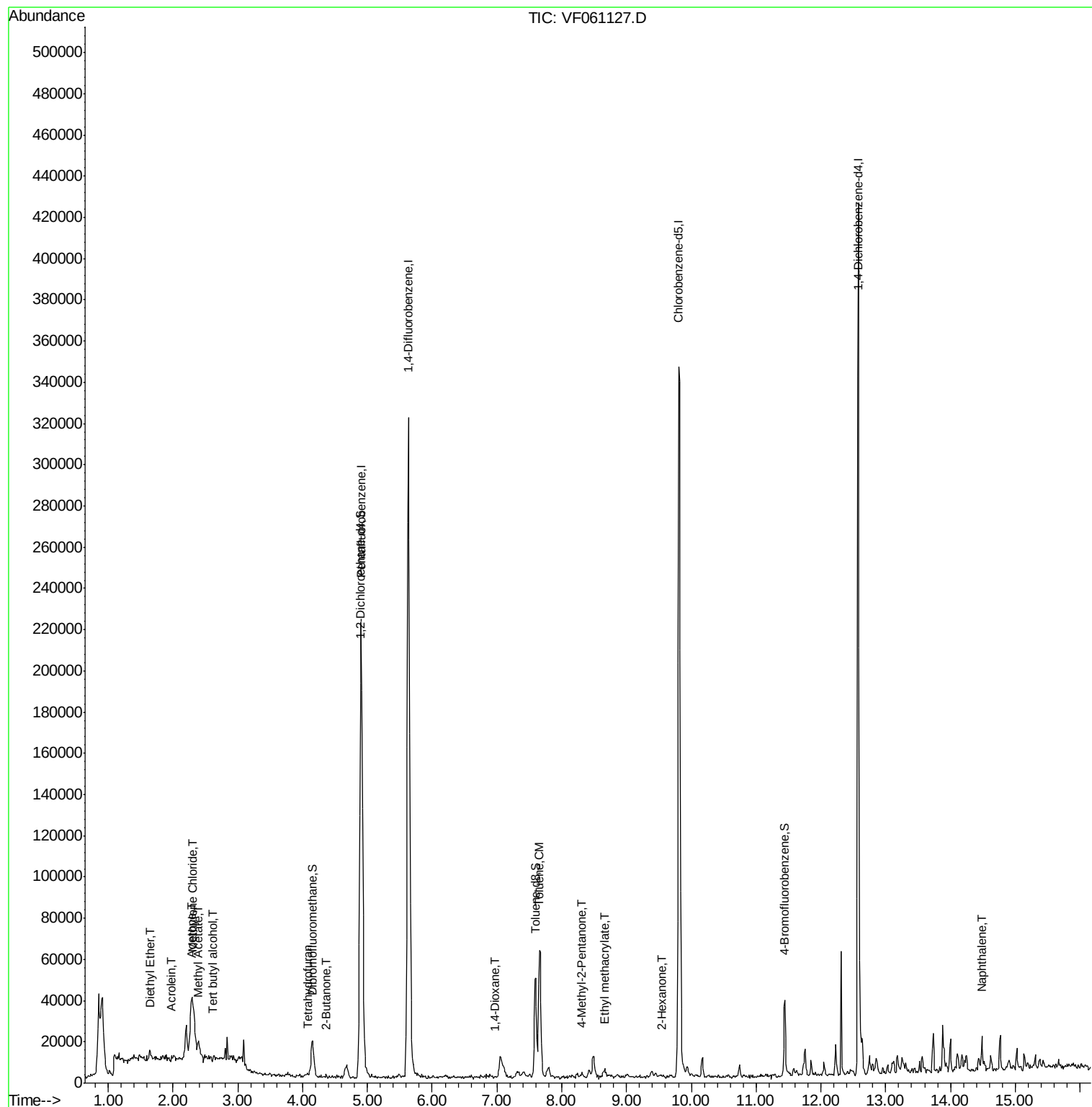
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	189752	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.63	114	352522	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.82	117	251609	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.58	152	105168	50.00	ug/l	0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.88	65	15333	6.28	ug/l	0.04
Spiked Amount 50.000			Recovery	=	12.56%	
35) Dibromofluoromethane	4.15	113	15562	5.51	ug/l	0.04
Spiked Amount 50.000			Recovery	=	11.02%	
50) Toluene-d8	7.59	98	33729	4.21	ug/l	0.03
Spiked Amount 50.000			Recovery	=	8.42%	
62) 4-Bromofluorobenzene	11.44	95	15765	4.27	ug/l	0.03
Spiked Amount 50.000			Recovery	=	8.54%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.66	74	1315	2.244	ug/l	74
11) Tert butyl alcohol	2.61	59	276	2.802	ug/l #	1
13) Acrolein	1.97	56	450	6.323	ug/l	82
16) Acetone	2.27	43	8750	17.934	ug/l	94
18) Methyl Acetate	2.38	43	4945	4.899	ug/l #	80
20) Methylene Chloride	2.30	84	25308	12.900	ug/l #	91
25) 2-Butanone	4.37	43	999	1.263	ug/l #	57
29) Tetrahydrofuran	4.08	42	364	1.130	ug/l #	53
37) Ethyl Acetate	4.15	43	279	Below Cal	#	21
49) 1,4-Dioxane	6.96	88	65	6.245	ug/l #	1
51) 4-Methyl-2-Pentanone	8.31	43	2126	1.509	ug/l #	77
52) Toluene	7.66	92	34543	5.703	ug/l	95
56) Ethyl methacrylate	8.65	69	2127	1.082	ug/l #	69
59) 2-Hexanone	9.53	43	1550	1.521	ug/l	84
70) Styrene	10.82	104	208	Below Cal	#	46
87) 1,3-Dichlorobenzene	12.50	146	170	Below Cal	#	70
95) Naphthalene	14.48	128	6330	1.401	ug/l #	86

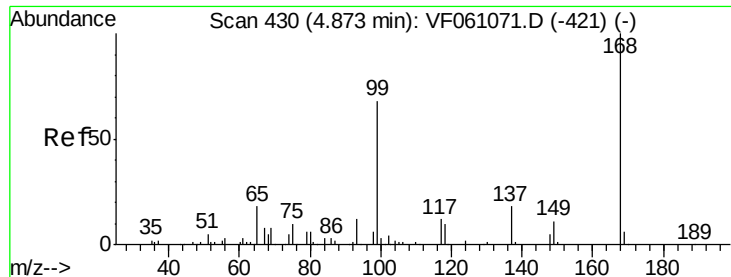
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

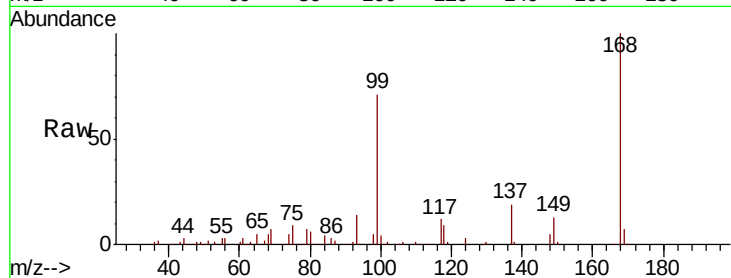
SU-02-121818-ARE

Tot Ion:168 Resp: 189752

Ion Ratio Lower Upper

168 100

99 70.8 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

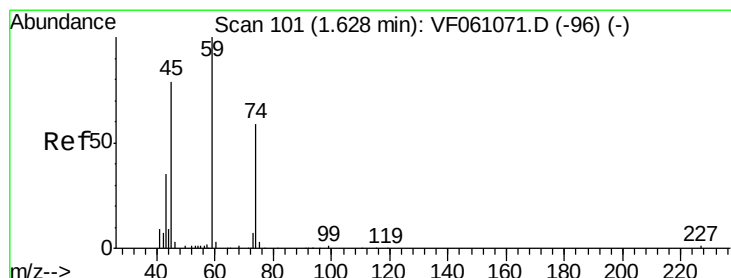
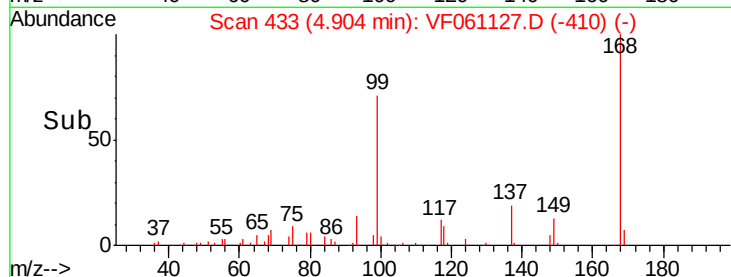
40000

20000

0

Time-->

4.80 4.90 5.00



#8

Diethyl Ether

Concen: 2.244 ug/l

RT: 1.66 min Scan# 104

Delta R.T. 0.03 min

Lab File: VF061127.D

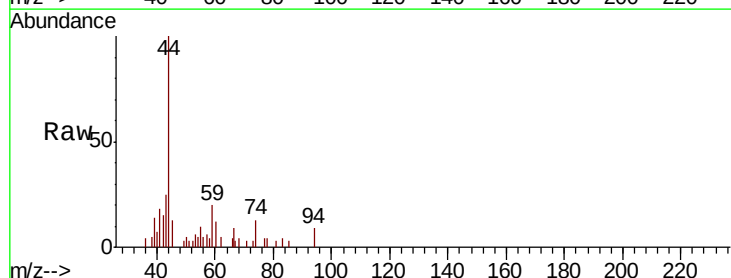
Acq: 21 Dec 2018 15:46

Tgt Ion: 74 Resp: 1315

Ion Ratio Lower Upper

74 100

45 104.5 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

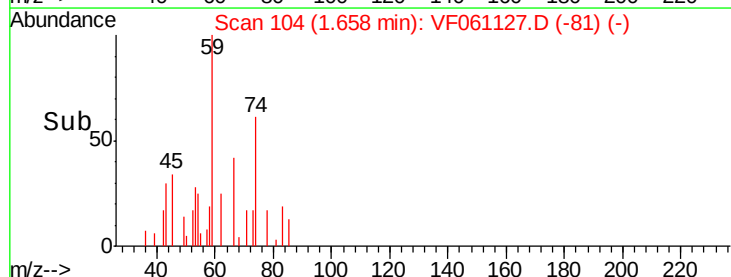
1000

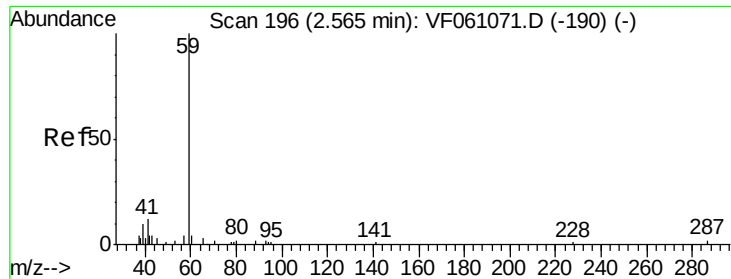
500

0

Time-->

1.55 1.60 1.65 1.70



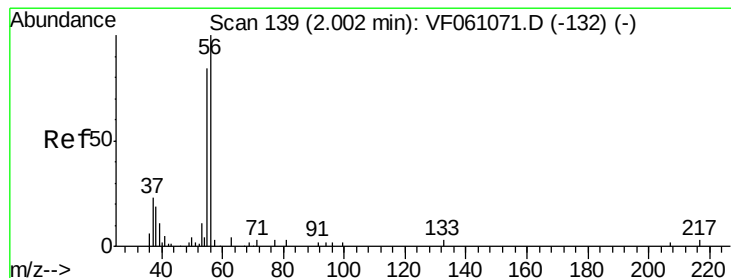
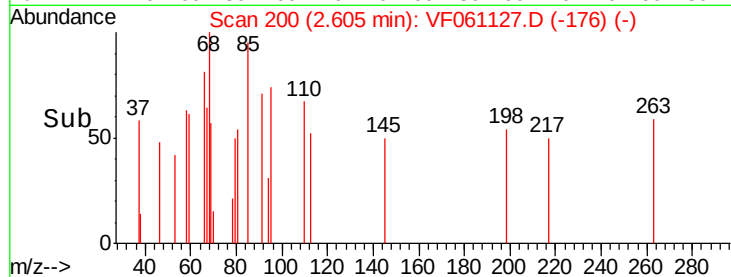
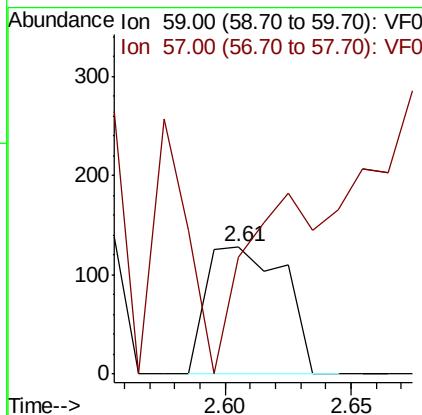
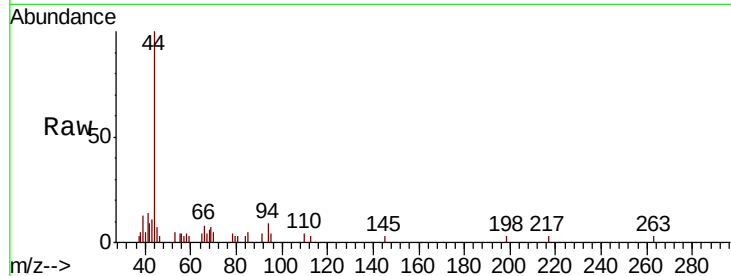


#11

Tert butyl alcohol
Concen: 2.802 ug/l
RT: 2.61 min Scan# 200
Delta R.T. 0.04 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

Instrument :
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ClientSampleId :
SU-02-121818-ARE

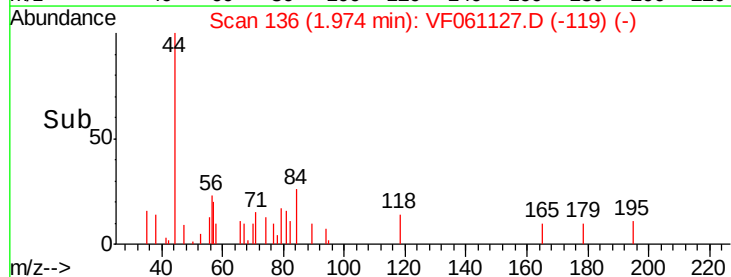
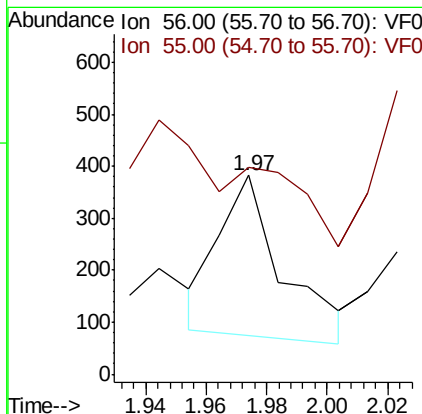
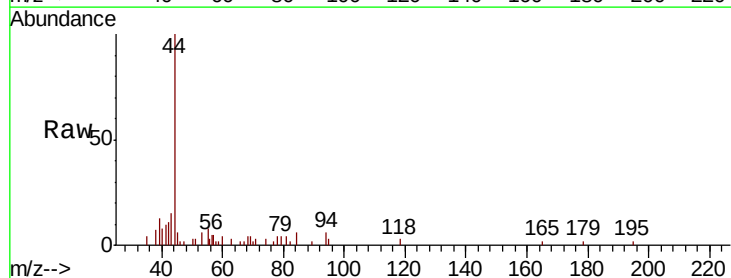
Tot Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
57 91.4 11.5 17.3#

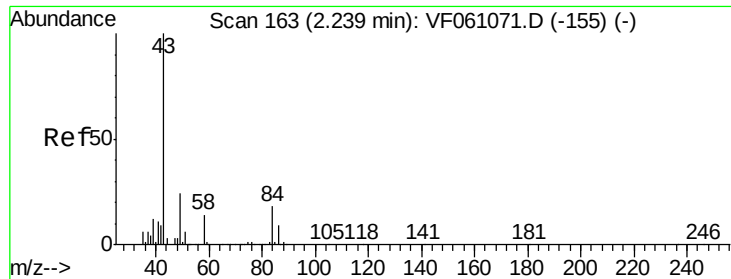


#13

Acrolein
Concen: 6.323 ug/l
RT: 1.97 min Scan# 136
Delta R.T. -0.03 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

Tgt Ion: 56 Resp: 450
Ion Ratio Lower Upper
56 100
55 104.2 70.2 105.2

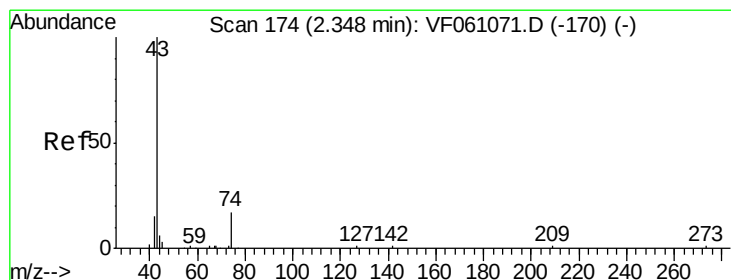
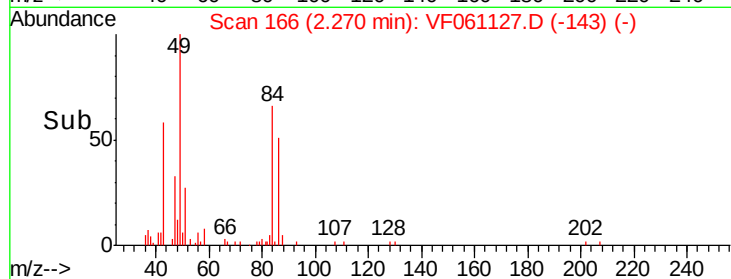
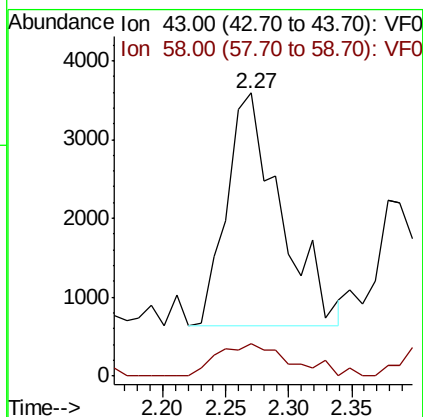
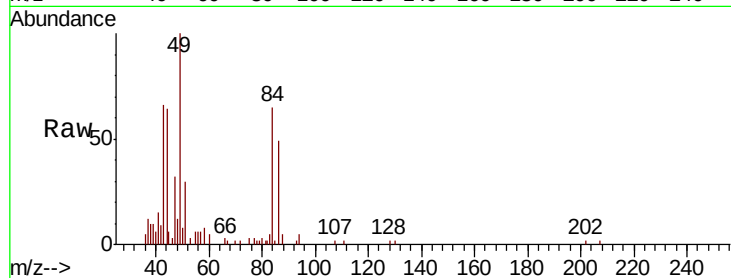




#16
Acetone
Concen: 17.934 ug/l
RT: 2.27 min Scan# 166
Delta R.T. 0.03 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

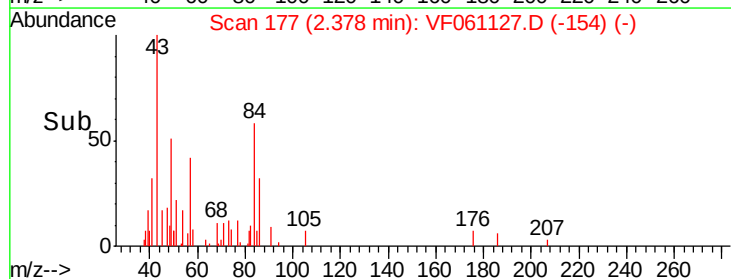
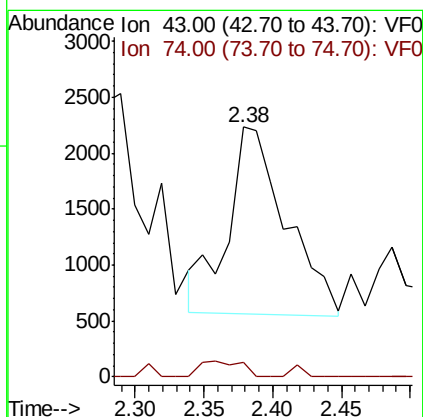
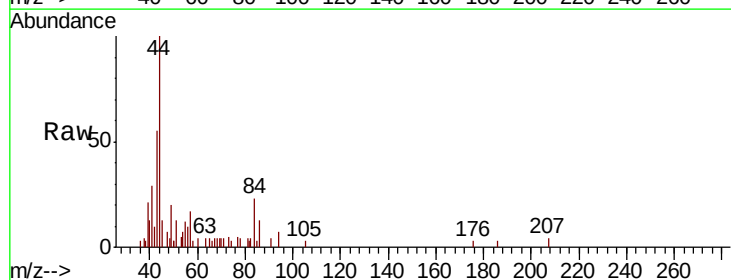
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-ARE

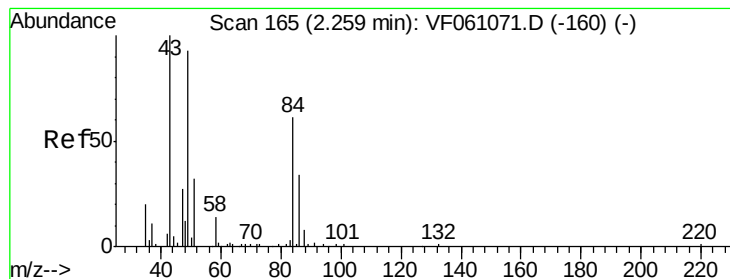
Tot Ion: 43 Resp: 8750
Ion Ratio Lower Upper
43 100
58 11.4 11.1 16.7



#18
Methyl Acetate
Concen: 4.899 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

Tgt Ion: 43 Resp: 4945
Ion Ratio Lower Upper
43 100
74 5.6 11.0 16.6#





#20

Methvlene Chloride

Concen: 12.900 ug/l

RT: 2.30 min Scan# 169

Delta R.T. 0.04 min

Lab File: VF061127.D

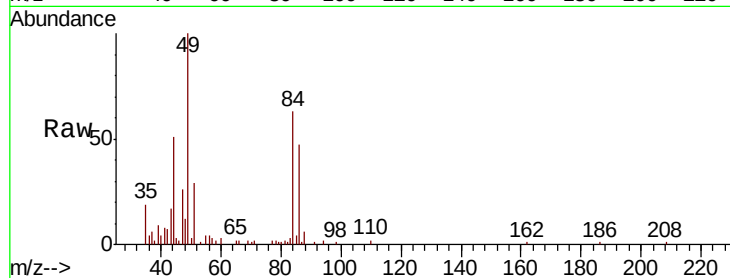
Acq: 21 Dec 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-ARE

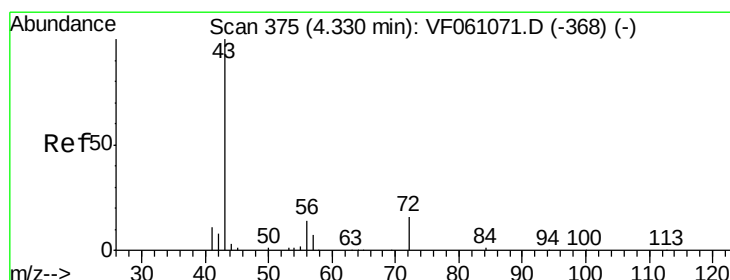
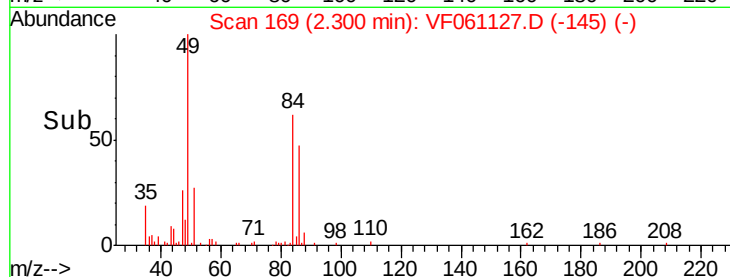
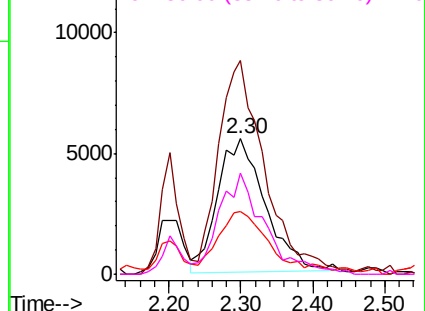
Tot Ion: 84 Resp: 25308

Ion Ratio Lower Upper

84	100		
49	158.0	129.4	194.2
51	46.1	44.0	66.0
86	74.6	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: 1.263 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

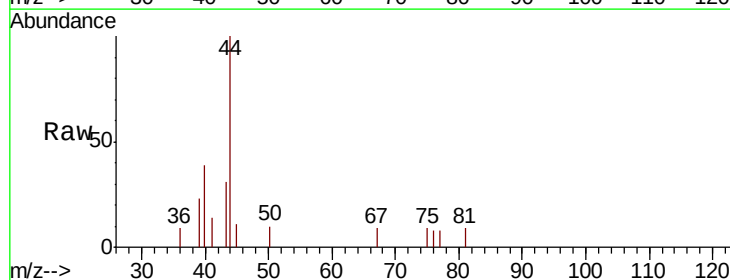
Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

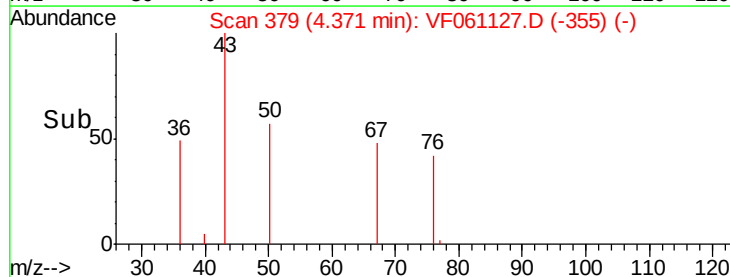
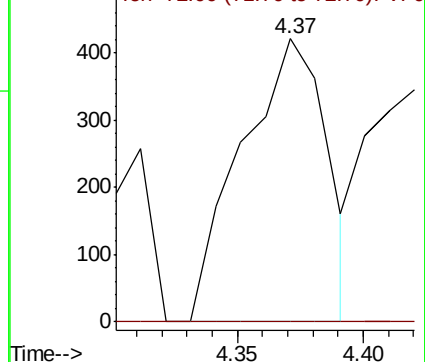
Tgt Ion: 43 Resp: 999

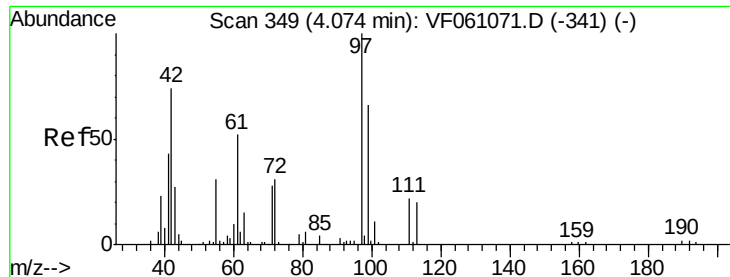
Ion Ratio Lower Upper

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: 1.130 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

Instrument :

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ClientSampleId :

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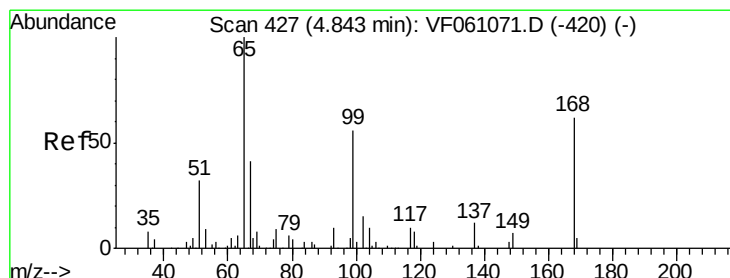
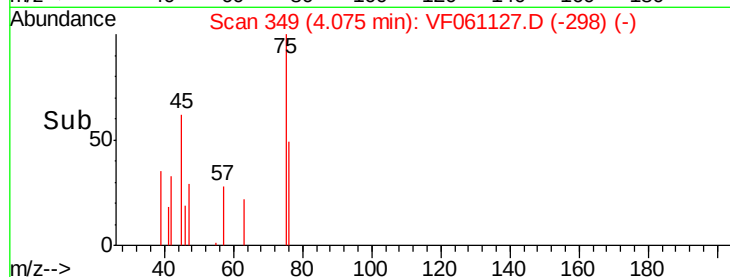
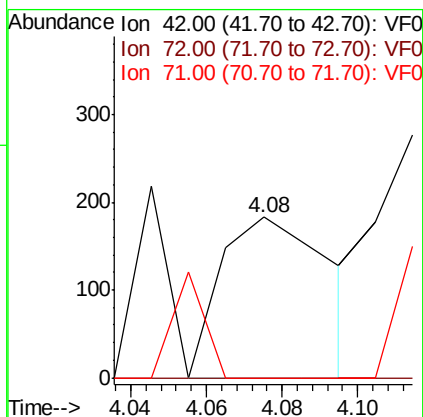
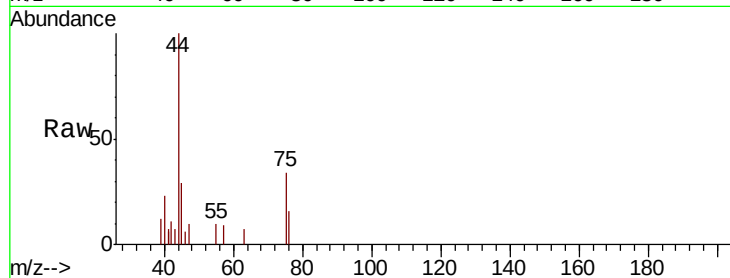
Tot Ion: 42 Resp: 364

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 19.8 29.7 44.5#



#33

1,2-Dichloroethane-d4

Concen: 6.283 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.04 min

Lab File: VF061127.D

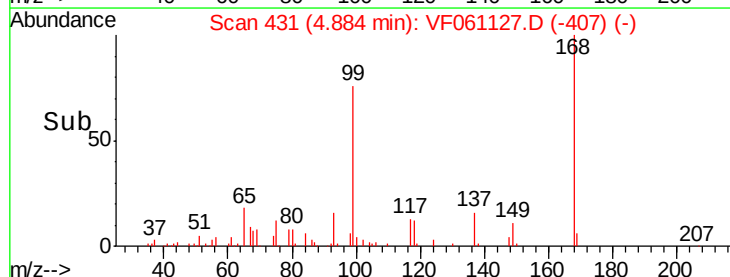
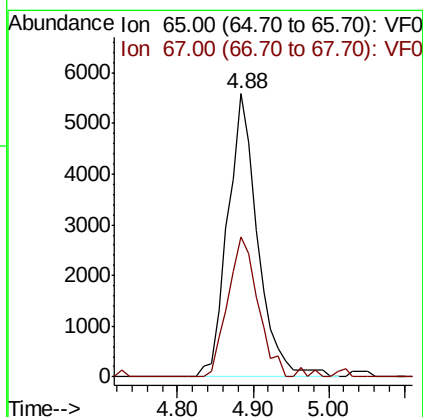
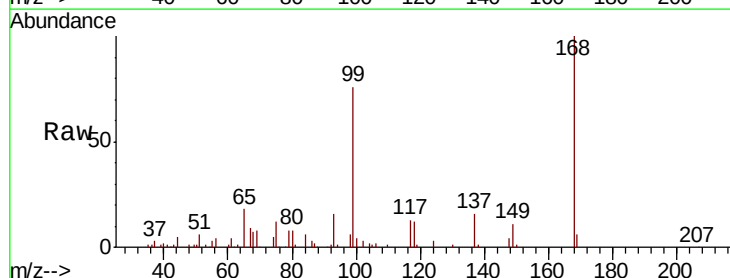
Acq: 21 Dec 2018 15:46

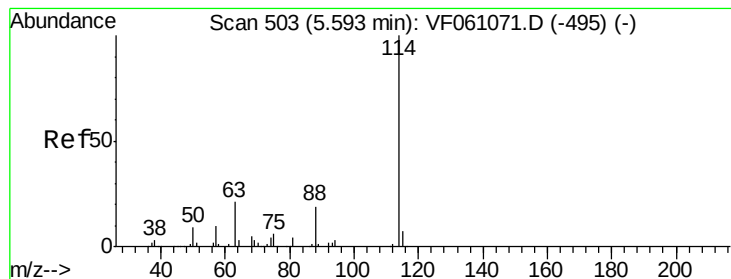
Tgt Ion: 65 Resp: 15333

Ion Ratio Lower Upper

65 100

67 49.6 0.0 94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. 0.04 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

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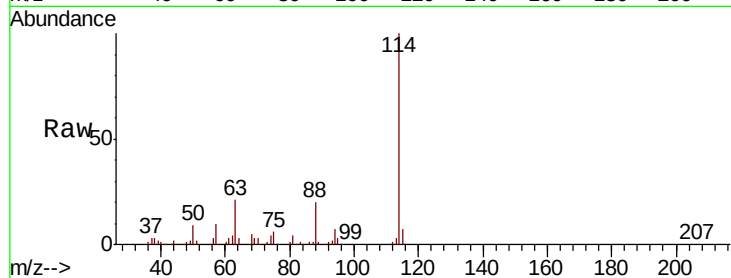
Tot Ion:114 Resp: 352522

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.6

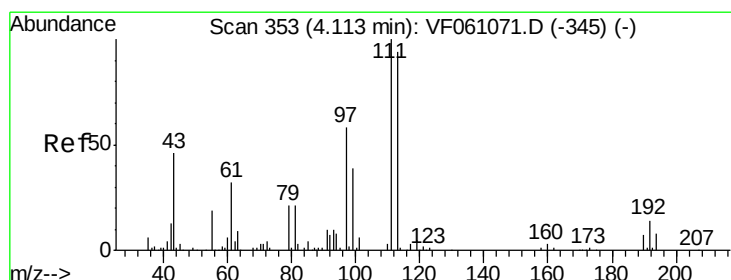
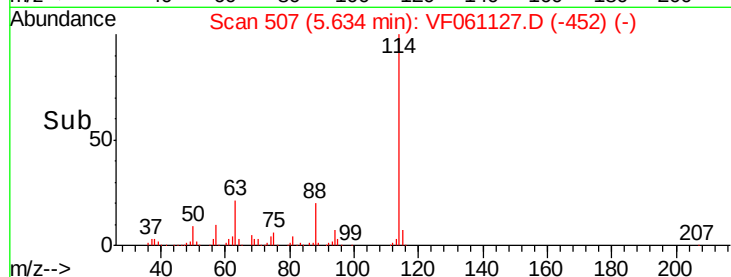
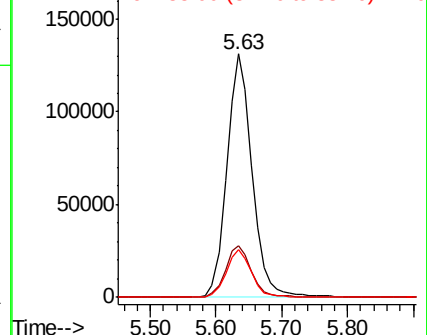
88 19.7 0.0 38.0



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: 5.511 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.04 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

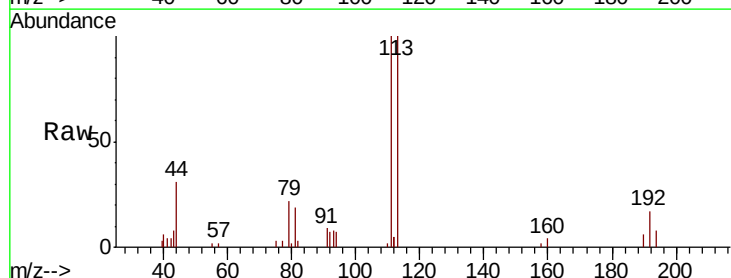
Tgt Ion:113 Resp: 15562

Ion Ratio Lower Upper

113 100

111 99.8 85.2 127.8

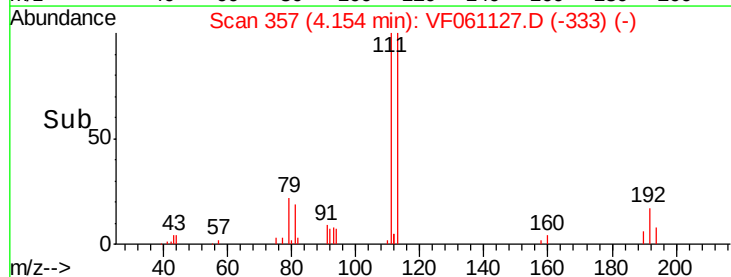
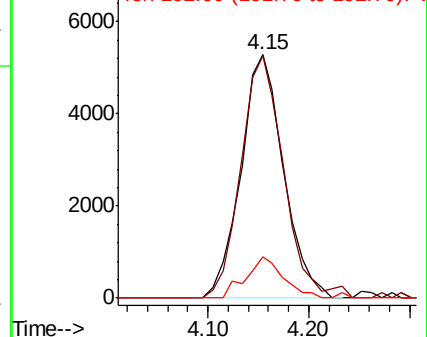
192 17.2 12.8 19.2

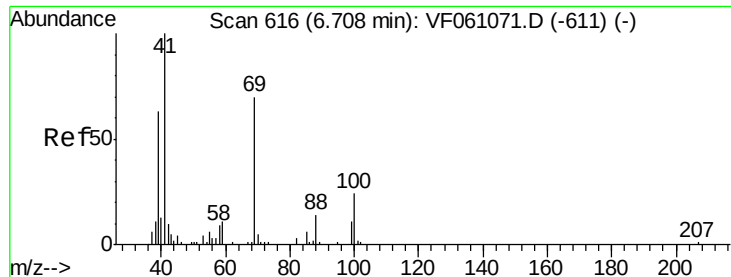


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

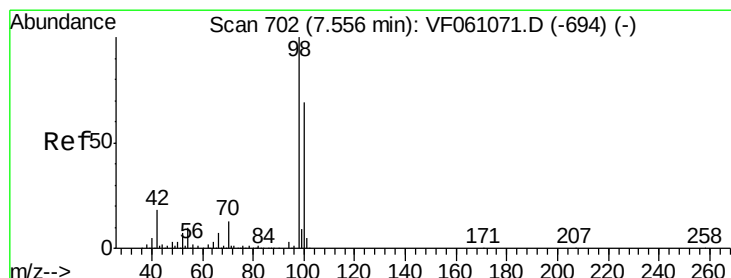
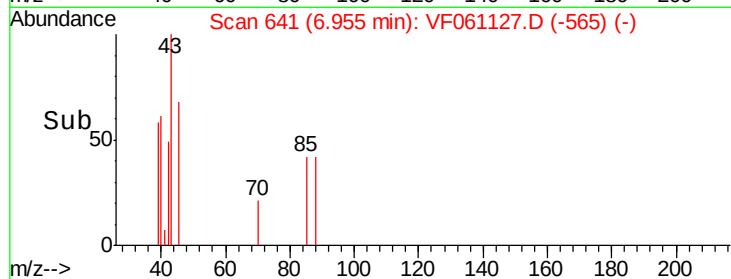
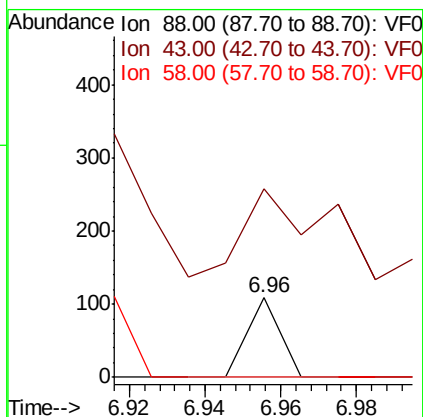
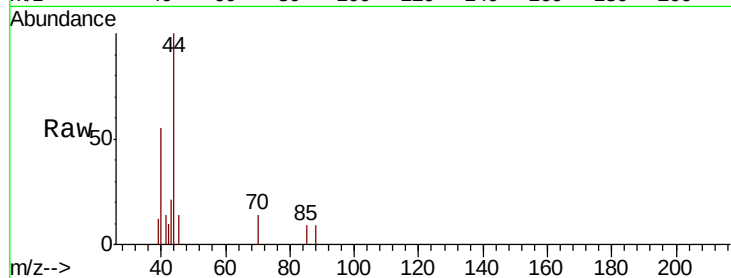




#49
1,4-Dioxane
Concen: 6.245 ug/l
RT: 6.96 min Scan# 641
Delta R.T. 0.25 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

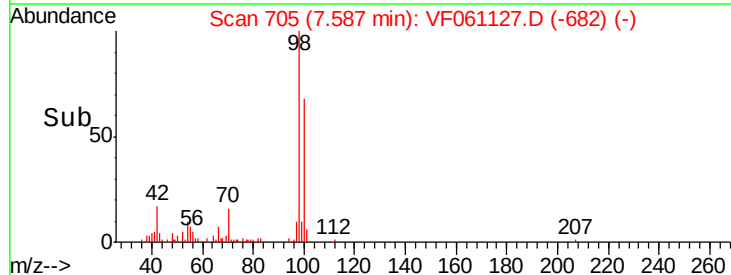
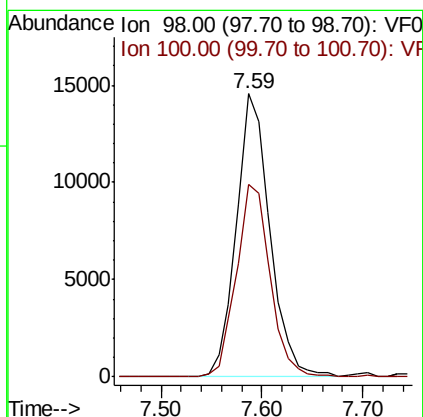
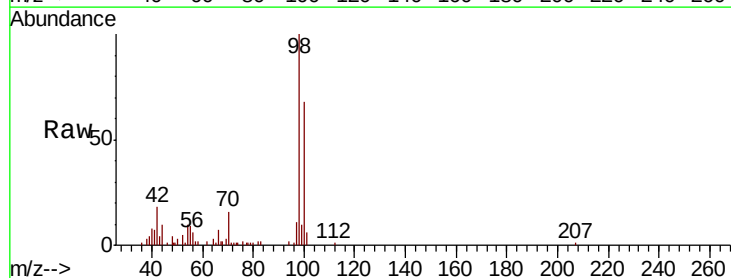
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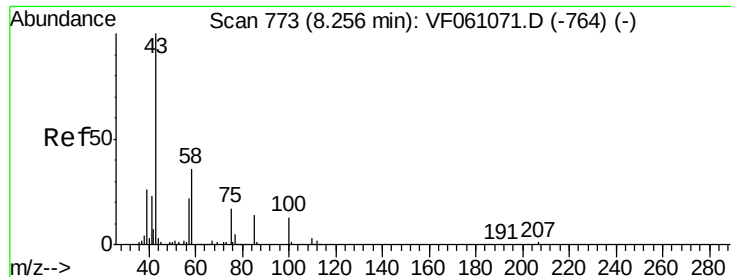
Tot Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 235.8 33.3 49.9#
58 0.0 53.2 79.8#



#50
Toluene-d8
Concen: 4.215 ug/l
RT: 7.59 min Scan# 705
Delta R.T. 0.03 min
Lab File: VF061127.D
Acq: 21 Dec 2018 15:46

Tgt Ion: 98 Resp: 33729
Ion Ratio Lower Upper
98 100
100 67.8 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.509 ug/l

RT: 8.31 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

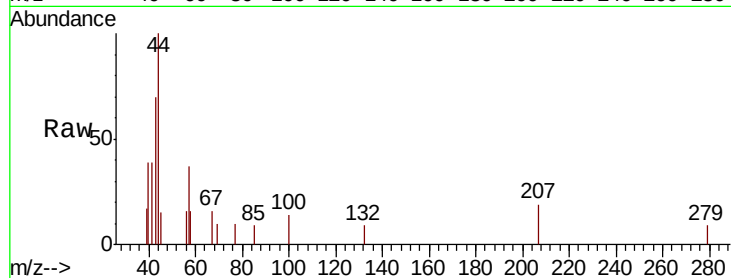
SU-02-121818-ARE

Tot Ion: 43 Resp: 2126

Ion Ratio Lower Upper

43 100

58 22.8 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.31

800

600

400

200

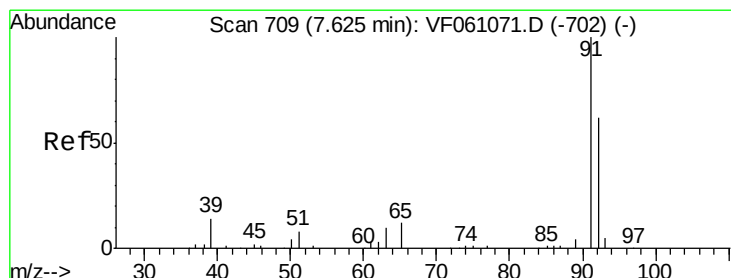
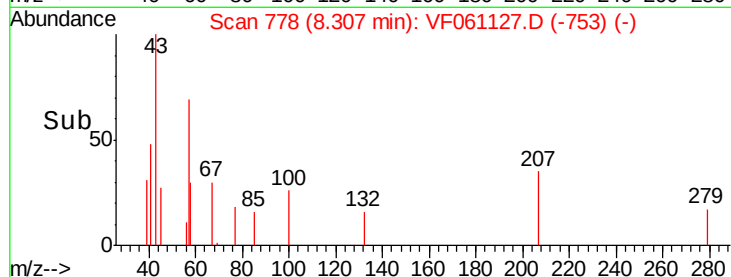
0

8.25

8.30

8.35

Time-->



#52

Toluene

Concen: 5.703 ug/l

RT: 7.66 min Scan# 712

Delta R.T. 0.03 min

Lab File: VF061127.D

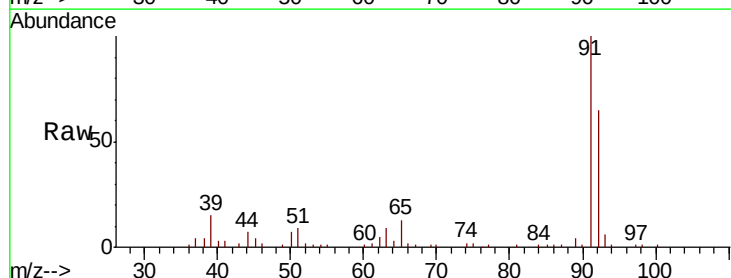
Acq: 21 Dec 2018 15:46

Tgt Ion: 92 Resp: 34543

Ion Ratio Lower Upper

92 100

91 154.4 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.66

25000

20000

15000

10000

5000

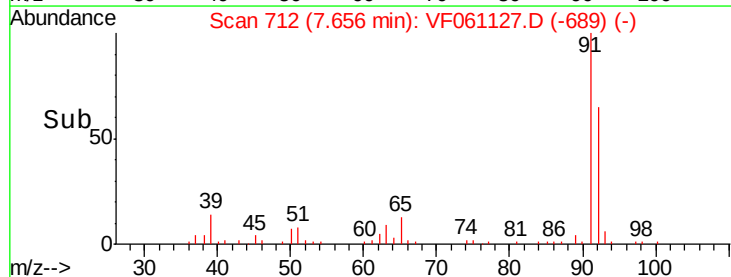
0

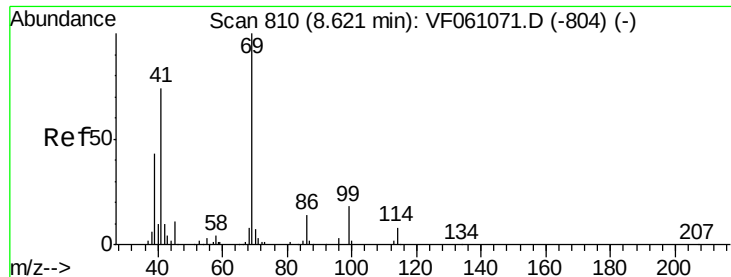
7.60

7.65

7.70

Time-->





#56

Ethyl methacrylate

Concen: 1.082 ug/l

RT: 8.65 min Scan# 813

Delta R.T. 0.03 min

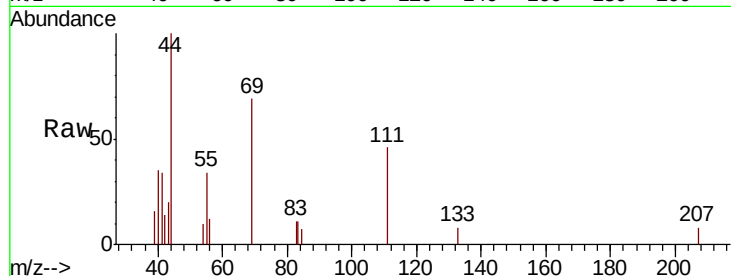
Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

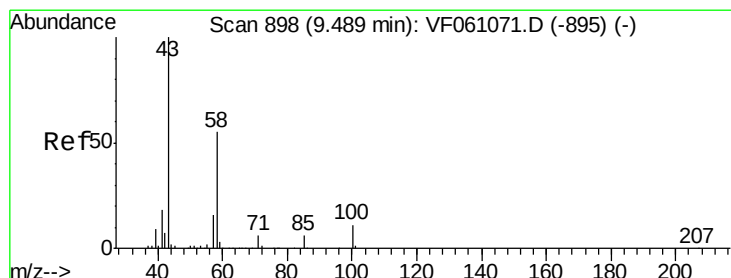
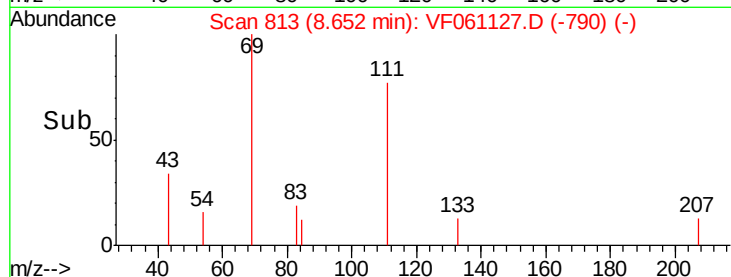
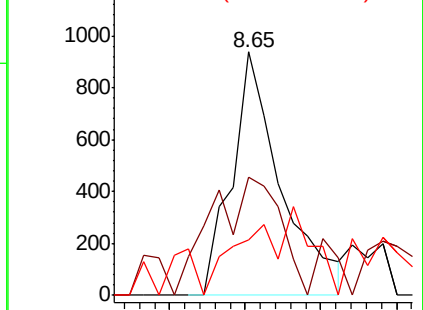
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-ARE

Tot Ion: 69 Resp: 2127

Ion	Ratio	Lower	Upper
69	100		
41	48.6	59.7	89.5#
39	22.9	35.0	52.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0
Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 1.521 ug/l

RT: 9.53 min Scan# 902

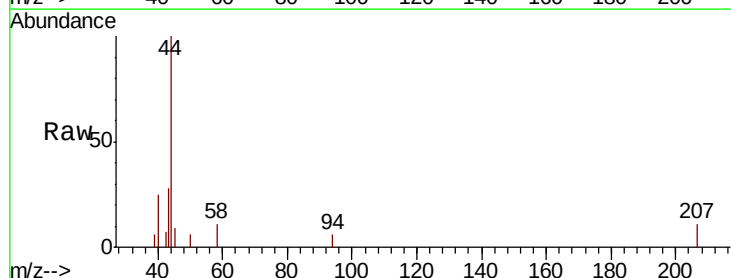
Delta R.T. 0.04 min

Lab File: VF061127.D

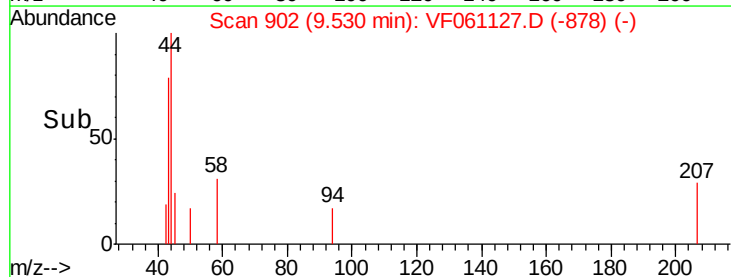
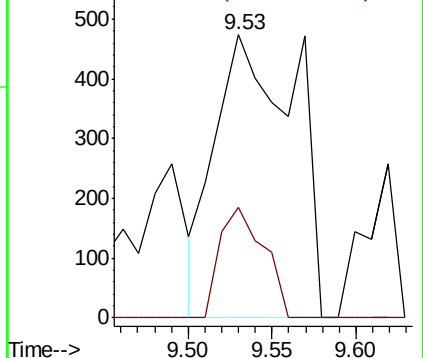
Acq: 21 Dec 2018 15:46

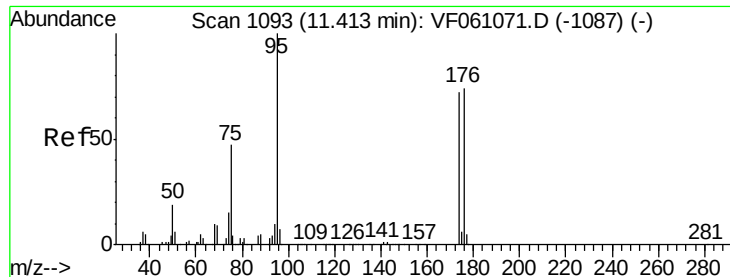
Tgt Ion: 43 Resp: 1550

Ion	Ratio	Lower	Upper
43	100		
58	39.3	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: 4.273 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.03 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

SU-02-121818-ARE

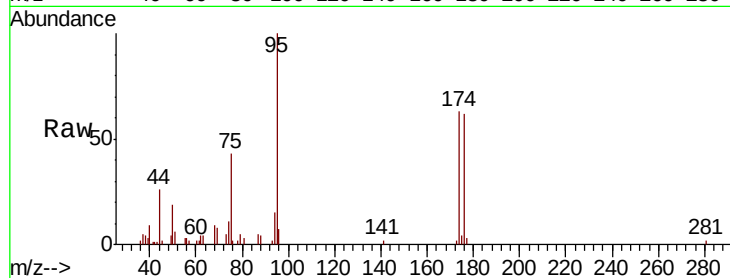
Tot Ion: 95 Resp: 15765

Ion Ratio Lower Upper

95 100

174 63.0 0.0 143.8

176 62.4 0.0 147.6

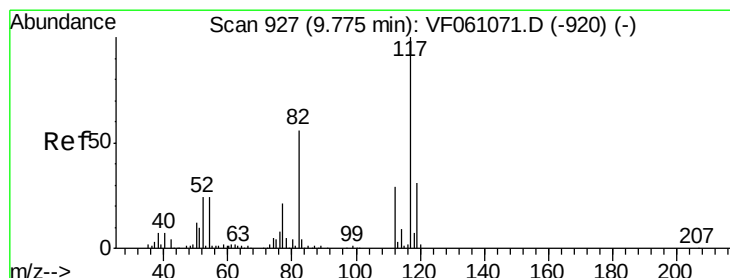
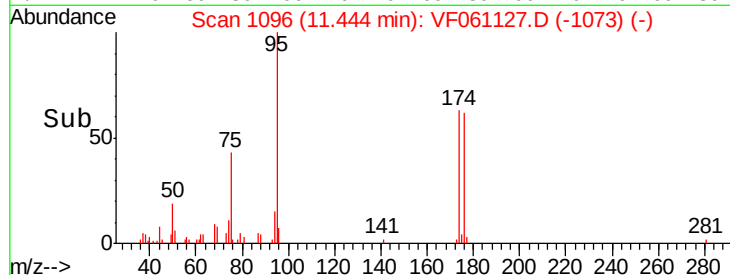
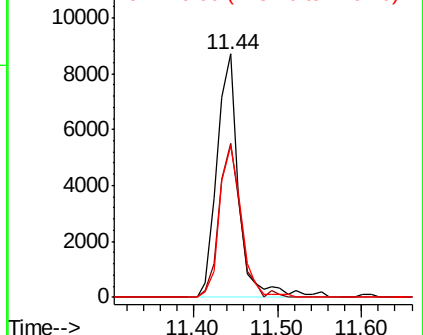


Abundance

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: 9.82 min Scan# 931

Delta R.T. 0.04 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

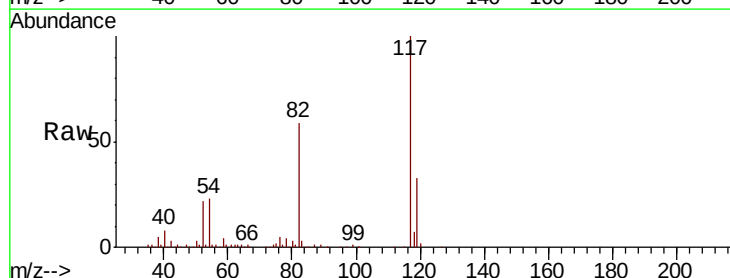
Tgt Ion: 117 Resp: 251609

Ion Ratio Lower Upper

117 100

82 58.7 45.0 67.4

119 32.8 24.8 37.2

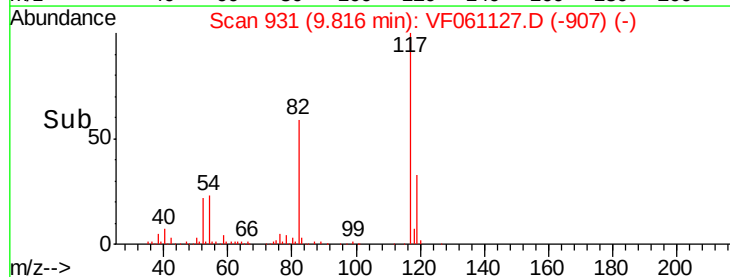
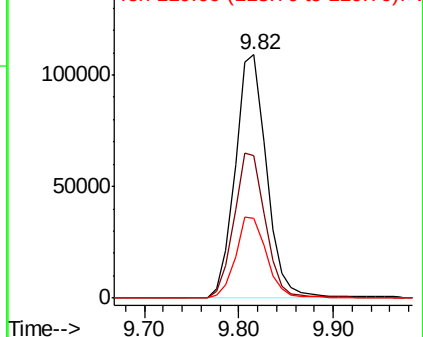


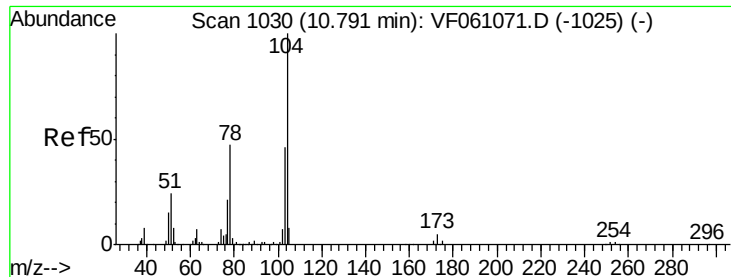
Abundance

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





#70

Stvrene

Concen: Below Cal

RT: 10.82 min Scan# 1033

Delta R.T. 0.03 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

SU-02-121818-ARE

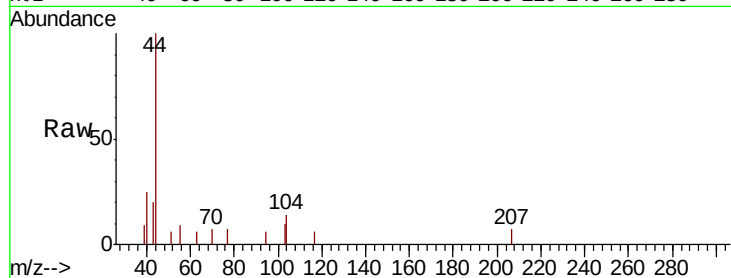
Tot Ion:104 Resp: 208

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

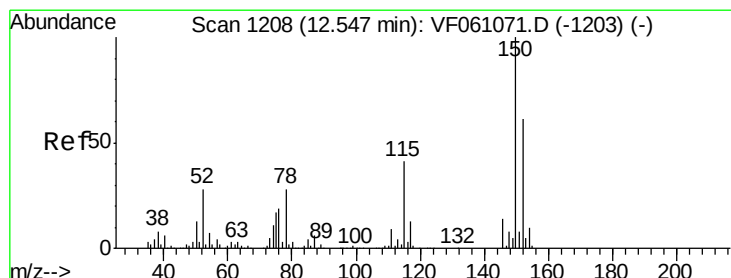
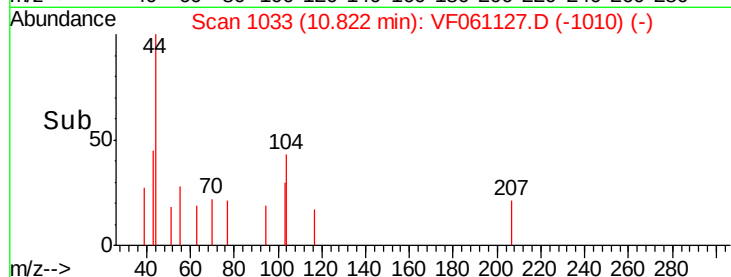
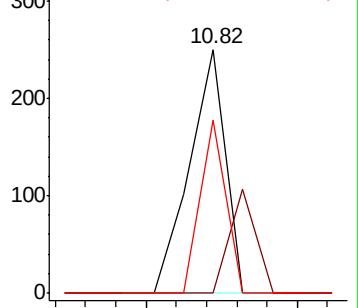
103 70.8 37.0 55.6#



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: 12.58 min Scan# 1211

Delta R.T. 0.03 min

Lab File: VF061127.D

Acq: 21 Dec 2018 15:46

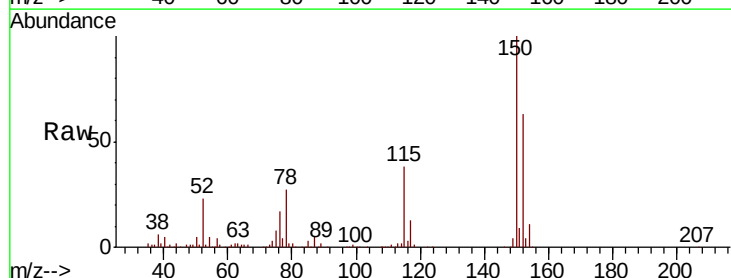
Tgt Ion:152 Resp: 105168

Ion Ratio Lower Upper

152 100

115 59.7 33.3 99.9

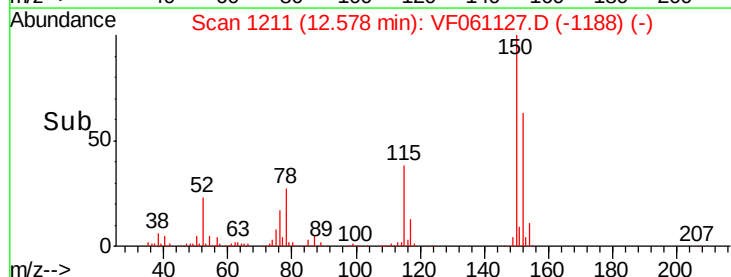
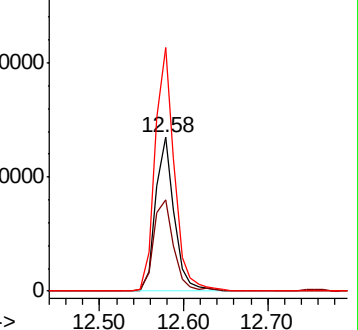
150 158.4 0.0 328.2

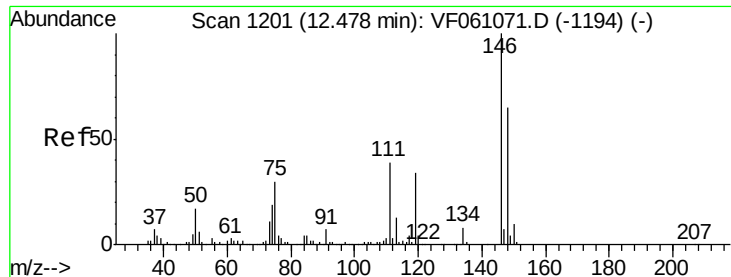


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

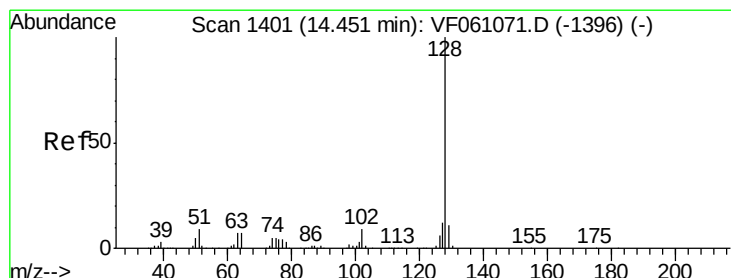
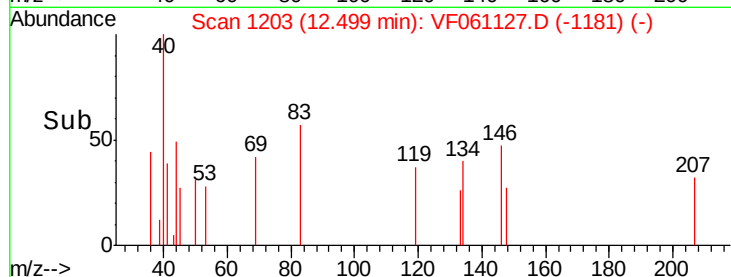
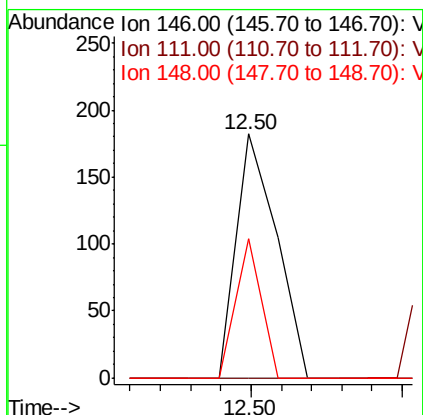
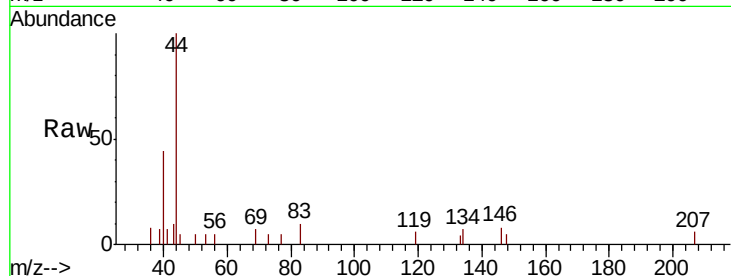




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.50 min Scan# 1203
 Delta R.T. 0.02 min
 Lab File: VF061127.D
 Acq: 21 Dec 2018 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-ARE

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	57.1	32.4	97.2



#95
 Naphthalene
 Concen: 1.401 ug/l
 RT: 14.48 min Scan# 1404
 Delta R.T. 0.03 min
 Lab File: VF061127.D
 Acq: 21 Dec 2018 15:46

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.9	9.4	14.2
129	21.1	8.8	13.2#

