

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059320.D
 Acq On : 26 Jun 2018 16:46
 Operator : VA/AP
 Sample : J3664-09RE
 Misc : 6.21g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB476-27-29-180619RE

Quant Time: Jun 27 02:20:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

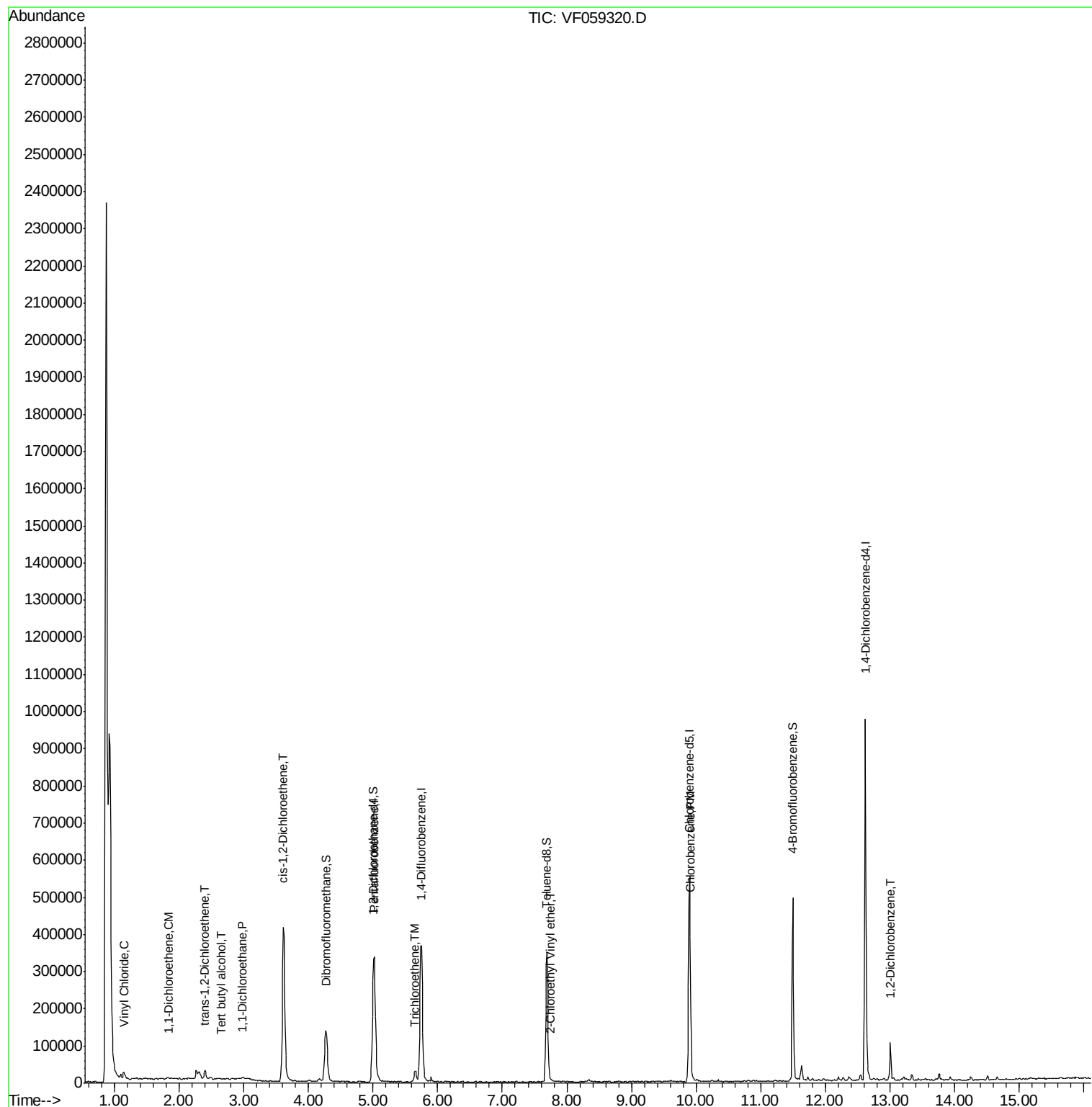
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	254163	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	396537	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	390824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	249724	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	136263	41.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.00%	
35) Dibromofluoromethane	4.27	113	127260	43.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.84%	
50) Toluene-d8	7.69	98	289929	40.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.84%	
62) 4-Bromofluorobenzene	11.50	95	165268	40.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.68%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.15	62	24517	15.966	ug/l	91
5) Bromomethane	1.42	94	266	Below Cal		98
11) Tert butyl alcohol	2.65	59	295	1.349	ug/l #	10
12) 1,1-Dichloroethene	1.85	96	2068	1.380	ug/l #	52
13) Acrolein	2.08	56	336	Below Cal	#	1
16) Acetone	2.20	43	947	Below Cal		95
18) Methyl Acetate	2.43	43	632	Below Cal	#	61
20) Methylene Chloride	2.27	84	10011	Below Cal	#	77
21) trans-1,2-Dichloroethene	2.40	96	8800	5.505	ug/l	89
24) 1,1-Dichloroethane	2.99	63	5858	1.517	ug/l #	92
25) 2-Butanone	4.48	43	1743	Below Cal	#	59
27) cis-1,2-Dichloroethene	3.61	96	232984	96.001	ug/l	86
28) Bromochloromethane	3.86	49	96	Below Cal	#	6
29) Tetrahydrofuran	4.22	42	354	Below Cal	#	56
37) Ethyl Acetate	4.24	43	437	Below Cal	#	86
44) Trichloroethene	5.66	130	13426	5.096	ug/l	75
49) 1,4-Dioxane	6.91	88	135	Below Cal	#	18
58) 2-Chloroethyl Vinyl ether	7.75	63	269	1.298	ug/l	100
59) 2-Hexanone	9.61	43	3077	Below Cal		89
65) Chlorobenzene	9.92	112	10258	1.416	ug/l #	86
87) 1,3-Dichlorobenzene	12.54	146	5354	Below Cal		80
91) 1,2-Dichlorobenzene	13.01	146	33875	4.623	ug/l	97

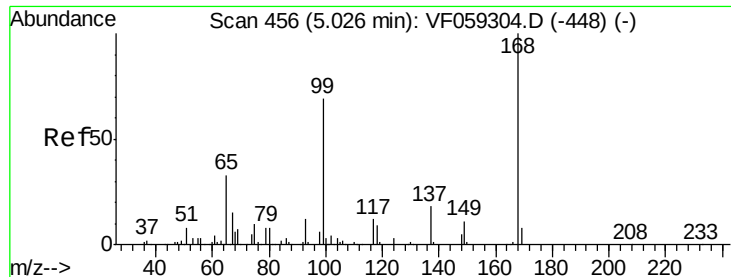
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

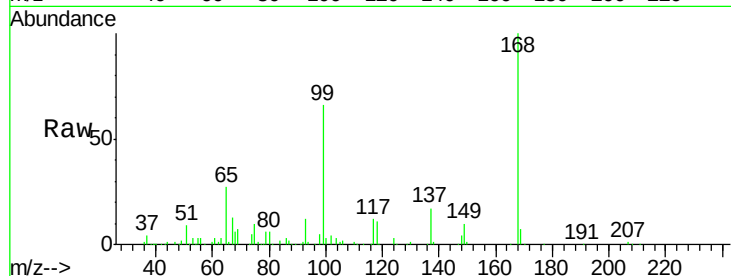
WP021SB476-27-29-180619RE

Tot Ion:168 Resp: 254163

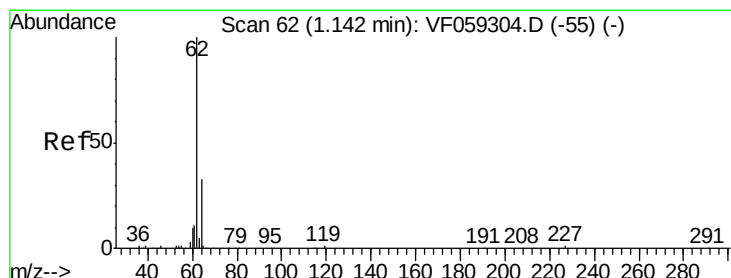
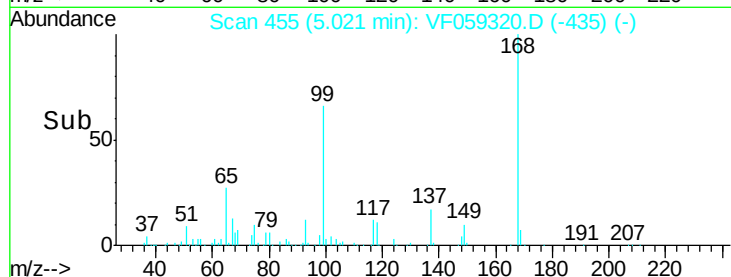
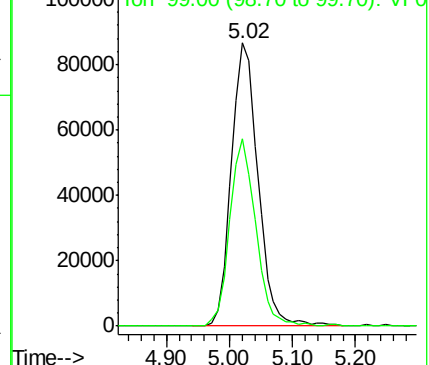
Ion Ratio Lower Upper

168 100

99 66.1 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#4

Vinyl Chloride

Concen: 15.966 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059320.D

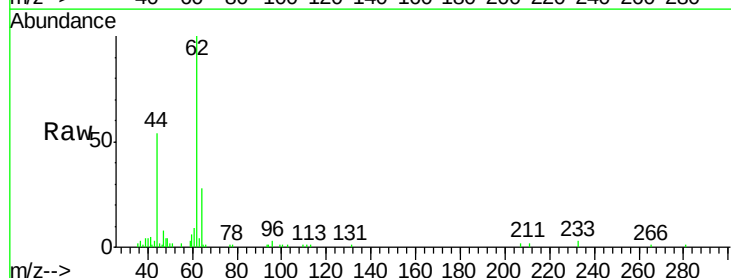
Acq: 26 Jun 2018 16:46

Tgt Ion: 62 Resp: 24517

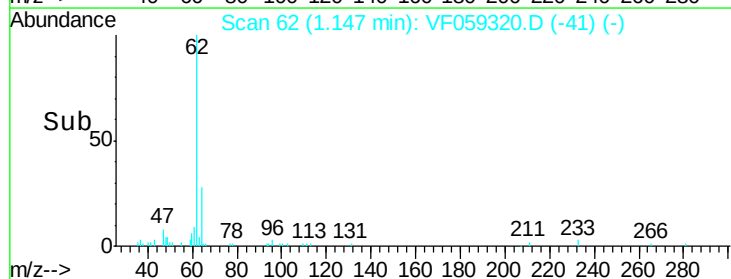
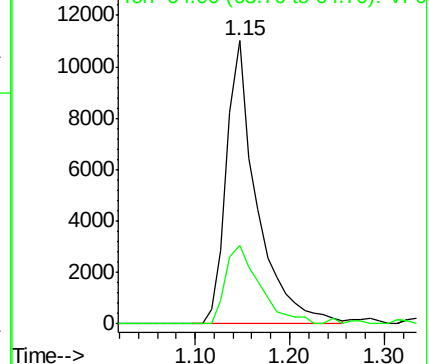
Ion Ratio Lower Upper

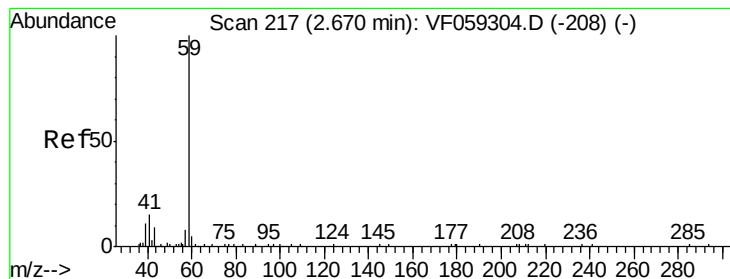
62 100

64 27.6 26.3 39.5



Abundance Ion 62.00 (61.70 to 62.70): VF0



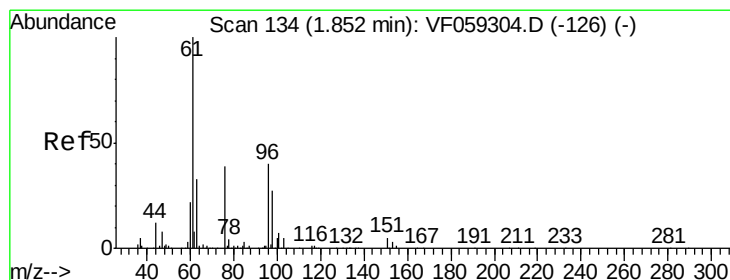
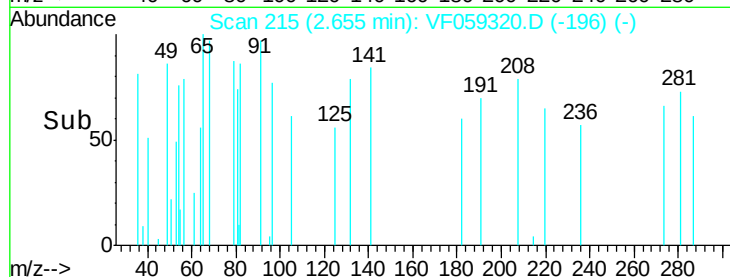
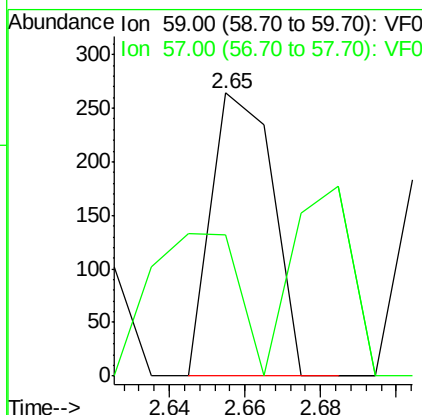
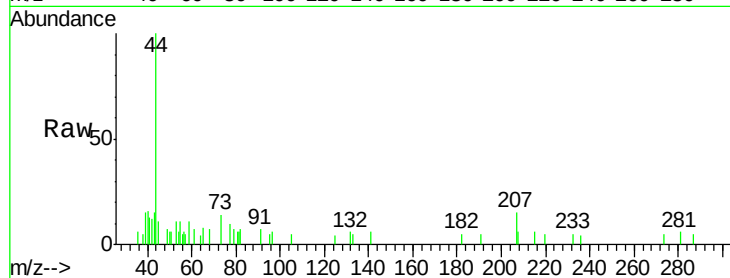


#11

Tert butyl alcohol
 Concen: 1.349 ug/l
 RT: 2.65 min Scan# 215
 Delta R.T. -0.02 min
 Lab File: VF059320.D
 Acq: 26 Jun 2018 16:46

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB476-27-29-180619RE

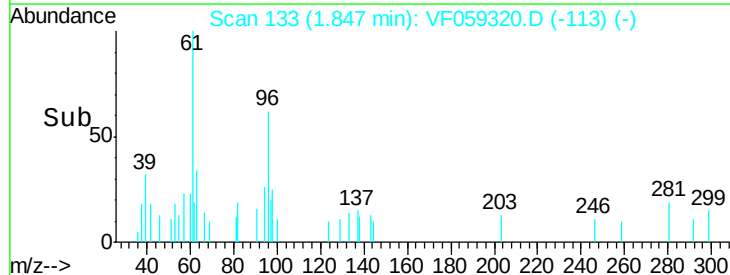
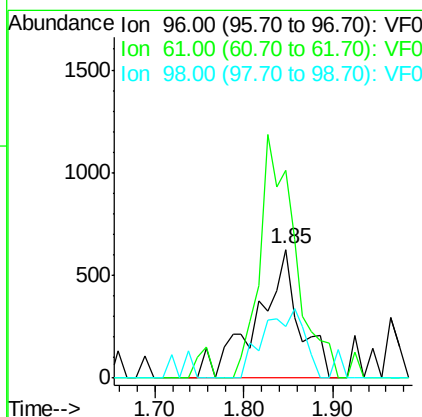
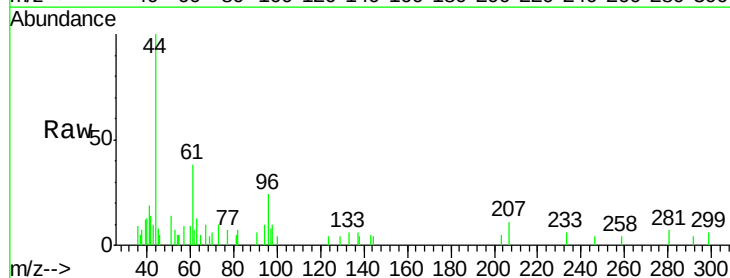
Tot Ion: 59 Resp: 295
 Ion Ratio Lower Upper
 59 100
 57 50.0 11.0 16.4#

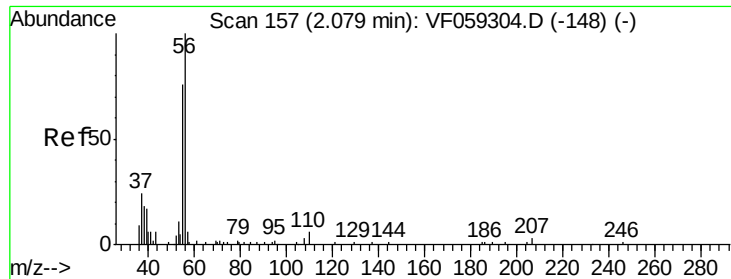


#12

1,1-Dichloroethene
 Concen: 1.380 ug/l
 RT: 1.85 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VF059320.D
 Acq: 26 Jun 2018 16:46

Tgt Ion: 96 Resp: 2068
 Ion Ratio Lower Upper
 96 100
 61 161.2 201.1 301.7#
 98 40.4 53.9 80.9#





#13

Acrolein

Concen: Below Cal

RT: 2.08 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

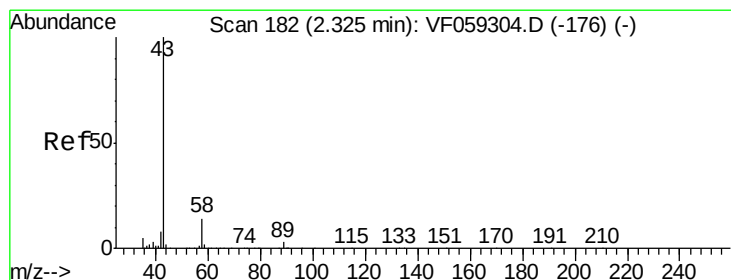
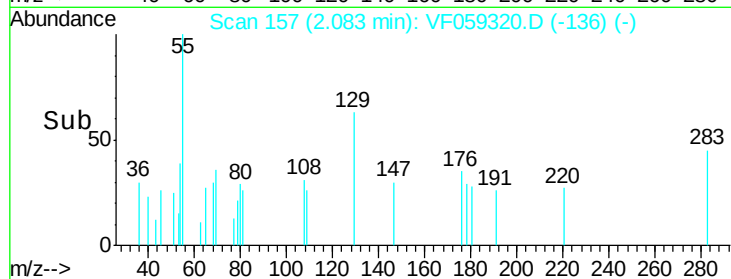
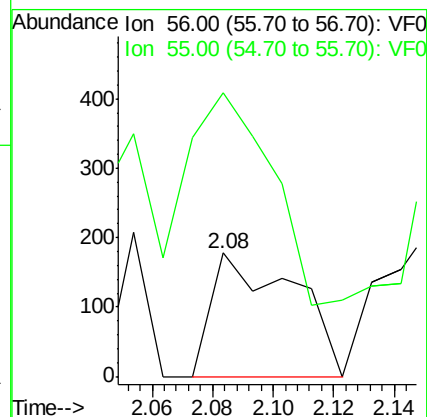
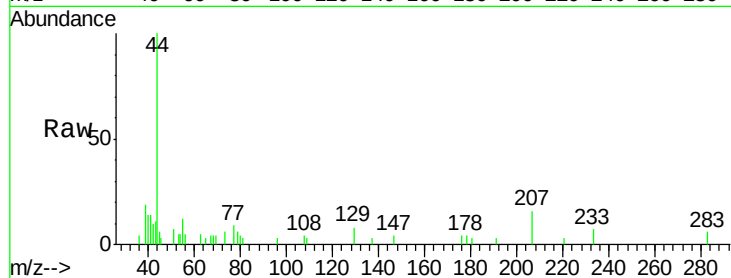
WP021SB476-27-29-180619RE

Tot Ion: 56 Resp: 336

Ion Ratio Lower Upper

56 100

55 229.2 62.4 93.6#



#16

Acetone

Concen: Below Cal

RT: 2.20 min Scan# 169

Delta R.T. -0.12 min

Lab File: VF059320.D

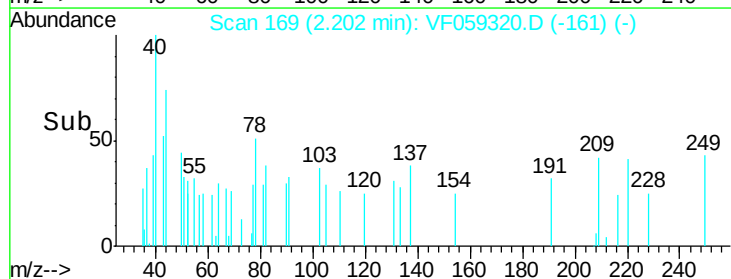
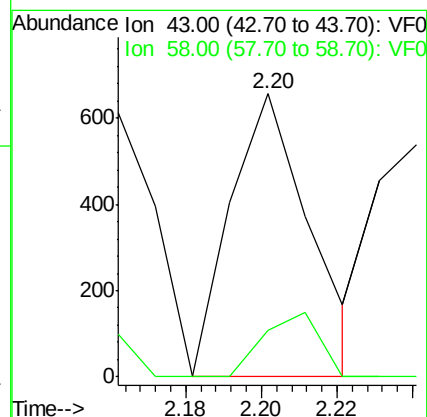
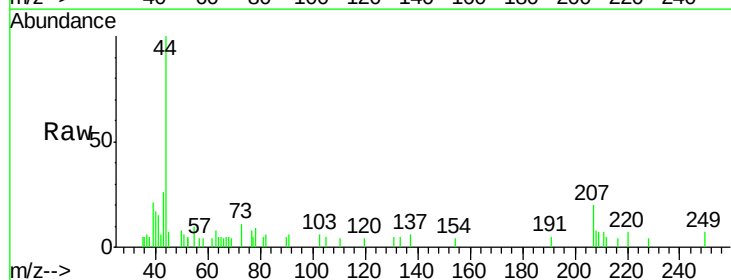
Acq: 26 Jun 2018 16:46

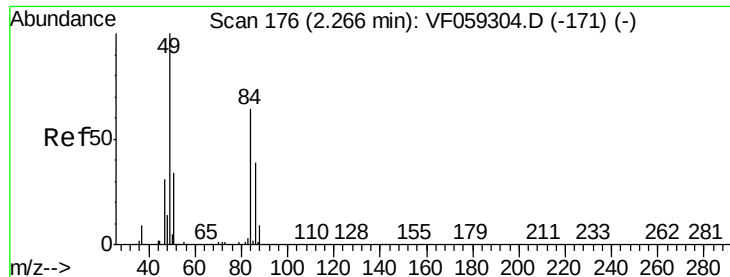
Tgt Ion: 43 Resp: 947

Ion Ratio Lower Upper

43 100

58 16.4 11.4 17.0

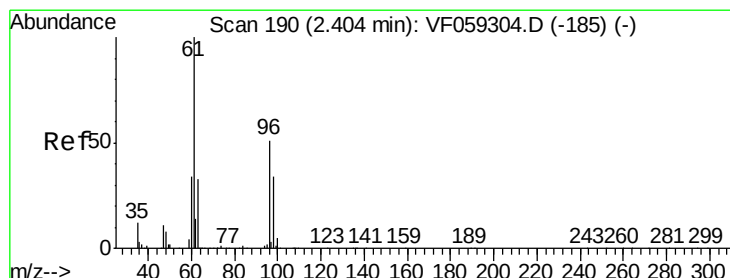
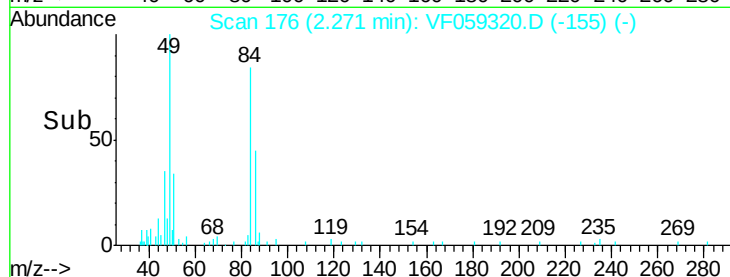
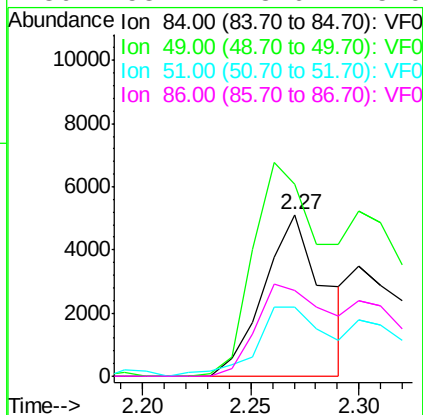
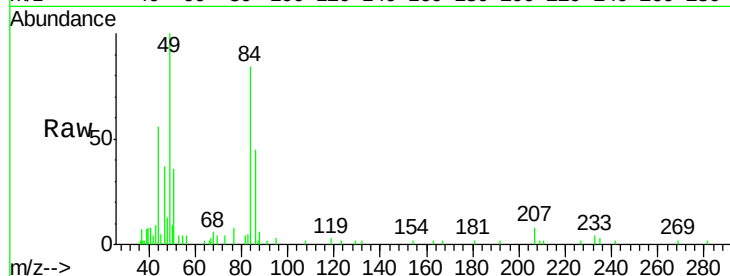




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF059320.D
Acq: 26 Jun 2018 16:46

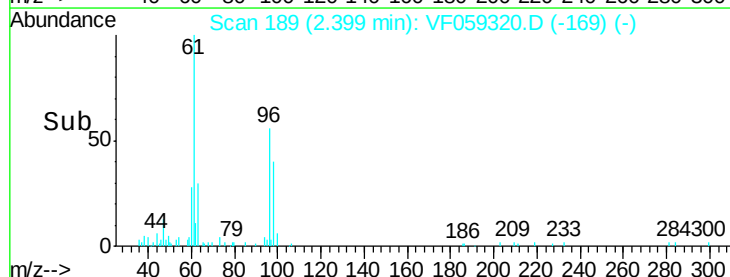
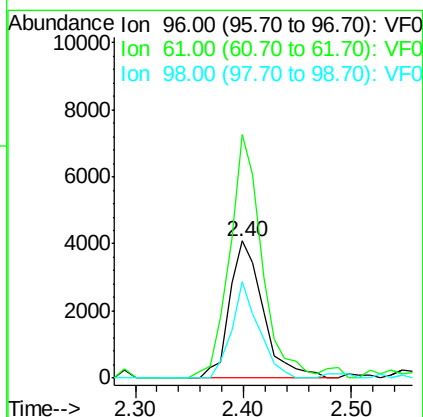
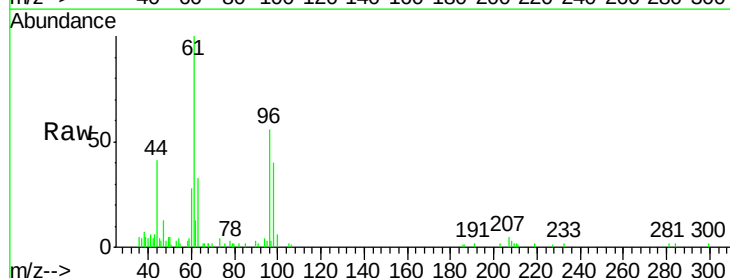
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-27-29-180619RE

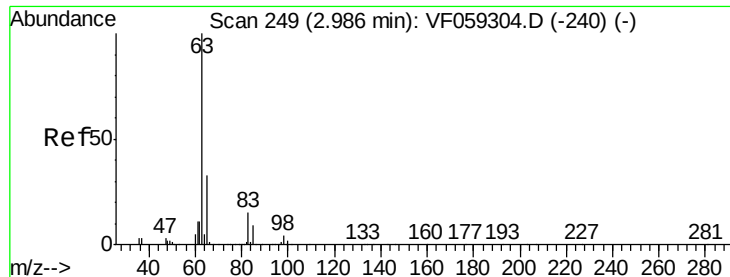
Tot Ion: 84 Resp: 10011
Ion Ratio Lower Upper
84 100
49 118.5 126.5 189.7#
51 43.1 42.9 64.3
86 53.4 48.6 73.0



#21
trans-1,2-Dichloroethene
Concen: 5.505 ug/l
RT: 2.40 min Scan# 189
Delta R.T. -0.01 min
Lab File: VF059320.D
Acq: 26 Jun 2018 16:46

Tgt Ion: 96 Resp: 8800
Ion Ratio Lower Upper
96 100
61 177.5 157.4 236.2
98 70.5 53.7 80.5





#24

1,1-Dichloroethane

Concen: 1.517 ug/l

RT: 2.99 min Scan# 249

Delta R.T. 0.00 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

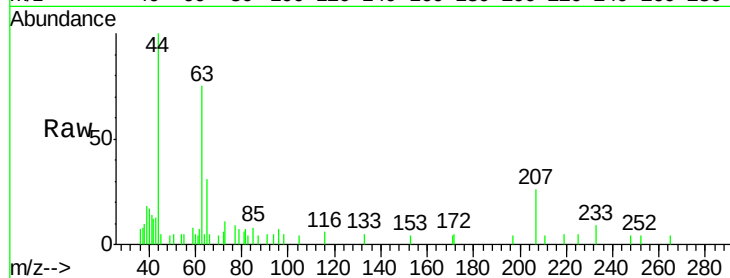
Tot Ion: 63 Resp: 5858

Ion Ratio Lower Upper

63 100

98 7.0 2.0 6.0#

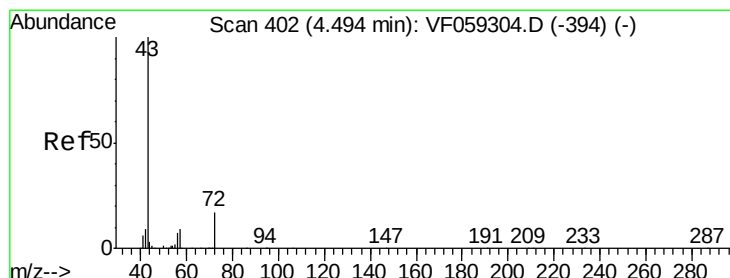
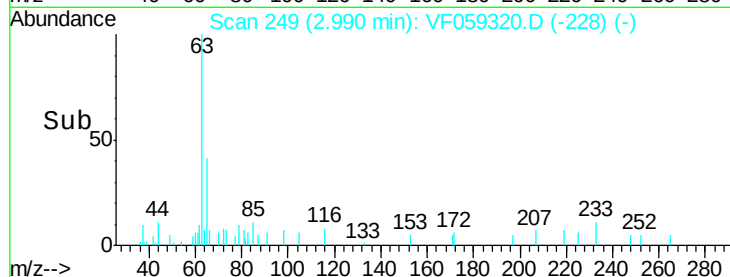
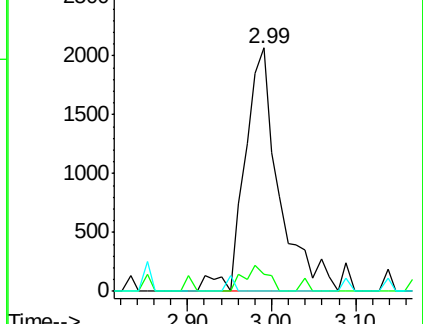
100 0.0 1.3 3.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: Below Cal

RT: 4.48 min Scan# 400

Delta R.T. -0.01 min

Lab File: VF059320.D

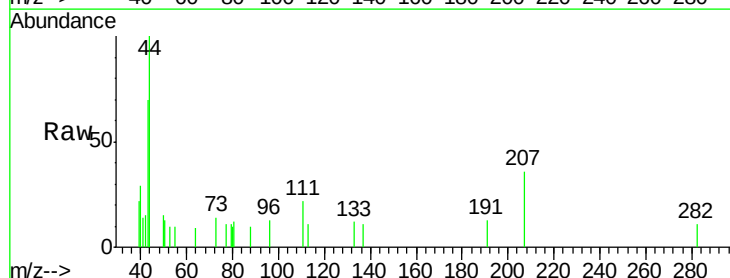
Acq: 26 Jun 2018 16:46

Tgt Ion: 43 Resp: 1743

Ion Ratio Lower Upper

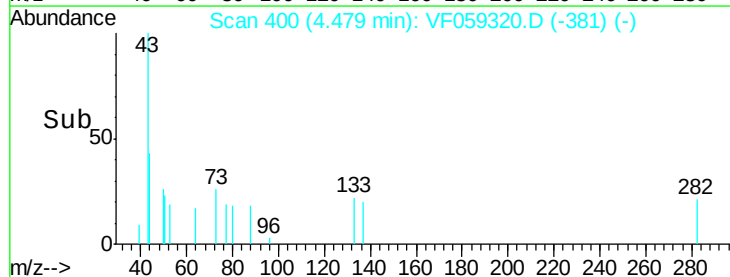
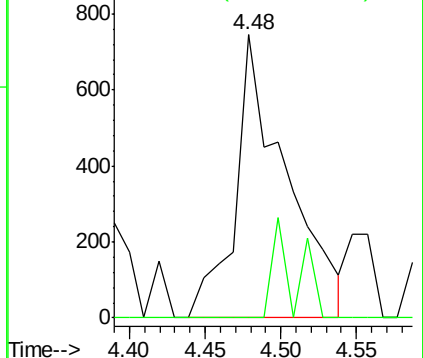
43 100

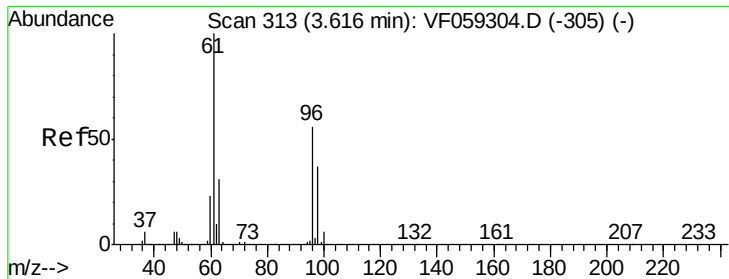
72 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



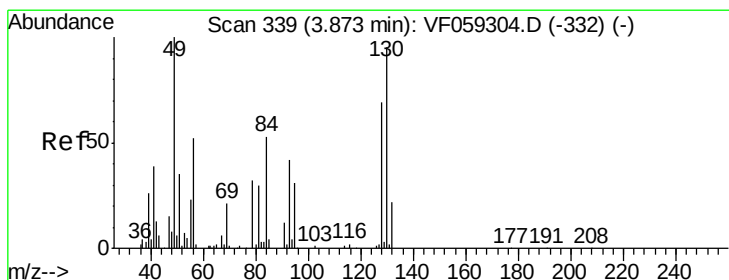
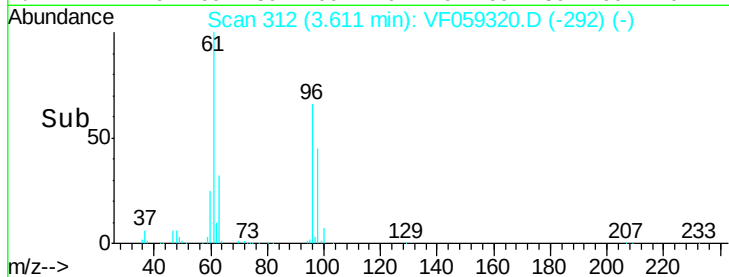
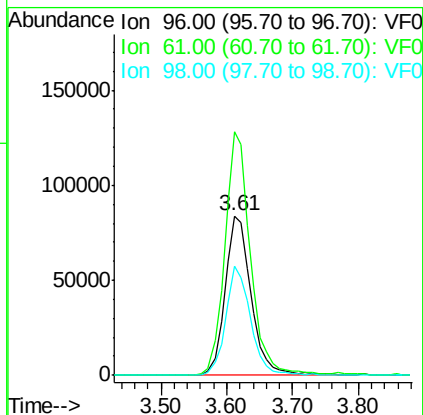
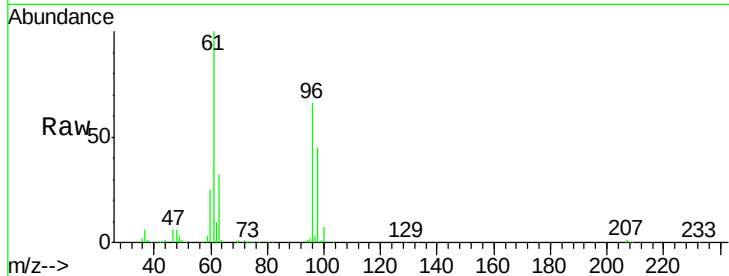


#27

cis-1,2-Dichloroethene
 Concen: 96.001 ug/l
 RT: 3.61 min Scan# 312
 Delta R.T. -0.01 min
 Lab File: VF059320.D
 Acq: 26 Jun 2018 16:46

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB476-27-29-180619RE

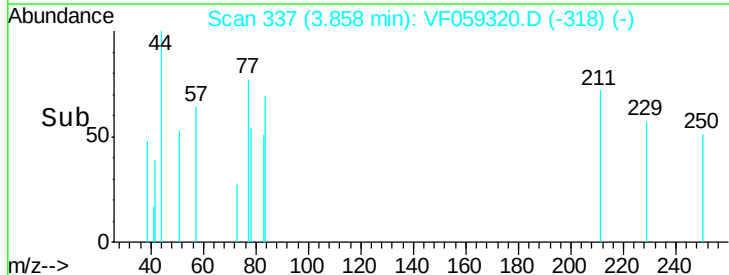
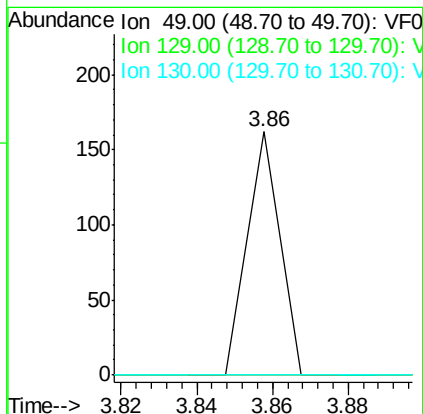
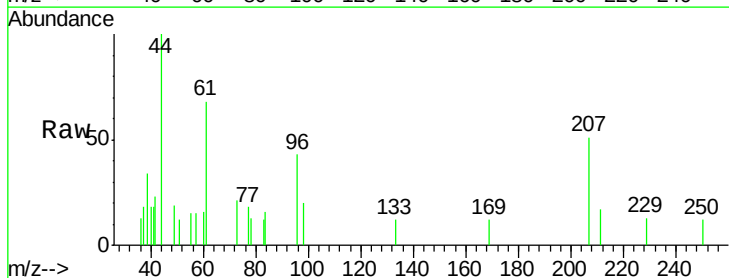
Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	152.5	0.0	355.4	
98	68.5	0.0	131.0	

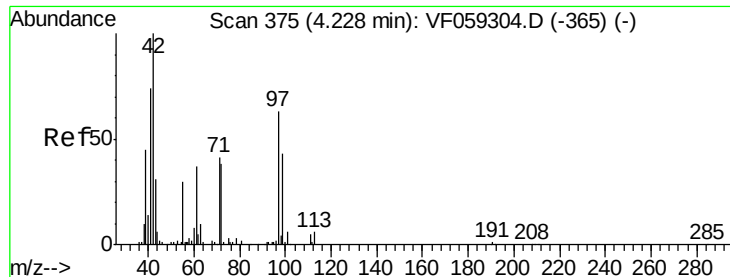


#28

Bromochloromethane
 Concen: Below Cal
 RT: 3.86 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: VF059320.D
 Acq: 26 Jun 2018 16:46

Tgt Ion	Ion	Ratio	Lower	Upper
49	100			
129	0.0	0.0	6.4	
130	0.0	75.1	112.7	

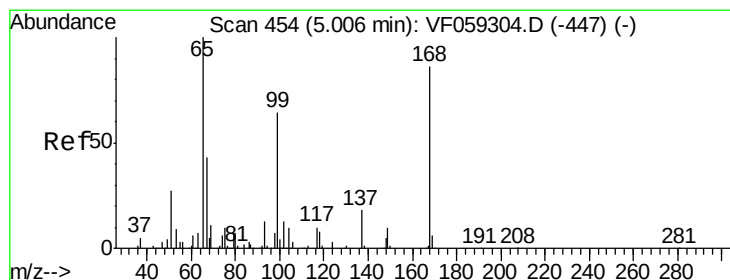
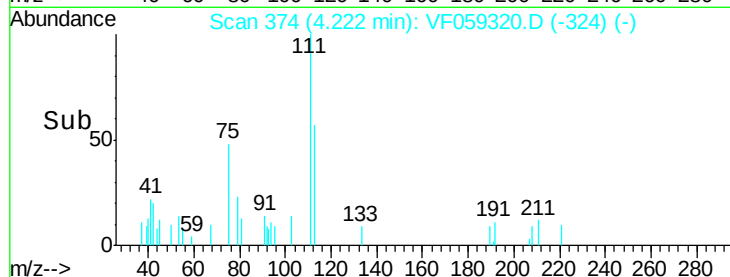
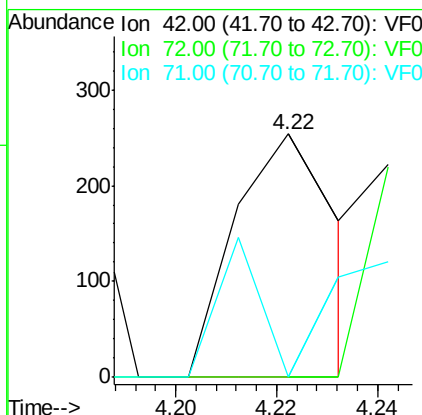
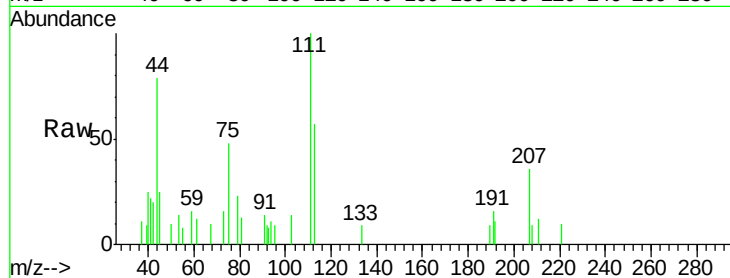




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. -0.00 min
Lab File: VF059320.D
Acq: 26 Jun 2018 16:46

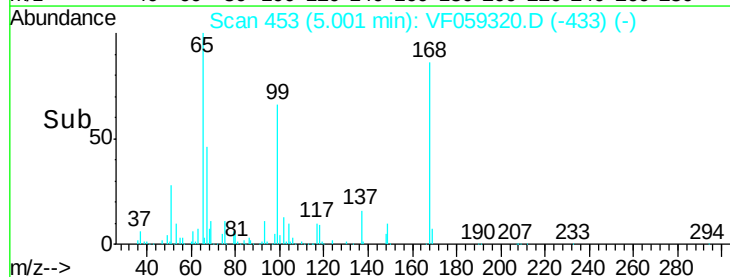
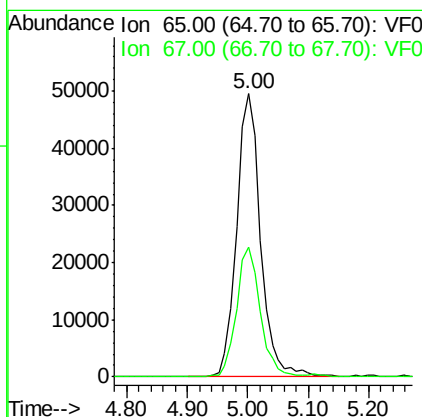
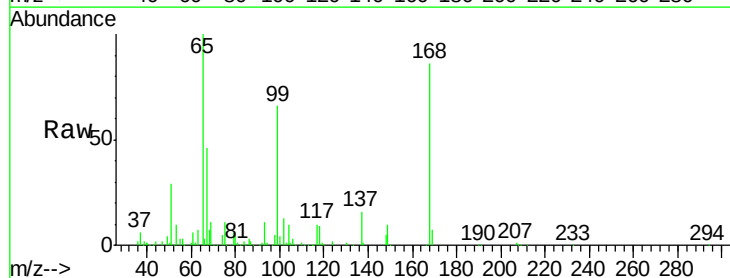
Instrument :
MSVOA_F
ClientSampleId :
WP021SB476-27-29-180619RE

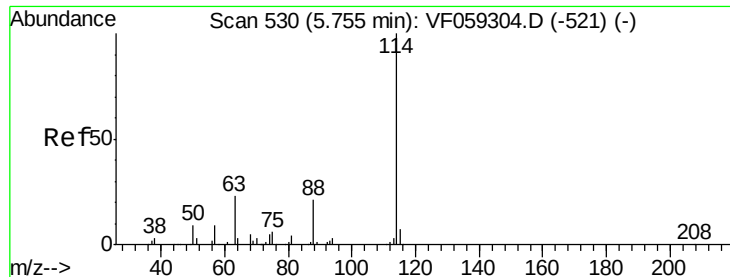
Tot Ion: 42 Resp: 354
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 24.3 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 41.496 ug/l
RT: 5.00 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059320.D
Acq: 26 Jun 2018 16:46

Tgt Ion: 65 Resp: 136263
Ion Ratio Lower Upper
65 100
67 45.9 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

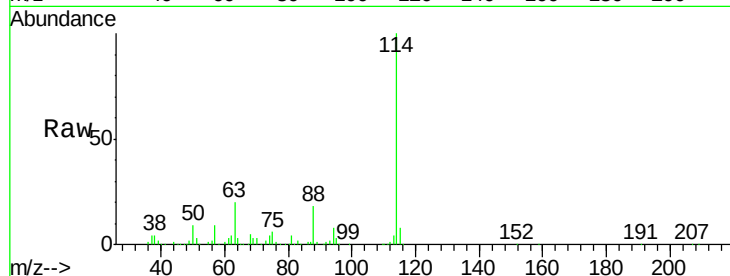
Tot Ion:114 Resp: 396537

Ion Ratio Lower Upper

114 100

63 19.7 0.0 45.8

88 17.6 0.0 41.2



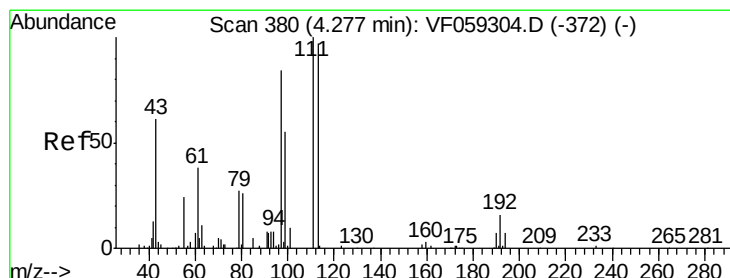
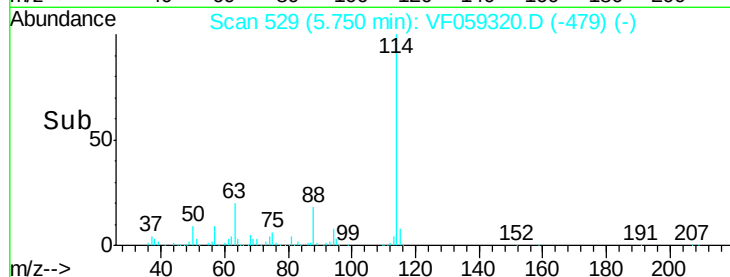
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.75

Time-->



#35

Dibromofluoromethane

Concen: 43.923 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

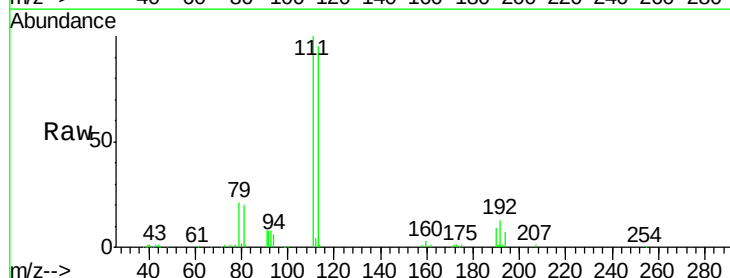
Tgt Ion:113 Resp: 127260

Ion Ratio Lower Upper

113 100

111 105.2 82.1 123.1

192 13.8 13.0 19.6



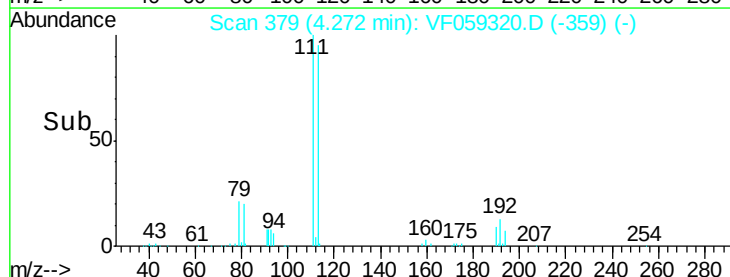
Abundance Ion 113.00 (112.70 to 113.70): V

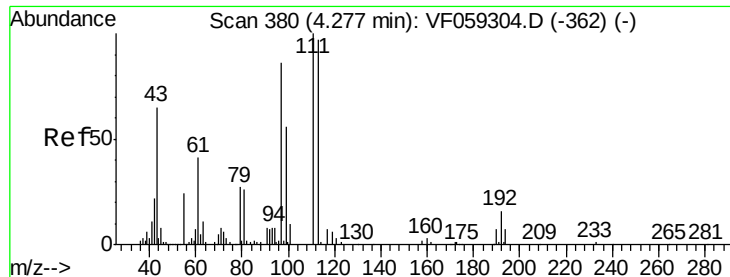
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

4.27

Time-->





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

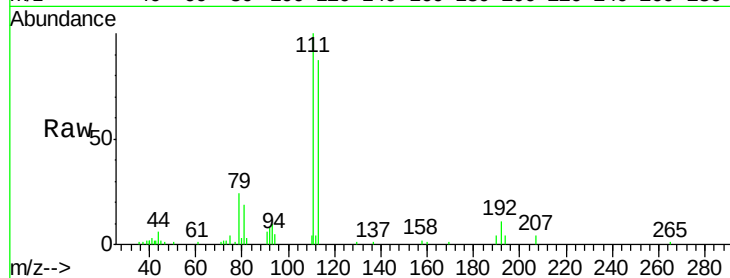
Tot Ion: 43 Resp: 437

Ion Ratio Lower Upper

43 100

61 72.3 50.1 75.1

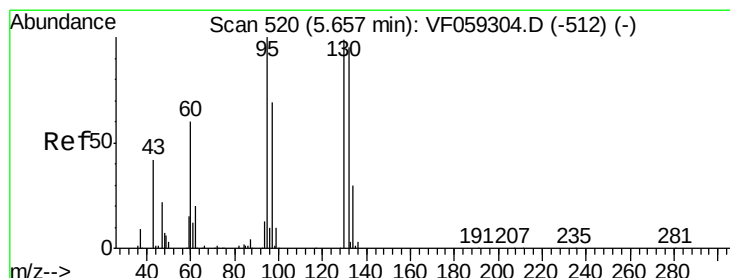
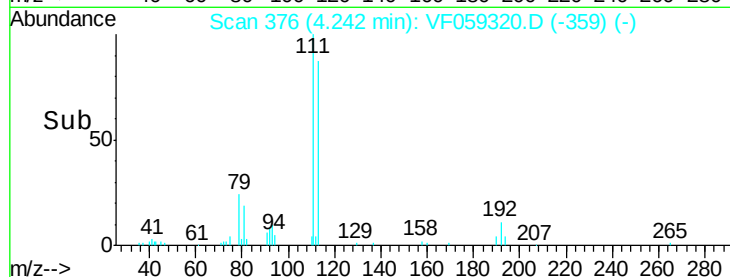
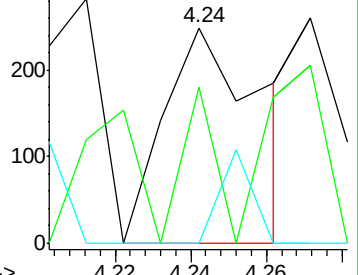
70 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#44

Trichloroethene

Concen: 5.096 ug/l

RT: 5.66 min Scan# 520

Delta R.T. 0.00 min

Lab File: VF059320.D

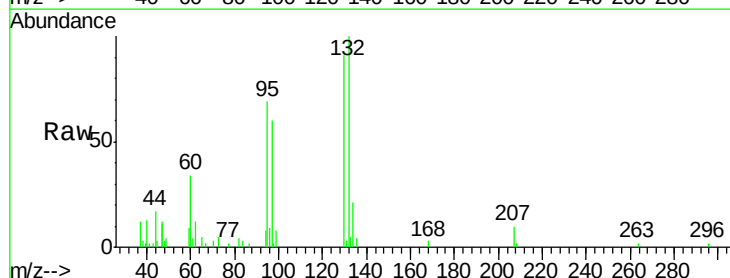
Acq: 26 Jun 2018 16:46

Tgt Ion:130 Resp: 13426

Ion Ratio Lower Upper

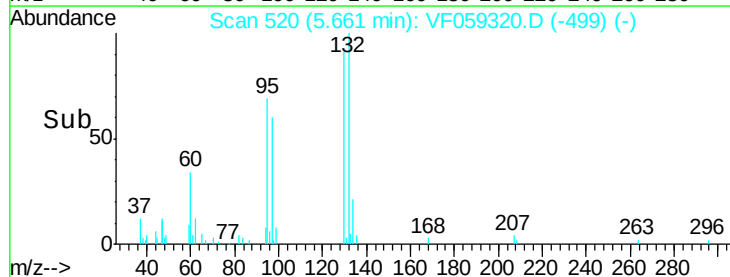
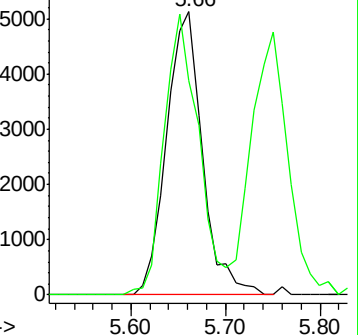
130 100

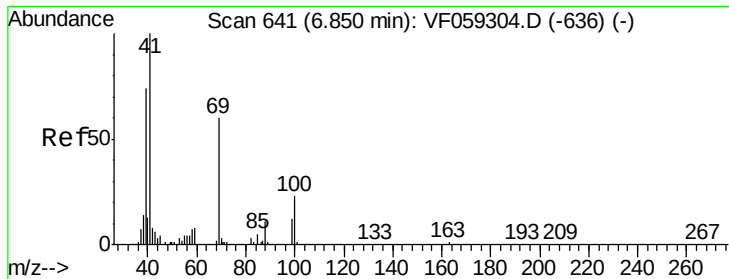
95 75.6 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.91 min Scan# 647

Delta R.T. 0.06 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

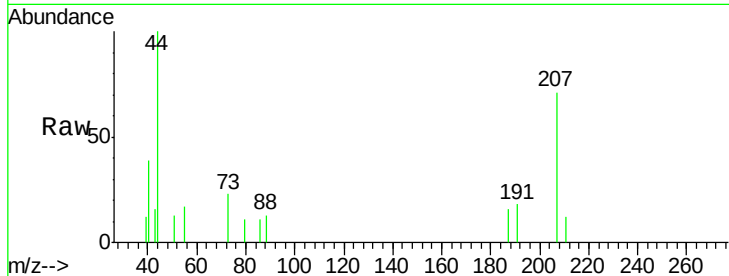
Tot Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 130.3 50.6 75.8#

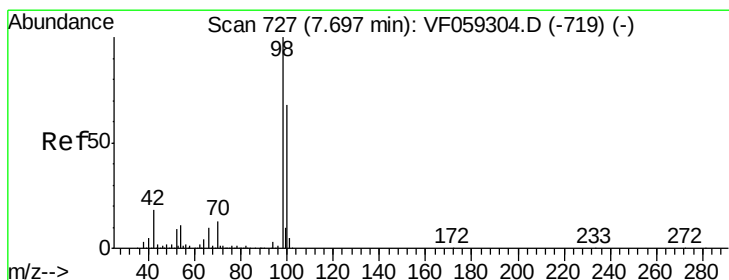
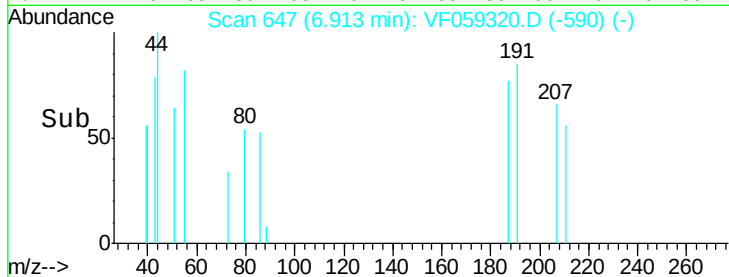
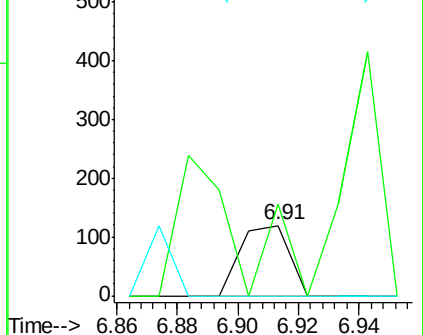
58 0.0 46.6 69.8#



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: 40.416 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059320.D

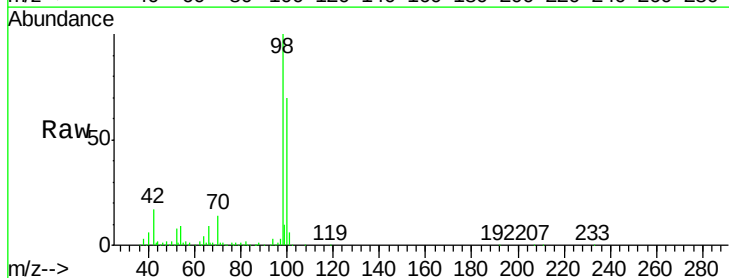
Acq: 26 Jun 2018 16:46

Tgt Ion: 98 Resp: 289929

Ion Ratio Lower Upper

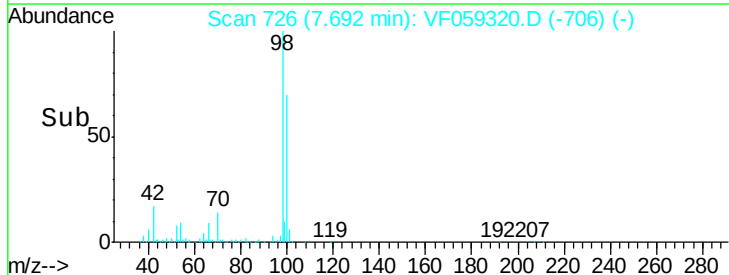
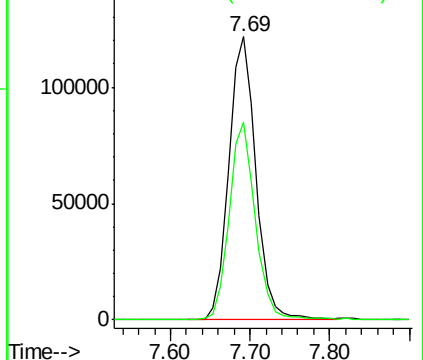
98 100

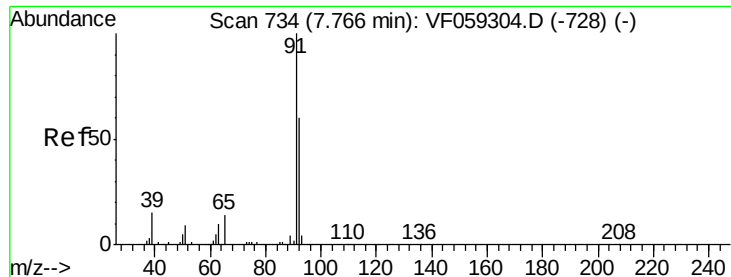
100 69.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.298 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

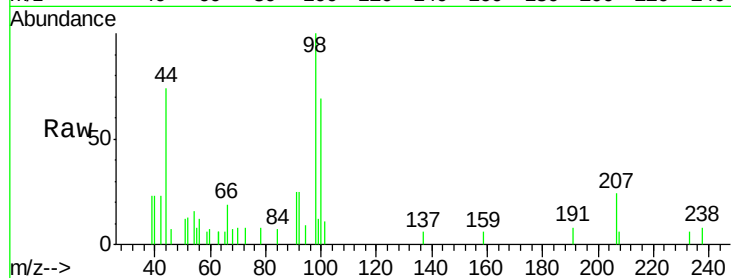
WP021SB476-27-29-180619RE

Tot Ion: 63 Resp: 269

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

250

200

150

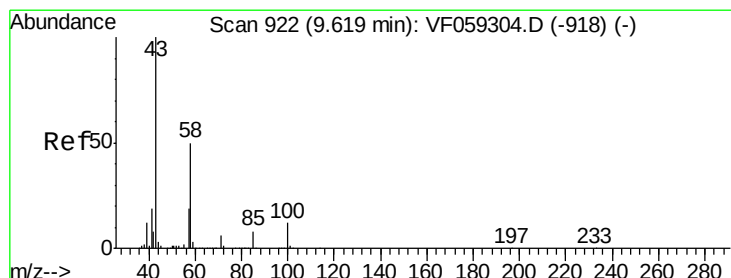
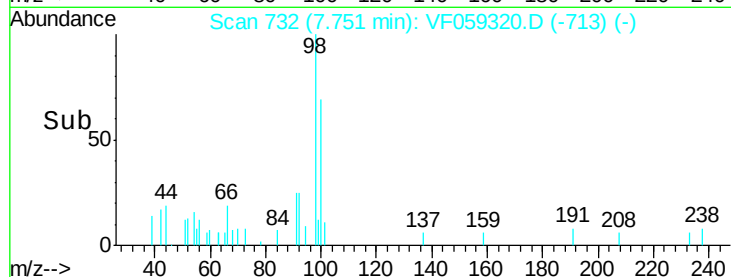
100

50

0

7.72 7.74 7.76 7.78

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.00 min

Lab File: VF059320.D

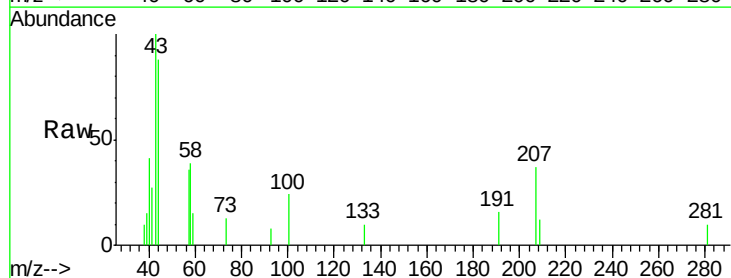
Acq: 26 Jun 2018 16:46

Tgt Ion: 43 Resp: 3077

Ion Ratio Lower Upper

43 100

58 39.4 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

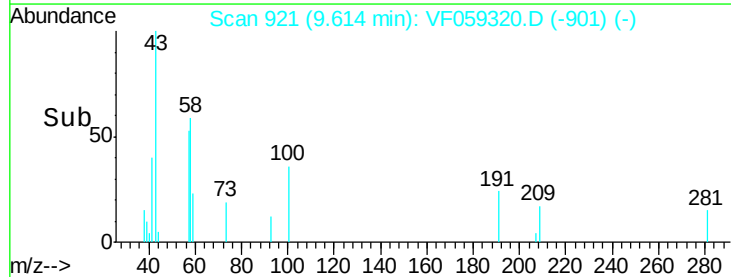
1000

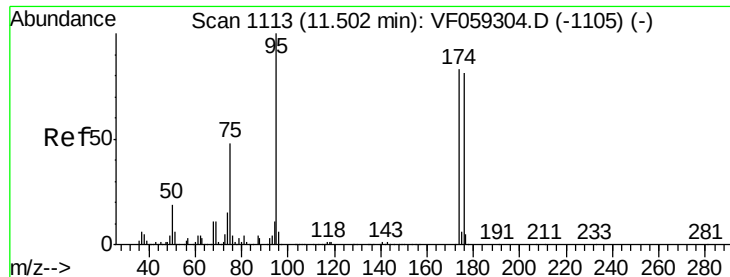
500

0

9.55 9.60 9.65 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 40.842 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

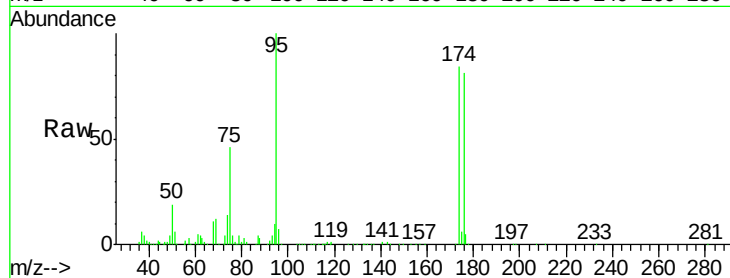
Tot Ion: 95 Resp: 165268

Ion Ratio Lower Upper

95 100

174 84.4 0.0 165.2

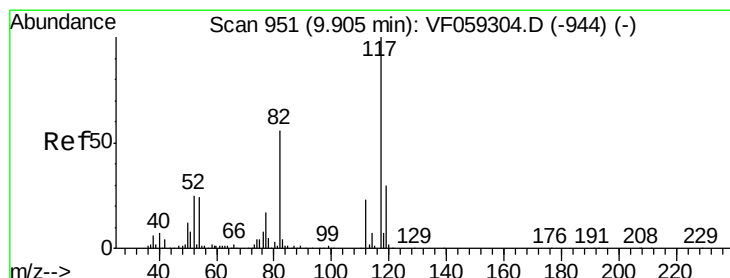
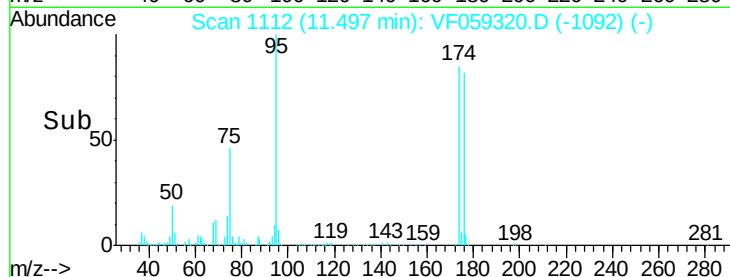
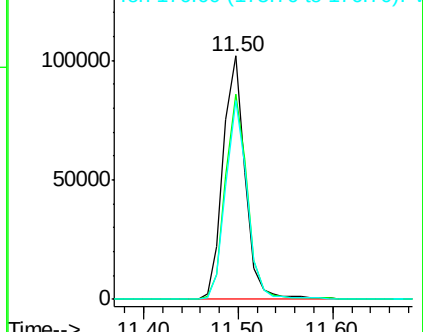
176 81.4 0.0 161.0



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: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

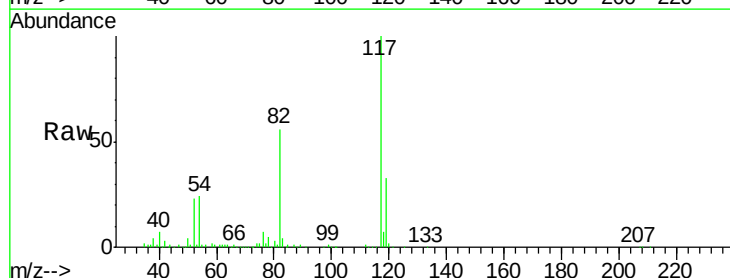
Tgt Ion: 117 Resp: 390824

Ion Ratio Lower Upper

117 100

82 56.4 44.6 66.8

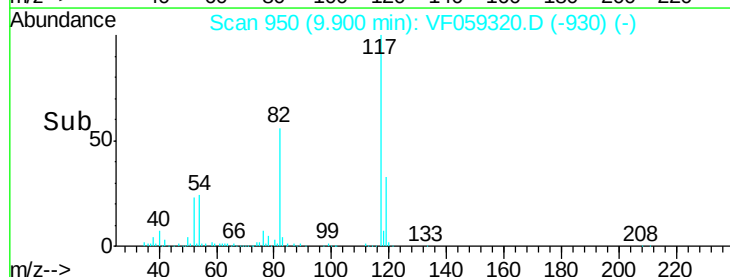
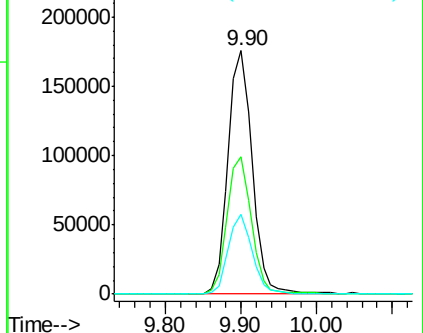
119 32.9 24.1 36.1

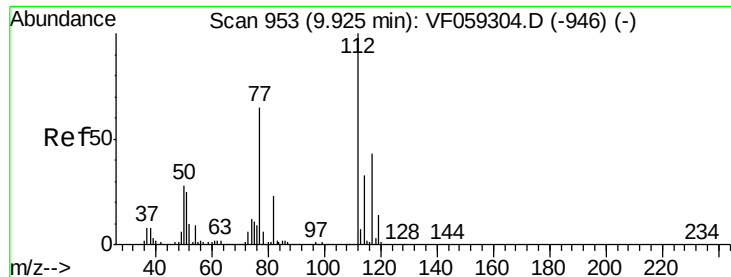


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#65

Chlorobenzene

Concen: 1.416 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

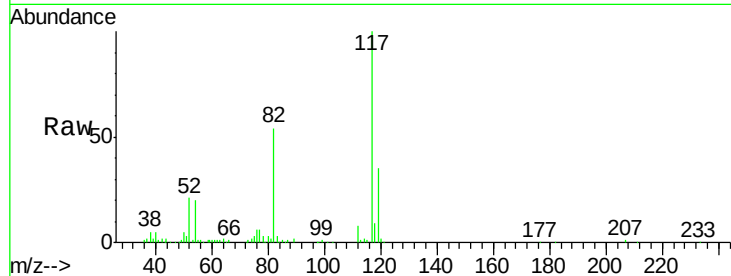
WP021SB476-27-29-180619RE

Tot Ion:112 Resp: 10258

Ion Ratio Lower Upper

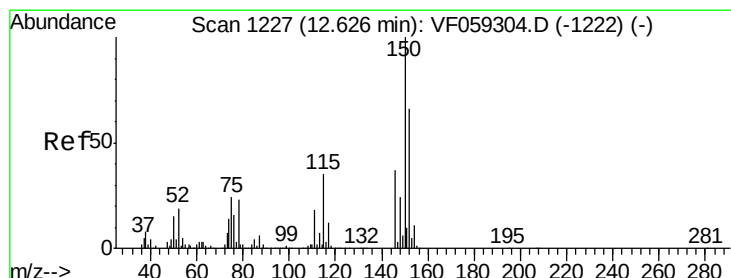
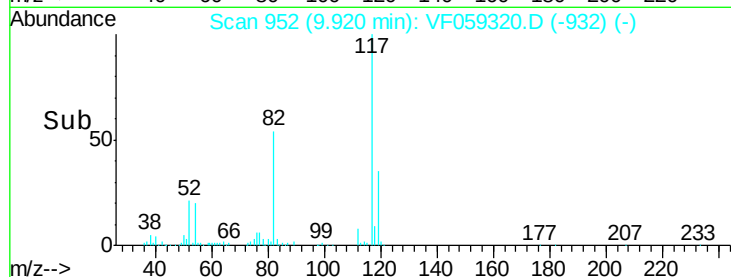
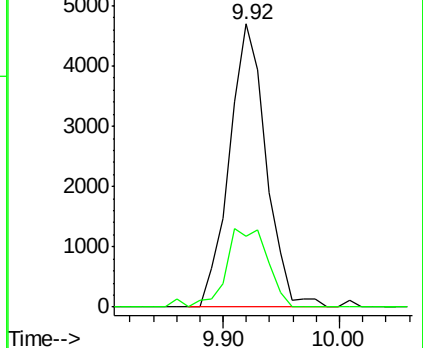
112 100

114 25.1 26.5 39.7#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

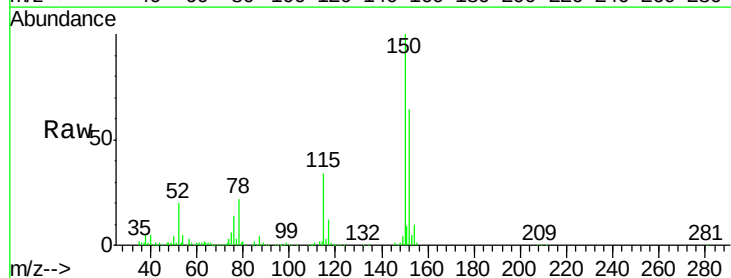
Tgt Ion:152 Resp: 249724

Ion Ratio Lower Upper

152 100

115 53.6 27.1 81.3

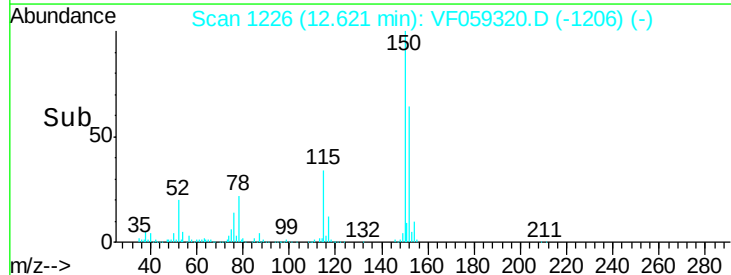
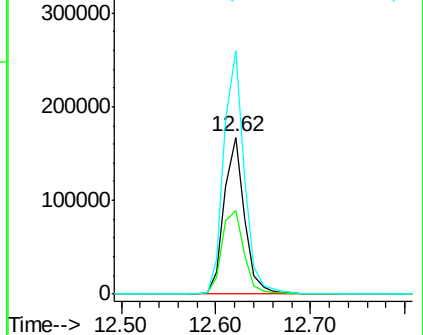
150 155.5 0.0 305.2

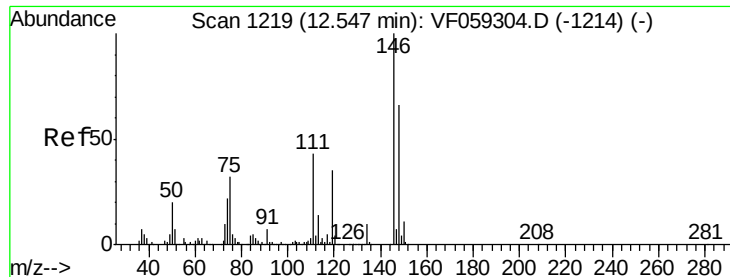


Abundance Ion 152.00 (151.70 to 152.70): V

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: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

Instrument :

MSVOA_F

ClientSampleId :

WP021SB476-27-29-180619RE

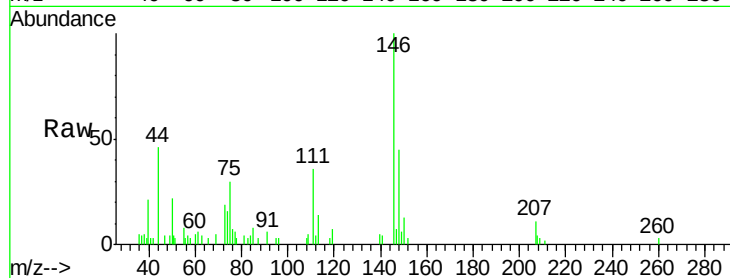
Tot Ion:146 Resp: 5354

Ion Ratio Lower Upper

146 100

111 36.4 21.4 64.2

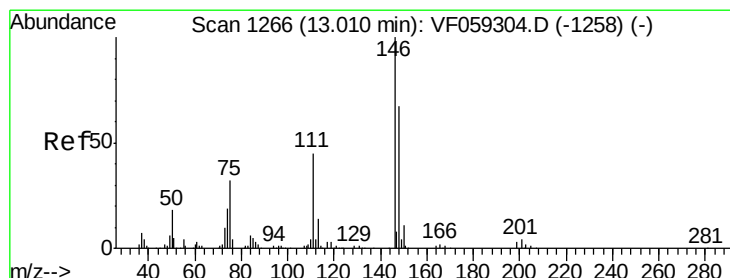
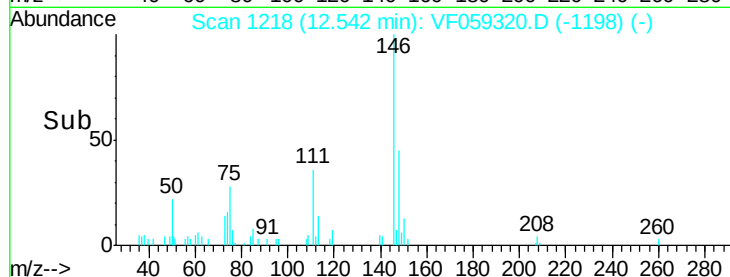
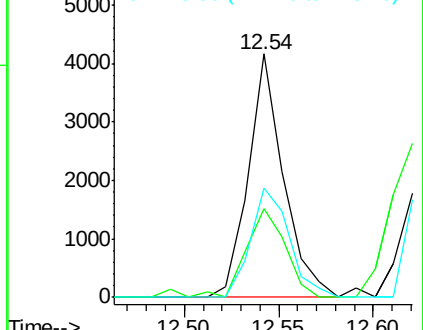
148 45.0 32.8 98.4



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



#91

1,2-Dichlorobenzene

Concen: 4.623 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF059320.D

Acq: 26 Jun 2018 16:46

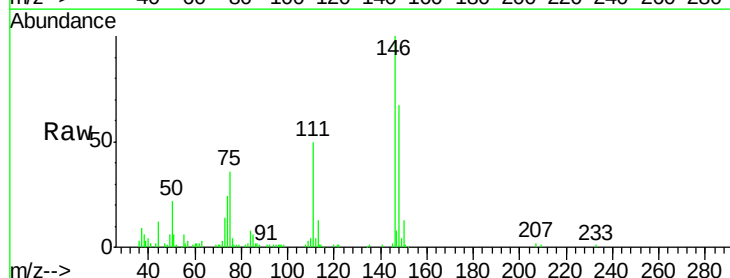
Tgt Ion:146 Resp: 33875

Ion Ratio Lower Upper

146 100

111 50.3 22.7 68.0

148 67.2 33.5 100.4



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

