

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059364.D
 Acq On : 28 Jun 2018 16:56
 Operator : VA/AP
 Sample : J3242-09
 Misc : 5.99g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-E

Quant Time: Jun 29 03:11:22 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

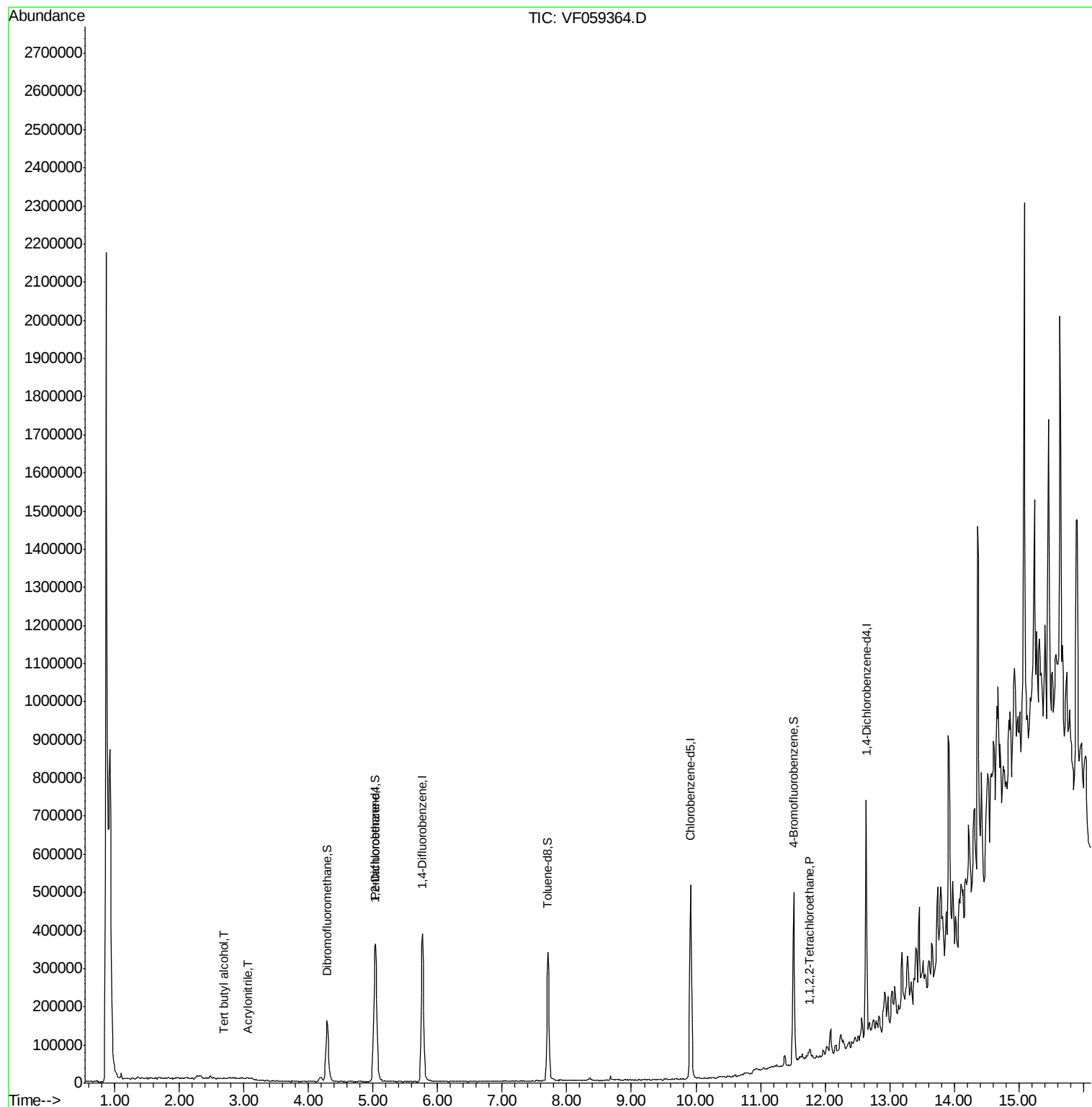
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	276980	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	426087	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	366499	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	176254	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	148391	41.47	ug/l	0.01
Spiked Amount 50.000			Recovery	=	82.94%	
35) Dibromofluoromethane	4.29	113	146900	47.18	ug/l	0.01
Spiked Amount 50.000			Recovery	=	94.36%	
50) Toluene-d8	7.71	98	280099	36.34	ug/l	0.01
Spiked Amount 50.000			Recovery	=	72.68%	
62) 4-Bromofluorobenzene	11.51	95	163462	37.59	ug/l	0.01
Spiked Amount 50.000			Recovery	=	75.18%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.34	94	554	Below Cal	#	42
11) Tert butyl alcohol	2.68	59	1076	4.517 ug/l	#	32
13) Acrolein	2.18	56	318	Below Cal		97
15) Acrylonitrile	3.06	53	470	1.120 ug/l	#	31
16) Acetone	2.40	43	240	Below Cal		95
20) Methylene Chloride	2.27	84	2391	Below Cal	#	80
25) 2-Butanone	4.51	43	868	Below Cal	#	59
28) Bromochloromethane	4.02	49	206	Below Cal	#	6
29) Tetrahydrofuran	4.22	42	521	Below Cal	#	36
37) Ethyl Acetate	4.31	43	699	Below Cal	#	26
49) 1,4-Dioxane	7.16	88	202	Below Cal	#	20
59) 2-Hexanone	9.63	43	1251	Below Cal		77
75) 1,1,2,2-Tetrachloroethane	11.77	83	6163	2.377 ug/l	#	40
87) 1,3-Dichlorobenzene	12.56	146	368	Below Cal	#	1

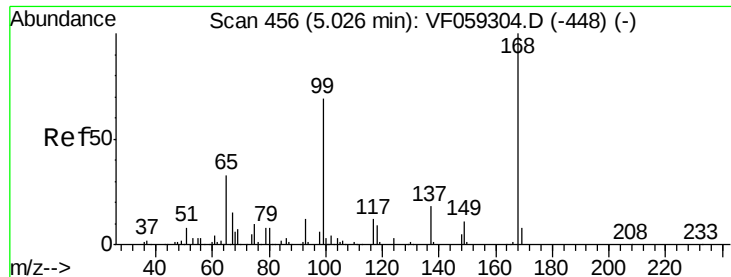
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062818\
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ClientSampleId :
JC-02-062618-E

Quant Time: Jun 28 17:20:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

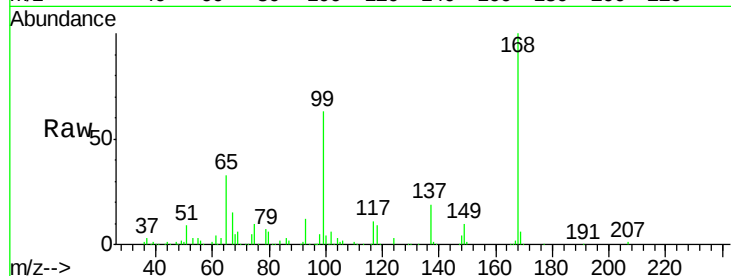
JC-02-062618-E

Tot Ion:168 Resp: 276980

Ion Ratio Lower Upper

168 100

99 63.0 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

100000

80000

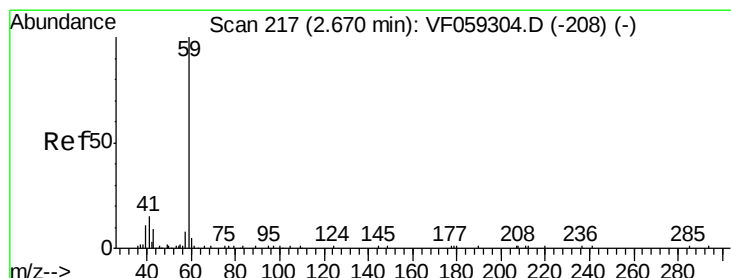
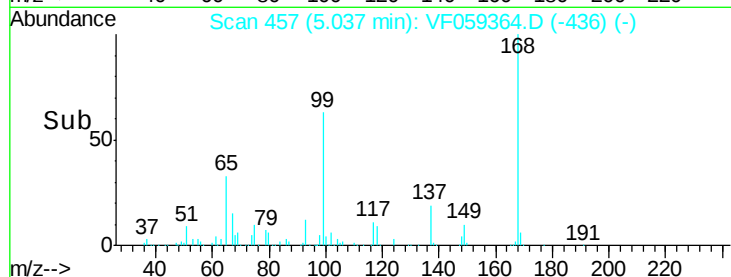
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.517 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059364.D

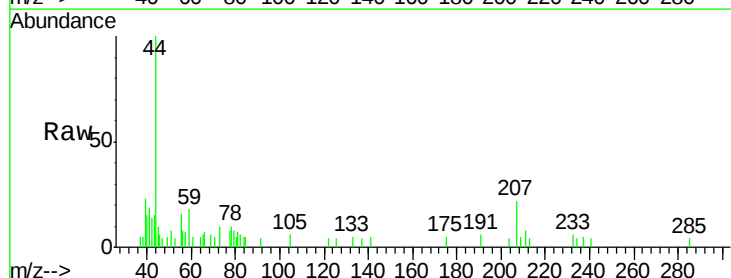
Acq: 28 Jun 2018 16:56

Tgt Ion: 59 Resp: 1076

Ion Ratio Lower Upper

59 100

57 41.1 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

500

400

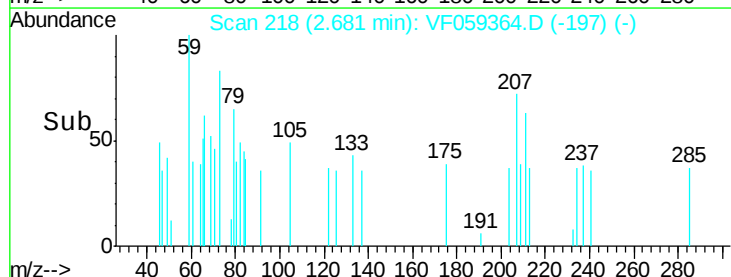
300

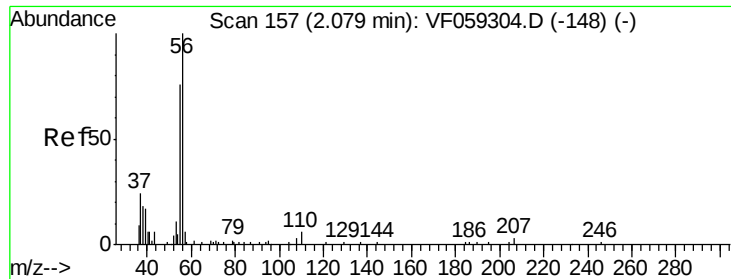
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.18 min Scan# 167

Delta R.T. 0.10 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

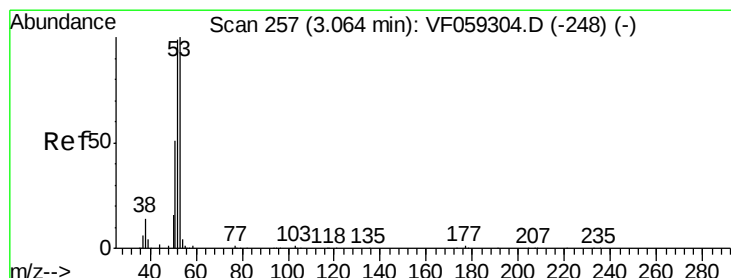
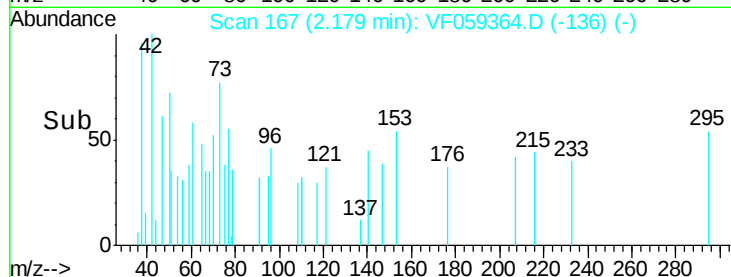
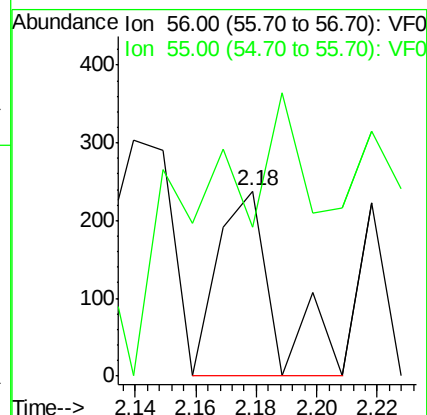
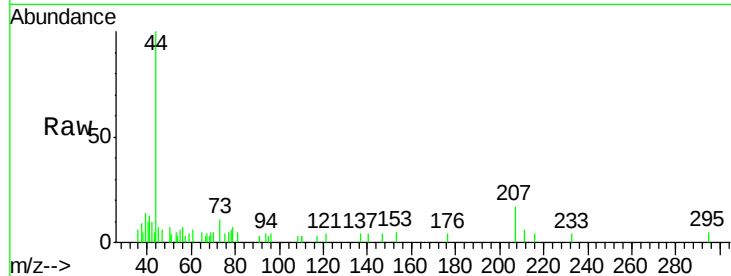
JC-02-062618-E

Tot Ion: 56 Resp: 318

Ion Ratio Lower Upper

56 100

55 80.7 62.4 93.6



#15

Acrylonitrile

Concen: 1.120 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

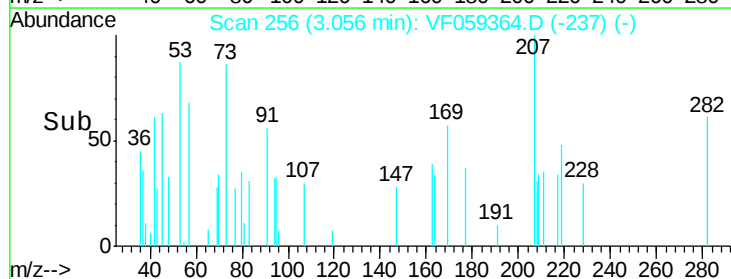
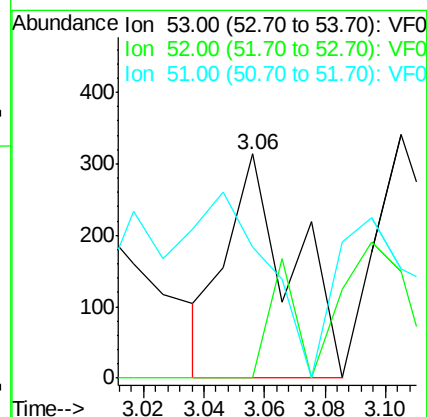
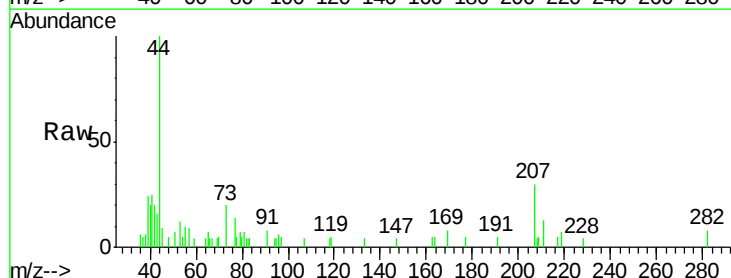
Tgt Ion: 53 Resp: 470

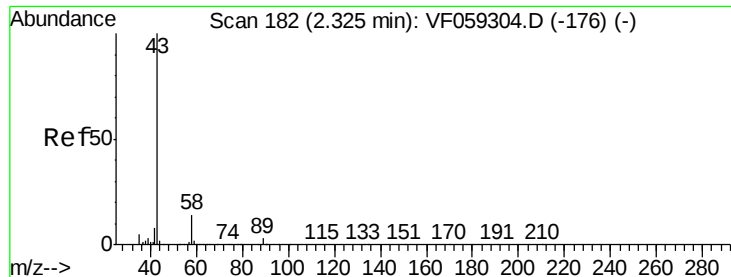
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 58.3 40.9 61.3





#16

Acetone

Concen: Below Cal

RT: 2.40 min Scan# 189

Delta R.T. 0.07 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

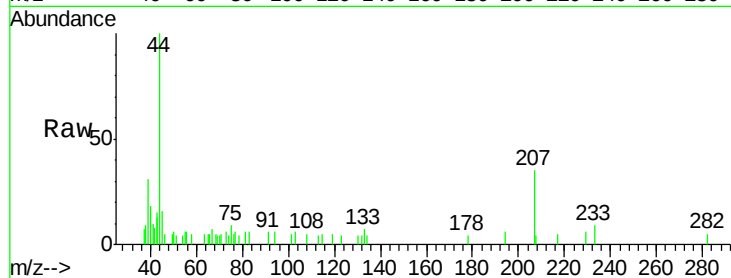
JC-02-062618-E

Tot Ion: 43 Resp: 240

Ion Ratio Lower Upper

43 100

58 16.2 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.40

800

600

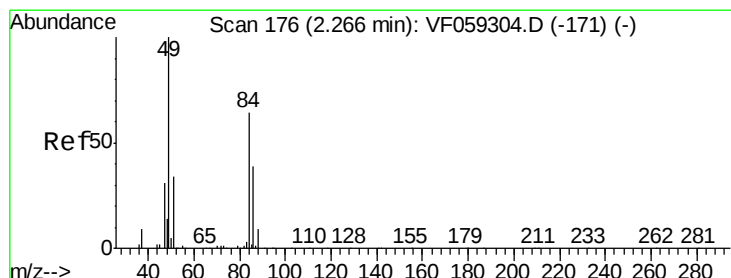
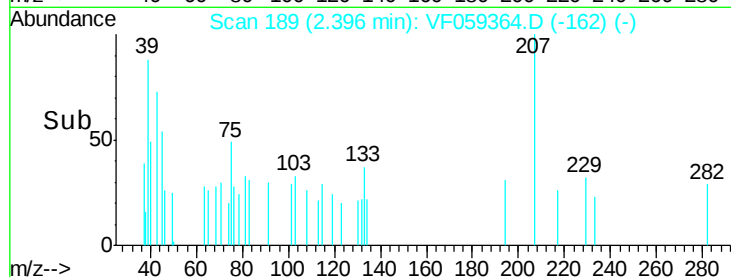
400

200

0

2.38 2.39 2.40 2.41

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Tgt Ion: 84 Resp: 2391

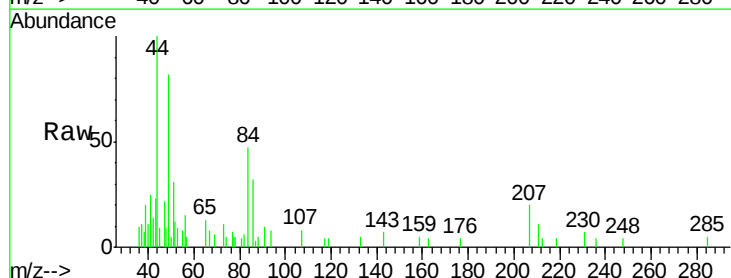
Ion Ratio Lower Upper

84 100

49 174.9 126.5 189.7

51 92.3 42.9 64.3#

86 67.4 48.6 73.0



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

4000

3000

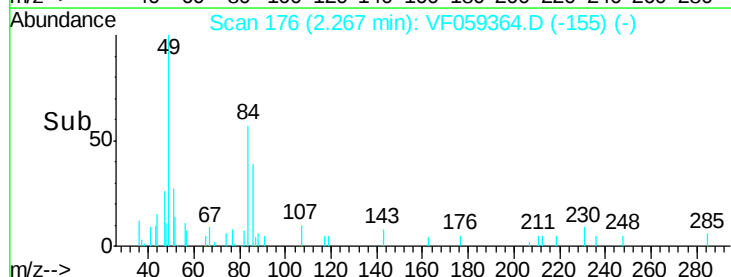
2000

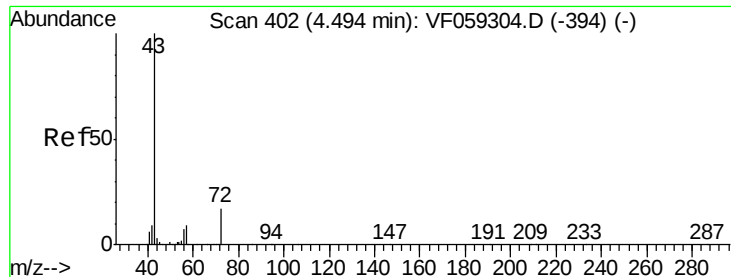
1000

0

2.20 2.25 2.30

Time-->





#25

2-Butanone

Concen: Below Cal

RT: 4.51 min Scan# 404

Delta R.T. 0.02 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

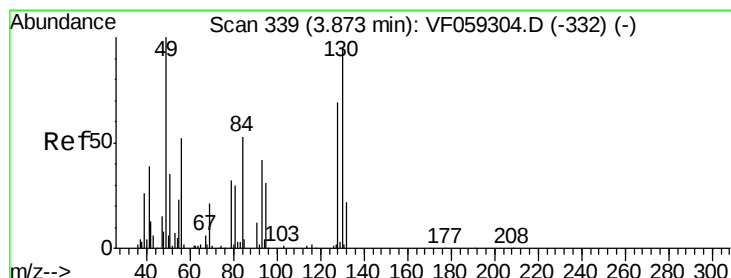
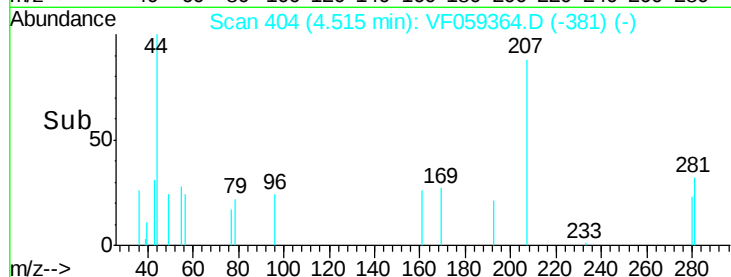
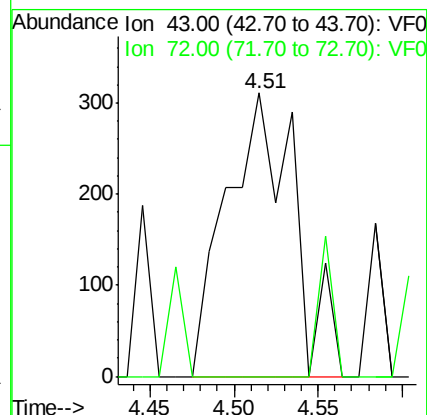
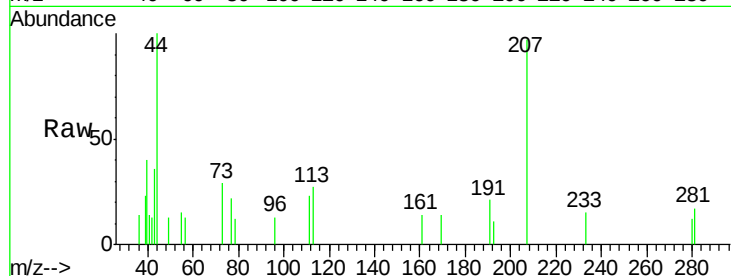
JC-02-062618-E

Tot Ion: 43 Resp: 868

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 4.02 min Scan# 354

Delta R.T. 0.15 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

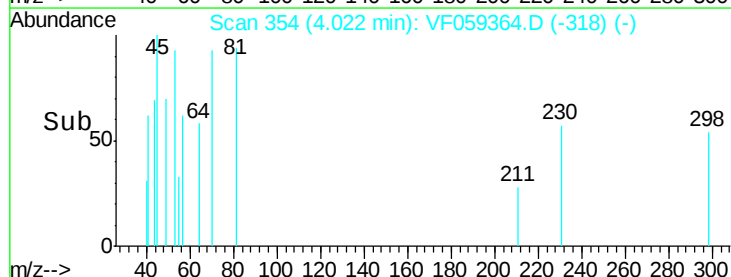
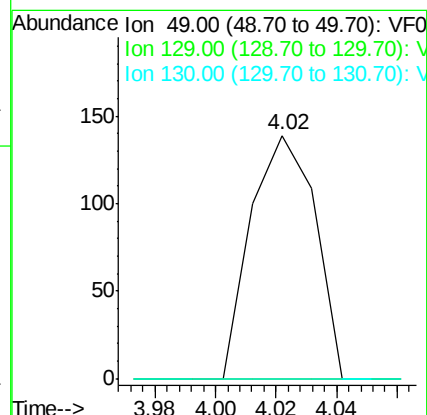
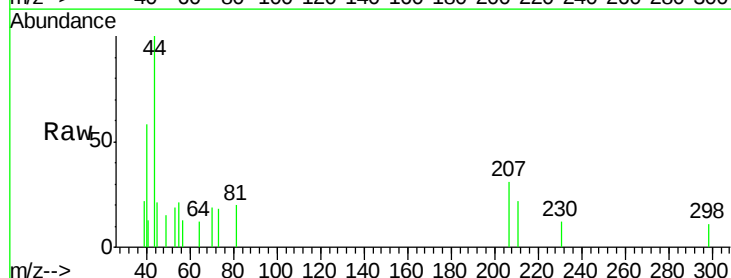
Tgt Ion: 49 Resp: 206

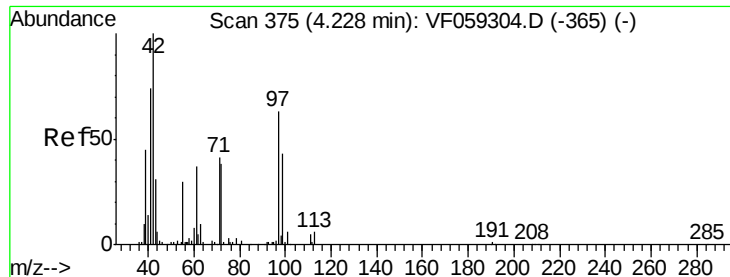
Ion Ratio Lower Upper

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. -0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-E

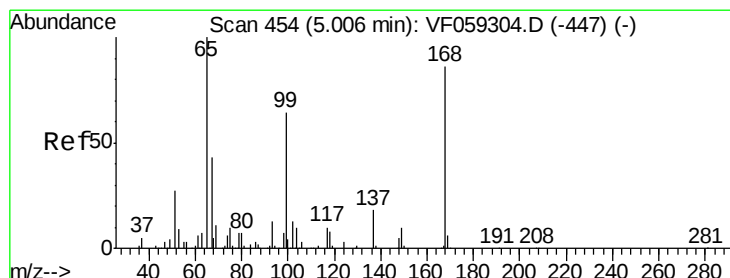
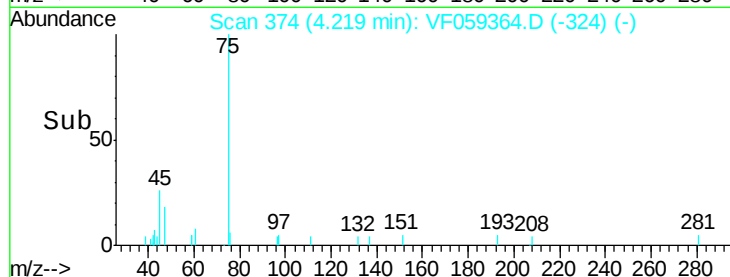
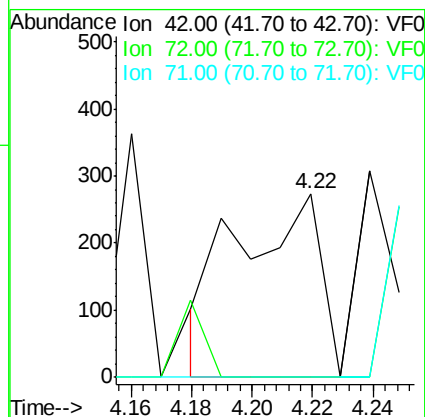
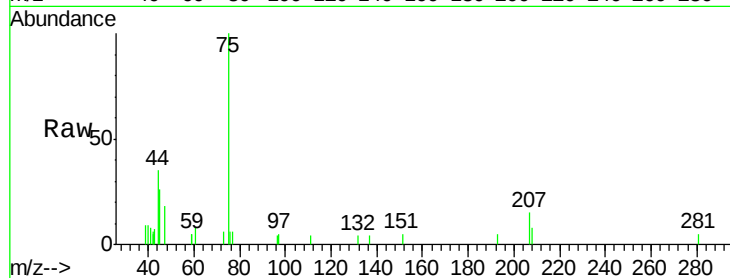
Tot Ion: 42 Resp: 521

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

71 0.0 32.5 48.7#



#33

1,2-Dichloroethane-d4

Concen: 41.467 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059364.D

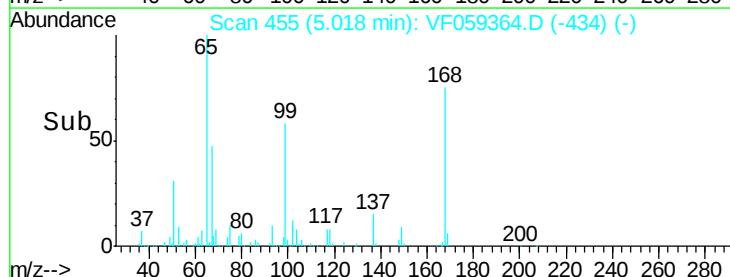
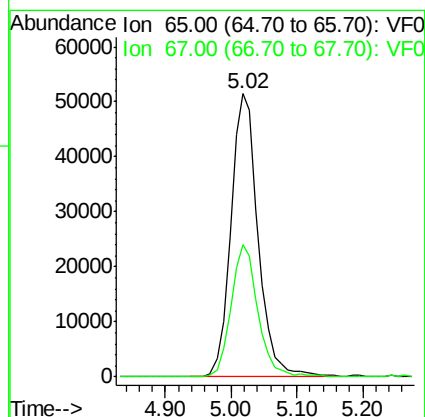
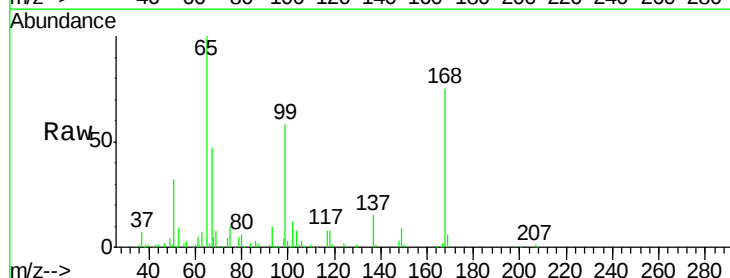
Acq: 28 Jun 2018 16:56

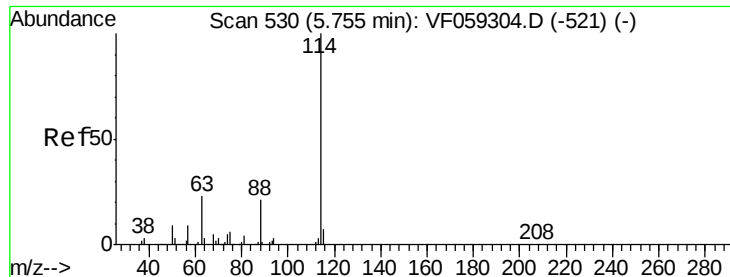
Tgt Ion: 65 Resp: 148391

Ion Ratio Lower Upper

65 100

67 46.6 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-E

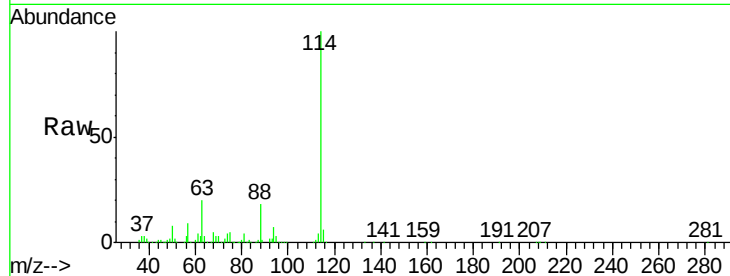
Tot Ion:114 Resp: 426087

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.8

88 18.2 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

200000

150000

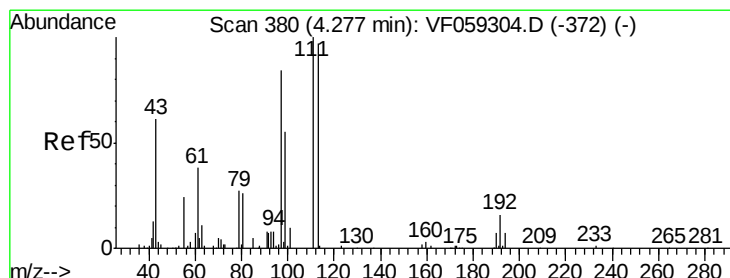
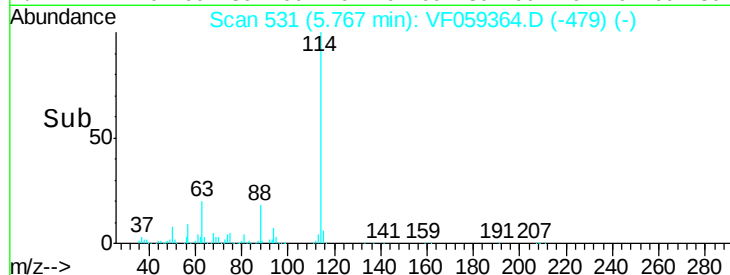
100000

50000

0

5.60 5.70 5.80 5.90 6.00

Time-->



#35

Dibromofluoromethane

Concen: 47.185 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

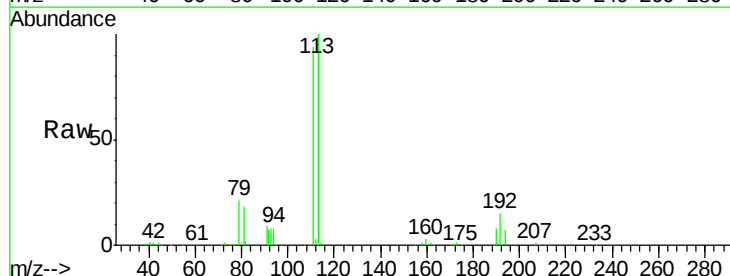
Tgt Ion:113 Resp: 146900

Ion Ratio Lower Upper

113 100

111 93.8 82.1 123.1

192 15.4 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

60000

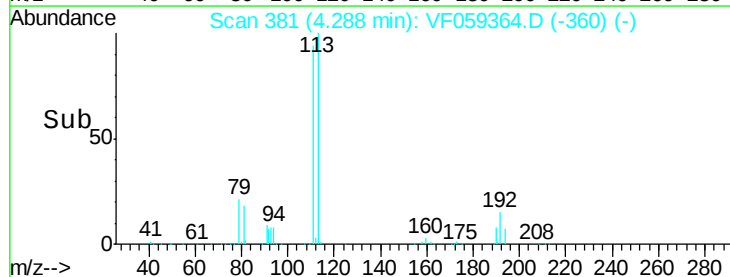
40000

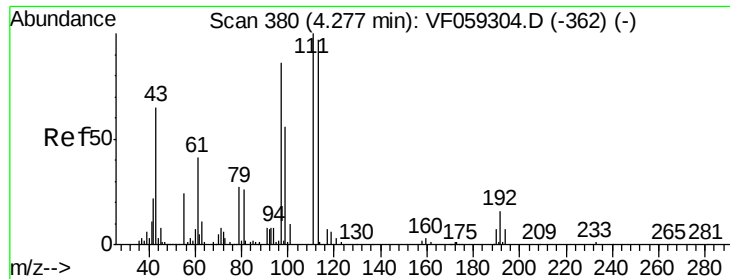
20000

0

4.10 4.20 4.30 4.40 4.50

Time-->

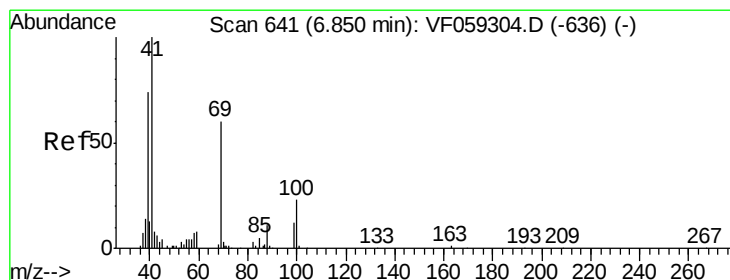
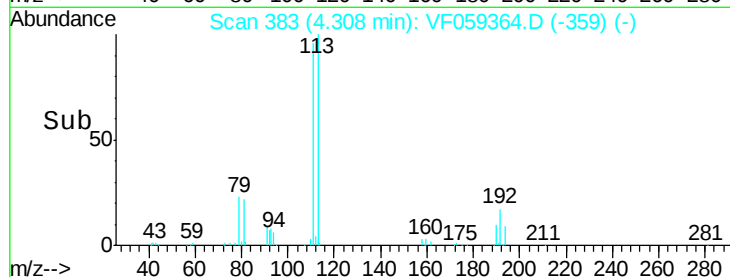
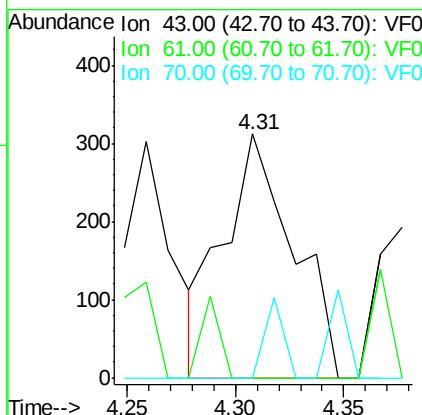
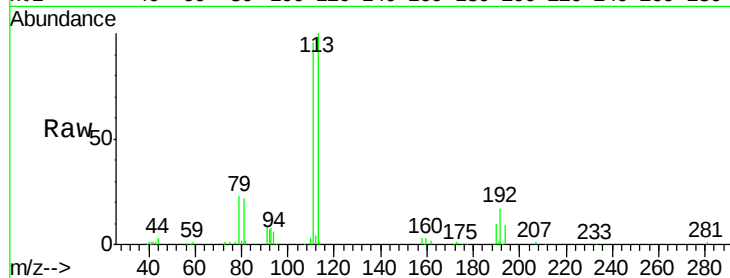




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 383
Delta R.T. 0.03 min
Lab File: VF059364.D
Acq: 28 Jun 2018 16:56

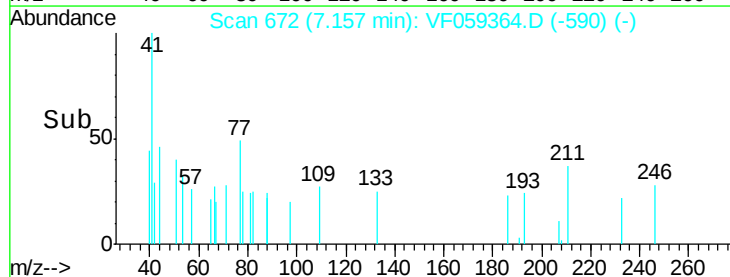
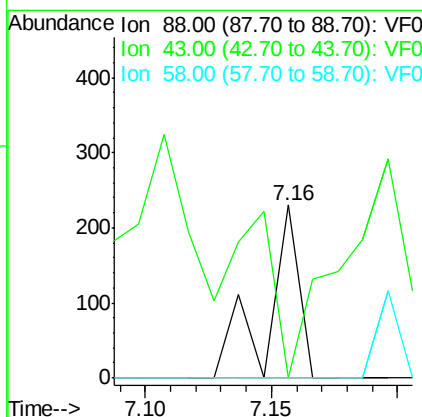
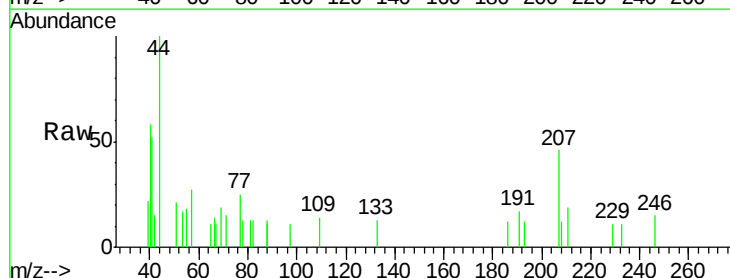
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-E

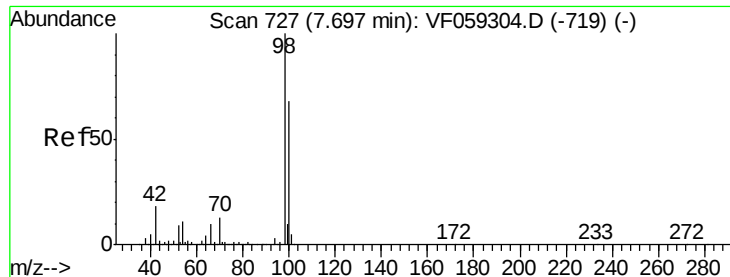
Tot Ion: 43 Resp: 699
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.16 min Scan# 672
Delta R.T. 0.31 min
Lab File: VF059364.D
Acq: 28 Jun 2018 16:56

Tgt Ion: 88 Resp: 202
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 36.338 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

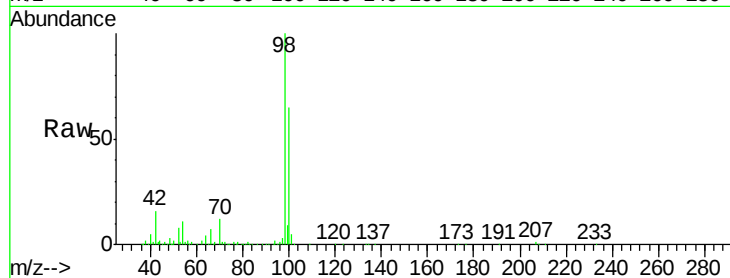
JC-02-062618-E

Tot Ion: 98 Resp: 280099

Ion Ratio Lower Upper

98 100

100 65.2 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

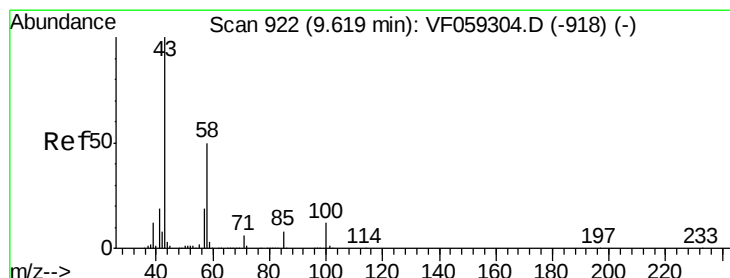
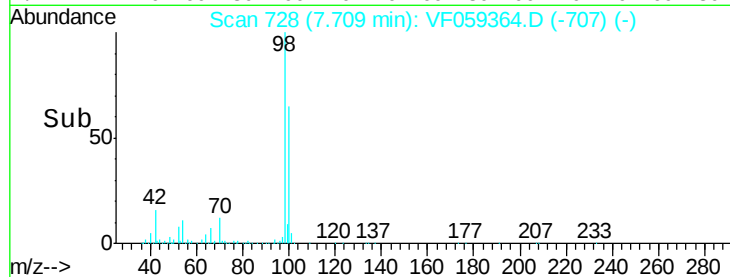
100000

50000

0

Time-->

7.60 7.70 7.80 7.90



#59

2-Hexanone

Concen: Below Cal

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF059364.D

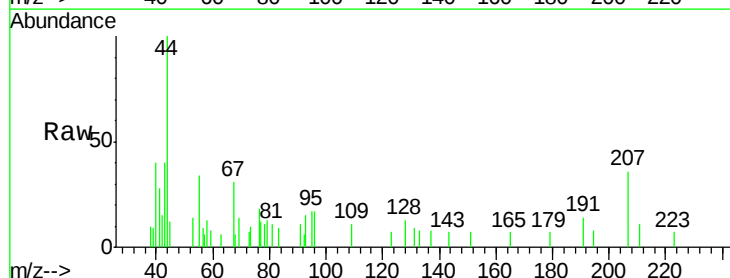
Acq: 28 Jun 2018 16:56

Tgt Ion: 43 Resp: 1251

Ion Ratio Lower Upper

43 100

58 31.5 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

600

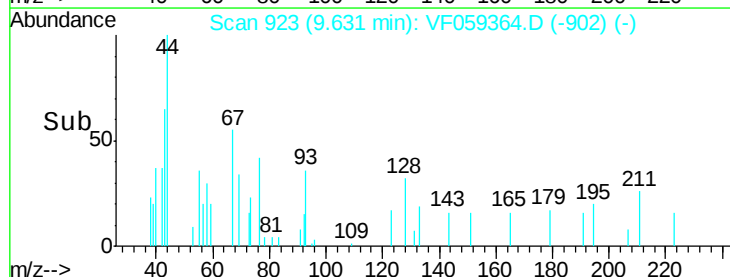
400

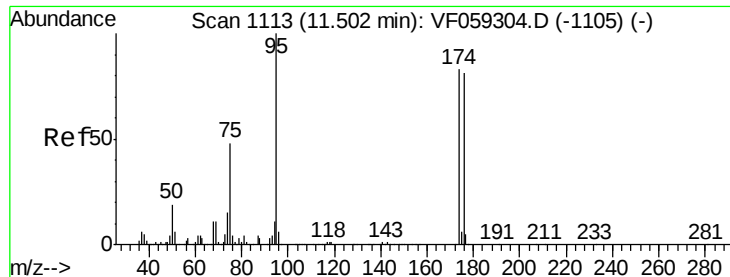
200

0

Time-->

9.60 9.65





#62

4-Bromofluorobenzene

Concen: 37.594 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-E

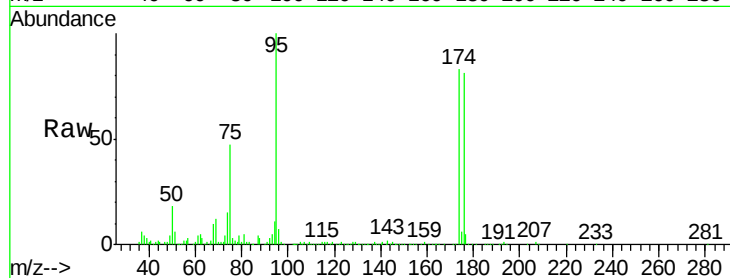
Tot Ion: 95 Resp: 163462

Ion Ratio Lower Upper

95 100

174 83.4 0.0 165.2

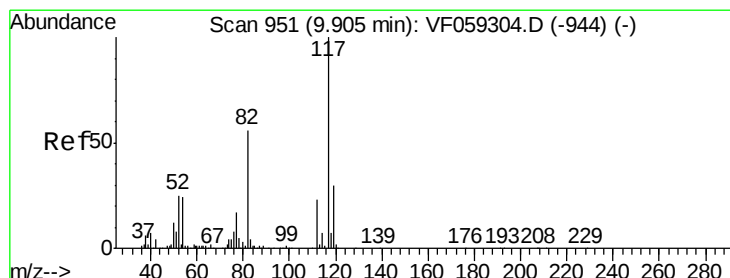
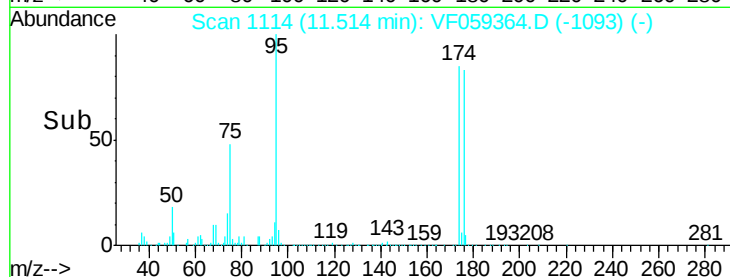
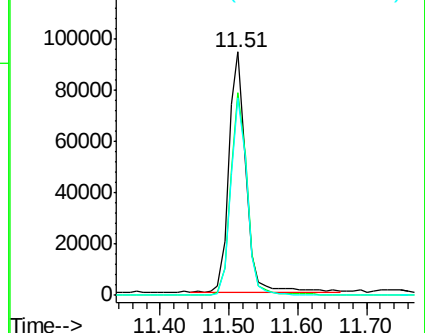
176 81.2 0.0 161.0



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: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

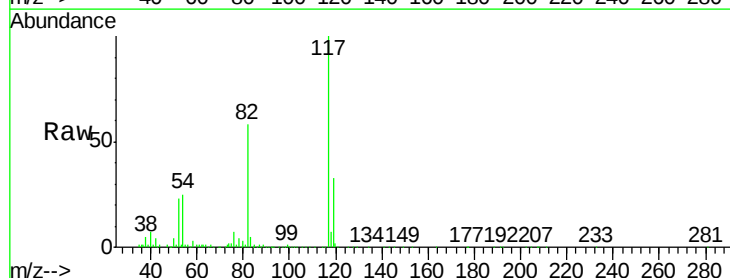
Tgt Ion: 117 Resp: 366499

Ion Ratio Lower Upper

117 100

82 58.0 44.6 66.8

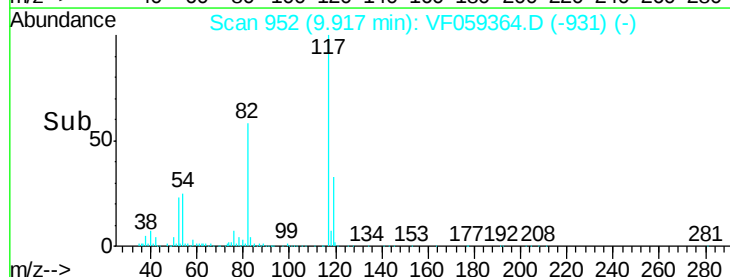
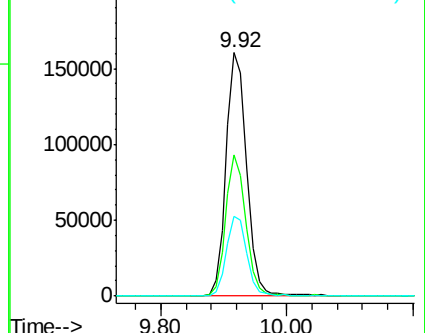
119 32.6 24.1 36.1

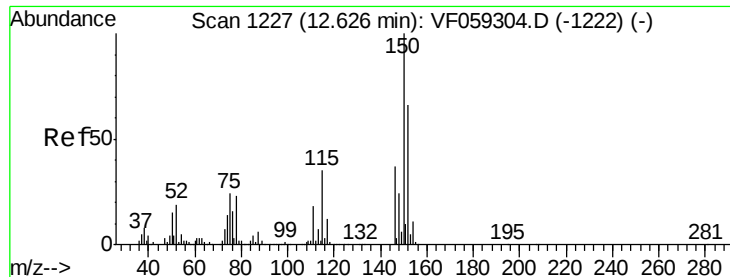


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-E

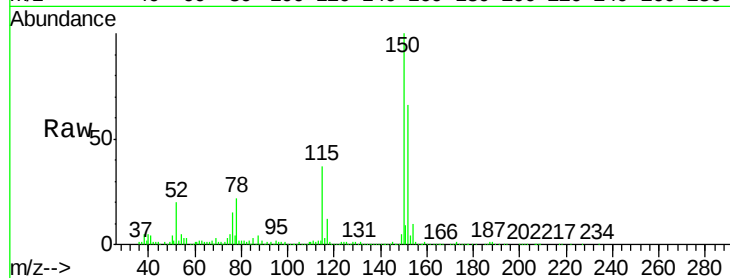
Tot Ion:152 Resp: 176254

Ion Ratio Lower Upper

152 100

115 56.3 27.1 81.3

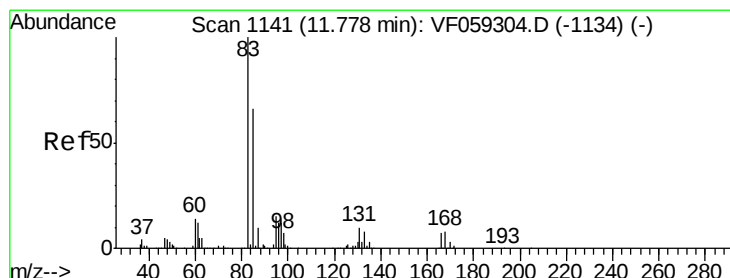
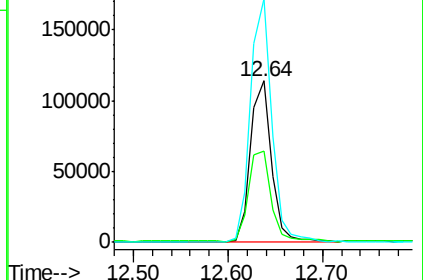
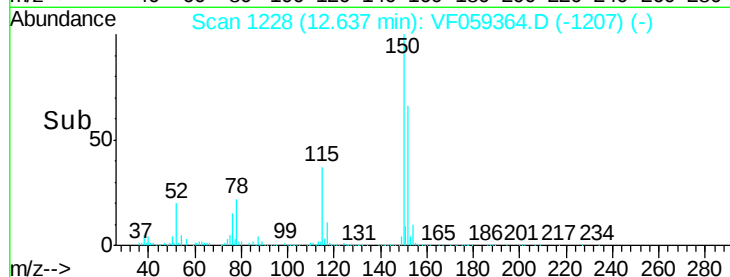
150 151.0 0.0 305.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.377 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF059364.D

Acq: 28 Jun 2018 16:56

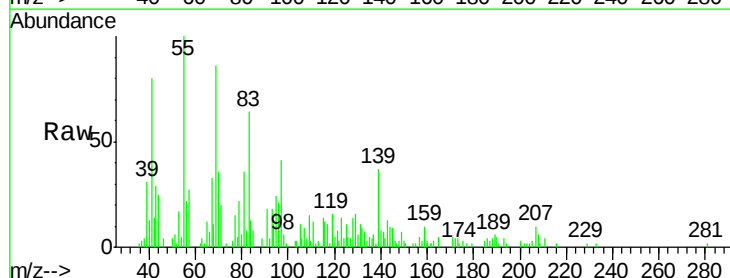
Tgt Ion: 83 Resp: 6163

Ion Ratio Lower Upper

83 100

131 16.5 4.9 14.6#

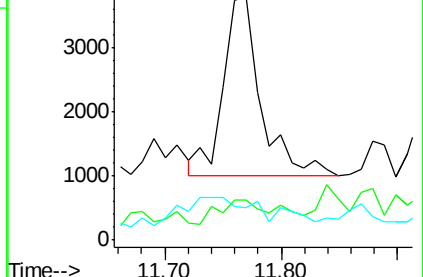
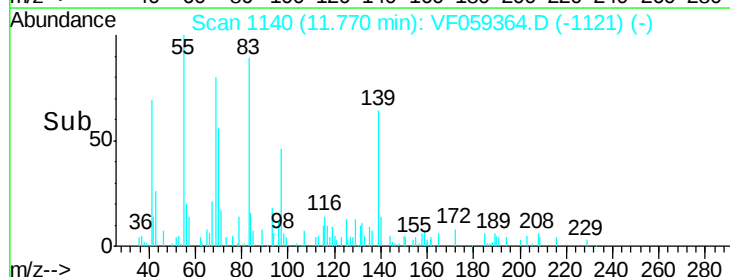
85 13.1 32.8 98.4#

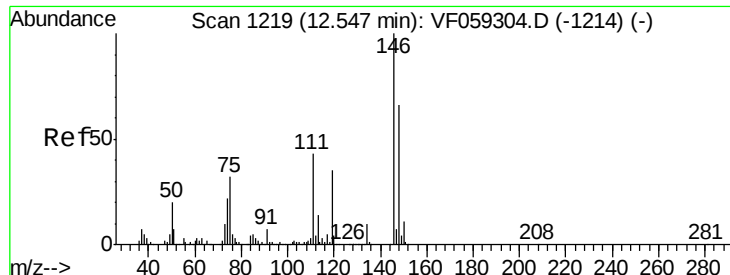


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VF059364.D
 Acq: 28 Jun 2018 16:56

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-E

Tot Ion:146 Resp: 368
 Ion Ratio Lower Upper
 146 100
 111 589.3 21.4 64.2#
 148 48.0 32.8 98.4

