

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060619\
 Data File : VF062886.D
 Acq On : 6 Jun 2019 16:55
 Operator : FY/SY
 Sample : K3158-01
 Misc : 6.26g/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-060619

Quant Time: Jun 07 01:26:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	771346	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	1325711	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	995656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	304414	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	218841	41.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.06%	
35) Dibromofluoromethane	4.33	113	431510	43.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.14%	
50) Toluene-d8	7.73	98	895226	35.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.68%	
62) 4-Bromofluorobenzene	11.50	95	298007	32.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.40%	

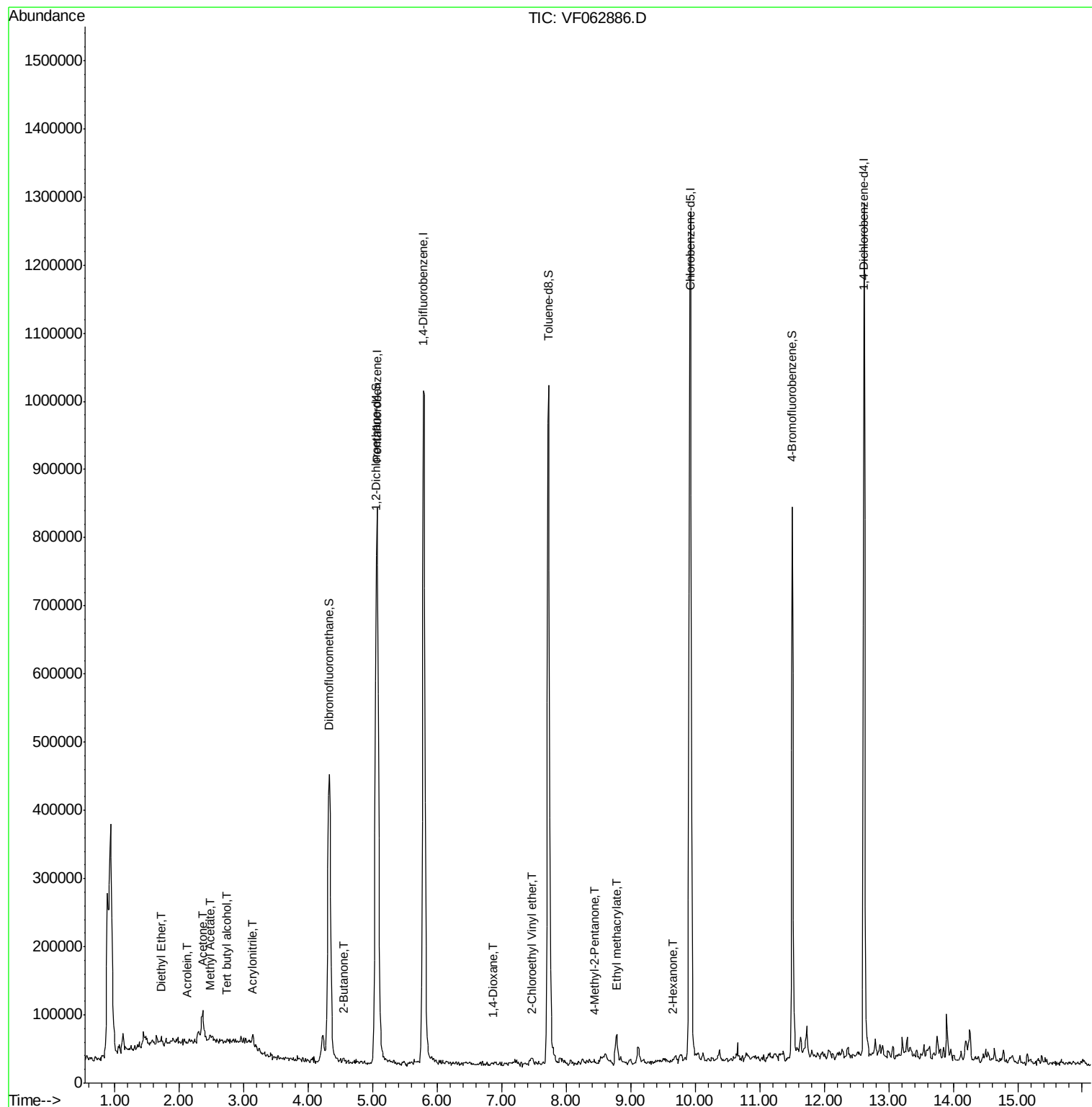
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	867	Below Cal		89
8) Diethyl Ether	1.72	74	4074	1.844	ug/l	53
11) Tert butyl alcohol	2.73	59	991	3.067	ug/l #	1
13) Acrolein	2.11	56	1205	1.192	ug/l #	63
15) Acrylonitrile	3.12	53	1303	1.073	ug/l #	62
16) Acetone	2.37	43	54684	44.793	ug/l	98
18) Methyl Acetate	2.48	43	13508	6.332	ug/l #	80
20) Methylene Chloride	2.35	84	14554	Below Cal		88
25) 2-Butanone	4.55	43	6761	2.378	ug/l	97
49) 1,4-Dioxane	6.87	88	84	2.006	ug/l #	1
51) 4-Methyl-2-Pentanone	8.43	43	6990	1.589	ug/l #	85
56) Ethyl methacrylate	8.78	69	22601	3.685	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.45	63	2754	1.285	ug/l	94
59) 2-Hexanone	9.64	43	5935	1.892	ug/l	65

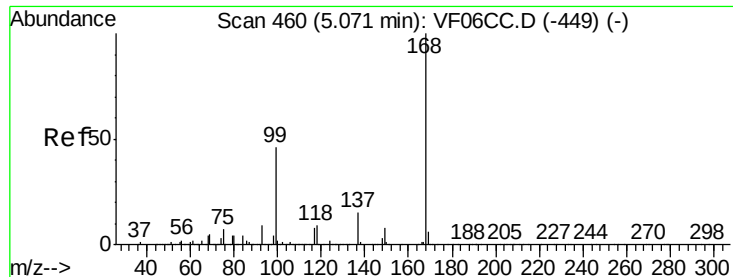
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF060619\
Data File : VF062886.D
Acq On : 6 Jun 2019 16:55
Operator : FY/SY
Sample : K3158-01
Misc : 6.26g/5mL/MSVOA F/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
OK-03-060619

Quant Time: Jun 07 01:26:07 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.00 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

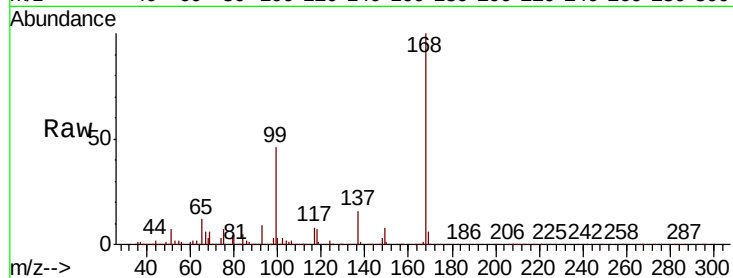
OK-03-060619

Tot Ion:168 Resp: 771346

Ion Ratio Lower Upper

168 100

99 45.6 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.08

250000

200000

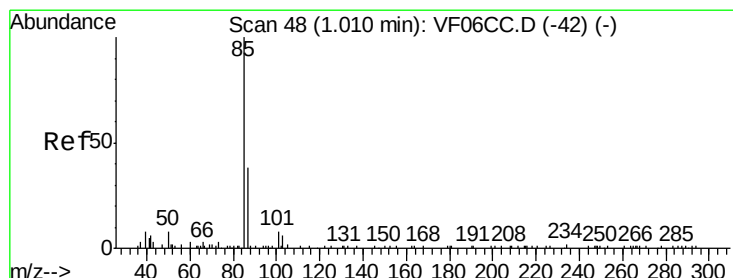
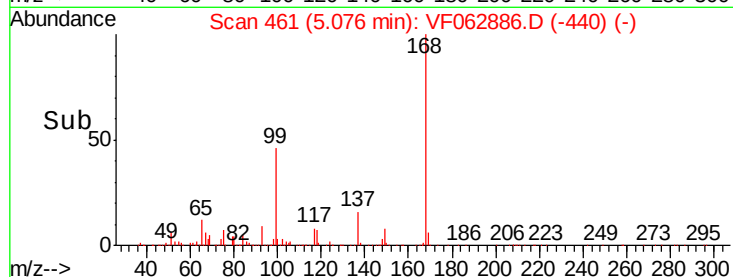
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.03 min Scan# 51

Delta R.T. 0.02 min

Lab File: VF062886.D

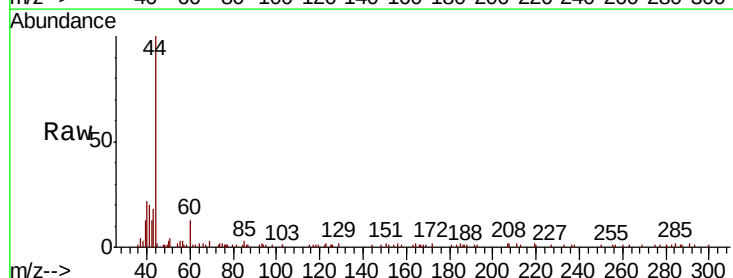
Acq: 6 Jun 2019 16:55

Tgt Ion: 85 Resp: 867

Ion Ratio Lower Upper

85 100

87 28.6 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.03

400

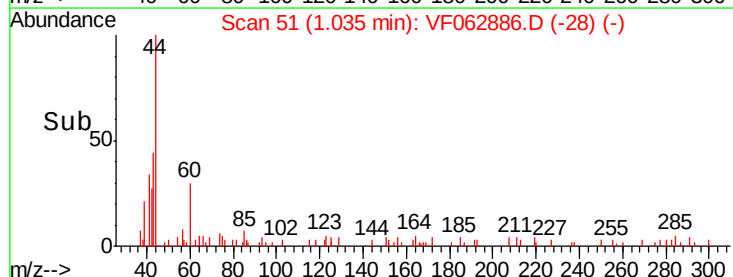
300

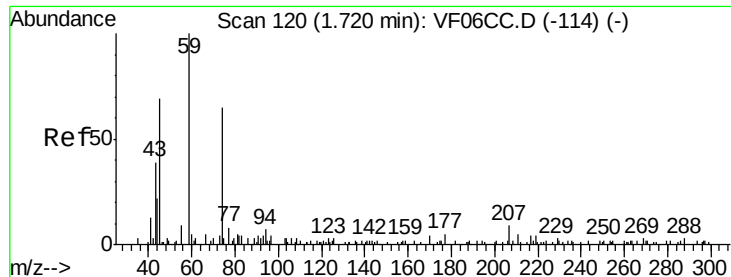
200

100

0

Time--> 1.00 1.05





#8

Diethyl Ether

Concen: 1.844 ug/l

RT: 1.72 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

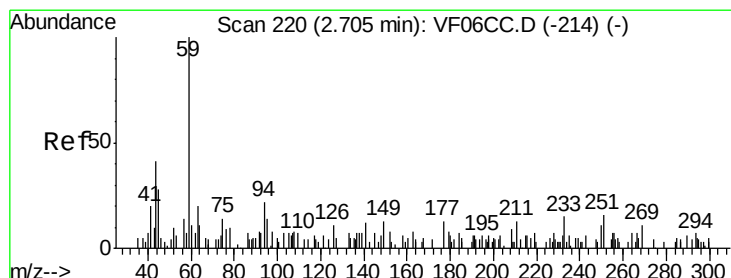
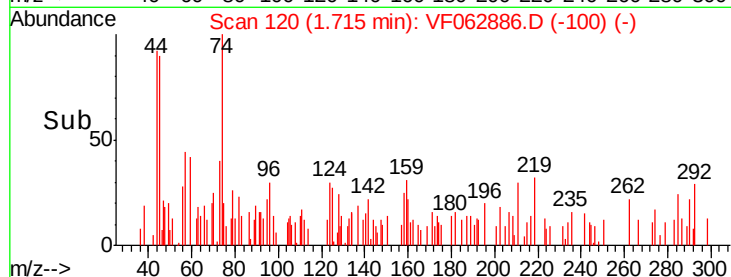
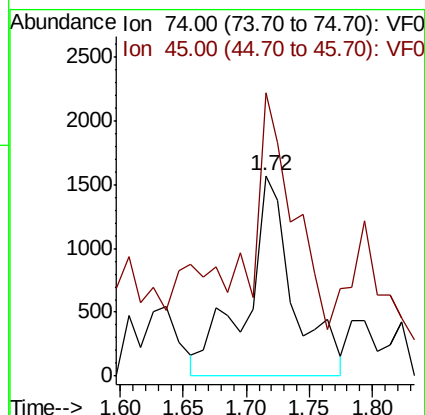
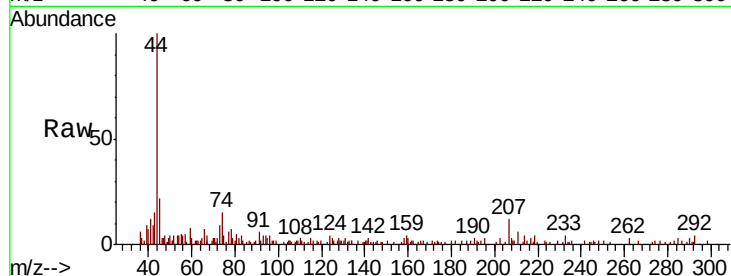
OK-03-060619

Tot Ion: 74 Resp: 4074

Ion Ratio Lower Upper

74 100

45 141.0 47.5 142.5



#11

Tert butyl alcohol

Concen: 3.067 ug/l

RT: 2.73 min Scan# 223

Delta R.T. 0.01 min

Lab File: VF062886.D

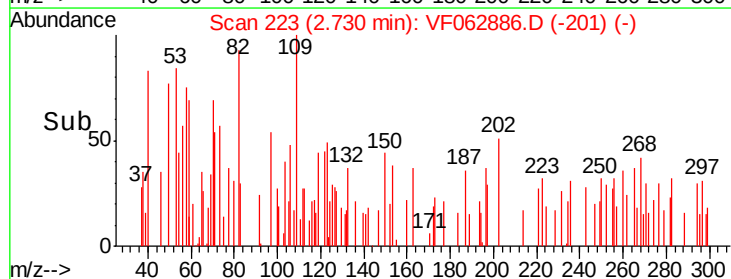
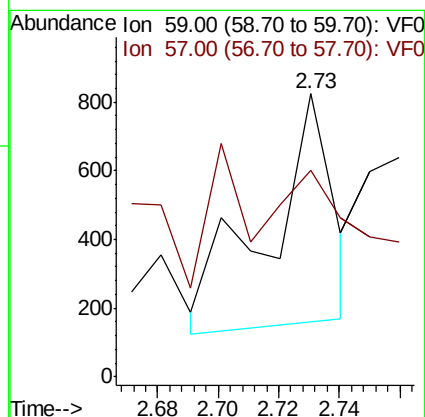
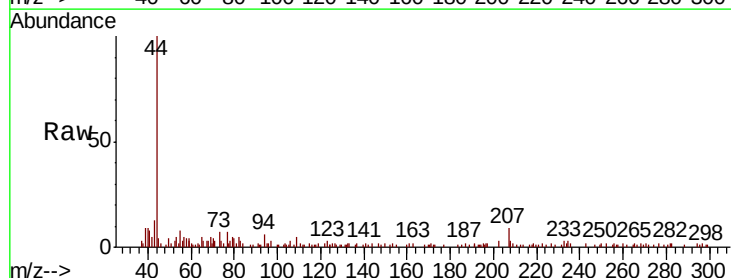
Acq: 6 Jun 2019 16:55

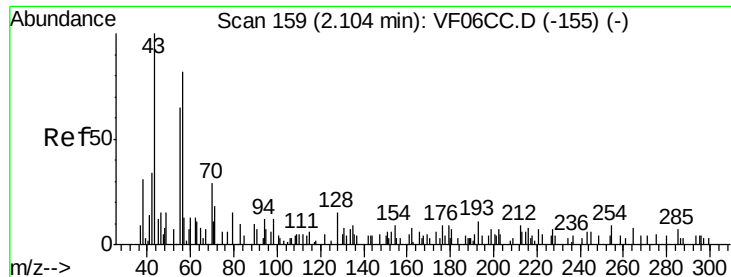
Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

59 100

57 73.2 9.2 13.8#





#13

Acrolein

Concen: 1.192 ug/l

RT: 2.11 min Scan# 160

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampled :

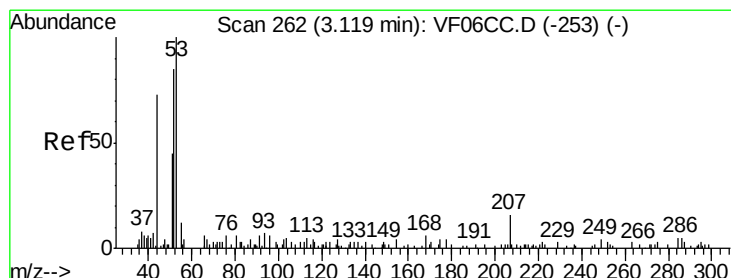
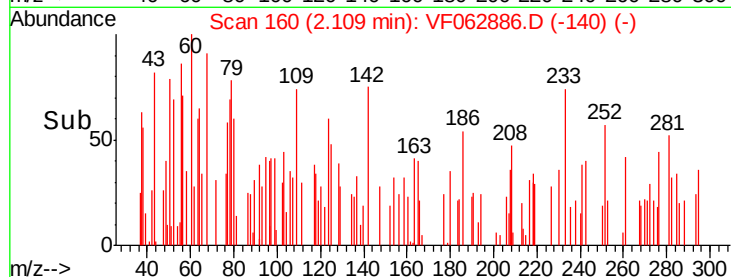
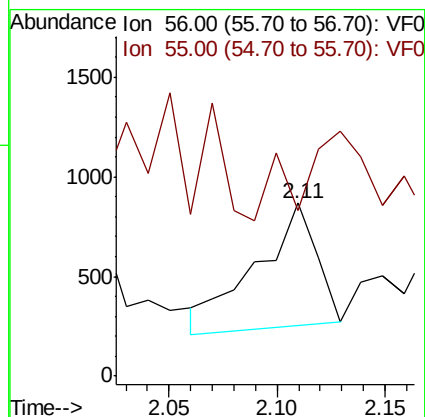
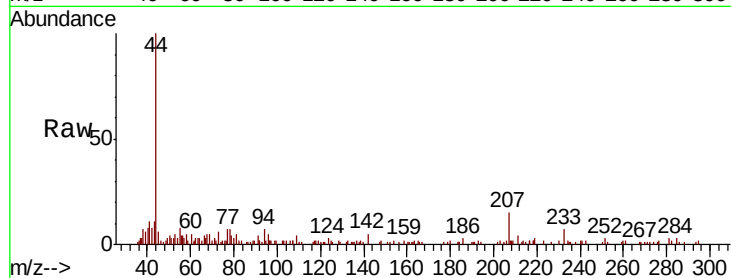
OK-03-060619

Tot Ion: 56 Resp: 1205

Ion Ratio Lower Upper

56 100

55 95.9 52.9 79.3#



#15

Acrylonitrile

Concen: 1.073 ug/l

RT: 3.12 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

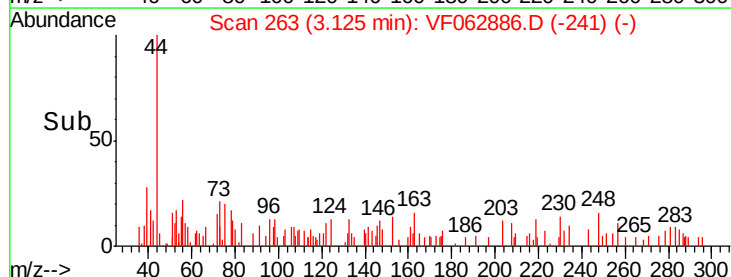
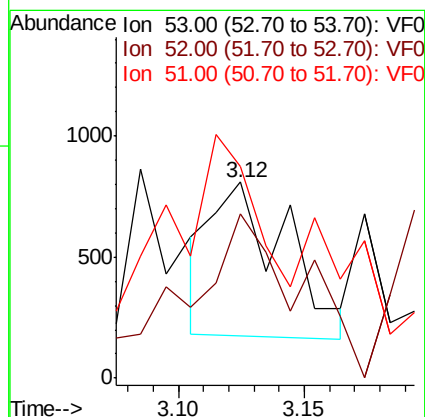
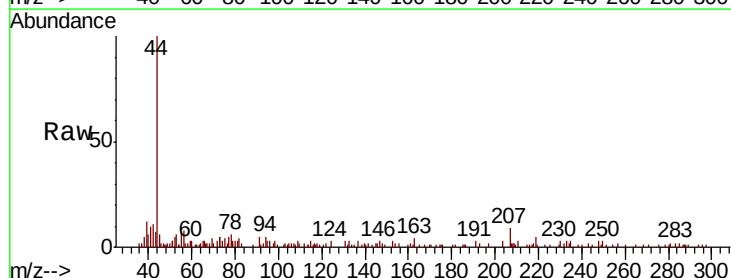
Tgt Ion: 53 Resp: 1303

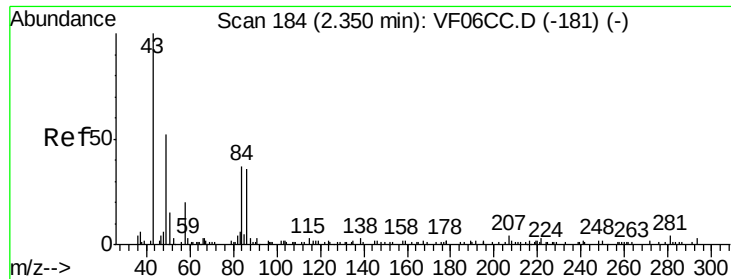
Ion Ratio Lower Upper

53 100

52 83.5 68.1 102.1

51 107.8 27.7 41.5#





#16

Acetone

Concen: 44.793 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.00 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

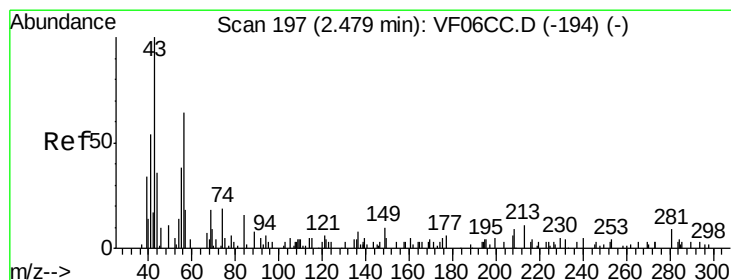
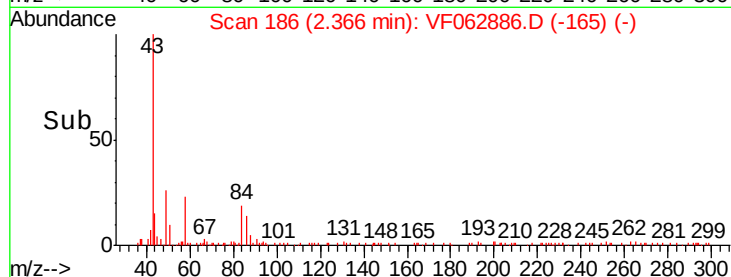
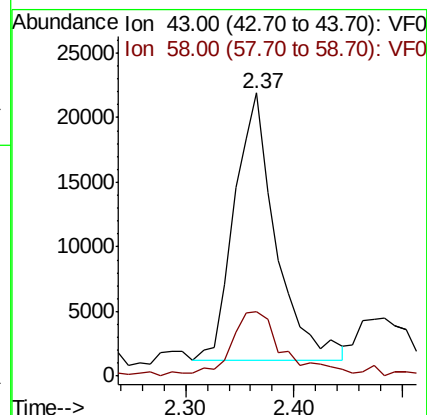
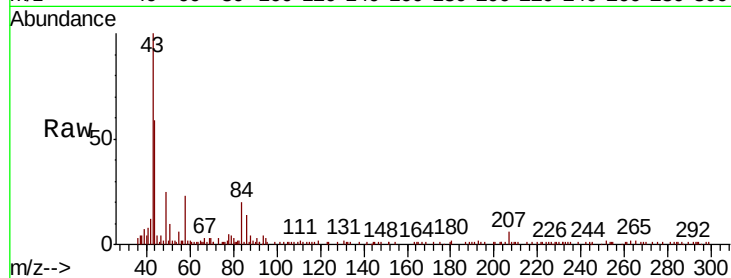
OK-03-060619

Tot Ion: 43 Resp: 54684

Ion Ratio Lower Upper

43 100

58 22.7 19.0 28.4



#18

Methyl Acetate

Concen: 6.332 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF062886.D

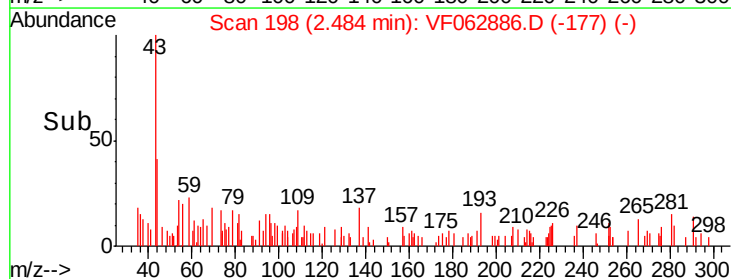
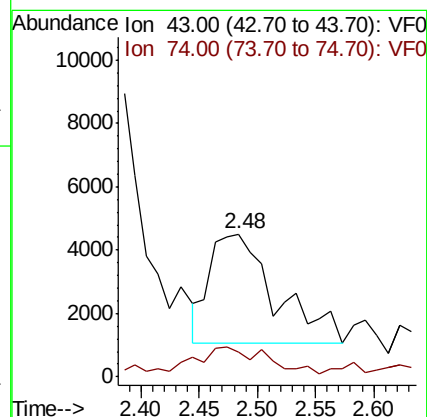
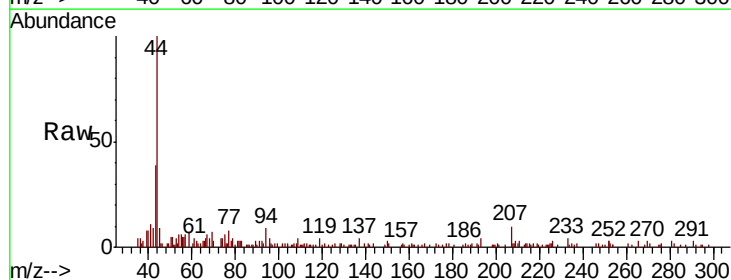
Acq: 6 Jun 2019 16:55

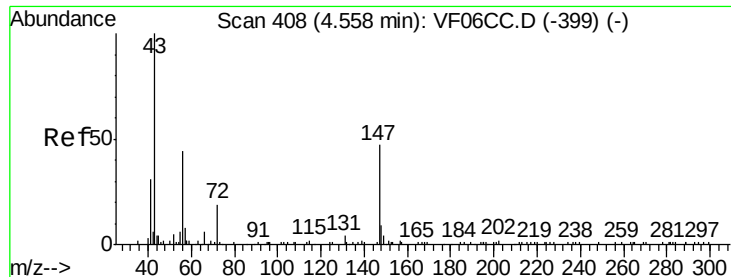
Tgt Ion: 43 Resp: 13508

Ion Ratio Lower Upper

43 100

74 17.1 22.1 33.1#

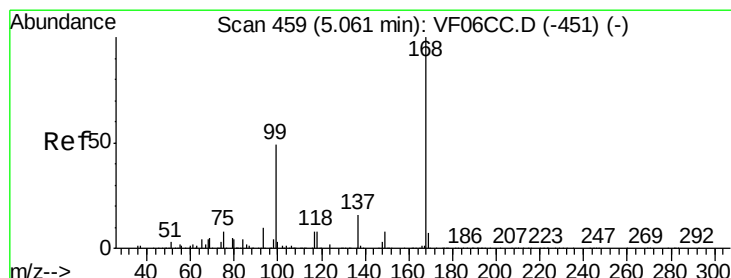
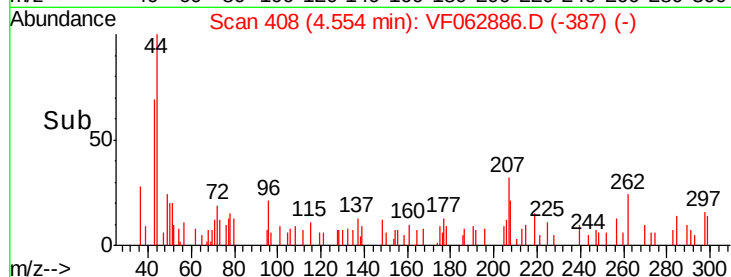
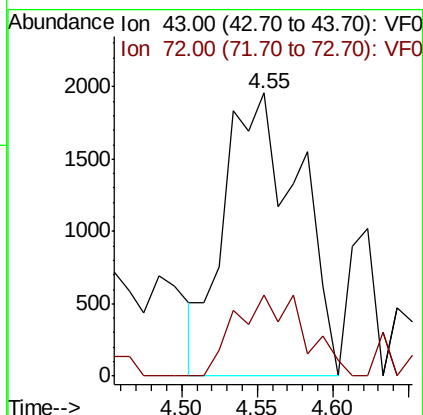
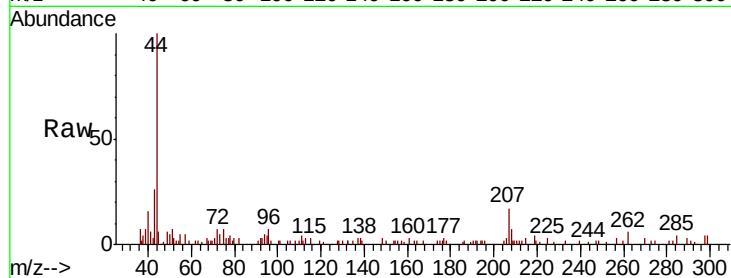




#25
2-Butanone
Concen: 2.378 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.00 min
Lab File: VF062886.D
Acq: 6 Jun 2019 16:55

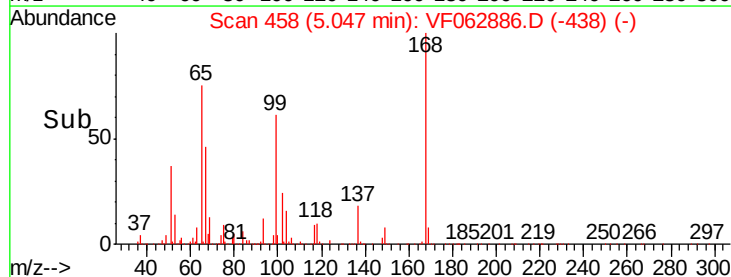
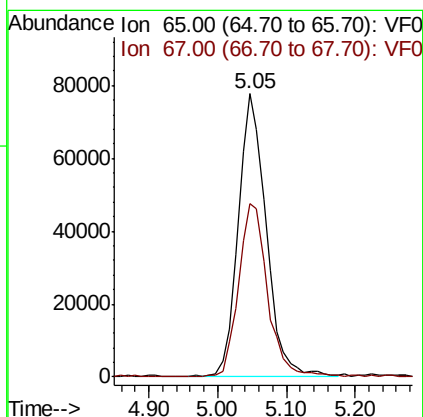
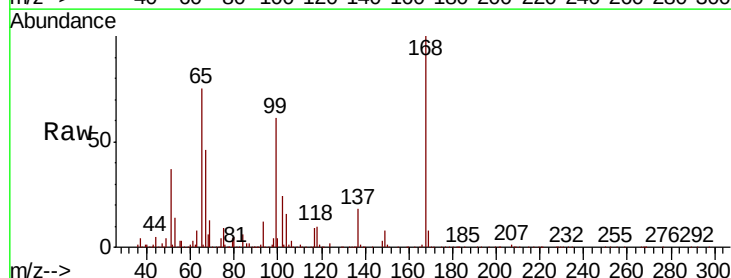
Instrument :
MSVOA_F
ClientSampleId :
OK-03-060619

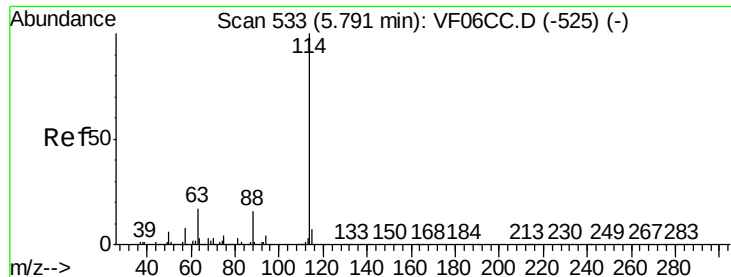
Tot Ion: 43 Resp: 6761
Ion Ratio Lower Upper
43 100
72 28.5 21.4 32.0



#33
1,2-Dichloroethane-d4
Concen: 41.028 ug/l
RT: 5.05 min Scan# 458
Delta R.T. -0.01 min
Lab File: VF062886.D
Acq: 6 Jun 2019 16:55

Tgt Ion: 65 Resp: 218841
Ion Ratio Lower Upper
65 100
67 61.1 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

OK-03-060619

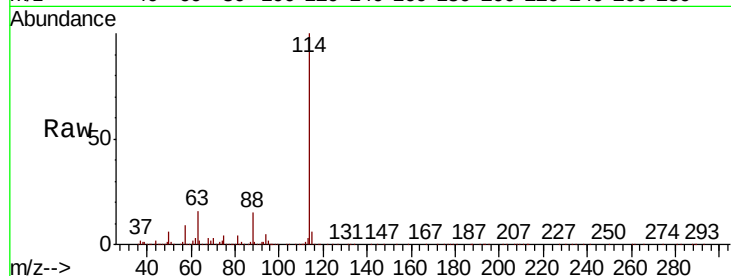
Tot Ion:114 Resp: 1325711

Ion Ratio Lower Upper

114 100

63 15.8 0.0 34.2

88 15.3 0.0 31.2



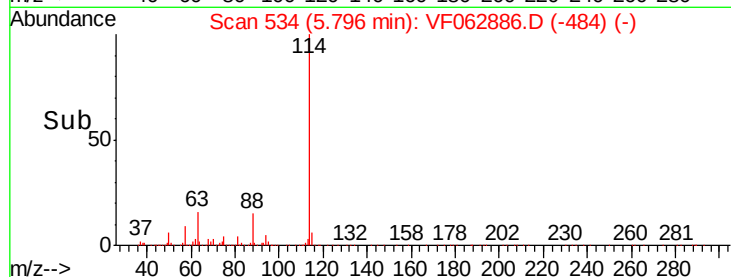
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

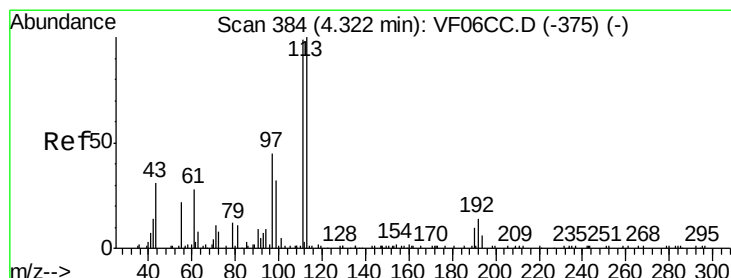
Ion 88.00 (87.70 to 88.70): VF0

5.80

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 43.074 ug/l

RT: 4.33 min Scan# 385

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

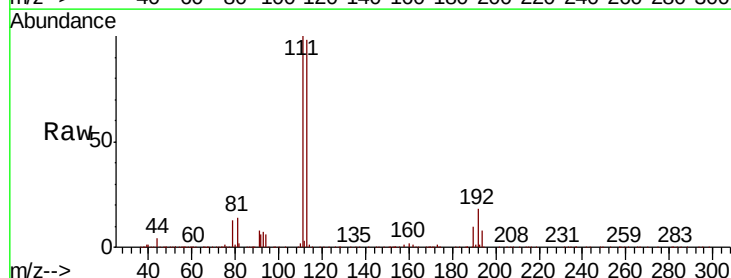
Tgt Ion:113 Resp: 431510

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

192 19.5 15.1 22.7



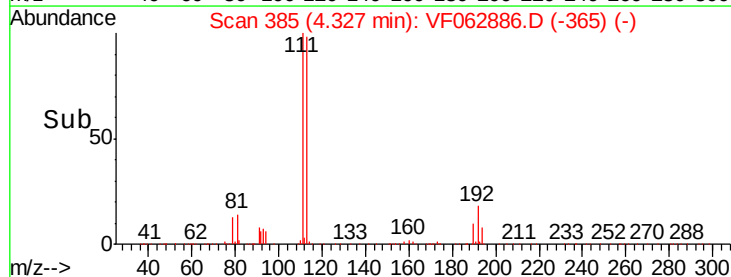
Abundance Ion 113.00 (112.70 to 113.70): V

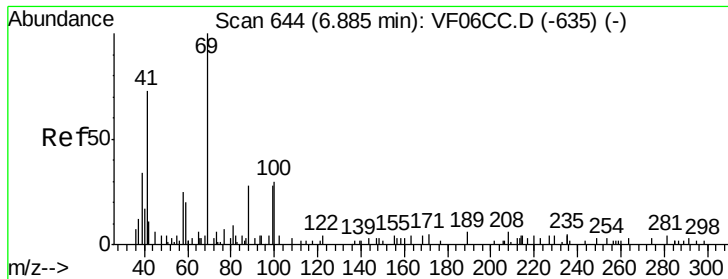
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

4.33

Time-->





#49

1,4-Dioxane

Concen: 2.006 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

OK-03-060619

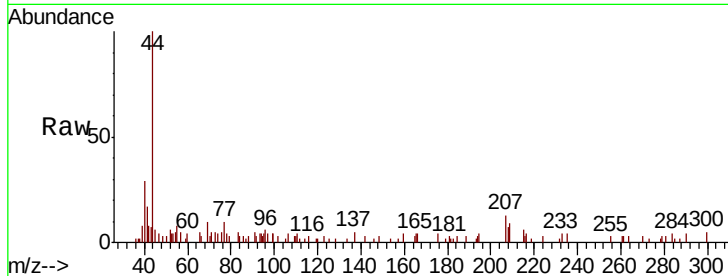
Tot Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 273.2 34.8 52.2#

58 0.0 59.9 89.9#



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

800

600

400

200

0

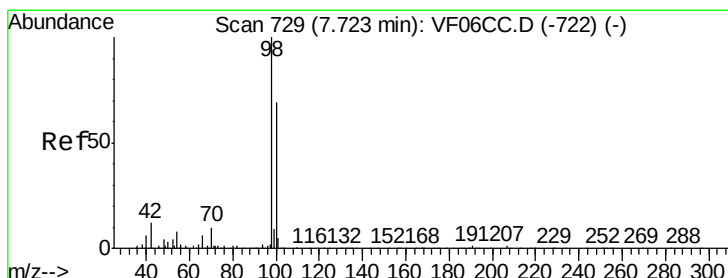
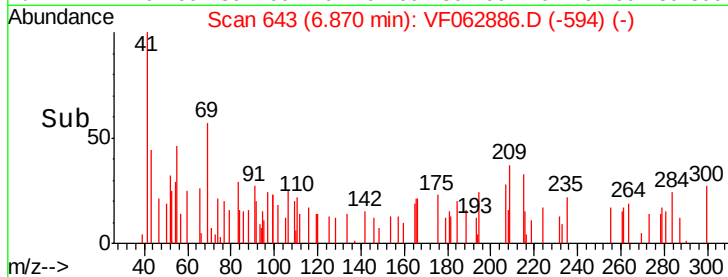
6.86

6.87

6.88

6.90

Time-->



#50

Toluene-d8

Concen: 35.339 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.01 min

Lab File: VF062886.D

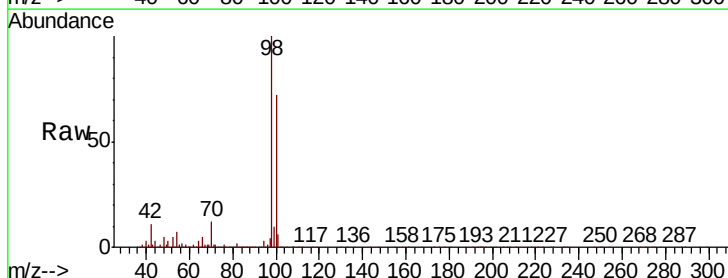
Acq: 6 Jun 2019 16:55

Tgt Ion: 98 Resp: 895226

Ion Ratio Lower Upper

98 100

100 71.7 59.8 89.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

400000

300000

200000

100000

0

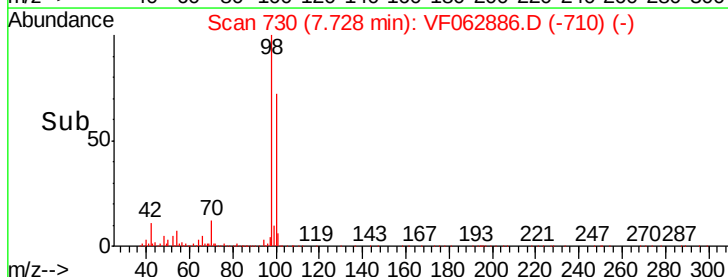
7.60

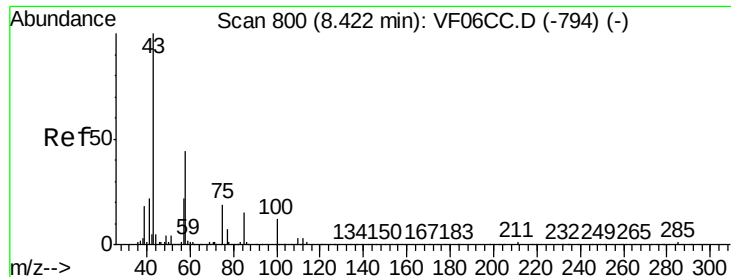
7.70

7.80

7.90

Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.589 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

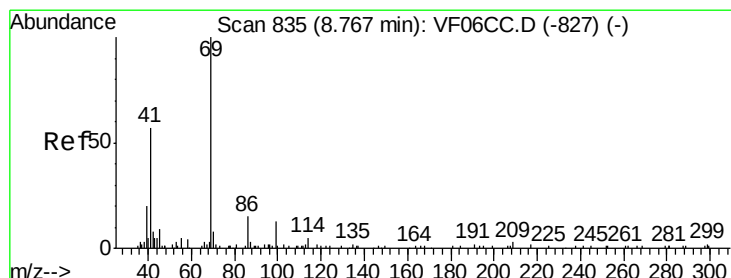
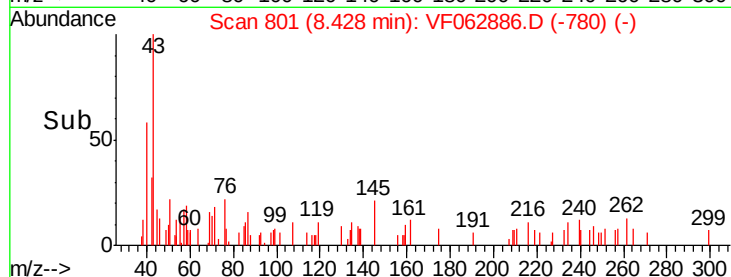
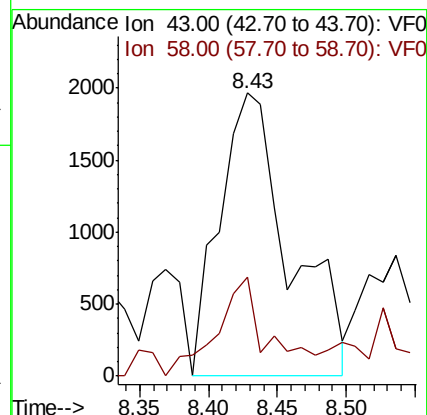
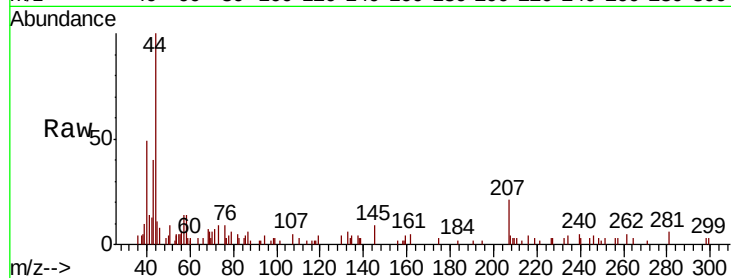
OK-03-060619

Tot Ion: 43 Resp: 6990

Ion Ratio Lower Upper

43 100

58 34.9 35.5 53.3#



#56

Ethyl methacrylate

Concen: 3.685 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

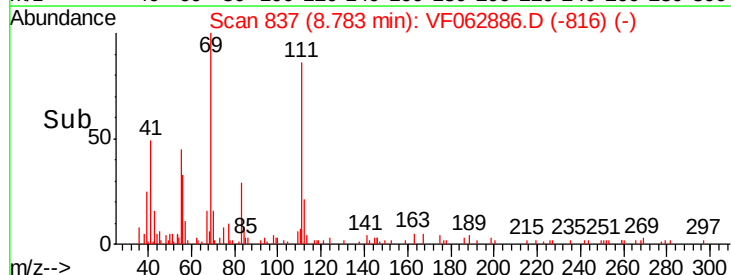
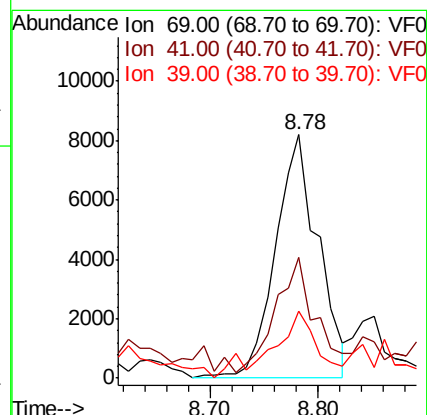
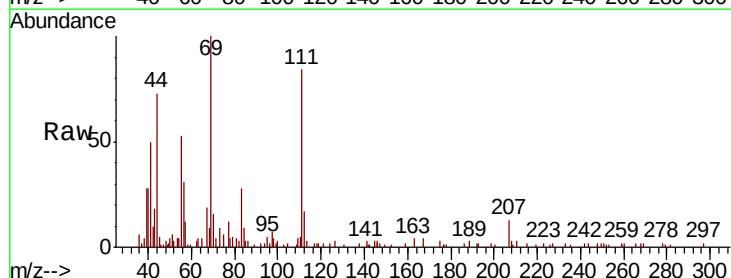
Tgt Ion: 69 Resp: 22601

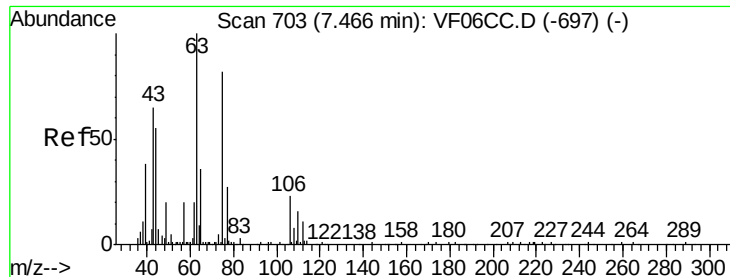
Ion Ratio Lower Upper

69 100

41 49.6 46.6 69.8

39 27.6 19.6 29.4





#58

2-Chloroethyl Vinyl ether

Concen: 1.285 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

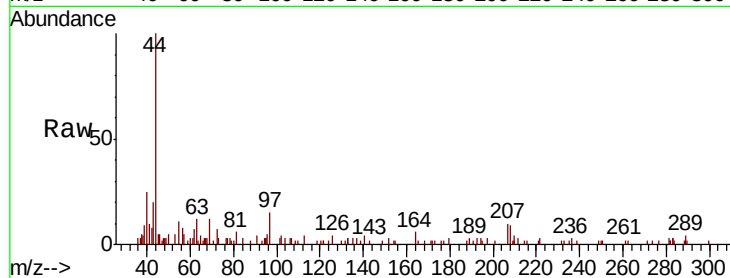
OK-03-060619

Tot Ion: 63 Resp: 2754

Ion Ratio Lower Upper

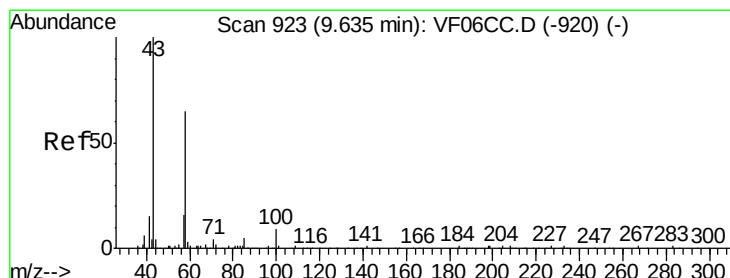
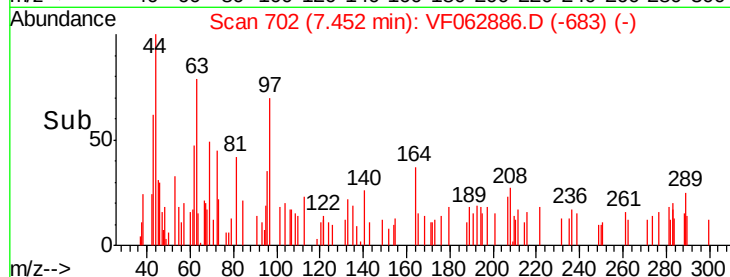
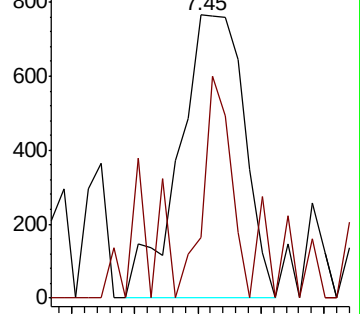
63 100

106 21.3 19.5 29.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.892 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.00 min

Lab File: VF062886.D

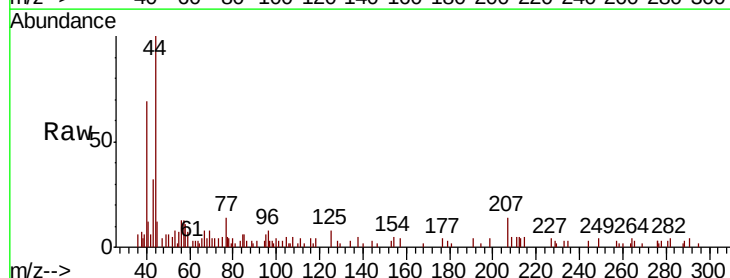
Acq: 6 Jun 2019 16:55

Tgt Ion: 43 Resp: 5935

Ion Ratio Lower Upper

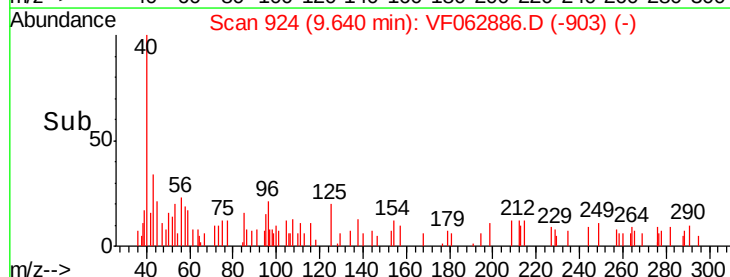
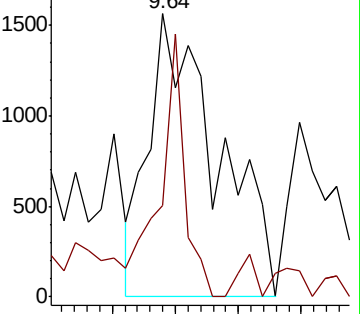
43 100

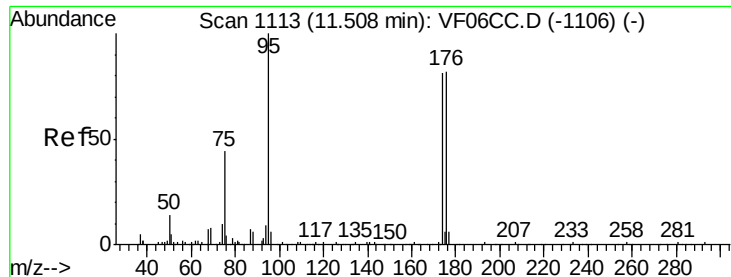
58 32.4 29.3 87.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 32.703 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

OK-03-060619

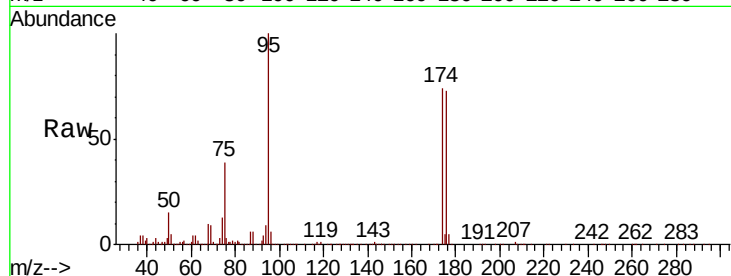
Tot Ion: 95 Resp: 298007

Ion Ratio Lower Upper

95 100

174 74.5 0.0 170.6

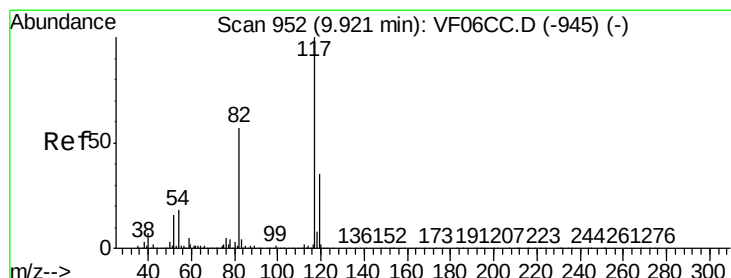
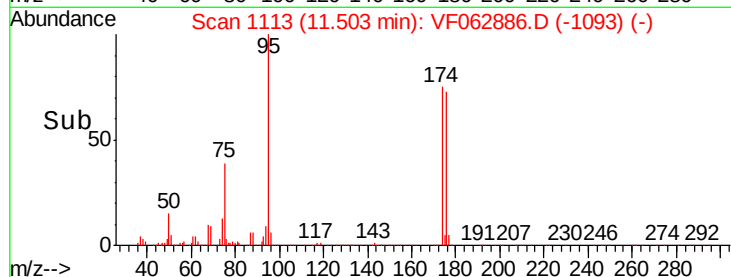
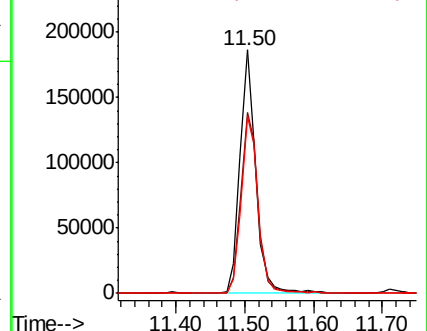
176 72.5 0.0 170.6



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: 9.93 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF062886.D

Acq: 6 Jun 2019 16:55

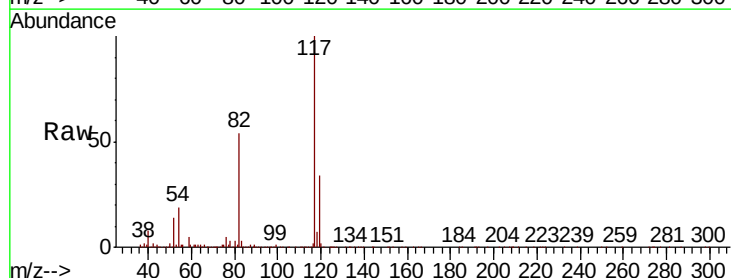
Tgt Ion: 117 Resp: 995656

Ion Ratio Lower Upper

117 100

82 54.4 42.4 63.6

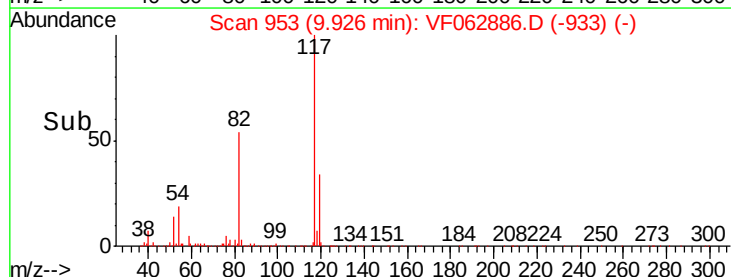
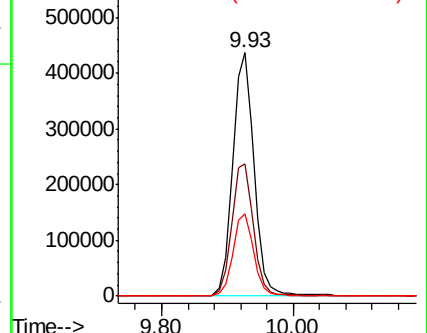
119 34.0 27.1 40.7

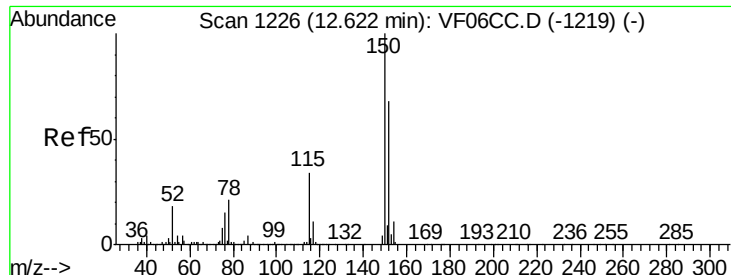


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.62 min Scan# 1226
 Delta R.T. -0.01 min
 Lab File: VF062886.D
 Acq: 6 Jun 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-060619

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.7	24.6	74.0
150	157.4	0.0	290.6

