

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061417.D
 Acq On : 16 Jan 2019 17:46
 Operator : VA/AP
 Sample : K1156-01RE
 Misc : 4.64g/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VOC-5RE

Quant Time: Jan 17 02:55:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	213621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	406112	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	327391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	144923	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	109788	41.63	ug/l	0.00
Spiked Amount			Recovery	=	83.26%	
35) Dibromofluoromethane	4.10	113	126303	39.41	ug/l	0.00
Spiked Amount			Recovery	=	78.82%	
50) Toluene-d8	7.55	98	308454	35.13	ug/l	0.00
Spiked Amount			Recovery	=	70.26%	
62) 4-Bromofluorobenzene	11.40	95	136294	33.22	ug/l	0.00
Spiked Amount			Recovery	=	66.44%	

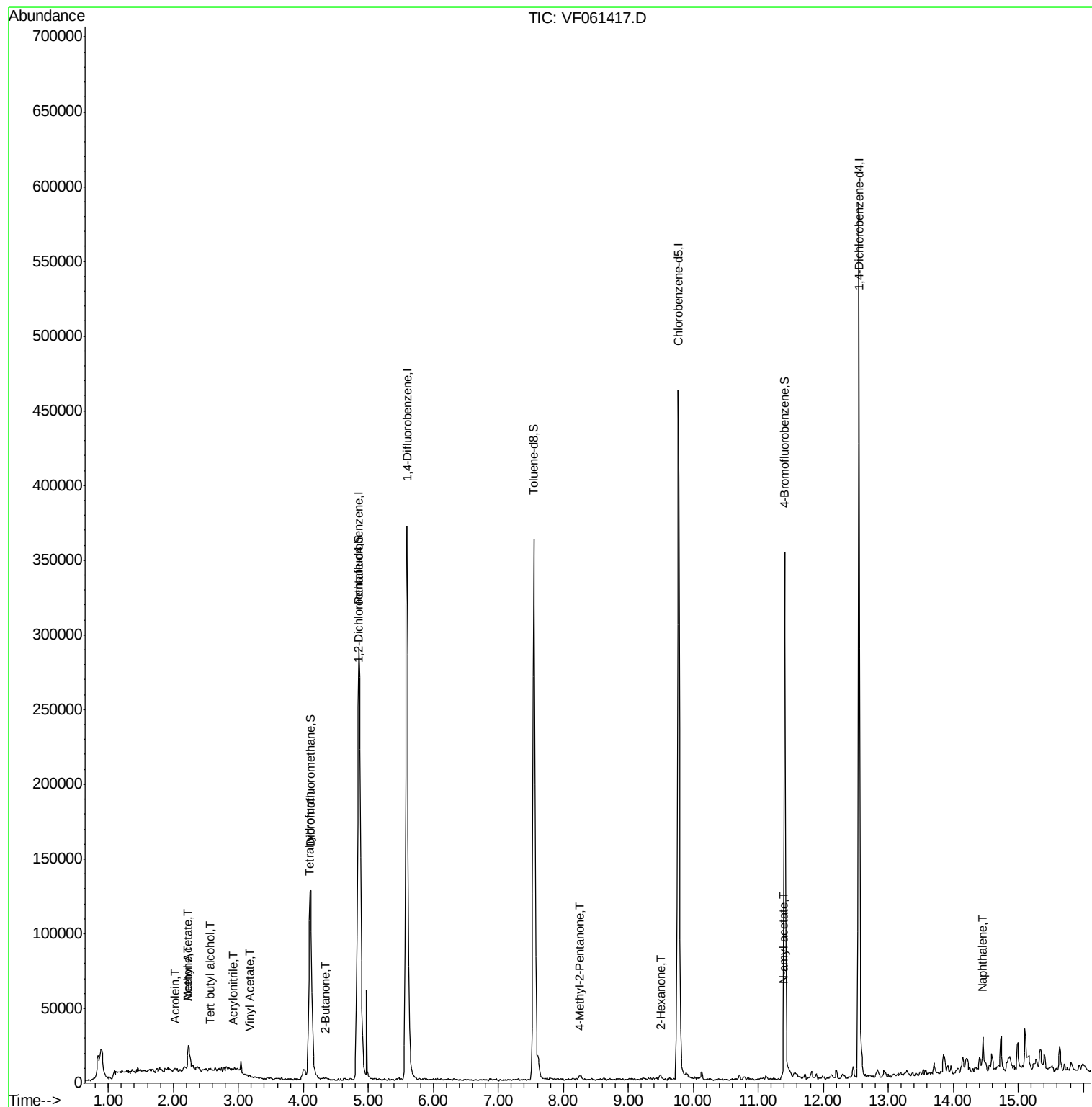
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	963	8.626	ug/l #	57
13) Acrolein	2.01	56	236	12.690	ug/l #	41
14) Allyl chloride	2.09	41	223	Below Cal	#	76
15) Acrylonitrile	2.92	53	418	1.462	ug/l #	80
16) Acetone	2.23	43	29048	54.901	ug/l	95
18) Methyl Acetate	2.23	43	29048	27.684	ug/l #	61
20) Methylene Chloride	2.17	84	704	Below Cal	#	82
23) Vinyl Acetate	3.19	43	432	3.337	ug/l #	78
25) 2-Butanone	4.33	43	2098	2.384	ug/l	95
29) Tetrahydrofuran	4.08	42	1260	3.326	ug/l #	55
51) 4-Methyl-2-Pentanone	8.26	43	3211	1.849	ug/l	91
59) 2-Hexanone	9.49	43	3777	3.119	ug/l	82
74) N-amyl acetate	11.37	43	2893	1.038	ug/l #	90
95) Naphthalene	14.45	128	10008	1.615	ug/l	99

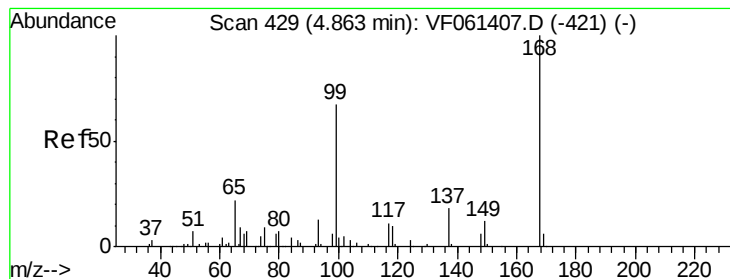
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011619\
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

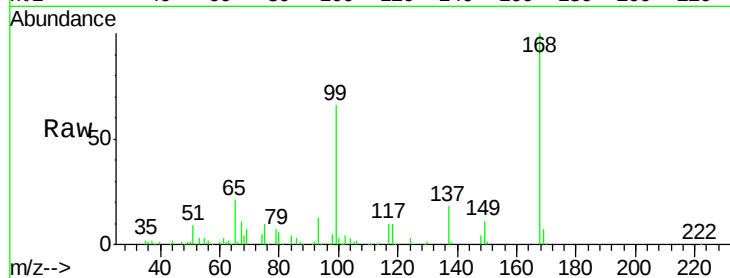
VOC-5RE

Tot Ion:168 Resp: 213621

Ion Ratio Lower Upper

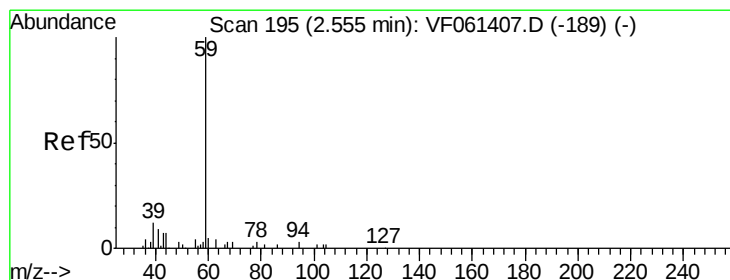
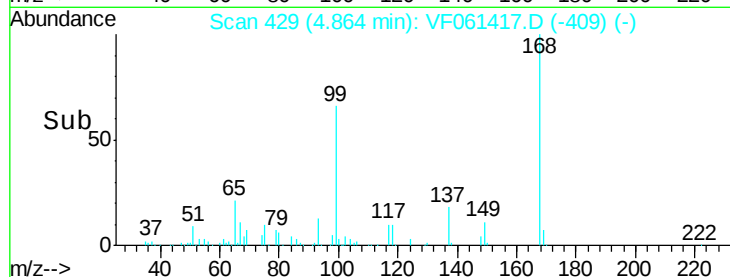
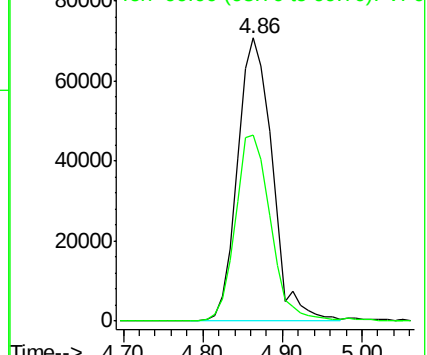
168 100

99 65.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 8.626 ug/l

RT: 2.56 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF061417.D

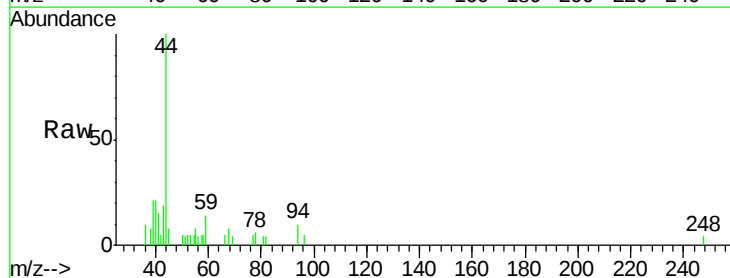
Acq: 16 Jan 2019 17:46

Tgt Ion: 59 Resp: 963

Ion Ratio Lower Upper

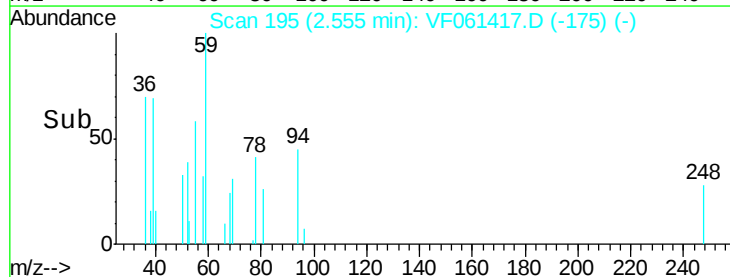
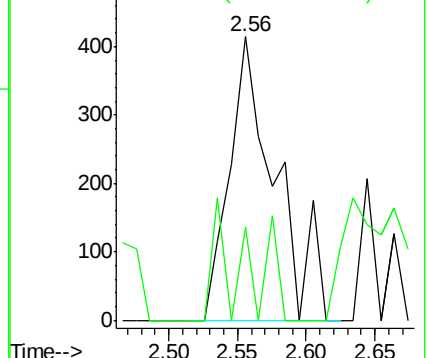
59 100

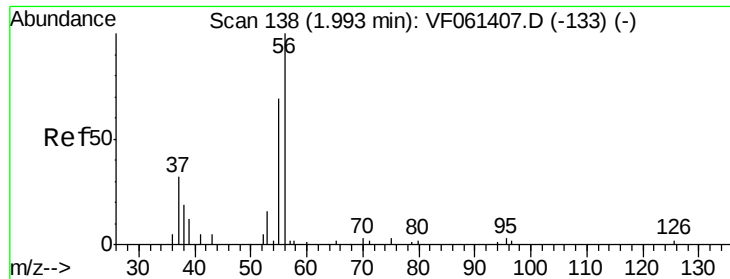
57 32.9 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 12.690 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.02 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

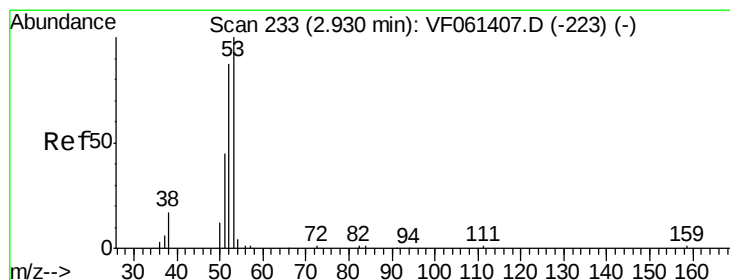
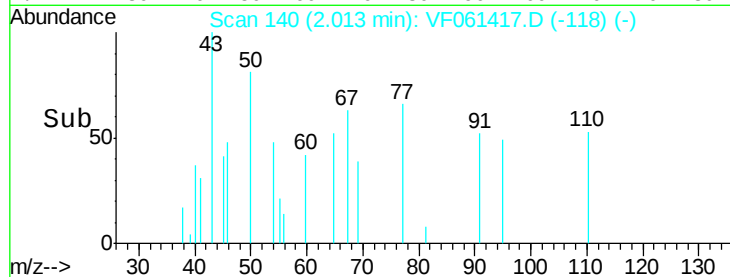
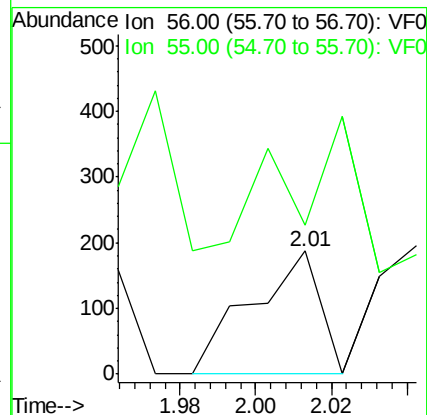
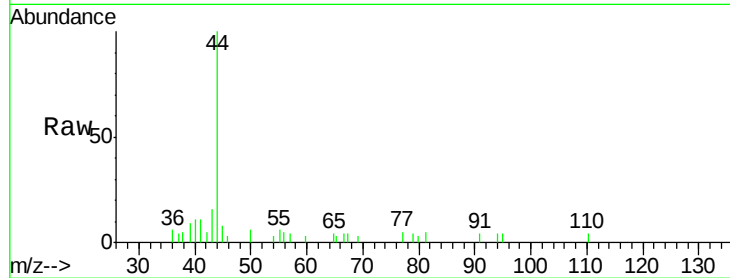
VOC-5RE

Tot Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 121.4 57.5 86.3#



#15

Acrylonitrile

Concen: 1.462 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.01 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

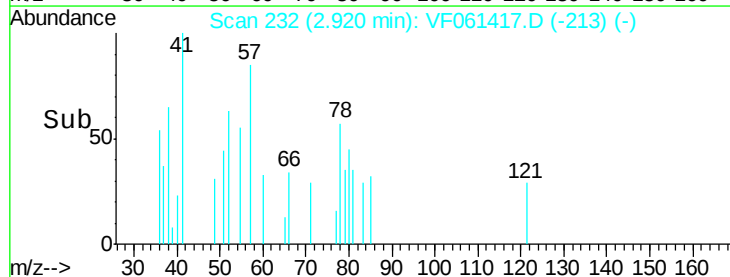
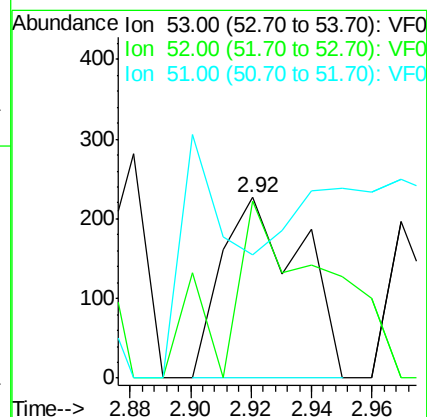
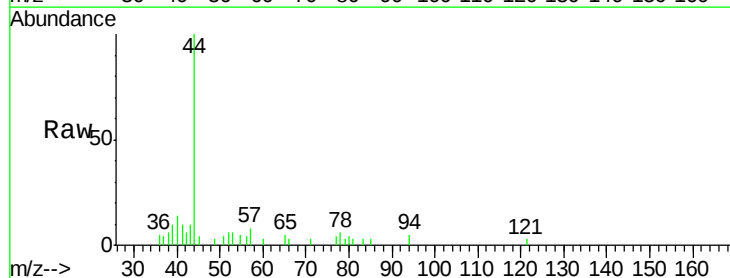
Tgt Ion: 53 Resp: 418

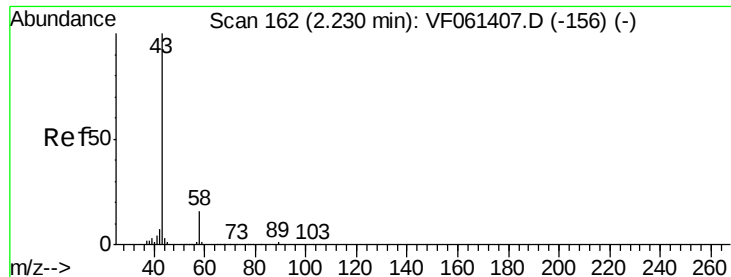
Ion Ratio Lower Upper

53 100

52 98.2 69.6 104.4

51 68.3 36.8 55.2#

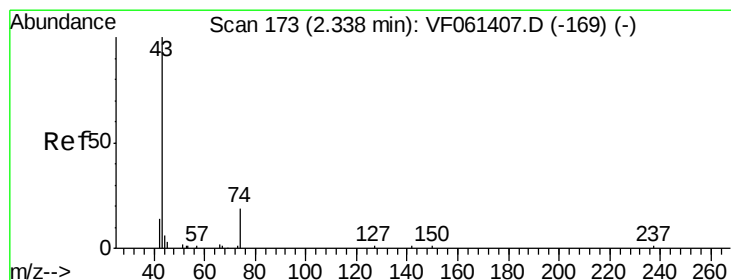
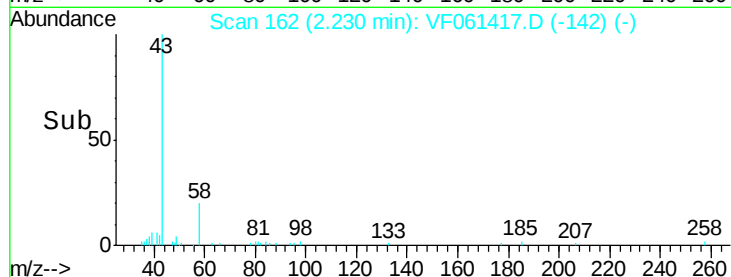
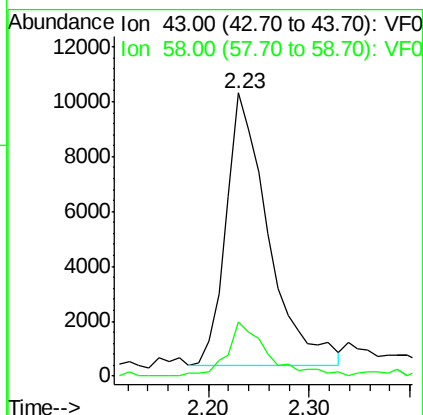
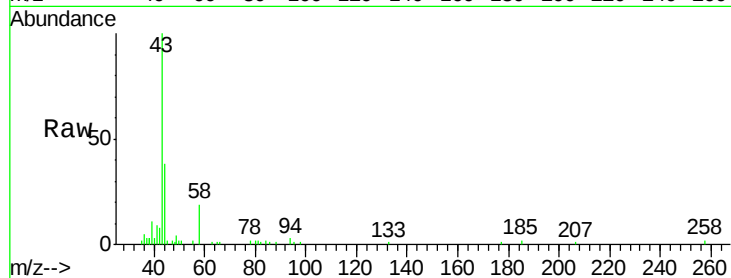




#16
Acetone
Concen: 54.901 ug/l
RT: 2.23 min Scan# 162
Delta R.T. 0.00 min
Lab File: VF061417.D
Acq: 16 Jan 2019 17:46

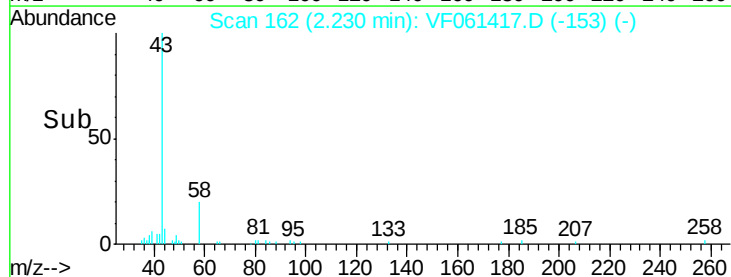
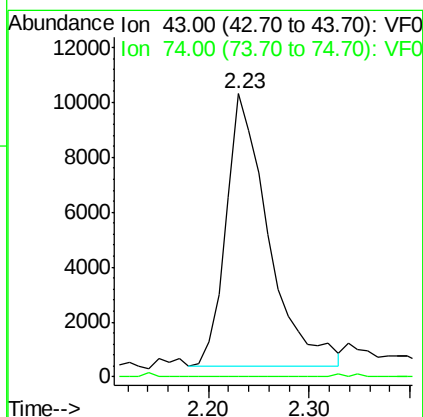
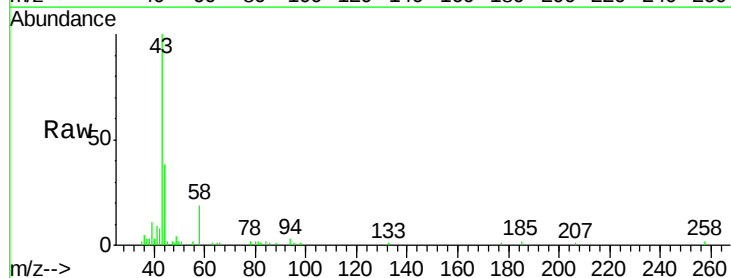
Instrument :
MSVOA_F
ClientSampleId :
VOC-5RE

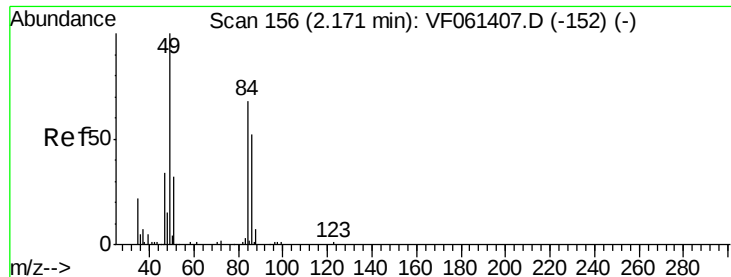
Tot Ion: 43 Resp: 29048
Ion Ratio Lower Upper
43 100
58 19.0 13.3 19.9



#18
Methyl Acetate
Concen: 27.684 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.11 min
Lab File: VF061417.D
Acq: 16 Jan 2019 17:46

Tgt Ion: 43 Resp: 29048
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.17 min Scan# 156

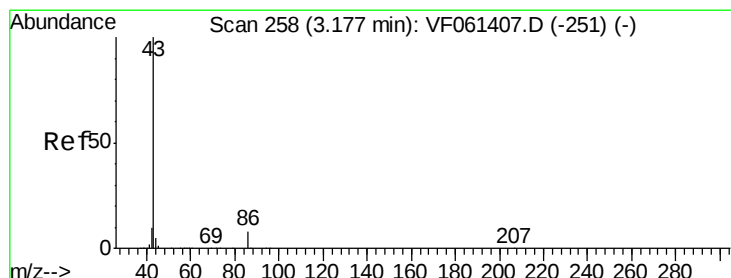
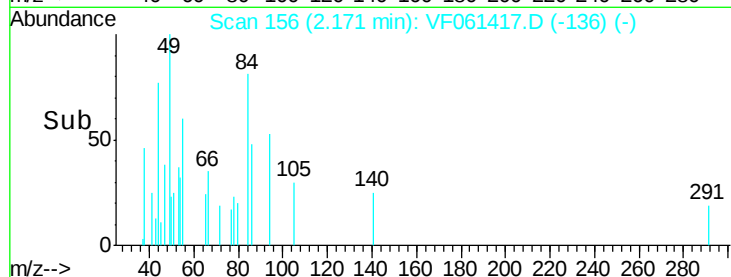
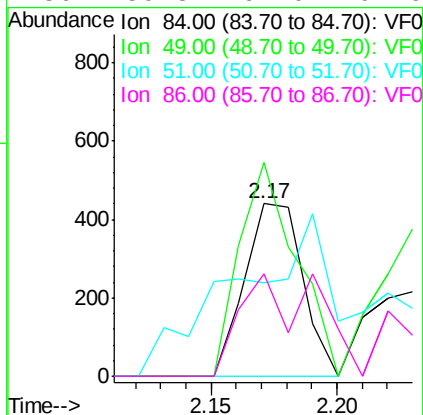
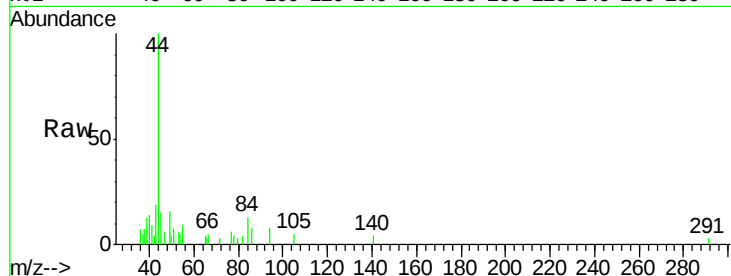
Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :
MSVOA_F
ClientSampleId :
VOC-5RE

Tot Ion:	84	Resp:	704
Ion	Ratio	Lower	Upper
84	100		
49	123.9	120.0	180.0
51	54.3	38.6	58.0
86	59.8	61.0	91.6#



#23

Vinyl Acetate

Concen: 3.337 ug/l

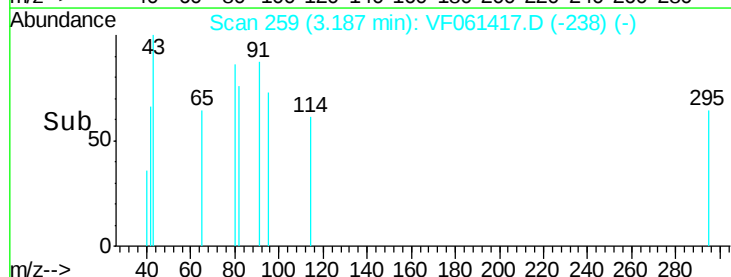
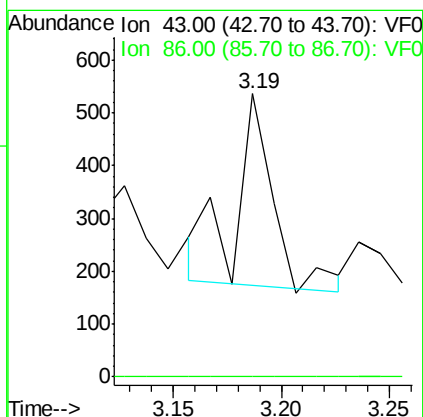
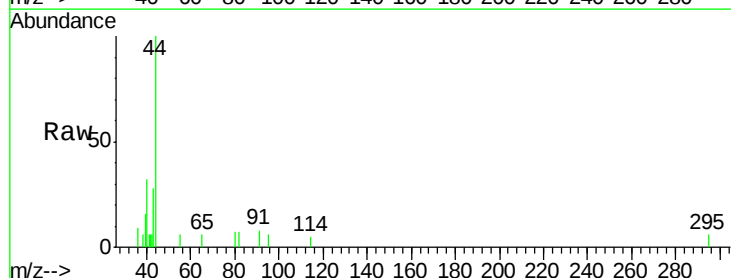
RT: 3.19 min Scan# 259

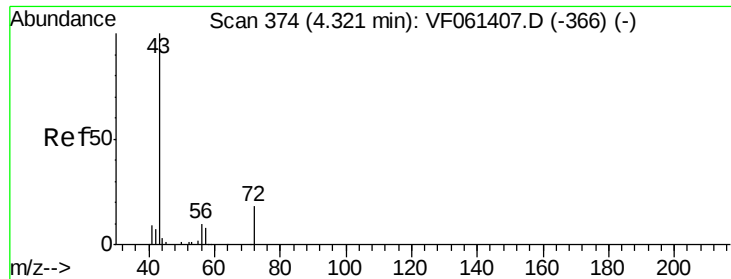
Delta R.T. 0.01 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Tgt Ion:	43	Resp:	432
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#





#25

2-Butanone

Concen: 2.384 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

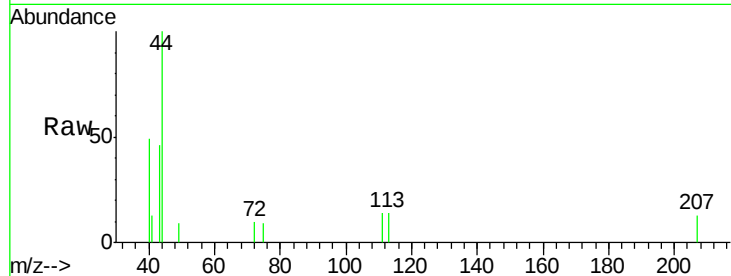
VOC-5RE

Tot Ion: 43 Resp: 2098

Ion Ratio Lower Upper

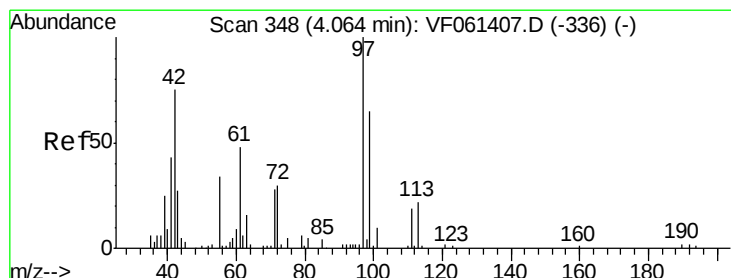
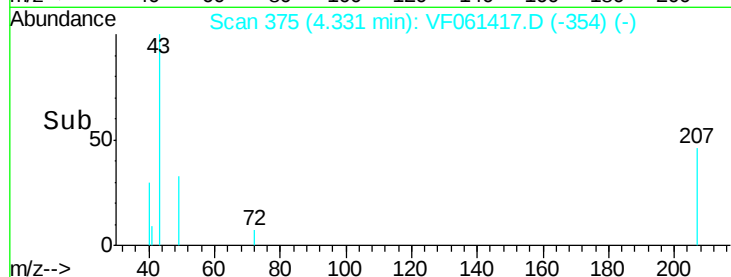
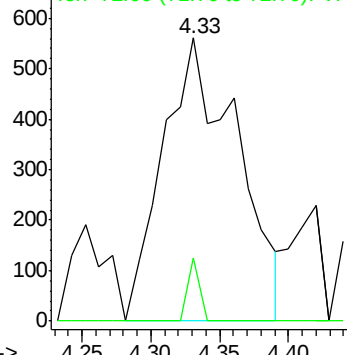
43 100

72 22.1 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.326 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

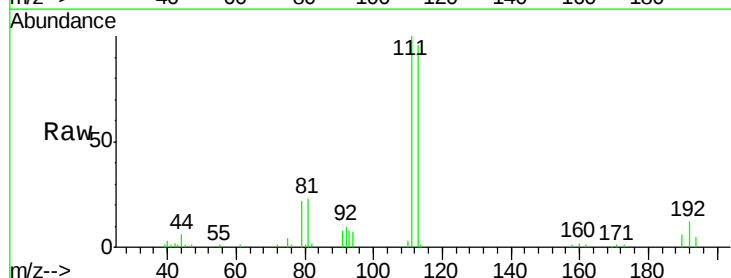
Tgt Ion: 42 Resp: 1260

Ion Ratio Lower Upper

42 100

72 20.4 28.9 43.3#

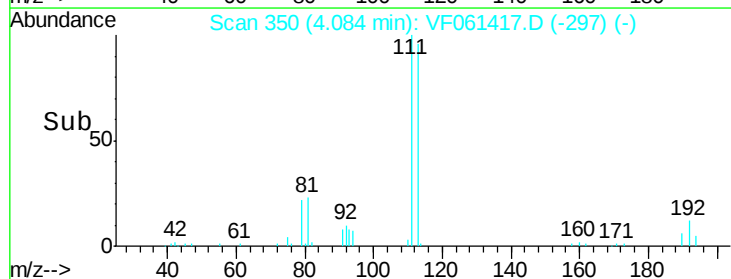
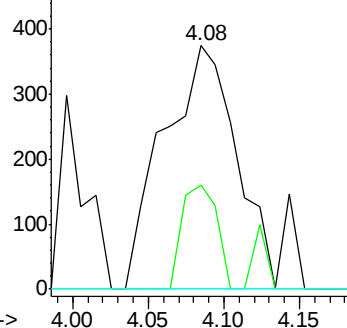
71 0.0 29.6 44.4#

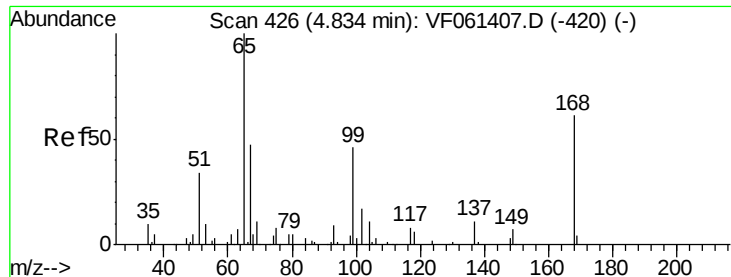


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 41.627 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

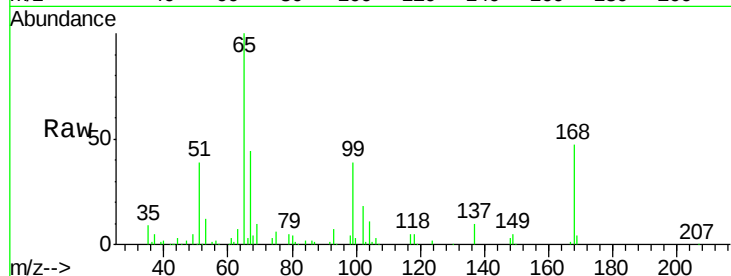
VOC-5RE

Tot Ion: 65 Resp: 109788

Ion Ratio Lower Upper

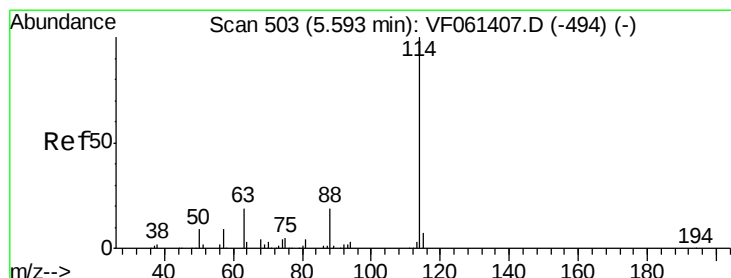
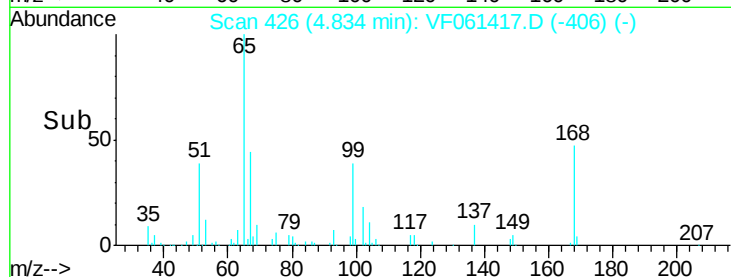
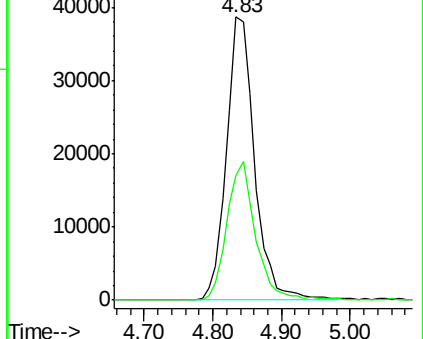
65 100

67 44.1 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

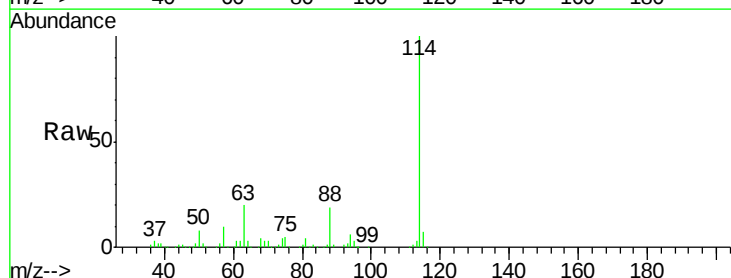
Tgt Ion: 114 Resp: 406112

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

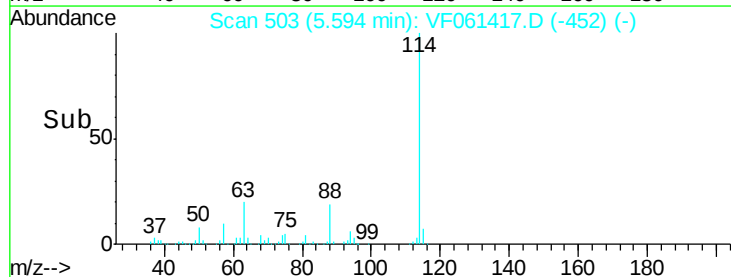
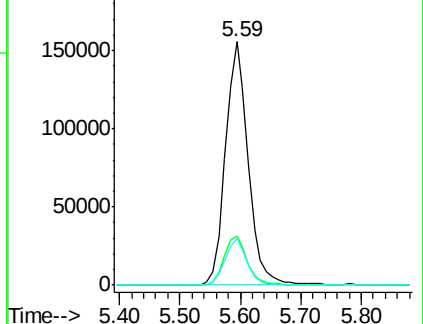
88 18.8 0.0 37.4

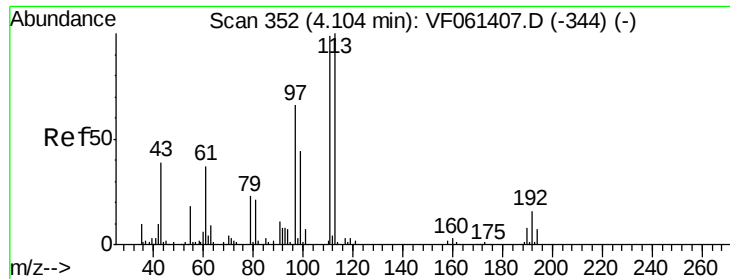


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 39.413 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampled :

VOC-5RE

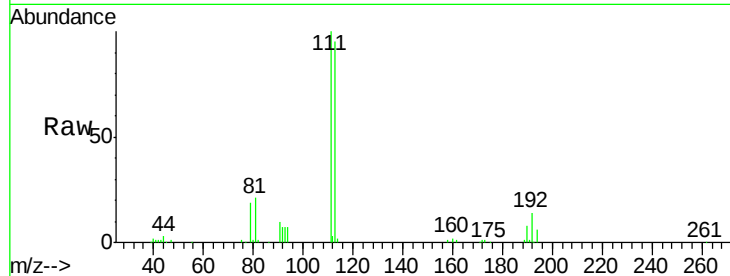
Tot Ion:113 Resp: 126303

Ion Ratio Lower Upper

113 100

111 105.7 79.4 119.0

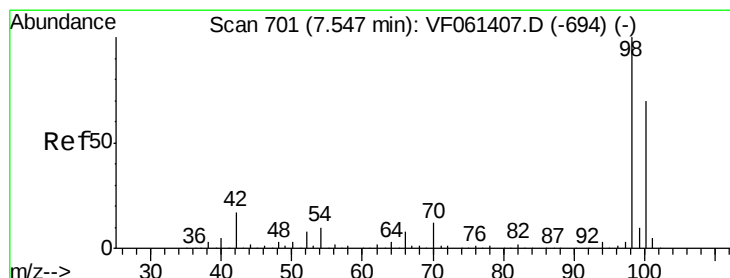
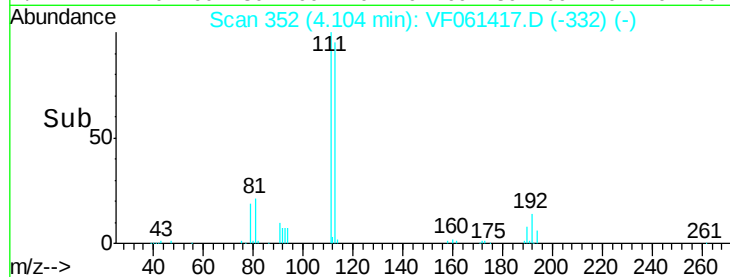
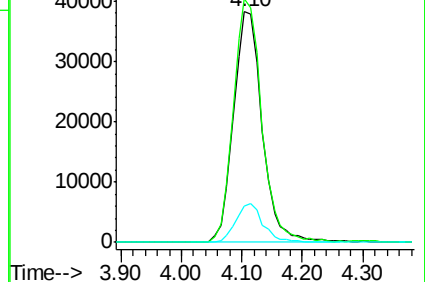
192 15.5 12.4 18.6



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



#50

Toluene-d8

Concen: 35.132 ug/l

RT: 7.55 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF061417.D

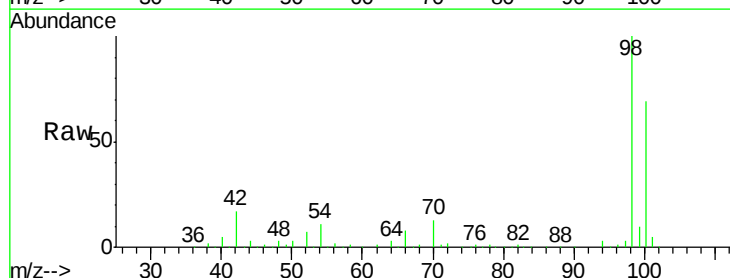
Acq: 16 Jan 2019 17:46

Tgt Ion: 98 Resp: 308454

Ion Ratio Lower Upper

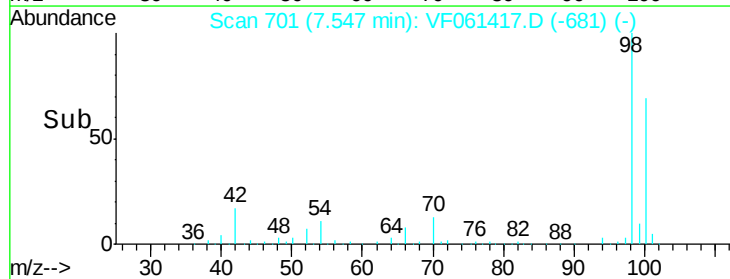
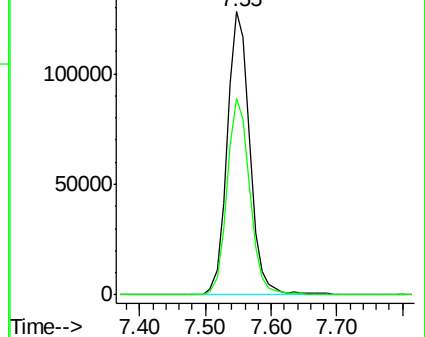
98 100

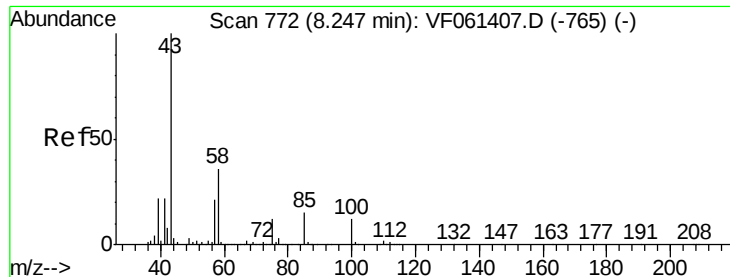
100 69.2 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.849 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

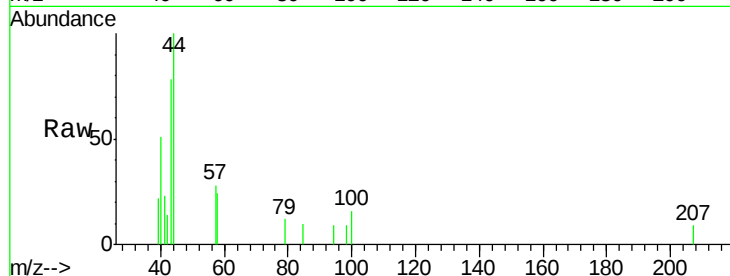
VOC-5RE

Tot Ion: 43 Resp: 3211

Ion Ratio Lower Upper

43 100

58 30.7 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1000

800

600

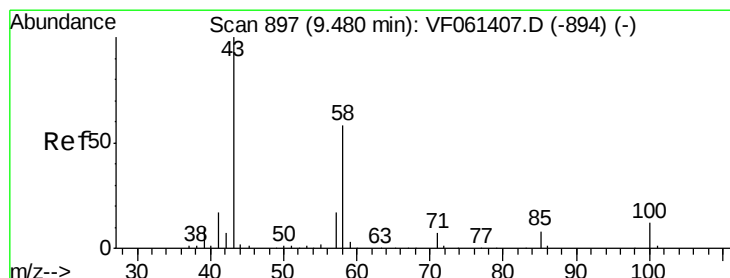
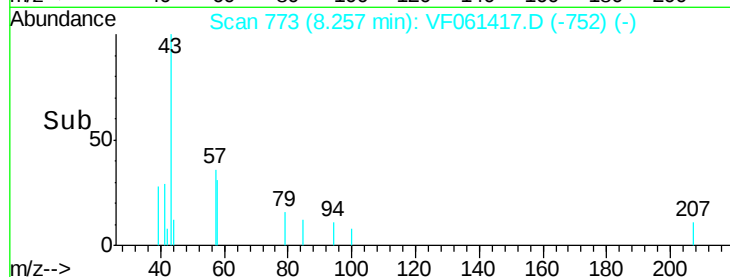
400

200

0

8.15 8.20 8.25 8.30 8.35

Time-->



#59

2-Hexanone

Concen: 3.119 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061417.D

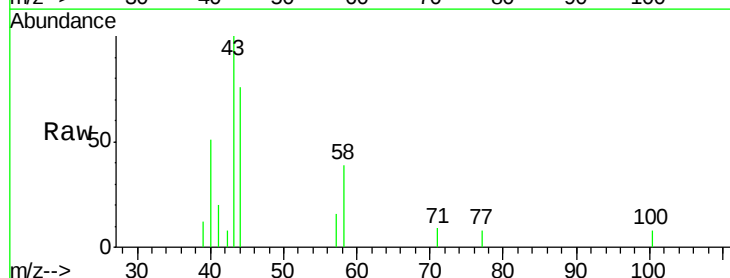
Acq: 16 Jan 2019 17:46

Tgt Ion: 43 Resp: 3777

Ion Ratio Lower Upper

43 100

58 38.8 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

1500

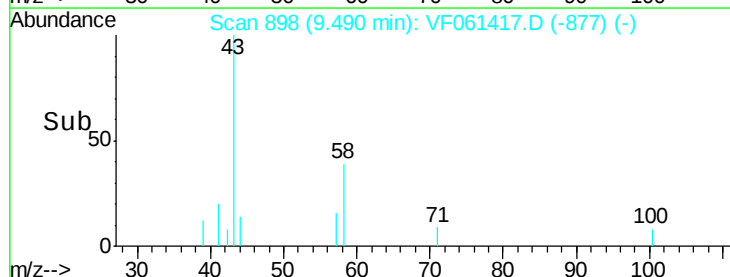
1000

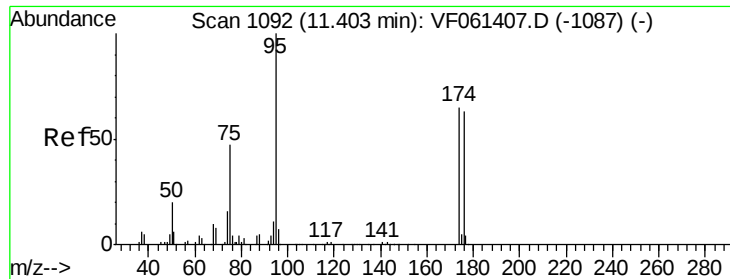
500

0

9.45 9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 33.224 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

VOC-5RE

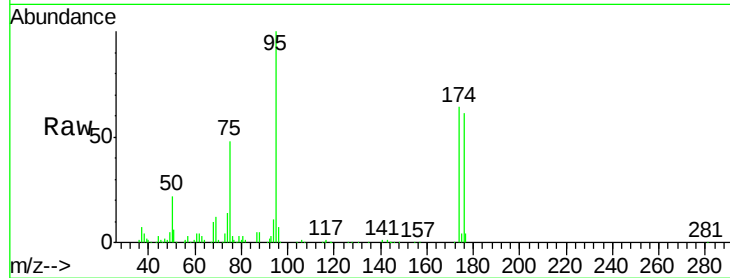
Tot Ion: 95 Resp: 136294

Ion Ratio Lower Upper

95 100

174 63.5 0.0 130.4

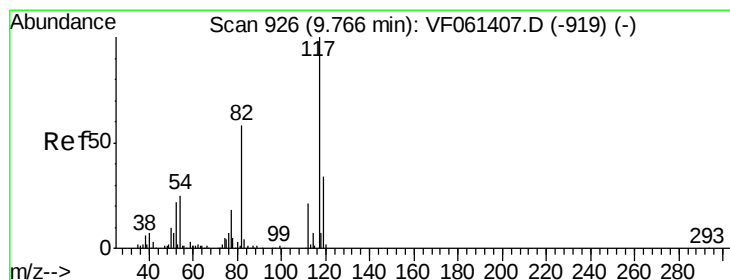
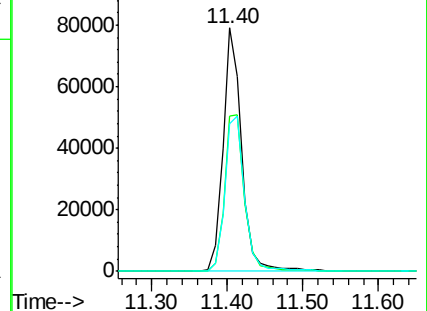
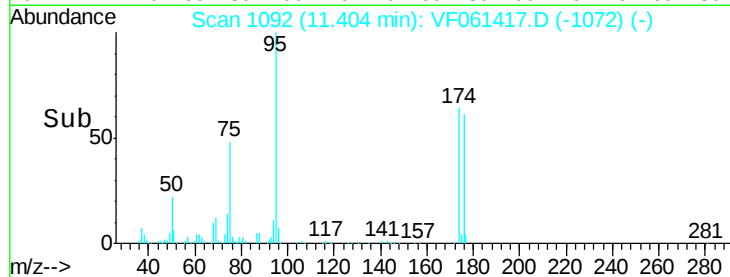
176 60.6 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061417.D (-1072) (-)

Ion 174.00 (173.70 to 174.70): VF061417.D (-1072) (-)

Ion 176.00 (175.70 to 176.70): VF061417.D (-1072) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

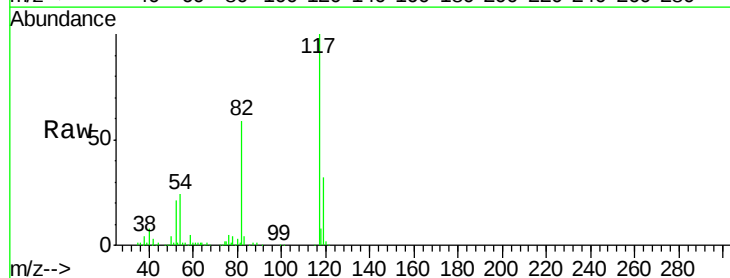
Tgt Ion: 117 Resp: 327391

Ion Ratio Lower Upper

117 100

82 59.2 46.4 69.6

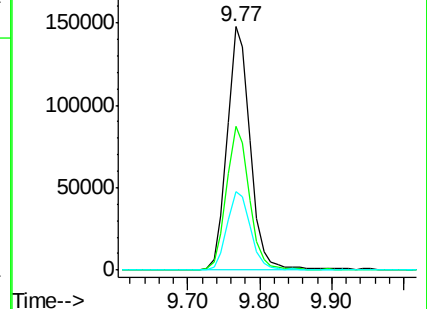
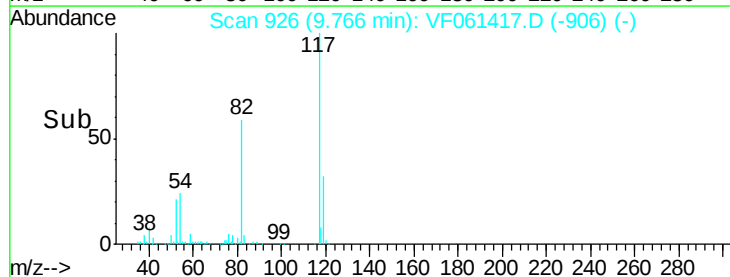
119 32.5 27.2 40.8

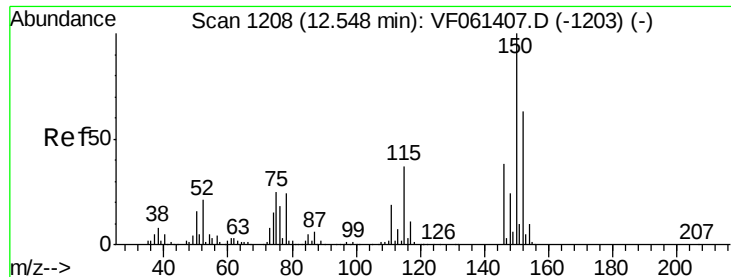


Abundance Ion 117.00 (116.70 to 117.70): VF061417.D (-906) (-)

Ion 82.00 (81.70 to 82.70): VF061417.D (-906) (-)

Ion 119.00 (118.70 to 119.70): VF061417.D (-906) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

VOC-5RE

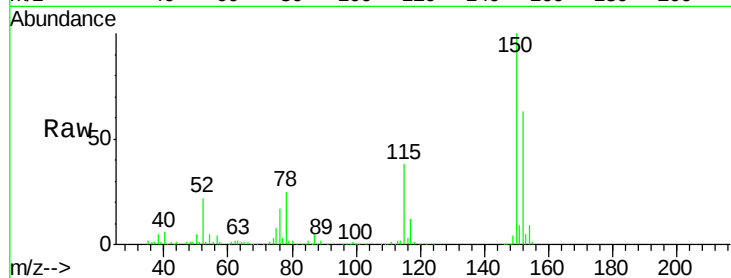
Tot Ion:152 Resp: 144923

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

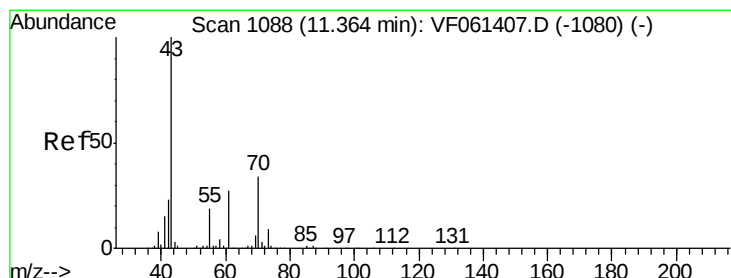
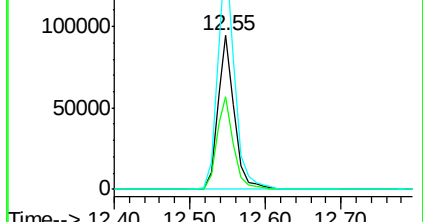
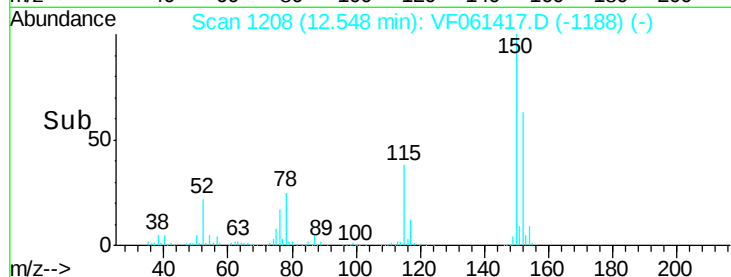
150 158.6 0.0 321.4



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



#74

N-ethyl acetate

Concen: 1.038 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061417.D

Acq: 16 Jan 2019 17:46

Tgt Ion: 43 Resp: 2893

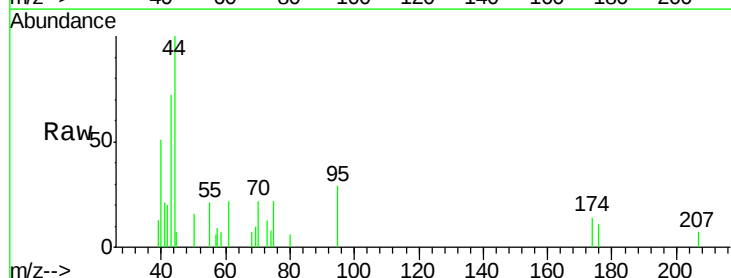
Ion Ratio Lower Upper

43 100

70 31.1 27.6 41.4

55 29.1 15.4 23.2#

61 30.9 21.8 32.6

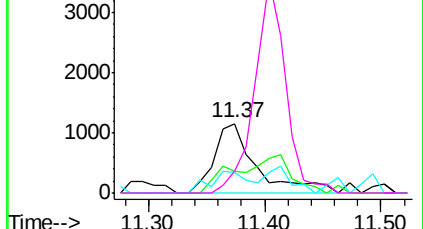
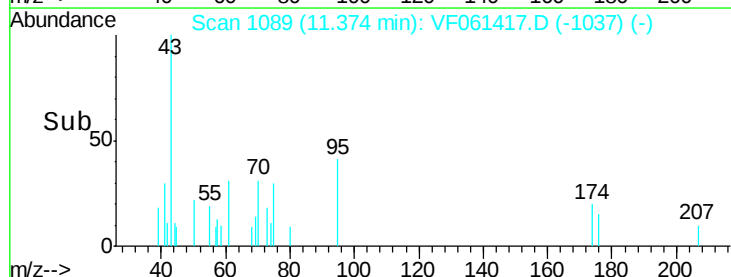


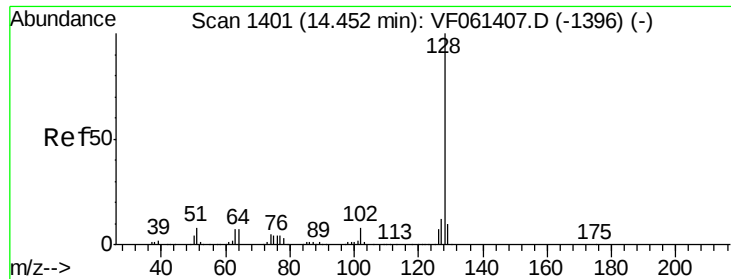
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

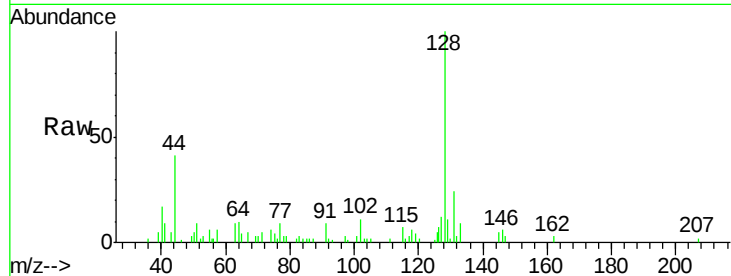




#95
Naphthalene
Concen: 1.615 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061417.D
Acq: 16 Jan 2019 17:46

Instrument :
MSVOA_F
ClientSampleId :
VOC-5RE

Tot Ion:128 Resp: 10008
Ion Ratio Lower Upper
128 100
127 11.8 9.5 14.3
129 11.2 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

