

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062706.D
 Acq On : 22 May 2019 15:25
 Operator : FY/SY
 Sample : K2978-06RE
 Misc : 5.48g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-SOILRE

Quant Time: May 23 01:22:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	475993	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	791474	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	538999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	191849	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	105363	31.32	ug/l	0.00
Spiked Amount			Recovery	=	62.64%	
35) Dibromofluoromethane	4.30	113	206700	34.13	ug/l	-0.02
Spiked Amount			Recovery	=	68.26%	
50) Toluene-d8	7.70	98	408762	28.27	ug/l	-0.02
Spiked Amount			Recovery	=	56.54%	
62) 4-Bromofluorobenzene	11.48	95	125605	22.90	ug/l	-0.02
Spiked Amount			Recovery	=	45.80%	

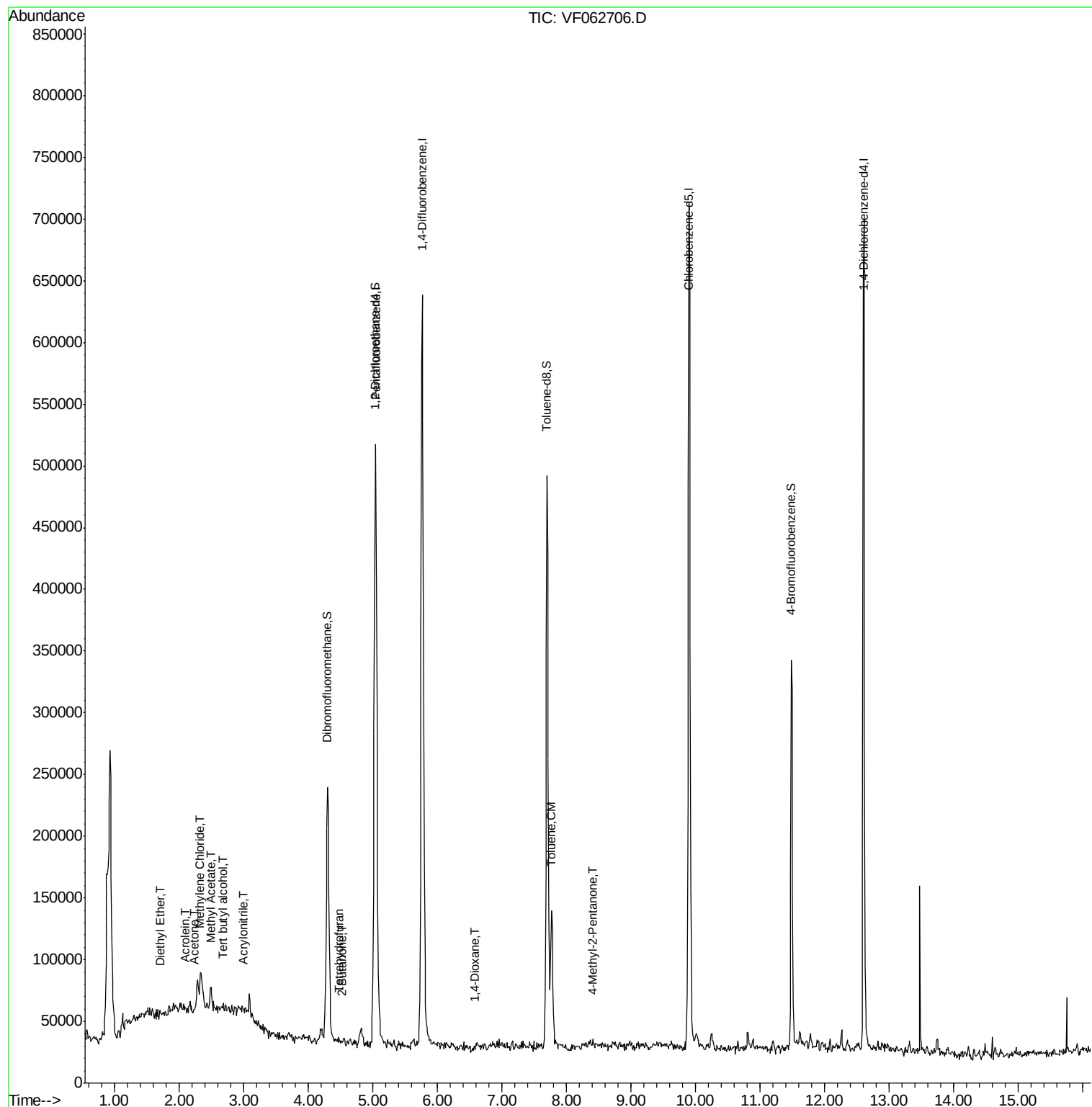
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.72	74	1532	1.049	ug/l	89
11) Tert butyl alcohol	2.69	59	1558	7.016	ug/l #	26
13) Acrolein	2.09	56	517	2.230	ug/l #	1
15) Acrylonitrile	3.00	53	1041	1.662	ug/l	87
16) Acetone	2.23	43	1227	1.406	ug/l	96
18) Methyl Acetate	2.49	43	4947	3.608	ug/l #	84
20) Methylene Chloride	2.34	84	13946	3.188	ug/l #	92
25) 2-Butanone	4.52	43	4969	2.665	ug/l #	73
29) Tetrahydrofuran	4.49	42	935	1.239	ug/l	88
49) 1,4-Dioxane	6.58	88	197	6.859	ug/l	93
51) 4-Methyl-2-Pentanone	8.40	43	5557	1.895	ug/l	89
52) Toluene	7.77	92	62644	5.406	ug/l	94
59) 2-Hexanone	9.62	43	2754	Below Cal		97
74) N-amyl acetate	11.44	43	1406	Below Cal #		57

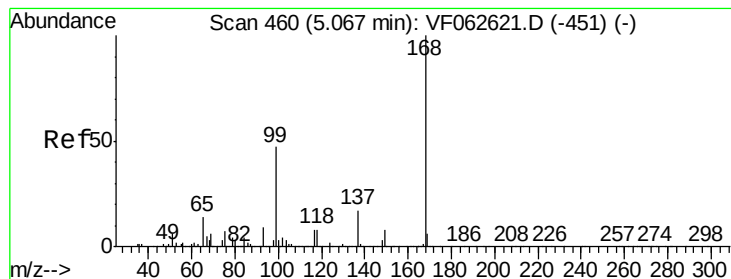
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

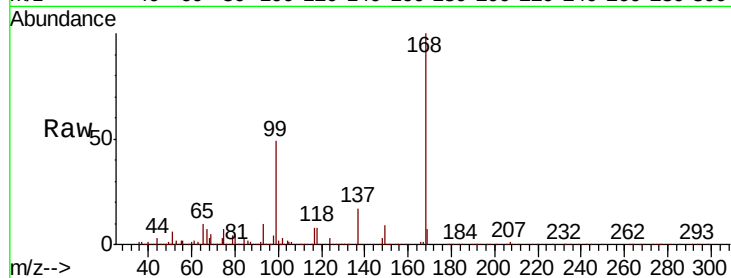
TP-SOILRE

Tot Ion:168 Resp: 475993

Ion Ratio Lower Upper

168 100

99 48.9 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

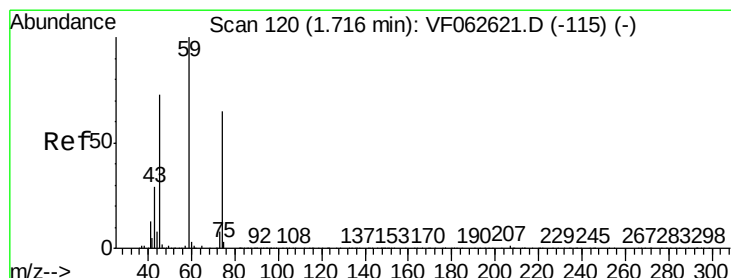
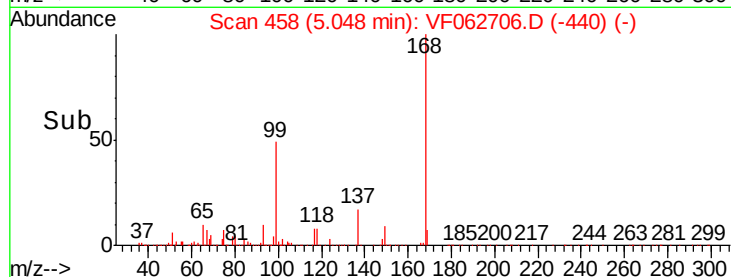
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.049 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062706.D

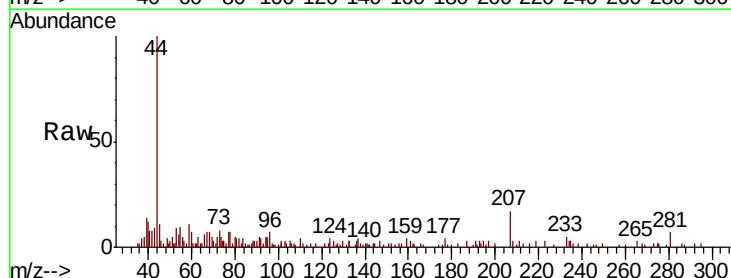
Acq: 22 May 2019 15:25

Tgt Ion: 74 Resp: 1532

Ion Ratio Lower Upper

74 100

45 101.8 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1200

1000

800

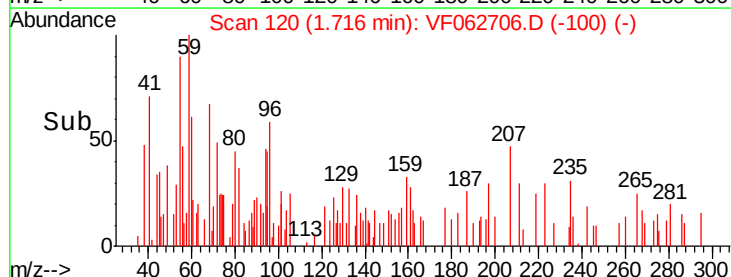
600

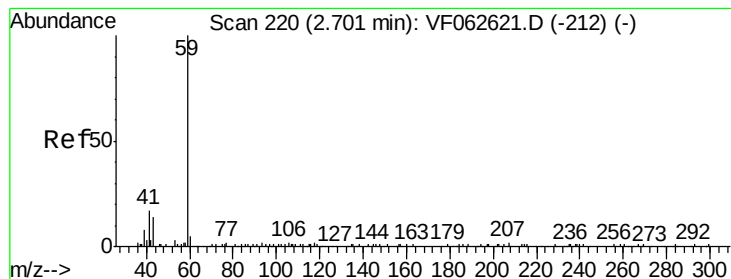
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 7.016 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampled :

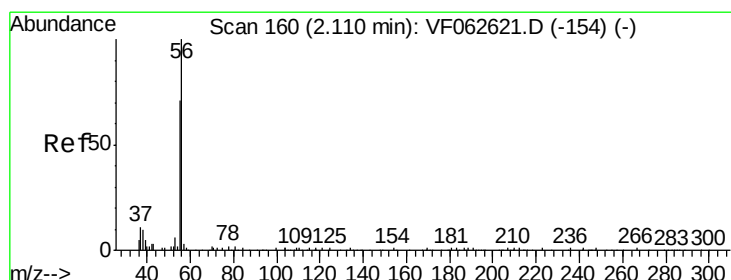
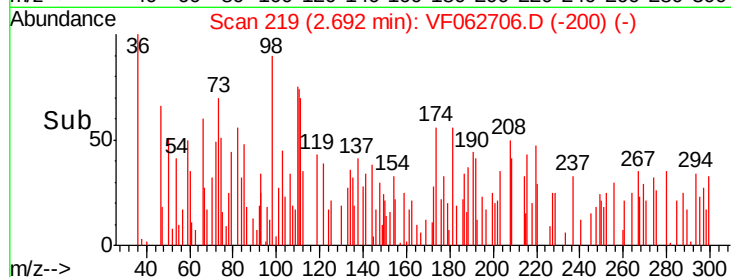
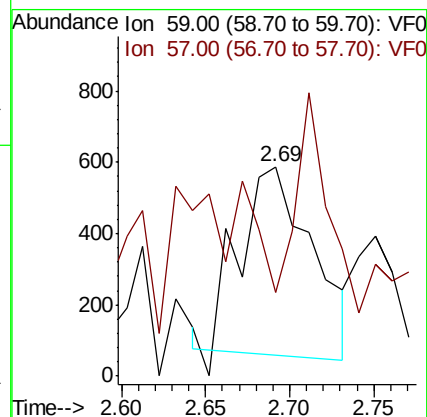
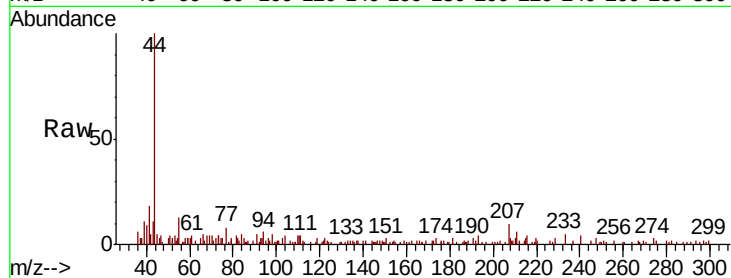
TP-SOILRE

Tot Ion: 59 Resp: 1558

Ion Ratio Lower Upper

59 100

57 40.2 9.3 13.9#



#13

Acrolein

Concen: 2.230 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062706.D

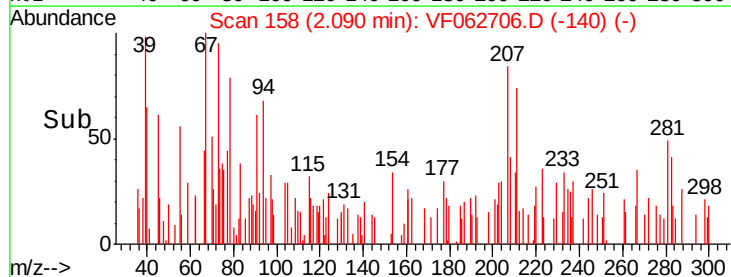
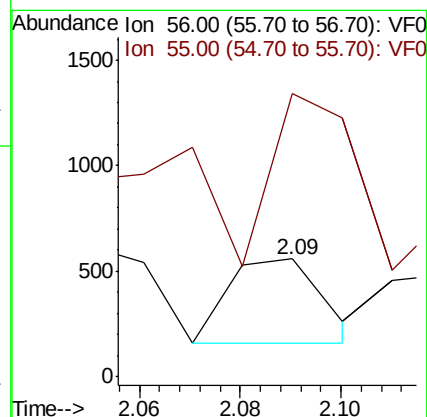
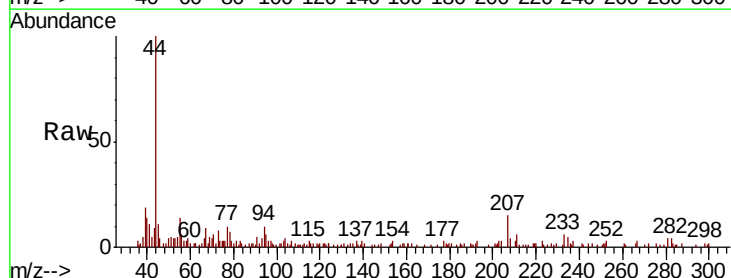
Acq: 22 May 2019 15:25

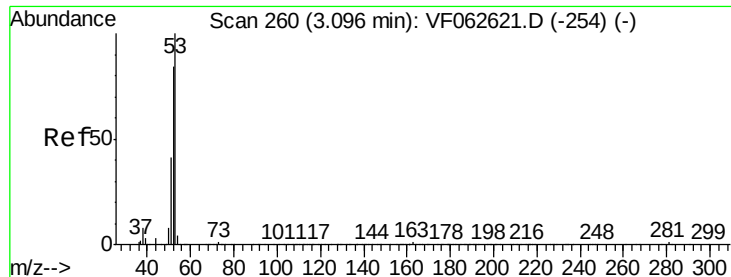
Tgt Ion: 56 Resp: 517

Ion Ratio Lower Upper

56 100

55 239.5 59.4 89.0#





#15

Acrylonitrile

Concen: 1.662 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.10 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

TP-SOILRE

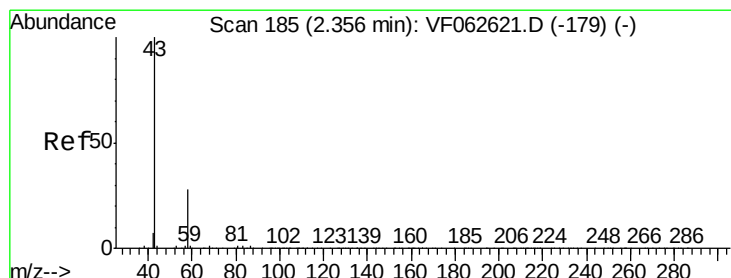
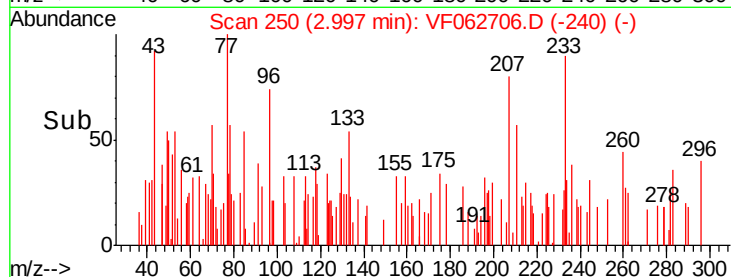
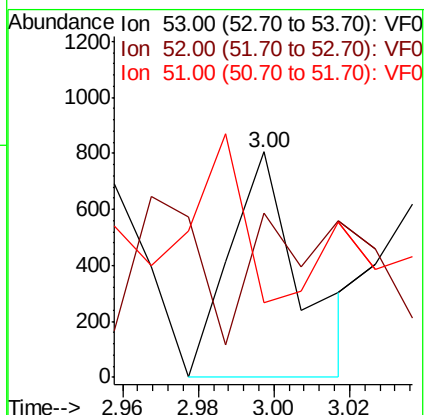
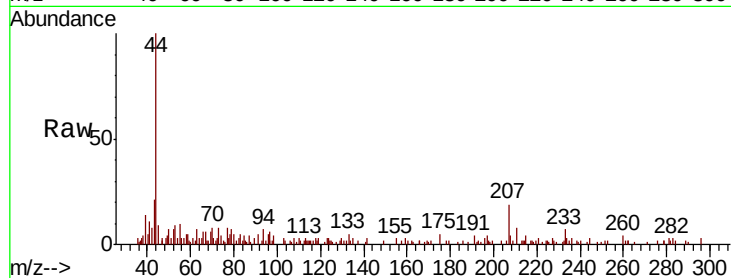
Tot Ion: 53 Resp: 1041

Ion Ratio Lower Upper

53 100

52 72.8 67.3 100.9

51 33.3 33.0 49.6



#16

Acetone

Concen: 1.406 ug/l

RT: 2.23 min Scan# 172

Delta R.T. -0.13 min

Lab File: VF062706.D

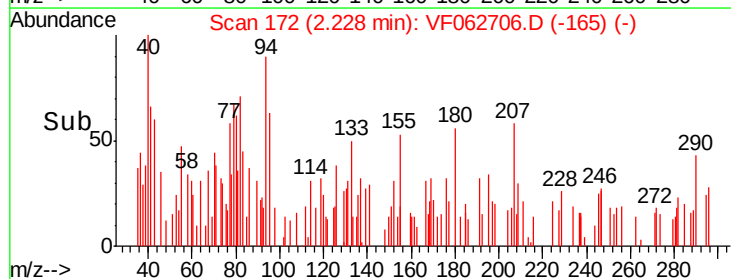
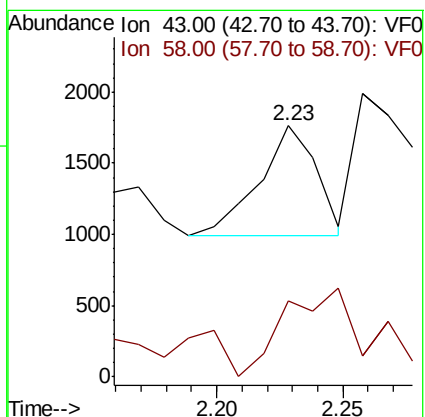
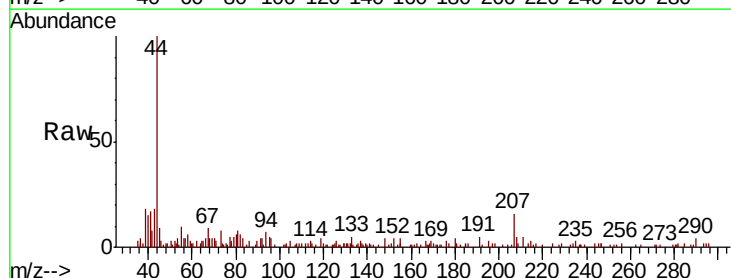
Acq: 22 May 2019 15:25

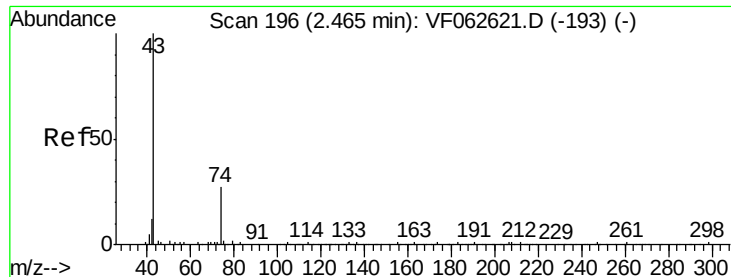
Tgt Ion: 43 Resp: 1227

Ion Ratio Lower Upper

43 100

58 30.1 22.6 33.8

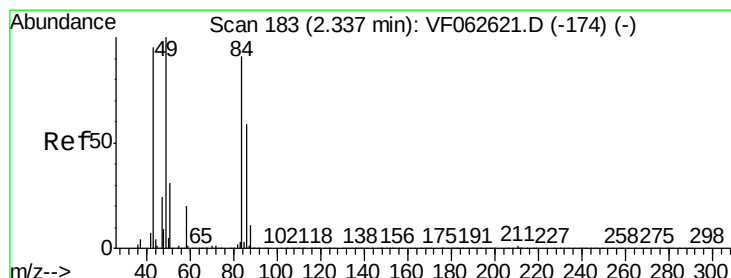
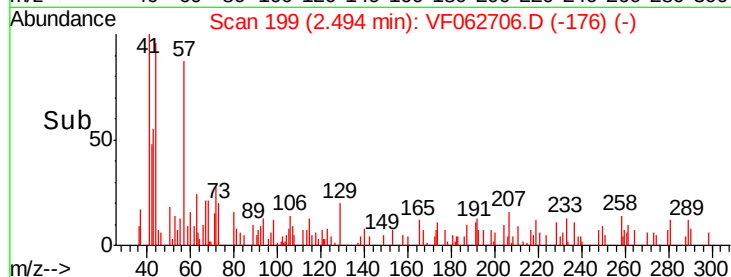
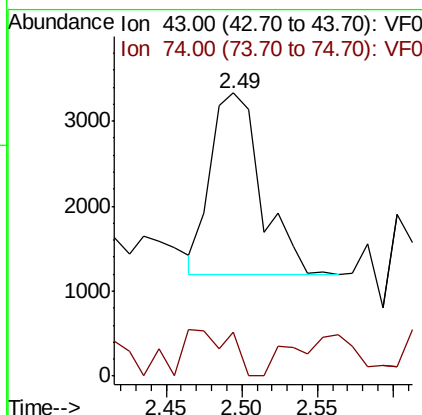
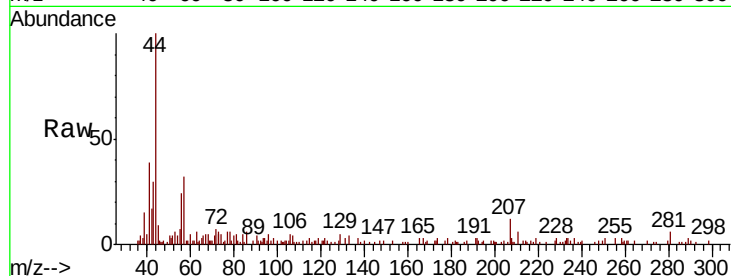




#18
Methyl Acetate
Concen: 3.608 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

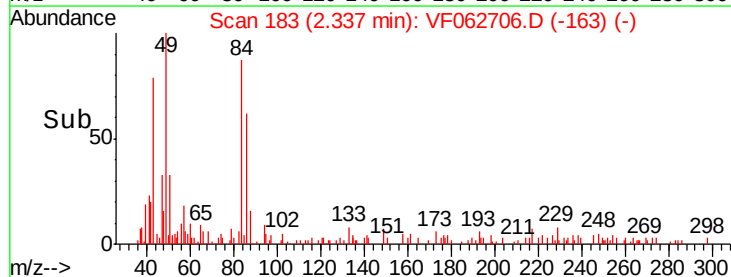
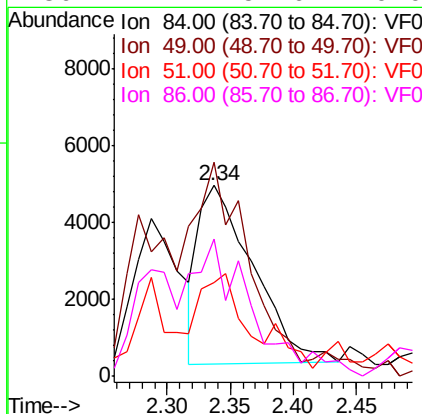
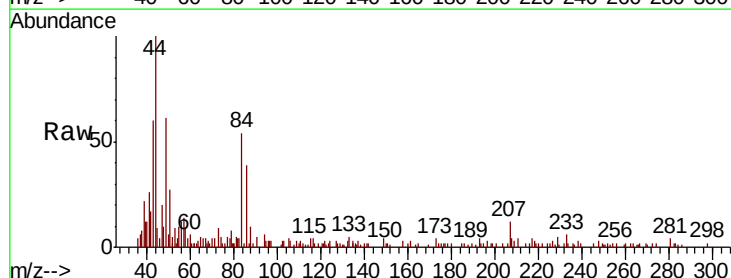
Instrument :
MSVOA_F
ClientSampleId :
TP-SOILRE

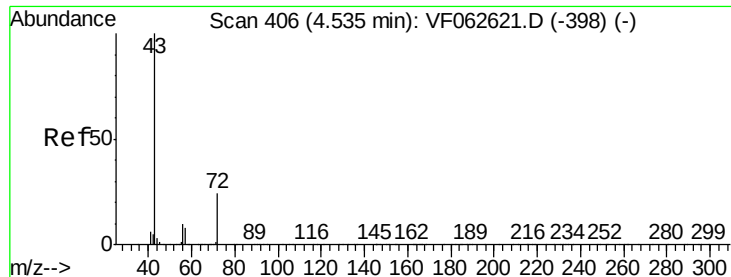
Tot Ion: 43 Resp: 4947
Ion Ratio Lower Upper
43 100
74 15.7 18.9 28.3#



#20
Methylene Chloride
Concen: 3.188 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

Tgt Ion: 84 Resp: 13946
Ion Ratio Lower Upper
84 100
49 112.3 89.8 134.8
51 53.7 28.4 42.6#
86 71.7 52.6 79.0

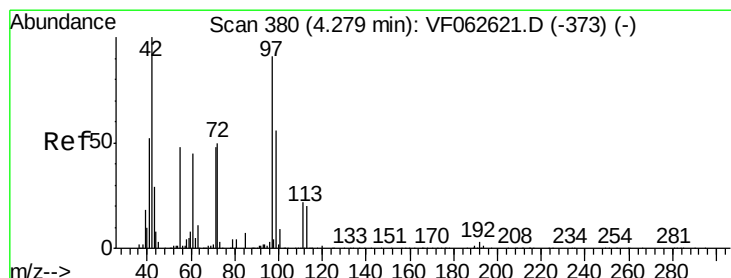
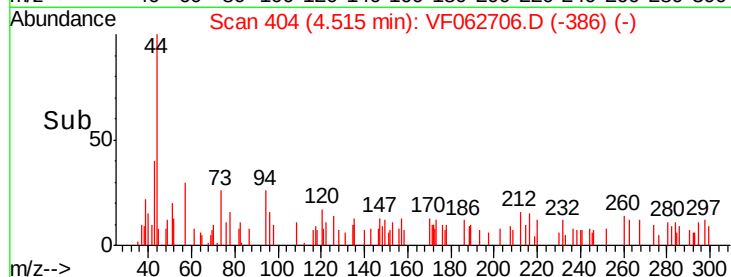
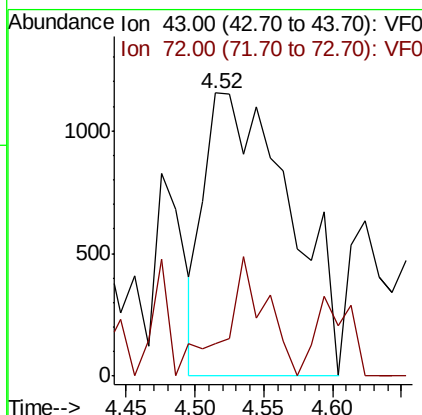
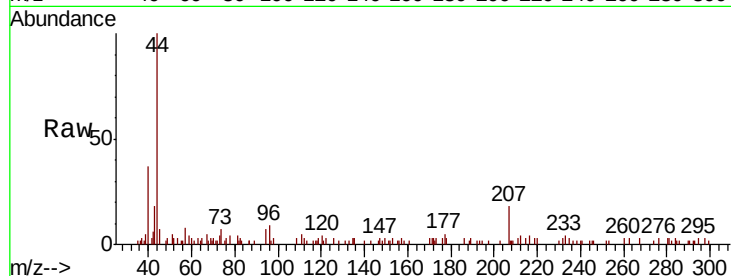




#25
2-Butanone
Concen: 2.665 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

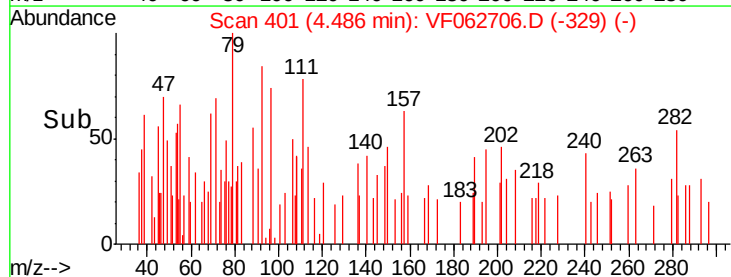
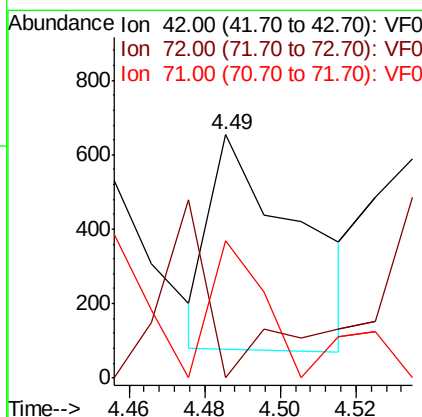
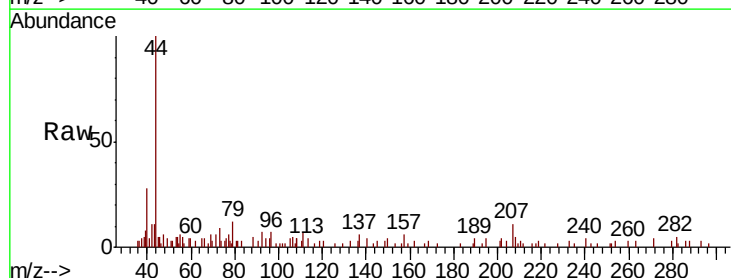
Instrument :
MSVOA_F
ClientSampleId :
TP-SOILRE

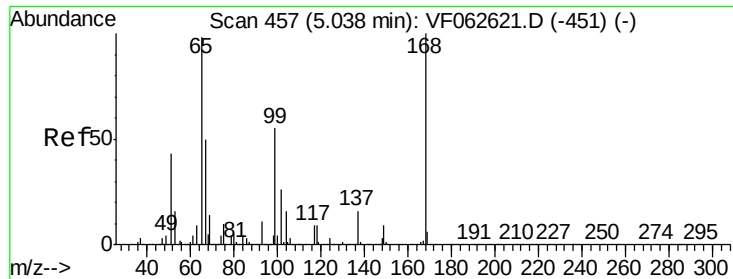
Tot Ion: 43 Resp: 4969
Ion Ratio Lower Upper
43 100
72 11.5 20.1 30.1#



#29
Tetrahydrofuran
Concen: 1.239 ug/l
RT: 4.49 min Scan# 401
Delta R.T. 0.21 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

Tgt Ion: 42 Resp: 935
Ion Ratio Lower Upper
42 100
72 54.9 38.2 57.2
71 52.8 35.8 53.6





#33

1,2-Dichloroethane-d4

Concen: 31.324 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

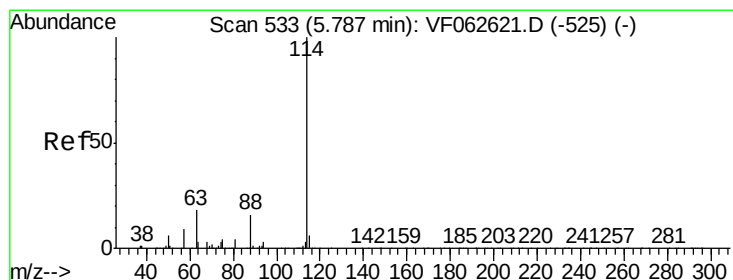
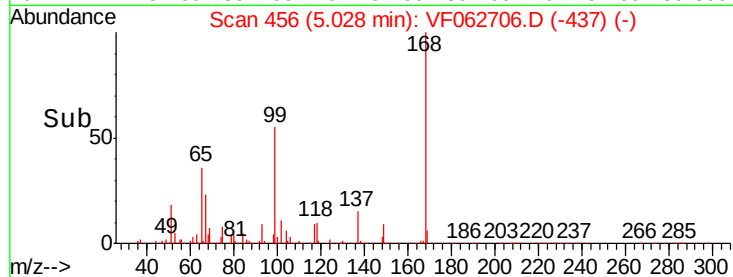
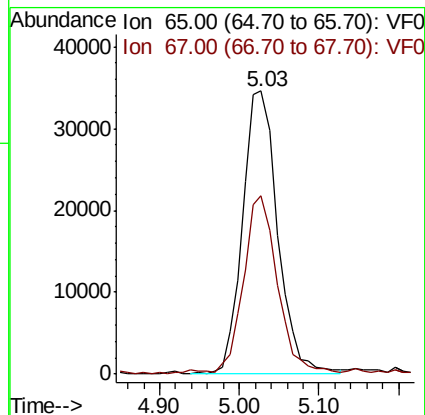
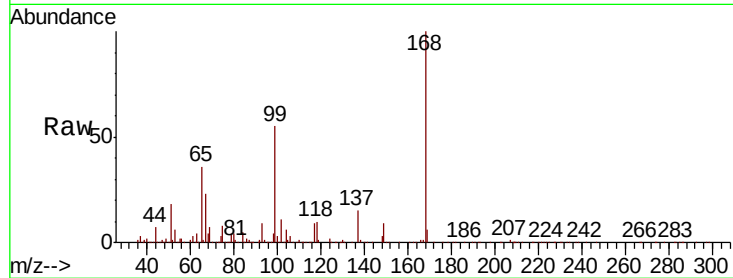
TP-SOILRE

Tot Ion: 65 Resp: 105363

Ion Ratio Lower Upper

65 100

67 63.1 0.0 117.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

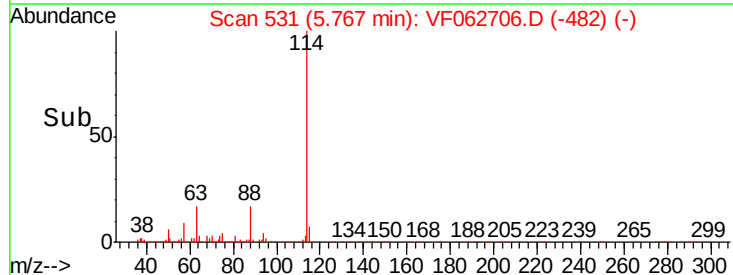
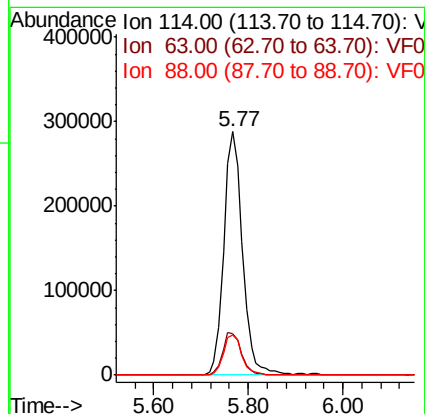
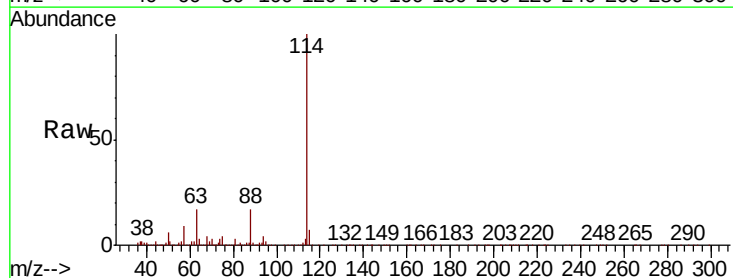
Tgt Ion: 114 Resp: 791474

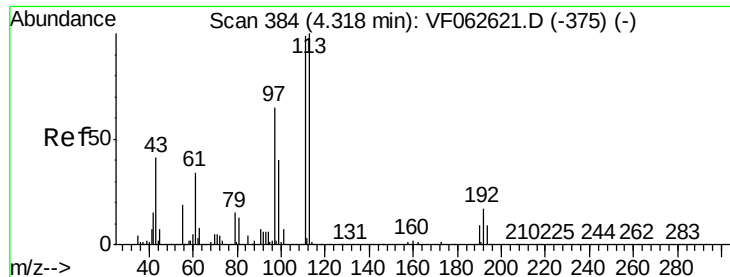
Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.4

88 16.6 0.0 32.4





#35

Dibromofluoromethane

Concen: 34.129 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

TP-SOILRE

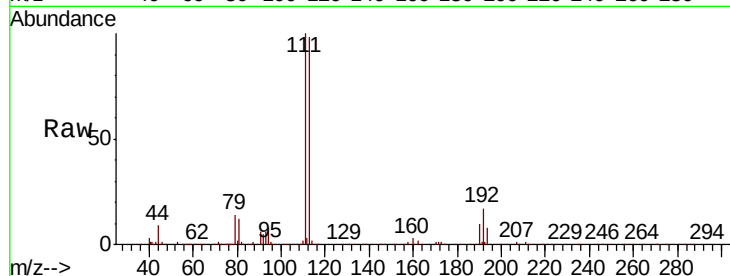
Tot Ion:113 Resp: 206700

Ion Ratio Lower Upper

113 100

111 101.7 79.4 119.2

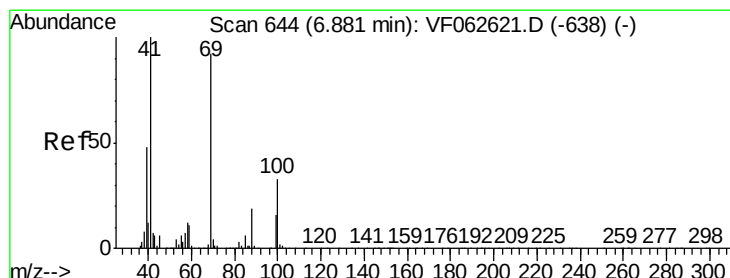
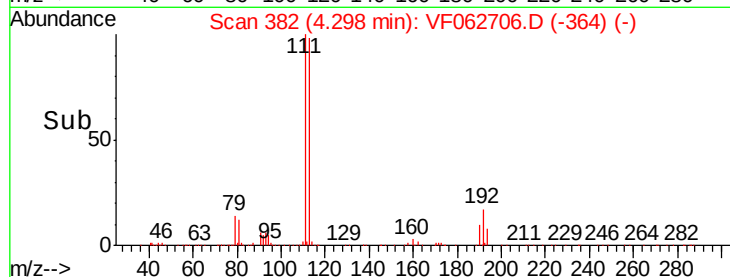
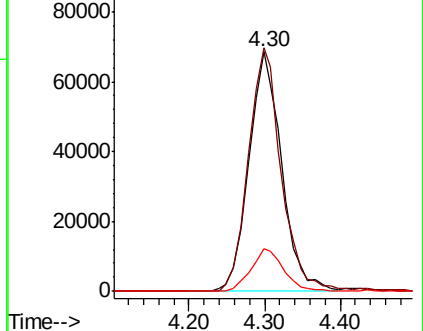
192 18.1 13.4 20.2



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 6.859 ug/l

RT: 6.58 min Scan# 613

Delta R.T. -0.31 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

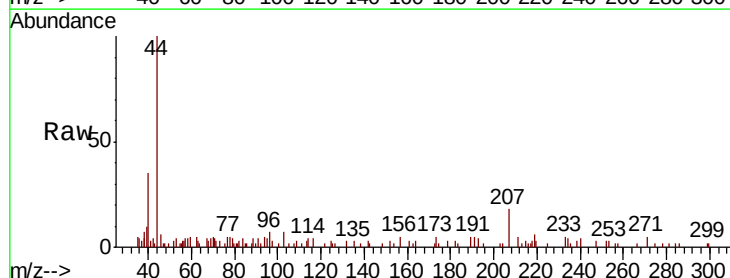
Tgt Ion: 88 Resp: 197

Ion Ratio Lower Upper

88 100

43 39.0 30.0 45.0

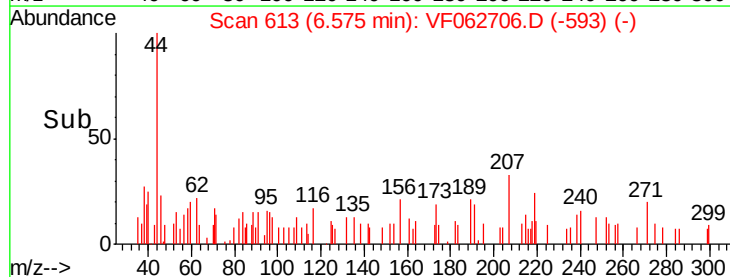
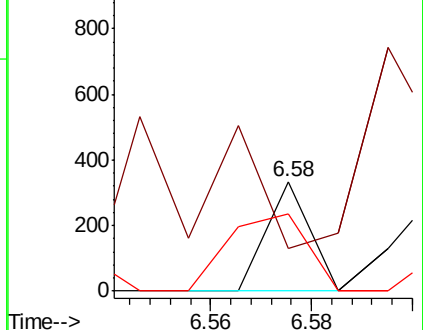
58 71.2 51.1 76.7

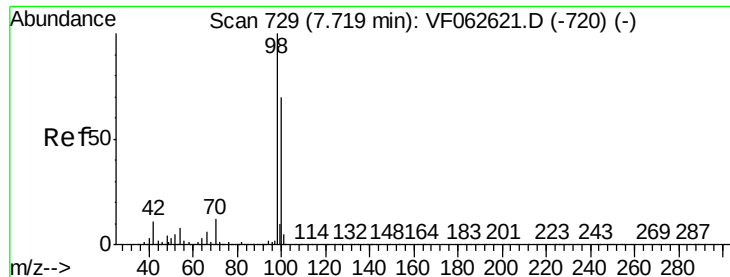


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

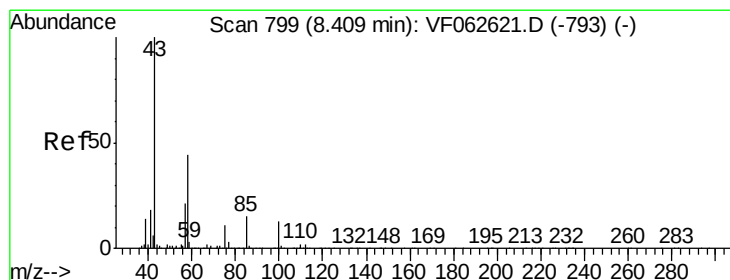
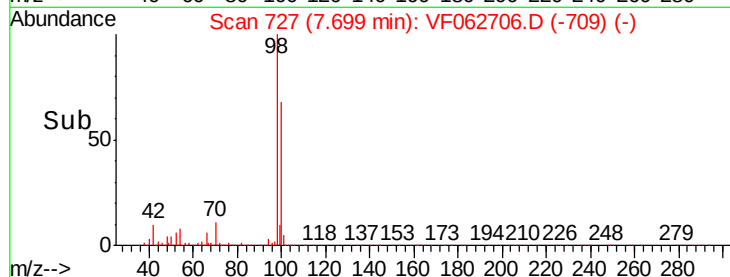
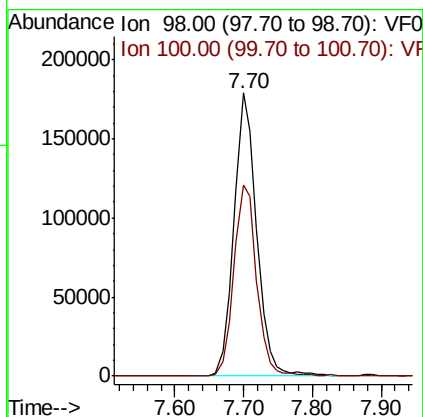
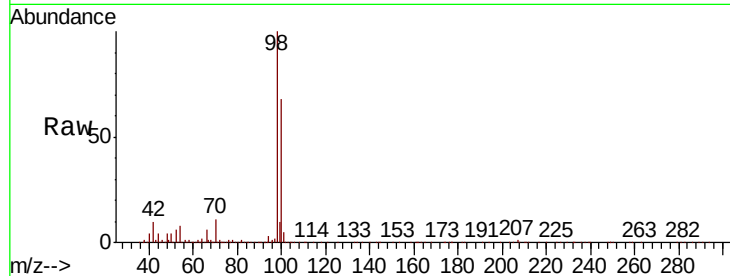




#50
Toluene-d8
Concen: 28.268 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

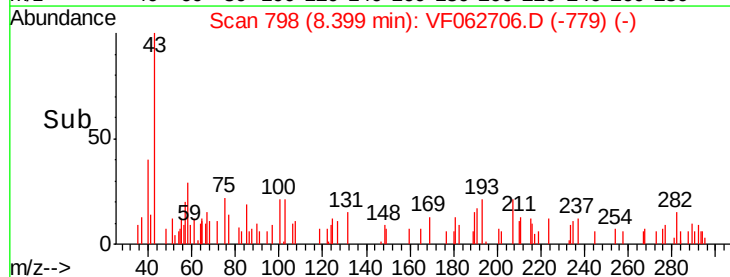
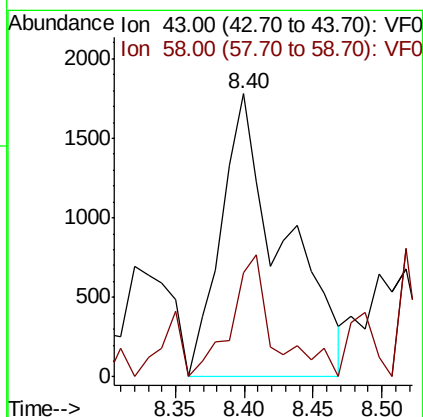
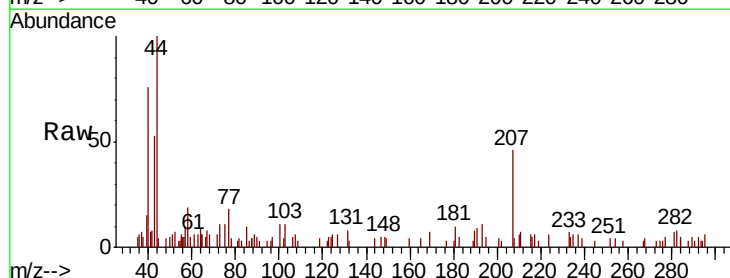
Instrument :
MSVOA_F
ClientSampleId :
TP-SOILRE

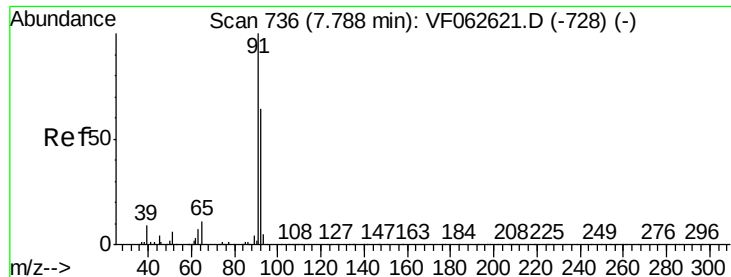
Tot Ion: 98 Resp: 408762
Ion Ratio Lower Upper
98 100
100 67.7 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 1.895 ug/l
RT: 8.40 min Scan# 798
Delta R.T. -0.01 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

Tgt Ion: 43 Resp: 5557
Ion Ratio Lower Upper
43 100
58 36.6 34.9 52.3





#52

Toluene

Concen: 5.406 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

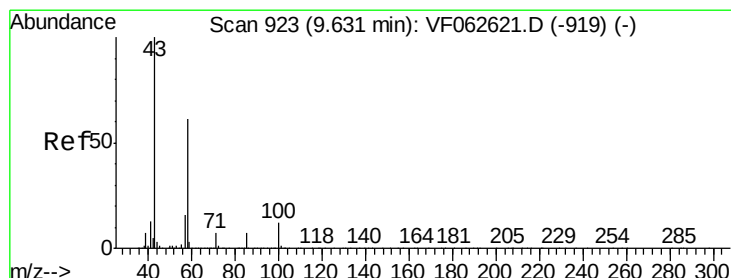
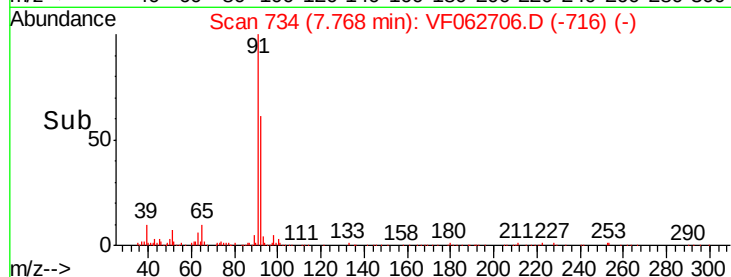
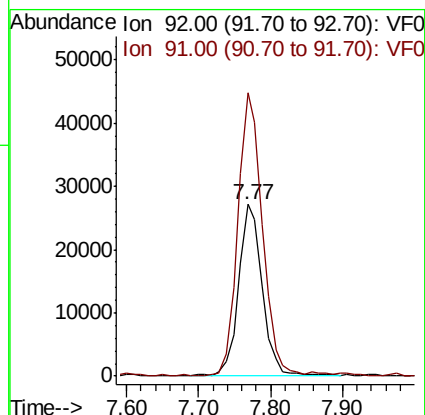
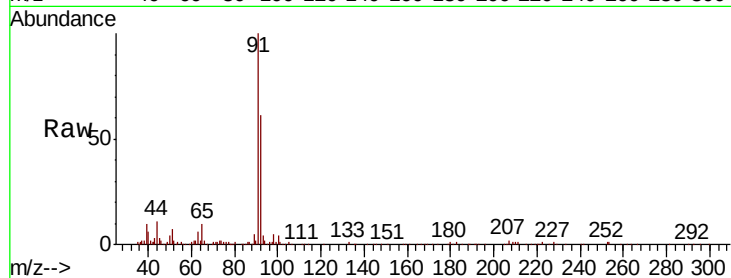
TP-SOILRE

Tot Ion: 92 Resp: 62644

Ion Ratio Lower Upper

92 100

91 164.6 125.4 188.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF062706.D

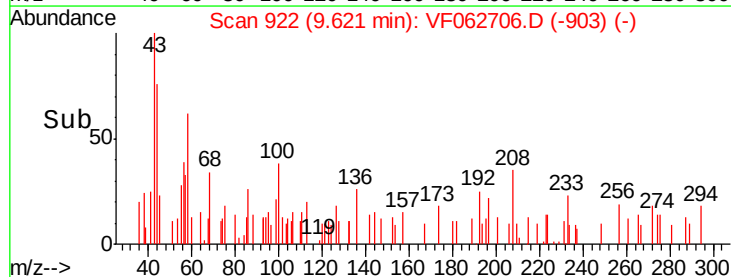
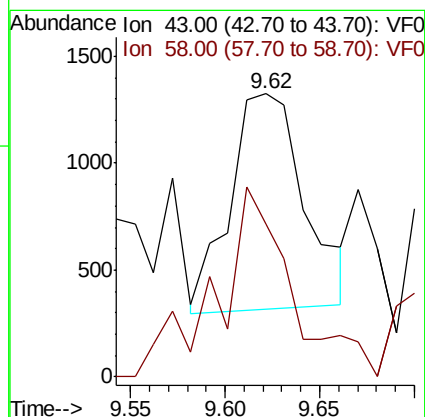
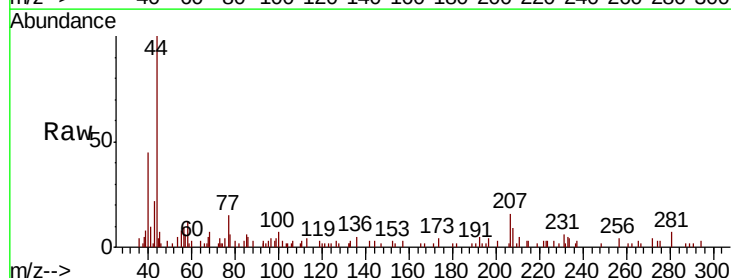
Acq: 22 May 2019 15:25

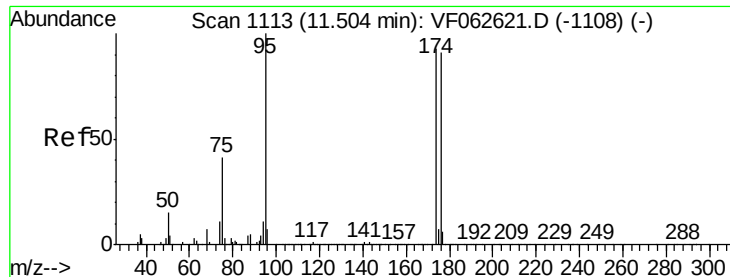
Tgt Ion: 43 Resp: 2754

Ion Ratio Lower Upper

43 100

58 54.0 28.1 84.4





#62

4-Bromofluorobenzene

Concen: 22.902 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

Instrument :

MSVOA_F

ClientSampleId :

TP-SOILRE

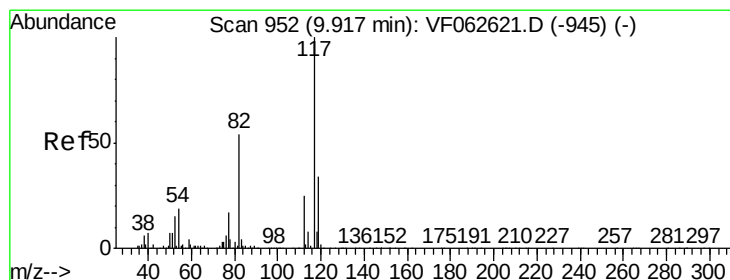
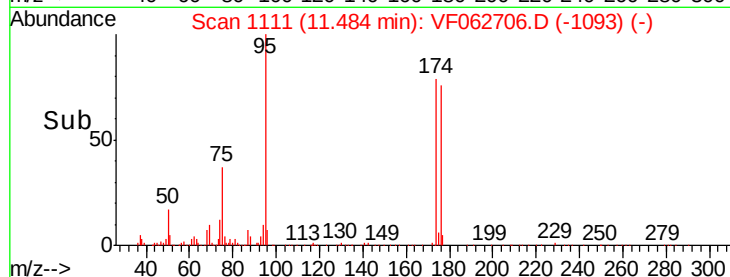
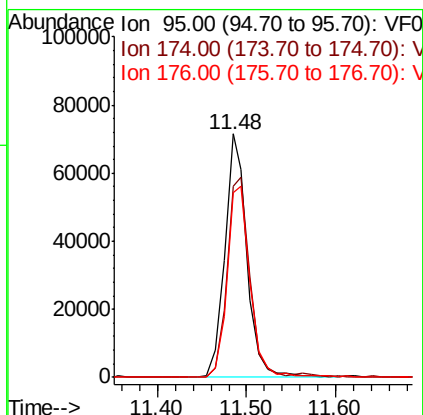
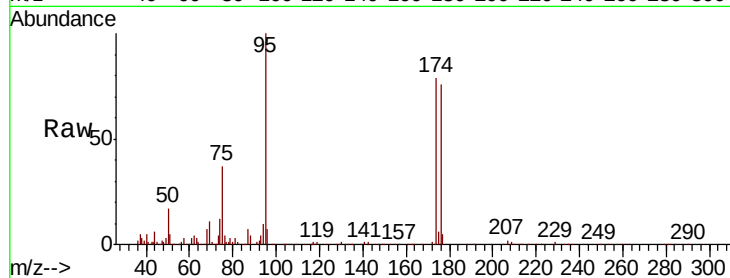
Tot Ion: 95 Resp: 125605

Ion Ratio Lower Upper

95 100

174 78.5 0.0 185.6

176 75.8 0.0 182.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062706.D

Acq: 22 May 2019 15:25

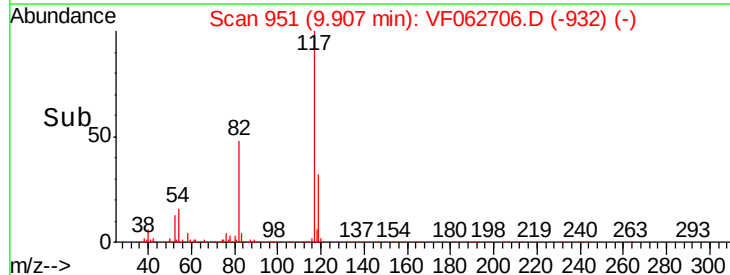
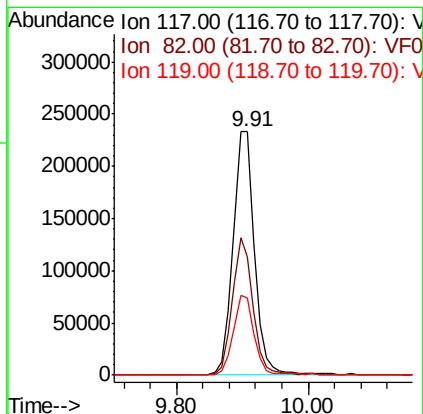
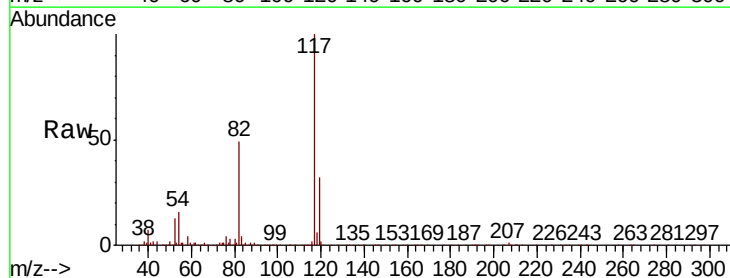
Tgt Ion: 117 Resp: 538999

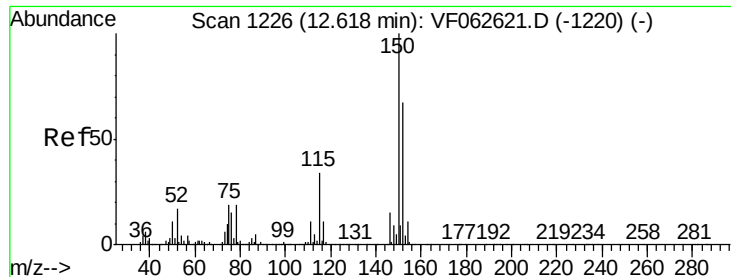
Ion Ratio Lower Upper

117 100

82 48.6 43.3 64.9

119 31.7 27.4 41.0



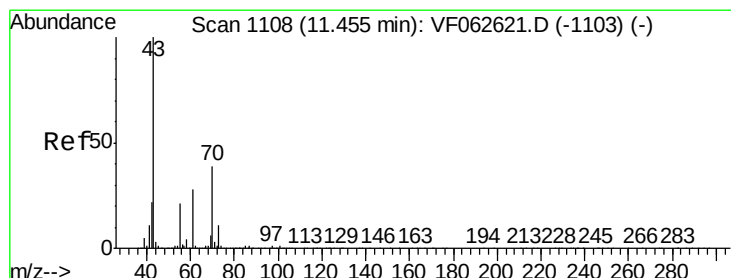
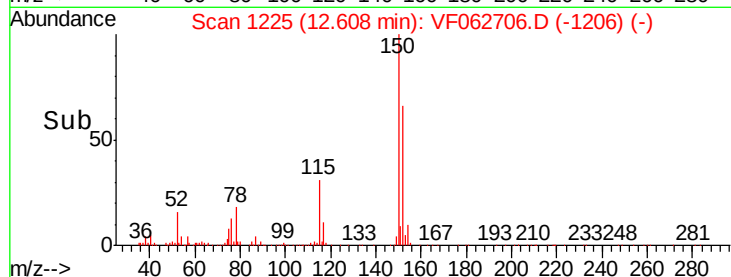
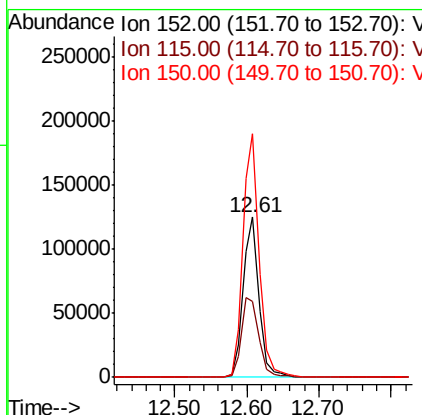
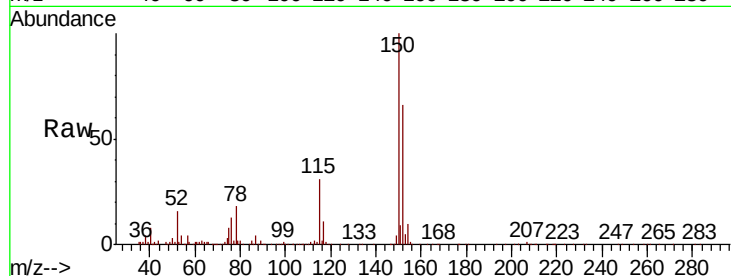


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

Instrument :
MSVOA_F
ClientSampleId :
TP-SOILRE

Tot Ion	Ratio	Lower	Upper
152	100		
115	47.7	25.2	75.6
150	151.9	0.0	306.2



#74

N-amil acetate
Concen: Below Cal
RT: 11.44 min Scan# 1107
Delta R.T. -0.01 min
Lab File: VF062706.D
Acq: 22 May 2019 15:25

Tgt Ion	Ratio	Lower	Upper
43	100		
70	49.6	30.9	46.3#
55	55.6	17.0	25.4#
61	0.0	22.6	34.0#

