

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061718.D
 Acq On : 22 Feb 2019 19:52
 Operator : VA/AP
 Sample : K1597-15RE
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-23RE

Quant Time: Feb 23 01:47:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	349021	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	531883	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	413553	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	212043	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	115963	45.31	ug/l	-0.04
Spiked Amount			Recovery	=	90.62%	
35) Dibromofluoromethane	4.09	113	167810	42.49	ug/l	-0.03
Spiked Amount			Recovery	=	84.98%	
50) Toluene-d8	7.53	98	414001	36.46	ug/l	-0.03
Spiked Amount			Recovery	=	72.92%	
62) 4-Bromofluorobenzene	11.39	95	155043	33.75	ug/l	-0.02
Spiked Amount			Recovery	=	67.50%	

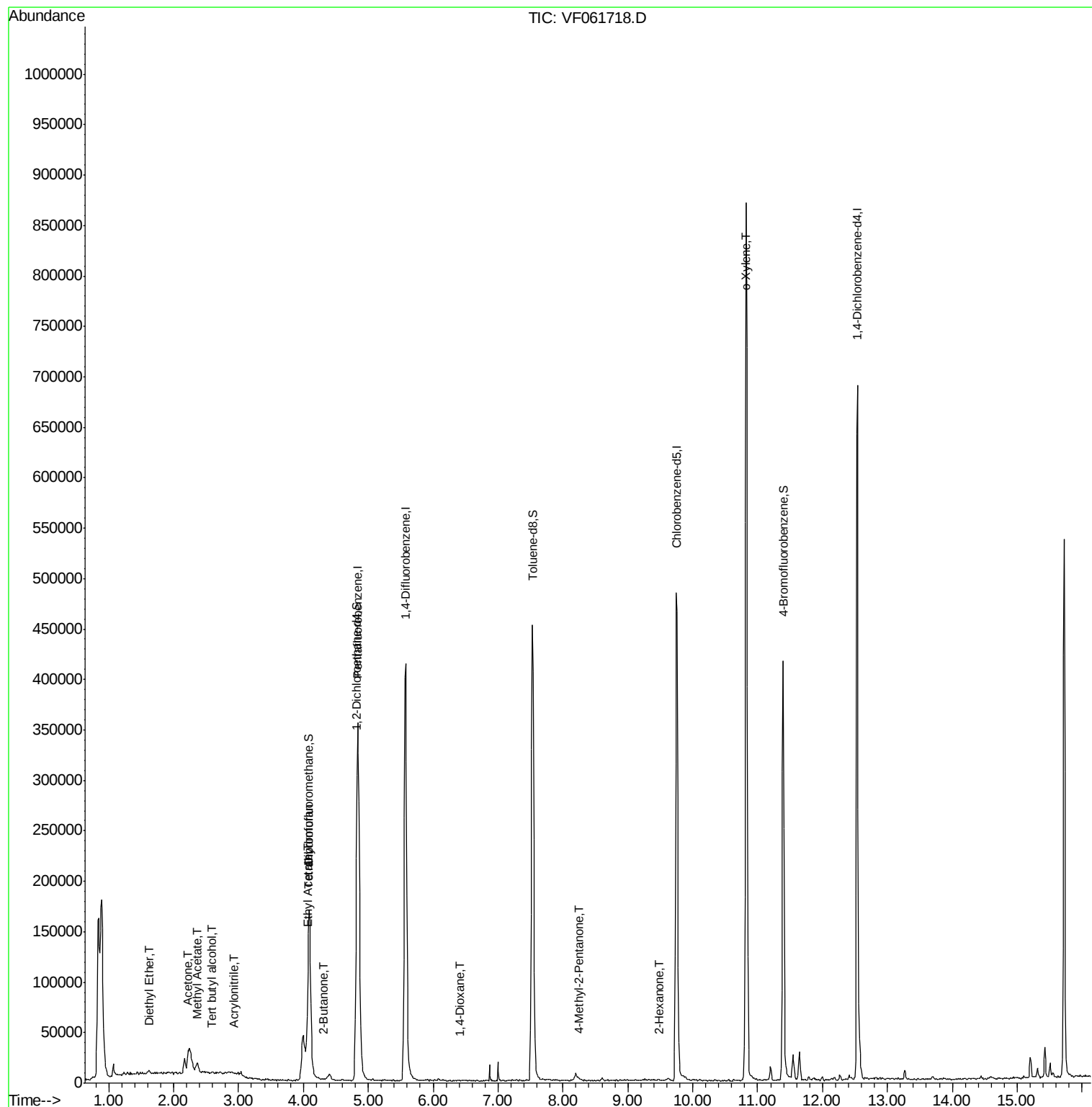
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	1573	1.324	ug/l	91
11) Tert butyl alcohol	2.58	59	641	4.327	ug/l #	21
15) Acrylonitrile	2.94	53	831	1.582	ug/l #	69
16) Acetone	2.22	43	25070	45.653	ug/l	90
18) Methyl Acetate	2.35	43	8117	6.561	ug/l #	59
25) 2-Butanone	4.31	43	2064	1.721	ug/l #	85
29) Tetrahydrofuran	4.07	42	10192	18.695	ug/l	94
37) Ethyl Acetate	4.06	43	3934	1.607	ug/l #	42
49) 1,4-Dioxane	6.40	88	89	5.431	ug/l #	20
51) 4-Methyl-2-Pentanone	8.25	43	3259	1.574	ug/l	95
59) 2-Hexanone	9.48	43	1502	1.035	ug/l #	23
69) o-Xylene	10.82	106	10480	1.839	ug/l #	1

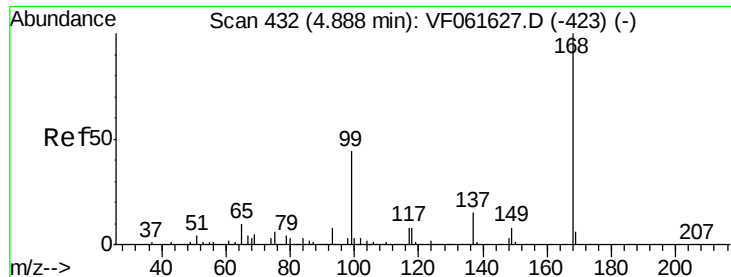
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

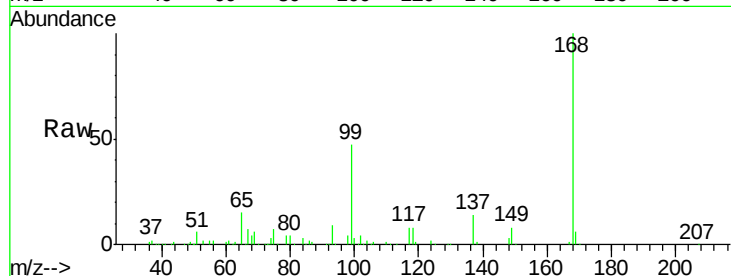
TP-23RE

Tot Ion:168 Resp: 349021

Ion Ratio Lower Upper

168 100

99 47.0 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

120000

100000

80000

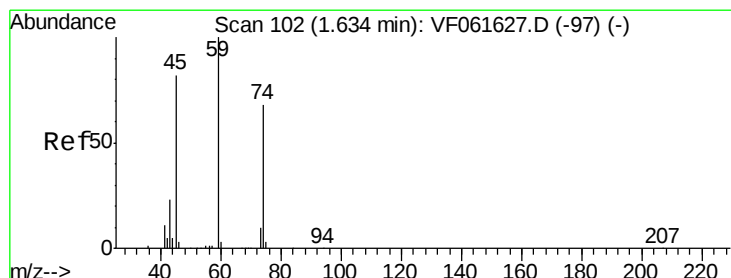
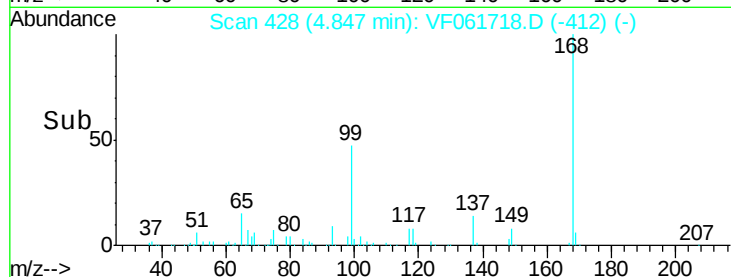
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.324 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061718.D

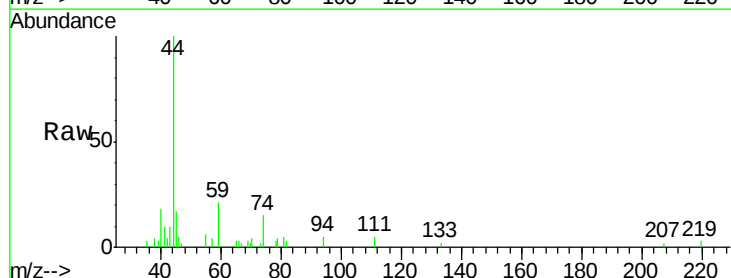
Acq: 22 Feb 2019 19:52

Tgt Ion: 74 Resp: 1573

Ion Ratio Lower Upper

74 100

45 111.9 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.62

800

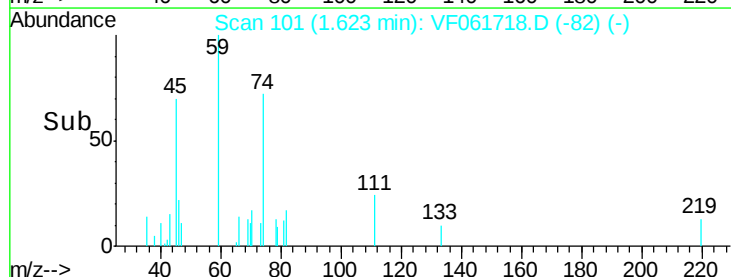
600

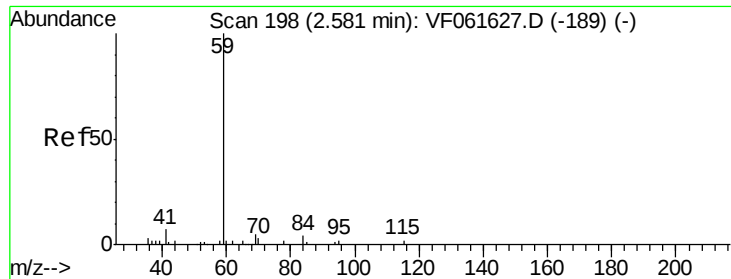
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200

0

Time-->



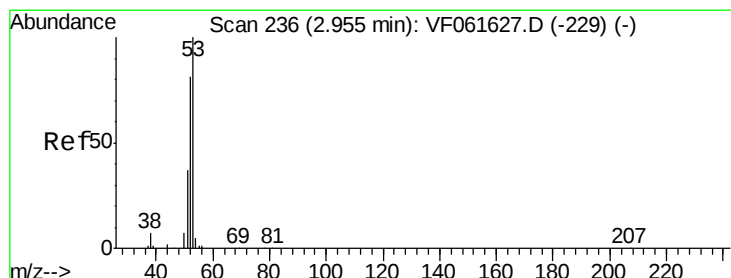
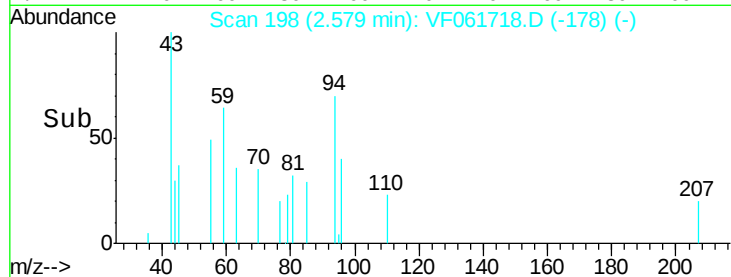
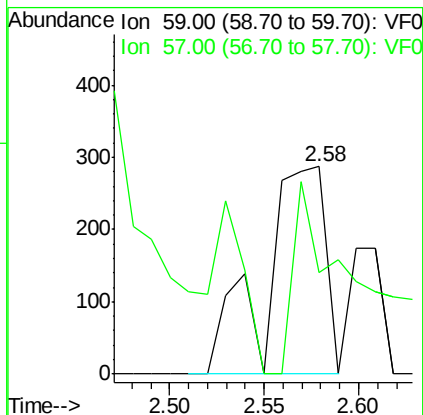
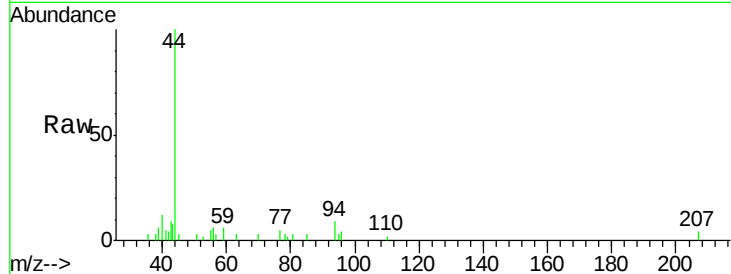


#11

Tert butyl alcohol
 Concen: 4.327 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF061718.D
 Acq: 22 Feb 2019 19:52

Instrument :
 MSVOA_F
 ClientSampled :
 TP-23RE

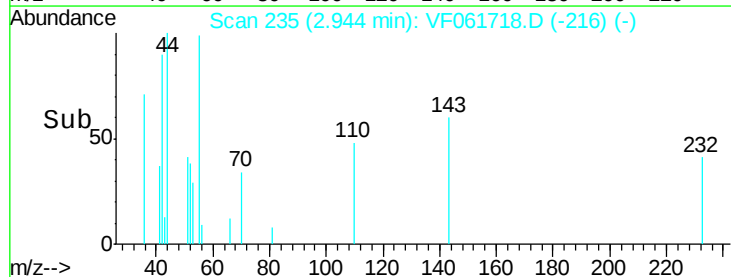
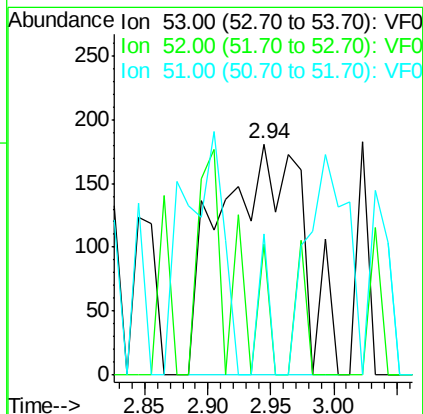
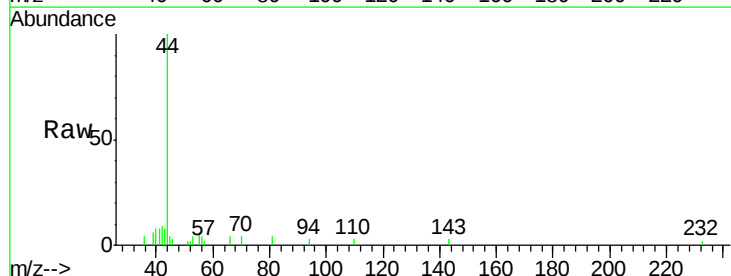
Tot Ion: 59 Resp: 641
 Ion Ratio Lower Upper
 59 100
 57 48.8 12.5 18.7#

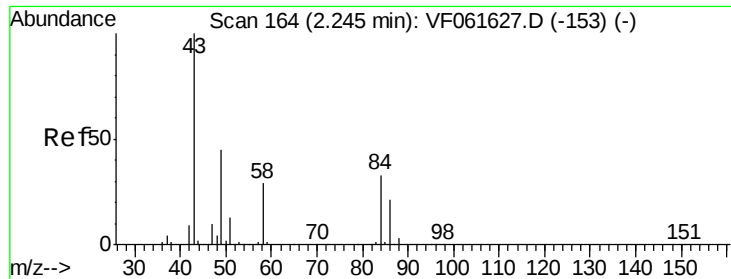


#15

Acrylonitrile
 Concen: 1.582 ug/l
 RT: 2.94 min Scan# 235
 Delta R.T. -0.01 min
 Lab File: VF061718.D
 Acq: 22 Feb 2019 19:52

Tgt Ion: 53 Resp: 831
 Ion Ratio Lower Upper
 53 100
 52 56.4 64.6 97.0#
 51 60.8 29.8 44.8#





#16

Acetone

Concen: 45.653 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

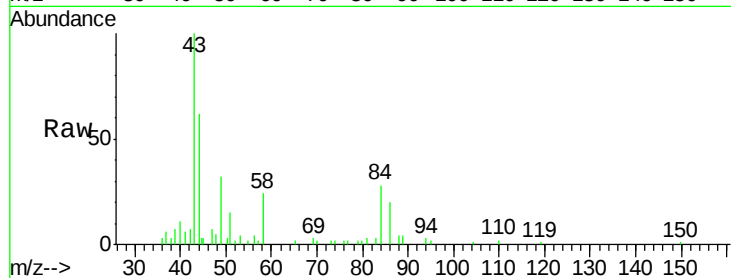
TP-23RE

Tot Ion: 43 Resp: 25070

Ion Ratio Lower Upper

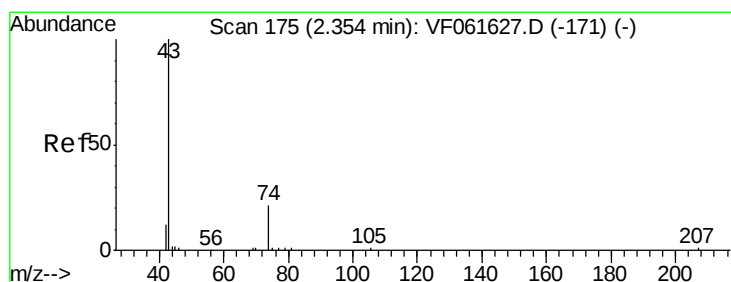
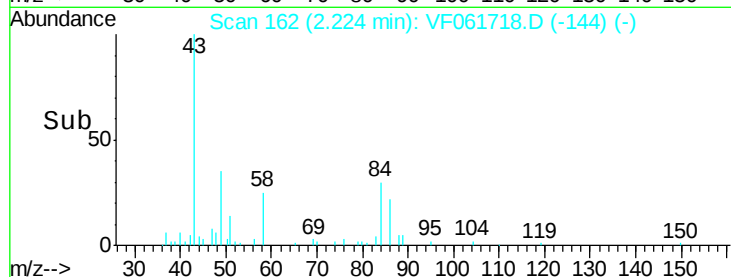
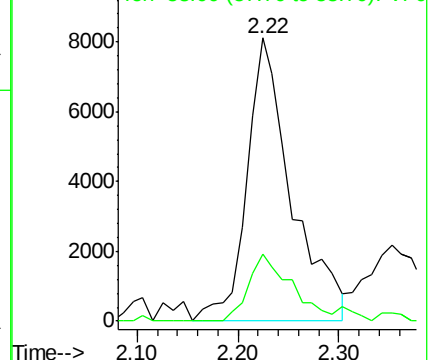
43 100

58 23.5 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 6.561 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF061718.D

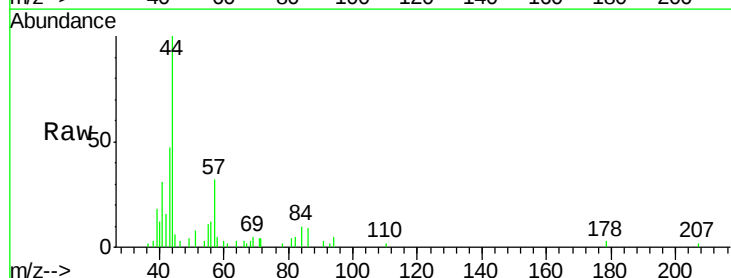
Acq: 22 Feb 2019 19:52

Tgt Ion: 43 Resp: 8117

Ion Ratio Lower Upper

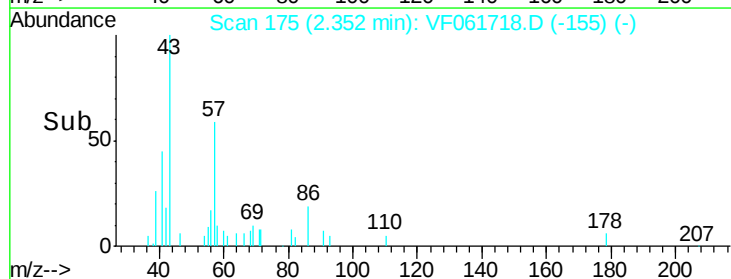
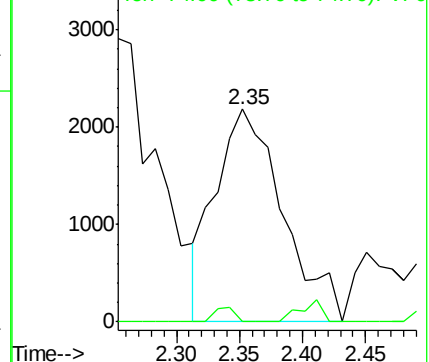
43 100

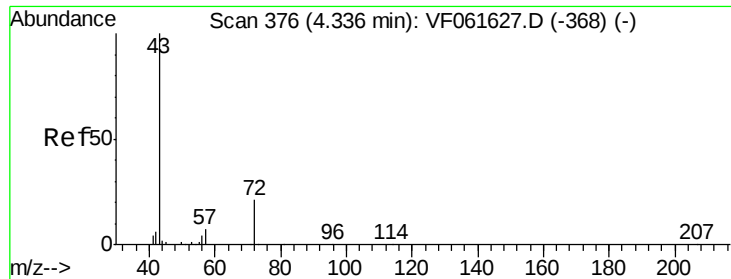
74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 1.721 ug/l

RT: 4.31 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

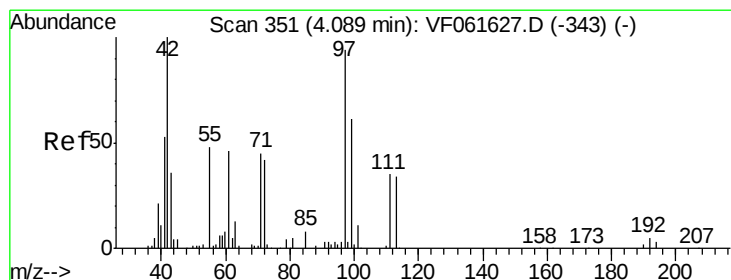
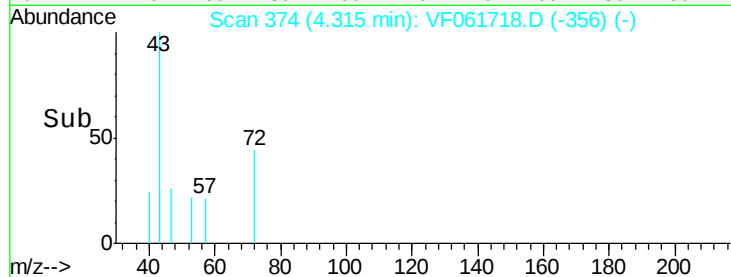
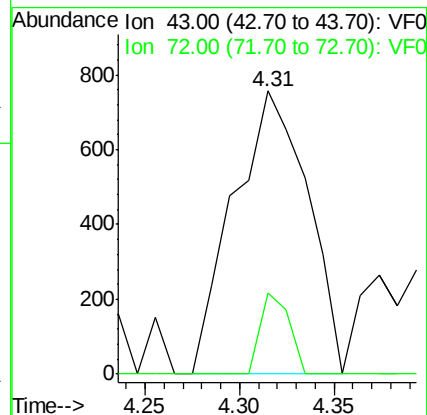
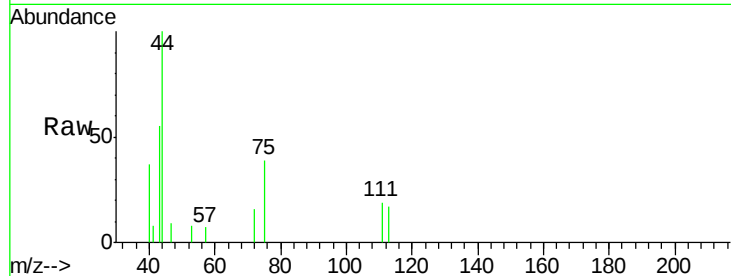
TP-23RE

Tot Ion: 43 Resp: 2064

Ion Ratio Lower Upper

43 100

72 28.4 17.1 25.7#



#29

Tetrahydrofuran

Concen: 18.695 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

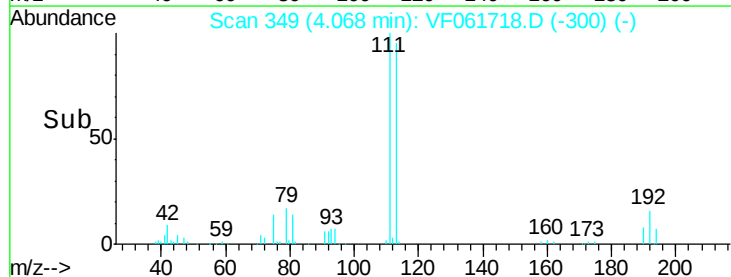
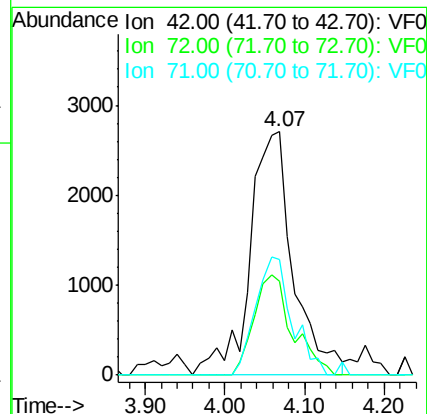
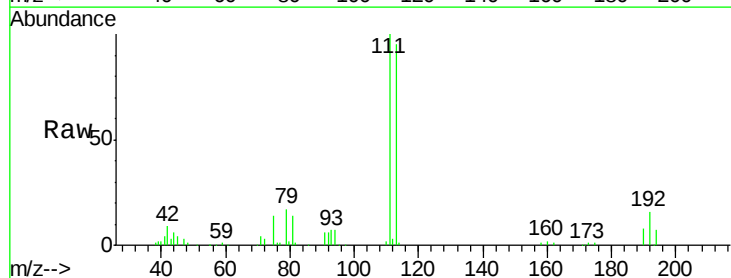
Tgt Ion: 42 Resp: 10192

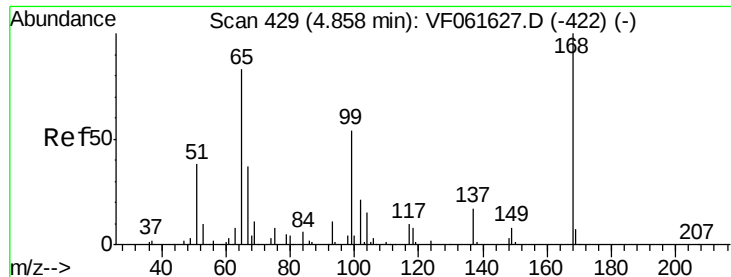
Ion Ratio Lower Upper

42 100

72 36.5 35.2 52.8

71 40.7 32.9 49.3

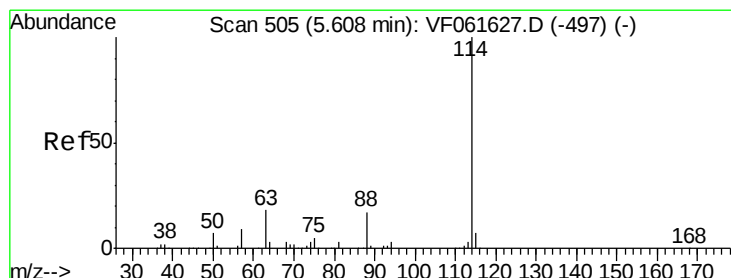
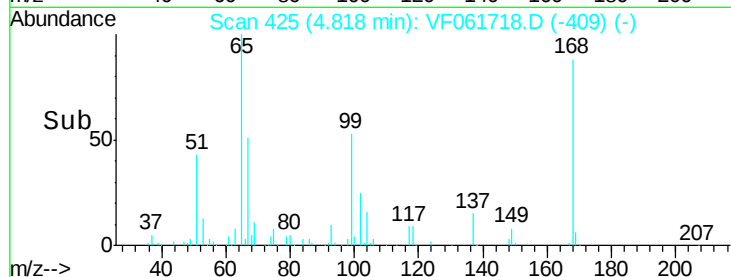
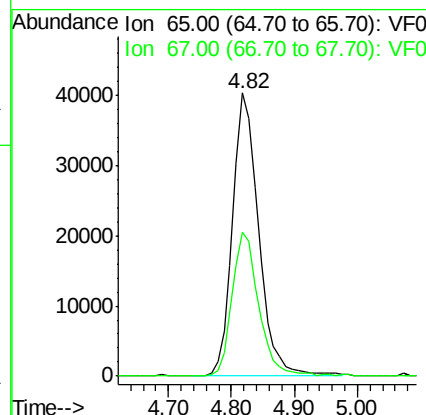
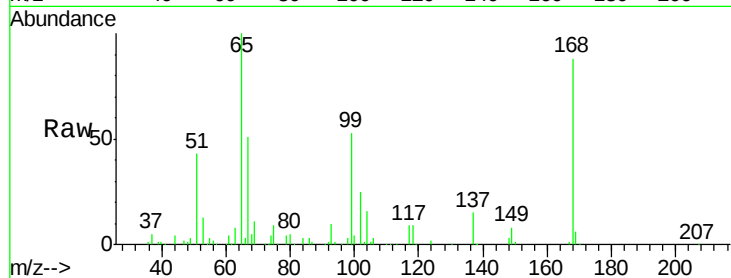




#33
 1,2-Dichloroethane-d4
 Concen: 45.308 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF061718.D
 Acq: 22 Feb 2019 19:52

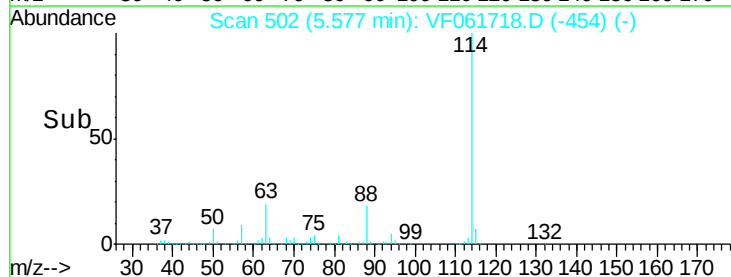
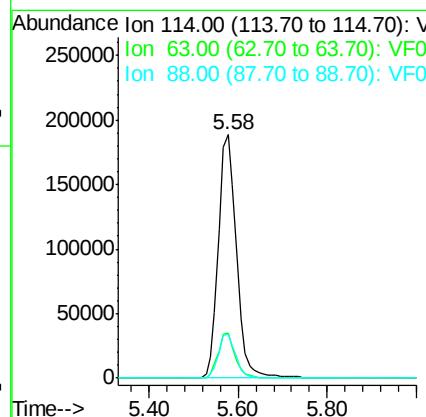
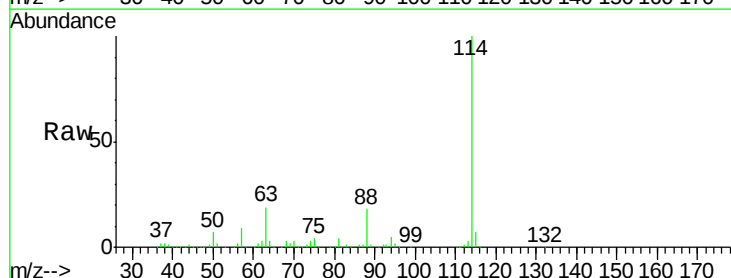
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-23RE

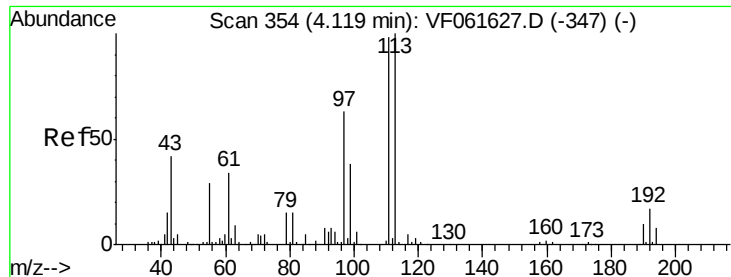
Tot Ion: 65 Resp: 115963
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061718.D
 Acq: 22 Feb 2019 19:52

Tgt Ion: 114 Resp: 531883
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.6
 88 17.8 0.0 34.4

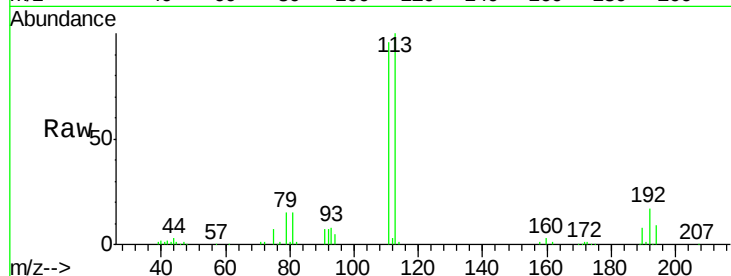




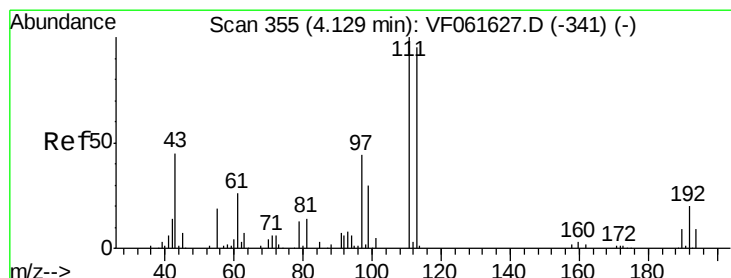
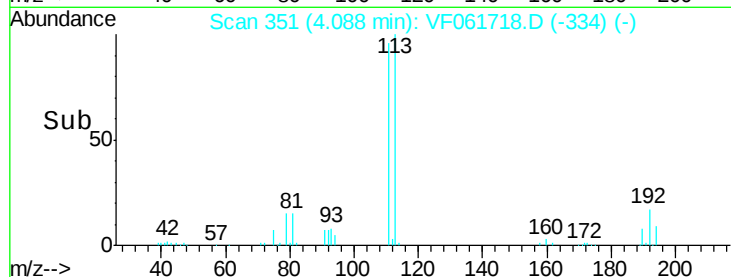
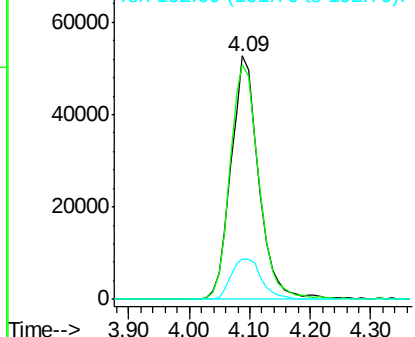
#35
Dibromofluoromethane
Concen: 42.486 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF061718.D
Acq: 22 Feb 2019 19:52

Instrument :
MSVOA_F
ClientSampleId :
TP-23RE

Tot Ion:113 Resp: 167810
Ion Ratio Lower Upper
113 100
111 96.1 78.8 118.2
192 16.6 13.4 20.0

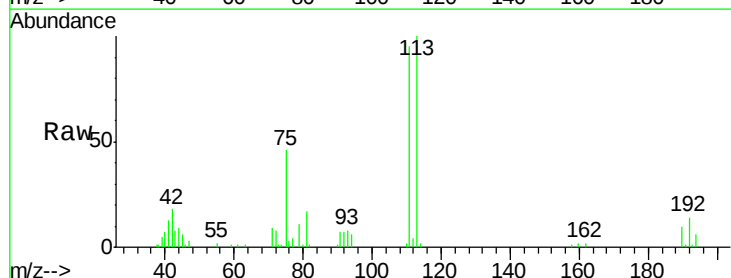


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

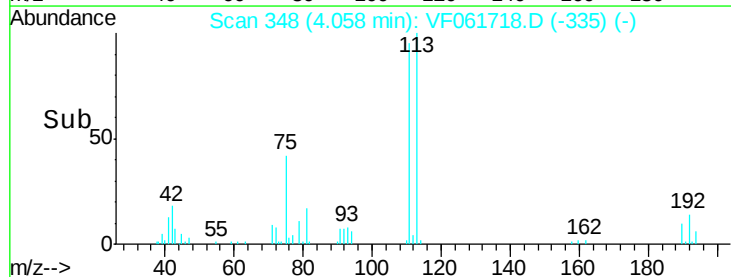
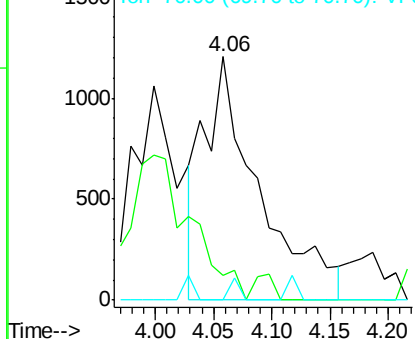


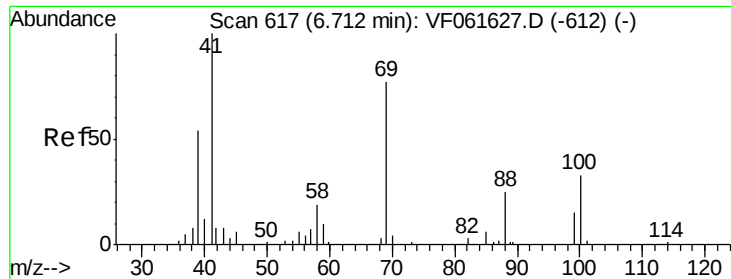
#37
Ethyl Acetate
Concen: 1.607 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.07 min
Lab File: VF061718.D
Acq: 22 Feb 2019 19:52

Tgt Ion: 43 Resp: 3934
Ion Ratio Lower Upper
43 100
61 10.2 45.7 68.5#
70 0.0 8.5 12.7#



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





#49

1,4-Dioxane

Concen: 5.431 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.32 min

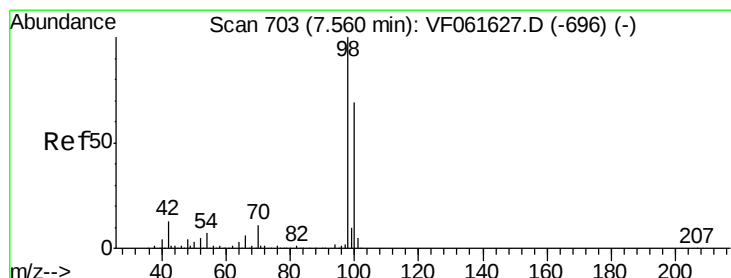
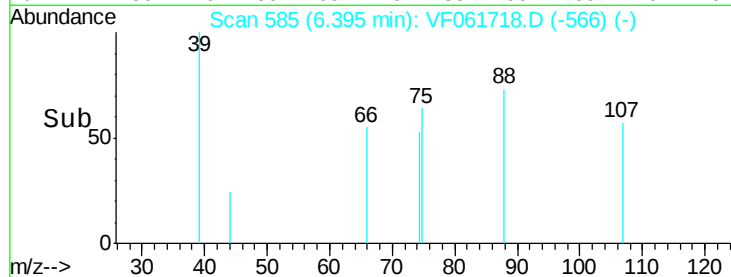
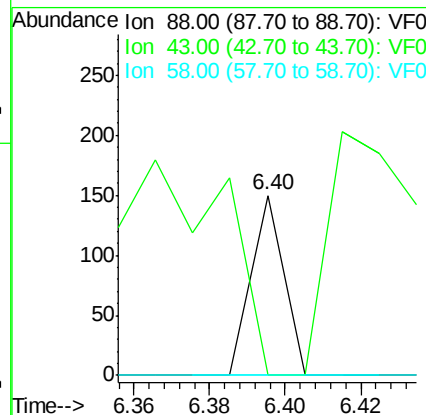
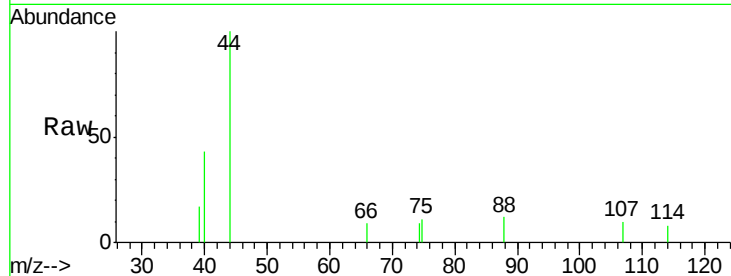
Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :
MSVOA_F
ClientSampled :
TP-23RE

Tot Ion: 88 Resp: 89

Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.3	48.5#
58	0.0	59.4	89.2#



#50

Toluene-d8

Concen: 36.461 ug/l

RT: 7.53 min Scan# 700

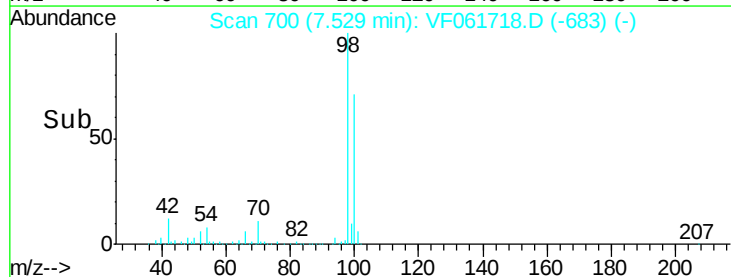
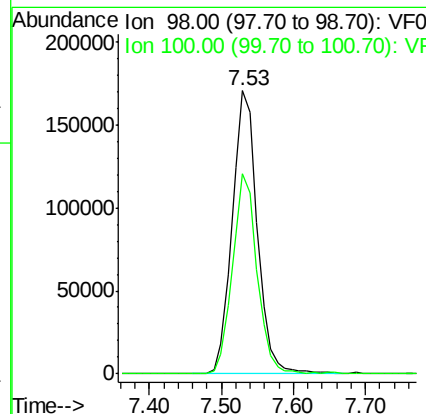
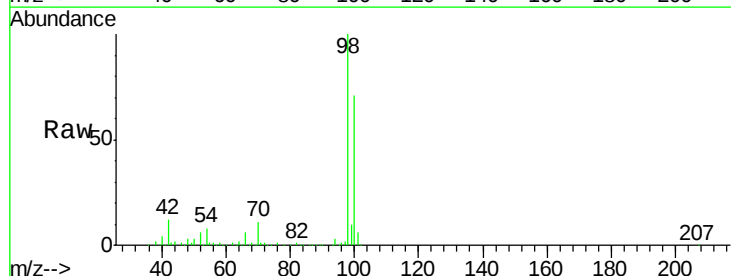
Delta R.T. -0.03 min

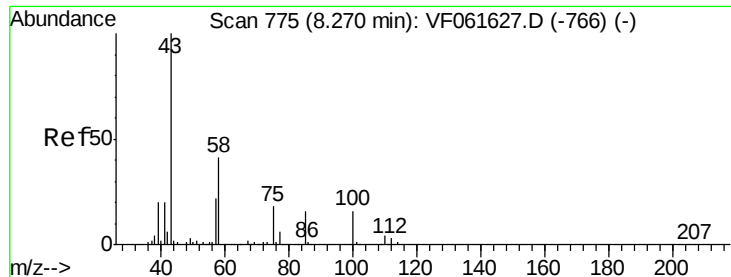
Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Tgt Ion: 98 Resp: 414001

Ion	Ratio	Lower	Upper
98	100		
100	70.5	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 1.574 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :

MSVOA_F

ClientSampled :

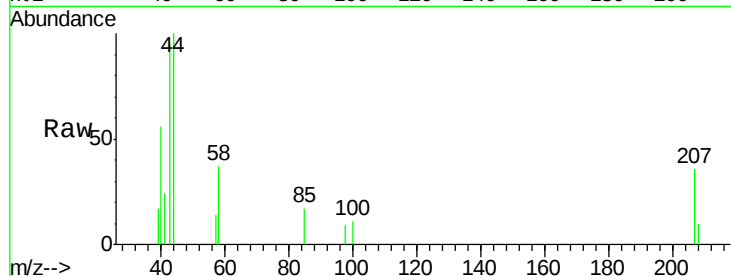
TP-23RE

Tot Ion: 43 Resp: 3259

Ion Ratio Lower Upper

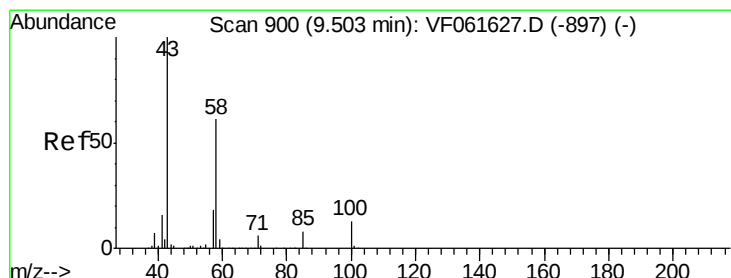
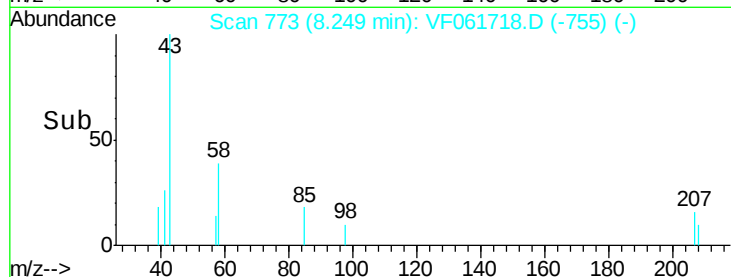
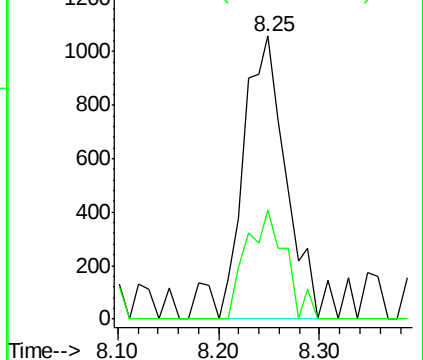
43 100

58 38.6 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.035 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.02 min

Lab File: VF061718.D

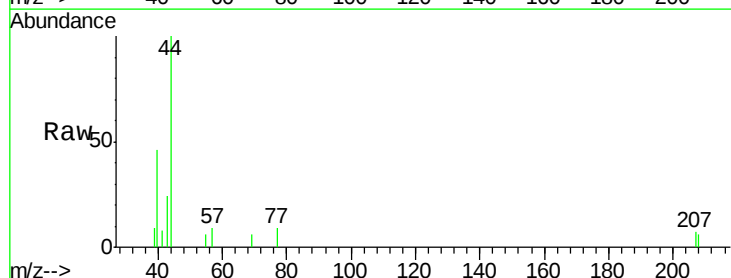
Acq: 22 Feb 2019 19:52

Tgt Ion: 43 Resp: 1502

Ion Ratio Lower Upper

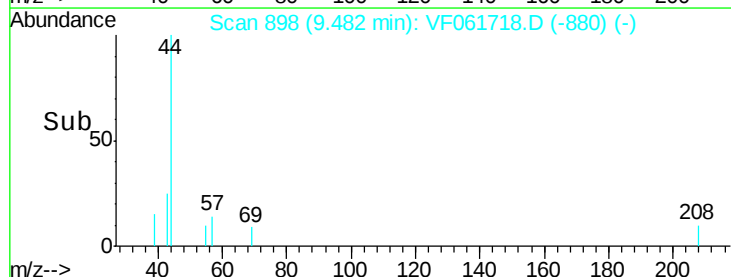
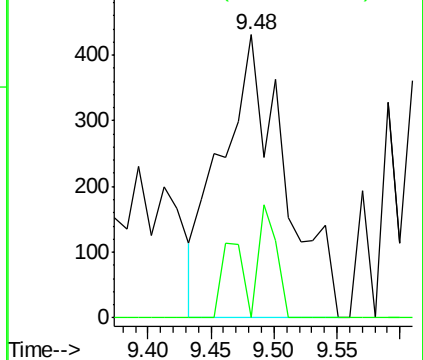
43 100

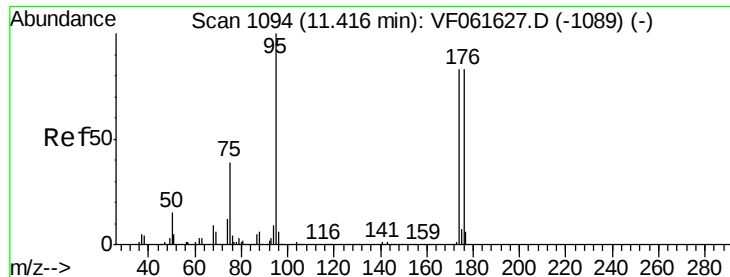
58 0.0 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 33.747 ug/l

RT: 11.39 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

Instrument :

MSVOA_F

ClientSampleId :

TP-23RE

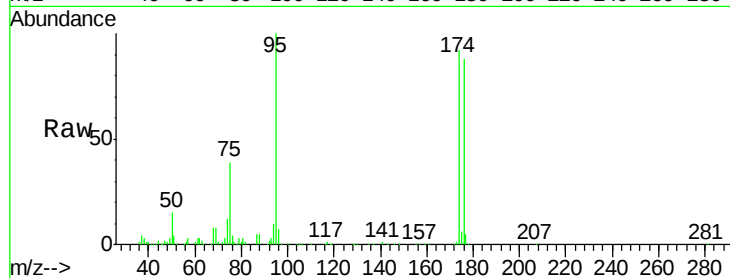
Tot Ion: 95 Resp: 155043

Ion Ratio Lower Upper

95 100

174 92.3 0.0 165.8

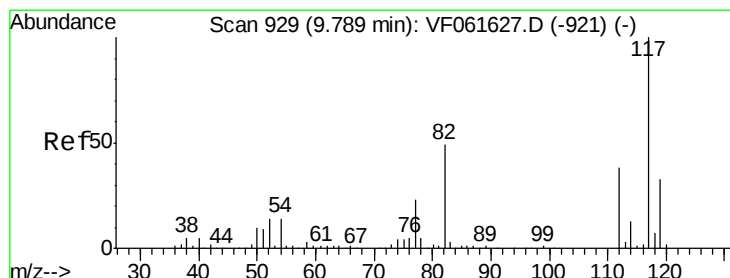
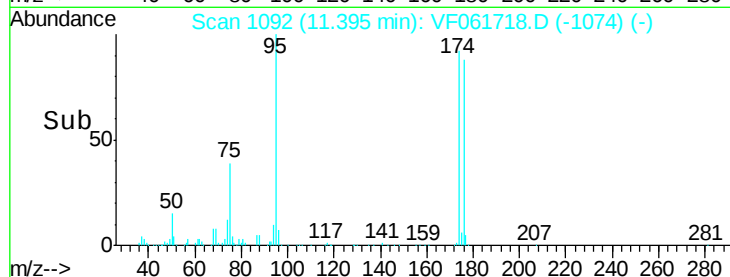
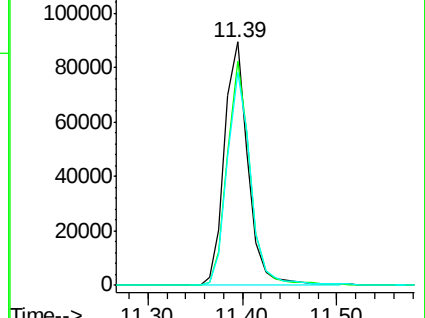
176 87.6 0.0 167.0



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: 9.75 min Scan# 925

Delta R.T. -0.04 min

Lab File: VF061718.D

Acq: 22 Feb 2019 19:52

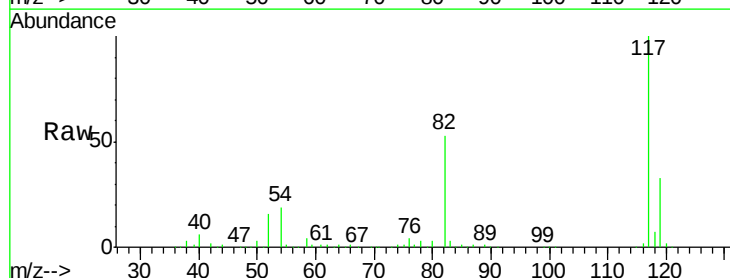
Tgt Ion: 117 Resp: 413553

Ion Ratio Lower Upper

117 100

82 52.6 39.3 58.9

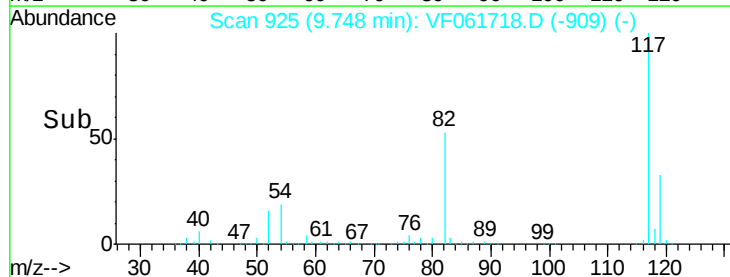
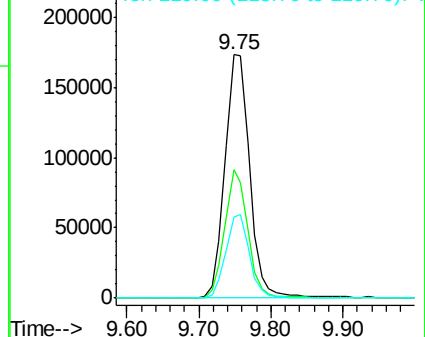
119 33.3 26.6 40.0

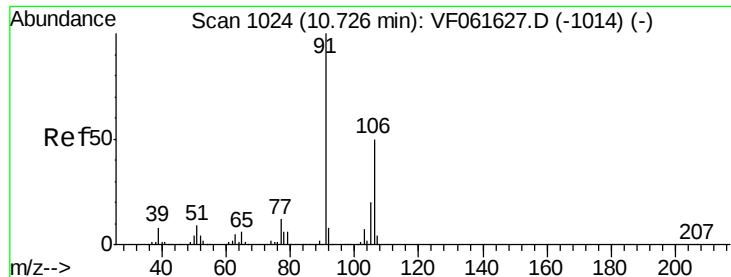


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

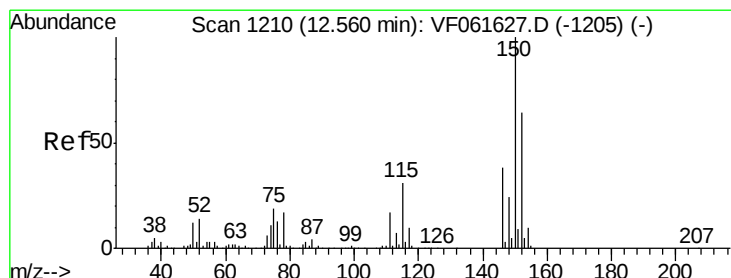
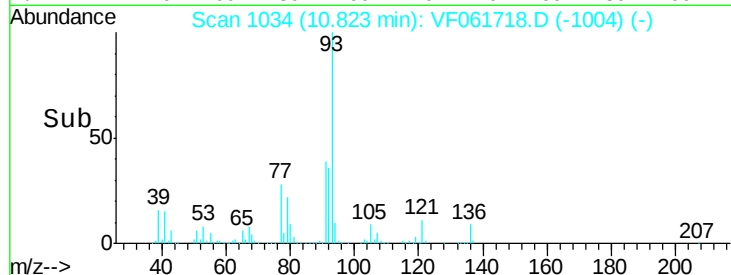
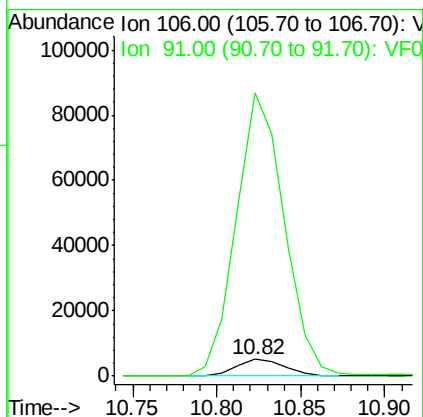
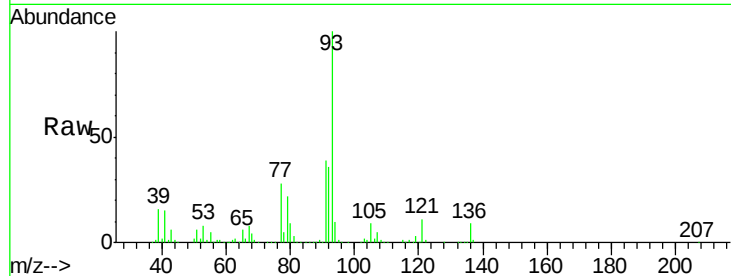




#69
o-Xylene
Concen: 1.839 ug/l
RT: 10.82 min Scan# 1034
Delta R.T. 0.10 min
Lab File: VF061718.D
Acq: 22 Feb 2019 19:52

Instrument :
MSVOA_F
ClientSampleId :
TP-23RE

Tot Ion:106 Resp: 10480
Ion Ratio Lower Upper
106 100
91 1657.6 100.1 300.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061718.D
Acq: 22 Feb 2019 19:52

Tgt Ion:152 Resp: 212043
Ion Ratio Lower Upper
152 100
115 48.7 24.3 72.8
150 149.2 0.0 312.0

