

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062701.D
 Acq On : 22 May 2019 13:07
 Operator : FY/SY
 Sample : K2962-11RE
 Misc : 3.93g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DB-4-4FTRE

Quant Time: May 23 01:21:17 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	741798	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	1241524	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	891193	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	417115	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	164798	31.44	ug/l	0.00
Spiked Amount			Recovery	=	62.88%	
35) Dibromofluoromethane	4.30	113	309341	32.56	ug/l	-0.02
Spiked Amount			Recovery	=	65.12%	
50) Toluene-d8	7.70	98	635532	28.02	ug/l	-0.02
Spiked Amount			Recovery	=	56.04%	
62) 4-Bromofluorobenzene	11.49	95	230237	26.76	ug/l	-0.02
Spiked Amount			Recovery	=	53.52%	

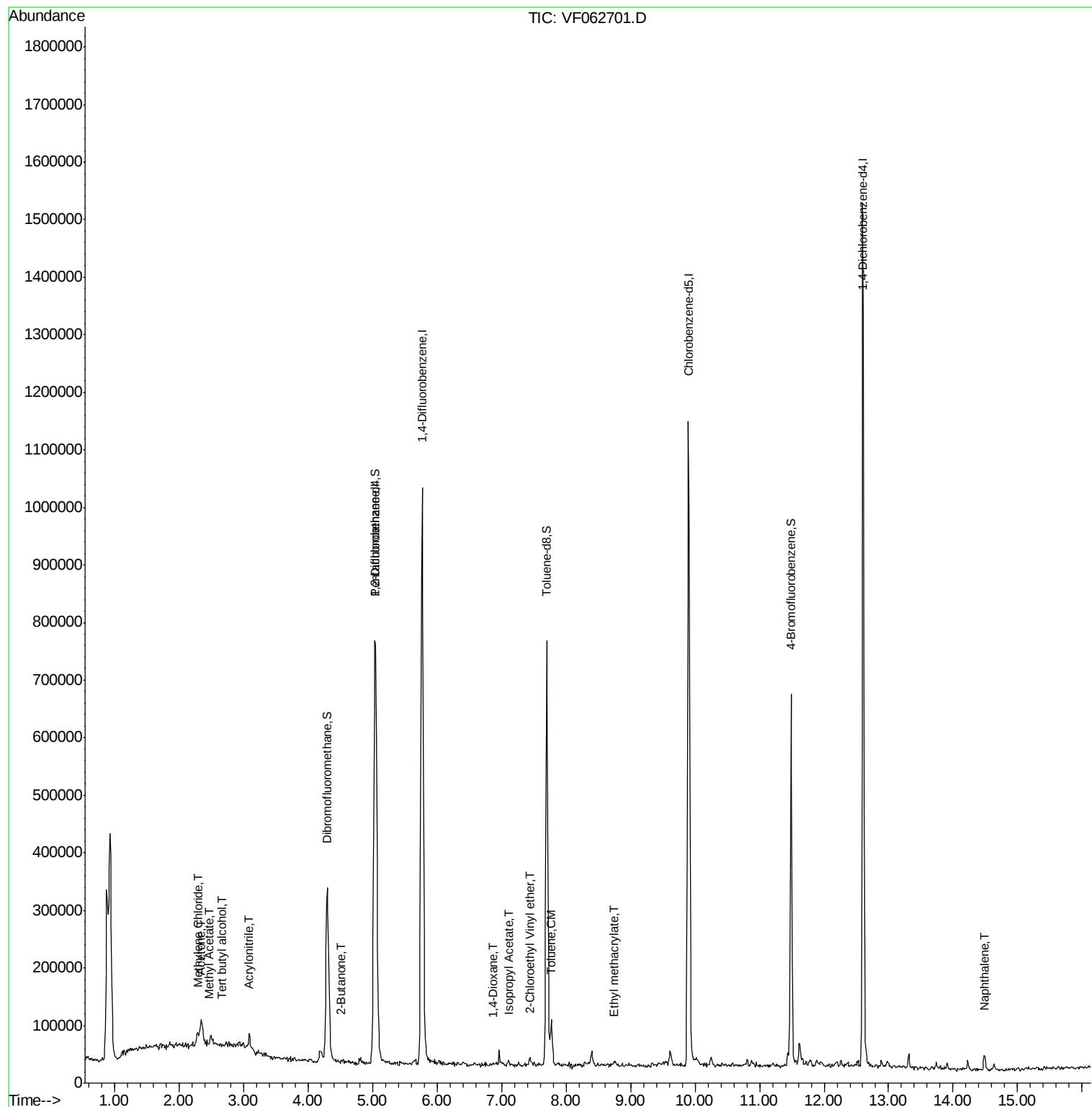
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	1079	3.118	ug/l #	63
15) Acrylonitrile	3.09	53	1259	1.290	ug/l	91
16) Acetone	2.35	43	33187	24.404	ug/l	91
18) Methyl Acetate	2.46	43	2557	1.197	ug/l	96
20) Methylene Chloride	2.29	84	13892	2.038	ug/l	88
25) 2-Butanone	4.52	43	3525	1.213	ug/l	98
43) Isopropyl Acetate	7.11	43	8542	1.269	ug/l #	70
49) 1,4-Dioxane	6.86	88	358	7.947	ug/l #	50
52) Toluene	7.77	92	43194	2.376	ug/l	99
56) Ethyl methacrylate	8.75	69	8714	1.359	ug/l #	81
58) 2-Chloroethyl Vinyl ether	7.44	63	8121	3.891	ug/l #	87
59) 2-Hexanone	9.61	43	25871	Below Cal		98
74) N-amyl acetate	11.44	43	18572	Below Cal #		91
95) Naphthalene	14.48	128	20287	1.302	ug/l	97

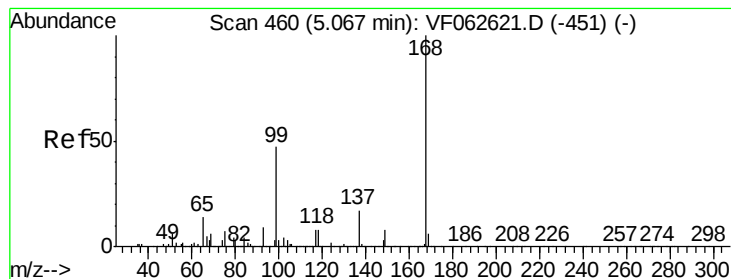
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

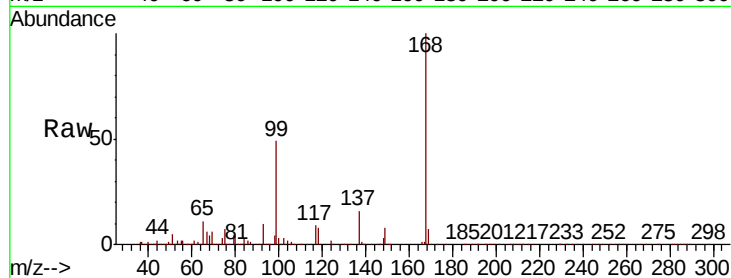
DB-4-4FTRE

Tot Ion:168 Resp: 741798

Ion Ratio Lower Upper

168 100

99 49.4 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

250000

200000

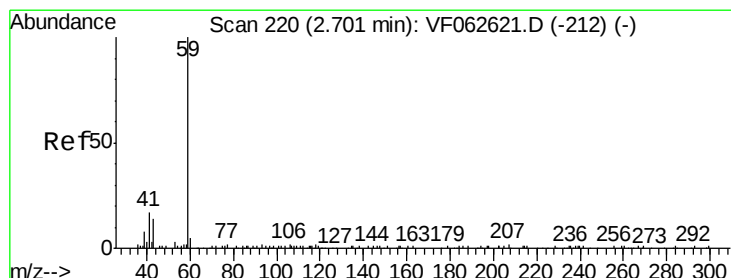
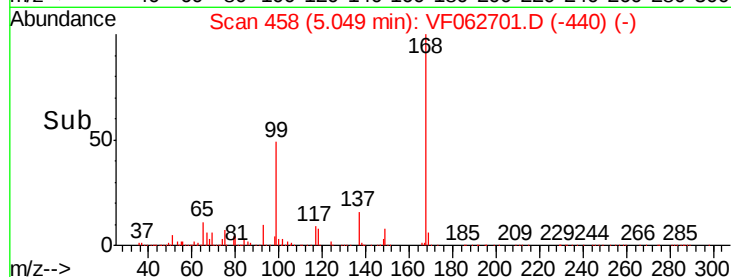
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.118 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.03 min

Lab File: VF062701.D

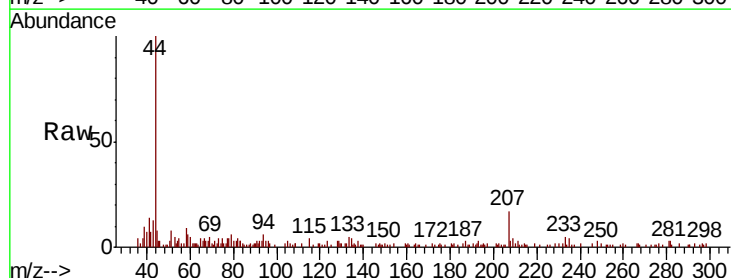
Acq: 22 May 2019 13:07

Tgt Ion: 59 Resp: 1079

Ion Ratio Lower Upper

59 100

57 25.9 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

800

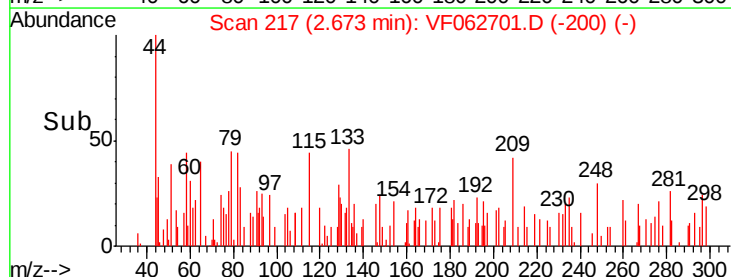
600

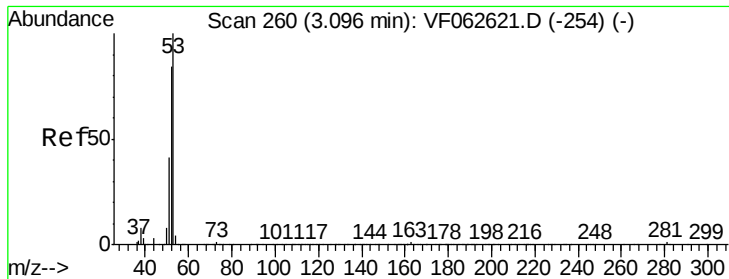
400

200

0

Time-->





#15

Acrylonitrile

Concen: 1.290 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

DB-4-4FTRE

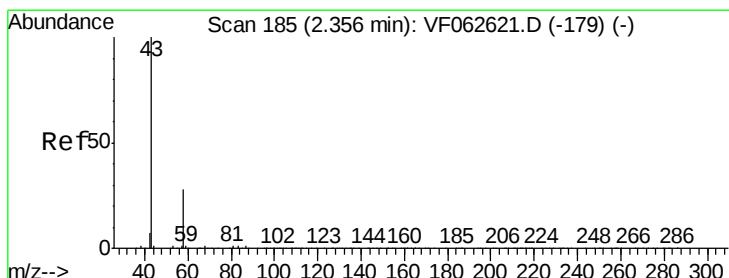
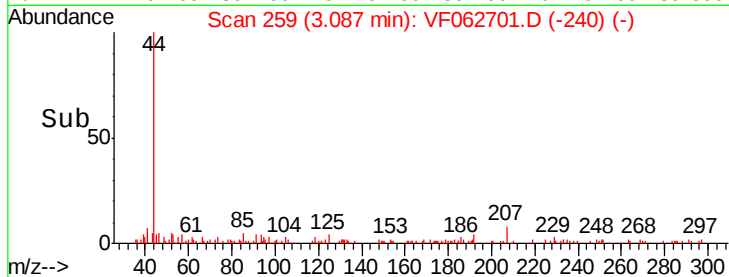
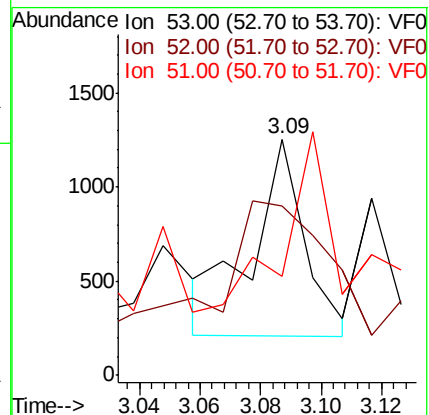
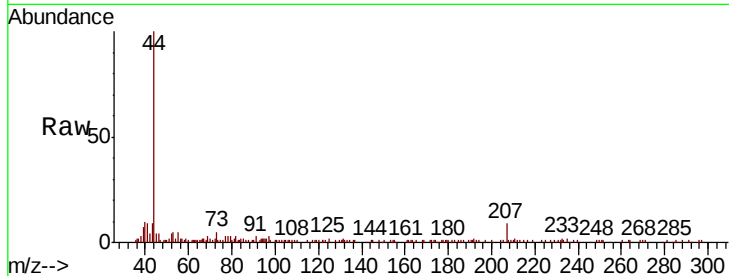
Tot Ion: 53 Resp: 1259

Ion Ratio Lower Upper

53 100

52 71.8 67.3 100.9

51 42.0 33.0 49.6



#16

Acetone

Concen: 24.404 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062701.D

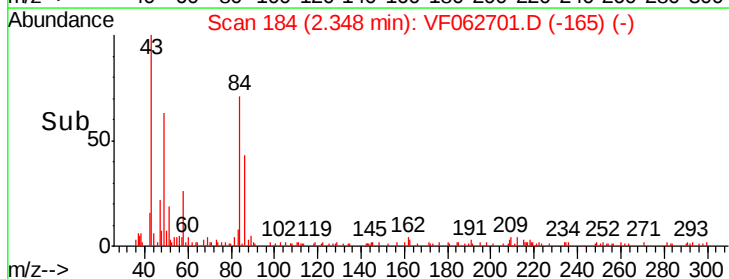
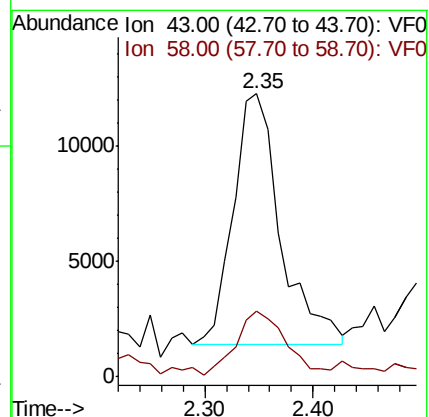
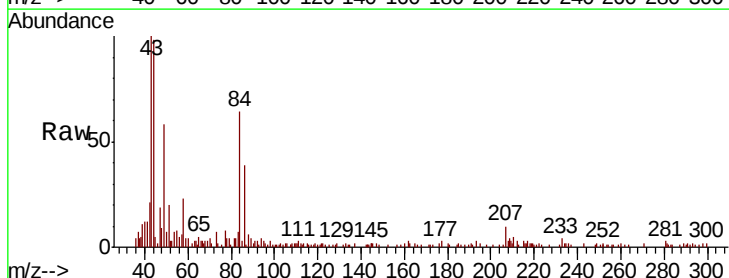
Acq: 22 May 2019 13:07

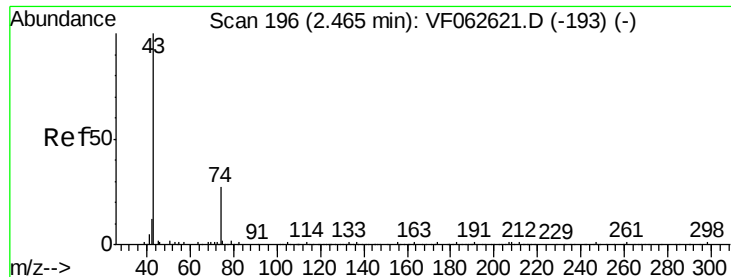
Tgt Ion: 43 Resp: 33187

Ion Ratio Lower Upper

43 100

58 23.3 22.6 33.8

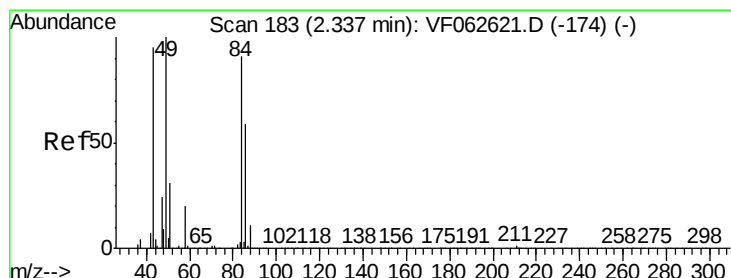
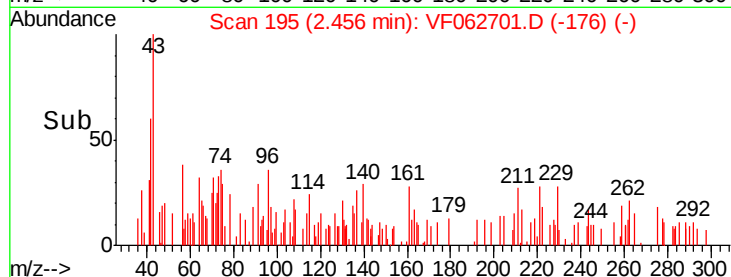
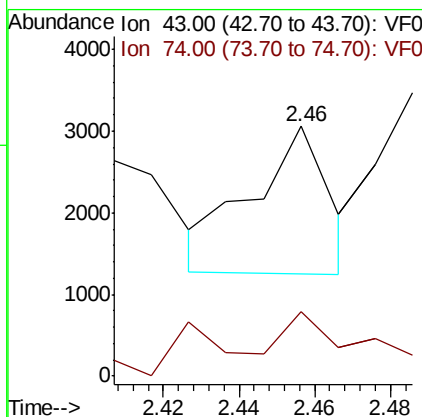
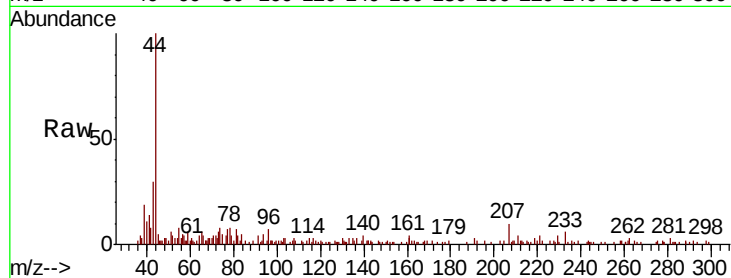




#18
Methyl Acetate
Concen: 1.197 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

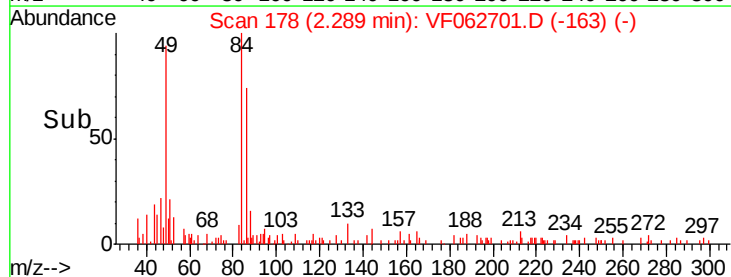
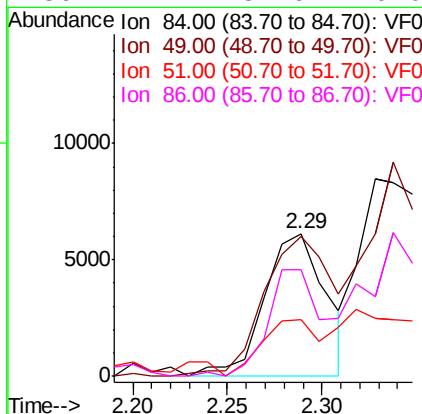
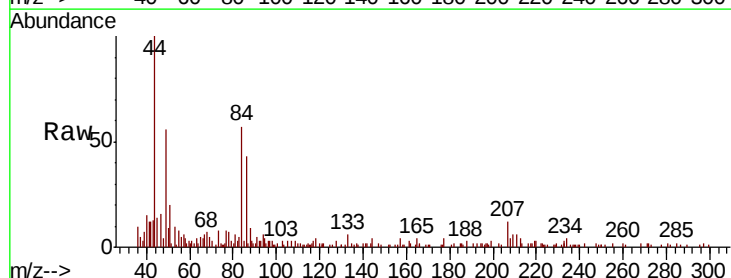
Instrument :
MSVOA_F
ClientSampleId :
DB-4-4FTRE

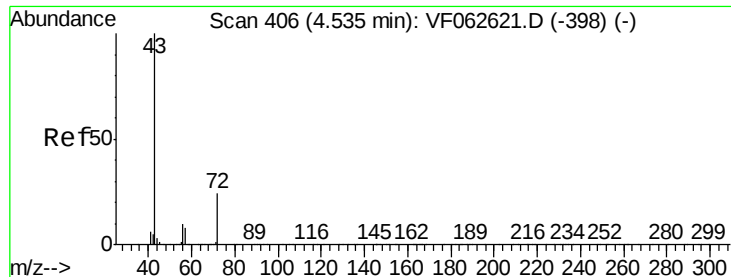
Tot Ion: 43 Resp: 2557
Ion Ratio Lower Upper
43 100
74 25.7 18.9 28.3



#20
Methylene Chloride
Concen: 2.038 ug/l
RT: 2.29 min Scan# 178
Delta R.T. -0.05 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

Tgt Ion: 84 Resp: 13892
Ion Ratio Lower Upper
84 100
49 97.8 89.8 134.8
51 39.6 28.4 42.6
86 74.4 52.6 79.0





#25

2-Butanone

Concen: 1.213 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

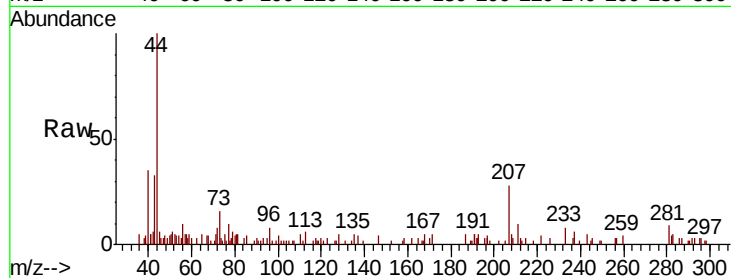
DB-4-4FTRE

Tot Ion: 43 Resp: 3525

Ion Ratio Lower Upper

43 100

72 24.3 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

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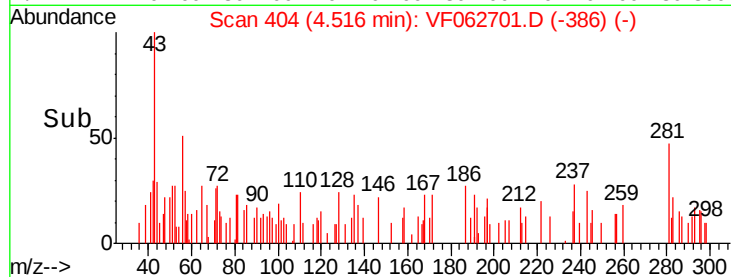
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4.52

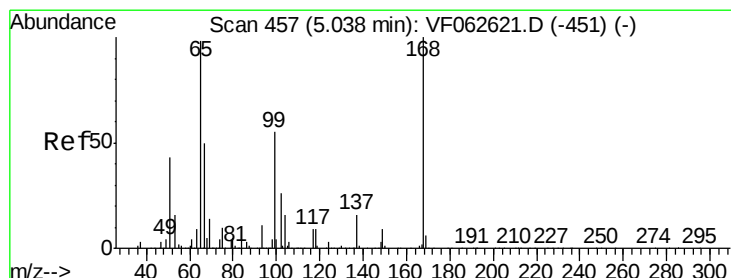
4.52

4.52

4.52



Time-->



#33

1,2-Dichloroethane-d4

Concen: 31.439 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF062701.D

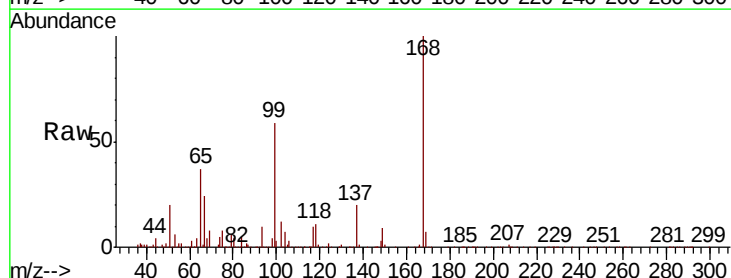
Acq: 22 May 2019 13:07

Tgt Ion: 65 Resp: 164798

Ion Ratio Lower Upper

65 100

67 64.3 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.03

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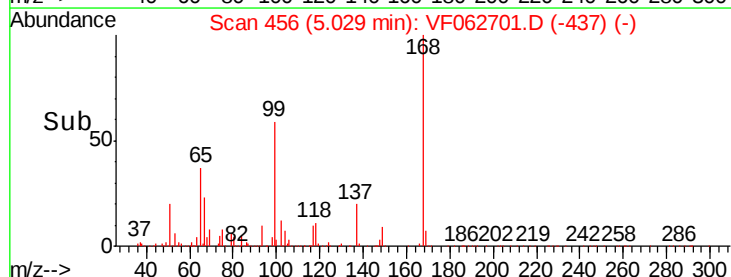
5.03

5.03

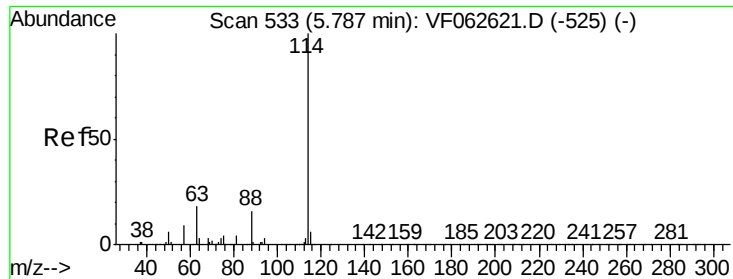
5.03

5.03

5.03



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

DB-4-4FTRE

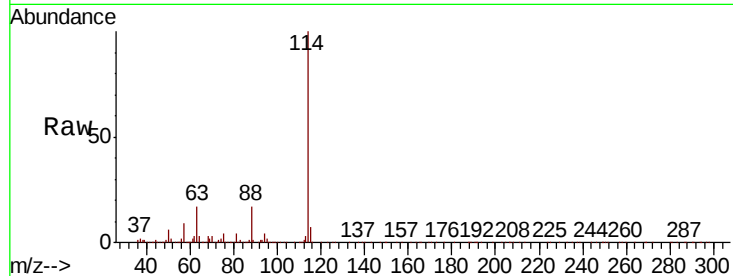
Tot Ion:114 Resp: 1241524

Ion Ratio Lower Upper

114 100

63 16.7 0.0 35.4

88 17.0 0.0 32.4



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

600000

500000

400000

300000

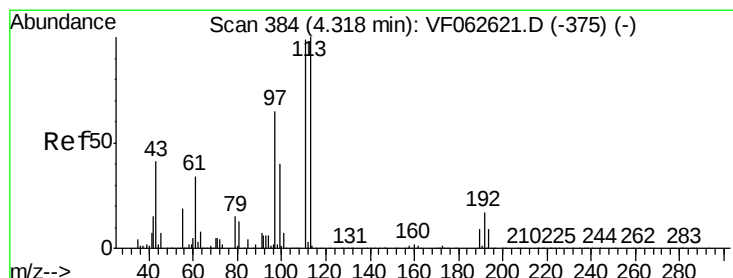
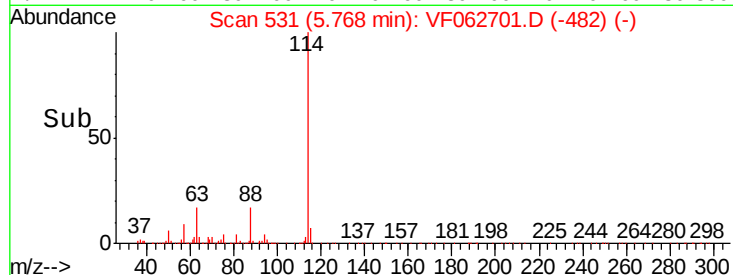
200000

100000

0

5.60 5.70 5.80 5.90 6.00

Time-->



#35

Dibromofluoromethane

Concen: 32.562 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

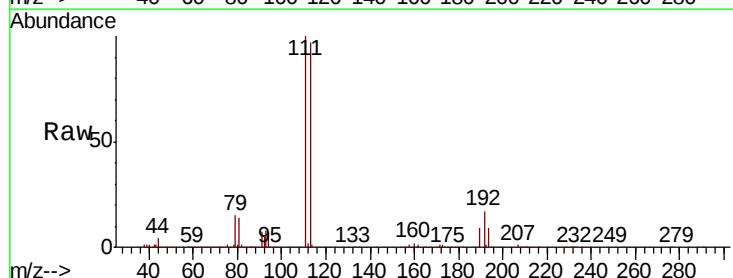
Tgt Ion:113 Resp: 309341

Ion Ratio Lower Upper

113 100

111 102.1 79.4 119.2

192 17.9 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

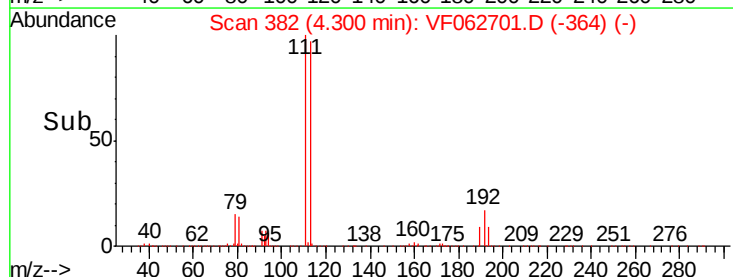
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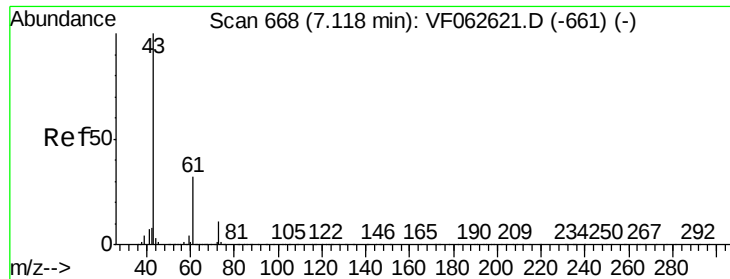
50000

0

4.20 4.30 4.40

Time-->





#43

Isopropyl Acetate

Concen: 1.269 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

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ClientSampleId :

DB-4-4FTRE

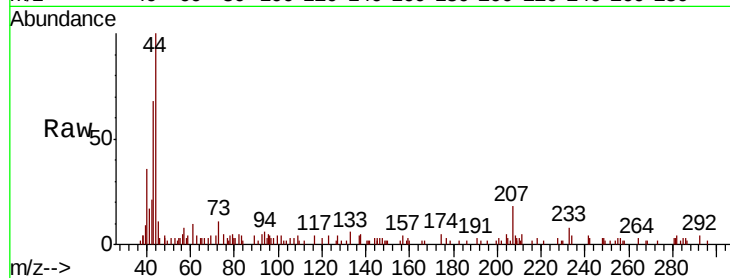
Tot Ion: 43 Resp: 8542

Ion Ratio Lower Upper

43 100

61 15.3 25.8 38.8#

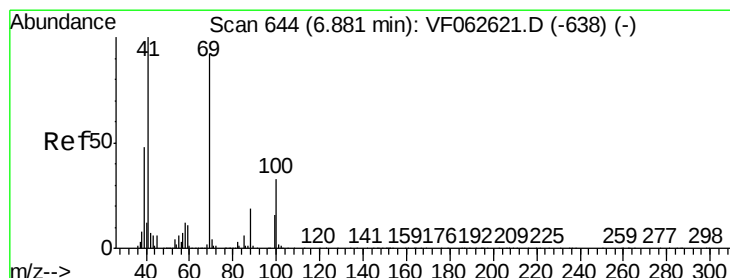
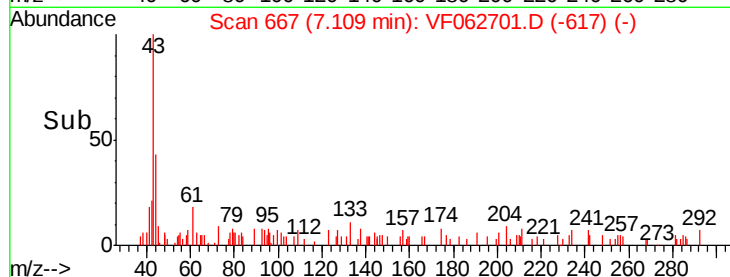
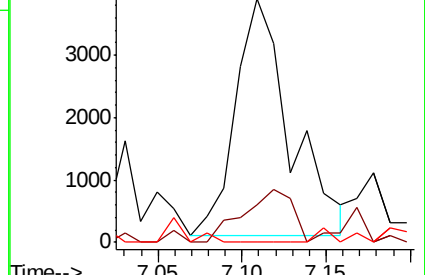
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#49

1,4-Dioxane

Concen: 7.947 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

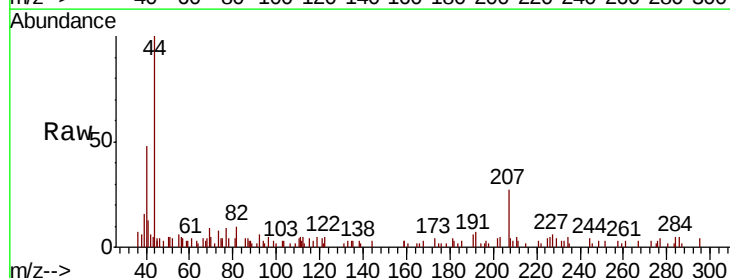
Tgt Ion: 88 Resp: 358

Ion Ratio Lower Upper

88 100

43 86.9 30.0 45.0#

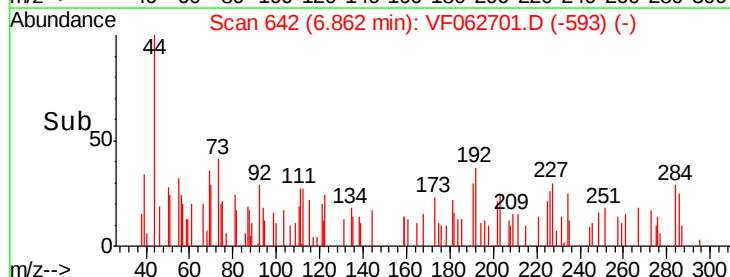
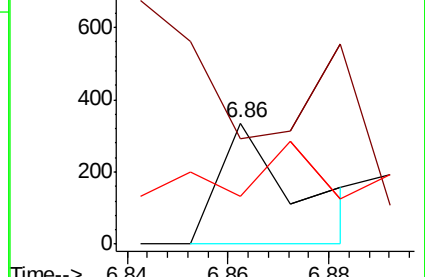
58 39.9 51.1 76.7#

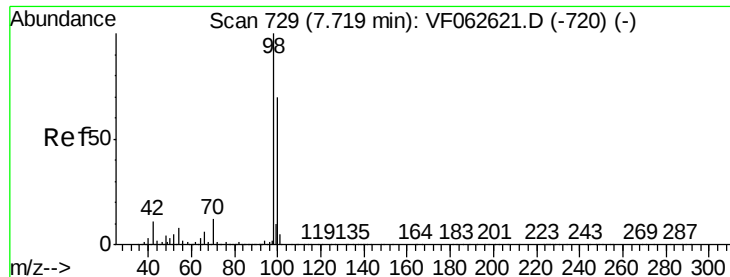


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 28.018 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

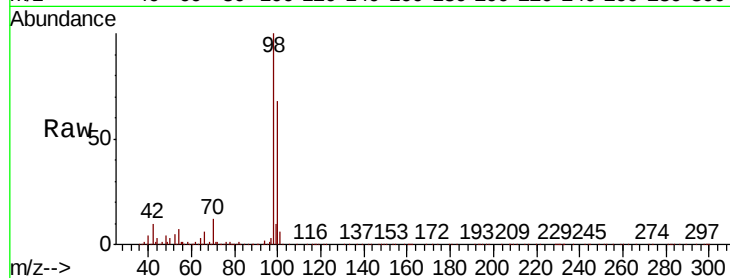
DB-4-4FTRE

Tot Ion: 98 Resp: 635532

Ion Ratio Lower Upper

98 100

100 68.4 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

300000

250000

200000

150000

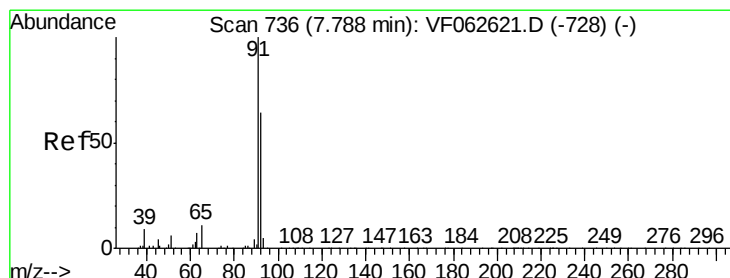
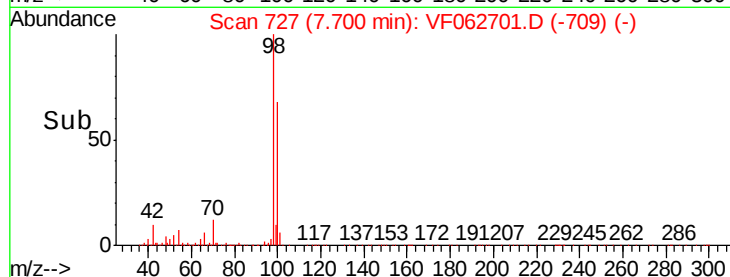
100000

50000

0

7.60 7.70 7.80 7.90

Time-->



#52

Toluene

Concen: 2.376 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF062701.D

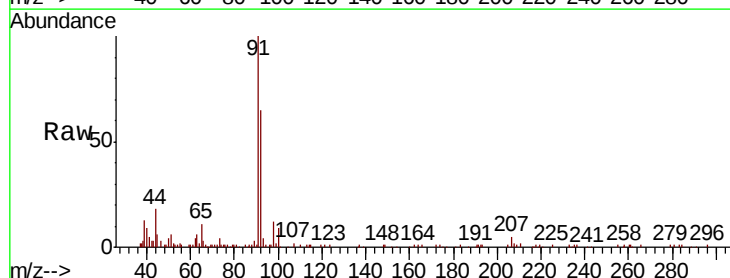
Acq: 22 May 2019 13:07

Tgt Ion: 92 Resp: 43194

Ion Ratio Lower Upper

92 100

91 154.9 125.4 188.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

30000

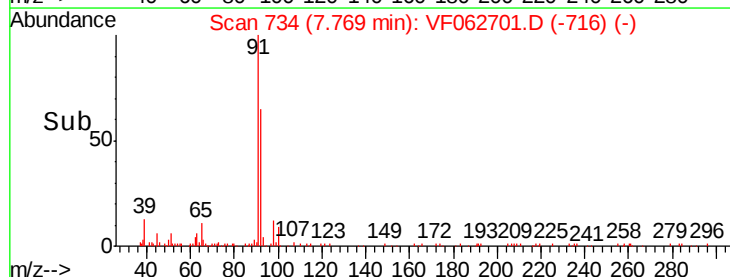
20000

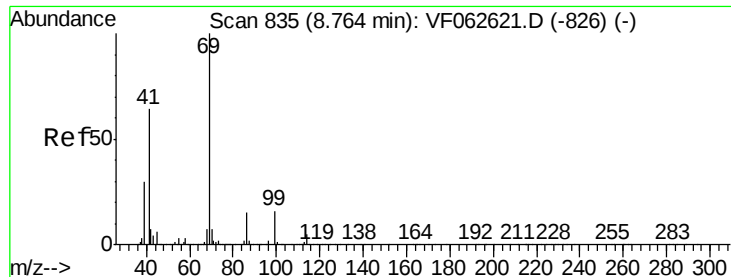
10000

0

7.70 7.80 7.90

Time-->





#56

Ethyl methacrylate

Concen: 1.359 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

MSVOA_F

ClientSampleId :

DB-4-FTRE

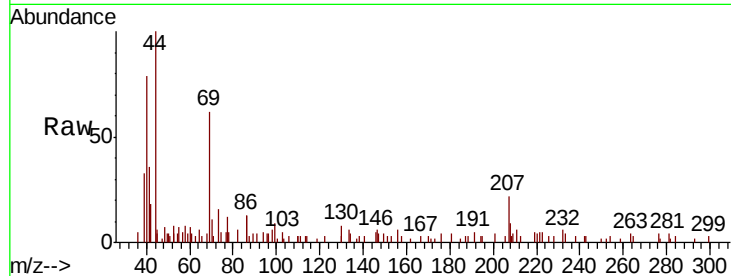
Tot Ion: 69 Resp: 8714

Ion Ratio Lower Upper

69 100

41 58.1 51.4 77.2

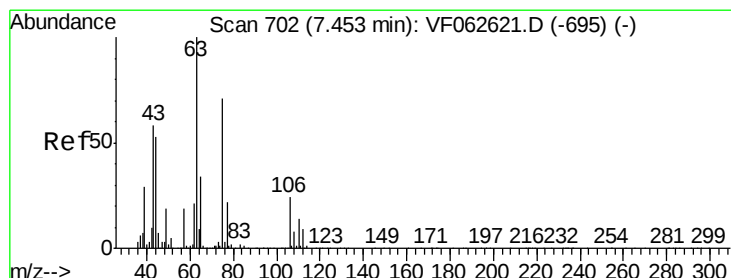
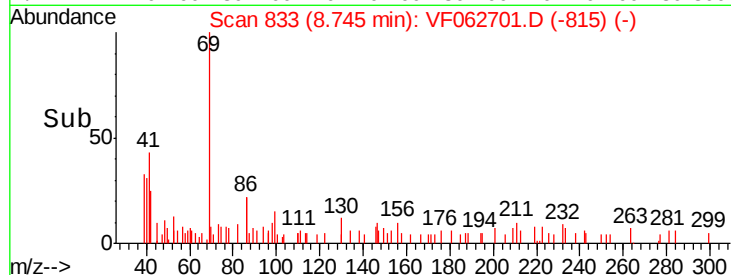
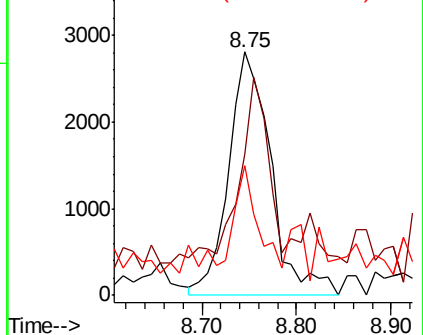
39 53.5 23.6 35.4#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 3.891 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF062701.D

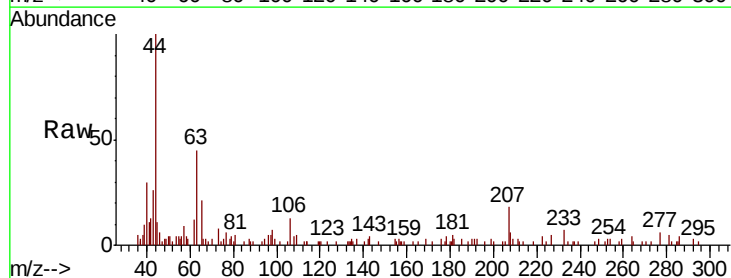
Acq: 22 May 2019 13:07

Tgt Ion: 63 Resp: 8121

Ion Ratio Lower Upper

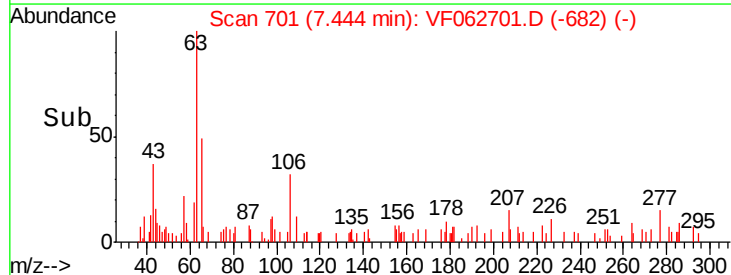
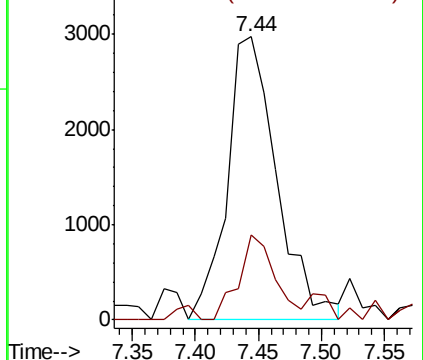
63 100

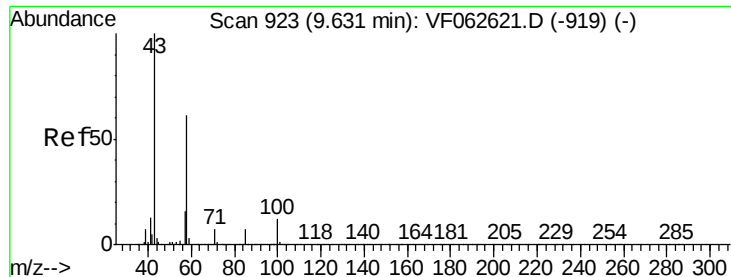
106 30.2 19.1 28.7#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

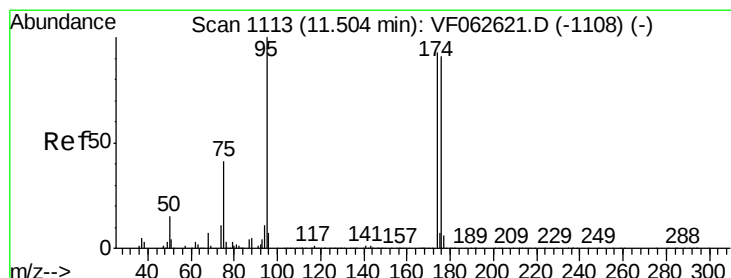
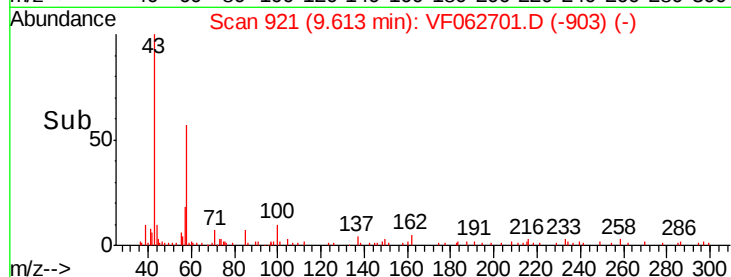
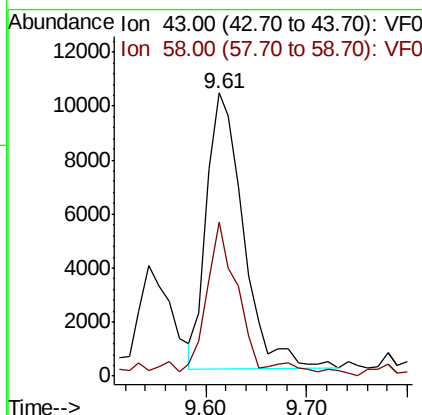
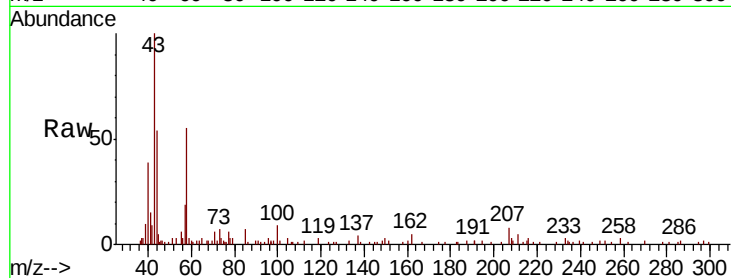




#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.02 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

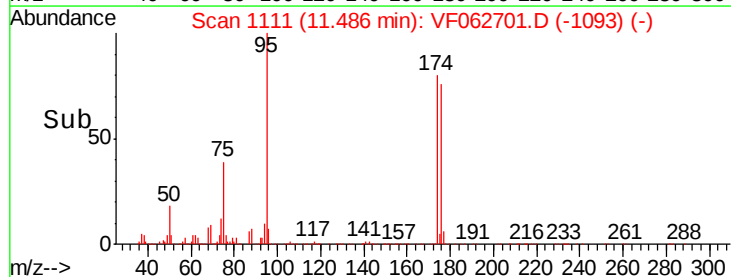
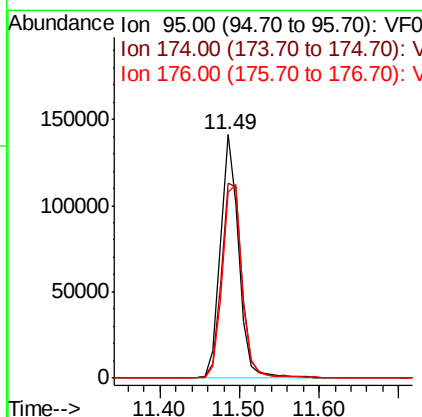
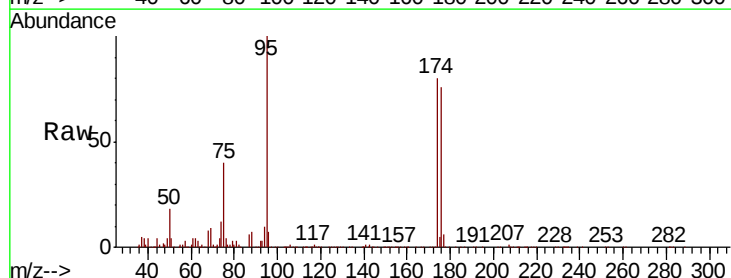
Instrument :
MSVOA_F
ClientSampled :
DB-4-4FTRE

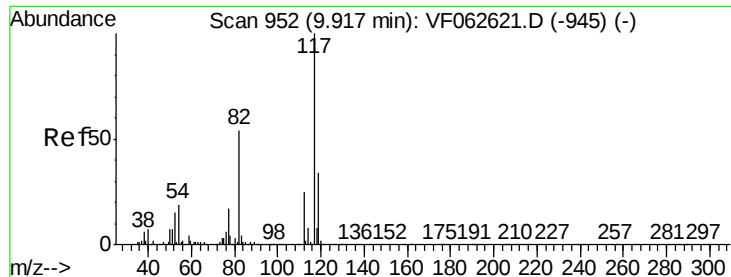
Tot Ion: 43 Resp: 25871
Ion Ratio Lower Upper
43 100
58 54.6 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 26.763 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

Tgt Ion: 95 Resp: 230237
Ion Ratio Lower Upper
95 100
174 80.2 0.0 185.6
176 76.3 0.0 182.4

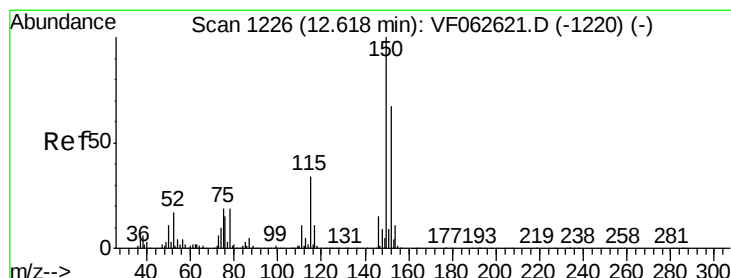
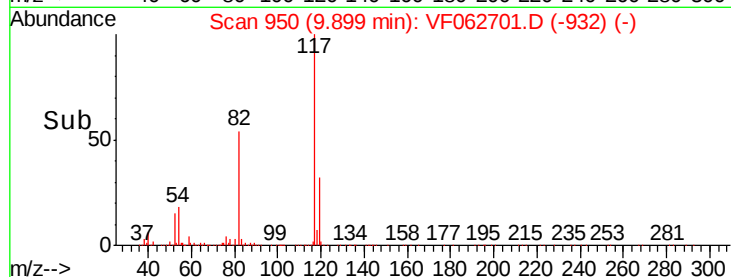
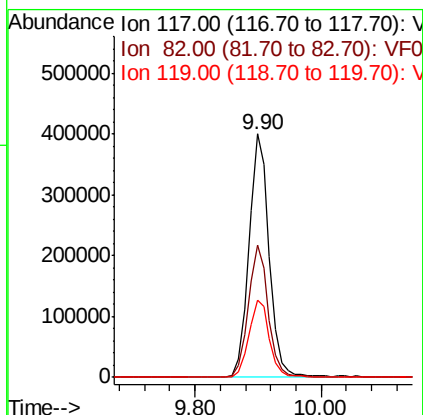
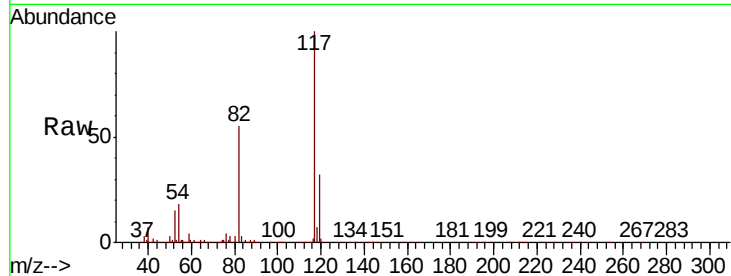




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.02 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

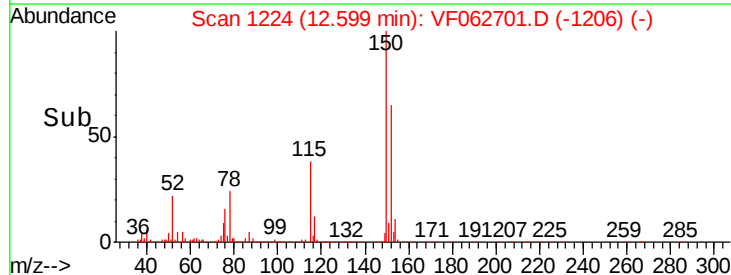
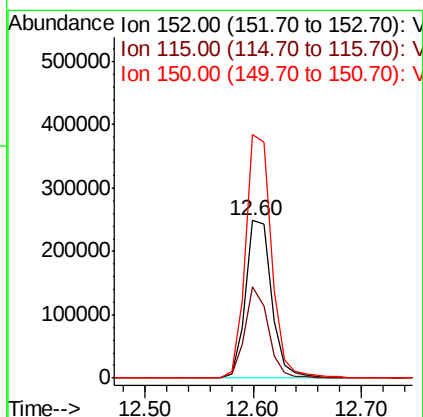
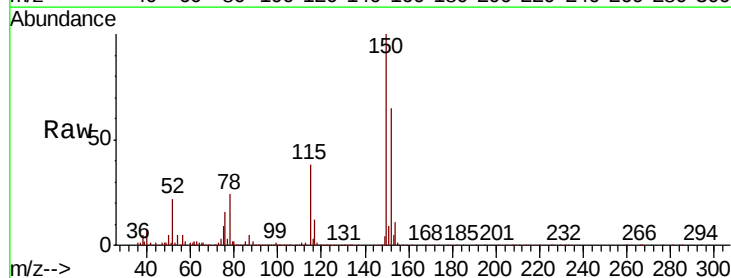
Instrument :
MSVOA_F
ClientSampleId :
DB-4-4FTRE

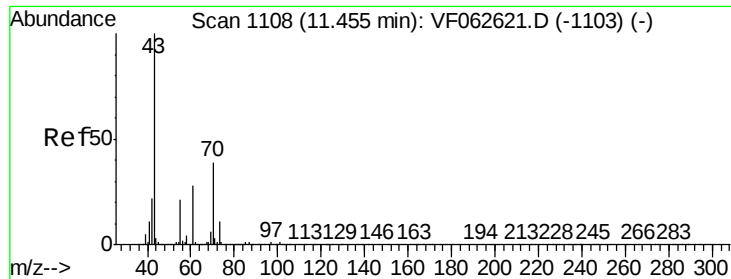
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.3	64.9
119	31.7	27.4	41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1224
Delta R.T. -0.02 min
Lab File: VF062701.D
Acq: 22 May 2019 13:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	25.2	75.6
150	154.3	0.0	306.2





#74

N-amyl acetate

Concen: Below Cal

RT: 11.44 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Instrument :

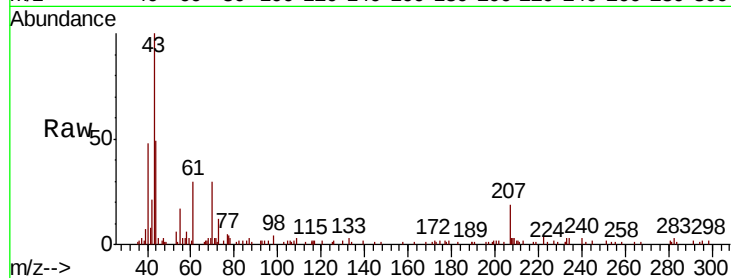
MSVOA_F

ClientSampleId :

DB-4-4FTRE

Tot Ion: 43 Resp: 18572

Ion	Ratio	Lower	Upper
43	100		
70	29.7	30.9	46.3#
55	17.5	17.0	25.4
61	30.0	22.6	34.0



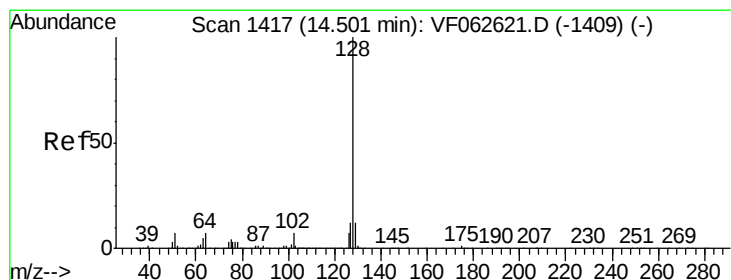
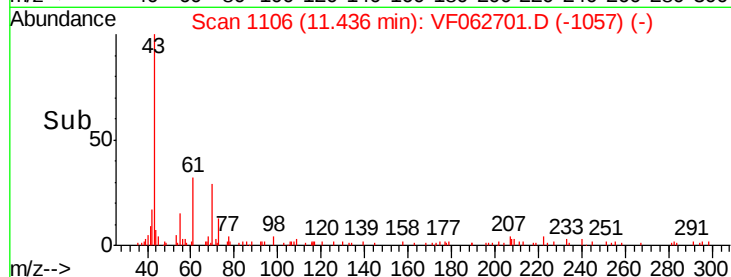
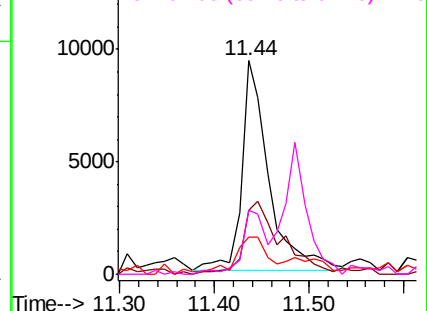
Abundance

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: 1.302 ug/l

RT: 14.48 min Scan# 1415

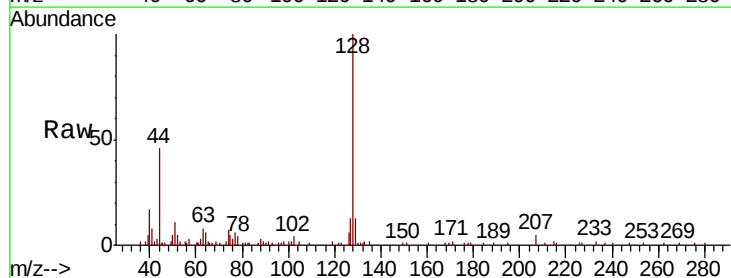
Delta R.T. -0.02 min

Lab File: VF062701.D

Acq: 22 May 2019 13:07

Tgt Ion: 128 Resp: 20287

Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.7	14.5
129	13.4	9.3	13.9



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

