

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062729.D
 Acq On : 23 May 2019 16:19
 Operator : FY/SY
 Sample : K2976-22
 Misc : 5.92g/5mL/MSVOA F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 24 02:15:09 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	5.06	168	909244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1502550	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	989870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	526196	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	274433	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	
35) Dibromofluoromethane	4.31	113	504577	43.89	ug/l	0.00
Spiked Amount			Recovery	=	87.78%	
50) Toluene-d8	7.71	98	1044187	38.04	ug/l	0.00
Spiked Amount			Recovery	=	76.08%	
62) 4-Bromofluorobenzene	11.50	95	483065	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

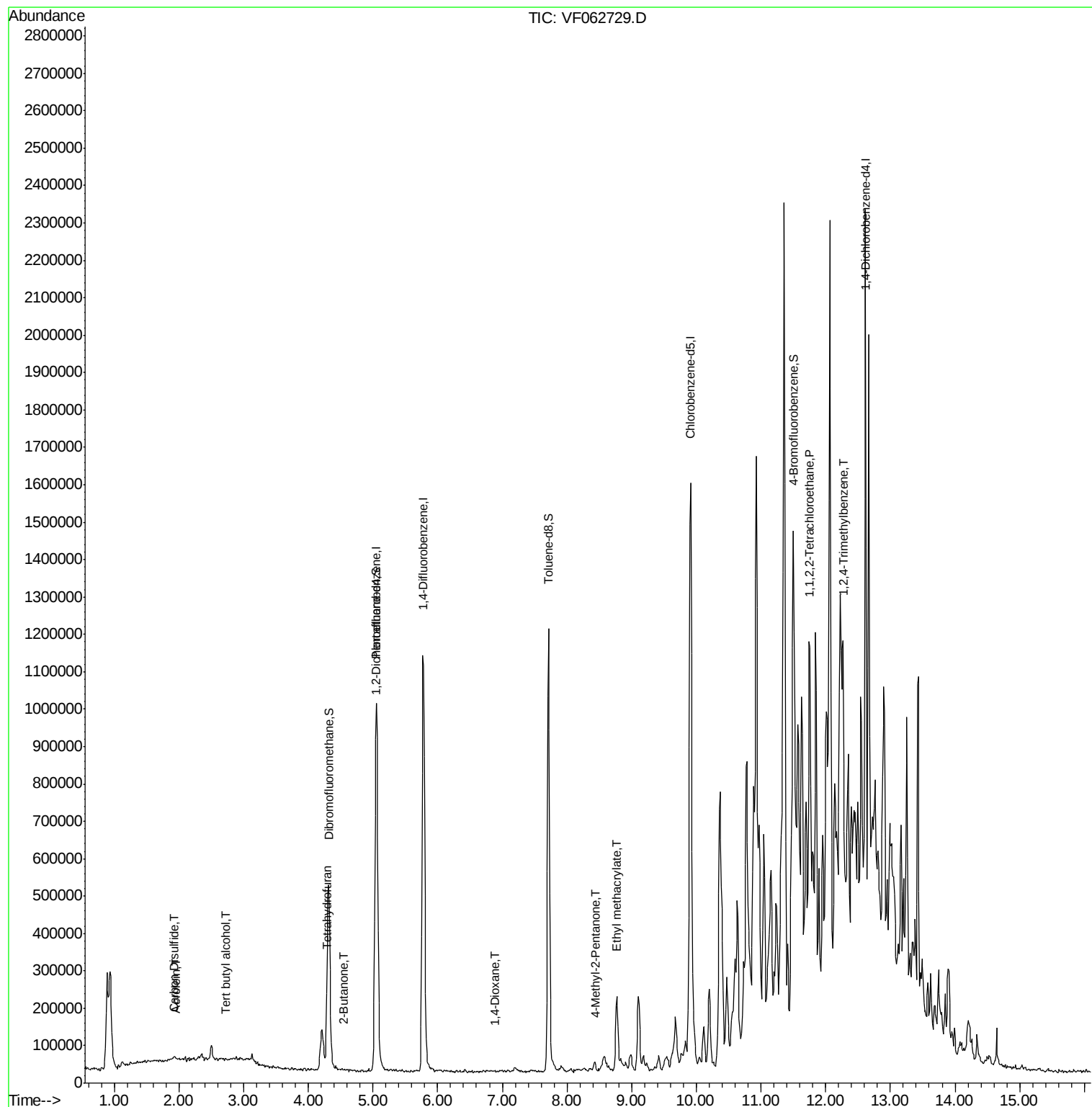
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.72	59	2606	6.143	ug/l #	1
13) Acrolein	1.96	56	469	1.059	ug/l	90
17) Carbon Disulfide	1.94	76	38969	1.610	ug/l #	88
25) 2-Butanone	4.54	43	10896	3.060	ug/l	94
29) Tetrahydrofuran	4.27	42	6969	4.836	ug/l #	78
49) 1,4-Dioxane	6.89	88	77	1.412	ug/l #	1
51) 4-Methyl-2-Pentanone	8.42	43	21715	3.901	ug/l #	45
56) Ethyl methacrylate	8.77	69	106623	13.741	ug/l #	66
59) 2-Hexanone	9.68	43	20007	Below Cal	#	33
74) N-amyl acetate	11.47	43	30505	Below Cal	#	1
75) 1,1,2,2-Tetrachloroethane	11.75	83	165256	21.442	ug/l #	32
84) 1,2,4-Trimethylbenzene	12.27	105	57475	1.964	ug/l	85

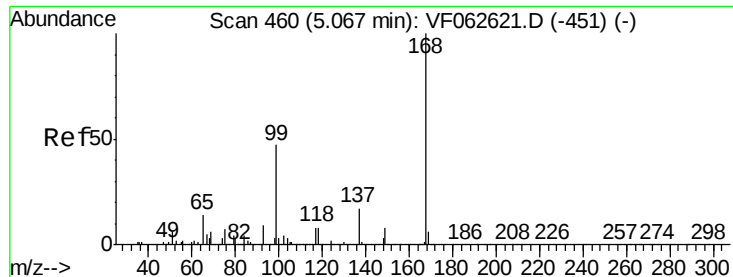
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

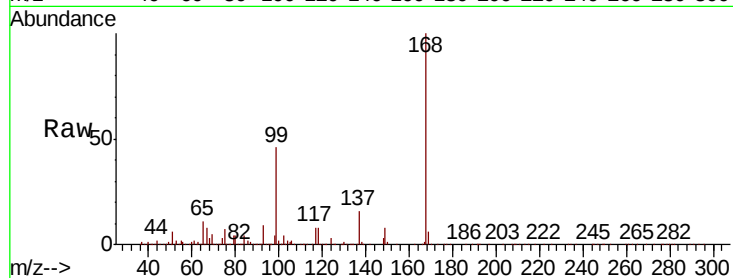
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 909244

Ion Ratio Lower Upper

168 100

99 46.2 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

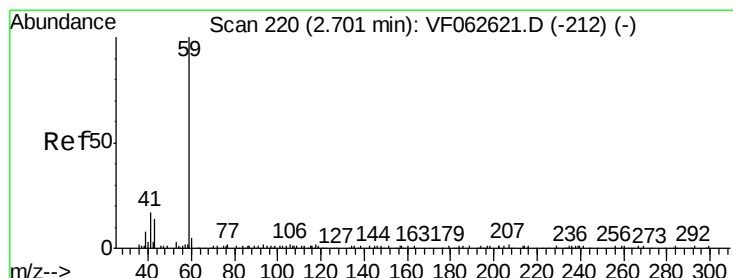
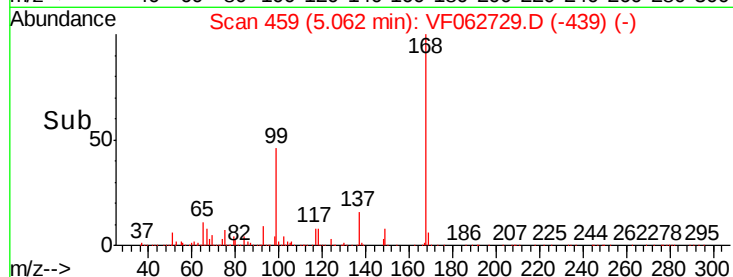
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.143 ug/l

RT: 2.72 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062729.D

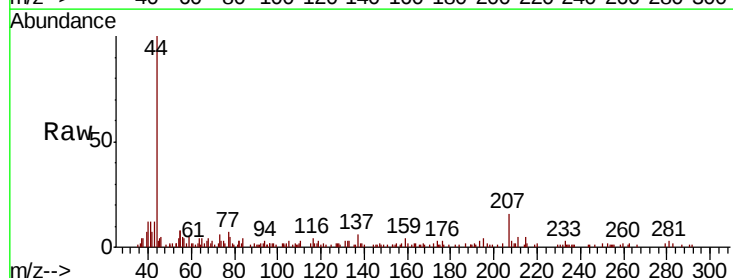
Acq: 23 May 2019 16:19

Tgt Ion: 59 Resp: 2606

Ion Ratio Lower Upper

59 100

57 72.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1200

1000

800

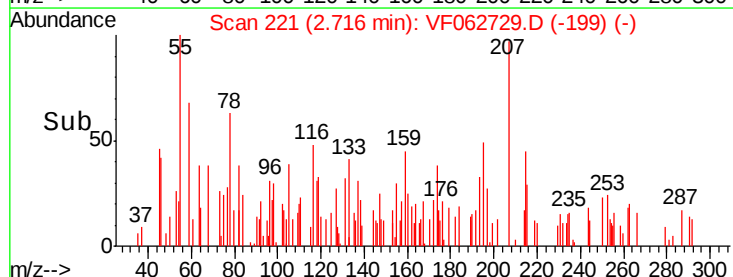
600

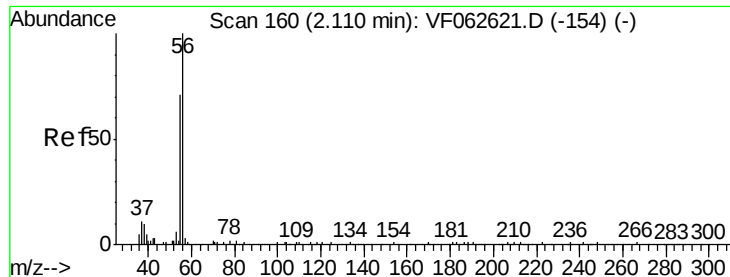
400

200

0

Time-->





#13

Acrolein

Concen: 1.059 ug/l

RT: 1.96 min Scan# 144

Delta R.T. -0.15 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

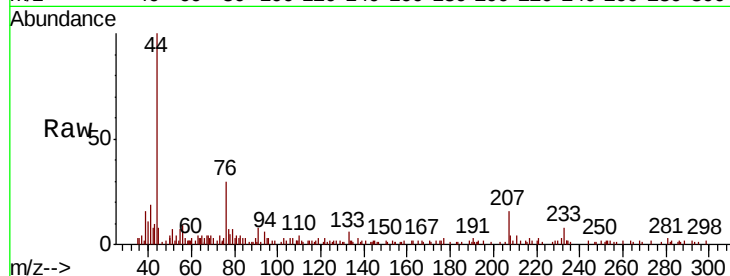
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 469

Ion Ratio Lower Upper

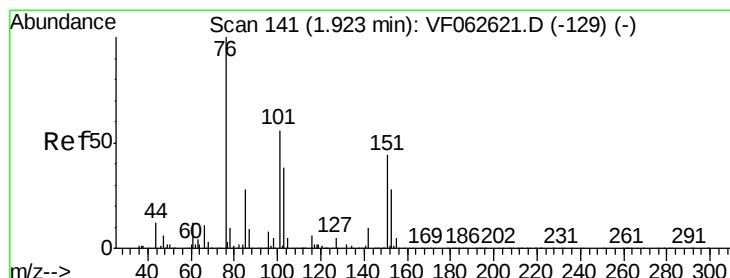
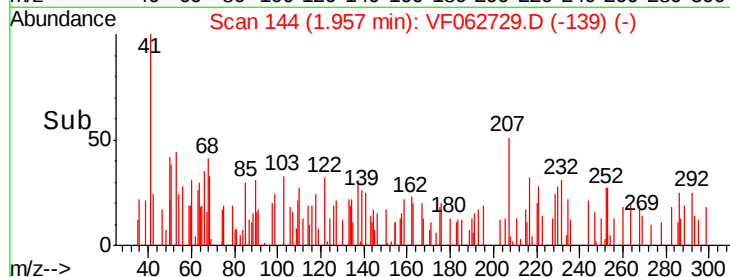
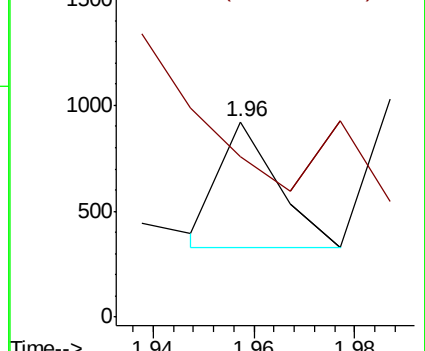
56 100

55 82.4 59.4 89.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#17

Carbon Disulfide

Concen: 1.610 ug/l

RT: 1.94 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062729.D

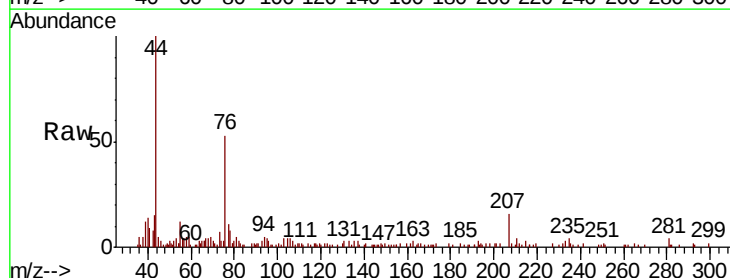
Acq: 23 May 2019 16:19

Tgt Ion: 76 Resp: 38969

Ion Ratio Lower Upper

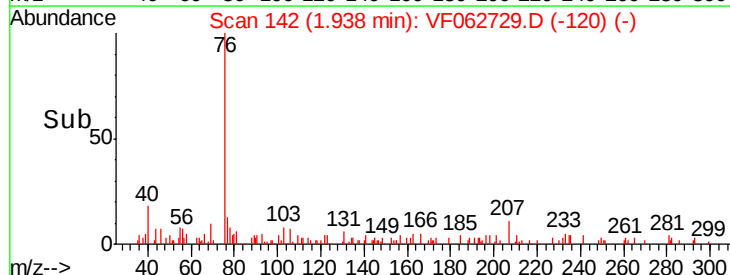
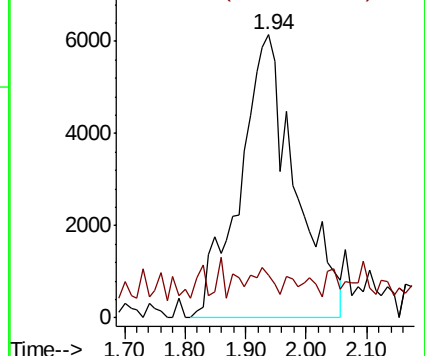
76 100

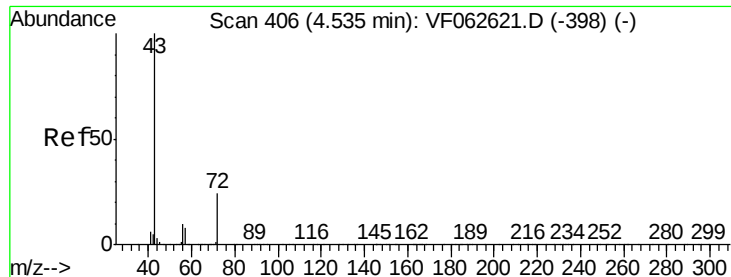
78 15.1 8.4 12.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#25

2-Butanone

Concen: 3.060 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

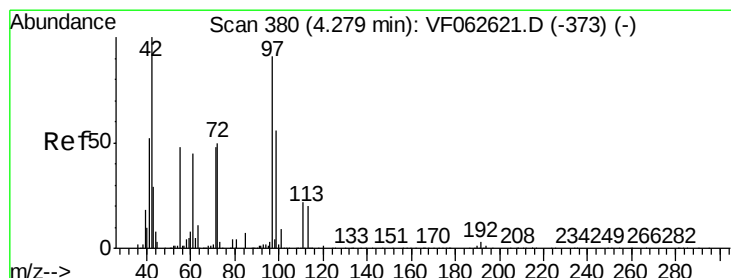
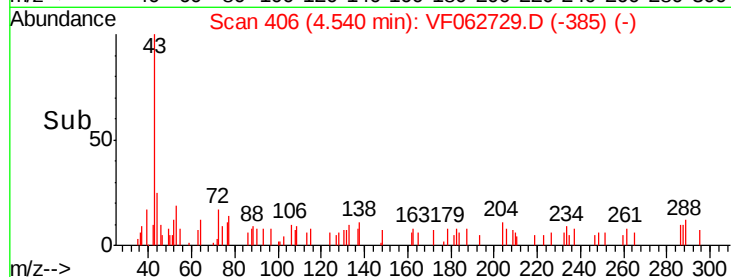
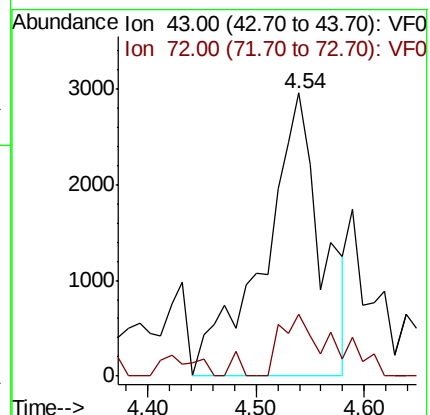
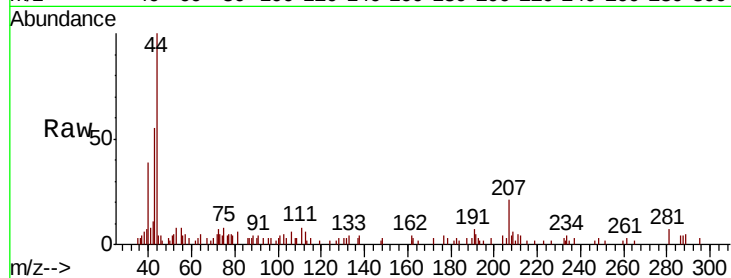
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 10896

Ion Ratio Lower Upper

43 100

72 22.1 20.1 30.1



#29

Tetrahydrofuran

Concen: 4.836 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

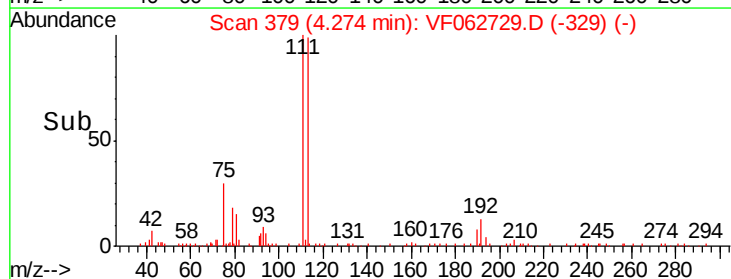
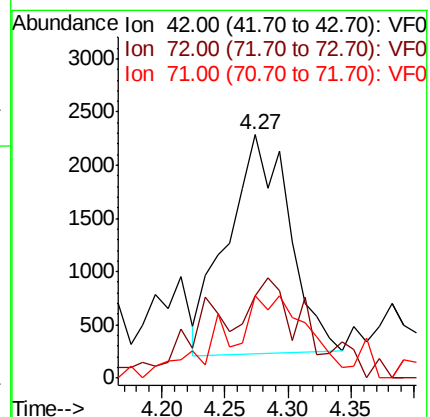
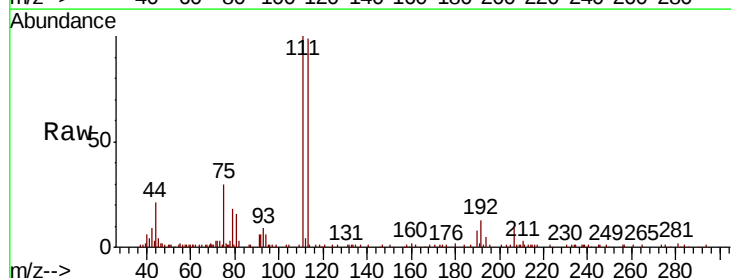
Tgt Ion: 42 Resp: 6969

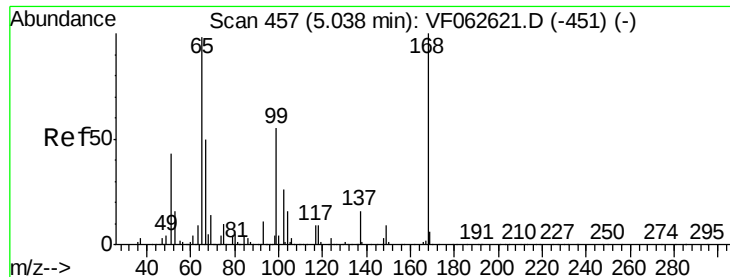
Ion Ratio Lower Upper

42 100

72 25.0 38.2 57.2#

71 51.2 35.8 53.6





#33

1,2-Dichloroethane-d4

Concen: 42.712 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Instrument :

MSVOA_F

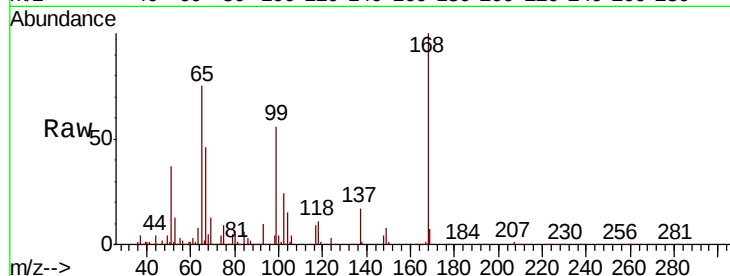
ClientSampled :

Tot Ion: 65 Resp: 274433

Ion Ratio Lower Upper

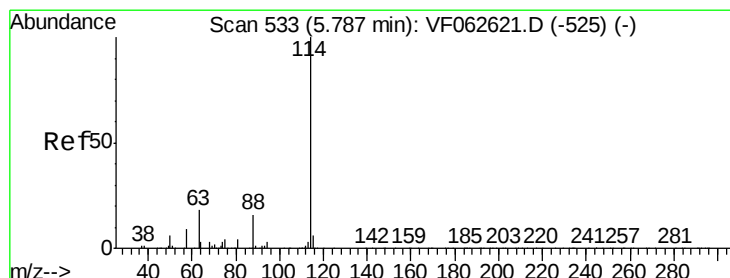
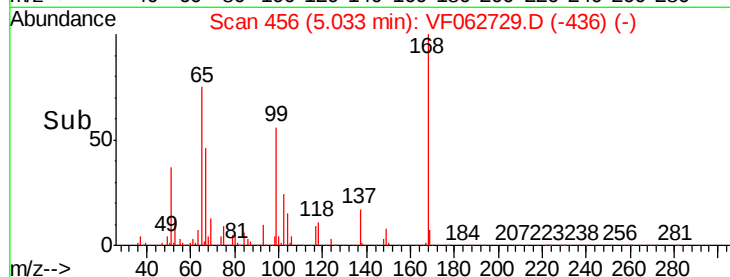
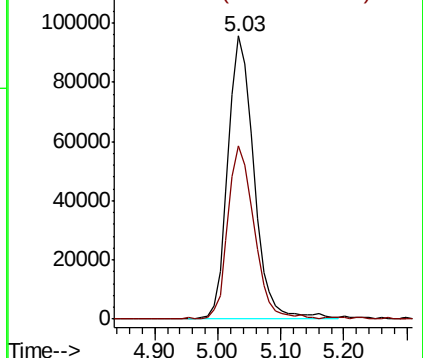
65 100

67 61.3 0.0 117.6



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: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

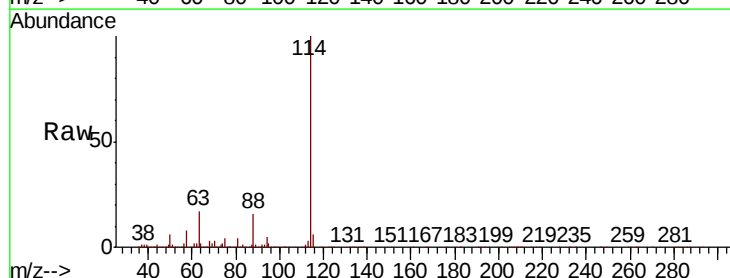
Tgt Ion: 114 Resp: 1502550

Ion Ratio Lower Upper

114 100

63 16.6 0.0 35.4

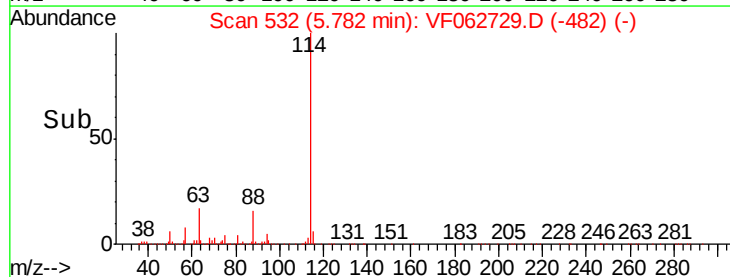
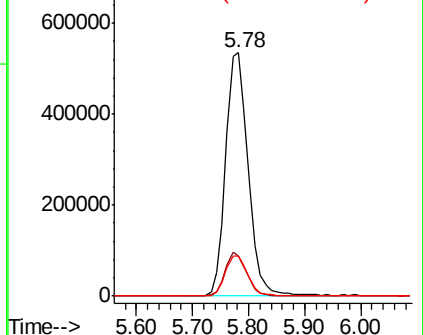
88 16.3 0.0 32.4

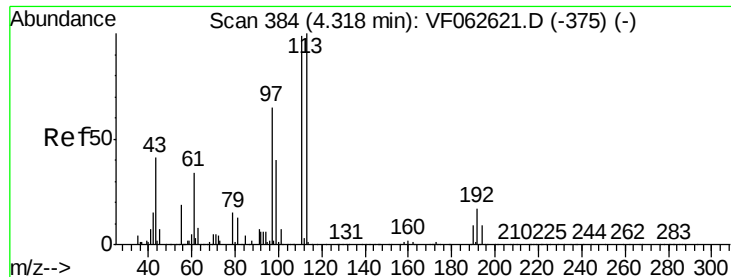


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

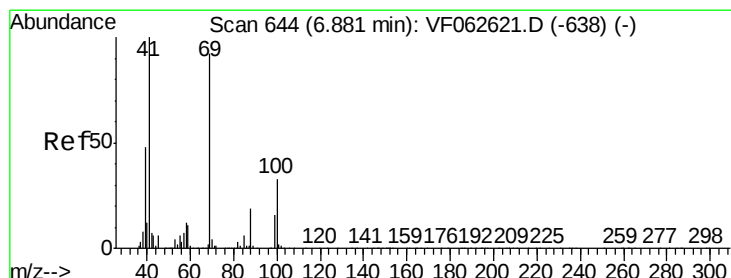
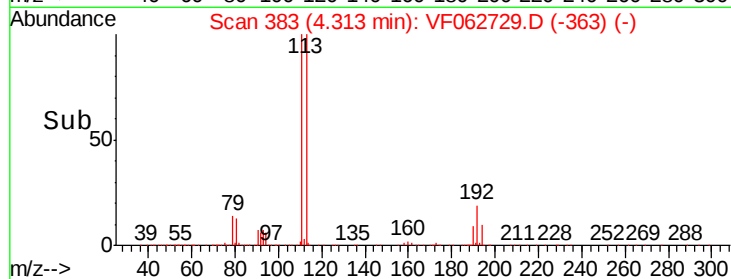
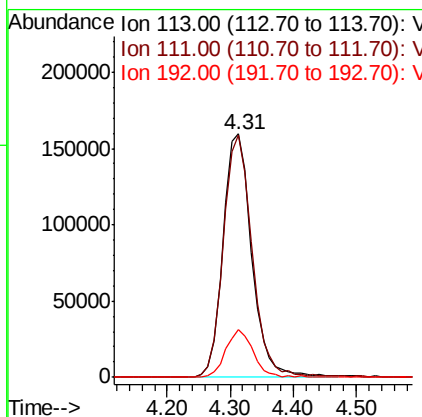
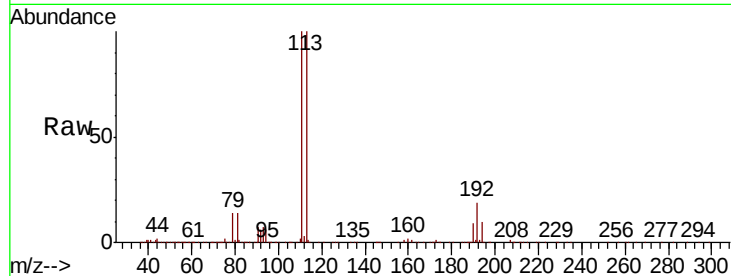




#35
 Dibromofluoromethane
 Concen: 43.886 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.00 min
 Lab File: VF062729.D
 Acq: 23 May 2019 16:19

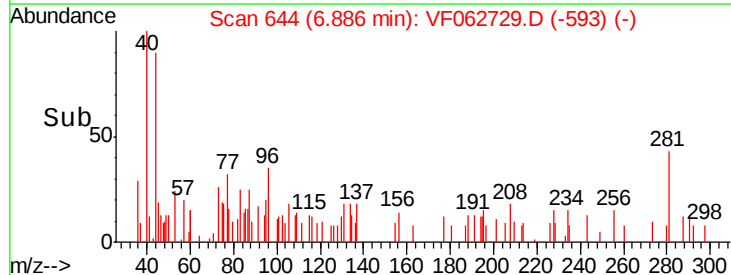
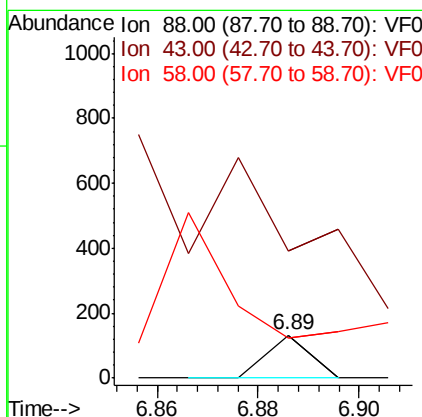
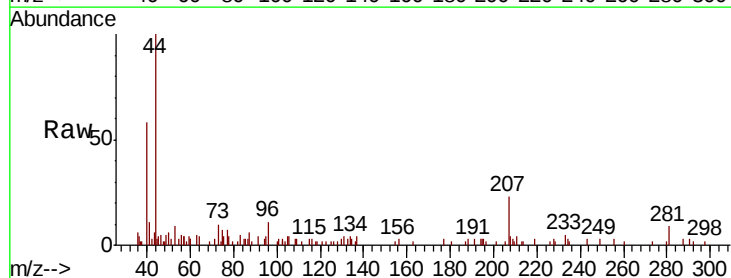
Instrument :
 MSVOA_F
 ClientSampleId :

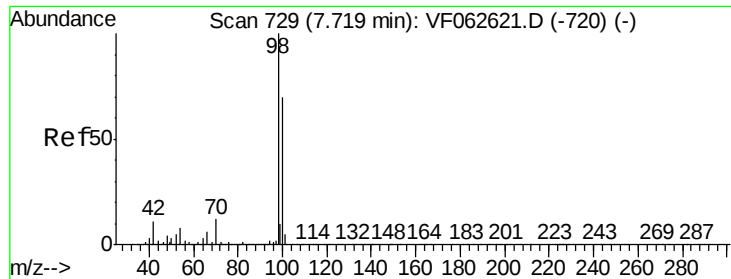
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.8	79.4	119.2
192	19.4	13.4	20.2



#49
 1,4-Dioxane
 Concen: 1.412 ug/l
 RT: 6.89 min Scan# 644
 Delta R.T. 0.01 min
 Lab File: VF062729.D
 Acq: 23 May 2019 16:19

Tgt Ion	Ratio	Lower	Upper
88	100		
43	297.7	30.0	45.0#
58	93.1	51.1	76.7#





#50

Toluene-d8

Concen: 38.037 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Instrument :

MSVOA_F

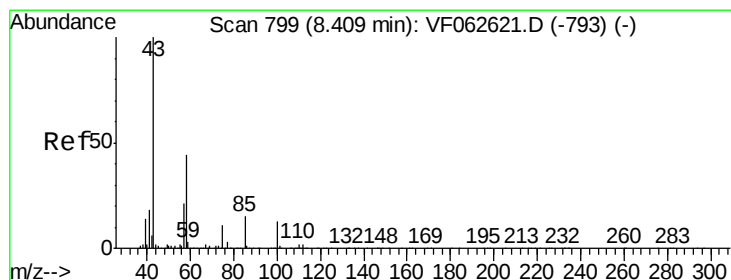
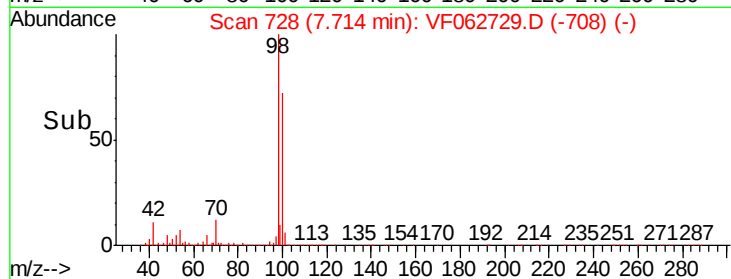
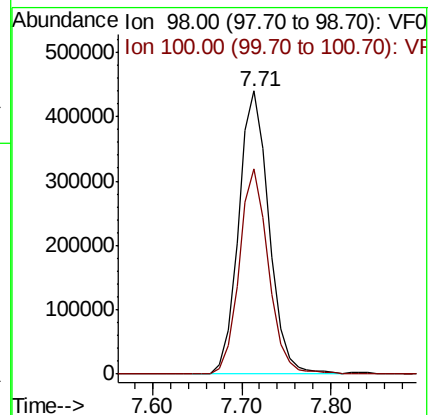
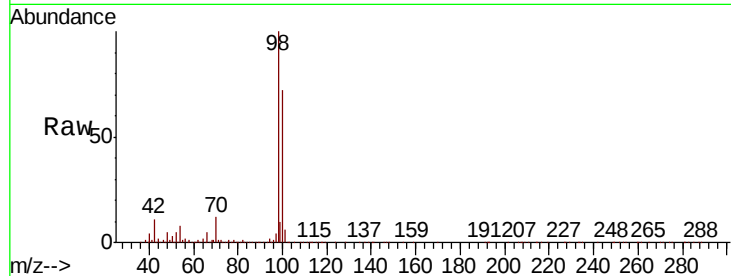
ClientSampleId :

Tot Ion: 98 Resp: 1044187

Ion Ratio Lower Upper

98 100

100 72.4 56.2 84.2



#51

4-Methyl-2-Pentanone

Concen: 3.901 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062729.D

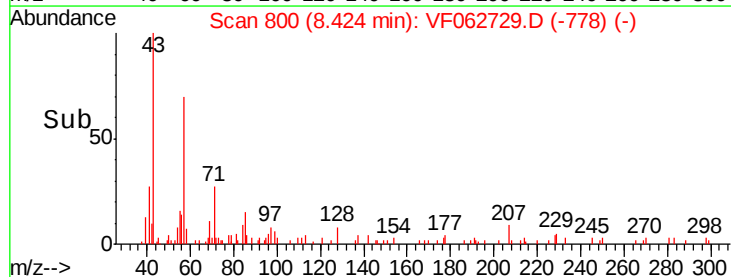
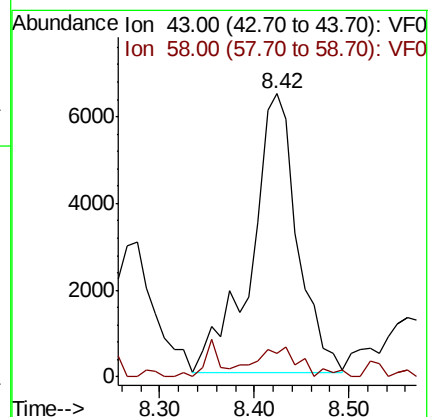
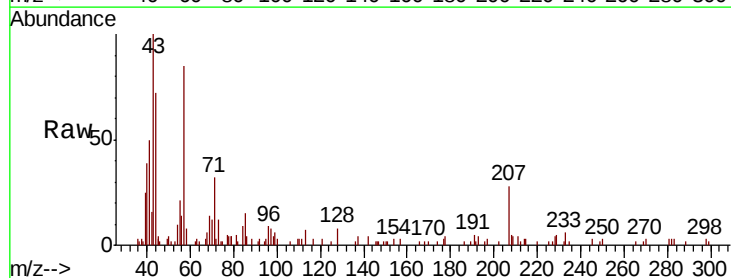
Acq: 23 May 2019 16:19

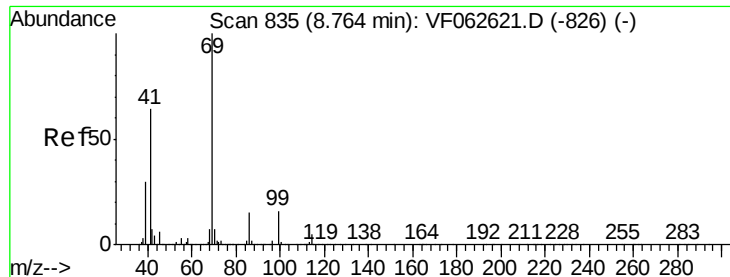
Tgt Ion: 43 Resp: 21715

Ion Ratio Lower Upper

43 100

58 8.4 34.9 52.3#





#56

Ethyl methacrylate

Concen: 13.741 ug/l

RT: 8.77 min Scan# 835

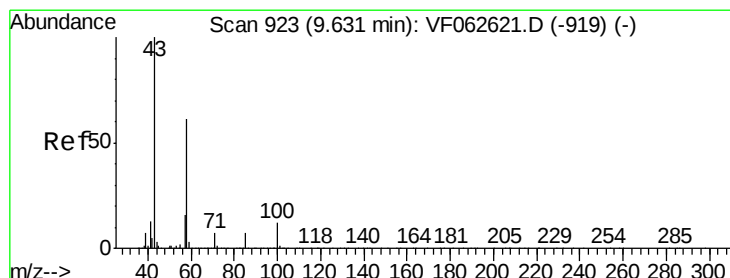
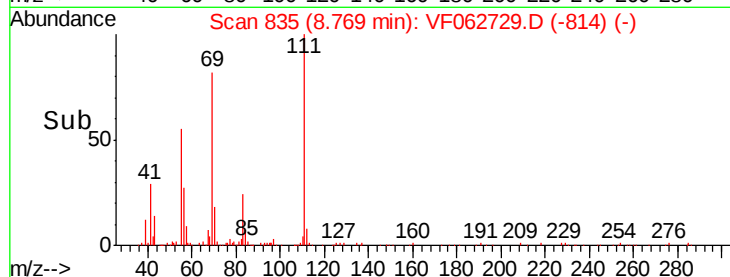
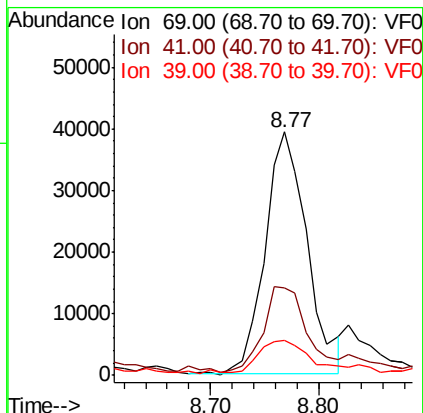
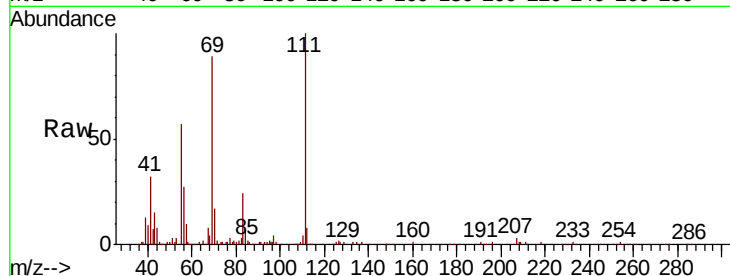
Delta R.T. 0.01 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69	Resp:	106623
Ion	Ratio	Lower	Upper
69	100		
41	36.0	51.4	77.2#
39	14.2	23.6	35.4#



#59

2-Hexanone

Concen: Below Cal

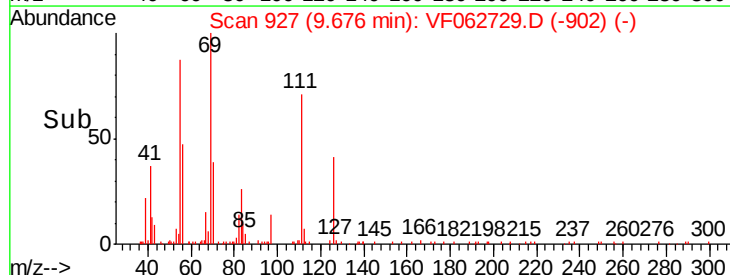
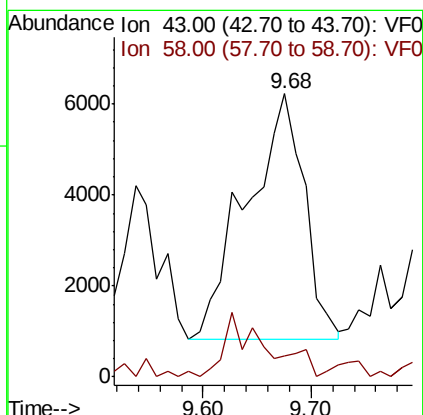
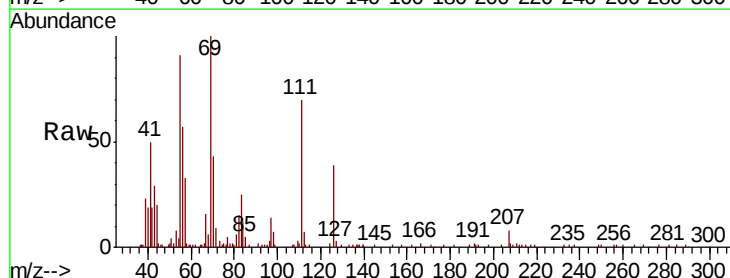
RT: 9.68 min Scan# 927

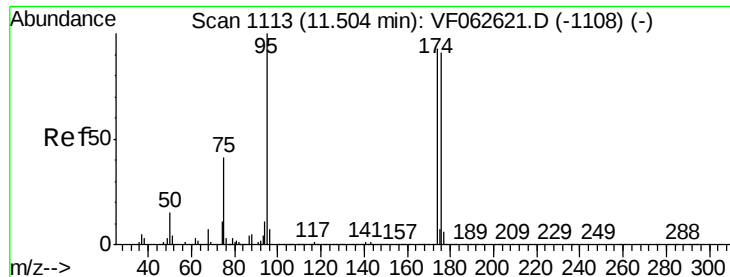
Delta R.T. 0.04 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Tgt Ion:	43	Resp:	20007
Ion	Ratio	Lower	Upper
43	100		
58	7.4	28.1	84.4#

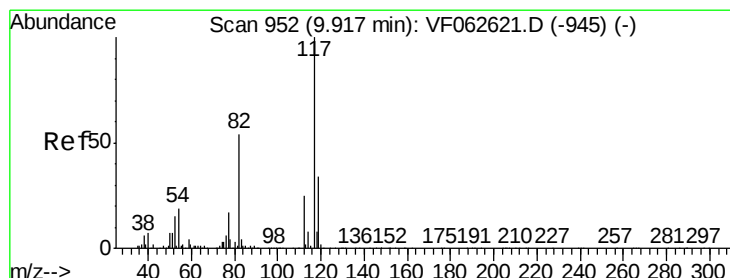
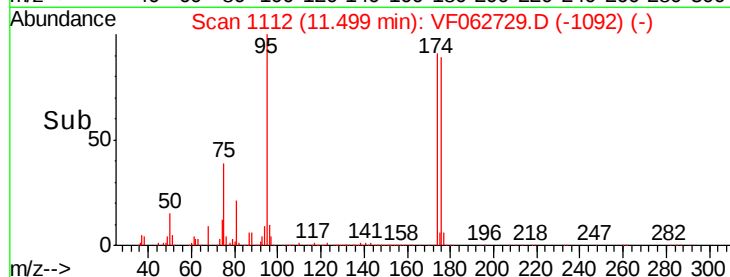
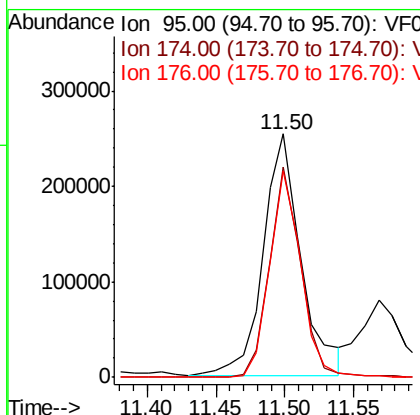
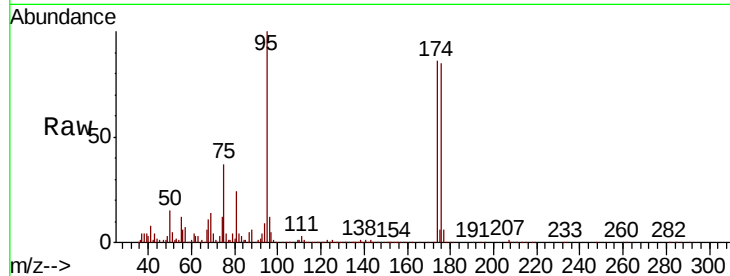




#62
4-Bromofluorobenzene
Concen: 46.397 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VF062729.D
Acq: 23 May 2019 16:19

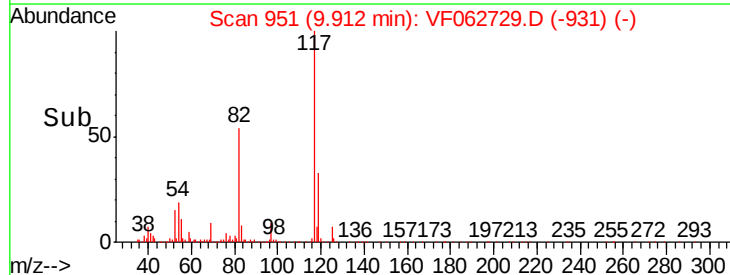
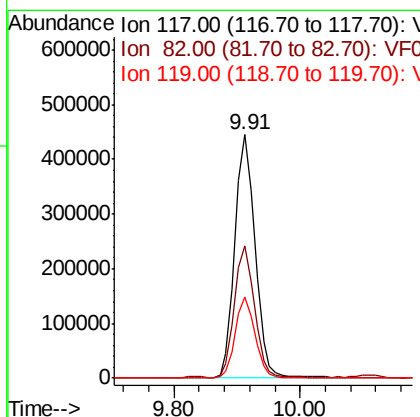
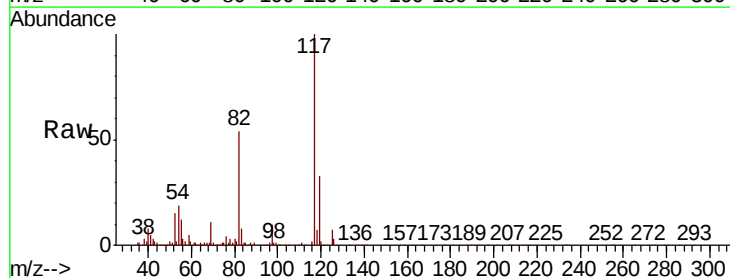
Instrument :
MSVOA_F
ClientSampleId :

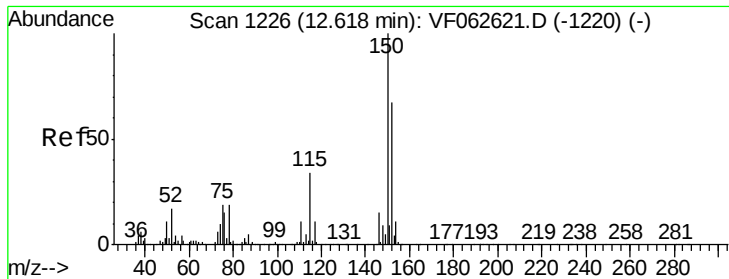
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	185.6
176	84.8	0.0	182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF062729.D
Acq: 23 May 2019 16:19

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.3	64.9
119	33.3	27.4	41.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Instrument :

MSVOA_F

ClientSampleId :

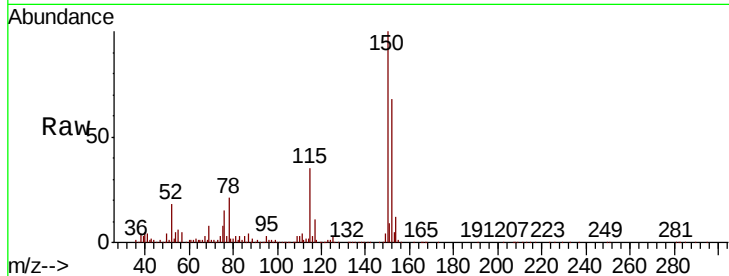
Tot Ion:152 Resp: 526196

Ion Ratio Lower Upper

152 100

115 51.7 25.2 75.6

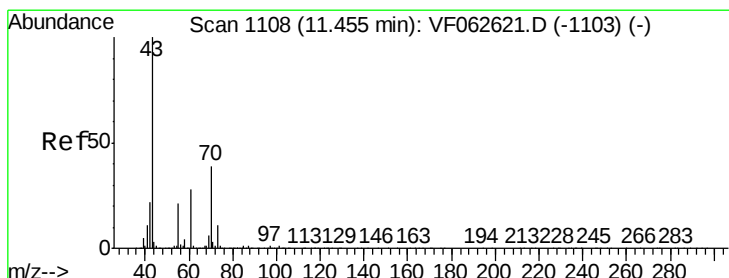
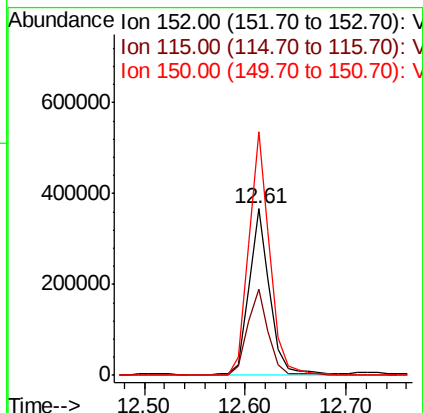
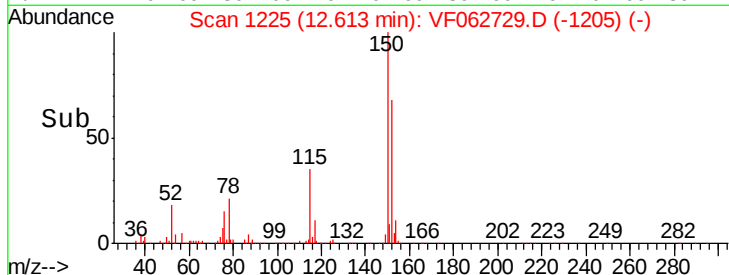
150 146.4 0.0 306.2



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: Below Cal

RT: 11.47 min Scan# 1109

Delta R.T. 0.02 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Tgt Ion: 43 Resp: 30505

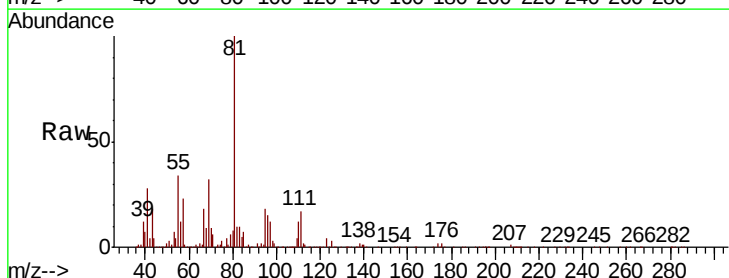
Ion Ratio Lower Upper

43 100

70 53.2 30.9 46.3#

55 191.3 17.0 25.4#

61 2.2 22.6 34.0#

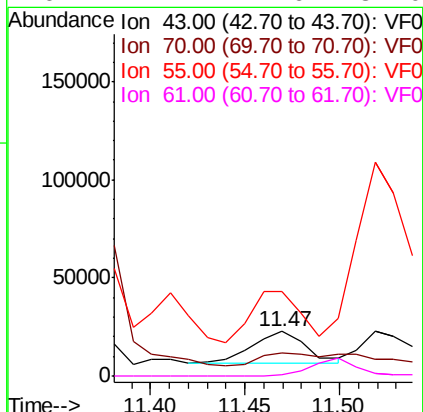
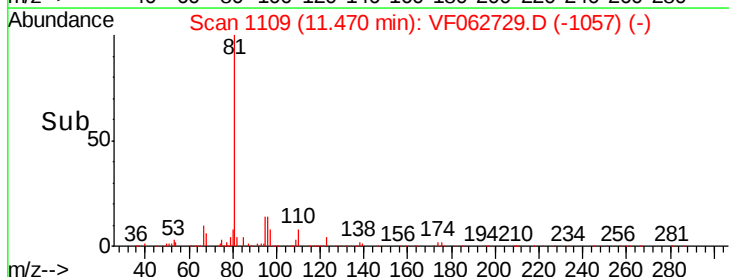


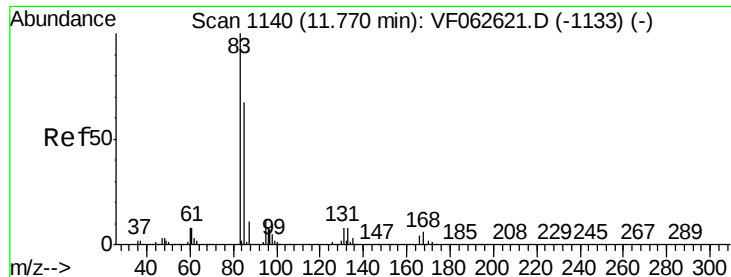
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 21.442 ug/l

RT: 11.75 min Scan# 1137

Delta R.T. -0.02 min

Lab File: VF062729.D

Acq: 23 May 2019 16:19

Instrument :

MSVOA_F

ClientSampleId :

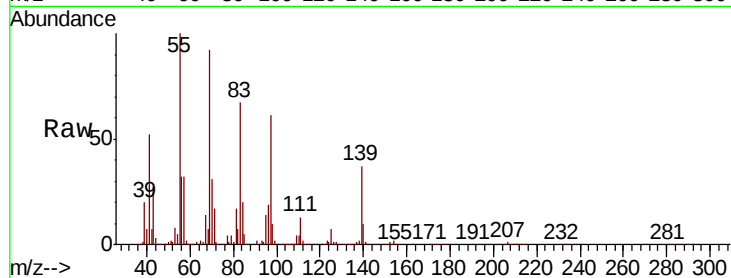
Tot Ion: 83 Resp: 165256

Ion Ratio Lower Upper

83 100

131 0.2 4.0 12.0#

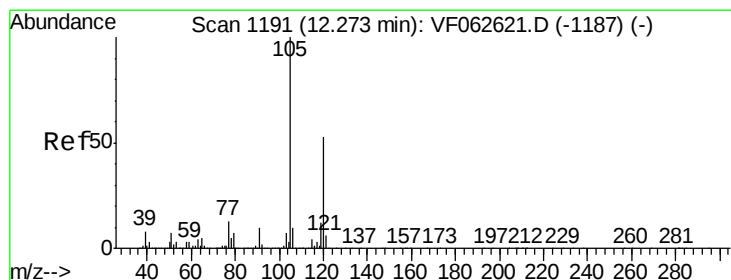
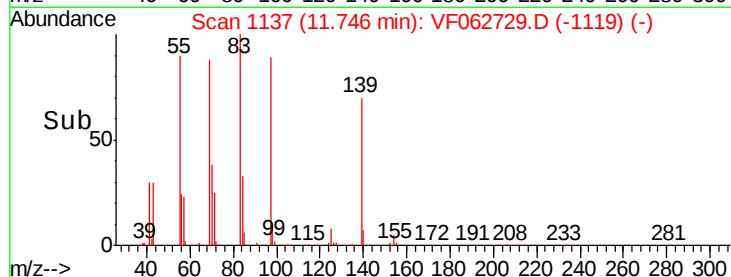
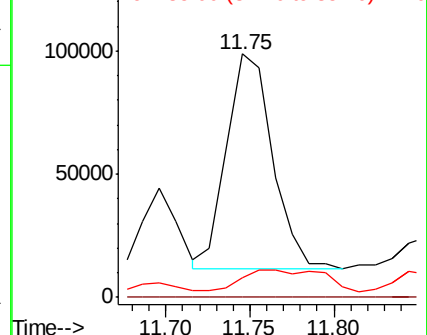
85 8.1 33.5 100.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#84

1,2,4-Trimethylbenzene

Concen: 1.964 ug/l

RT: 12.27 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VF062729.D

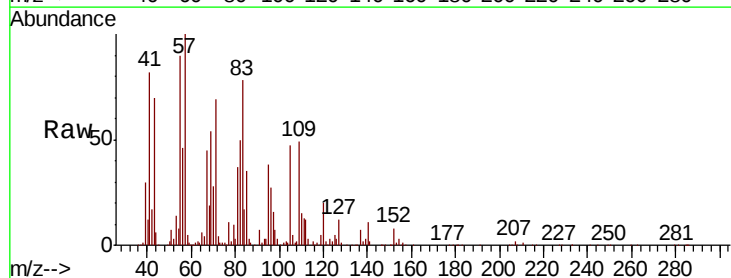
Acq: 23 May 2019 16:19

Tgt Ion:105 Resp: 57475

Ion Ratio Lower Upper

105 100

120 42.6 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

