

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061020.D
 Acq On : 14 Dec 2018 15:15
 Operator : VA/AP
 Sample : J6403-09RE
 Misc : 4.44g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:06:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	237353	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	414368	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	371364	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	163697	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	164168	58.71	ug/l	-0.04
Spiked Amount			Recovery	=	117.42%	
35) Dibromofluoromethane	4.10	113	179877	54.72	ug/l	-0.05
Spiked Amount			Recovery	=	109.44%	
50) Toluene-d8	7.54	98	430686	44.48	ug/l	-0.05
Spiked Amount			Recovery	=	88.96%	
62) 4-Bromofluorobenzene	11.40	95	192450	43.73	ug/l	-0.04
Spiked Amount			Recovery	=	87.46%	

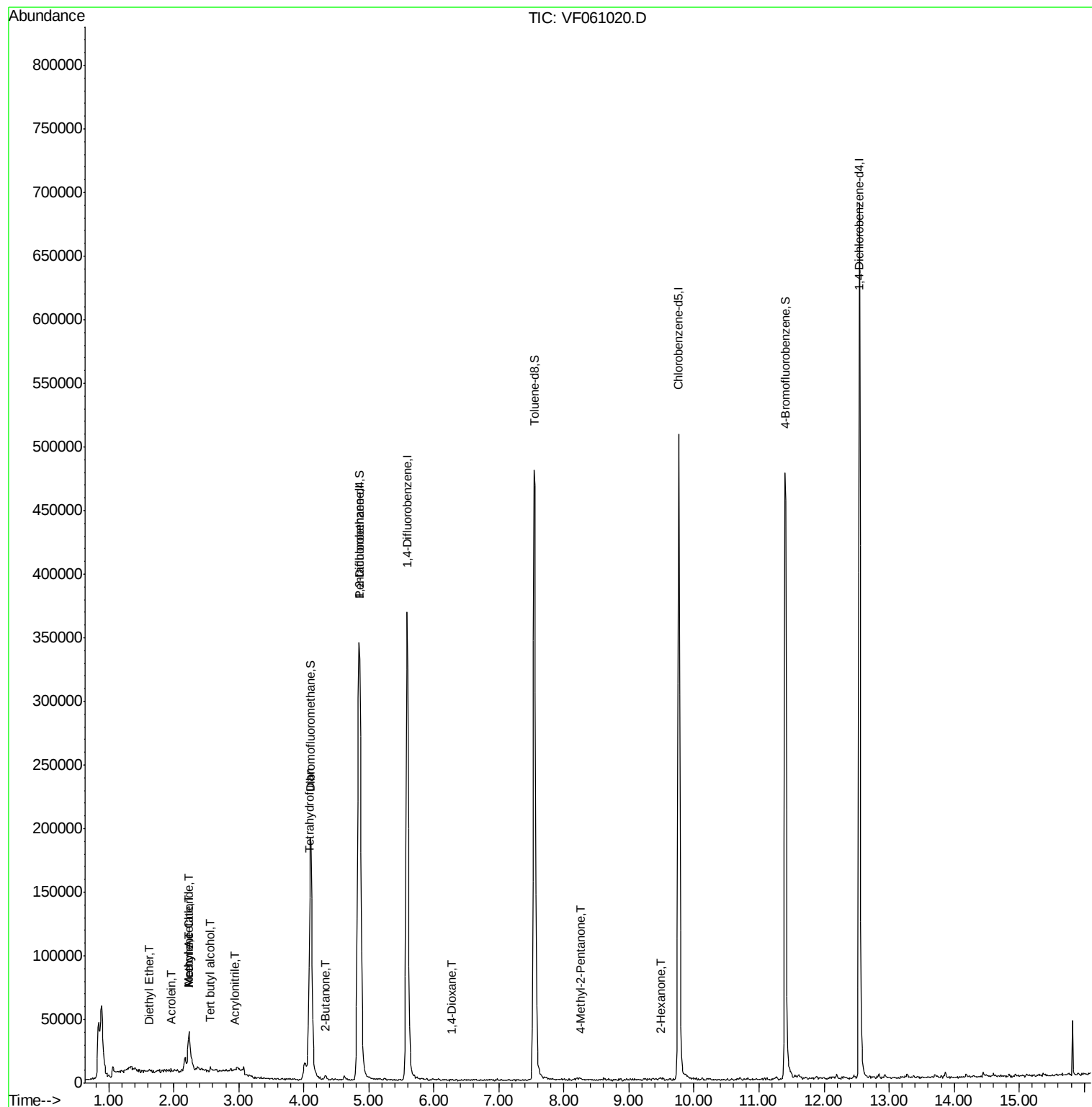
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	679	1.022	ug/l	52
11) Tert butyl alcohol	2.56	59	1139	9.937	ug/l #	62
13) Acrolein	1.97	56	740	6.814	ug/l	94
15) Acrylonitrile	2.93	53	520	2.024	ug/l #	7
16) Acetone	2.23	43	38462	74.594	ug/l	99
18) Methyl Acetate	2.23	43	37800	43.482	ug/l #	61
20) Methylene Chloride	2.23	84	7063	3.734	ug/l	91
25) 2-Butanone	4.34	43	5299	5.942	ug/l	96
29) Tetrahydrofuran	4.08	42	985	2.606	ug/l #	49
41) Methacrylonitrile	4.75	41	1045	Below Cal	#	60
43) Isopropyl Acetate	6.96	43	849	Below Cal	#	49
49) 1,4-Dioxane	6.29	88	82	6.627	ug/l #	5
51) 4-Methyl-2-Pentanone	8.26	43	1909	1.108	ug/l	93
59) 2-Hexanone	9.49	43	1901	1.573	ug/l	98
95) Naphthalene	14.45	128	2071	Below Cal	#	87

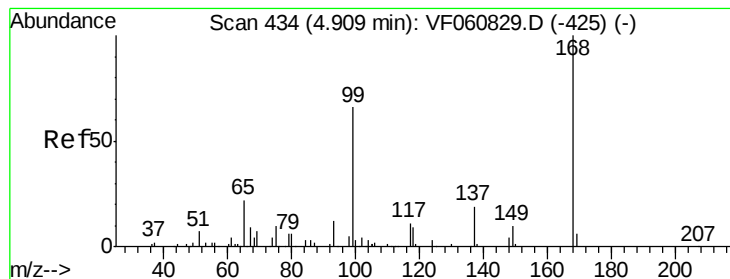
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

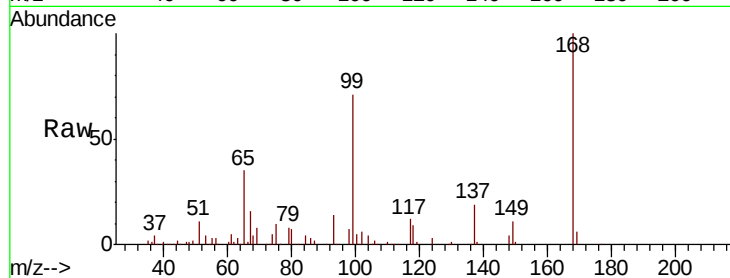
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 237353

Ion Ratio Lower Upper

168 100

99 71.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF060829.D (-425) (-)

Ion 99.00 (98.70 to 99.70): VF060829.D (-425) (-)

80000

60000

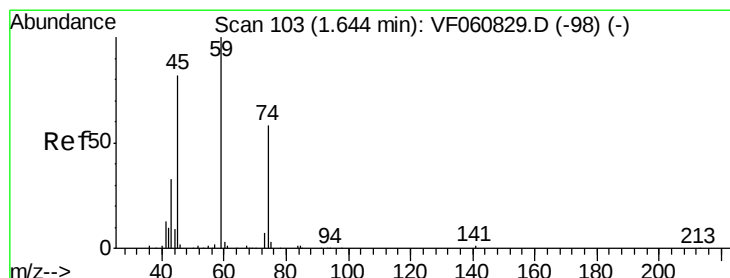
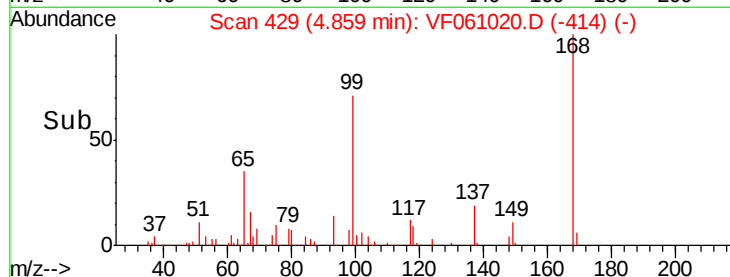
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#8

Diethyl Ether

Concen: 1.022 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF061020.D

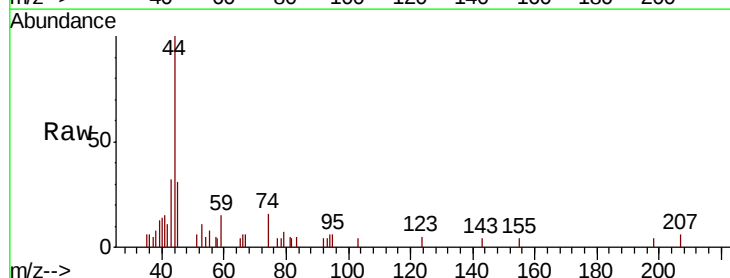
Acq: 14 Dec 2018 15:15

Tgt Ion: 74 Resp: 679

Ion Ratio Lower Upper

74 100

45 201.2 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF060829.D (-98) (-)

Ion 45.00 (44.70 to 45.70): VF060829.D (-98) (-)

800

600

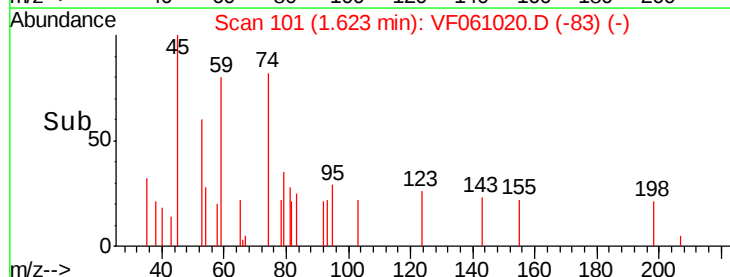
400

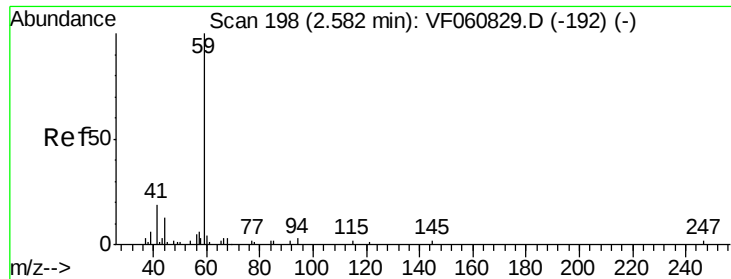
200

0

1.60 1.65 1.70

Time-->

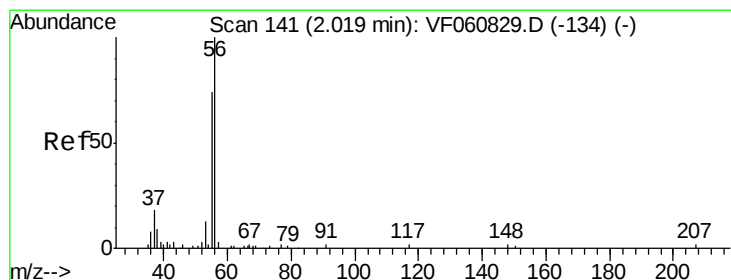
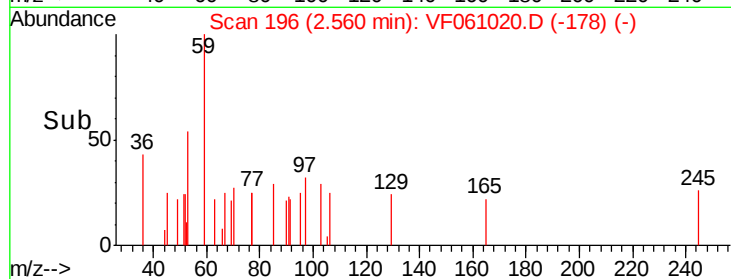
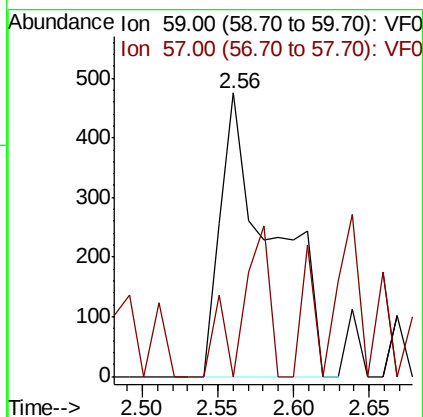
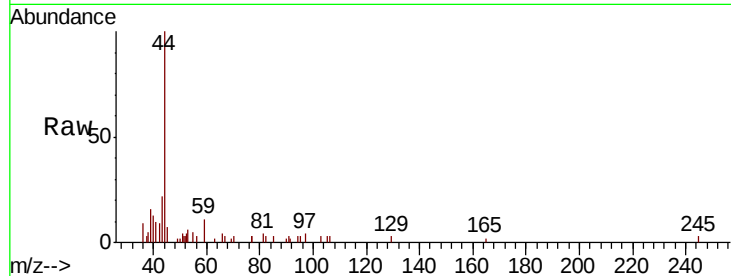




#11
Tert butyl alcohol
Concen: 9.937 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

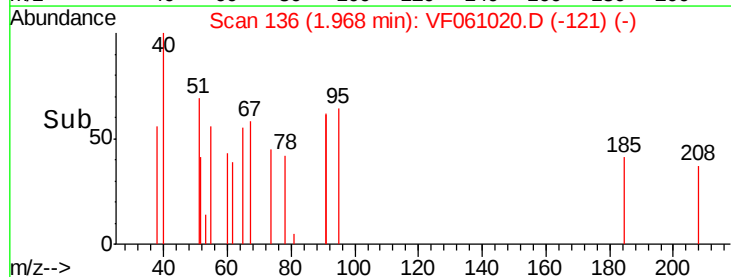
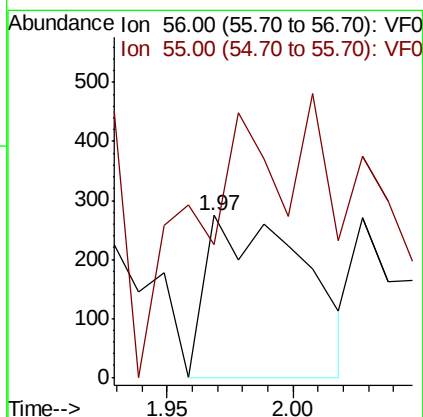
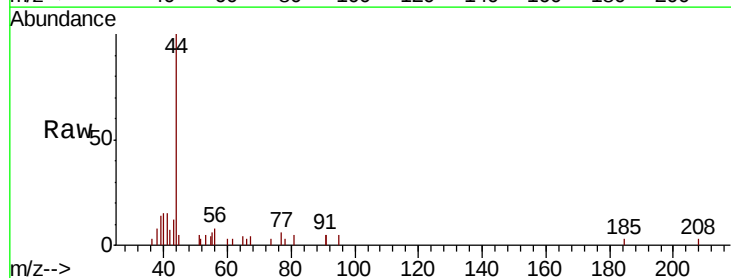
Instrument :
MSVOA_F
ClientSampleId :

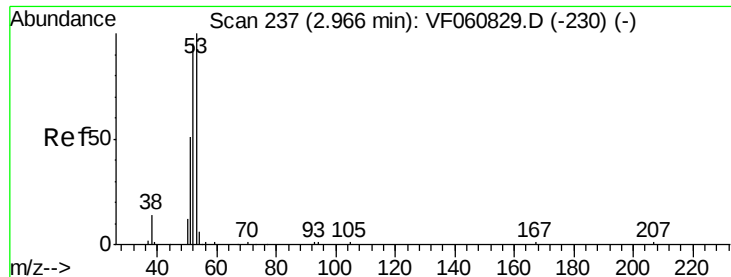
Tot Ion: 59 Resp: 1139
Ion Ratio Lower Upper
59 100
57 0.0 12.7 19.1#



#13
Acrolein
Concen: 6.814 ug/l
RT: 1.97 min Scan# 136
Delta R.T. -0.05 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Tgt Ion: 56 Resp: 740
Ion Ratio Lower Upper
56 100
55 81.8 61.2 91.8





#15

Acrylonitrile

Concen: 2.024 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

Instrument :

MSVOA_F

ClientSampleId :

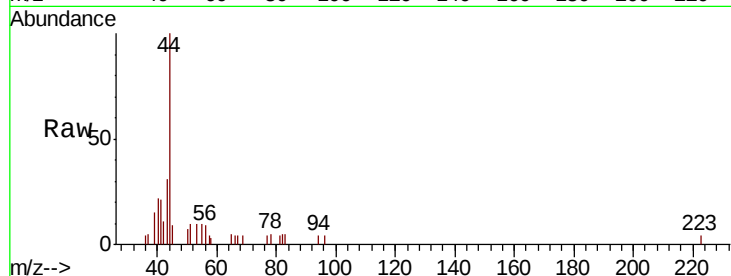
Tot Ion: 53 Resp: 520

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

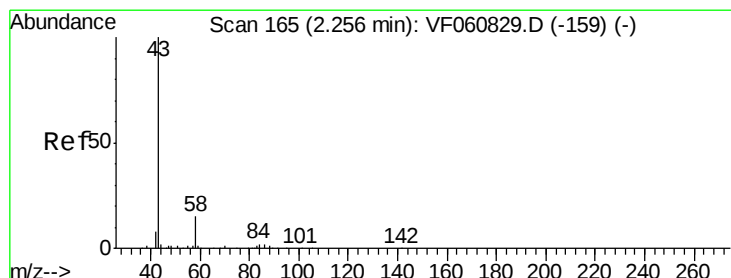
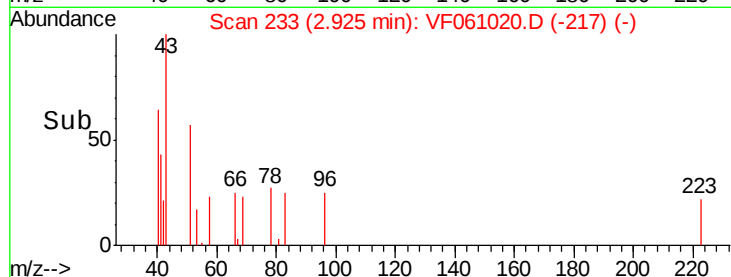
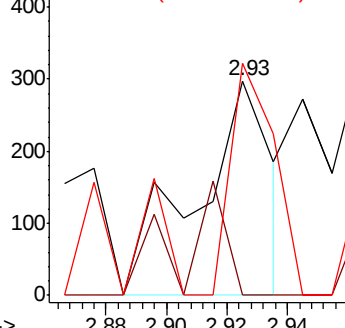
51 108.1 40.7 61.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 74.594 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061020.D

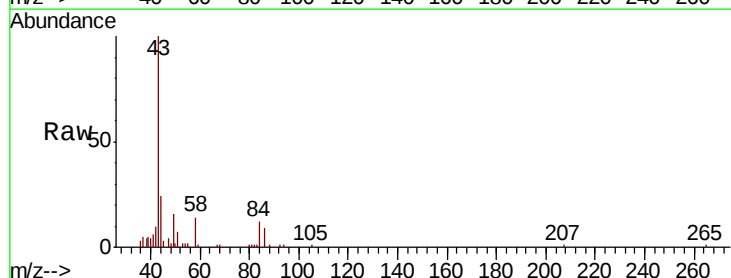
Acq: 14 Dec 2018 15:15

Tgt Ion: 43 Resp: 38462

Ion Ratio Lower Upper

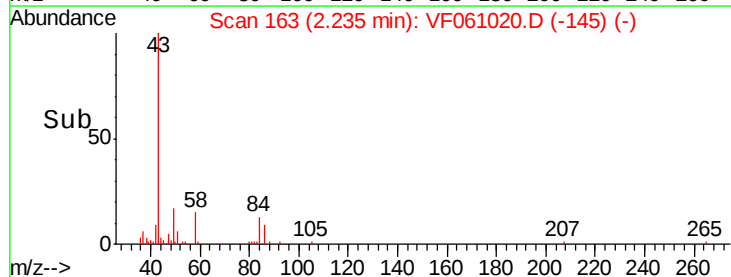
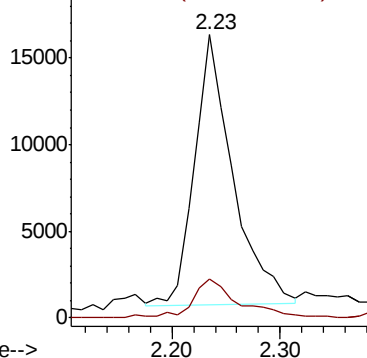
43 100

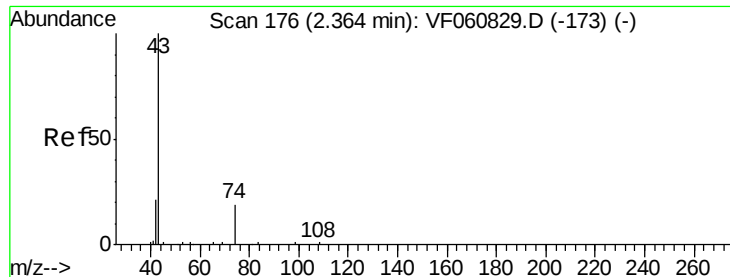
58 13.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

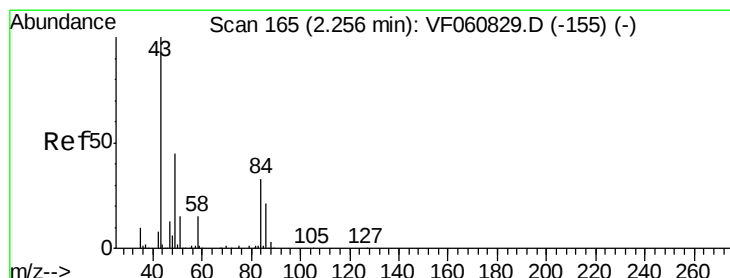
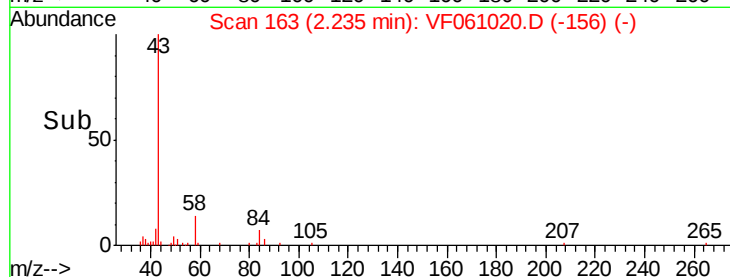
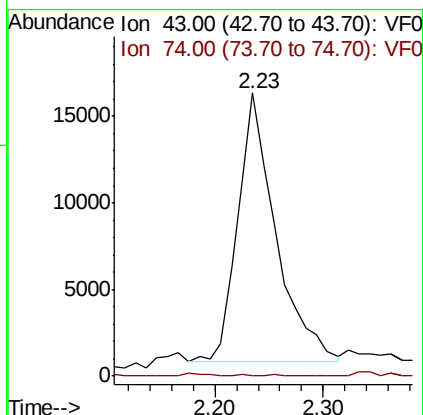
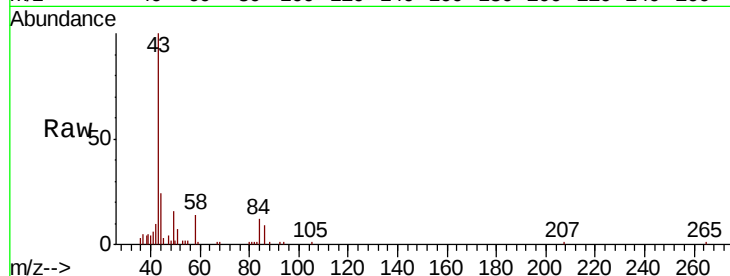




#18
Methvl Acetate
Concen: 43.482 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.13 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

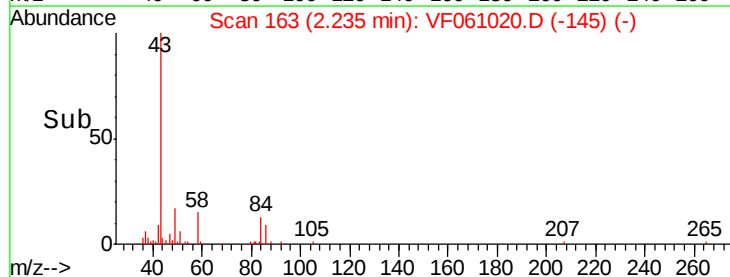
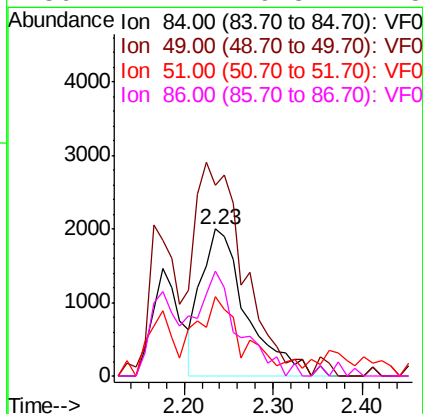
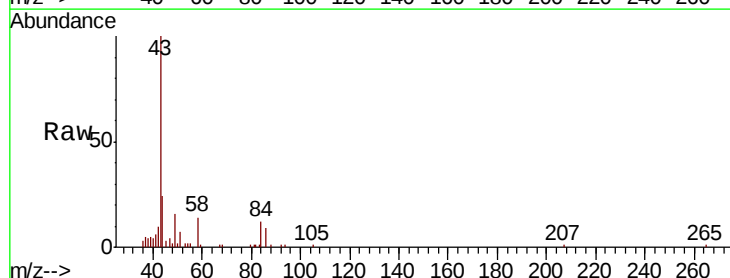
Instrument :
MSVOA_F
ClientSampleId :

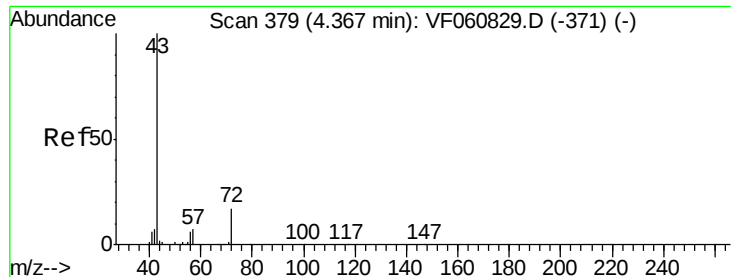
Tot Ion: 43 Resp: 37800
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 3.734 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Tgt Ion: 84 Resp: 7063
Ion Ratio Lower Upper
84 100
49 130.2 111.3 166.9
51 53.6 38.0 57.0
86 71.4 49.8 74.8





#25

2-Butanone

Concen: 5.942 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

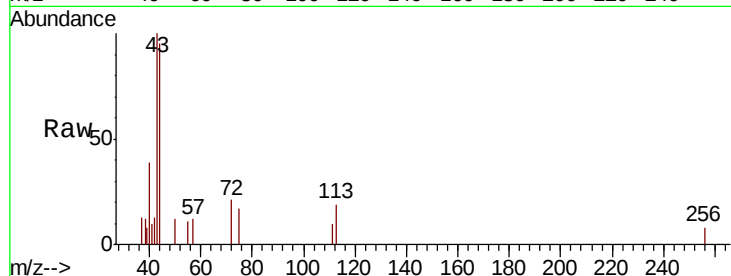
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5299

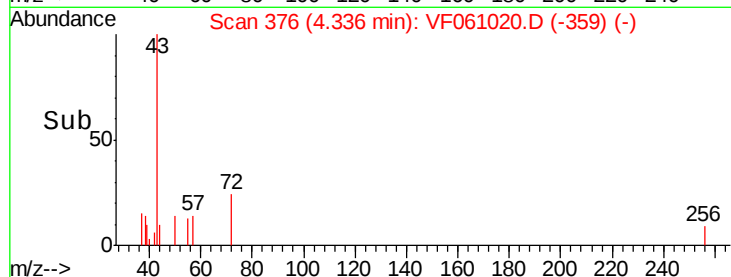
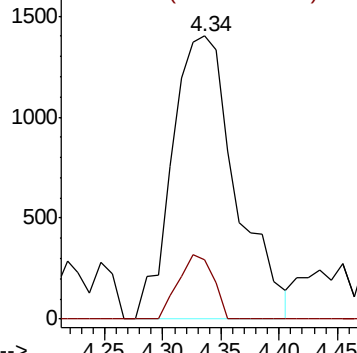
Ion Ratio Lower Upper

43 100

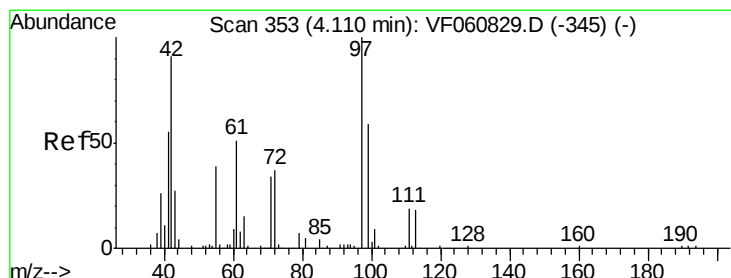
72 21.0 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 2.606 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

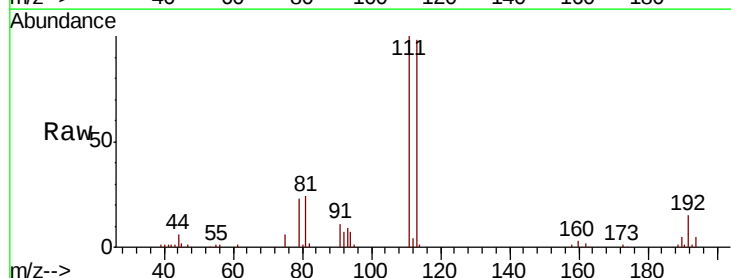
Tgt Ion: 42 Resp: 985

Ion Ratio Lower Upper

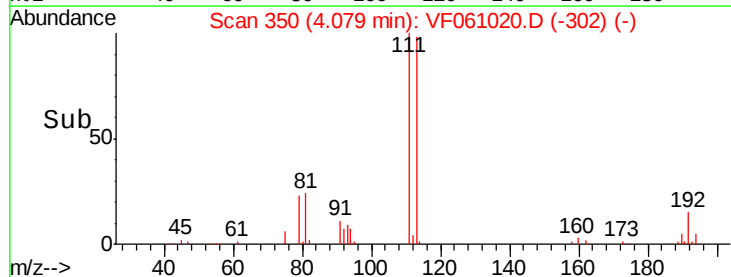
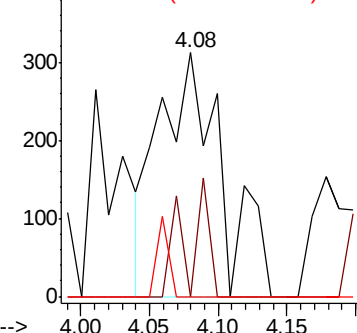
42 100

72 7.7 31.9 47.9#

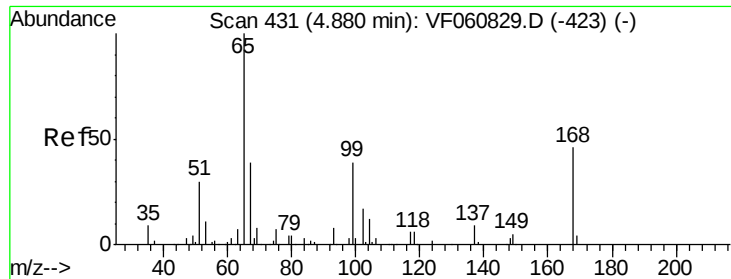
71 6.1 28.7 43.1#



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



Time-->



#33

1,2-Dichloroethane-d4

Concen: 58.713 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

Instrument :

MSVOA_F

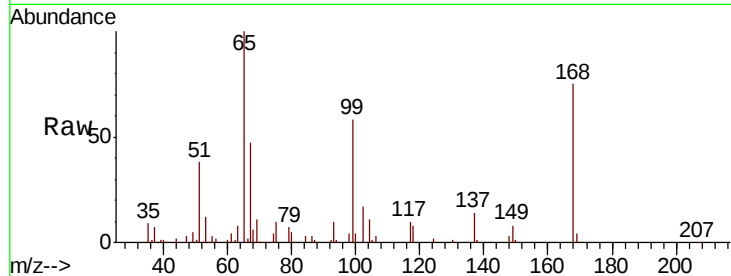
ClientSampled :

Tot Ion: 65 Resp: 164168

Ion Ratio Lower Upper

65 100

67 46.7 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

60000

50000

40000

30000

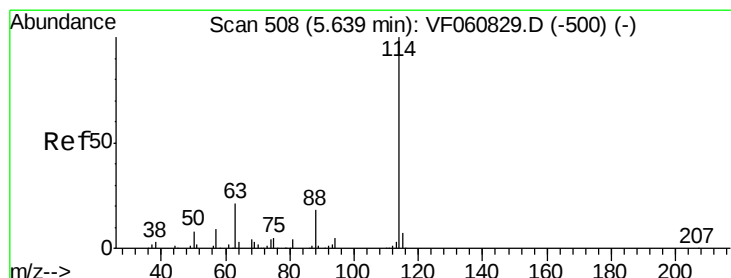
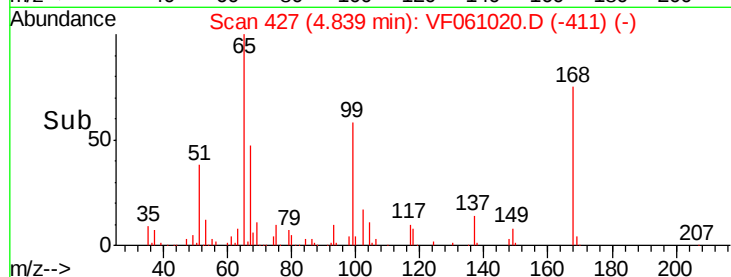
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF061020.D

Acq: 14 Dec 2018 15:15

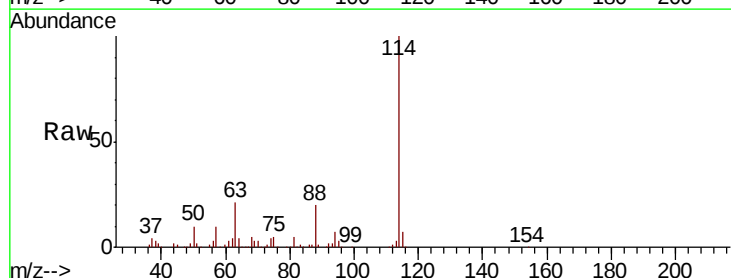
Tgt Ion: 114 Resp: 414368

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

88 20.1 0.0 36.6



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

200000

150000

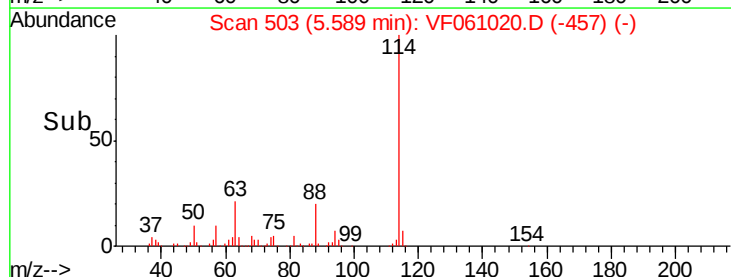
100000

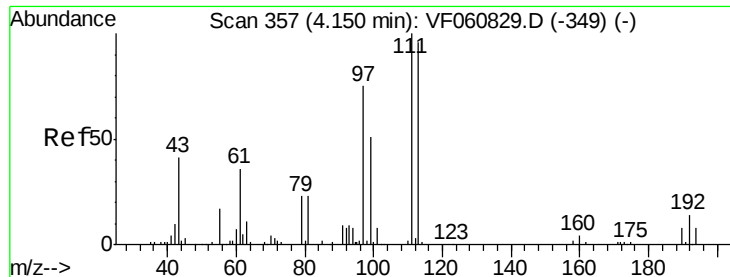
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->

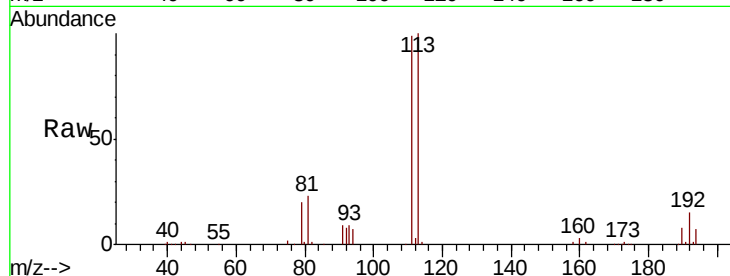




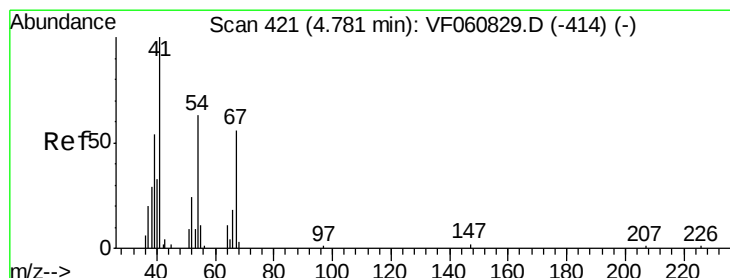
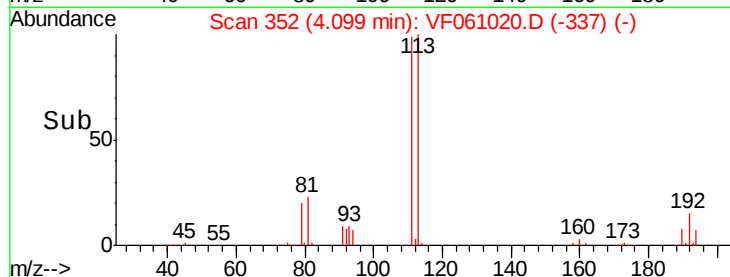
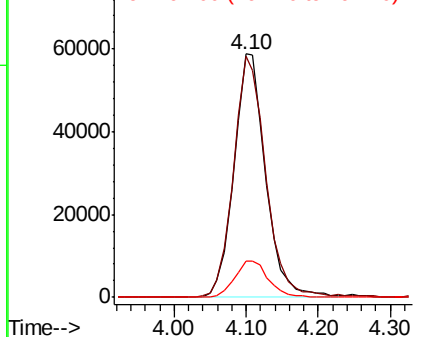
#35
 Dibromofluoromethane
 Concen: 54.719 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.05 min
 Lab File: VF061020.D
 Acq: 14 Dec 2018 15:15

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:113 Resp: 179877
 Ion Ratio Lower Upper
 113 100
 111 98.9 83.0 124.6
 192 14.9 12.3 18.5

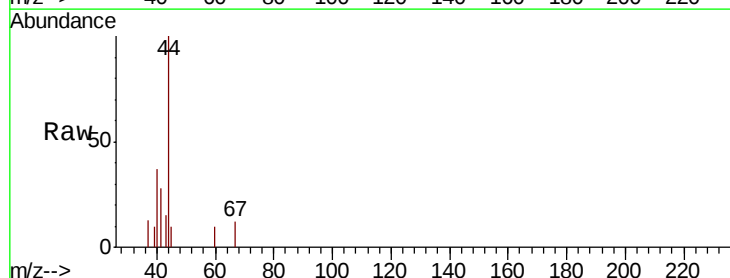


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

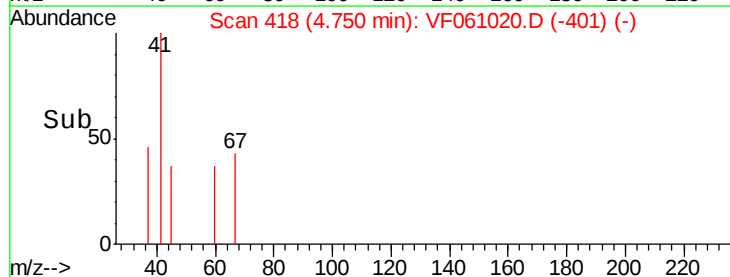
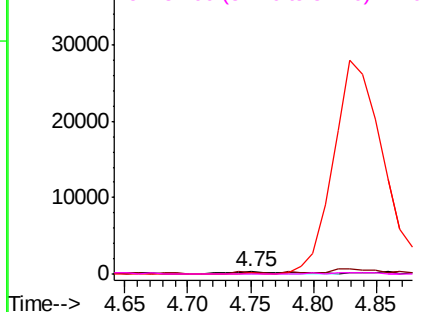


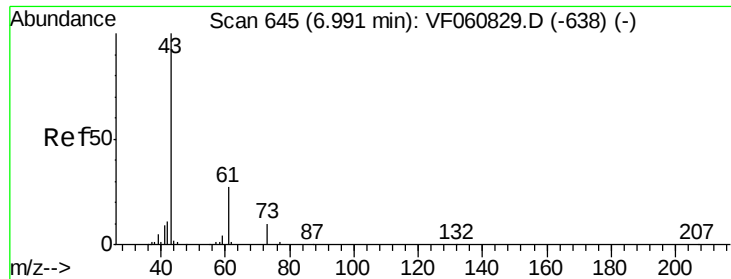
#41
 Methacrylonitrile
 Concen: Below Cal
 RT: 4.75 min Scan# 418
 Delta R.T. -0.03 min
 Lab File: VF061020.D
 Acq: 14 Dec 2018 15:15

Tgt Ion: 41 Resp: 1045
 Ion Ratio Lower Upper
 41 100
 39 36.4 53.0 79.6#
 67 42.9 43.8 65.6#
 52 0.0 37.8 56.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0
 Ion 39.00 (38.70 to 39.70): VF0
 Ion 67.00 (66.70 to 67.70): VF0
 Ion 52.00 (51.70 to 52.70): VF0



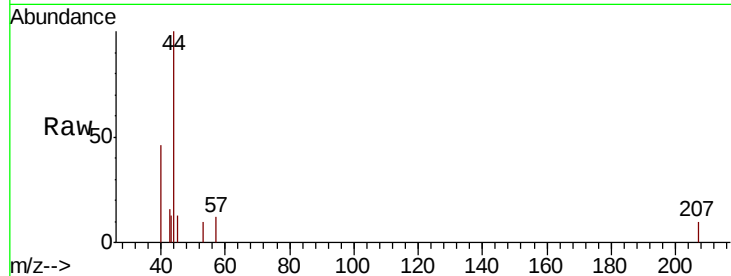


#43

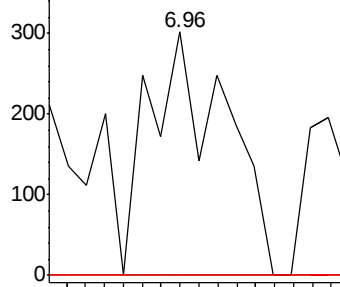
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF061020.D
 Acq: 14 Dec 2018 15:15

Instrument :
 MSVOA_F
 ClientSampleId :

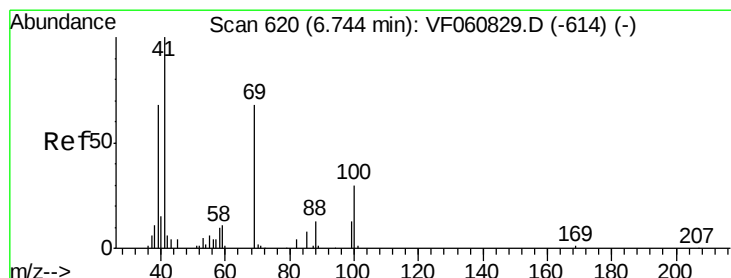
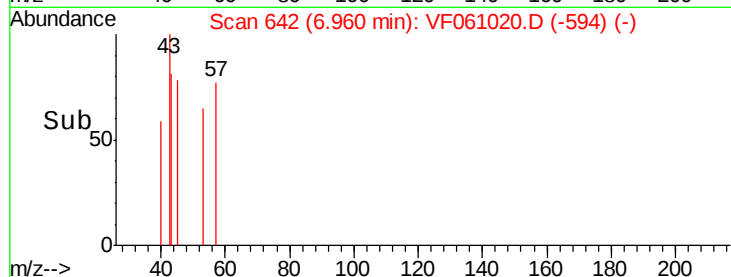
Tot Ion: 43 Resp: 849
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



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



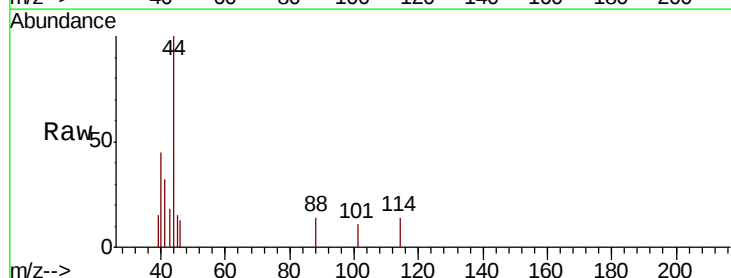
Time--> 6.90 6.95 7.00



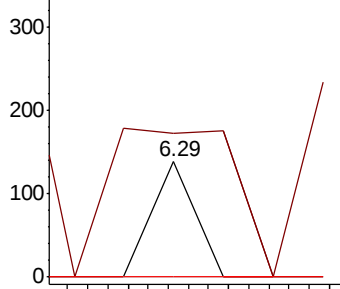
#49

1,4-Dioxane
 Concen: 6.627 ug/l
 RT: 6.29 min Scan# 574
 Delta R.T. -0.46 min
 Lab File: VF061020.D
 Acq: 14 Dec 2018 15:15

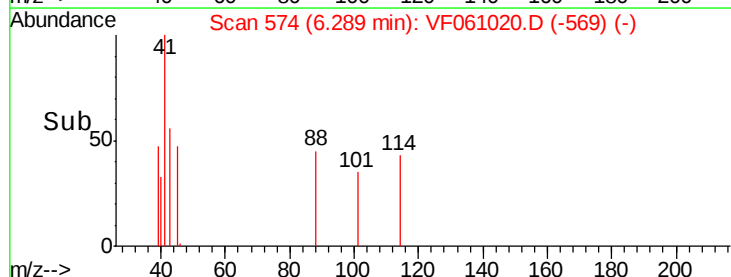
Tgt Ion: 88 Resp: 82
 Ion Ratio Lower Upper
 88 100
 43 125.4 42.0 63.0#
 58 0.0 61.8 92.8#

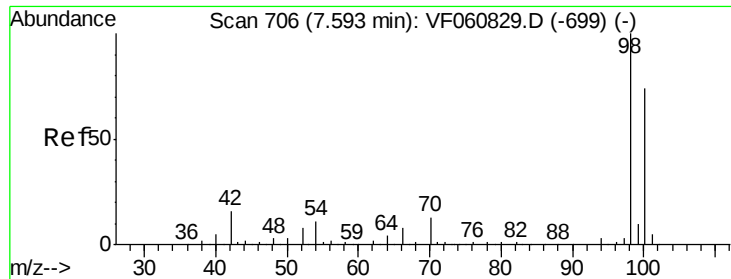


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0



Time--> 6.28 6.30

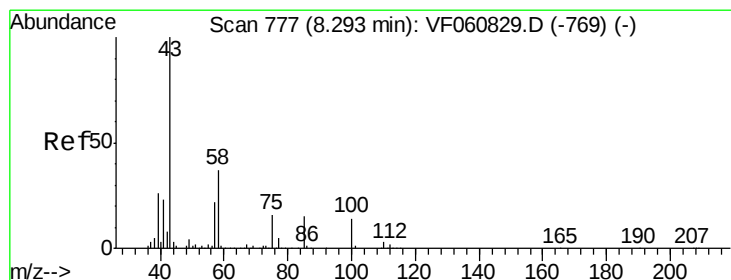
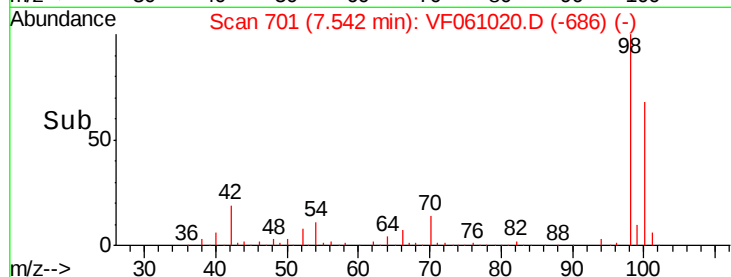
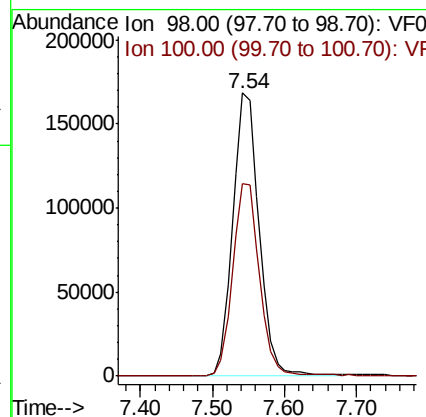
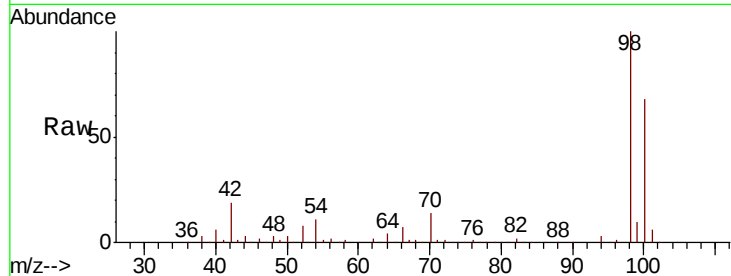




#50
Toluene-d8
Concen: 44.477 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

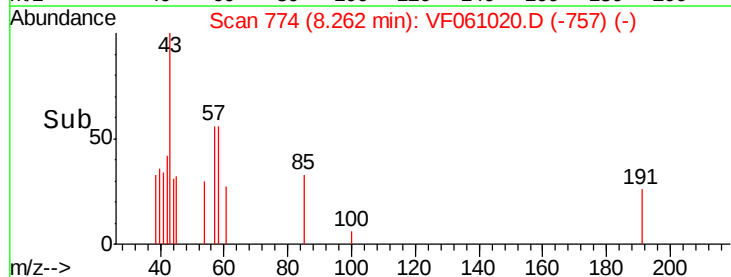
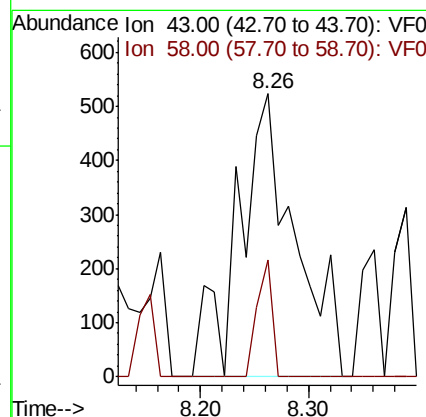
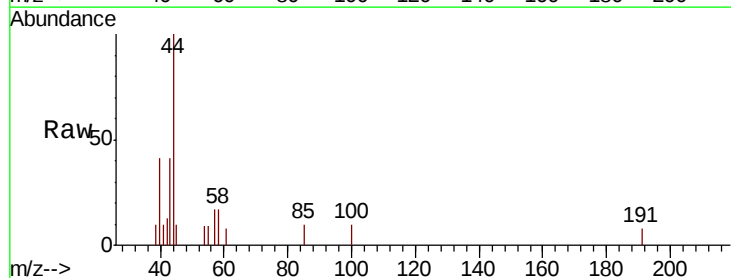
Instrument :
MSVOA_F
ClientSampleId :

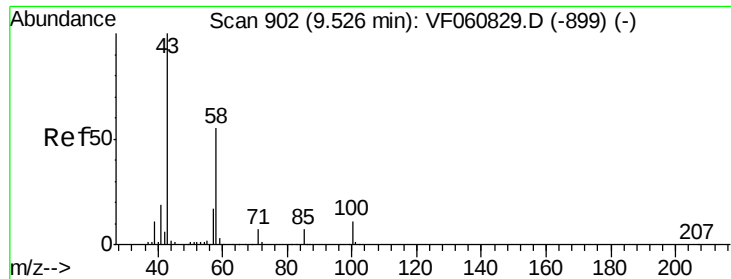
Tot Ion: 98 Resp: 430686
Ion Ratio Lower Upper
98 100
100 67.9 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 1.108 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.03 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Tgt Ion: 43 Resp: 1909
Ion Ratio Lower Upper
43 100
58 41.5 29.7 44.5

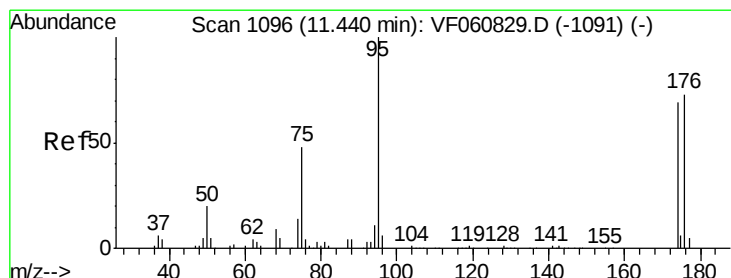
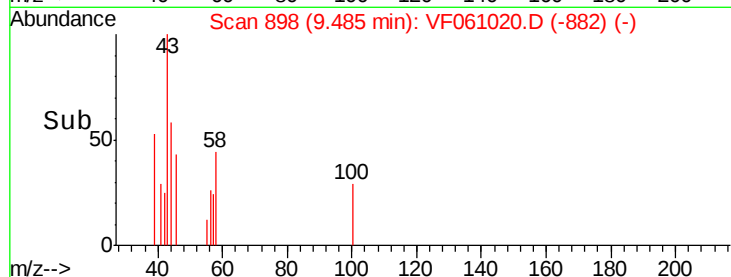
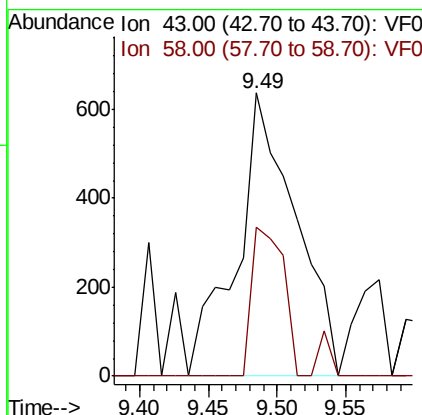
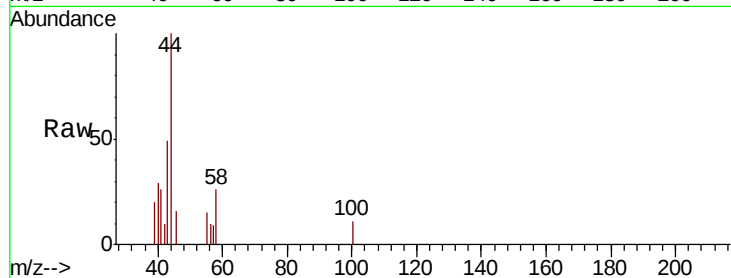




#59
2-Hexanone
Concen: 1.573 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

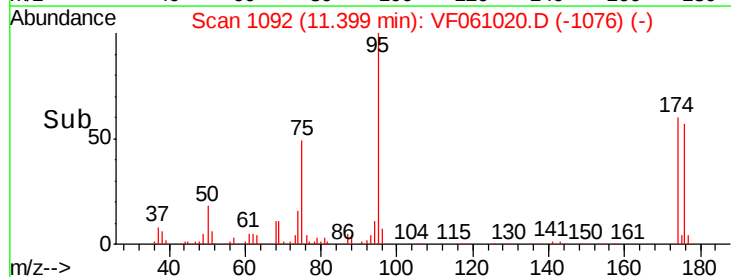
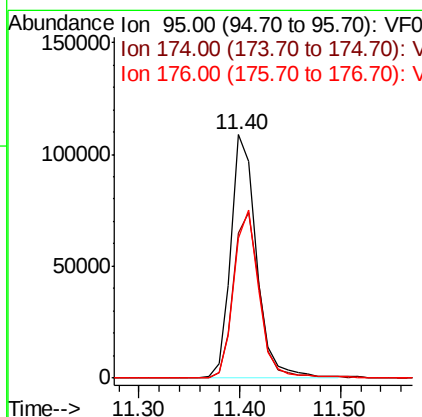
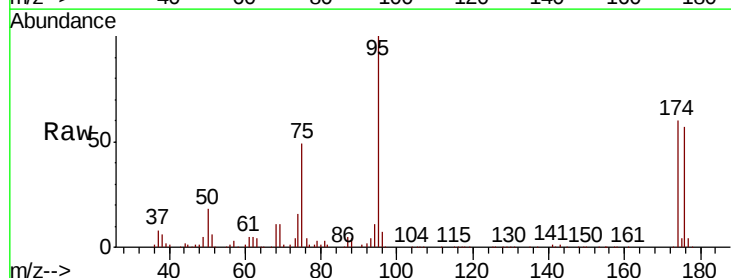
Instrument :
MSVOA_F
ClientSampleId :

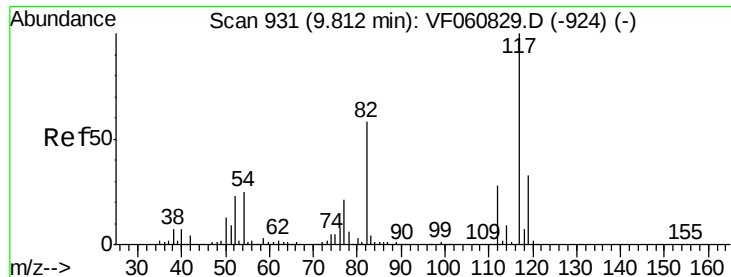
Tot Ion: 43 Resp: 1901
Ion Ratio Lower Upper
43 100
58 52.4 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 43.729 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.04 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Tgt Ion: 95 Resp: 192450
Ion Ratio Lower Upper
95 100
174 59.8 0.0 138.2
176 57.4 0.0 146.2

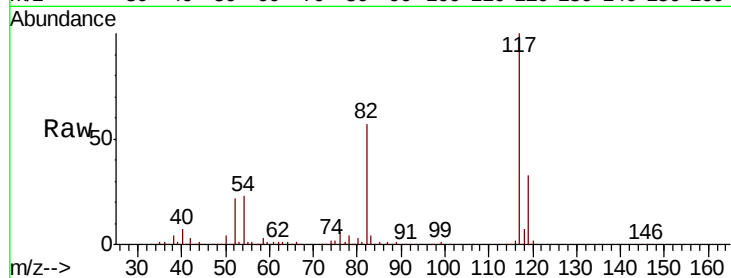




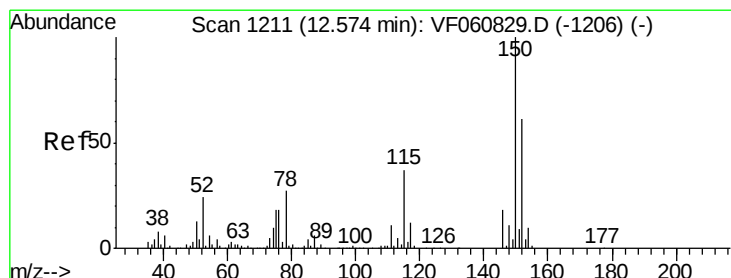
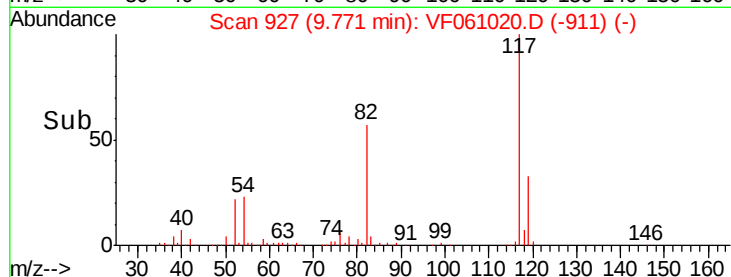
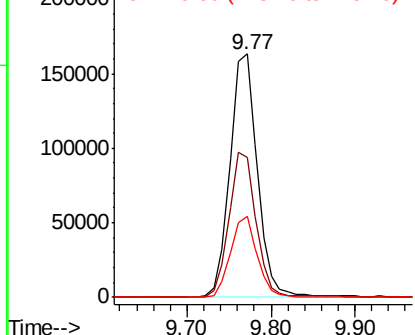
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 371364
Ion Ratio Lower Upper
117 100
82 57.4 46.6 69.8
119 33.2 26.4 39.6

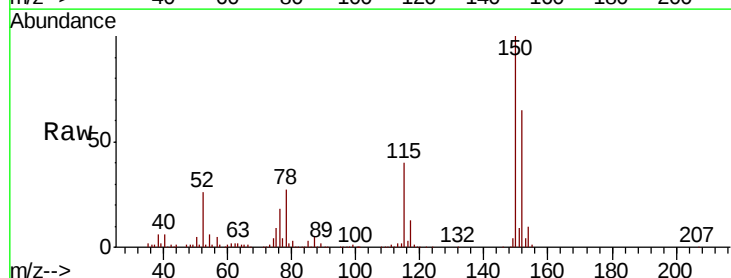


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

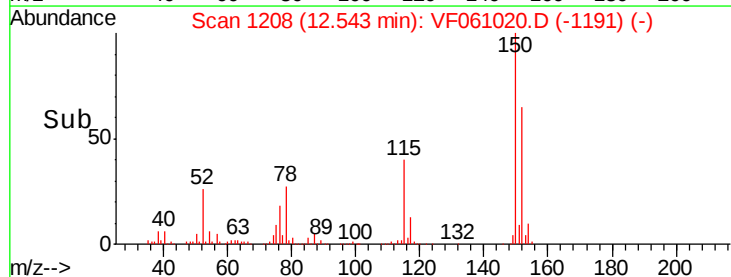
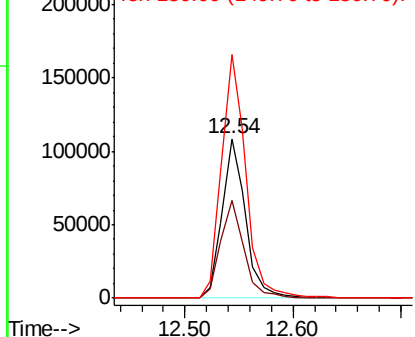


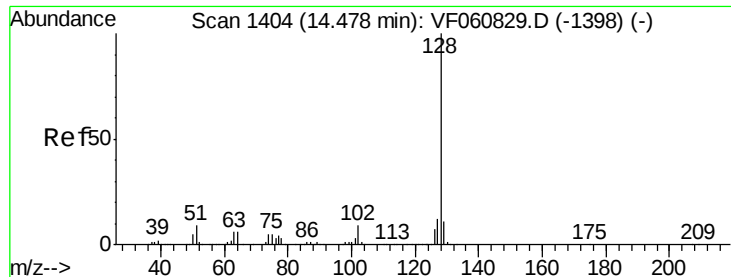
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Tgt Ion:152 Resp: 163697
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.5
150 152.9 0.0 327.6



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





#95
Naphthalene
Concen: Below Cal
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF061020.D
Acq: 14 Dec 2018 15:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.5	9.9	14.9#
129	7.0	9.1	13.7#

