

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060114.D
 Acq On : 24 Aug 2018 21:50
 Operator : VA/AP
 Sample : J4636-01
 Misc : 6.02g/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BYR-2-E(0-1)

Quant Time: Aug 25 03:48:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	128061	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	195851	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	153120	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	41599	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	66133	37.73	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	75.46%	
35) Dibromofluoromethane	4.27	113	70304	45.71	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	91.42%	
50) Toluene-d8	7.70	98	142351	32.59	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	65.18%	
62) 4-Bromofluorobenzene	11.50	95	42009	18.18	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	36.36%	

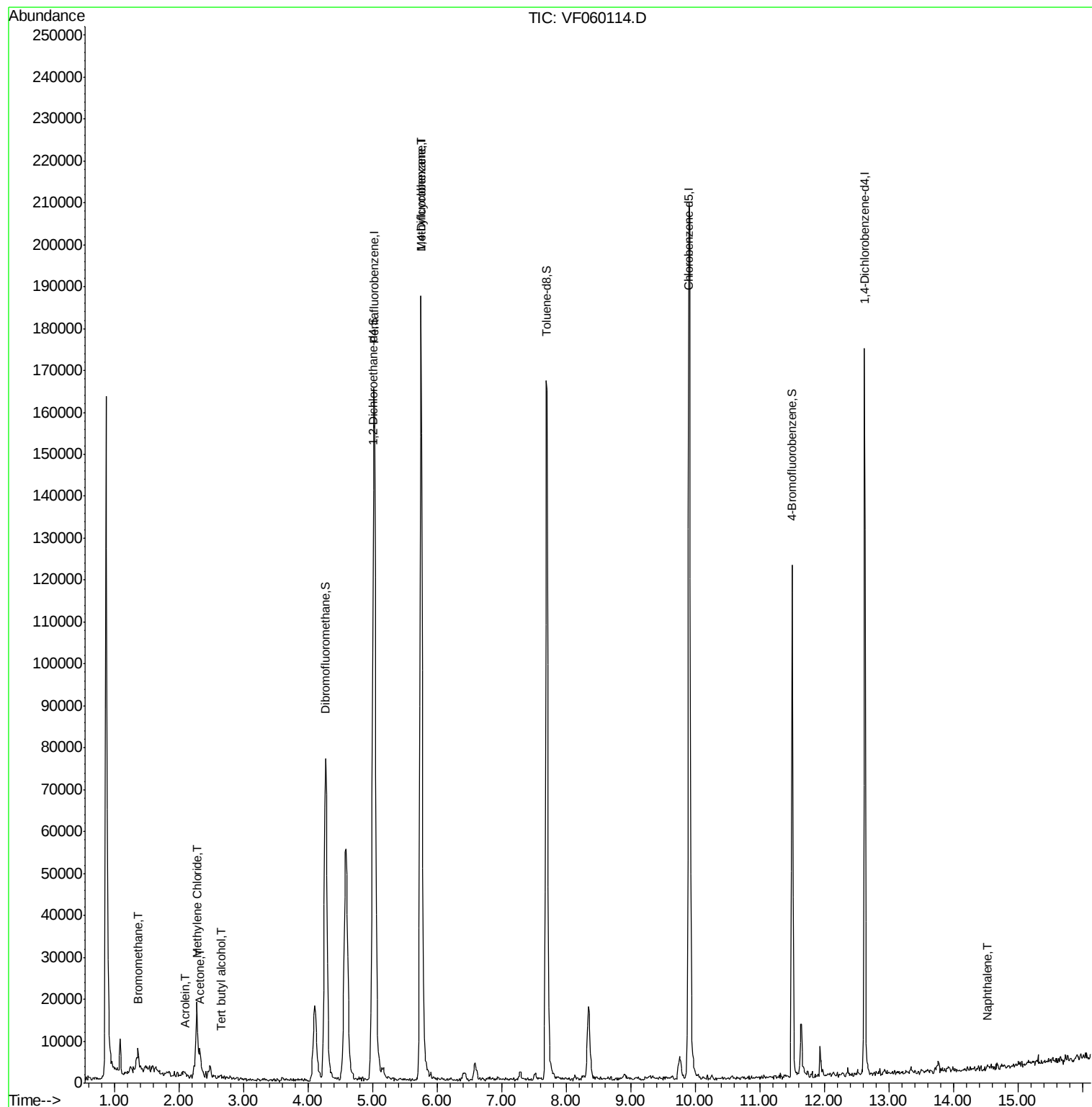
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	633	Below Cal		91
5) Bromomethane	1.36	94	945	1.19 ug/l	#	40
11) Tert butyl alcohol	2.64	59	504	5.41 ug/l	#	80
13) Acrolein	2.08	56	90	27.74 ug/l		85
16) Acetone	2.32	43	4834	10.49 ug/l	#	66
18) Methyl Acetate	2.44	43	562	Below Cal	#	60
20) Methylene Chloride	2.28	84	8716	4.99 ug/l	#	84
39) Methylcyclohexane	5.76	83	2885	1.67 ug/l	#	44
52) Toluene	7.76	92	381	Below Cal	#	27
68) m/p-Xylenes	10.26	106	64	Below Cal	#	43
95) Naphthalene	14.52	128	298	2.47 ug/l	#	69

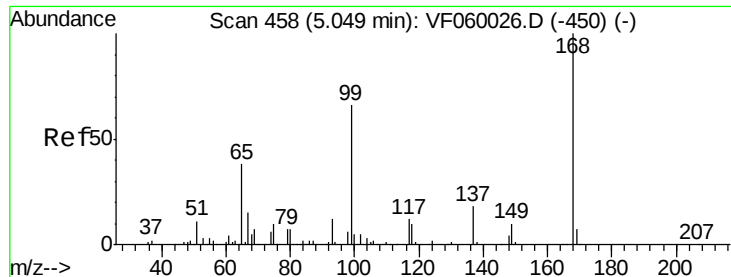
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

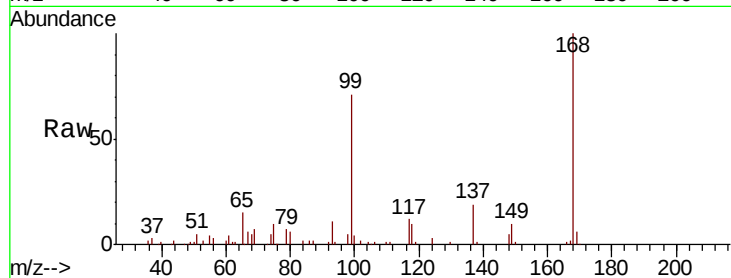
BYR-2-E(0-1)

Tot Ion:168 Resp: 128061

Ion Ratio Lower Upper

168 100

99 71.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

40000

30000

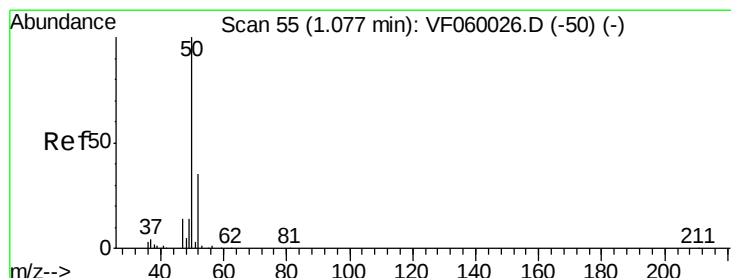
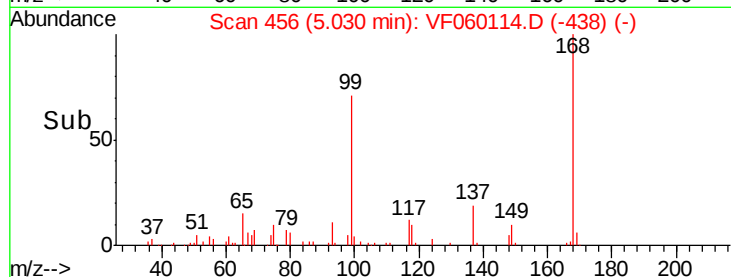
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060114.D

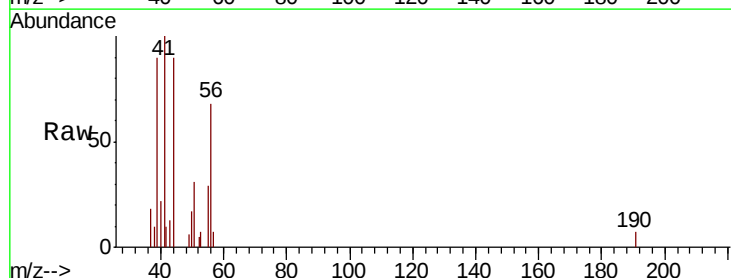
Acq: 24 Aug 2018 21:50

Tgt Ion: 50 Resp: 633

Ion Ratio Lower Upper

50 100

52 29.4 27.6 41.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

400

300

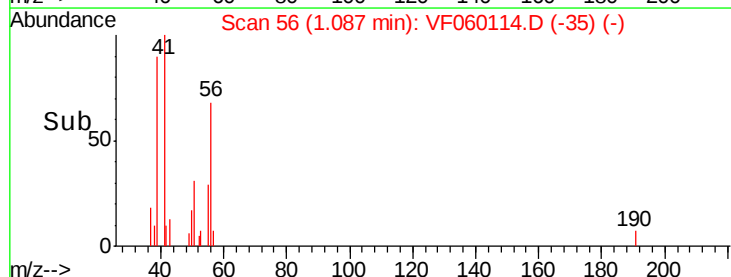
200

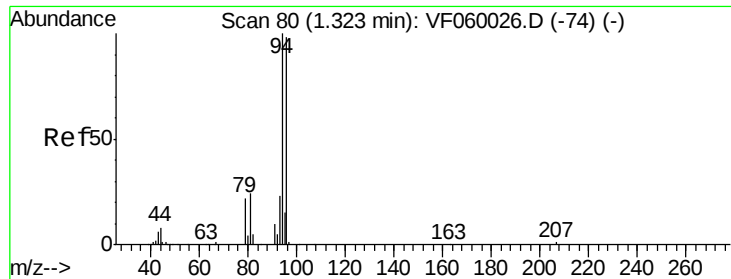
100

0

1.05 1.10 1.15

Time-->





#5

Bromomethane

Concen: 1.19 ug/l

RT: 1.36 min Scan# 84

Delta R.T. 0.04 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

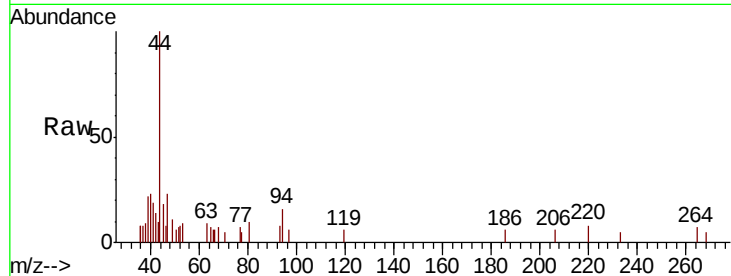
BYR-2-E(0-1)

Tot Ion: 94 Resp: 945

Ion Ratio Lower Upper

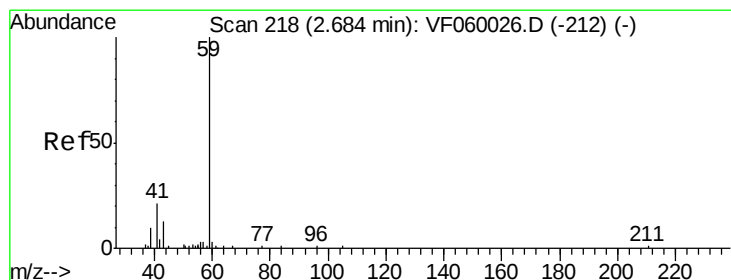
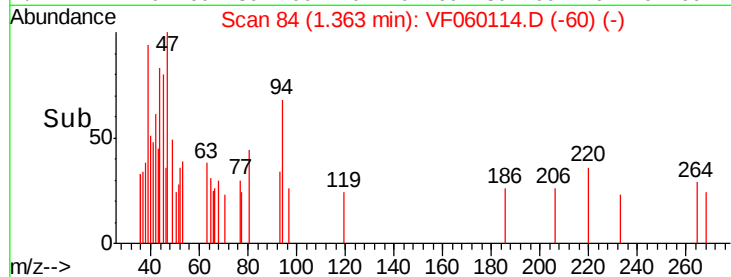
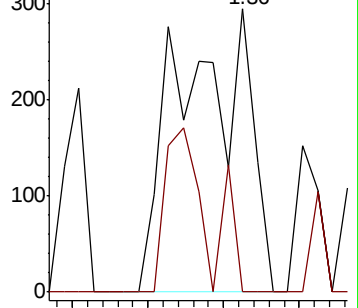
94 100

96 38.6 78.6 118.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#11

Tert butyl alcohol

Concen: 5.41 ug/l

RT: 2.64 min Scan# 214

Delta R.T. -0.04 min

Lab File: VF060114.D

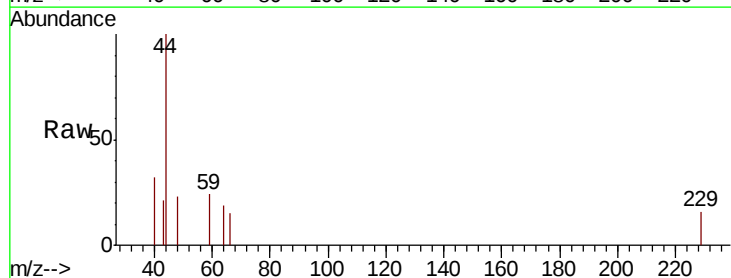
Acq: 24 Aug 2018 21:50

Tgt Ion: 59 Resp: 504

Ion Ratio Lower Upper

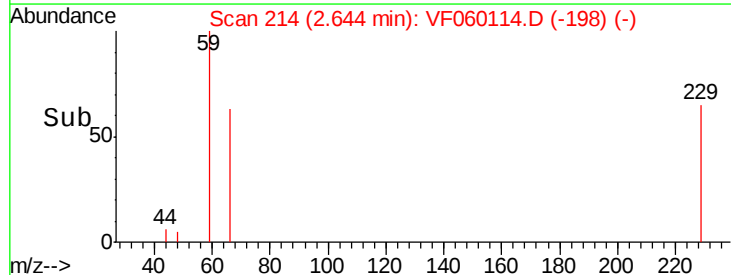
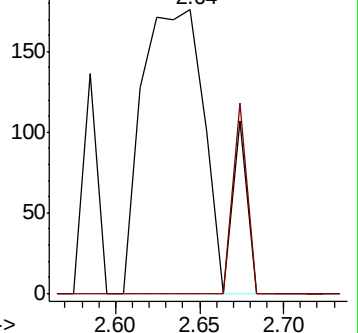
59 100

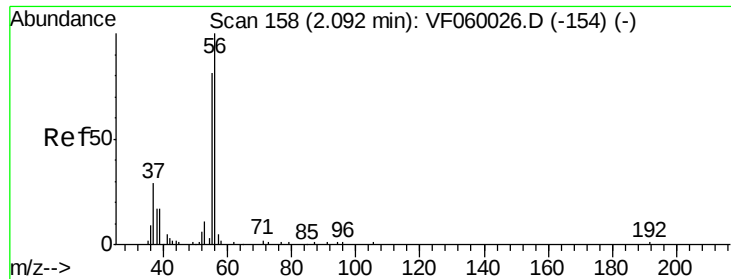
57 0.0 5.4 8.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 27.74 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

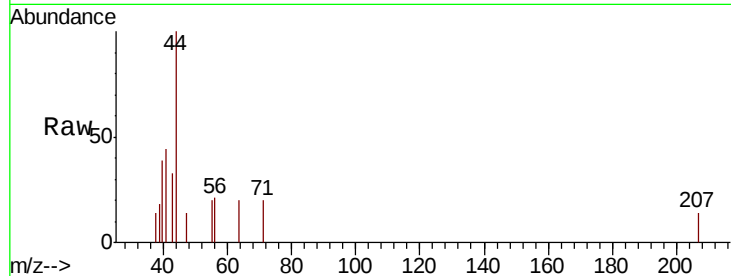
BYR-2-E(0-1)

Tot Ion: 56 Resp: 90

Ion Ratio Lower Upper

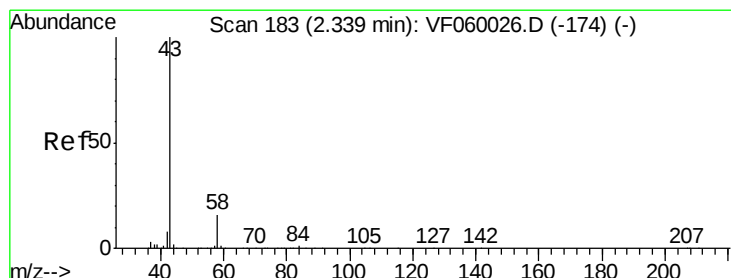
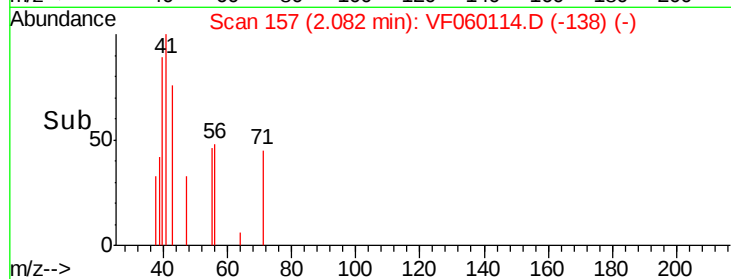
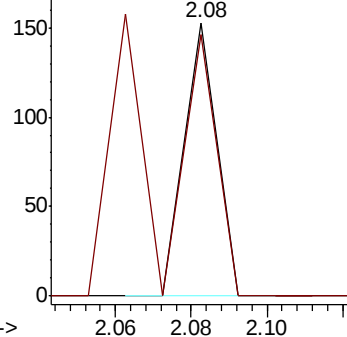
56 100

55 95.4 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 10.49 ug/l

RT: 2.32 min Scan# 181

Delta R.T. -0.02 min

Lab File: VF060114.D

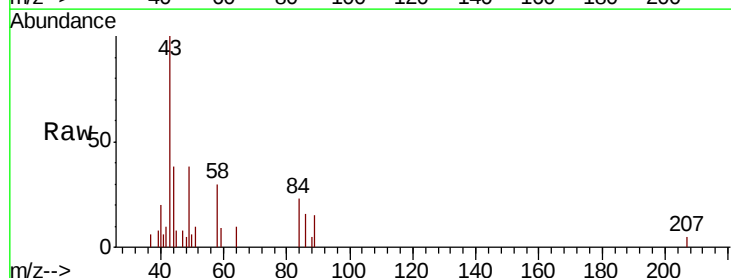
Acq: 24 Aug 2018 21:50

Tgt Ion: 43 Resp: 4834

Ion Ratio Lower Upper

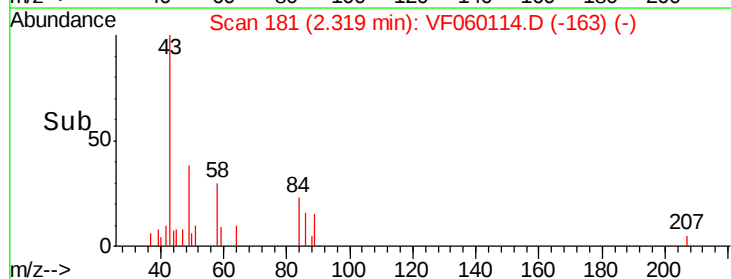
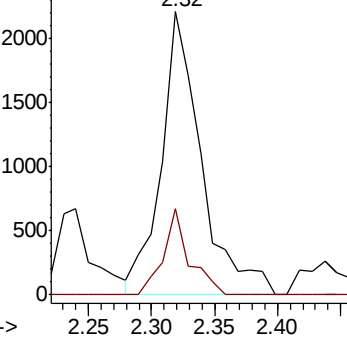
43 100

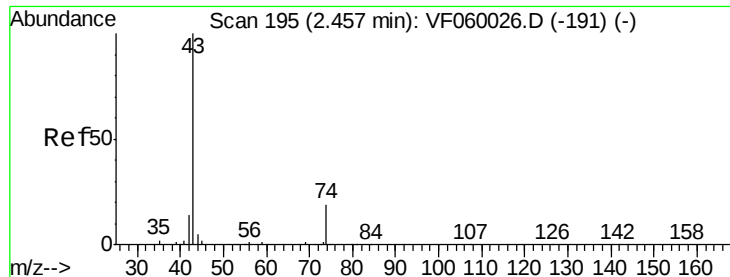
58 30.3 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

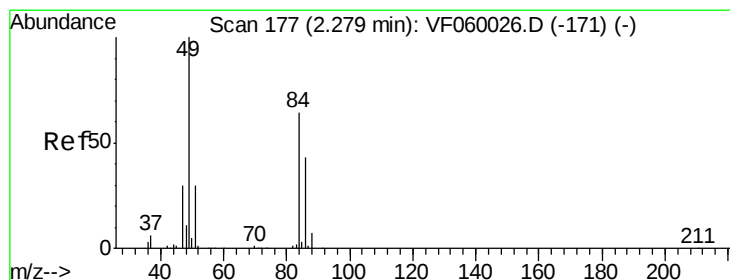
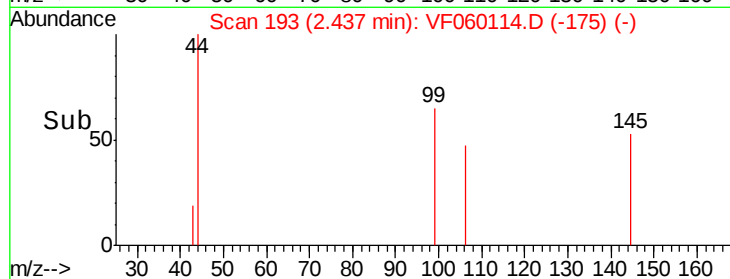
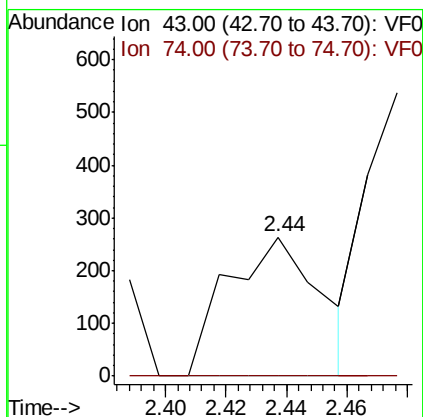
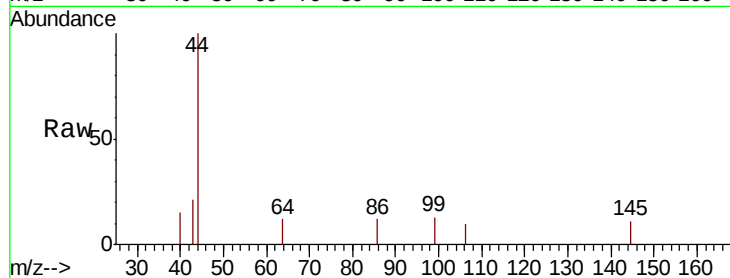




#18
Methyl Acetate
Concen: Below Cal
RT: 2.44 min Scan# 193
Delta R.T. -0.02 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

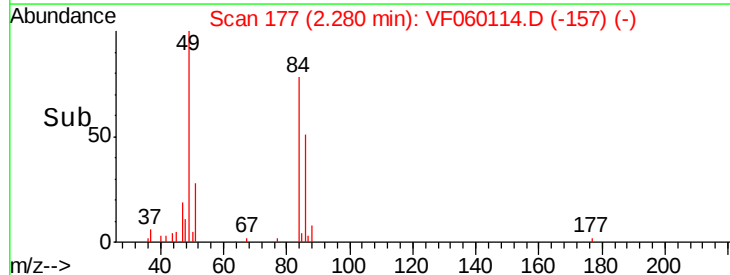
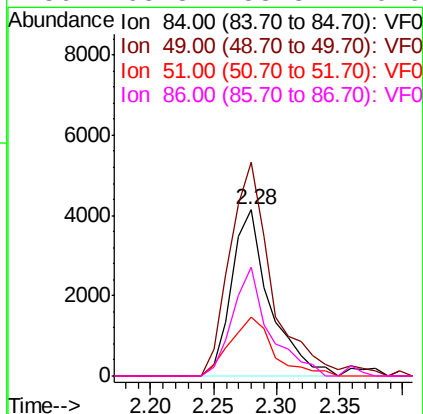
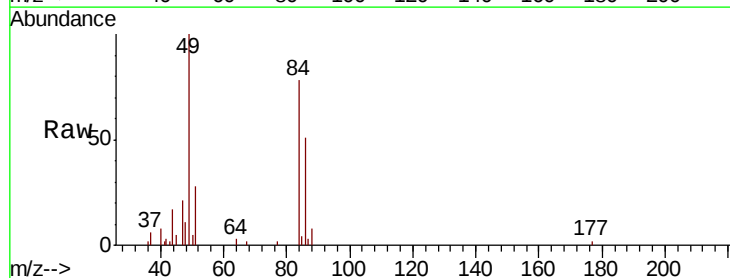
Instrument :
MSVOA_F
ClientSampleId :
BYR-2-E(0-1)

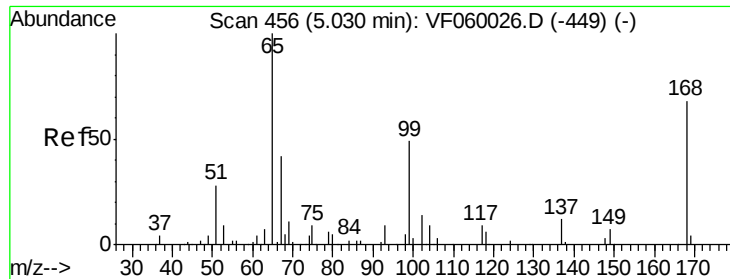
Tot Ion: 43 Resp: 562
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.6#



#20
Methylene Chloride
Concen: 4.99 ug/l
RT: 2.28 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

Tgt Ion: 84 Resp: 8716
Ion Ratio Lower Upper
84 100
49 128.4 125.4 188.0
51 35.7 38.3 57.5#
86 65.8 53.3 79.9





#33

1,2-Dichloroethane-d4

Concen: 37.73 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.03 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

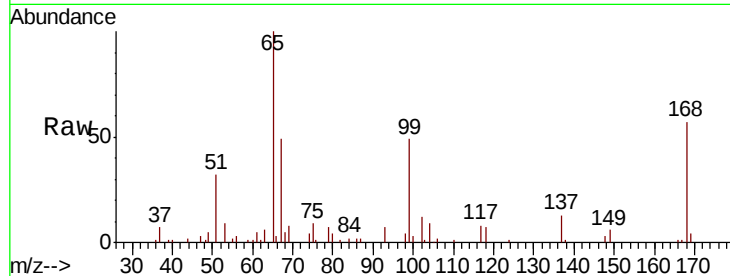
BYR-2-E(0-1)

Tot Ion: 65 Resp: 66133

Ion Ratio Lower Upper

65 100

67 49.2 0.0 92.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

25000

20000

15000

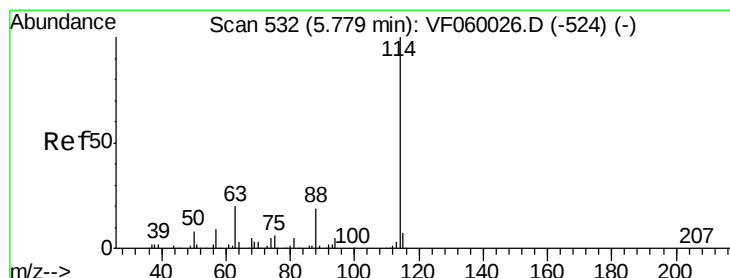
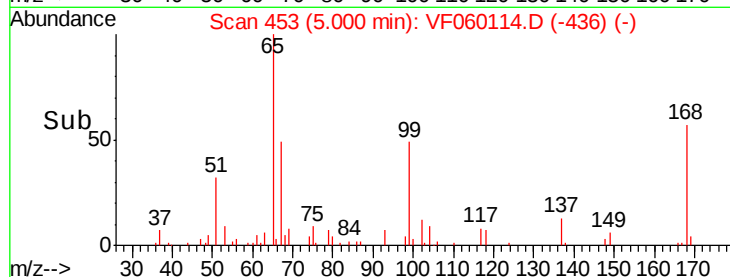
10000

5000

0

Time-->

4.90 5.00 5.10 5.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.03 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

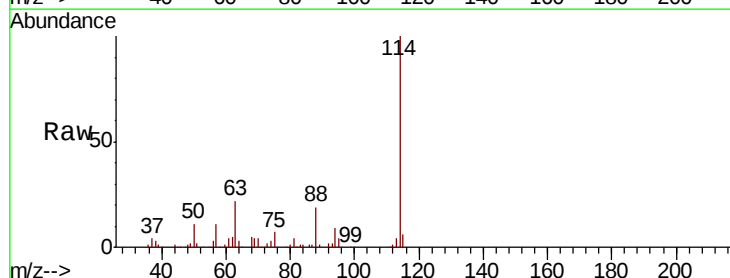
Tgt Ion: 114 Resp: 195851

Ion Ratio Lower Upper

114 100

63 22.2 0.0 40.4

88 19.4 0.0 38.6



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

100000

80000

60000

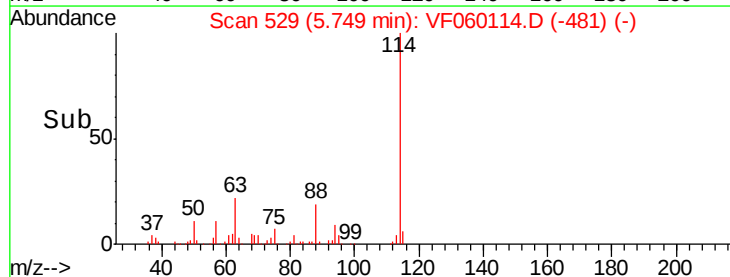
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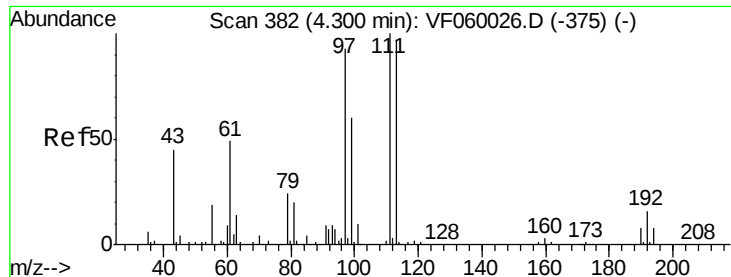
20000

0

Time-->

5.60 5.80 6.00

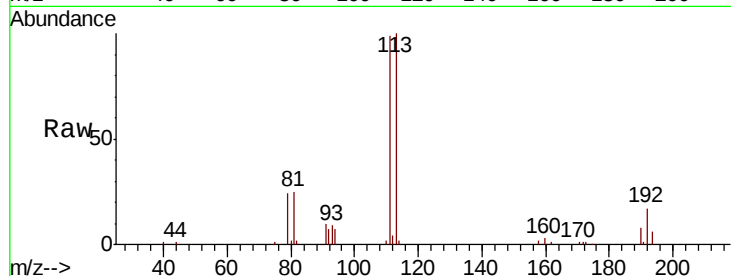




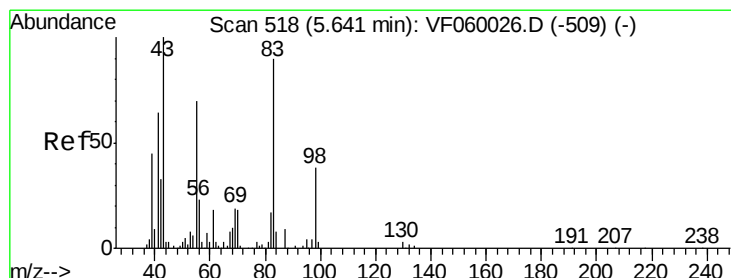
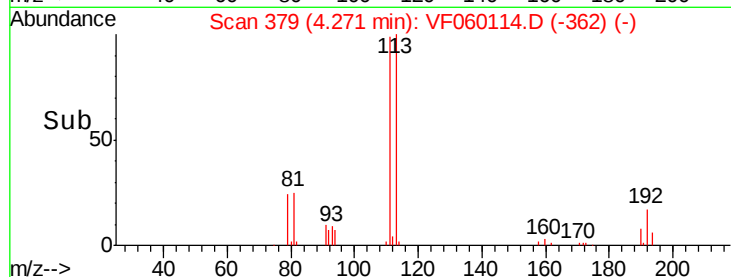
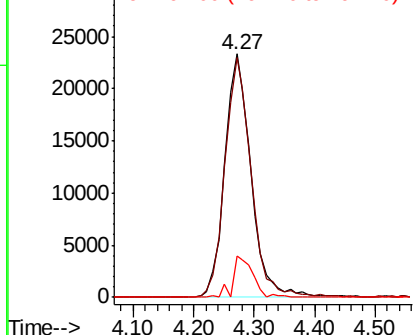
#35
Dibromofluoromethane
Concen: 45.71 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.03 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

Instrument :
MSVOA_F
ClientSampleId :
BYR-2-E(0-1)

Tot Ion:113 Resp: 70304
Ion Ratio Lower Upper
113 100
111 98.5 82.7 124.1
192 16.7 13.0 19.4

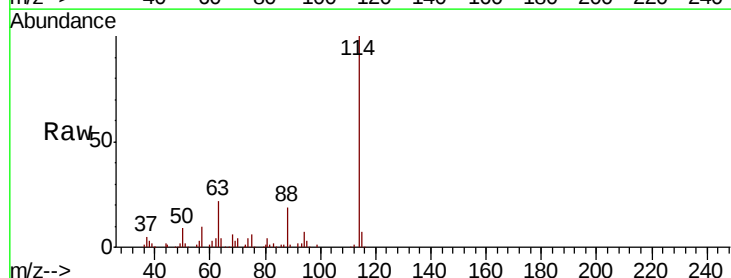


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

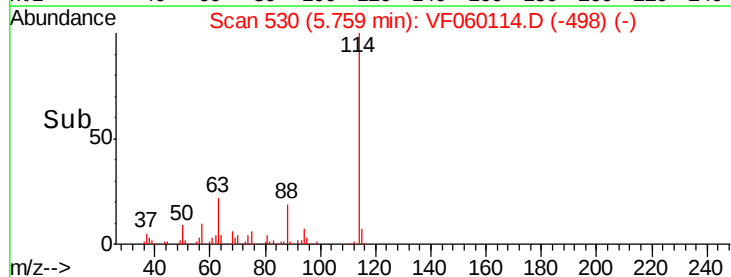
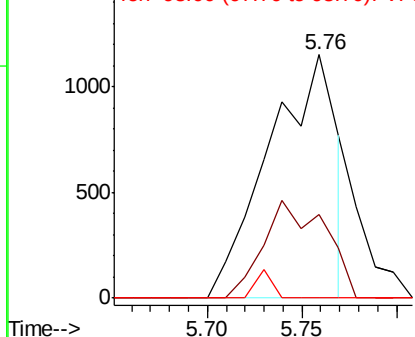


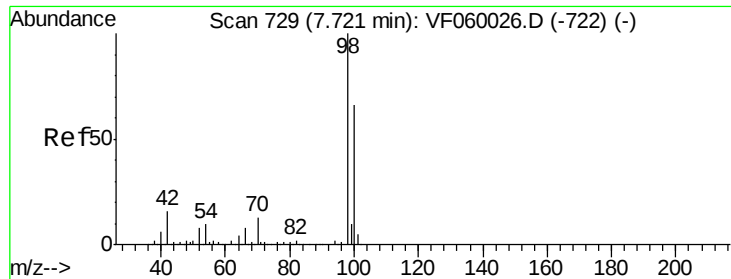
#39
Methylcyclohexane
Concen: 1.67 ug/l
RT: 5.76 min Scan# 530
Delta R.T. 0.12 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

Tgt Ion: 83 Resp: 2885
Ion Ratio Lower Upper
83 100
55 34.5 62.7 94.1#
98 0.0 33.8 50.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

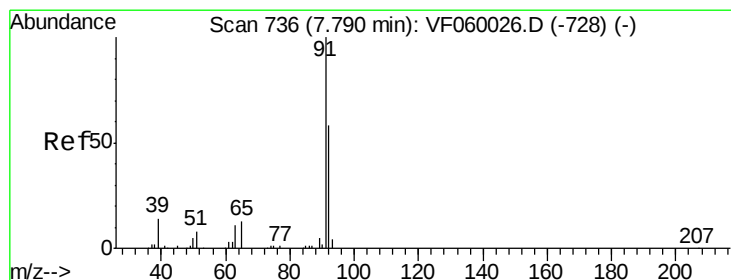
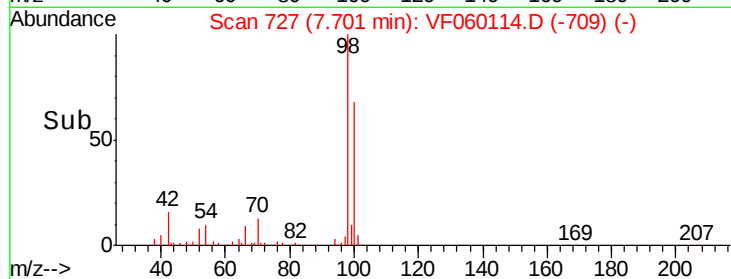
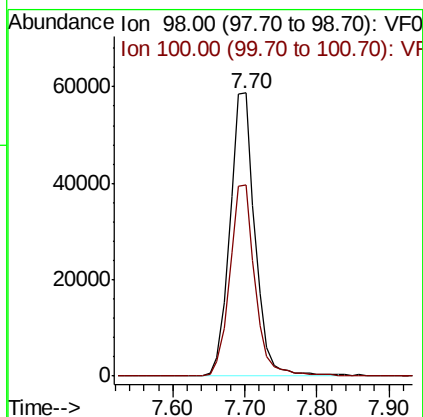
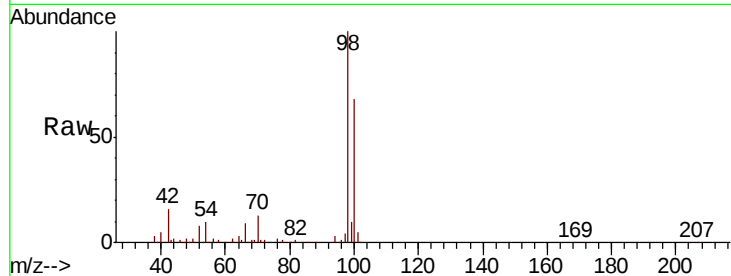




#50
Toluene-d8
Concen: 32.59 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

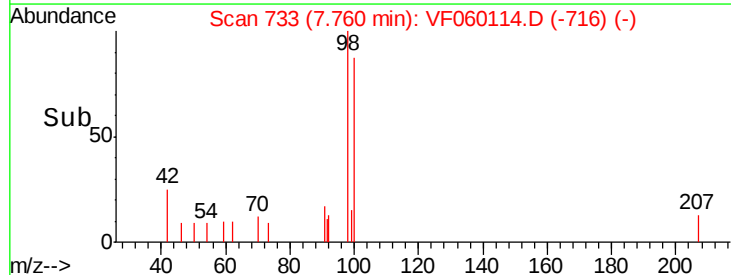
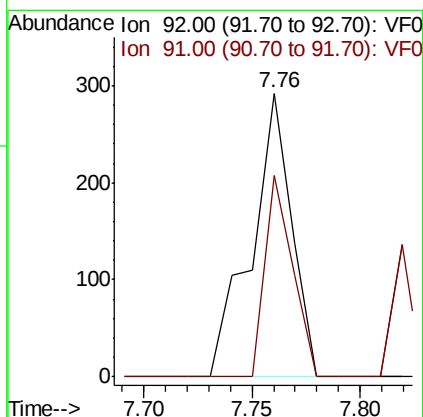
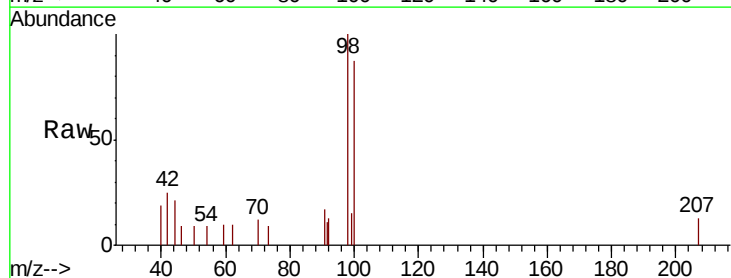
Instrument :
MSVOA_F
ClientSampleId :
BYR-2-E(0-1)

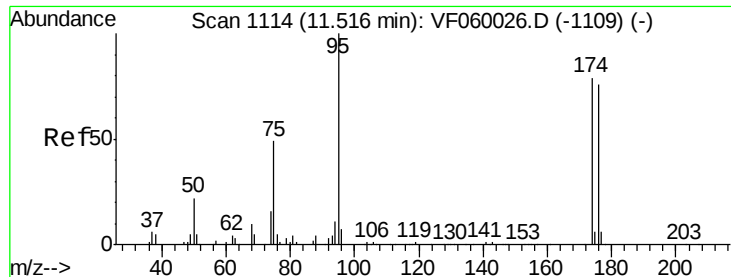
Tot Ion: 98 Resp: 142351
Ion Ratio Lower Upper
98 100
100 67.7 53.2 79.8



#52
Toluene
Concen: Below Cal
RT: 7.76 min Scan# 733
Delta R.T. -0.03 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

Tgt Ion: 92 Resp: 381
Ion Ratio Lower Upper
92 100
91 70.9 137.7 206.5#





#62

4-Bromofluorobenzene

Concen: 18.18 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

BYR-2-E(0-1)

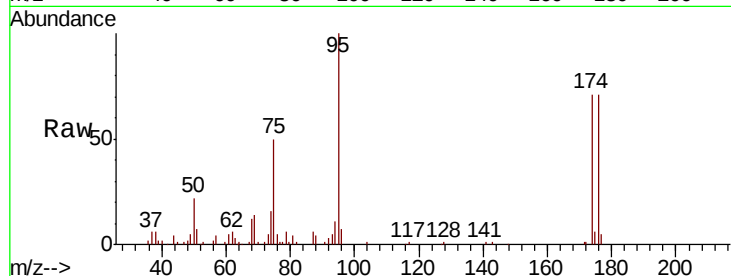
Tot Ion: 95 Resp: 42009

Ion Ratio Lower Upper

95 100

174 71.4 0.0 158.4

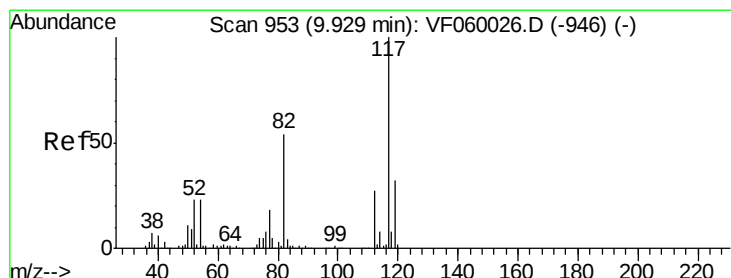
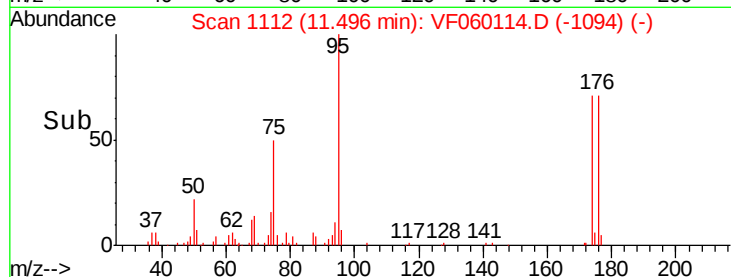
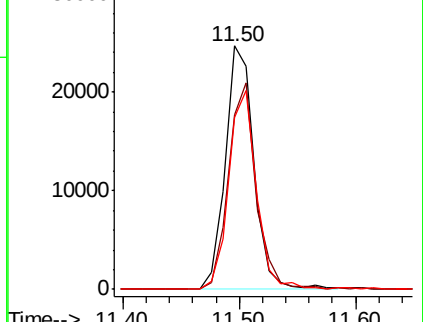
176 70.6 0.0 153.0



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: 50.00 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.03 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

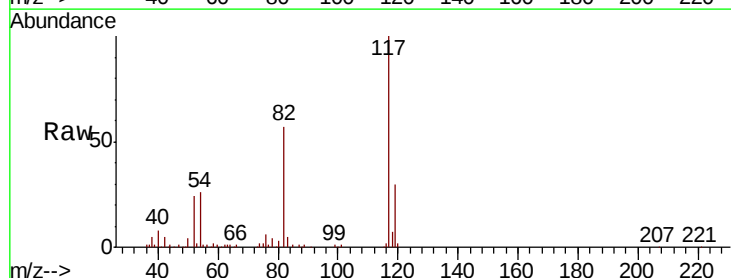
Tgt Ion: 117 Resp: 153120

Ion Ratio Lower Upper

117 100

82 57.1 43.6 65.4

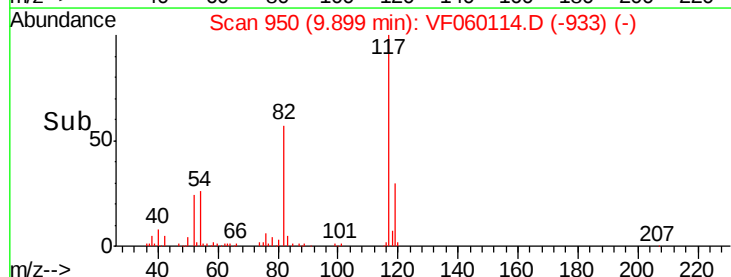
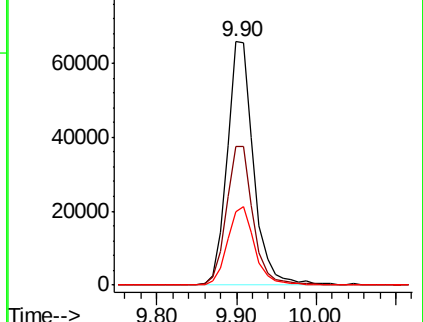
119 30.0 25.6 38.4

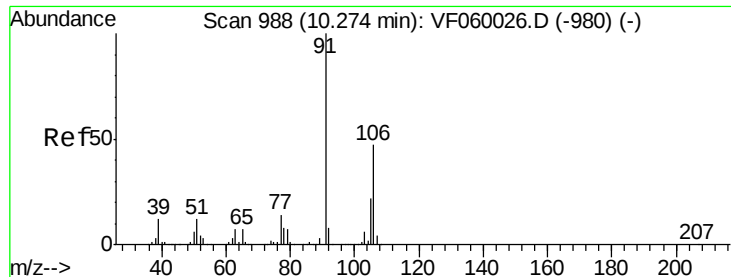


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

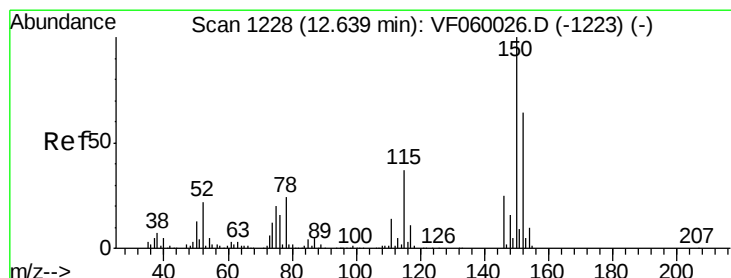
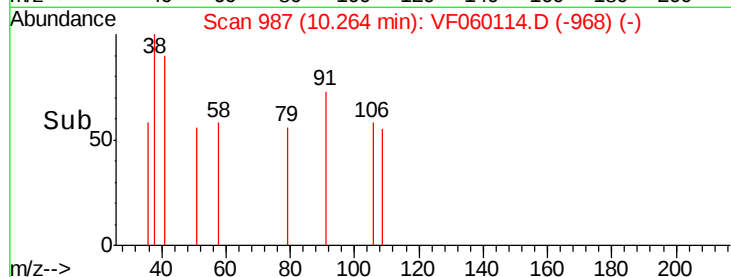
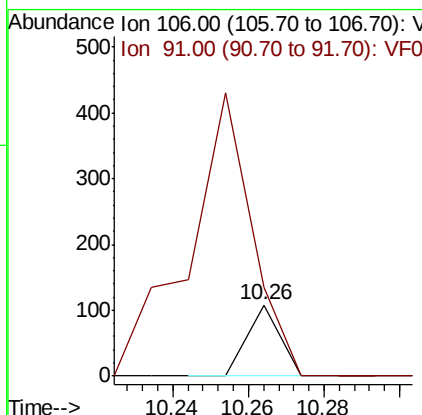
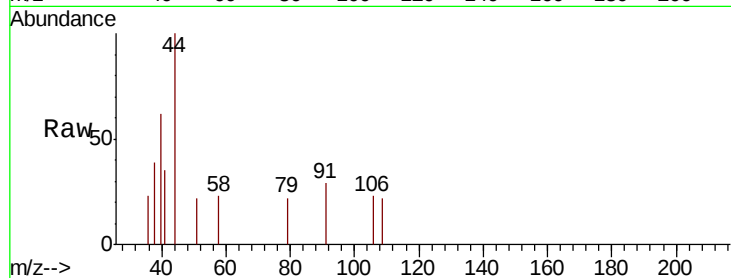




#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

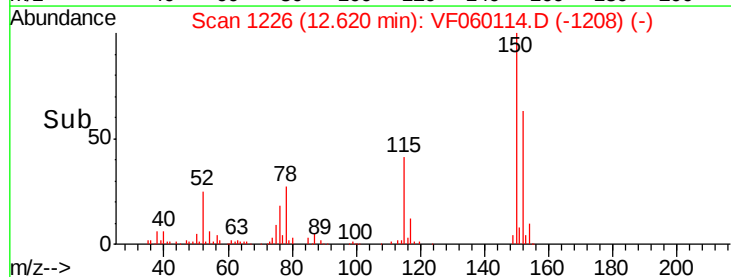
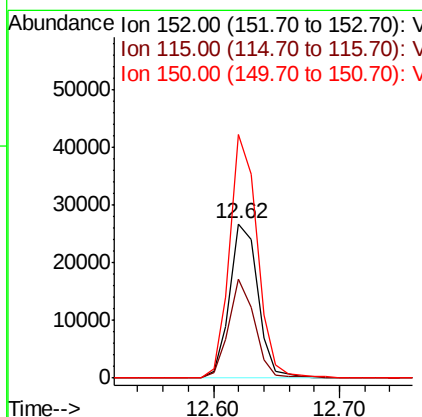
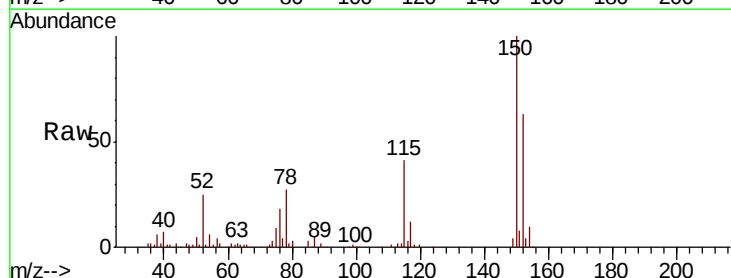
Instrument :
MSVOA_F
ClientSampleId :
BYR-2-E(0-1)

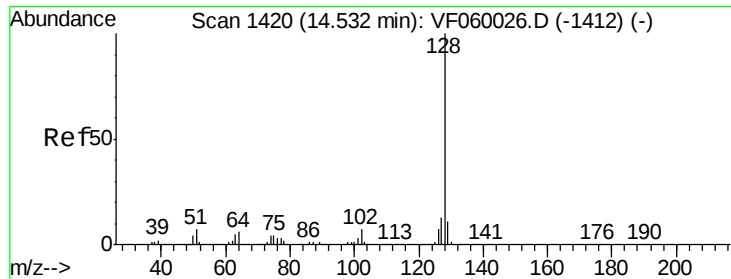
Tot Ion:106 Resp: 64
Ion Ratio Lower Upper
106 100
91 125.0 171.8 257.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.02 min
Lab File: VF060114.D
Acq: 24 Aug 2018 21:50

Tgt Ion:152 Resp: 41599
Ion Ratio Lower Upper
152 100
115 64.2 28.6 85.9
150 157.6 0.0 312.0





#95

Naphthalene

Concen: 2.47 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF060114.D

Acq: 24 Aug 2018 21:50

Instrument :

MSVOA_F

ClientSampleId :

BYR-2-E(0-1)

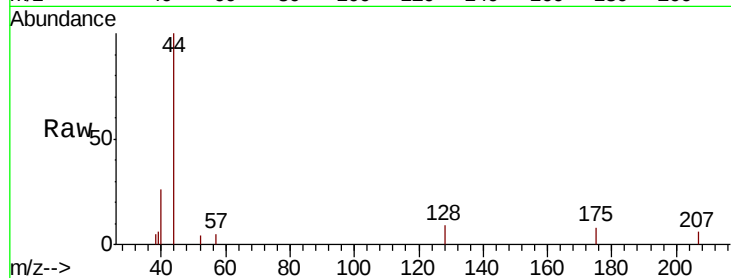
Tot Ion:128 Resp: 298

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.5 12.7#

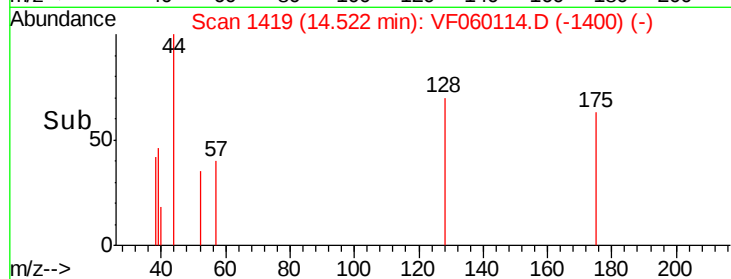


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

14.52



Time-->