

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
 Data File : BF083077.D
 Acq On : 20 Nov 2015 12:57
 Operator : UM/IZ
 Sample : G4452-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

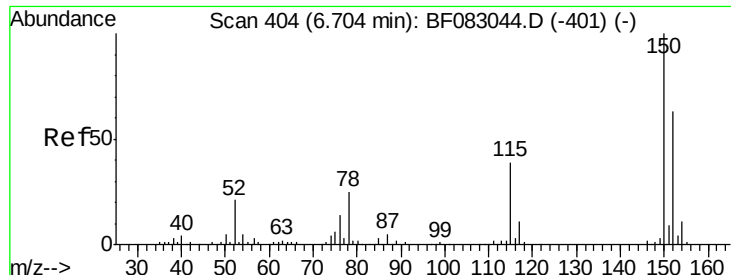
Instrument :
 BNA_F
 ClientSampleId :
 RW-20151116-01

Quant Time: Nov 20 22:42:17 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 01:33:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	154810	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	581047	20.00	ng	0.00
38) Acenaphthene-d10	9.74	164	255370	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	437131	20.00	ng	0.01
75) Chrysene-d12	13.87	240	356642	20.00	ng	0.01
86) Perylene-d12	15.27	264	351788	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	547930	54.97	ng	0.01
7) Phenol-d6	6.35	99	874625	66.63	ng	0.00
23) Nitrobenzene-d5	7.26	82	570577	44.96	ng	-0.01
41) 2,4,6-Tribromophenol	10.53	330	196043	72.30	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	867285	45.74	ng	-0.01
78) Terphenyl-d14	12.82	244	1059495	70.13	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.01	128	102806	3.40	ng	97
37) 2-Methylnaphthalene	8.70	142	75143	3.73	ng	99
49) Dimethylphthalate	9.47	163	238869	11.37	ng	# 97
51) Acenaphthene	9.78	154	148819	8.37	ng	100
54) Dibenzofuran	9.95	168	167656	7.04	ng	97
57) Fluorene	10.29	166	188181	9.81	ng	99
70) Phenanthrene	11.25	178	1791493	67.93	ng	96
71) Anthracene	11.30	178	520837m	19.60	ng	
72) Carbazole	11.46	167	202030	8.70	ng	97
74) Fluoranthene	12.44	202	1750764	63.70	ng	98
77) Pyrene	12.67	202	1760564	70.12	ng	98
80) Benzo(a)anthracene	13.86	228	925525	40.84	ng	98
82) Chrysene	13.89	228	779206	37.49	ng	97
83) Bis(2-ethylhexyl)phthalate	13.87	149	68783	4.74	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.56	276	250321	14.80	ng	95
87) Benzo(b)fluoranthene	14.88	252	724513m	29.45	ng	
88) Benzo(k)fluoranthene	14.89	252	273552m	14.60	ng	
89) Benzo(a)pyrene	15.21	252	536019	27.15	ng	96
90) Dibenzo(a,h)anthracene	16.57	278	66799	3.89	ng	# 86
91) Benzo(a,h,i)perylene	16.96	276	217712	12.99	ng	98

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

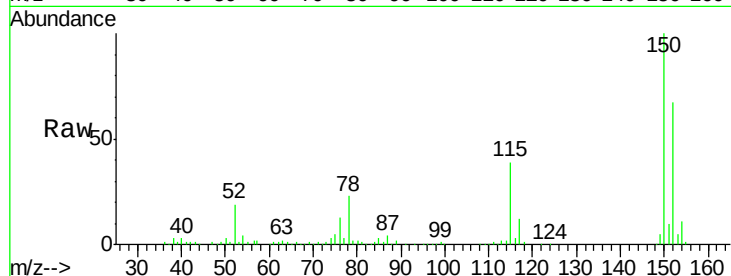
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ALS Vial  : 4 Sample Multiplier: 1
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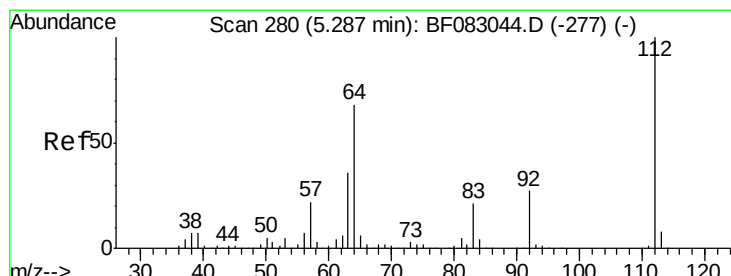
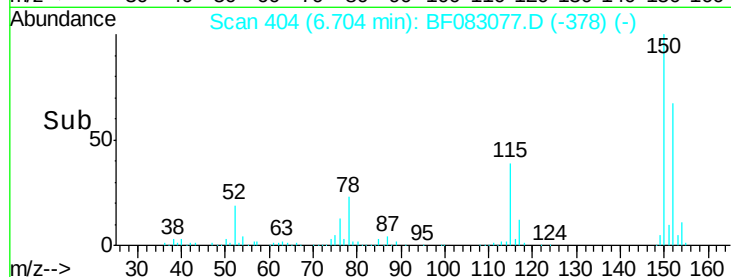
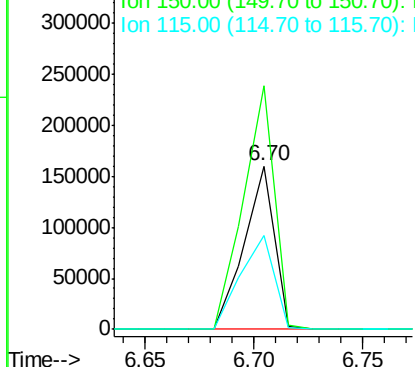
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.70 min Scan# 404
 Delta R.T. 0.00 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

Instrument :
 BNA_F
 ClientSampleId :
 RW-20151116-01

Tot Ion:152 Resp: 154810
 Ion Ratio Lower Upper
 152 100
 150 148.8 126.4 189.6
 115 57.3 49.0 73.6

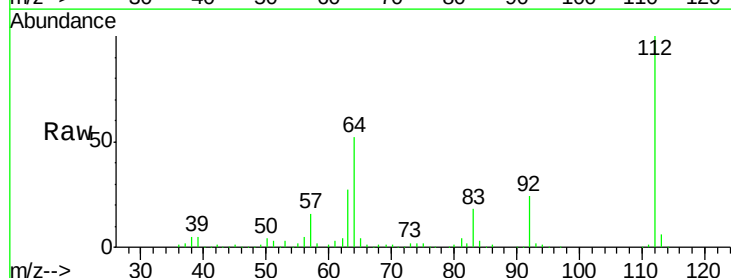


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

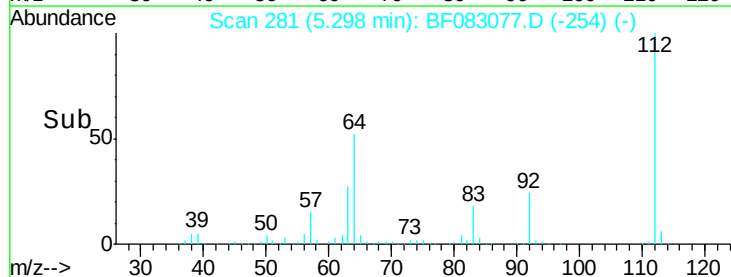
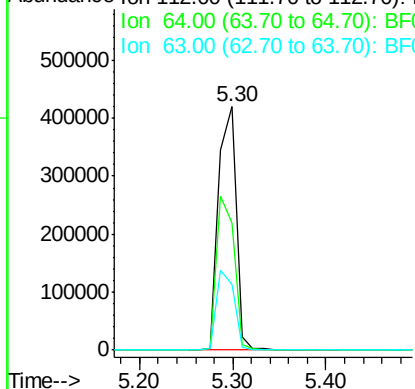


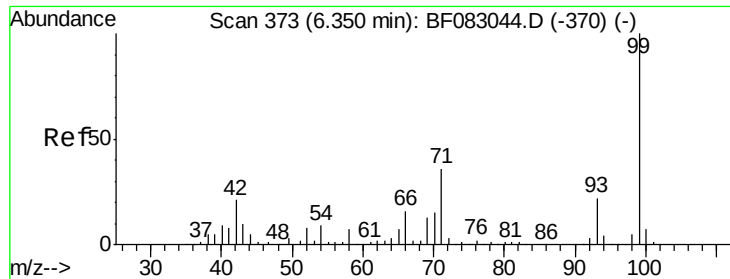
#5
 2-Fluorophenol
 Concen: 54.97 ng
 RT: 5.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

Tgt Ion:112 Resp: 547930
 Ion Ratio Lower Upper
 112 100
 64 52.2 54.8 82.2#
 63 26.9 29.0 43.4#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 66.63 ng

RT: 6.35 min Scan# 373

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

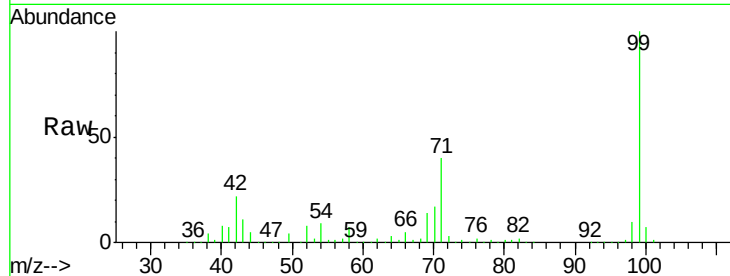
Tot Ion: 99 Resp: 874625

Ion Ratio Lower Upper

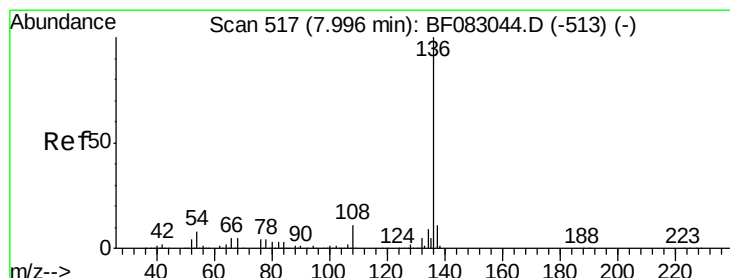
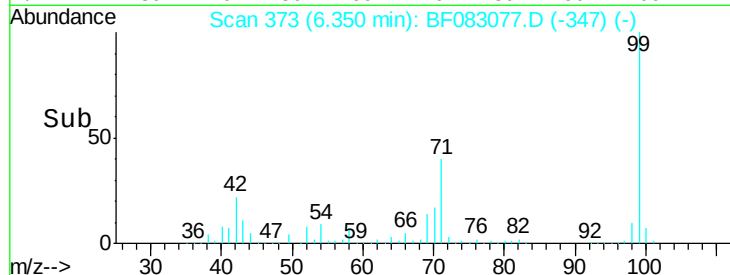
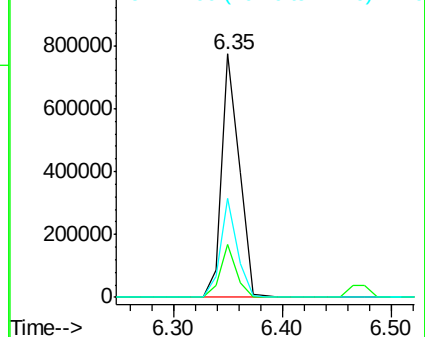
99 100

42 21.8 16.6 25.0

71 40.4 29.2 43.8



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 517

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Tgt Ion: 136 Resp: 581047

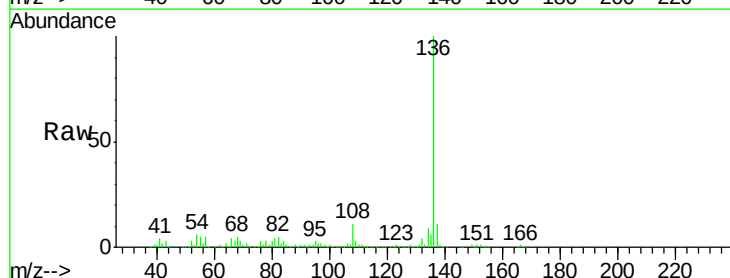
Ion Ratio Lower Upper

136 100

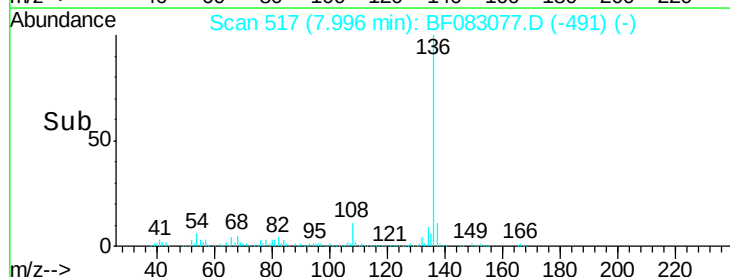
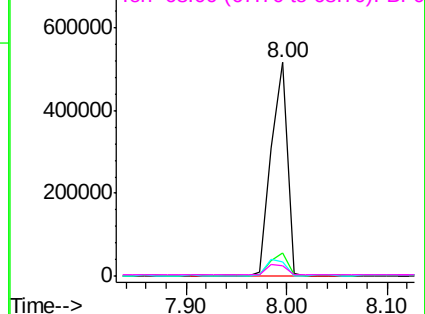
137 10.8 8.6 12.8

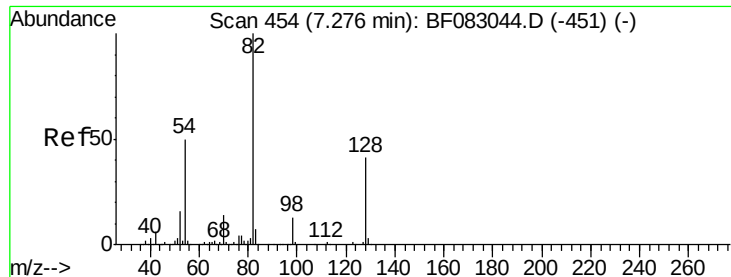
54 6.5 6.2 9.2

68 4.8 4.2 6.2



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

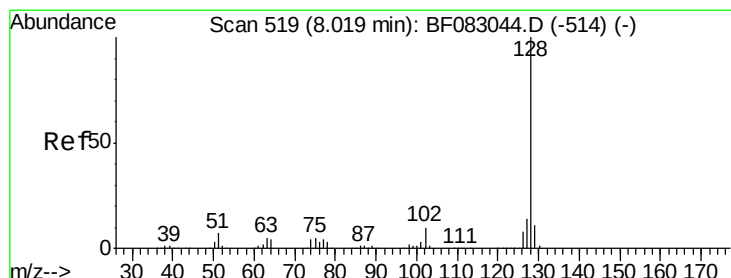
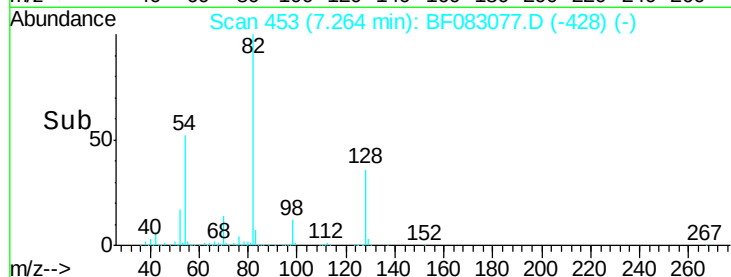
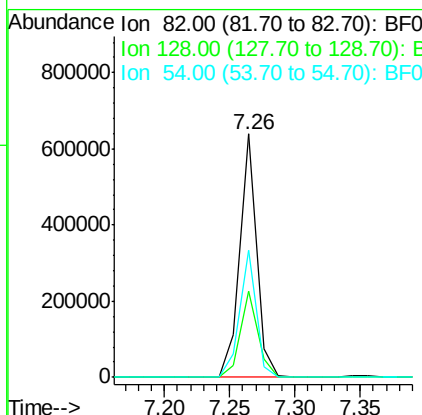
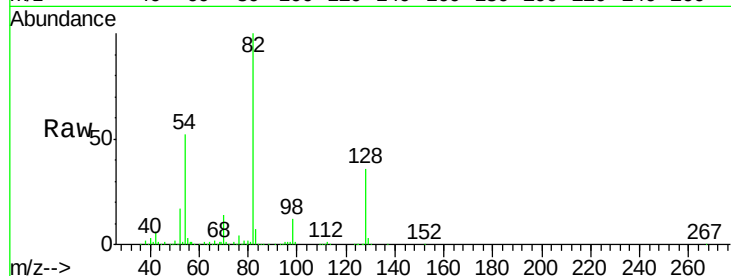




#23
Nitrobenzene-d5
Concen: 44.96 ng
RT: 7.26 min Scan# 453
Delta R.T. -0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

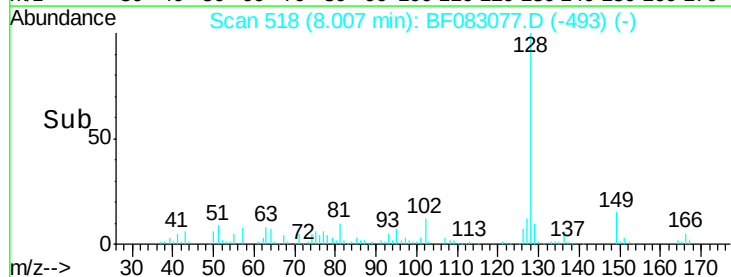
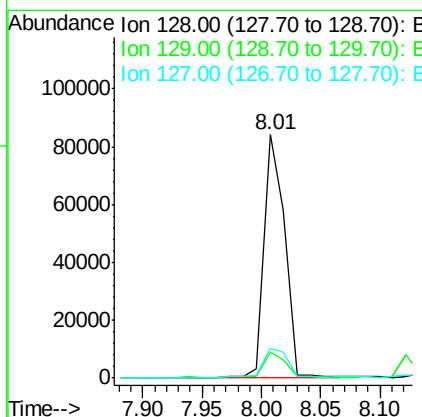
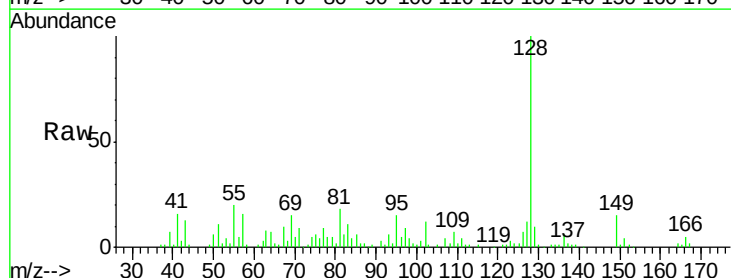
Instrument :
BNA_F
ClientSampleId :
RW-20151116-01

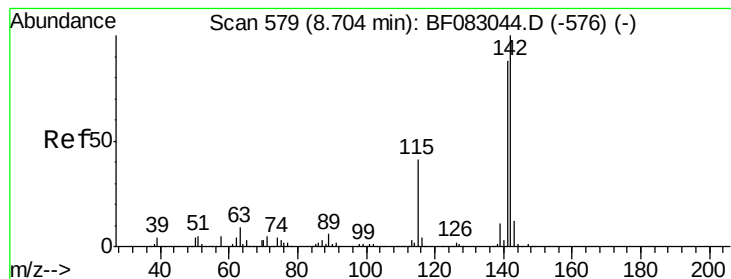
Tot Ion	82	Resp	570577
Ion Ratio	Lower	Upper	
82	100		
128	35.7	33.1	49.7
54	52.2	39.8	59.6



#31
Naphthalene
Concen: 3.40 ng
RT: 8.01 min Scan# 518
Delta R.T. -0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Tgt Ion	128	Resp	102806
Ion Ratio	Lower	Upper	
128	100		
129	10.4	9.0	13.4
127	12.3	10.9	16.3

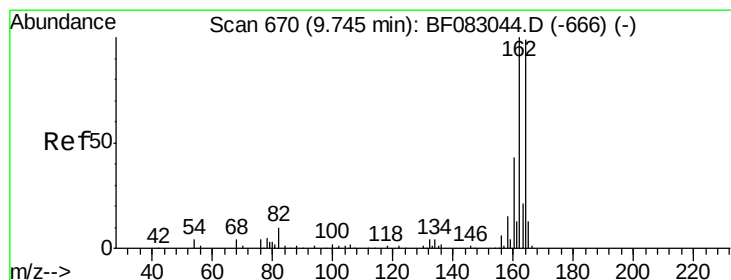
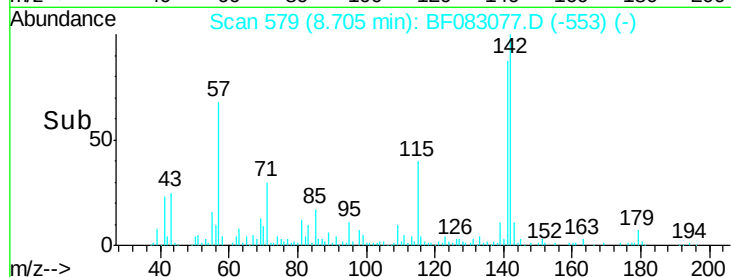
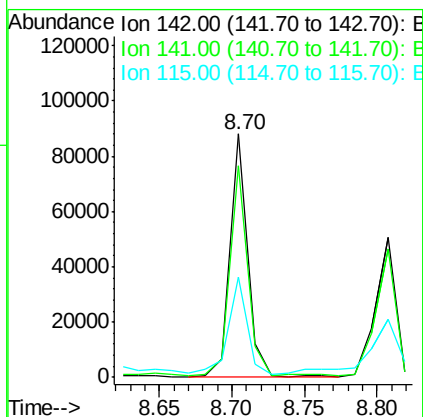
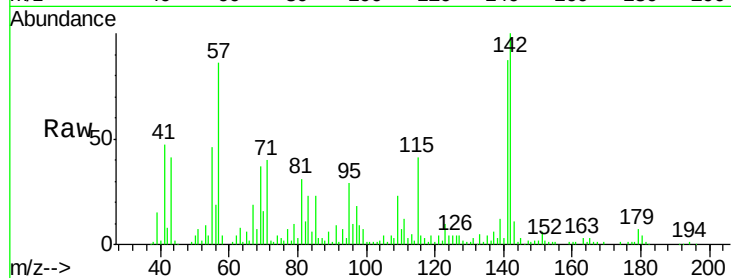




#37
 2-Methylnaphthalene
 Concen: 3.73 ng
 RT: 8.70 min Scan# 579
 Delta R.T. 0.00 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

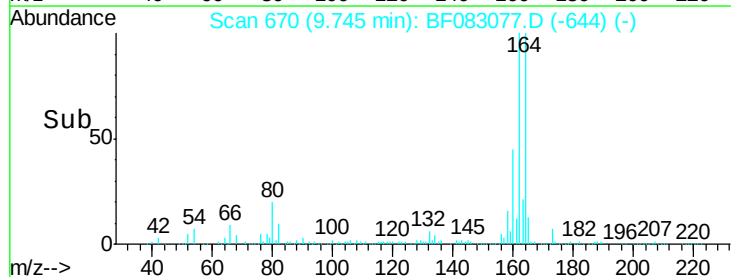
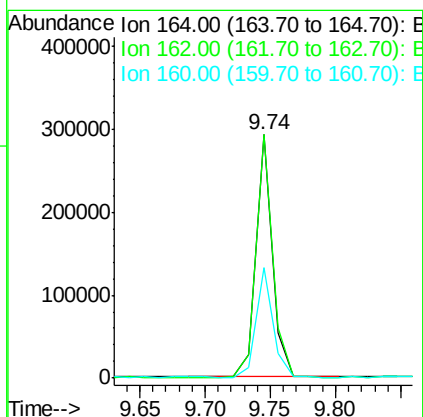
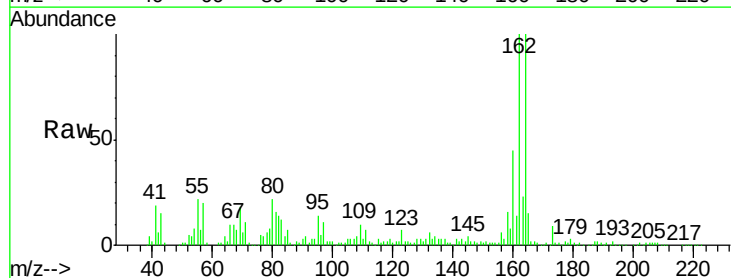
Instrument :
 BNA_F
 ClientSampleId :
 RW-20151116-01

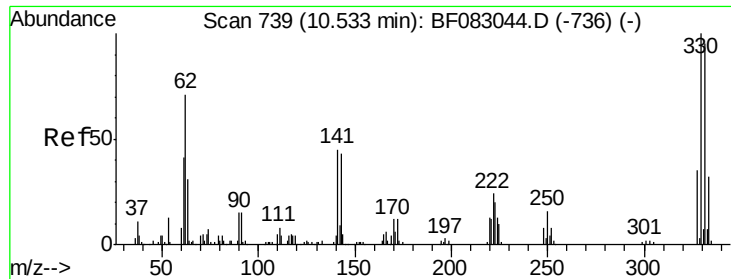
Tot Ion:142 Resp: 75143
 Ion Ratio Lower Upper
 142 100
 141 86.7 70.7 106.1
 115 41.0 33.1 49.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.74 min Scan# 670
 Delta R.T. 0.00 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

Tgt Ion:164 Resp: 255370
 Ion Ratio Lower Upper
 164 100
 162 100.1 80.5 120.7
 160 45.4 35.0 52.4

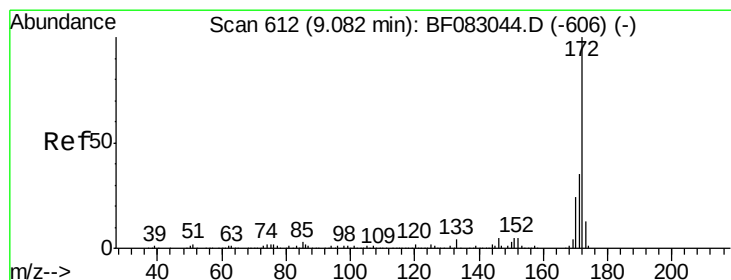
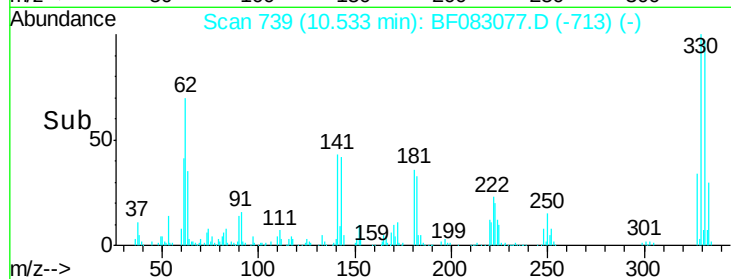
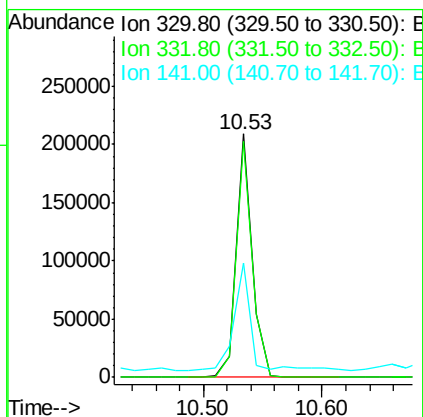
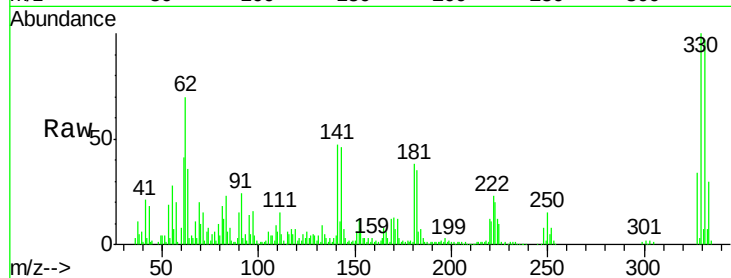




#41
 2,4,6-Tribromophenol
 Concen: 72.30 ng
 RT: 10.53 min Scan# 739
 Delta R.T. 0.00 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

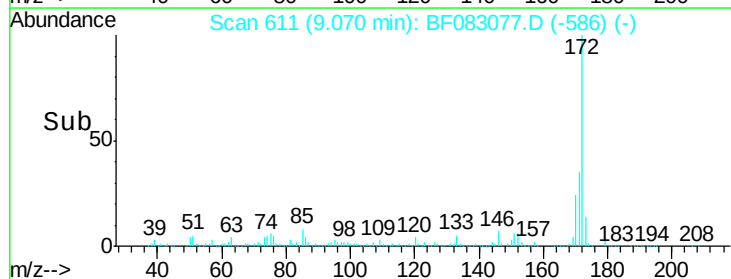
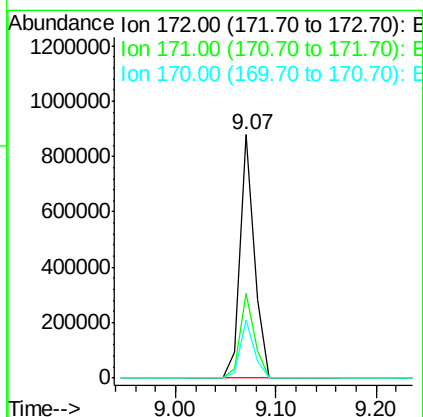
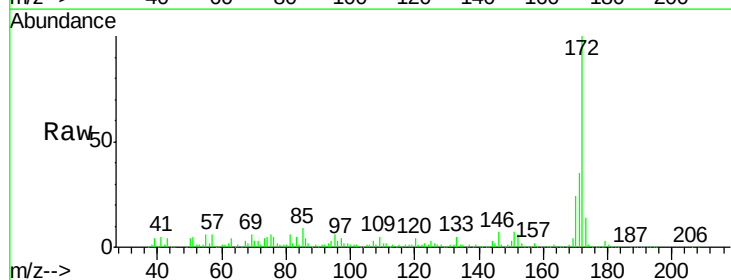
Instrument :
 BNA_F
 ClientSampleId :
 RW-20151116-01

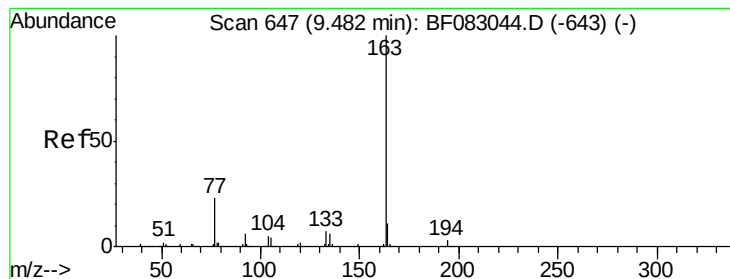
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.6	116.4
141	42.4	34.6	52.0



#44
 2-Fluorobiphenyl
 Concen: 45.74 ng
 RT: 9.07 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.2	42.4
170	23.9	19.4	29.0





#49

Dimethylphthalate

Concen: 11.37 ng

RT: 9.47 min Scan# 646

Delta R.T. -0.01 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

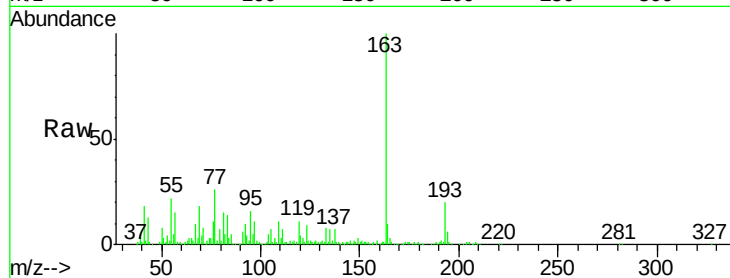
Tot Ion:163 Resp: 238869

Ion Ratio Lower Upper

163 100

194 6.5 2.7 4.1#

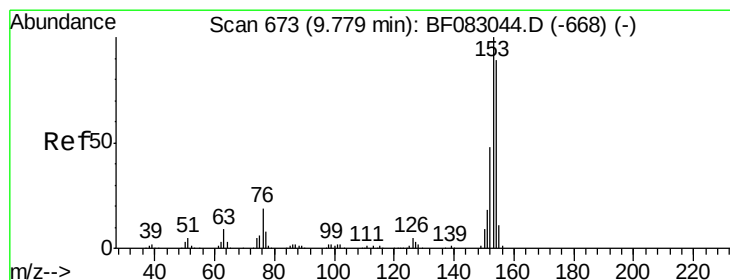
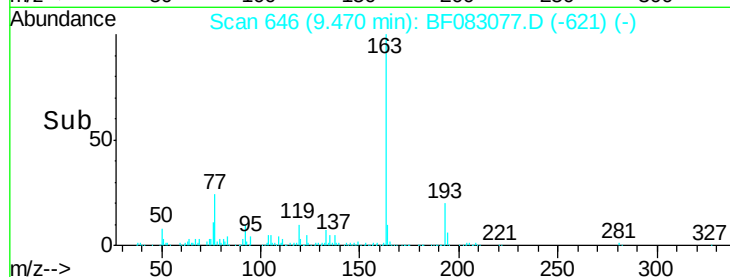
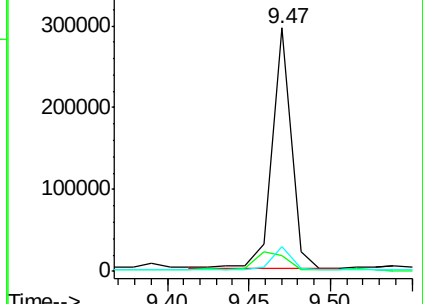
164 10.4 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 8.37 ng

RT: 9.78 min Scan# 673

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

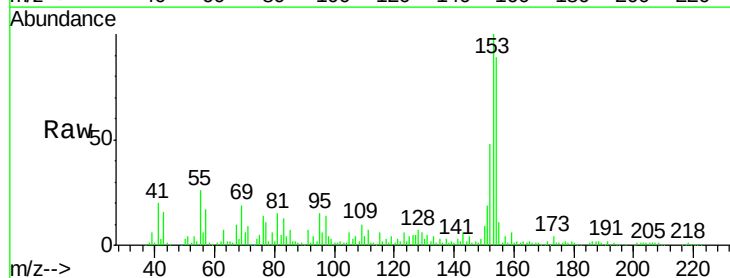
Tgt Ion:154 Resp: 148819

Ion Ratio Lower Upper

154 100

153 112.8 90.1 135.1

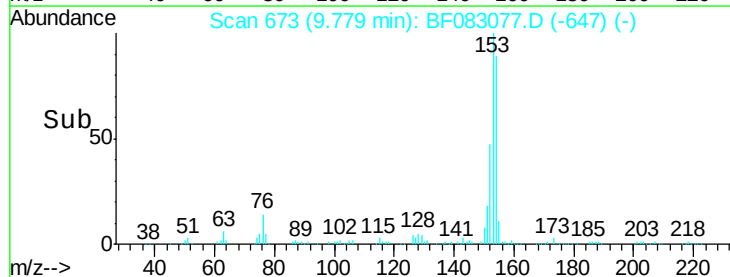
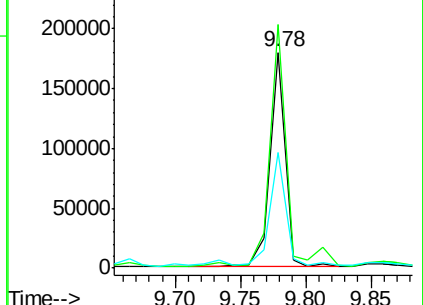
152 53.9 43.3 64.9

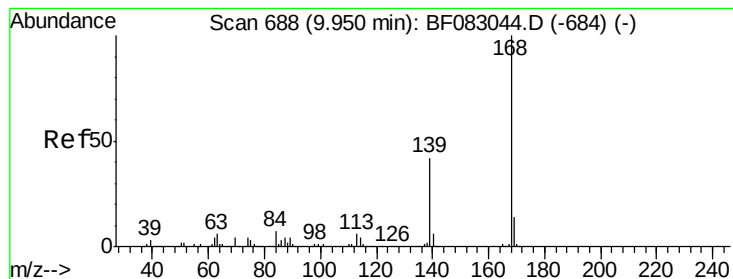


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 7.04 ng

RT: 9.95 min Scan# 688

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

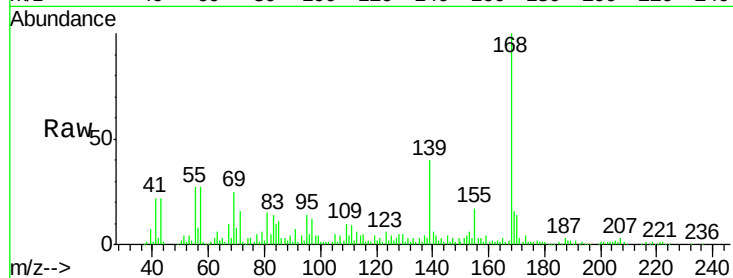
Tot Ion:168 Resp: 167656

Ion Ratio Lower Upper

168 100

139 40.4 33.5 50.3

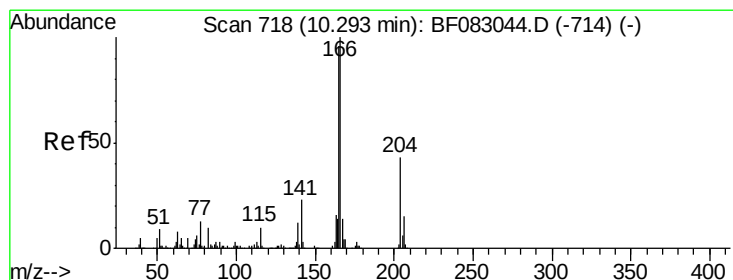
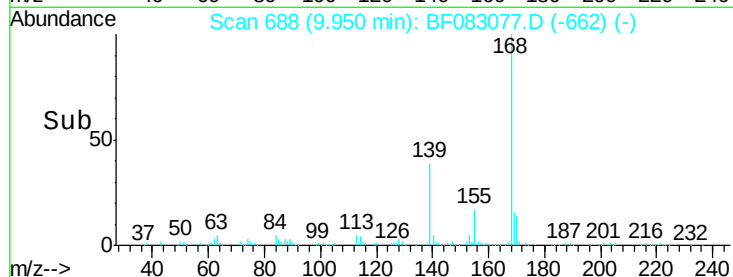
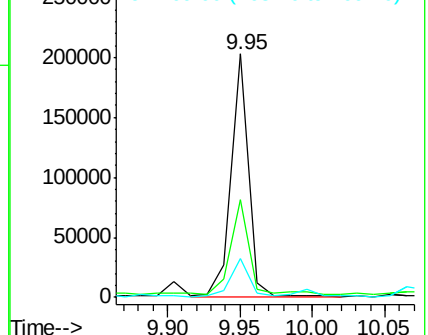
169 16.0 11.2 16.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 9.81 ng

RT: 10.29 min Scan# 718

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

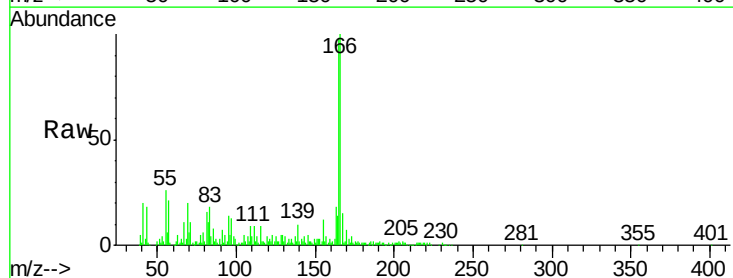
Tgt Ion:166 Resp: 188181

Ion Ratio Lower Upper

166 100

165 97.6 77.1 115.7

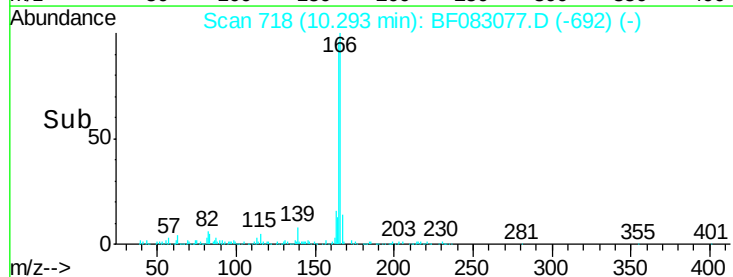
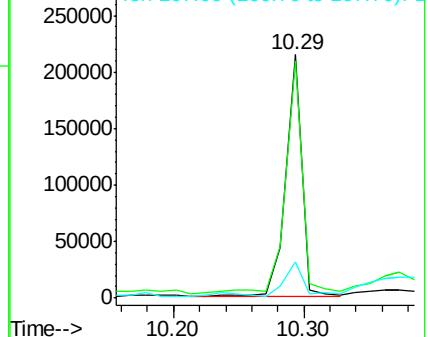
167 14.8 11.0 16.4

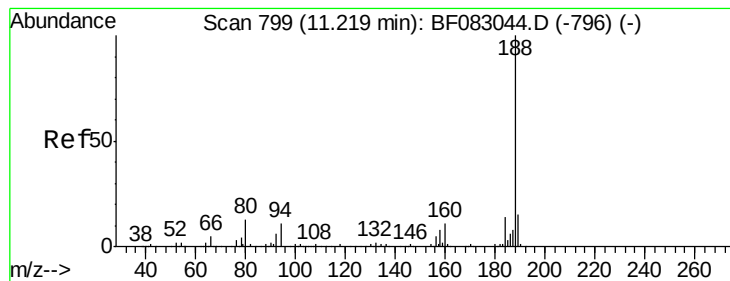


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.23 min Scan# 800

Delta R.T. 0.01 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

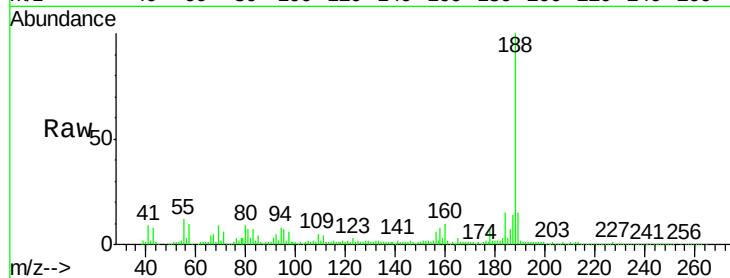
Tot Ion:188 Resp: 437131

Ion Ratio Lower Upper

188 100

94 7.9 9.0 13.4#

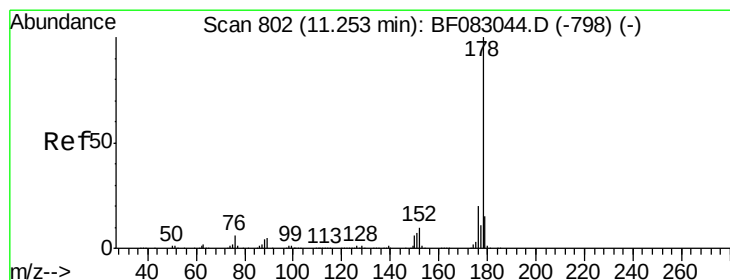
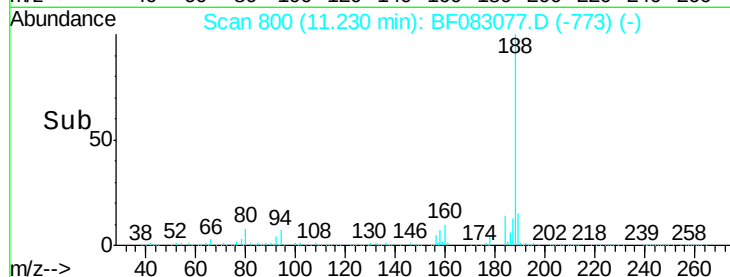
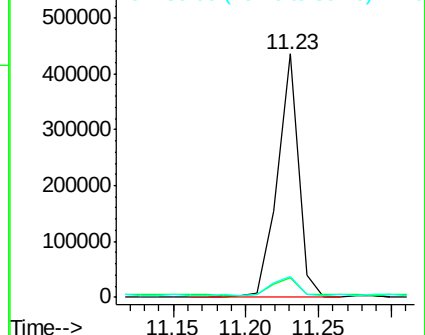
80 8.8 10.2 15.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 67.93 ng

RT: 11.25 min Scan# 802

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

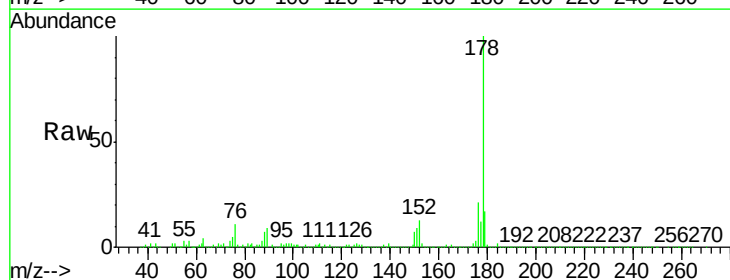
Tgt Ion:178 Resp: 1791493

Ion Ratio Lower Upper

178 100

176 21.1 15.6 23.4

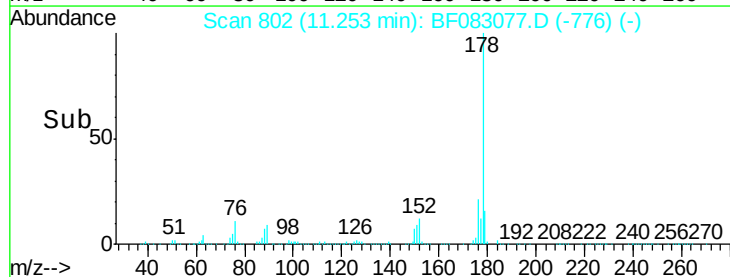
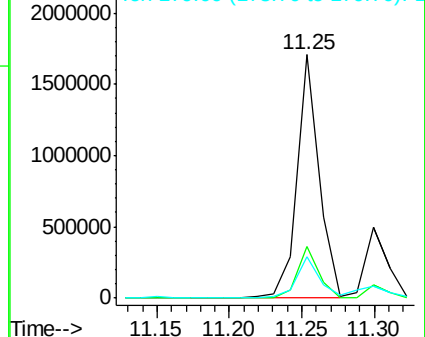
179 17.1 12.3 18.5

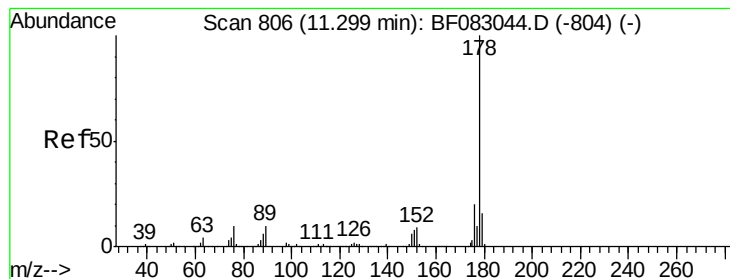


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 19.60 ng

RT: 11.30 min Scan# 806

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

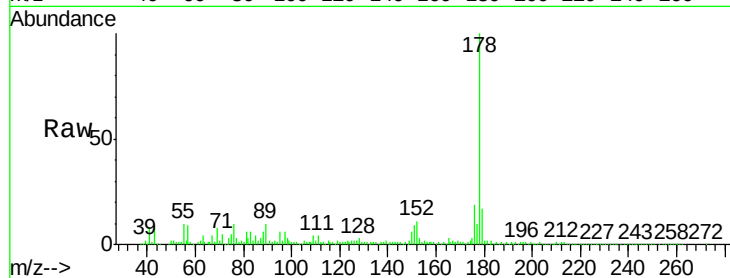
Tot Ion:178 Resp: 520837

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

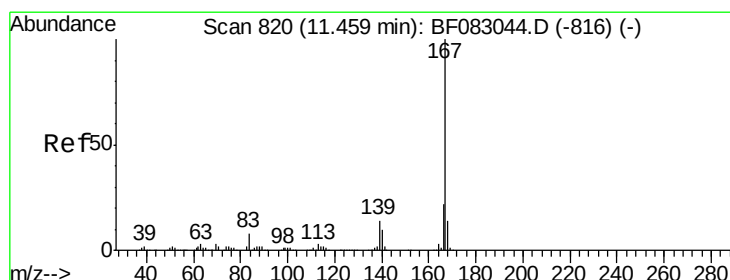
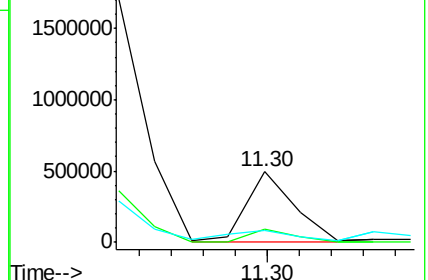
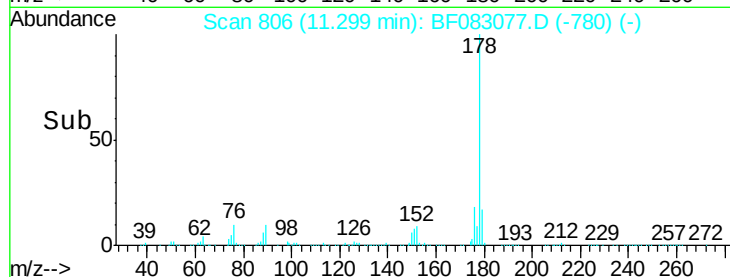
179 17.4 13.1 19.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 8.70 ng

RT: 11.46 min Scan# 820

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

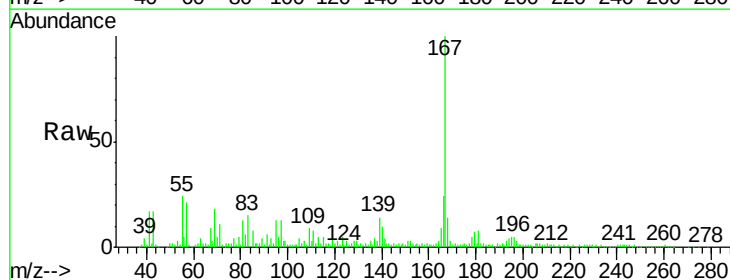
Tgt Ion:167 Resp: 202030

Ion Ratio Lower Upper

167 100

166 24.0 17.8 26.6

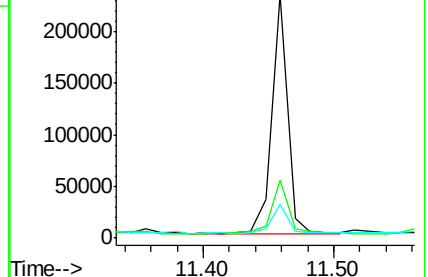
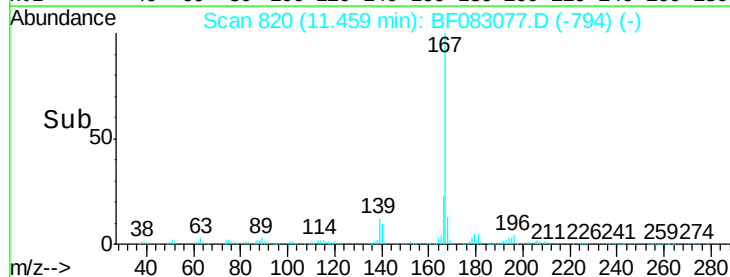
139 14.1 11.0 16.4

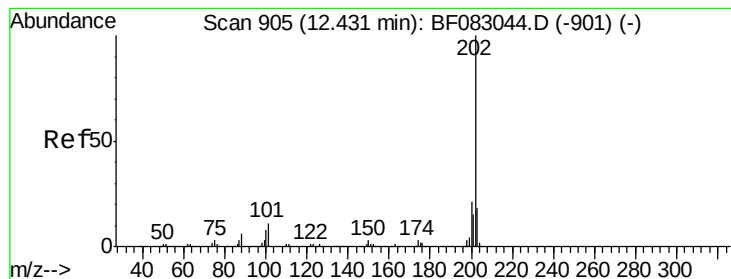


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 63.70 ng

RT: 12.44 min Scan# 906

Delta R.T. 0.01 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

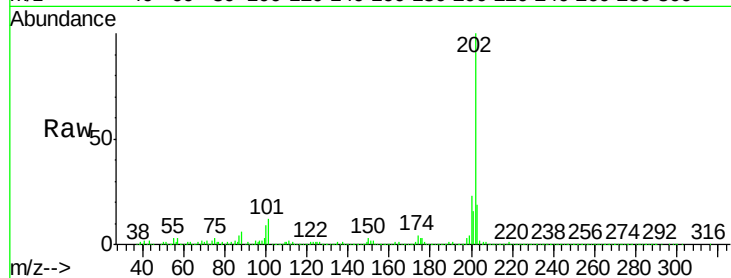
Tot Ion:202 Resp: 1750764

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.1

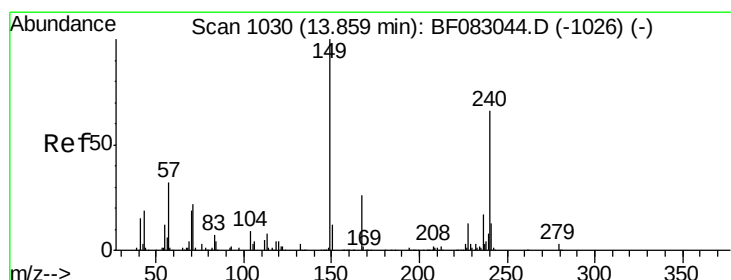
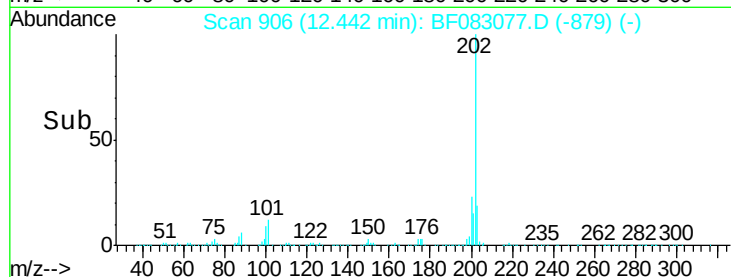
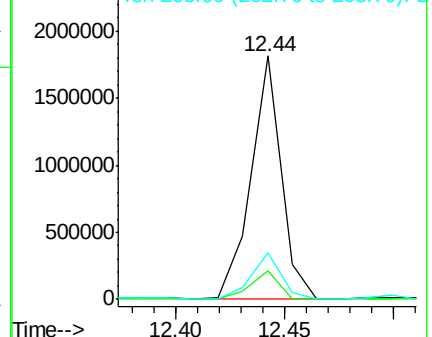
203 19.2 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

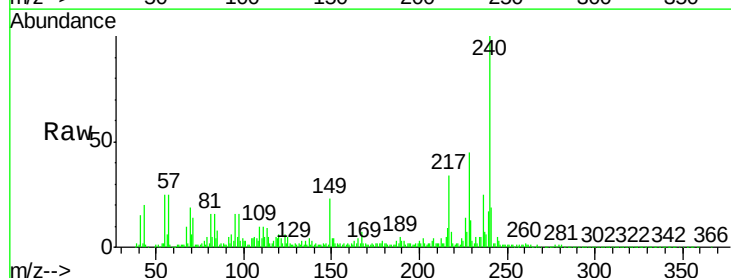
Tgt Ion:240 Resp: 356642

Ion Ratio Lower Upper

240 100

120 6.2 5.3 7.9

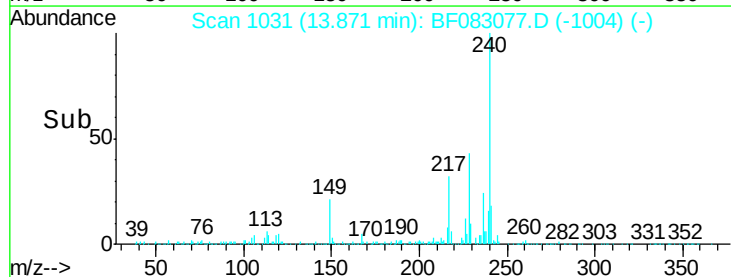
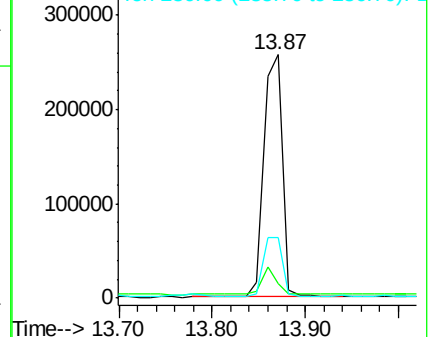
236 24.8 20.4 30.6

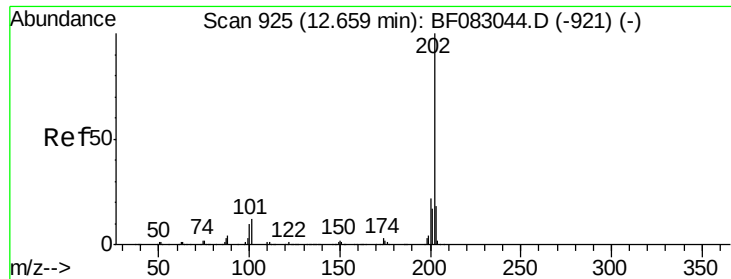


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

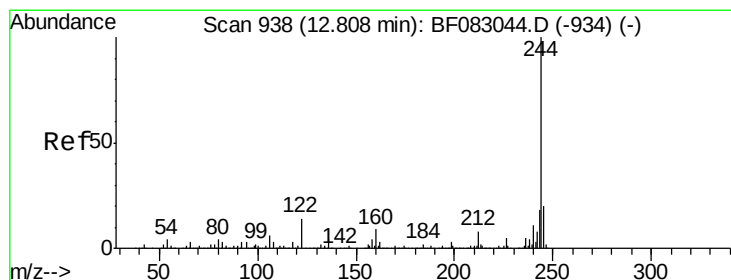
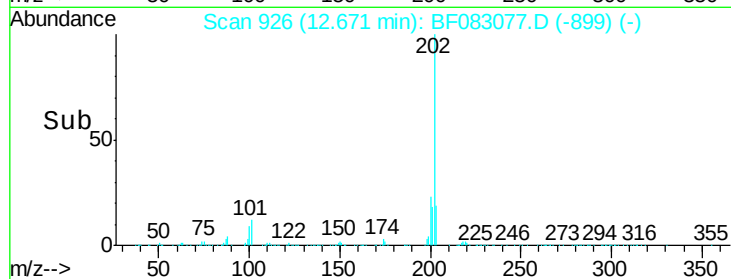
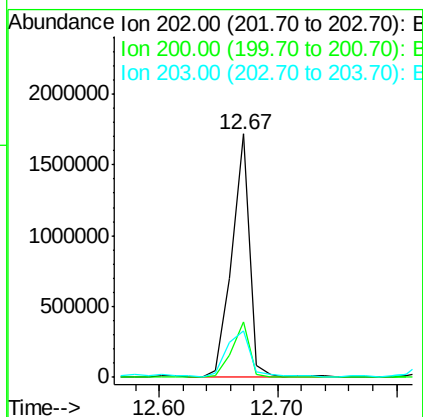
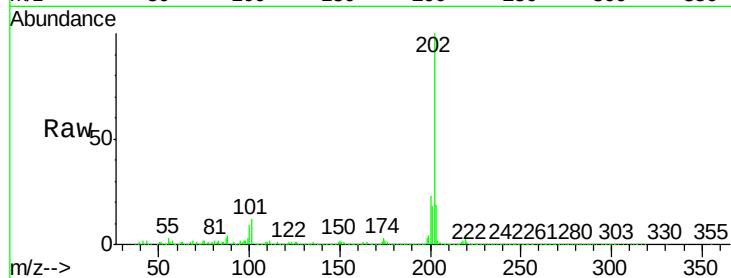




#77
Pvrene
Concen: 70.12 ng
RT: 12.67 min Scan# 926
Delta R.T. 0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

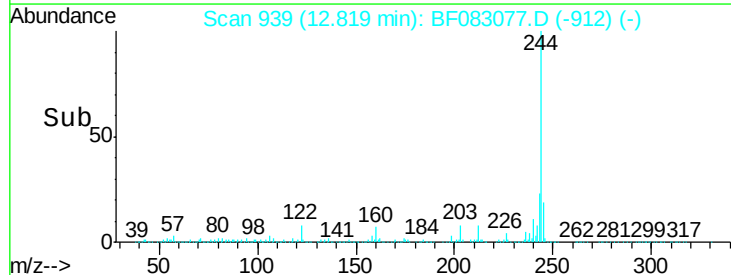
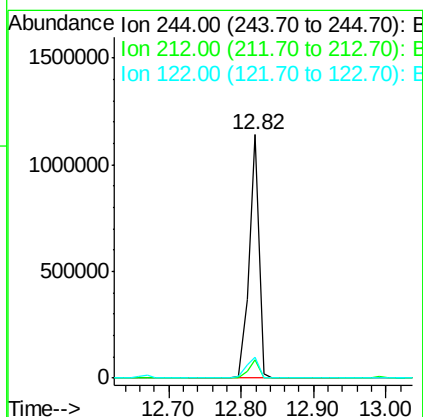
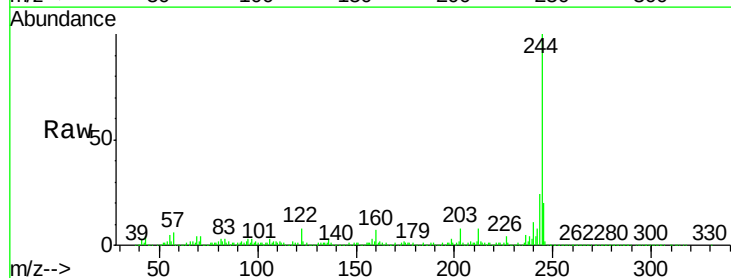
Instrument :
BNA_F
ClientSampleId :
RW-20151116-01

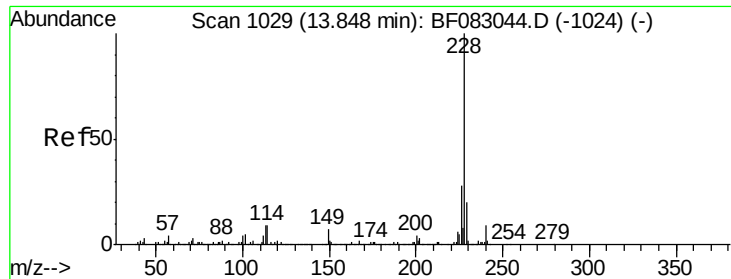
Tot Ion:202 Resp: 1760564
Ion Ratio Lower Upper
202 100
200 22.7 17.6 26.4
203 19.1 14.6 22.0



#78
Terphenyl-d14
Concen: 70.13 ng
RT: 12.82 min Scan# 939
Delta R.T. 0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Tgt Ion:244 Resp: 1059495
Ion Ratio Lower Upper
244 100
212 7.8 6.4 9.6
122 8.3 10.9 16.3#

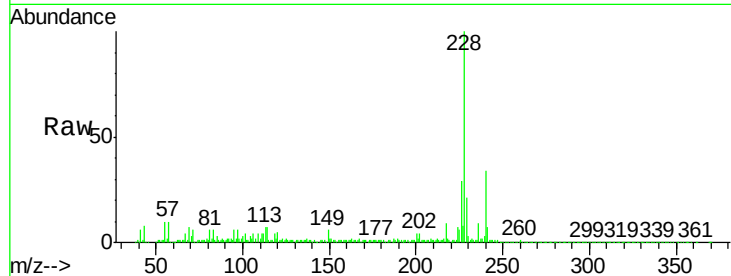




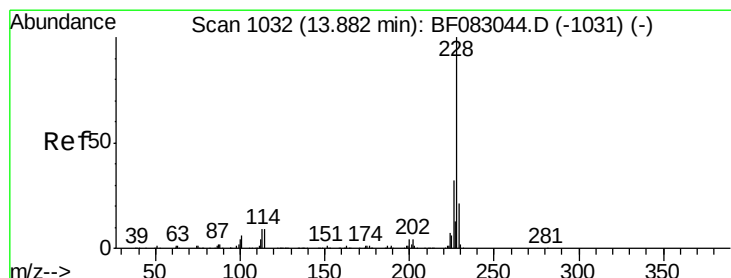
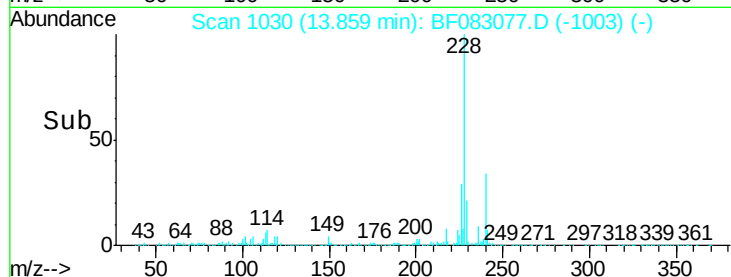
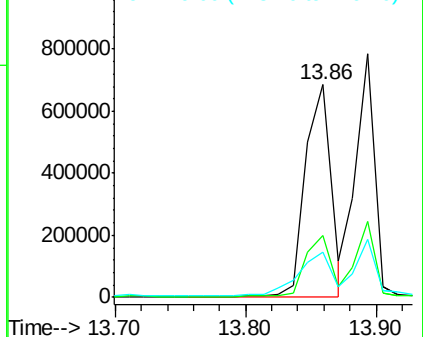
#80
Benzo(a)anthracene
Concen: 40.84 ng
RT: 13.86 min Scan# 1030
Delta R.T. 0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Instrument :
BNA_F
ClientSampleId :
RW-20151116-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	34.0
229	21.3	16.1	24.1

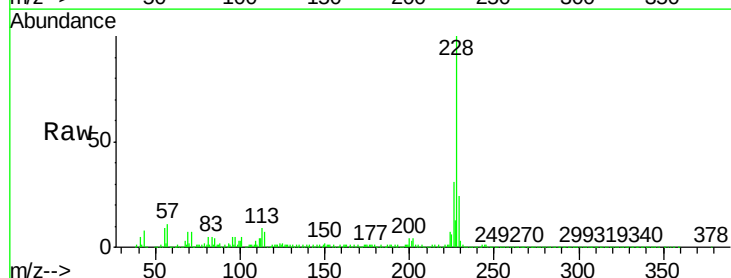


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

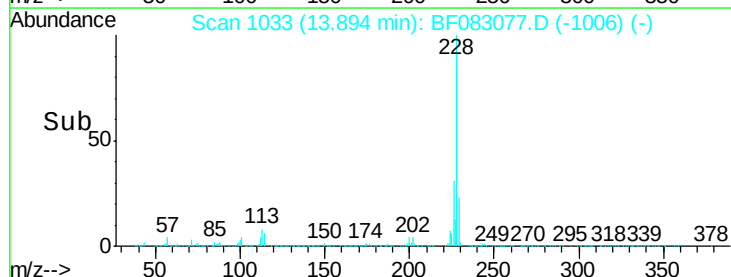
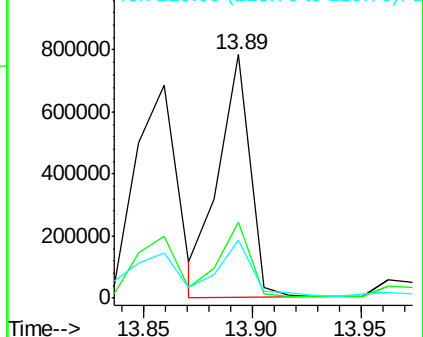


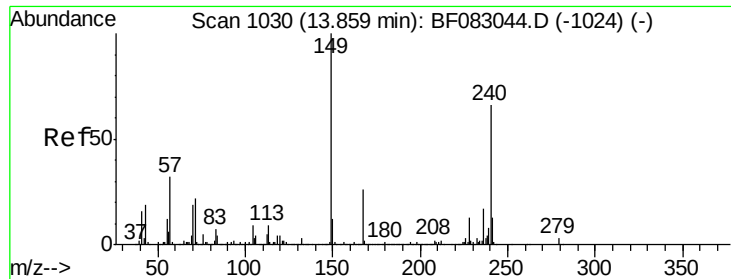
#82
Chrysene
Concen: 37.49 ng
RT: 13.89 min Scan# 1033
Delta R.T. 0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.3	37.9
229	23.8	16.4	24.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

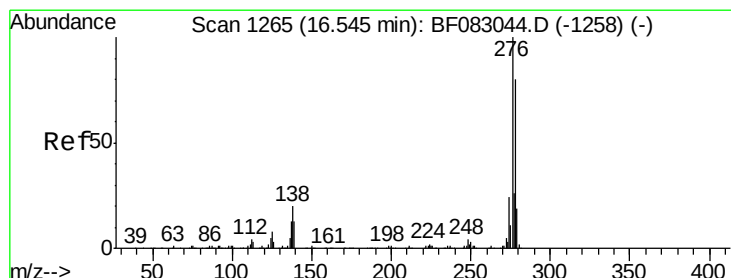
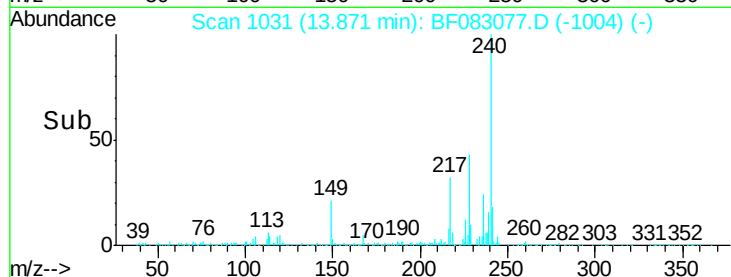
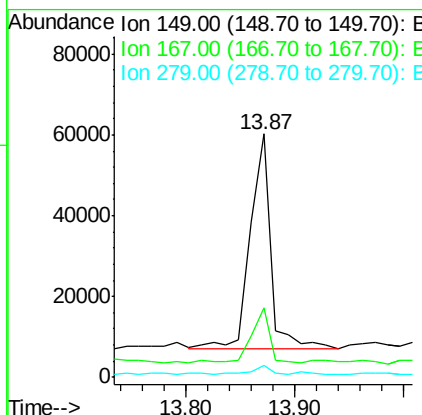
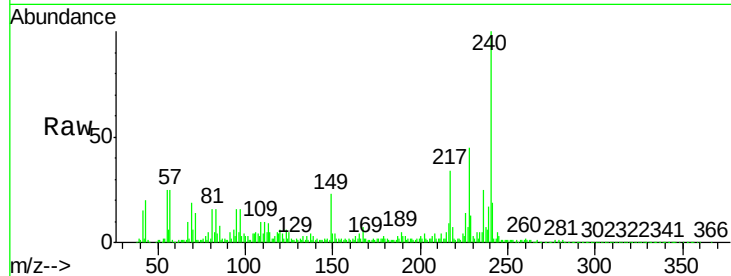




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.74 ng
 RT: 13.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

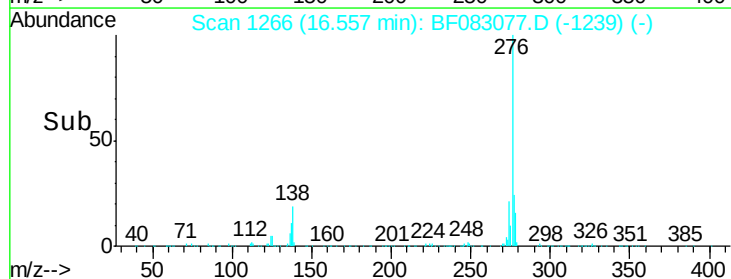
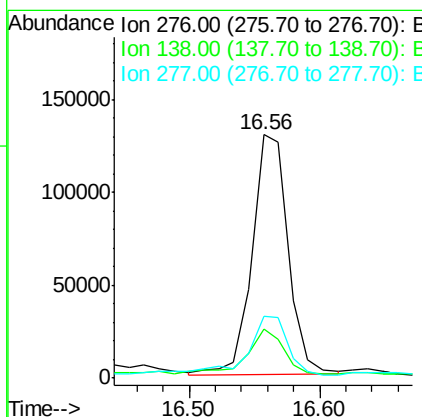
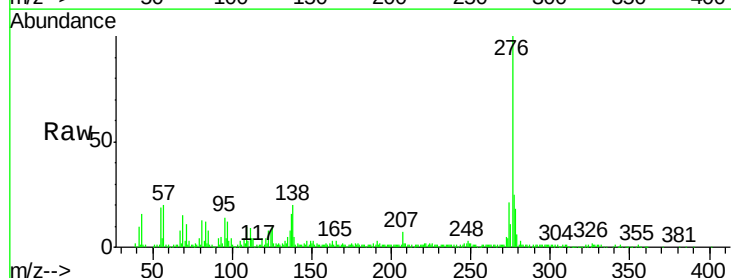
Instrument :
 BNA_F
 ClientSampleId :
 RW-20151116-01

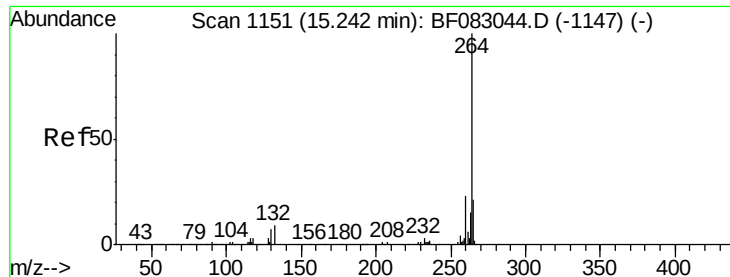
Tot Ion:149 Resp: 68783
 Ion Ratio Lower Upper
 149 100
 167 28.8 20.9 31.3
 279 4.9 2.0 3.0#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.80 ng
 RT: 16.56 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: BF083077.D
 Acq: 20 Nov 2015 12:57

Tgt Ion:276 Resp: 250321
 Ion Ratio Lower Upper
 276 100
 138 18.9 16.3 24.5
 277 28.0 19.8 29.8

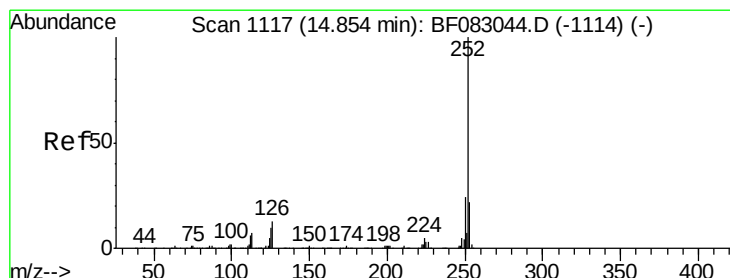
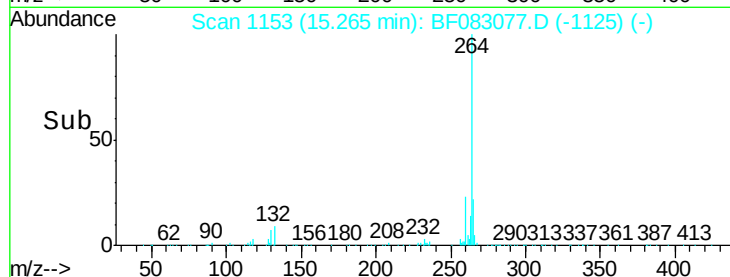
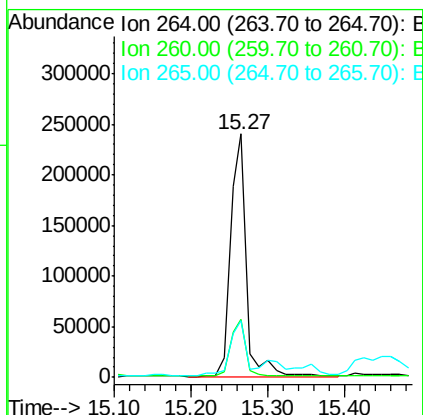
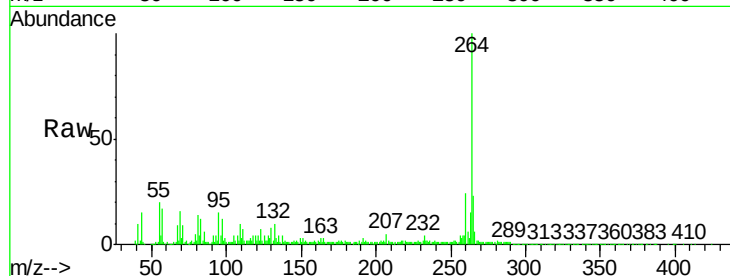




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.27 min Scan# 1153
Delta R.T. 0.02 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

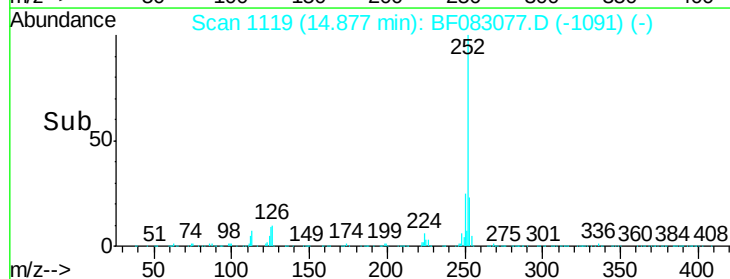
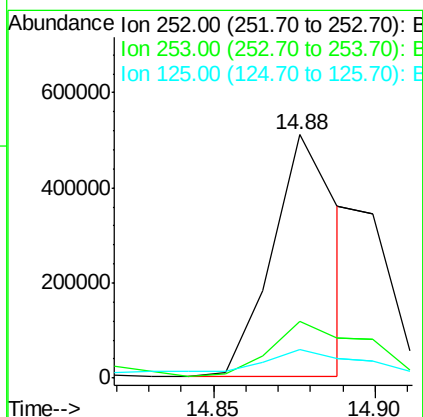
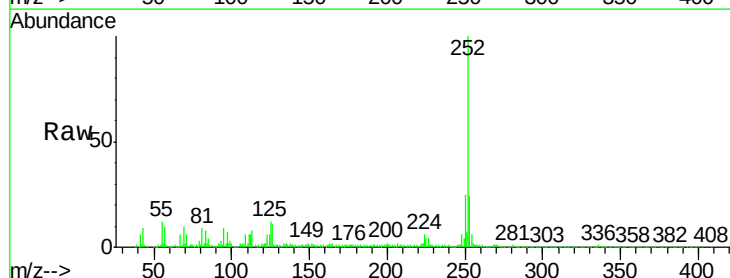
Instrument :
BNA_F
ClientSampleId :
RW-20151116-01

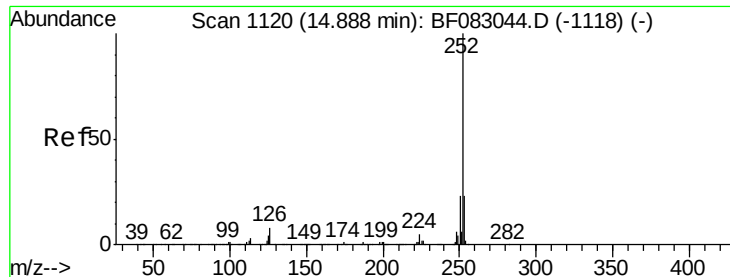
Tot Ion:264 Resp: 351788
Ion Ratio Lower Upper
264 100
260 23.9 18.6 27.8
265 23.1 17.0 25.6



#87
Benzo(b)fluoranthene
Concen: 29.45 ng m
RT: 14.88 min Scan# 1119
Delta R.T. 0.02 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Tgt Ion:252 Resp: 724513
Ion Ratio Lower Upper
252 100
253 23.6 17.6 26.4
125 11.8 7.7 11.5#





#88

Benzo(k)fluoranthene

Concen: 14.60 ng m

RT: 14.89 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

Instrument :

BNA_F

ClientSampleId :

RW-20151116-01

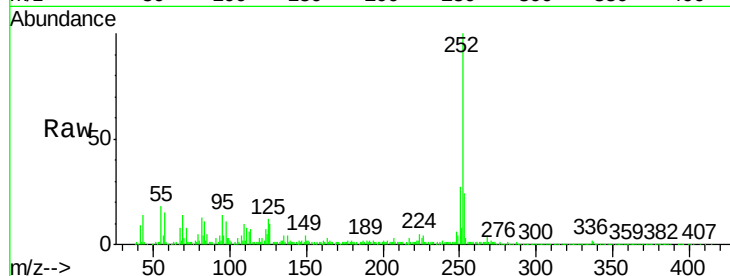
Tot Ion:252 Resp: 273552

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.6

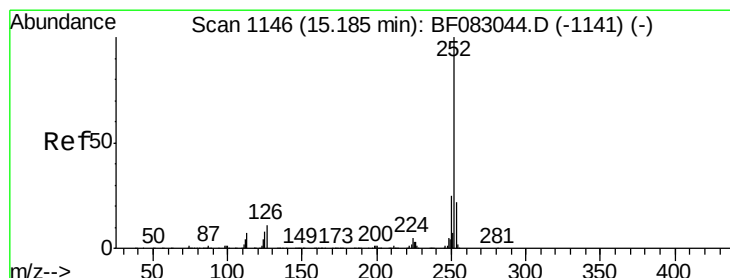
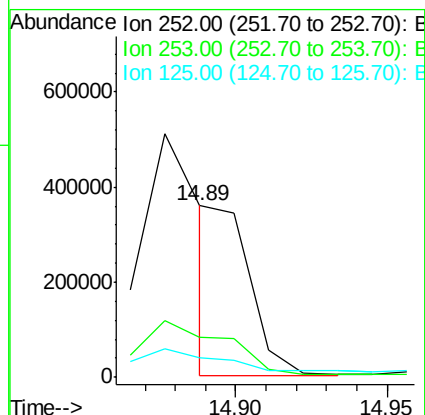
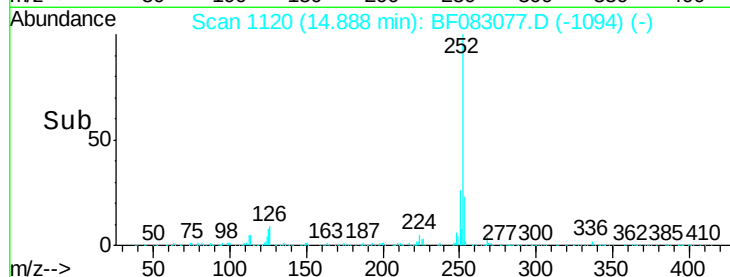
125 11.6 3.8 5.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 27.15 ng

RT: 15.21 min Scan# 1148

Delta R.T. 0.02 min

Lab File: BF083077.D

Acq: 20 Nov 2015 12:57

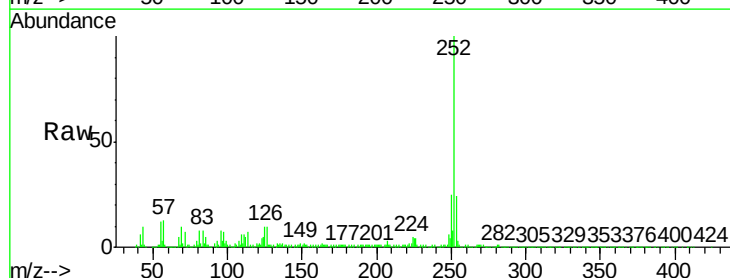
Tgt Ion:252 Resp: 536019

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

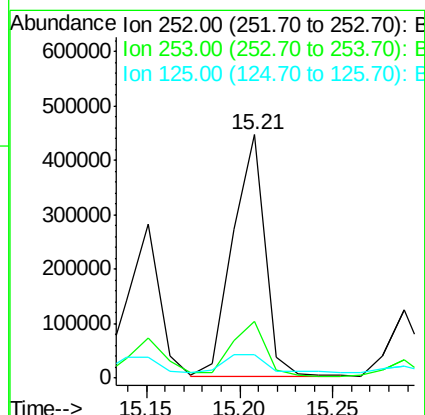
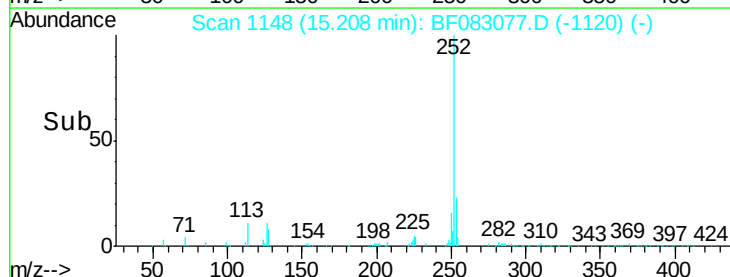
125 9.5 6.4 9.6

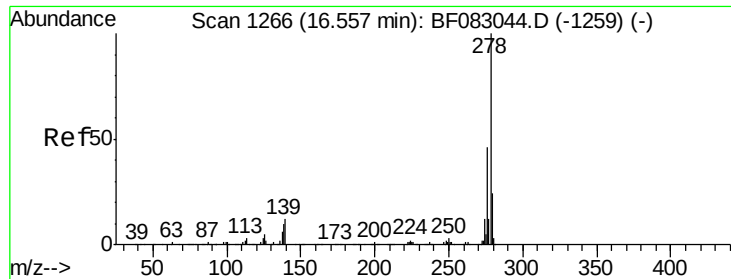


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

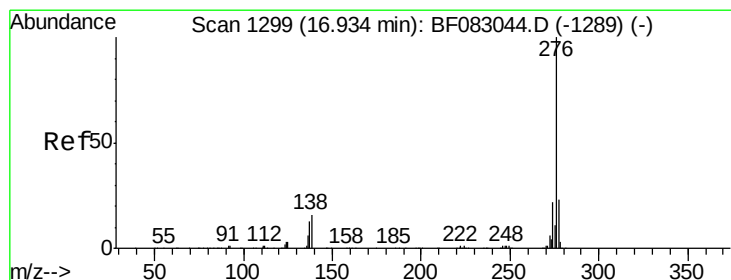
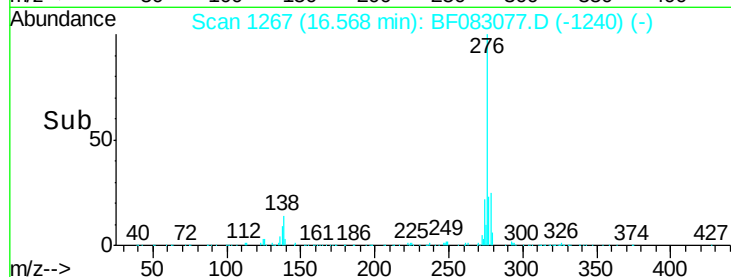
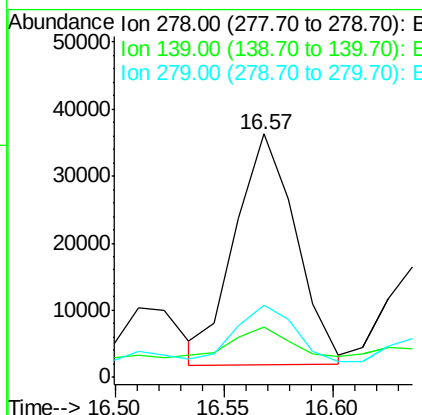
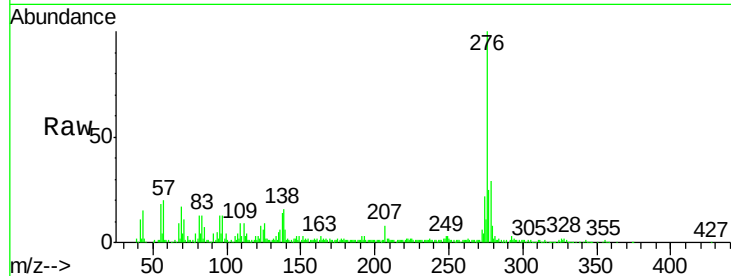




#90
Dibenzo(a,h)anthracene
Concen: 3.89 ng
RT: 16.57 min Scan# 1267
Delta R.T. 0.01 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Instrument :
BNA_F
ClientSampleId :
RW-20151116-01

Tot Ion:278 Resp: 66799
Ion Ratio Lower Upper
278 100
139 20.8 9.8 14.8#
279 29.6 19.6 29.4#



#91
Benzo(g,h,i)perylene
Concen: 12.99 ng
RT: 16.96 min Scan# 1301
Delta R.T. 0.02 min
Lab File: BF083077.D
Acq: 20 Nov 2015 12:57

Tgt Ion:276 Resp: 217712
Ion Ratio Lower Upper
276 100
277 23.9 18.6 27.8
138 17.2 12.5 18.7

