

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082337.D
 Acq On : 16 Oct 2015 20:41
 Operator : UM/IZ
 Sample : G4046-02 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58

Manual Integrations
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 10/19/2015 5:32:26 PM

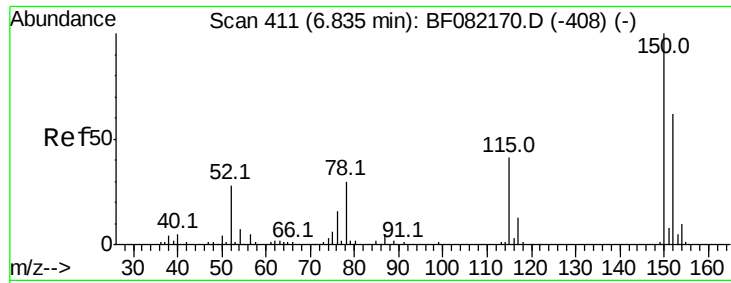
Quant Time: Oct 19 02:11:07 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	52994m	20.00	ng	0.09
21) Naphthalene-d8	8.21	136	243928m	20.00	ng	0.08
38) Acenaphthene-d10	9.95	164	130707m	20.00	ng	0.07
63) Phenanthrene-d10	11.45	188	216214m	20.00	ng	0.08
75) Chrysene-d12	14.18	240	201193m	20.00	ng	0.17
86) Perylene-d12	15.77	264	207898m	20.00	ng	0.33

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.53	112	19749	7.52	ng	0.10
7) Phenol-d6	6.56	99	26821	7.85	ng	0.08
23) Nitrobenzene-d5	7.49	82	17075m	4.70	ng	0.07
41) 2,4,6-Tribromophenol	10.75	330	9803m	8.00	ng	0.08
44) 2-Fluorobiphenyl	9.27	172	48739m	6.18	ng	0.06
78) Terphenyl-d14	13.04	244	53751m	7.08	ng	0.08

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
27) 2,4-Dimethylphenol	8.00	122	14915m	4.72	ng	
31) Naphthalene	8.23	128	79793m	7.55	ng	
37) 2-Methylnaphthalene	8.91	142	142122m	19.39	ng	
45) 1,1'-Biphenyl	9.37	154	111541m	11.19	ng	
48) Acenaphthylene	9.82	152	93142m	7.62	ng	
51) Acenaphthene	9.99	154	482090m	65.70	ng	
54) Dibenzofuran	10.17	168	1089074m	108.11	ng	
57) Fluorene	10.51	166	1336857m	161.57	ng	
70) Phenanthrene	11.51	178	6305255m	594.94	ng	
71) Anthracene	11.54	178	2023838m	185.32	ng	
72) Carbazole	11.69	167	1247157m	125.19	ng	
74) Fluoranthene	12.71	202	5953325m	523.02	ng	
77) Pvrene	12.93	202	4010573m	335.90	ng	
80) Benzo(a)anthracene	14.17	228	1625626m	155.29	ng	
82) Chrysene	14.22	228	1483214m	134.47	ng	
85) Indeno(1,2,3-cd)pyrene	17.26	276	147091m	16.78	ng	
87) Benzo(b)fluoranthene	15.34	252	1026529m	81.16	ng	
88) Benzo(k)fluoranthene	15.35	252	417733m	39.29	ng	
89) Benzo(a)pvrene	15.70	252	342768m	31.53	ng	
90) Dibenzo(a,h)anthracene	17.27	278	46104m	5.18	ng	
91) Benzo(g,h,i)perylene	17.70	276	100077m	11.56	ng	

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



#1

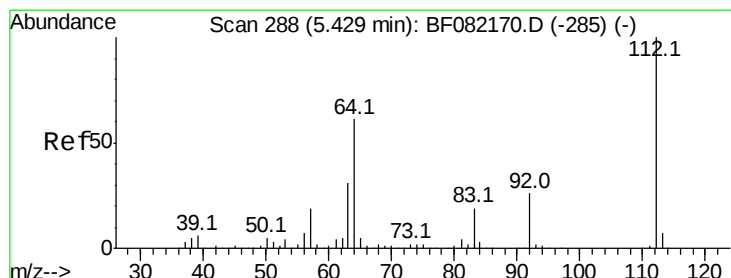
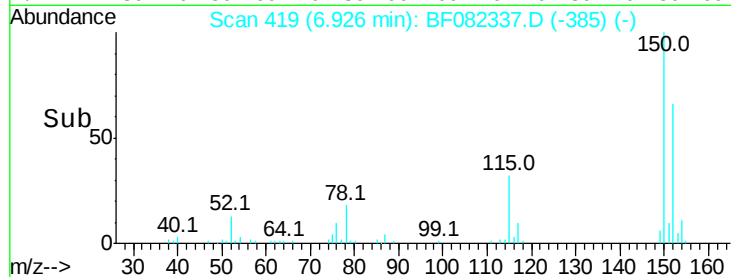
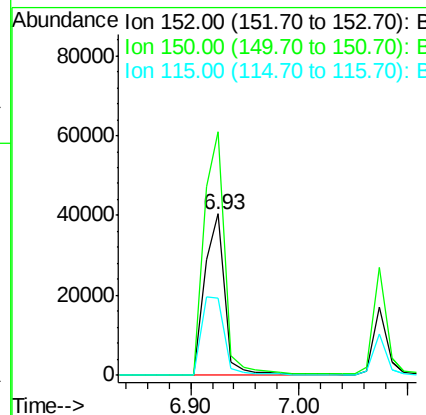
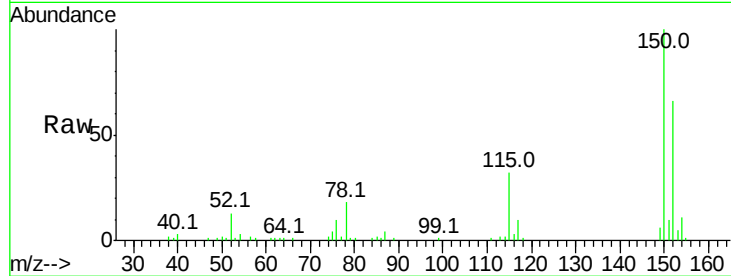
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.93 min Scan# 419
Delta R.T. 0.09 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	129.0	193.4
115	47.8	52.1	78.1#

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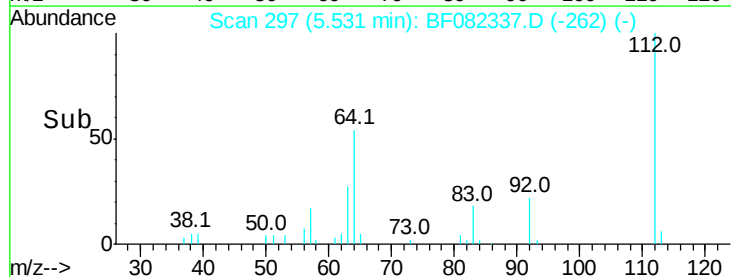
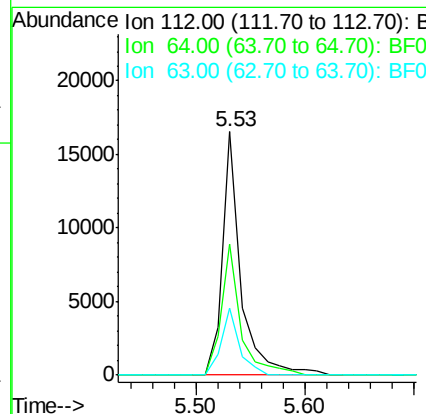
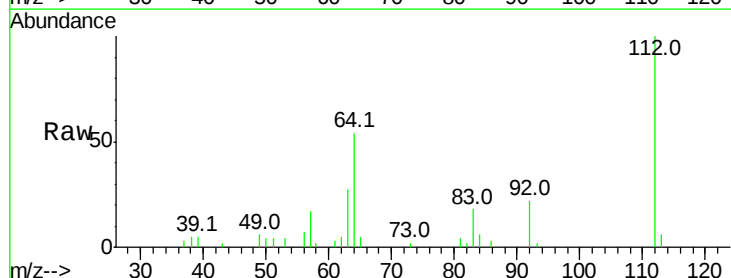
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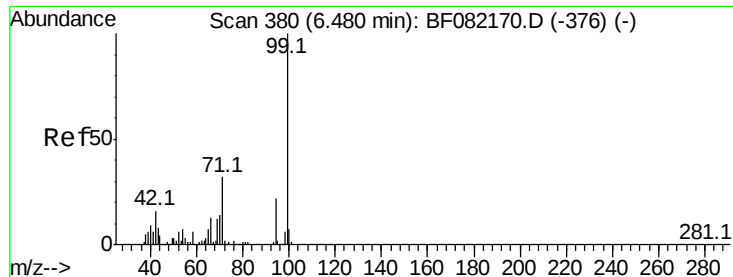


#5

2-Fluorophenol
Concen: 7.52 ng
RT: 5.53 min Scan# 297
Delta R.T. 0.10 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	48.6	73.0
63	27.5	25.1	37.7





#7

Phenol-d6

Concen: 7.85 ng

RT: 6.56 min Scan# 387

Delta R.T. 0.08 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

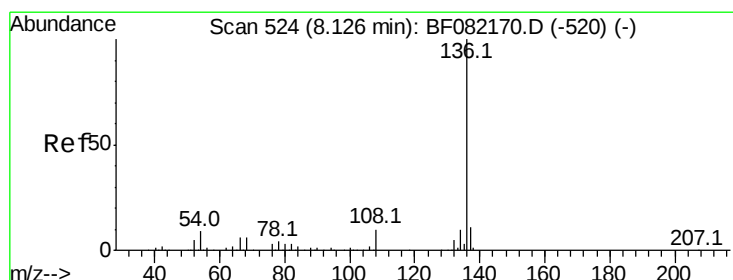
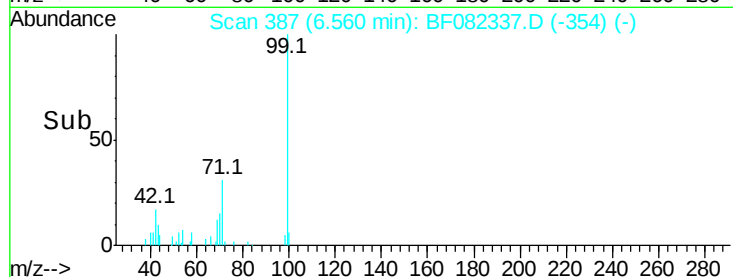
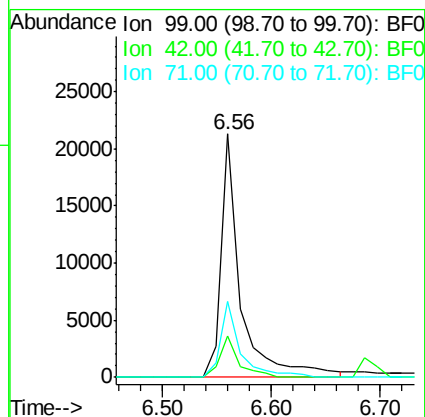
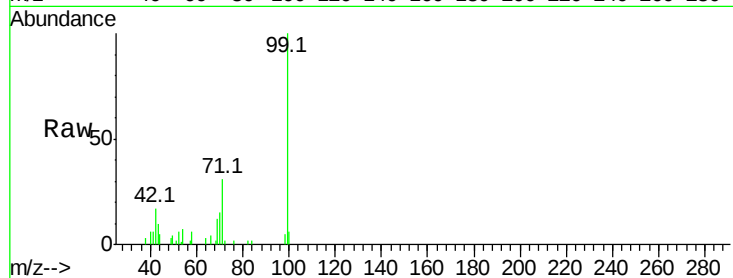
ClientSampleId :

GOODLUCK58

Tot Ion:	99	Resp:	26821
Ion Ratio	Lower	Upper	
99	100		
42	16.8	13.2	19.8
71	31.1	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng m

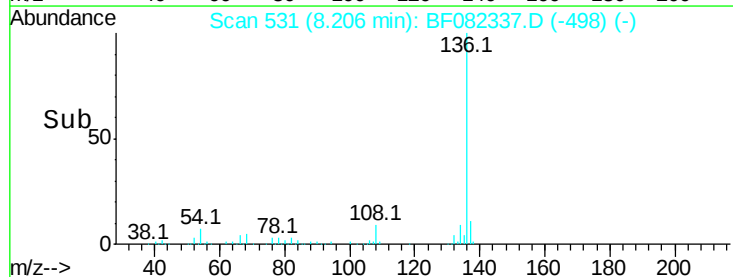
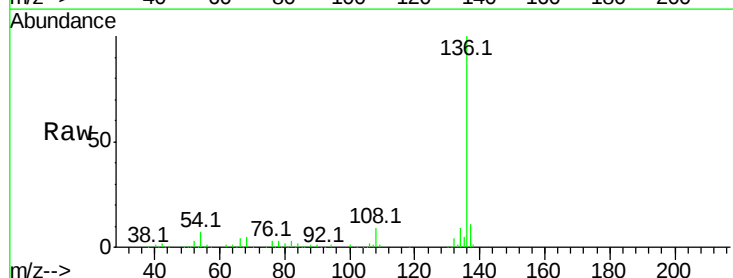
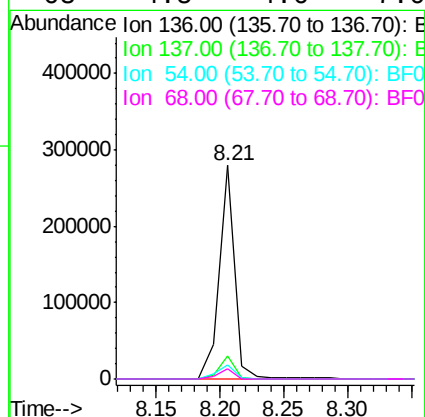
RT: 8.21 min Scan# 531

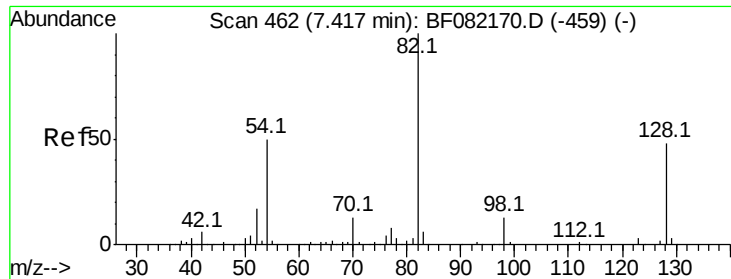
Delta R.T. 0.08 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Tgt Ion:	136	Resp:	243928
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.0	13.6
54	6.6	7.5	11.3#
68	4.5	4.6	7.0#





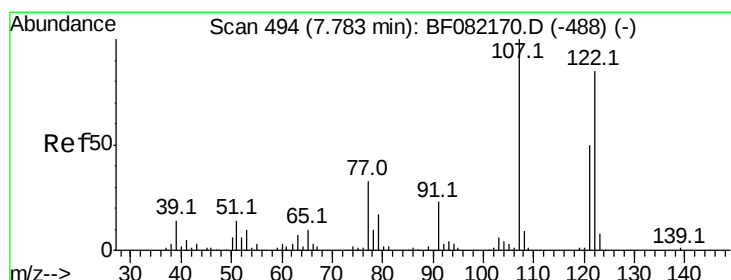
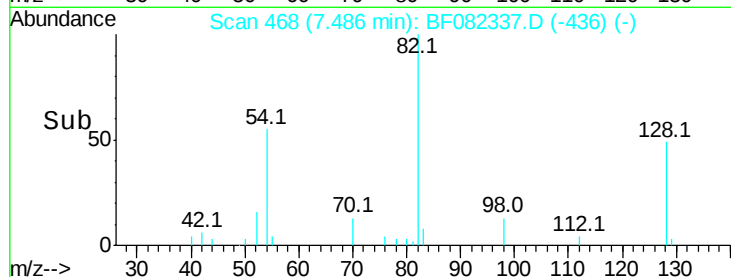
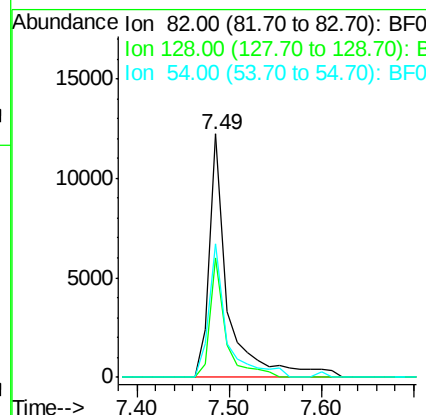
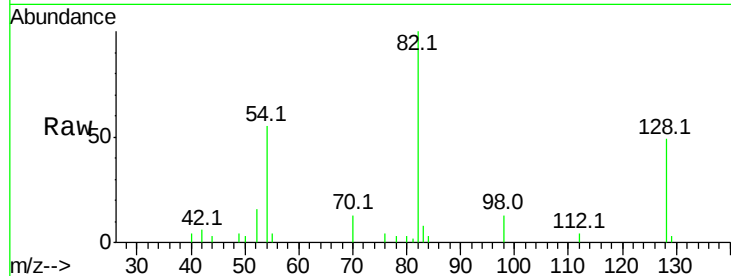
#23
 Nitrobenzene-d5
 Concen: 4.70 ng/ml
 RT: 7.49 min Scan# 468
 Delta R.T. 0.07 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.1	38.7	58.1
54	54.6	40.1	60.1

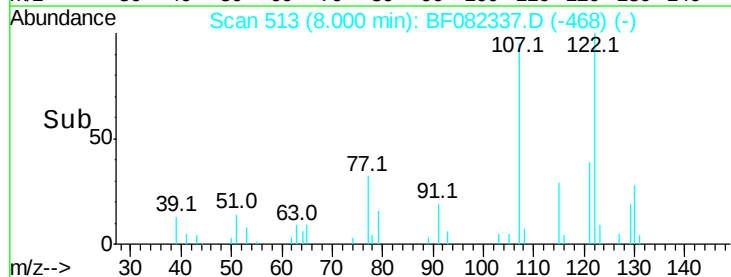
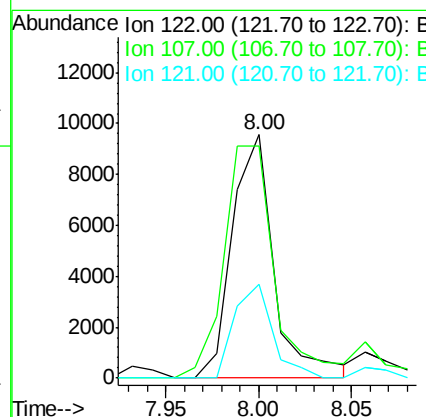
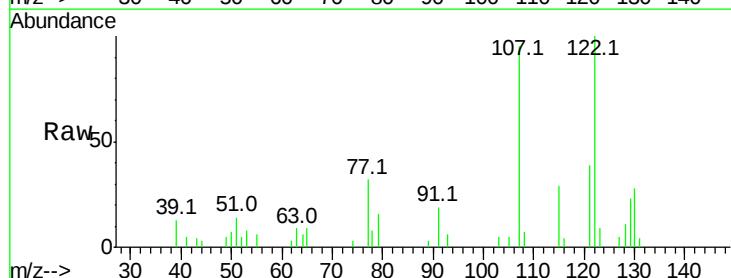
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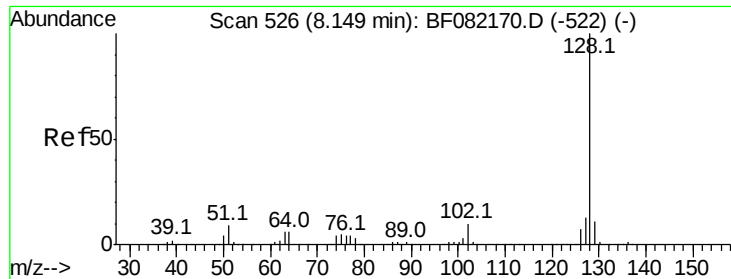
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#27
 2,4-Dimethylphenol
 Concen: 4.72 ng/ml
 RT: 8.00 min Scan# 513
 Delta R.T. 0.22 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
122	100		
107	95.4	94.0	141.0
121	38.6	46.8	70.2





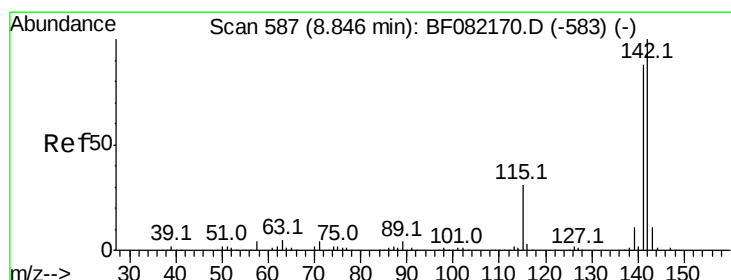
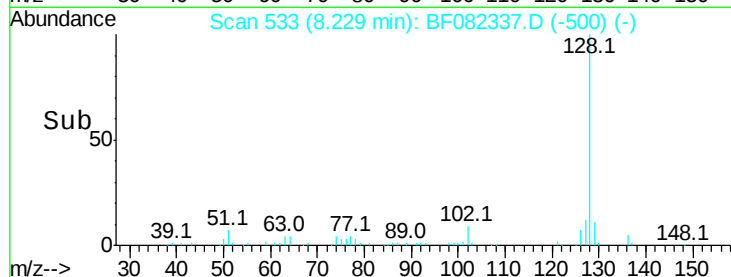
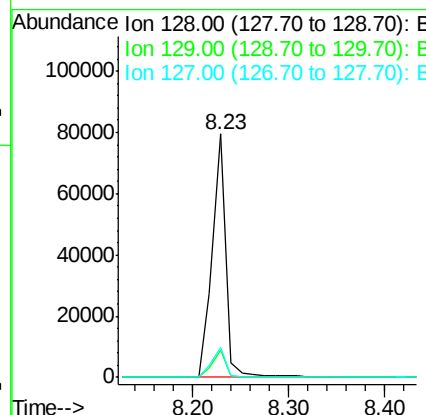
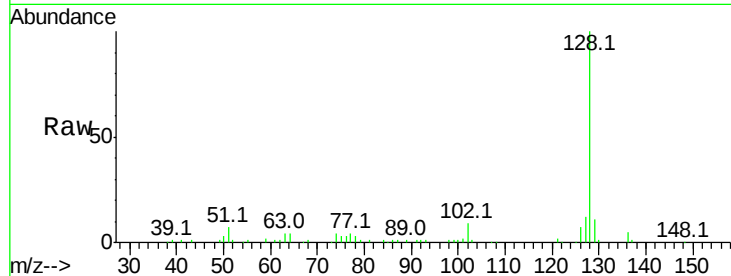
#31
Naphthalene
Concen: 7.55 ng m
RT: 8.23 min Scan# 533
Delta R.T. 0.08 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	12.3	10.7	16.1

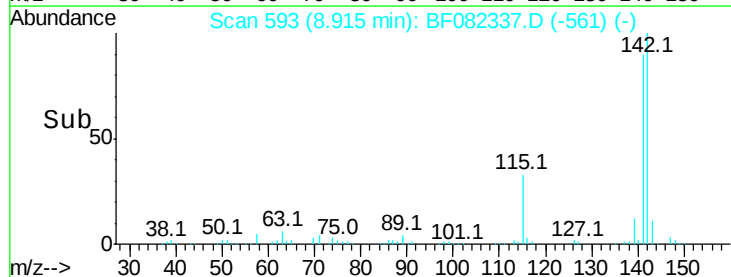
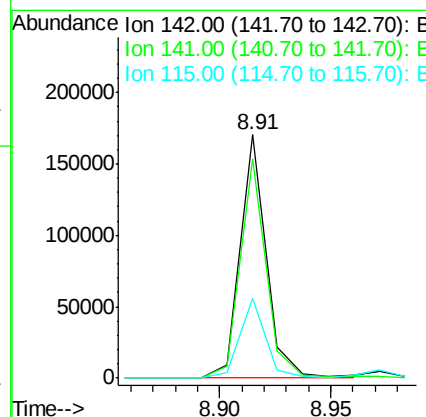
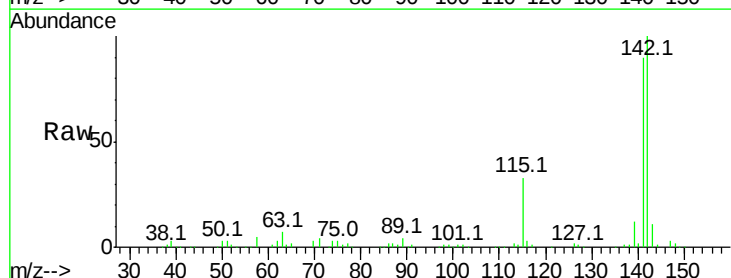
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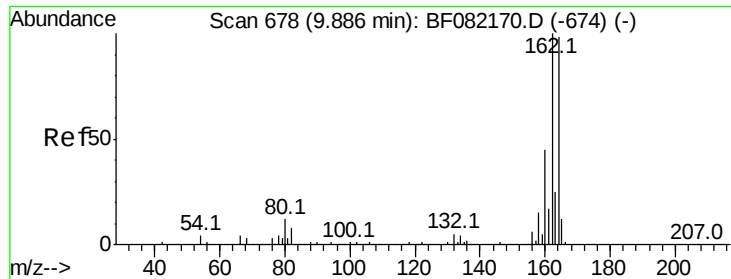
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#37
2-Methylnaphthalene
Concen: 19.39 ng m
RT: 8.91 min Scan# 593
Delta R.T. 0.07 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.4	105.6
115	32.9	24.6	37.0





#38

Acenaphthene-d10

Concen: 20.00 ng m

RT: 9.95 min Scan# 684

Delta R.T. 0.07 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

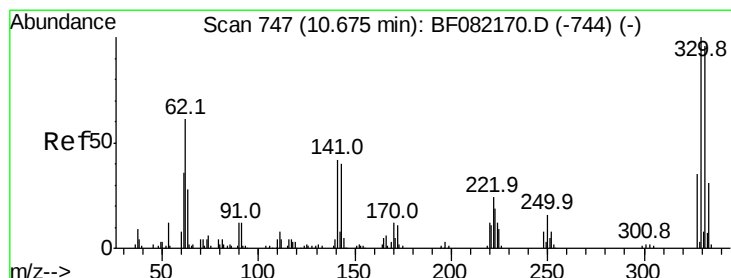
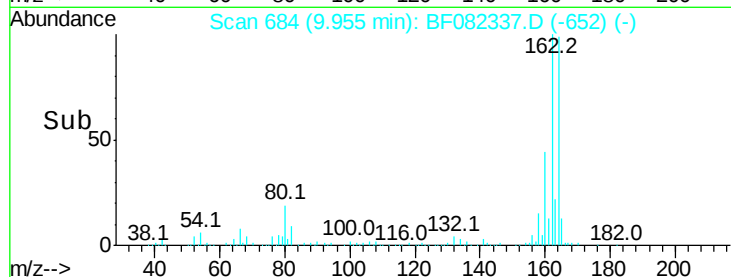
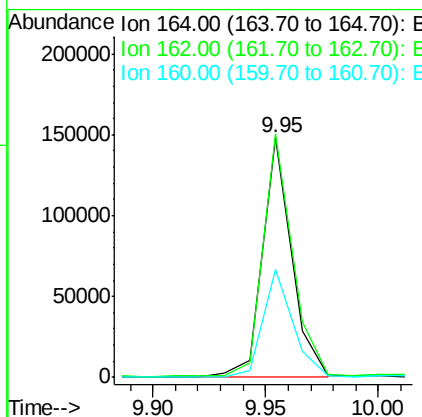
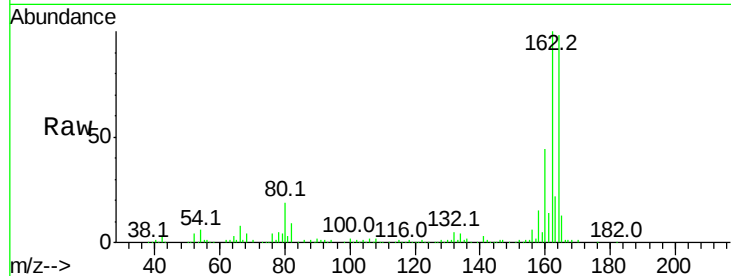
ClientSampleId :

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Tot Ion:	164	Resp:	130707
Ion Ratio	Lower	Upper	
164	100		
162	101.7	81.6	122.4
160	45.1	36.4	54.6

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#41

2,4,6-Tribromophenol

Concen: 8.00 ng m

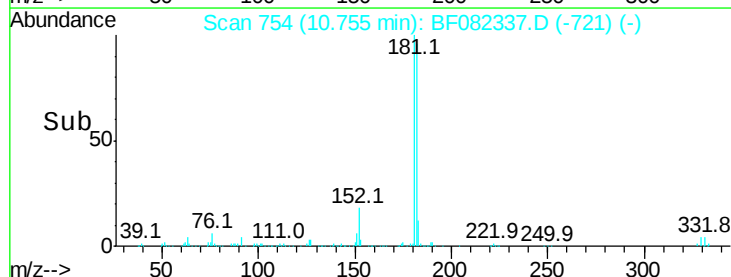
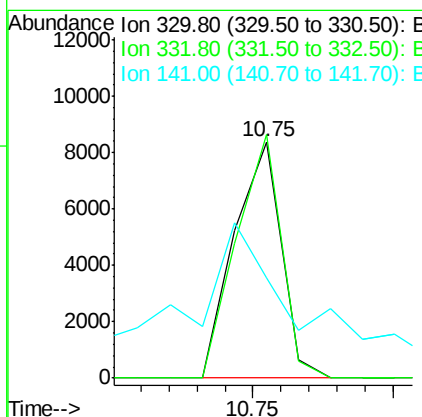
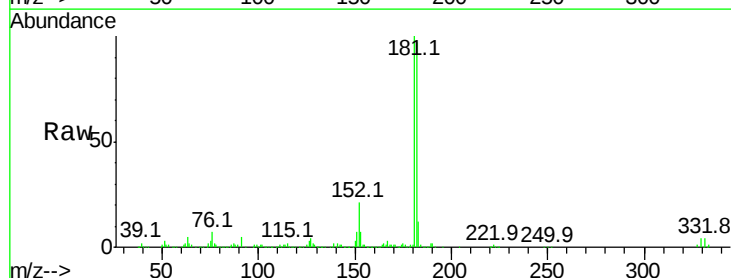
RT: 10.75 min Scan# 754

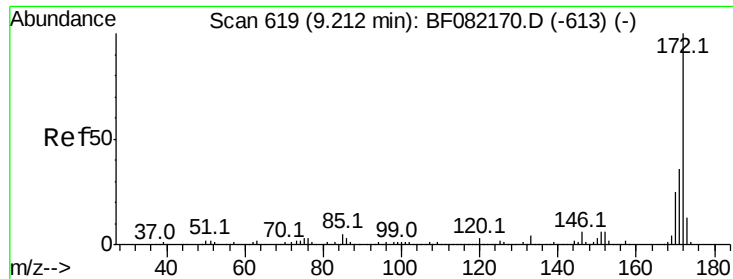
Delta R.T. 0.08 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Tgt Ion:	330	Resp:	9803
Ion Ratio	Lower	Upper	
330	100		
332	0.0	77.1	115.7#
141	0.0	29.8	44.8#





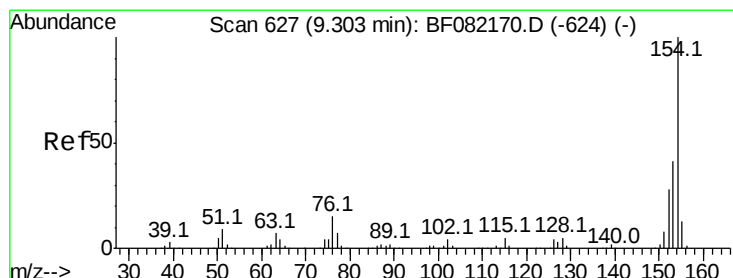
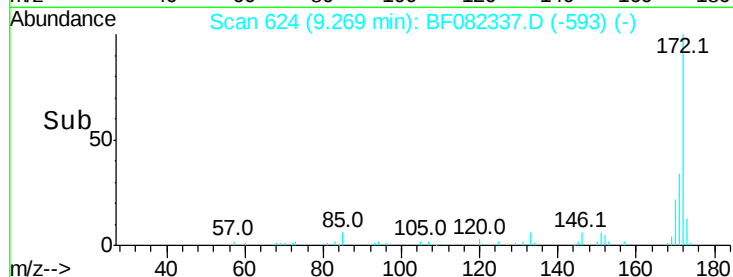
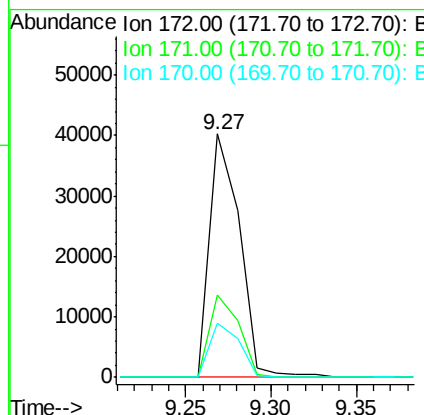
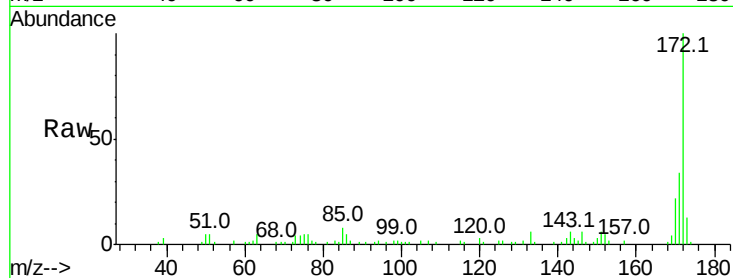
#44
 2-Fluorobiphenyl
 Concen: 6.18 ng m
 RT: 9.27 min Scan# 624
 Delta R.T. 0.06 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58

Manual Integrations
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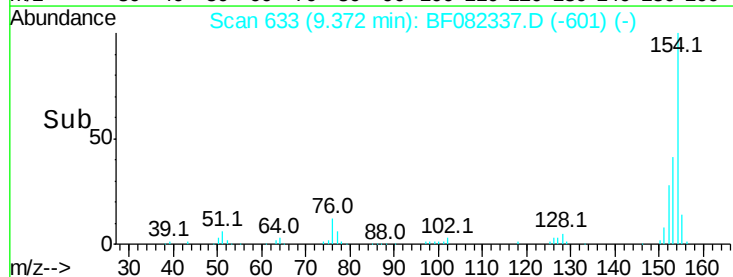
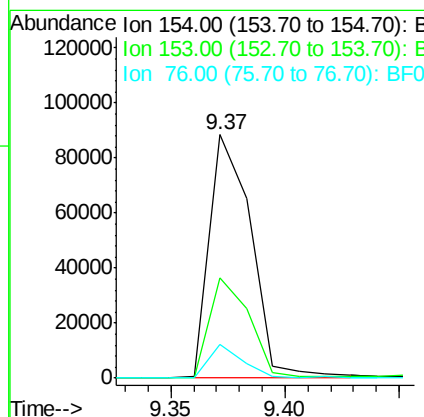
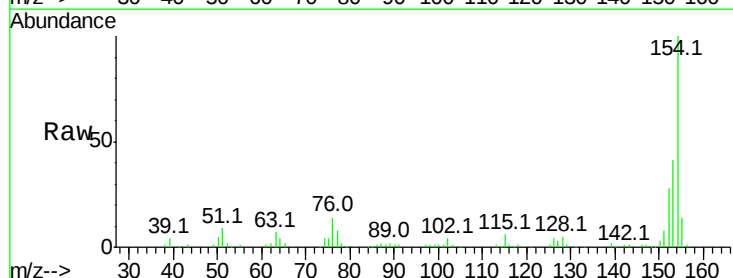
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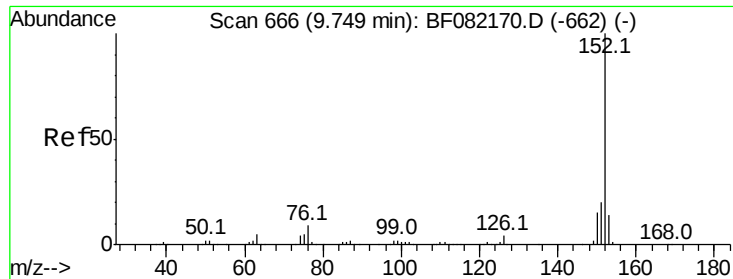
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.6	42.8
170	22.1	19.7	29.5



#45
 1,1'-Biphenyl
 Concen: 11.19 ng m
 RT: 9.37 min Scan# 633
 Delta R.T. 0.07 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.6	60.6
76	13.8	0.0	35.2





#48

Acenaphthylene

Concen: 7.62 ng m

RT: 9.82 min Scan# 672

Delta R.T. 0.07 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

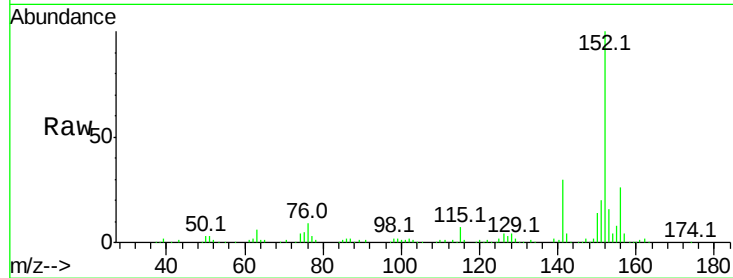
ClientSampleId :

GOODLUCK58

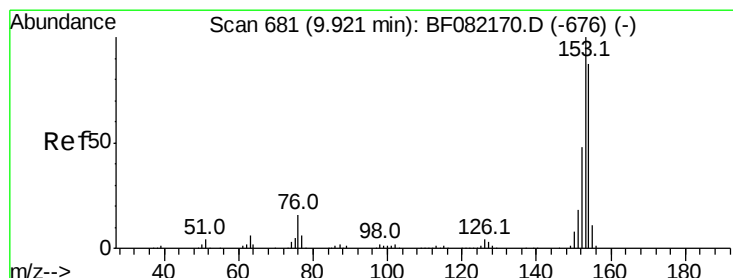
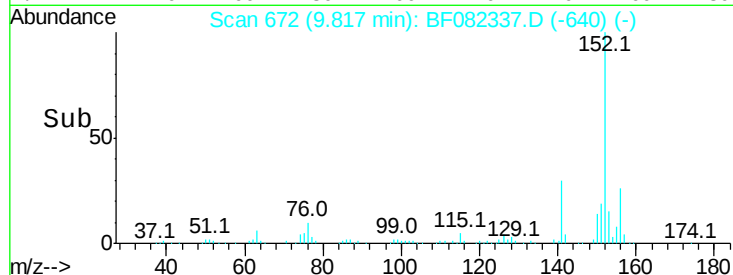
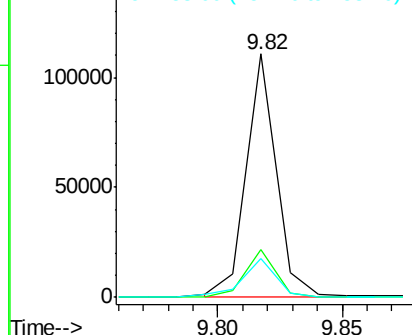
Tot Ion:	152	Resp:	93142
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.4	24.6
153	16.1	10.8	16.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 65.70 ng m

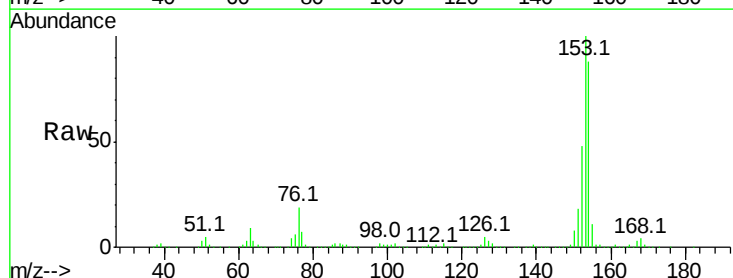
RT: 9.99 min Scan# 687

Delta R.T. 0.07 min

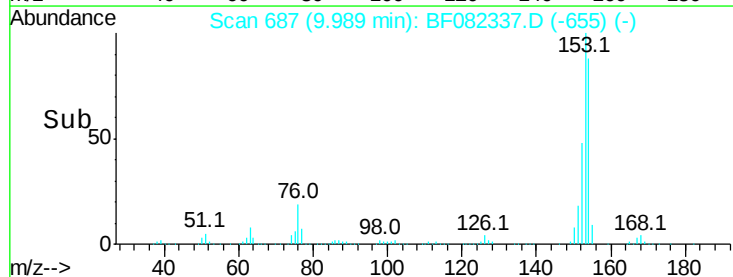
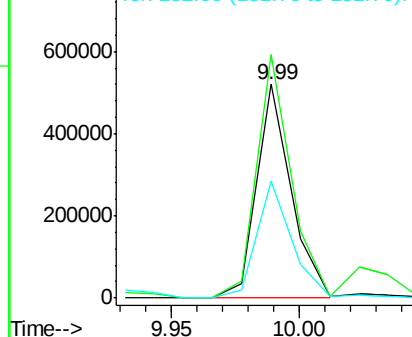
Lab File: BF082337.D

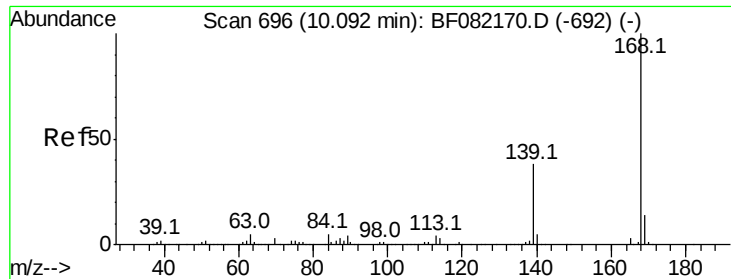
Acq: 16 Oct 2015 20:41

Tgt Ion:	154	Resp:	482090
Ion Ratio	Lower	Upper	
154	100		
153	114.0	91.4	137.2
152	54.8	44.3	66.5



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





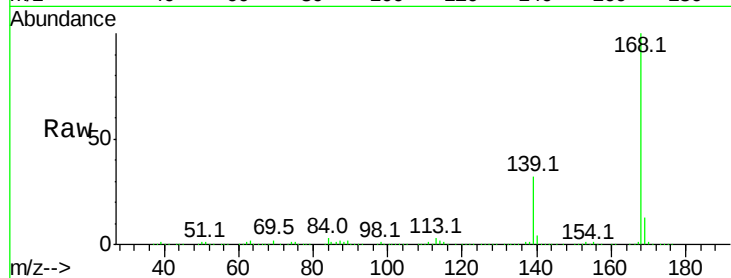
#54
Dibenzenofuran
Concen: 108.11 ng m
RT: 10.17 min Scan# 703
Delta R.T. 0.08 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

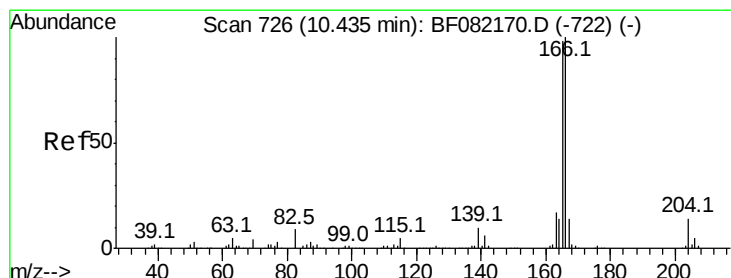
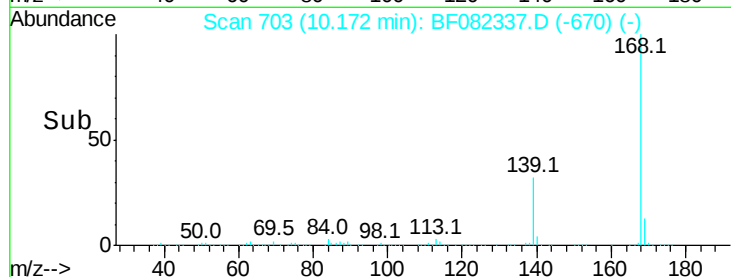
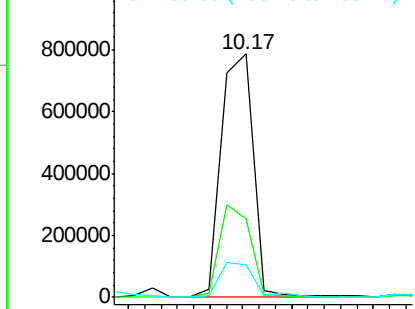
Tot Ion:168 Resp: 1089074
Ion Ratio Lower Upper
168 100
139 32.2 31.0 46.6
169 13.1 10.9 16.3

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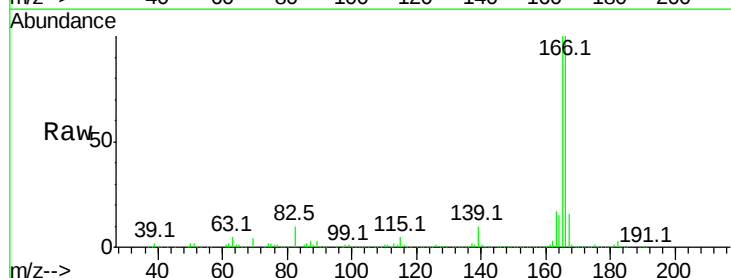


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

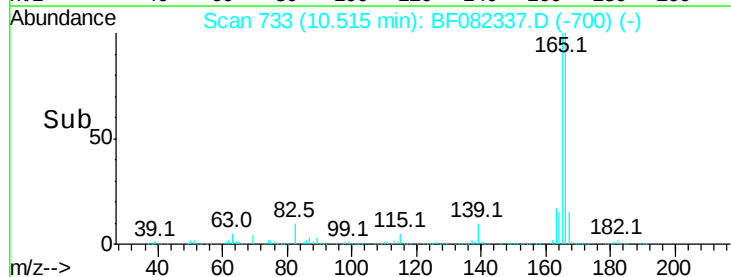
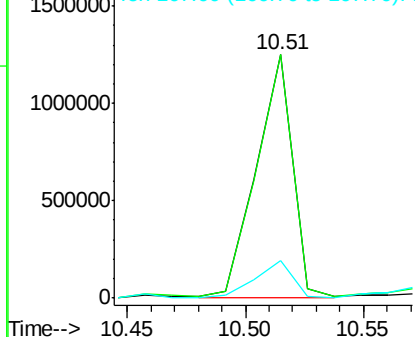


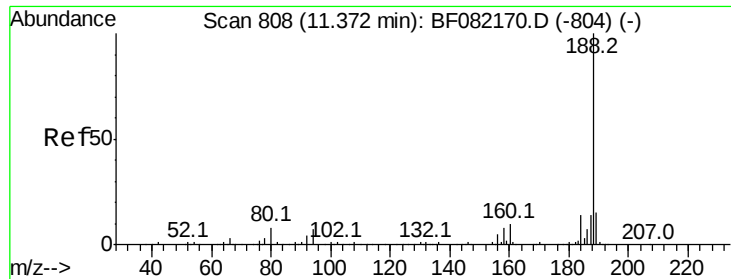
#57
Fluorene
Concen: 161.57 ng m
RT: 10.51 min Scan# 733
Delta R.T. 0.08 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion:166 Resp: 1336857
Ion Ratio Lower Upper
166 100
165 100.1 78.3 117.5
167 15.6 10.8 16.2



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 m

RT: 11.45 min Scan# 815

Delta R.T. 0.08 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

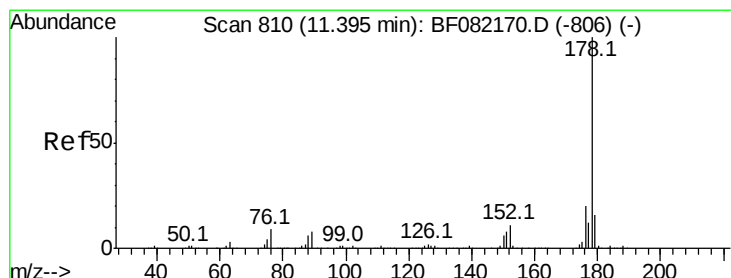
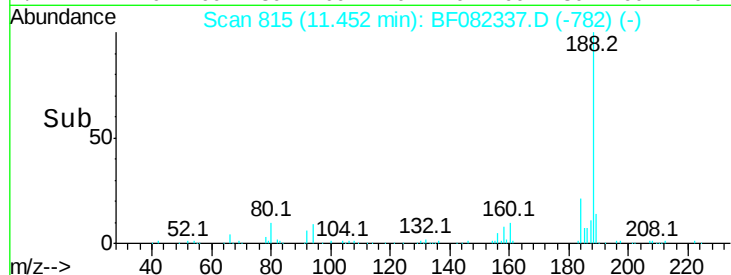
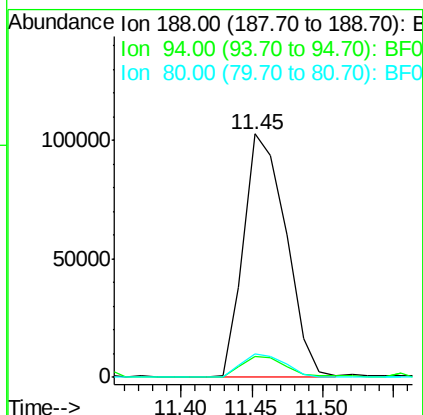
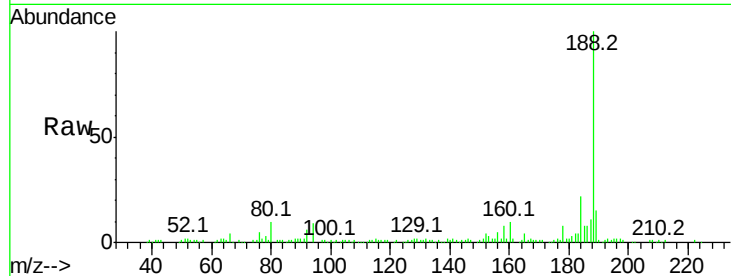
ClientSampleId :

GOODLUCK58

Tot Ion:	188	Resp:	216214
Ion Ratio	Lower	Upper	
188	100		
94	8.6	5.8	8.6
80	9.7	6.4	9.6#

Manual Integrations
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#70

Phenanthrene

Concen: 594.94 ng m

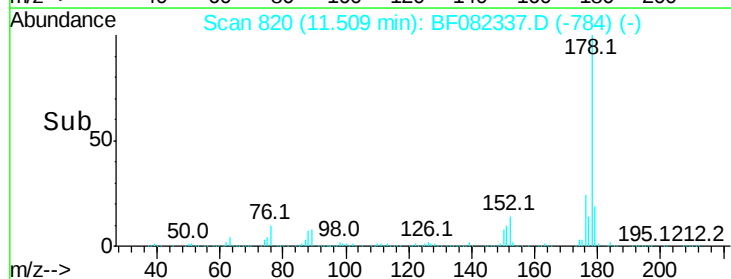
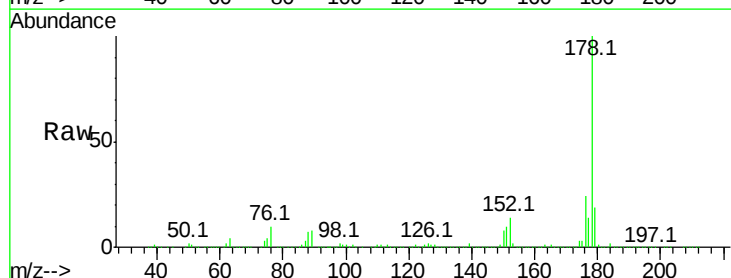
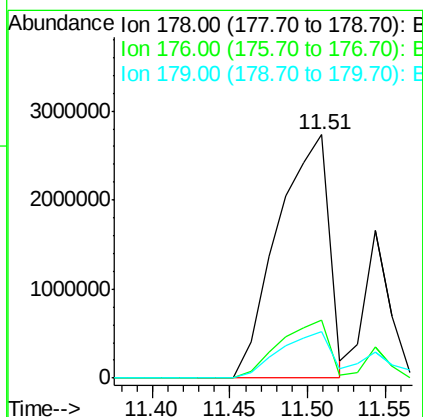
RT: 11.51 min Scan# 820

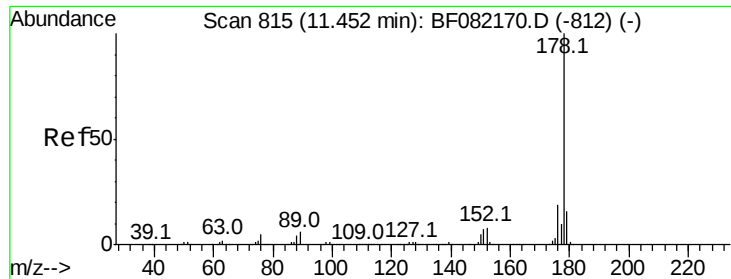
Delta R.T. 0.11 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Tgt Ion:	178	Resp:	6305255
Ion Ratio	Lower	Upper	
178	100		
176	24.1	16.0	24.0#
179	19.1	12.6	19.0#





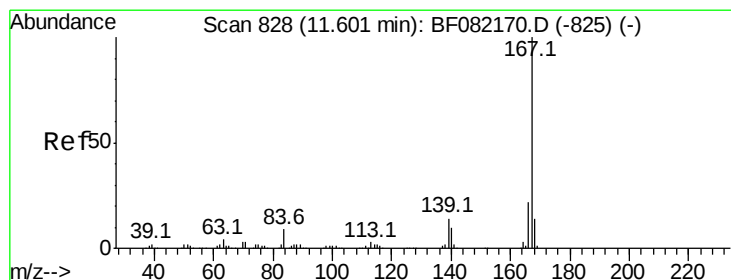
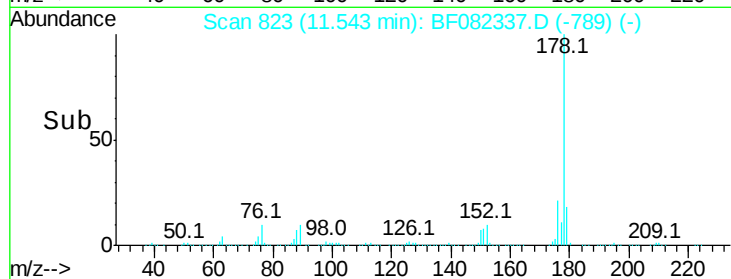
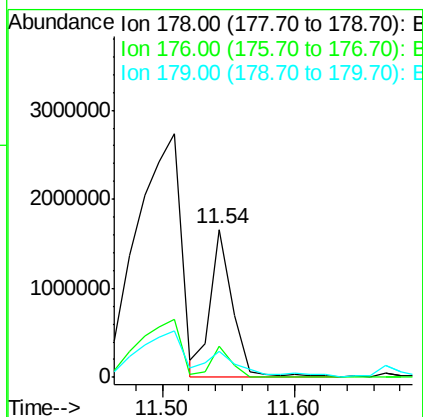
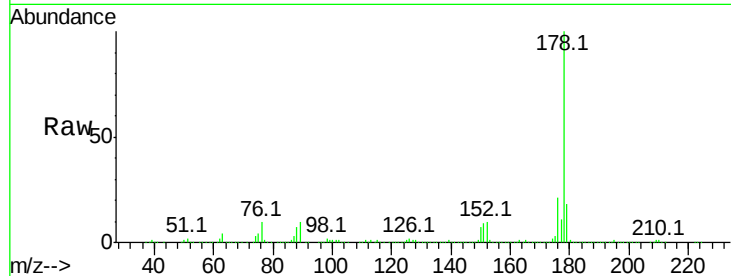
#71
 Anthracene
 Concen: 185.32 ng m
 RT: 11.54 min Scan# 823
 Delta R.T. 0.09 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58

Tot Ion:178 Resp: 2023838
 Ion Ratio Lower Upper
 178 100
 176 20.8 15.4 23.0
 179 17.9 12.5 18.7

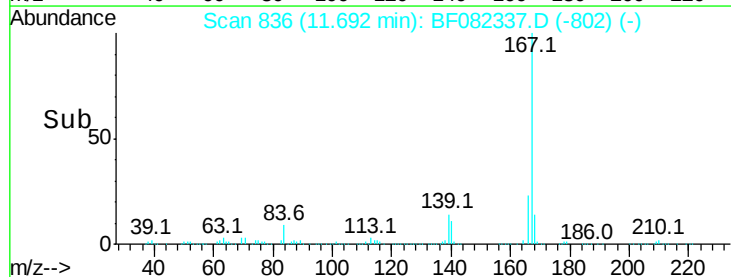
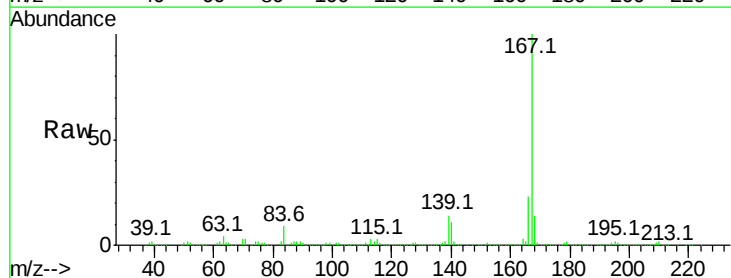
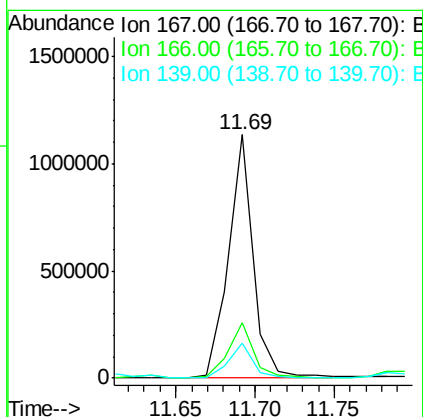
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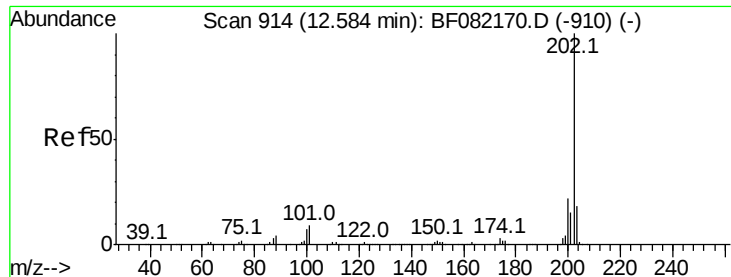
MMdadoda
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#72
 Carbazole
 Concen: 125.19 ng m
 RT: 11.69 min Scan# 836
 Delta R.T. 0.09 min
 Lab File: BF082337.D
 Acq: 16 Oct 2015 20:41

Tgt Ion:167 Resp: 1247157
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.3 25.9
 139 14.2 11.2 16.8





#74

Fluoranthene

Concen: 523.02 ng m

RT: 12.71 min Scan# 925

Delta R.T. 0.13 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58

Tot Ion:202 Resp: 5953325

Ion Ratio Lower Upper

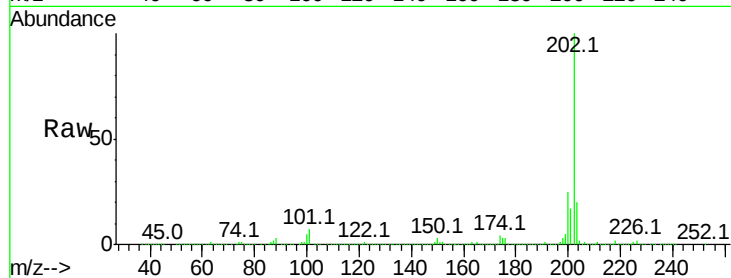
202 100

101 7.0 0.0 29.3

203 20.3 0.0 37.8

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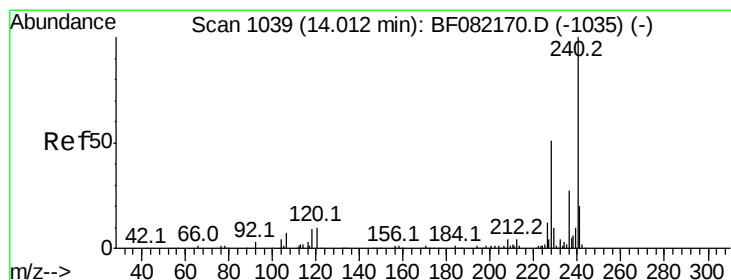
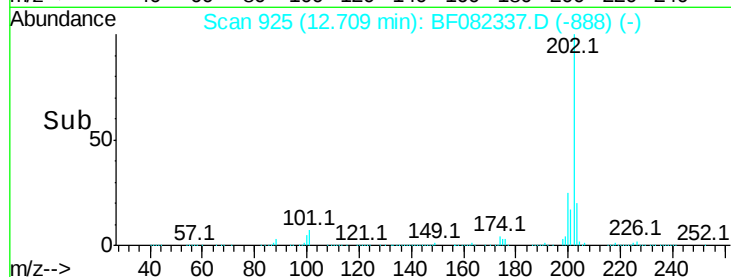
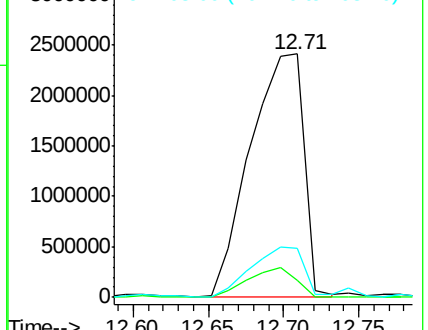
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Abundance Ion 202.00 (201.70 to 202.70): E

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 m

RT: 14.18 min Scan# 1054

Delta R.T. 0.17 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Tgt Ion:240 Resp: 201193

Ion Ratio Lower Upper

240 100

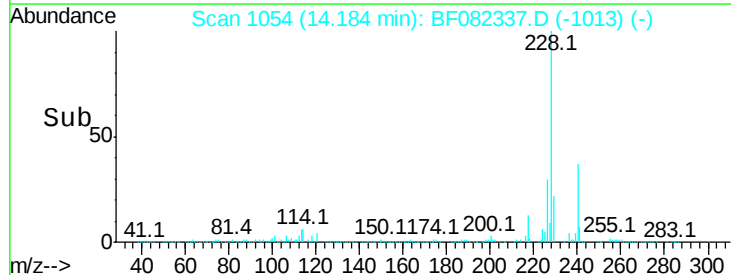
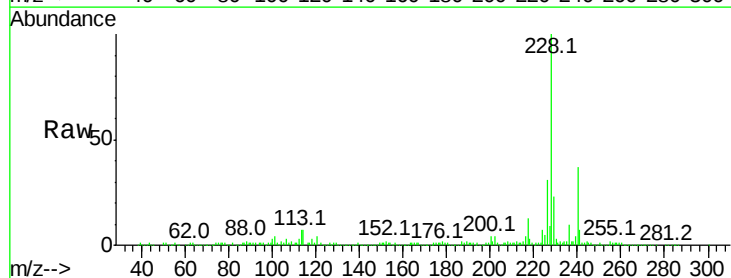
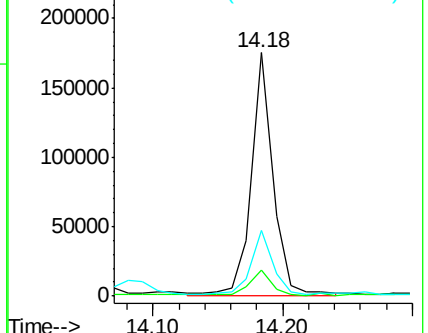
120 10.8 8.1 12.1

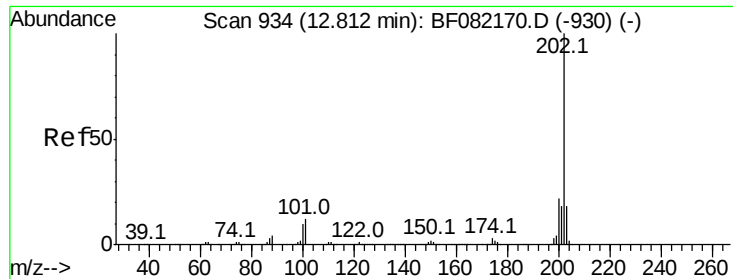
236 27.0 21.3 31.9

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: 335.90 ng/mL

RT: 12.93 min Scan# 944

Delta R.T. 0.11 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58

Tot Ion: 202 Resp: 4010573

Ion Ratio Lower Upper

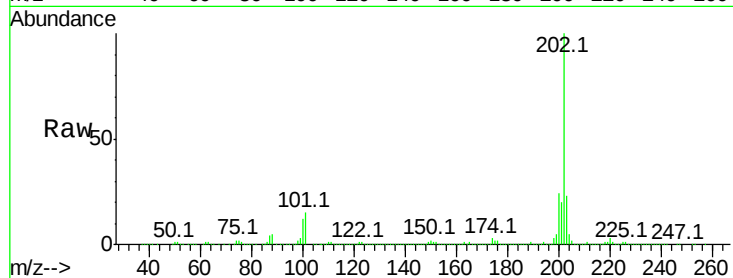
202 100

200 24.4 17.9 26.9

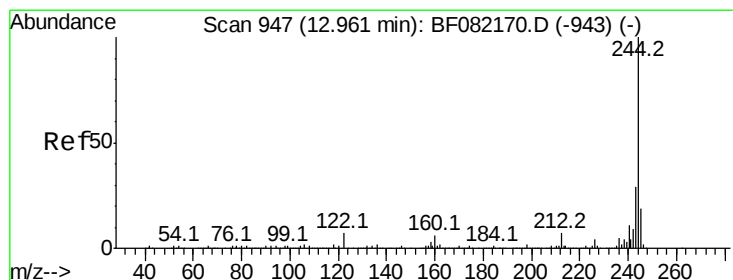
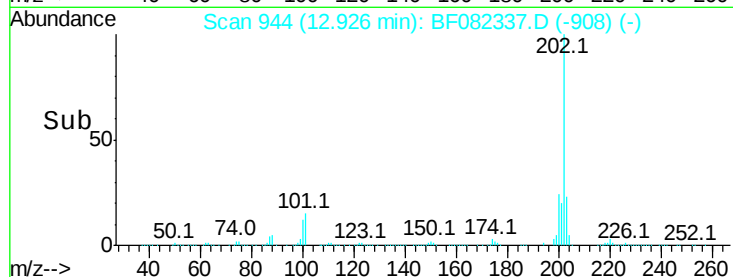
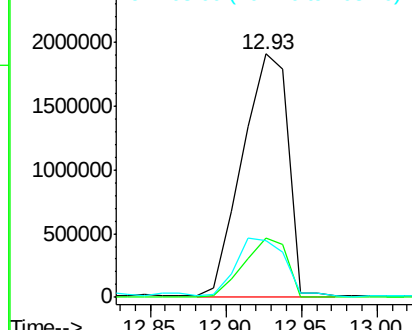
203 23.3 14.5 21.7#

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 7.08 ng/mL

RT: 13.04 min Scan# 954

Delta R.T. 0.08 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

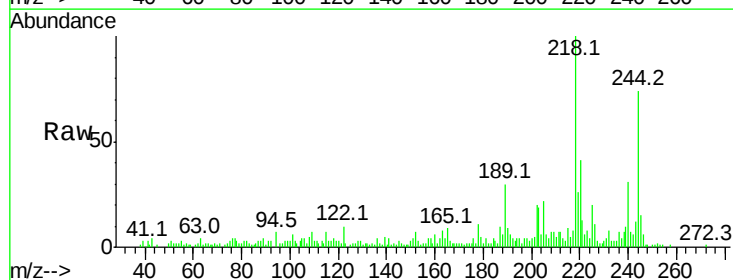
Tgt Ion: 244 Resp: 53751

Ion Ratio Lower Upper

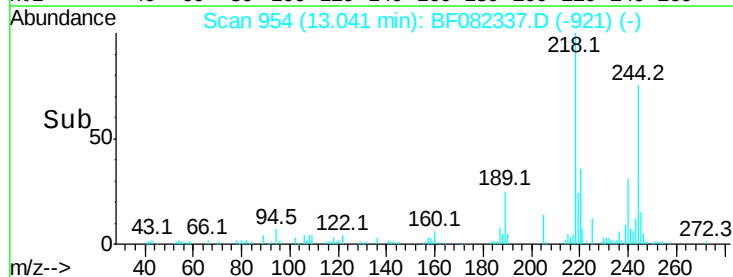
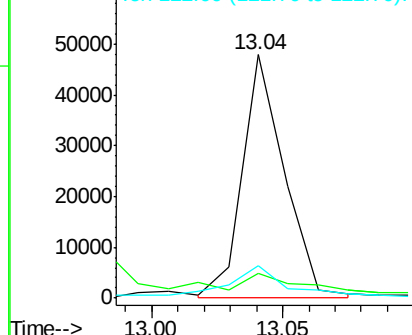
244 100

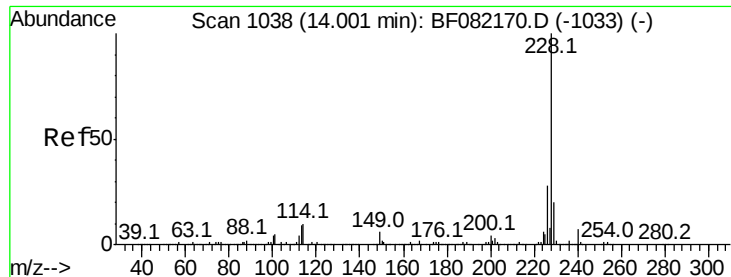
212 10.0 5.8 8.6#

122 13.5 5.9 8.9#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





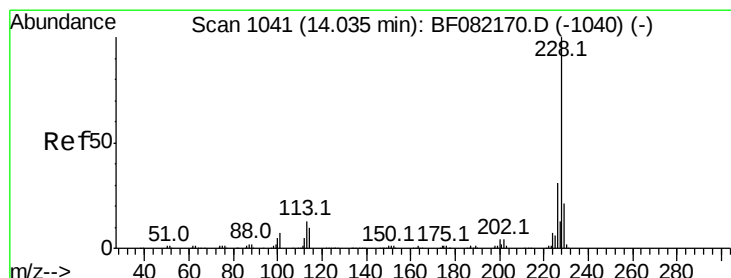
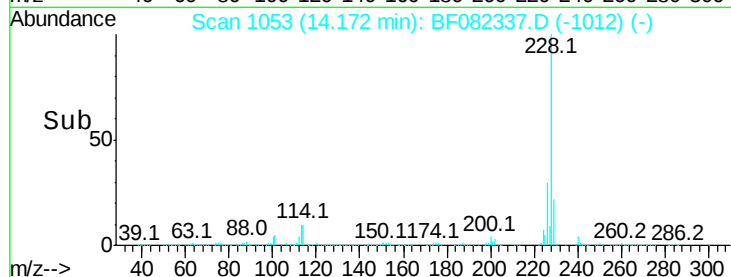
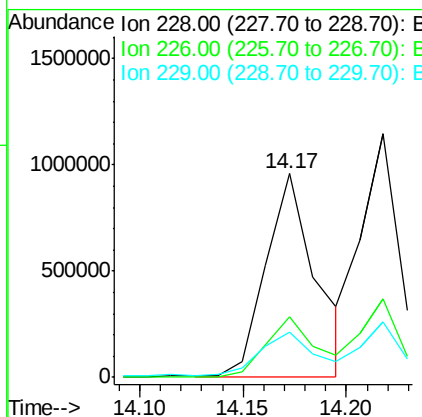
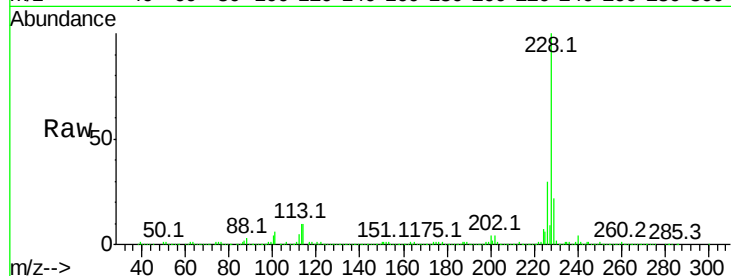
#80
Benzo(a)anthracene
Concen: 155.29 ng m
RT: 14.17 min Scan# 1053
Delta R.T. 0.17 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.3	33.5
229	22.3	16.2	24.2

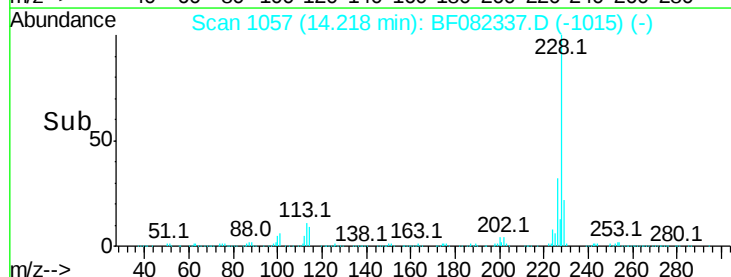
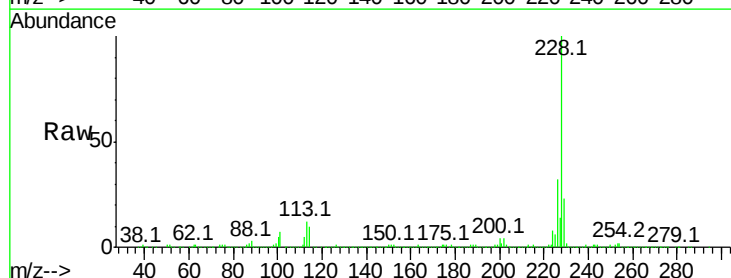
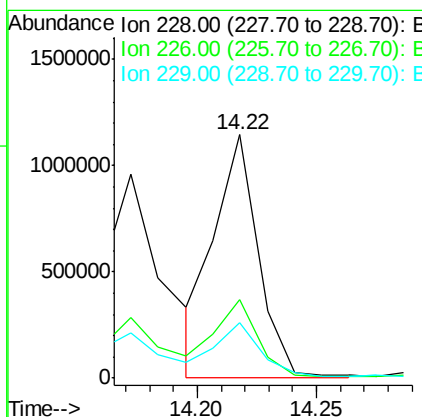
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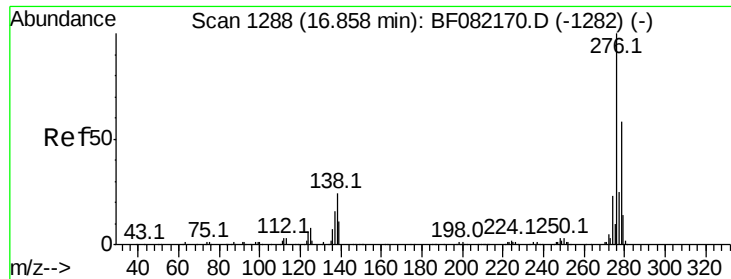
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#82
Chrysene
Concen: 134.47 ng m
RT: 14.22 min Scan# 1057
Delta R.T. 0.18 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.4	36.6
229	22.6	16.3	24.5





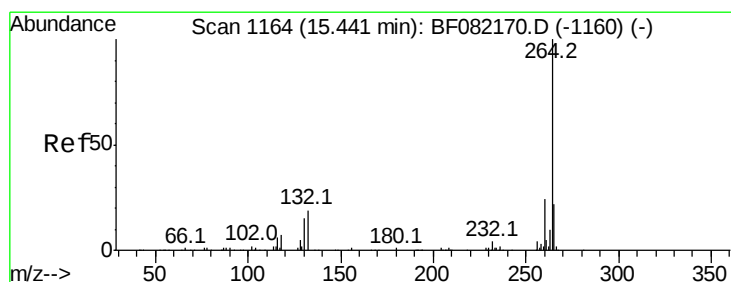
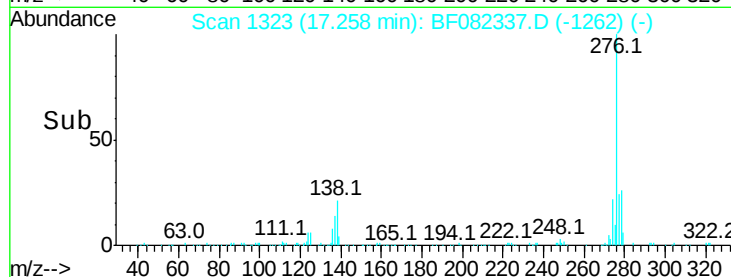
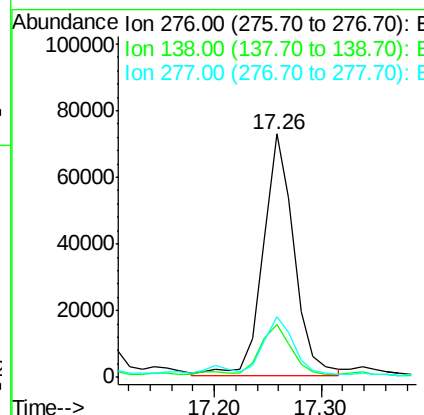
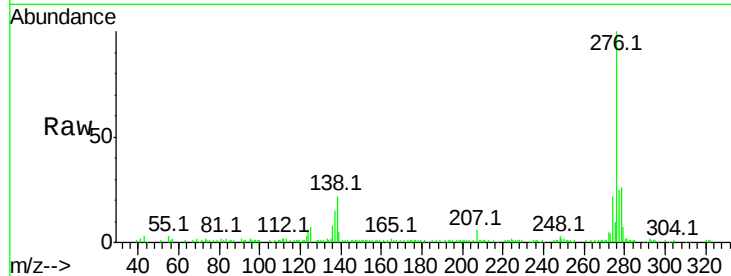
#85
Indeno(1,2,3-cd)pyrene
Concen: 16.78 ng m
RT: 17.26 min Scan# 1323
Delta R.T. 0.40 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
276	100		
138	14.8	19.7	29.5#
277	16.5	20.1	30.1#

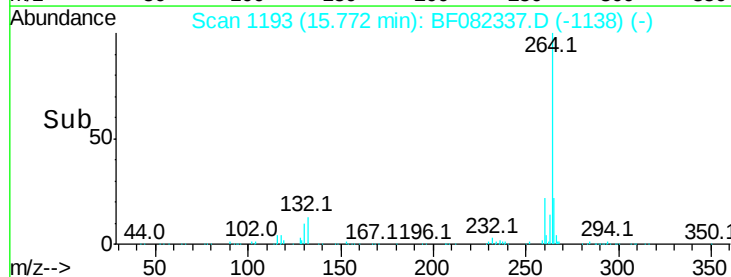
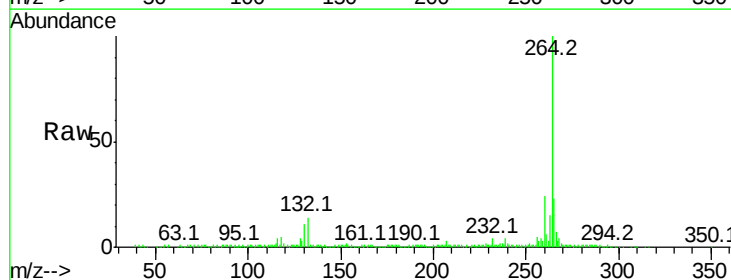
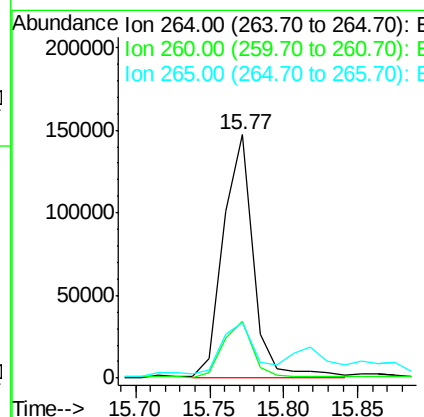
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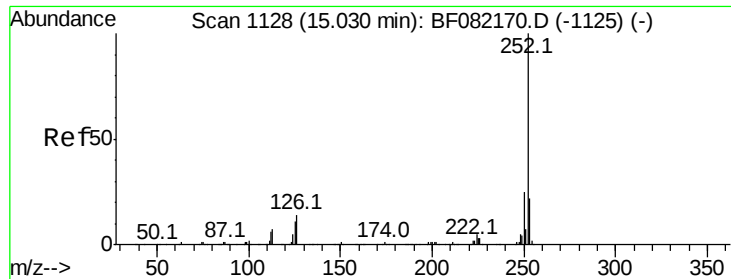
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#86
Perylene-d12
Concen: 20.00 ng m
RT: 15.77 min Scan# 1193
Delta R.T. 0.33 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	22.7	17.3	25.9





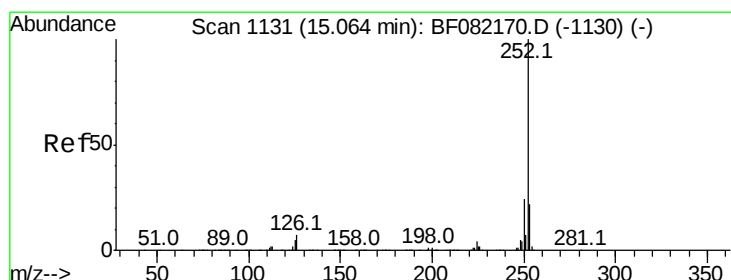
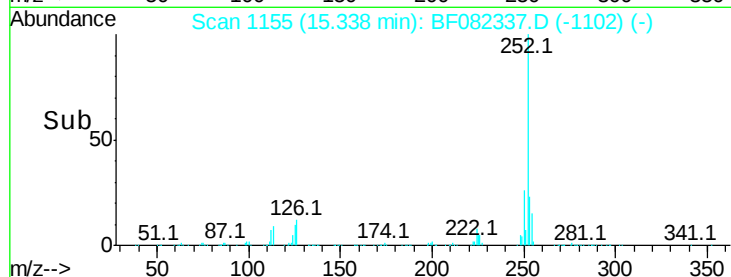
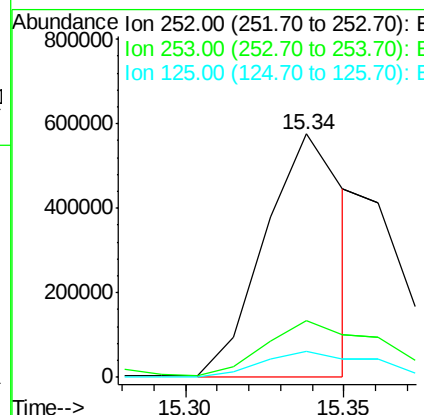
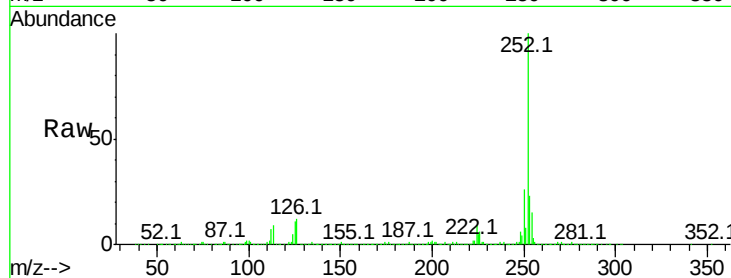
#87
Benzo(b)fluoranthene
Concen: 81.16 ng m
RT: 15.34 min Scan# 1155
Delta R.T. 0.31 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	10.5	8.6	12.8

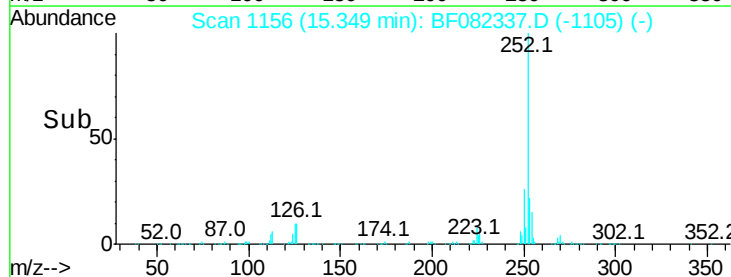
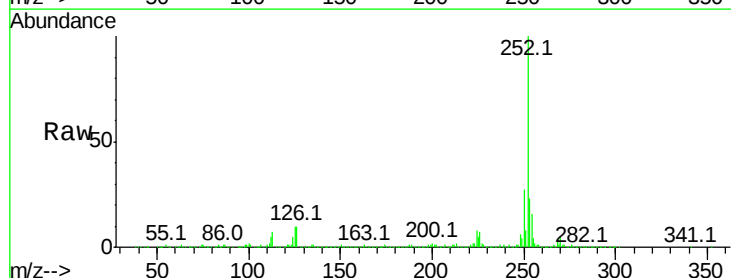
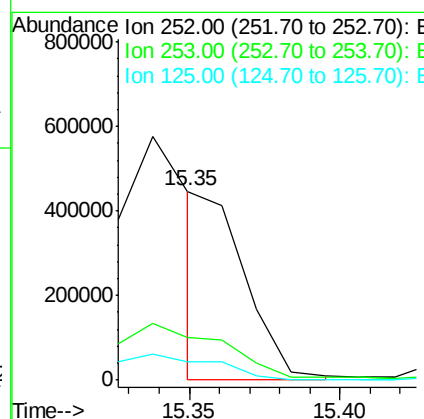
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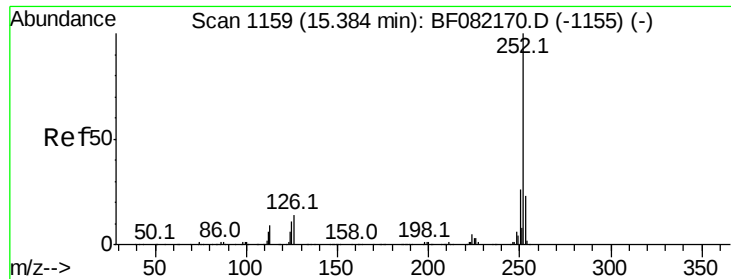
MMdadoda
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#88
Benzo(k)fluoranthene
Concen: 39.29 ng m
RT: 15.35 min Scan# 1156
Delta R.T. 0.29 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	9.7	6.7	10.1





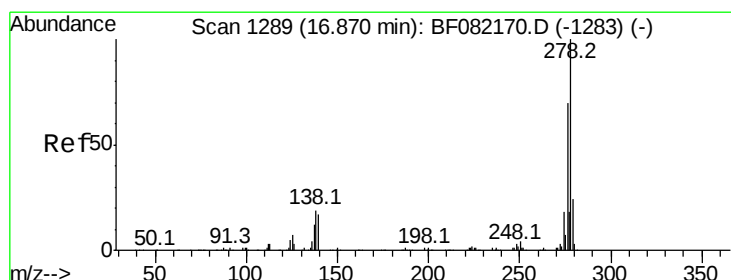
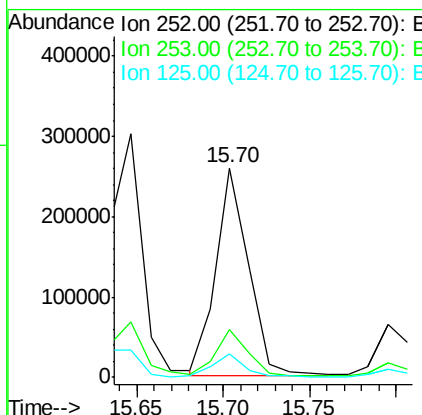
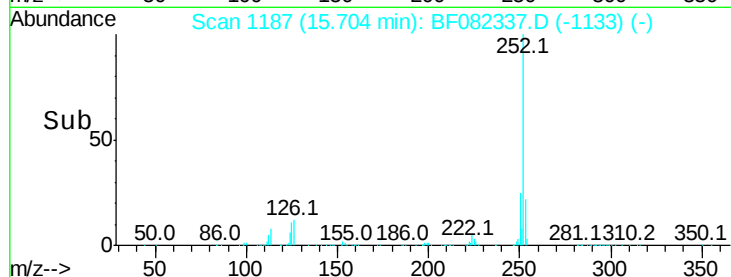
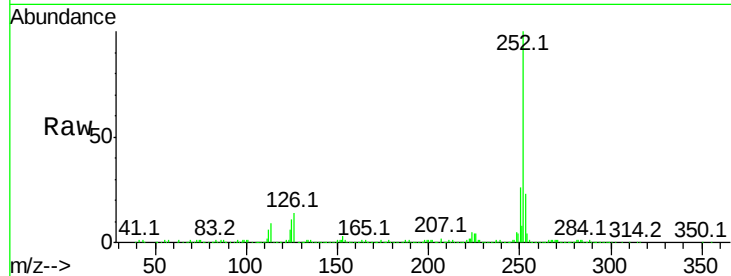
#89
Benzo(a)pyrene
Concen: 31.53 ng m
RT: 15.70 min Scan# 1187
Delta R.T. 0.32 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	11.0	8.9	13.3

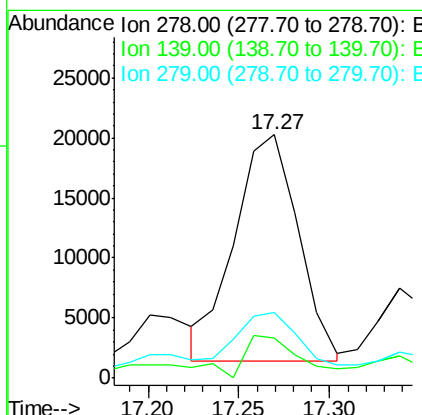
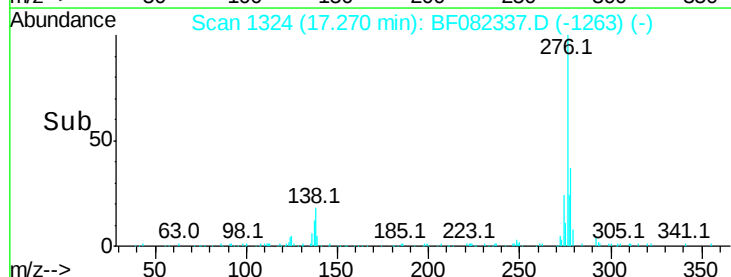
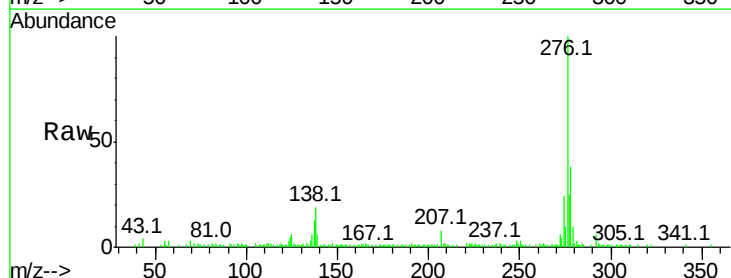
Manual Integrations
APPROVED

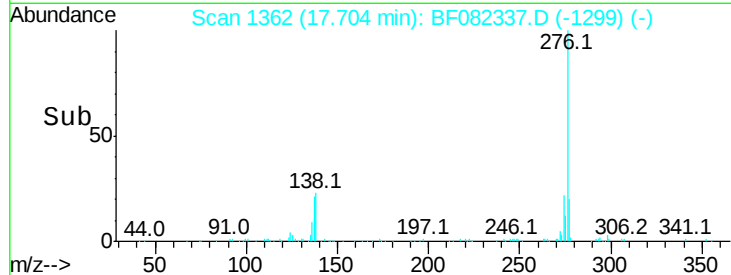
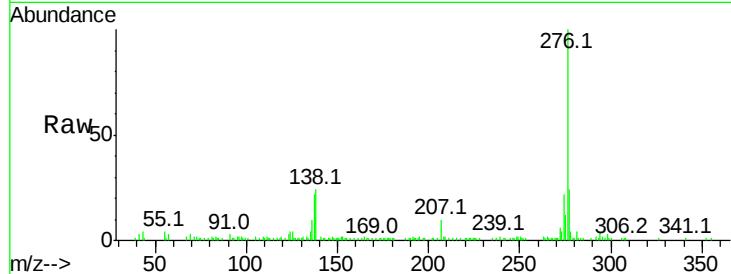
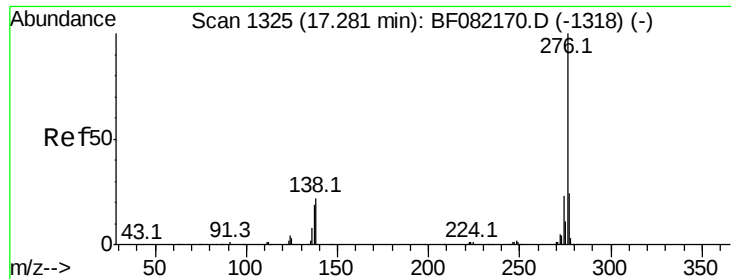
MMdadoda
10/19/2015 5:32:26 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.18 ng m
RT: 17.27 min Scan# 1324
Delta R.T. 0.40 min
Lab File: BF082337.D
Acq: 16 Oct 2015 20:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.7	13.3	19.9
279	27.1	18.9	28.3





#91

Benzo(a,h,i)perylene

Concen: 11.56 ng m

RT: 17.70 min Scan# 1362

Delta R.T. 0.42 min

Lab File: BF082337.D

Acq: 16 Oct 2015 20:41

Tot Ion:	276	Resp:	100077
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.8	28.2
138	24.0	17.4	26.2

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:26 PM

