

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095458.D
 Acq On : 26 May 2017 13:41
 Operator : SJ/MA
 Sample : I3240-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC6(0-6.5)

Manual Integrations
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 5/30/2017 1:35:59 PM

Quant Time: May 26 17:01:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	98798	20.00	ng	0.00
21) Naphthalene-d8	9.77	136	396720	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	177595	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	270517	20.00	ng	0.00
75) Chrysene-d12	18.68	240	199254	20.00	ng	0.00
86) Perylene-d12	20.35	264	174512	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	617727	104.24	ng	0.00
7) Phenol-d6	7.29	99	735019	103.38	ng	0.00
23) Nitrobenzene-d5	8.64	82	430592	68.44	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	132293	90.96	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	767727	62.22	ng	0.00
78) Terphenyl-d14	17.32	244	474850	52.49	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.80	128	52806	2.65	ng	98
49) Dimethylphthalate	12.24	163	120045	8.23	ng	99
51) Acenaphthene	12.65	154	134032	11.87	ng	98
54) Dibenzofuran	12.94	168	129727	8.30	ng	96
57) Fluorene	13.49	166	165879	12.20	ng	95
70) Phenanthrene	15.04	178	1686235	108.49	ng	99
71) Anthracene	15.12	178	510240	32.14	ng	96
72) Carbazole	15.41	167	173074	11.98	ng	95
74) Fluoranthene	16.79	202	1790996	112.33	ng	98
77) Pyrene	17.09	202	1438868	96.56	ng	97
80) Benzo(a)anthracene	18.67	228	783666	67.58	ng	97
82) Chrysene	18.71	228	653285	58.26	ng	97
85) Indeno(1,2,3-cd)pyrene	21.69	276	260656	28.62	ng	96
87) Benzo(b)fluoranthene	19.95	252	768003m	71.22	ng	
88) Benzo(k)fluoranthene	19.97	252	289519m	27.83	ng	
89) Benzo(a)pyrene	20.30	252	534349	53.70	ng	95
90) Dibenzo(a,h)anthracene	21.68	278	70983m	8.64	ng	
91) Benzo(g,h,i)perylene	22.08	276	236484	29.32	ng	98

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

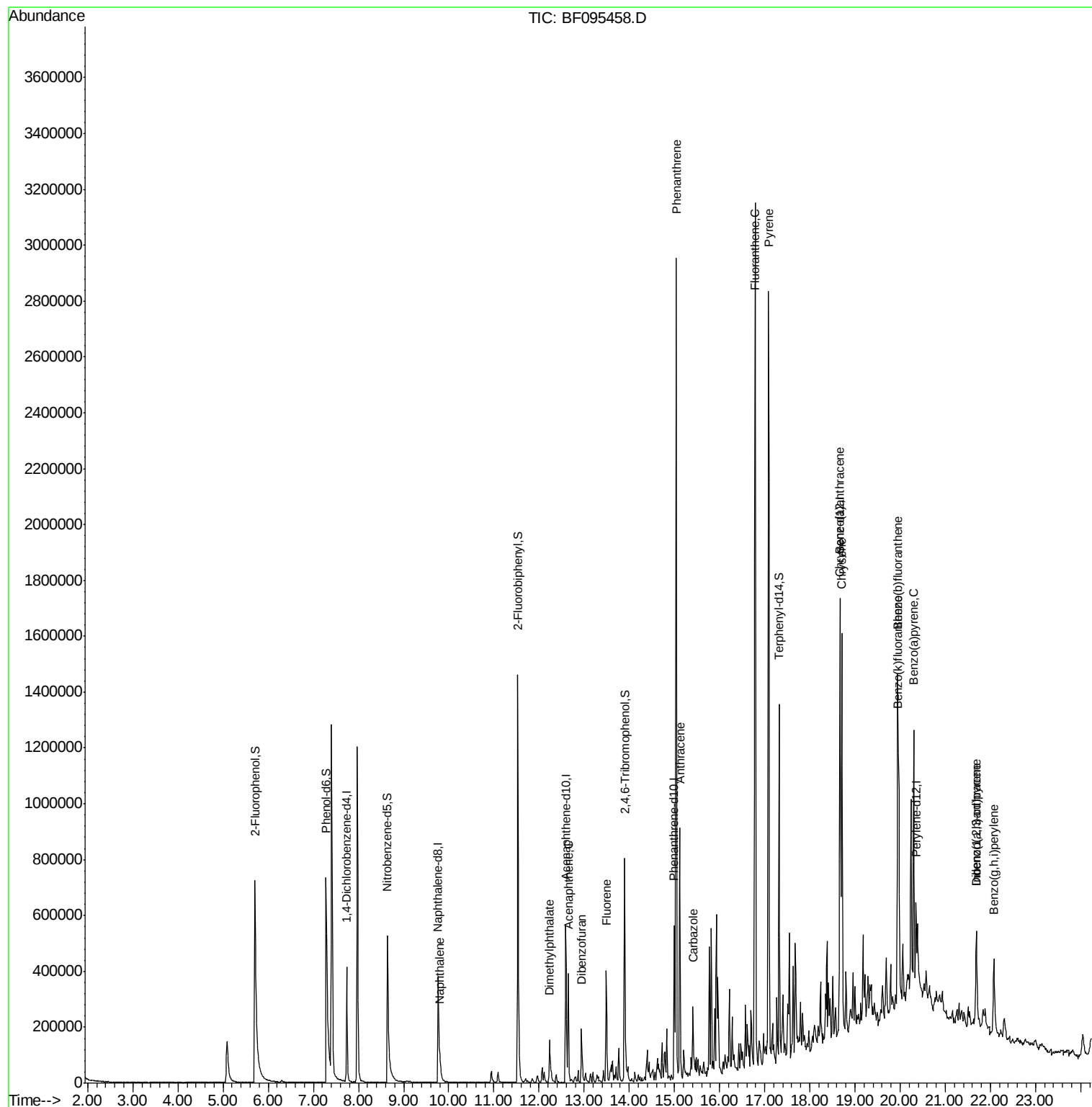
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095458.D
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#1

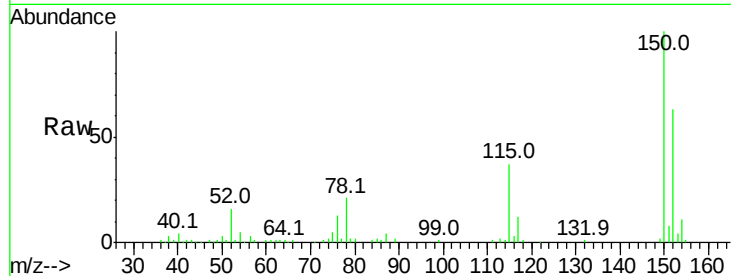
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.2	189.2
115	59.9	52.2	78.2

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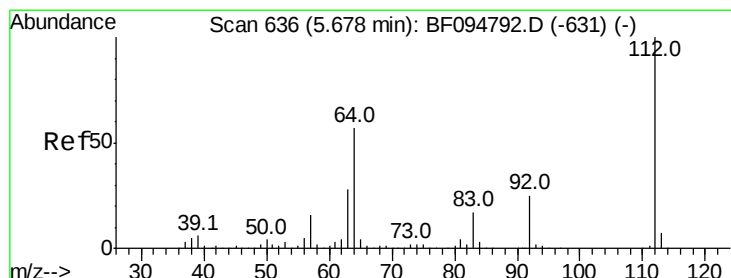
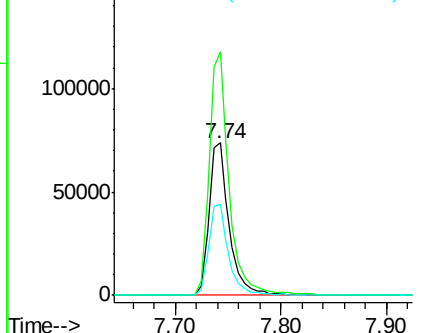
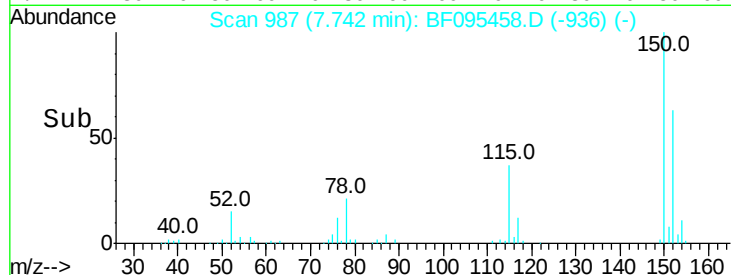


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

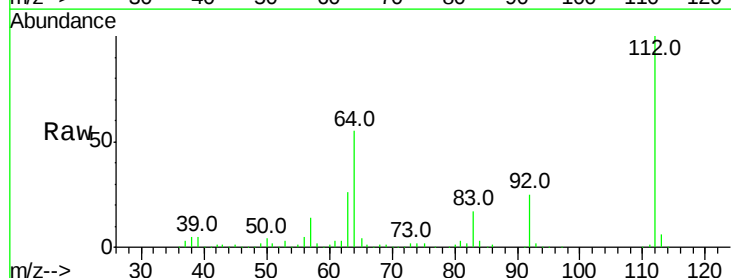
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 104.24 ng
RT: 5.71 min Scan# 641
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.1	46.0	69.0
63	25.6	23.4	35.0

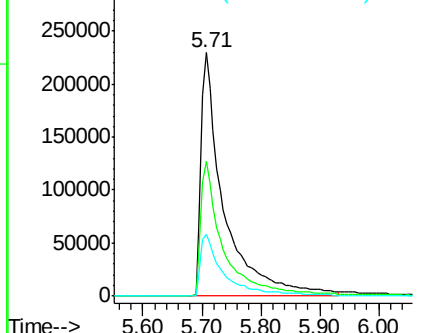
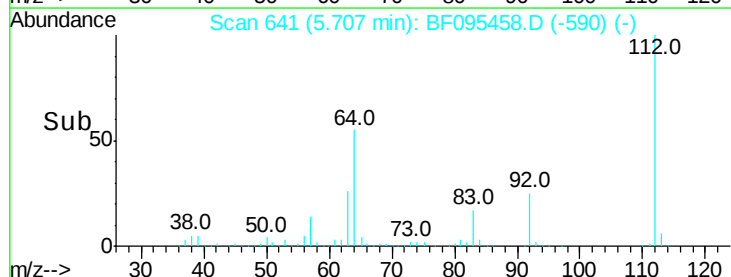


Abundance

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: 103.38 ng

RT: 7.29 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

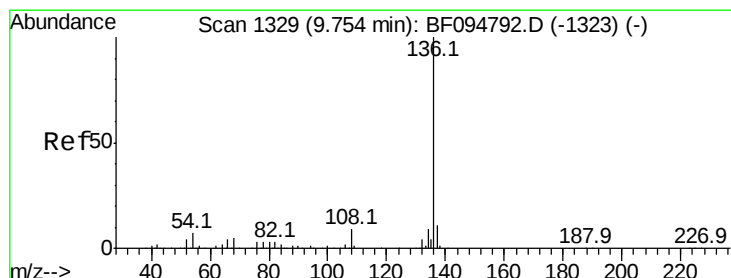
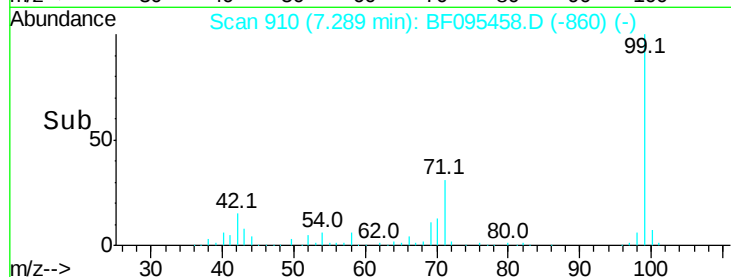
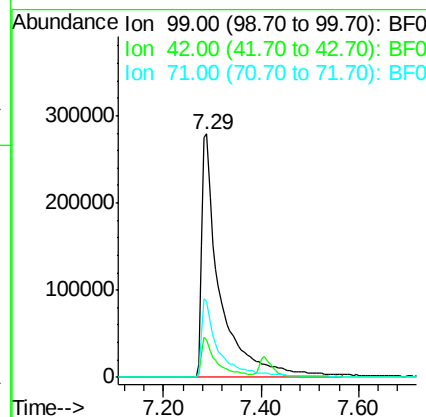
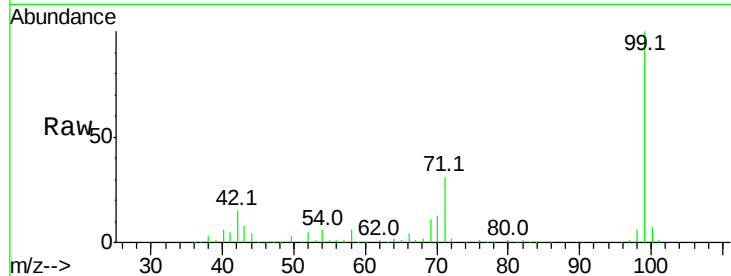
ClientSampled :

EP2-WC6(0-6.5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		735019		
42	15.3	13.5	20.3		
71	31.2	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

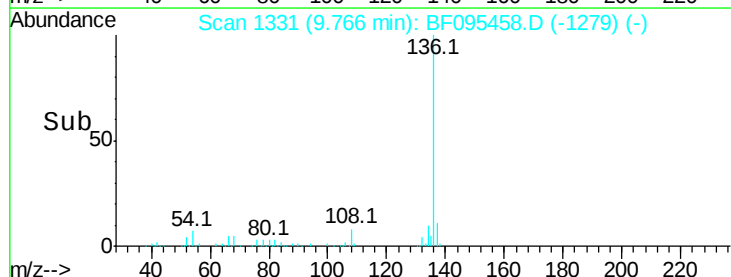
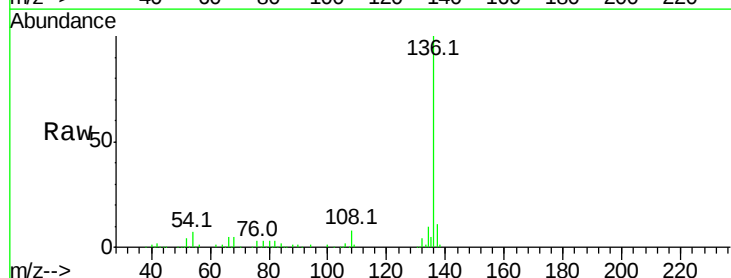
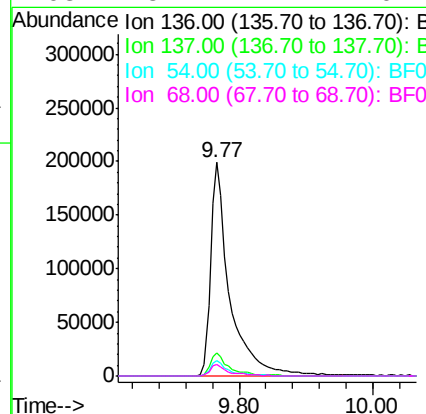
RT: 9.77 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		396720		
137	10.7	8.5	12.7		
54	7.0	4.9	7.3		
68	5.4	4.1	6.1		





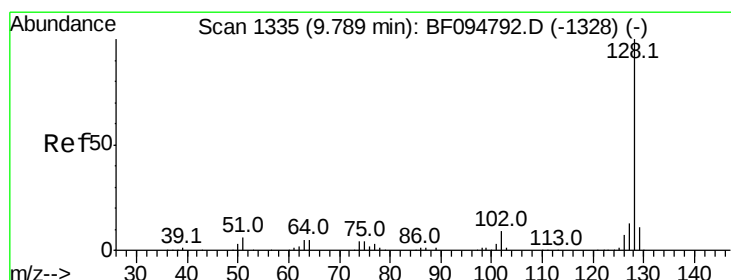
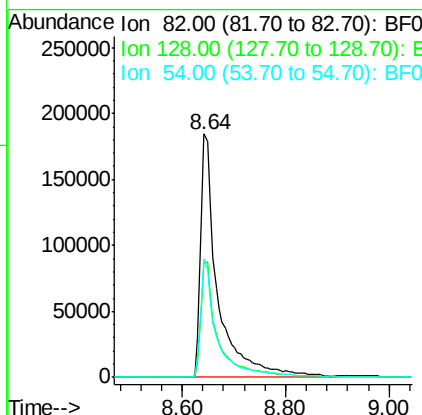
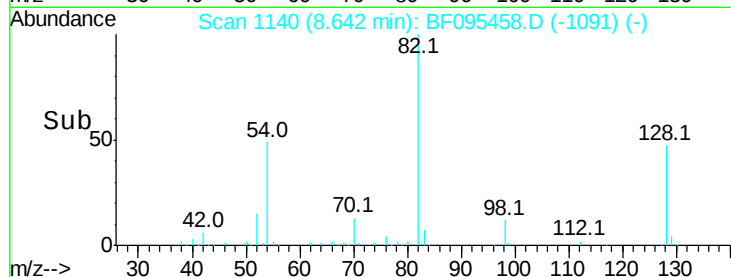
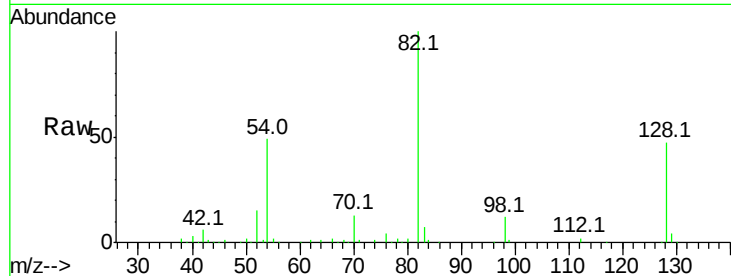
#23
Nitrobenzene-d5
Concen: 68.44 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.0	34.0	51.0
54	48.7	42.2	63.2

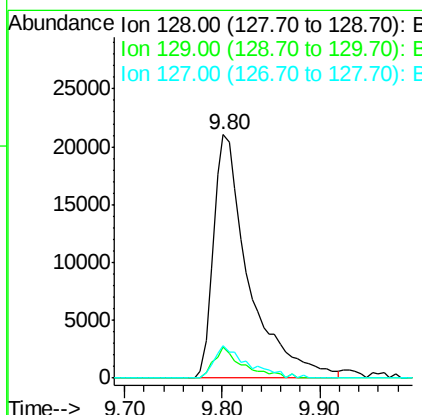
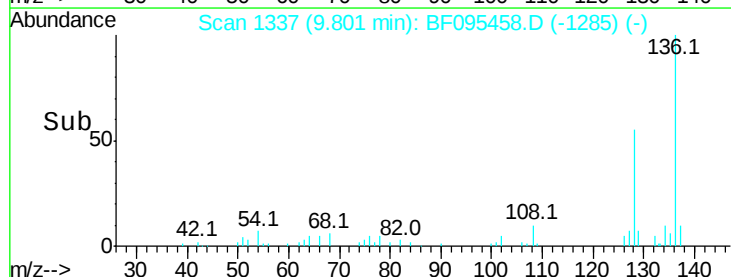
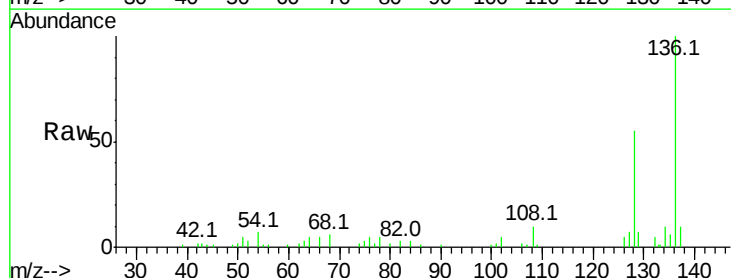
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#31
Naphthalene
Concen: 2.65 ng
RT: 9.80 min Scan# 1337
Delta R.T. 0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.0	13.6
127	13.5	10.8	16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.59 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

ClientSampleId :

EP2-WC6(0-6.5)

Tot Ion:164 Resp: 177595

Ion Ratio Lower Upper

164 100

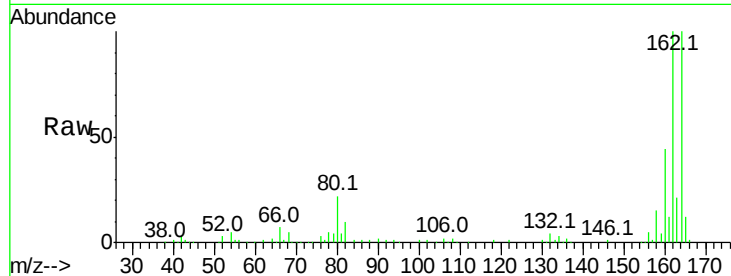
162 100.4 82.6 123.8

160 43.8 36.2 54.2

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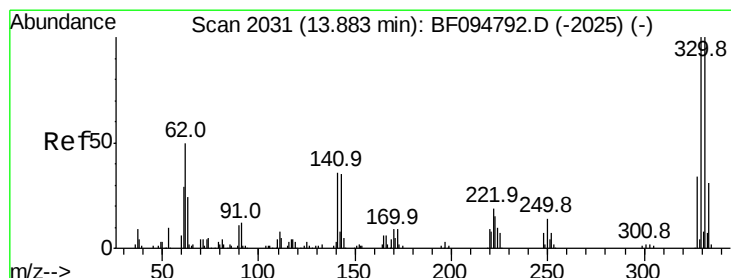
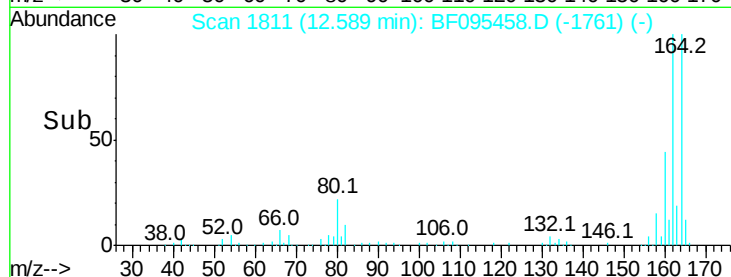
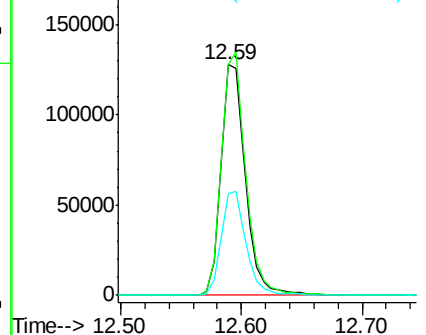
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 90.96 ng

RT: 13.89 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

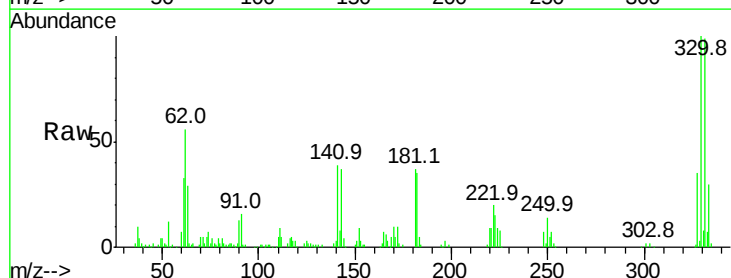
Tgt Ion:330 Resp: 132293

Ion Ratio Lower Upper

330 100

332 96.0 76.6 115.0

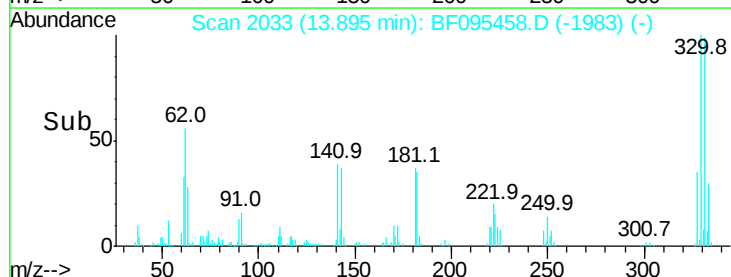
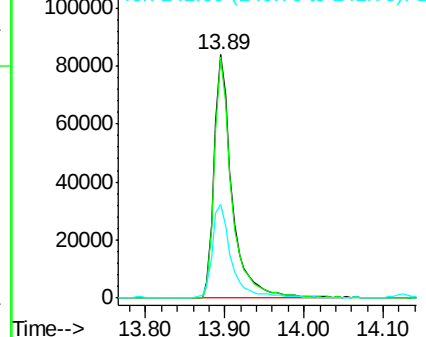
141 41.4 31.4 47.2

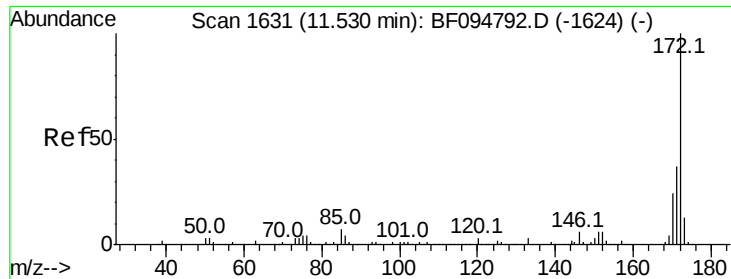


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 62.22 ng

RT: 11.53 min Scan# 1631

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

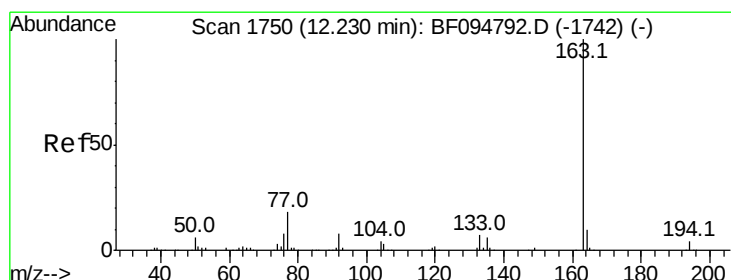
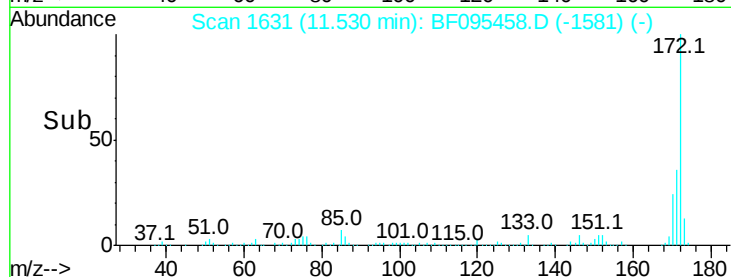
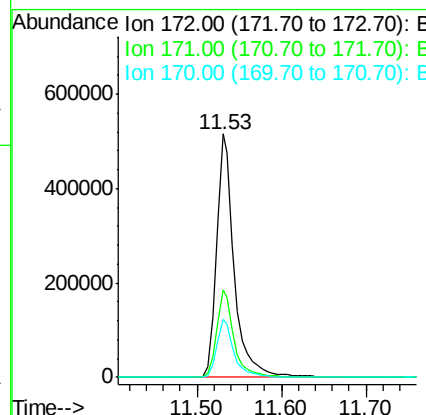
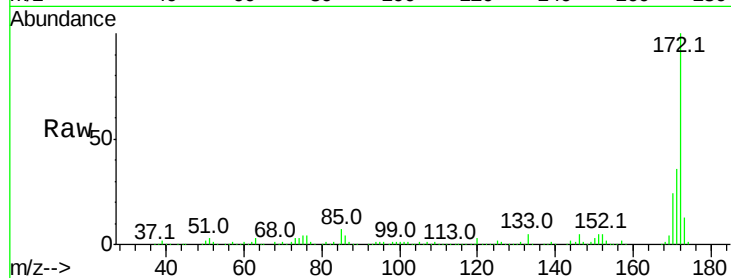
ClientSampleId :

EP2-WC6(0-6.5)

Tot Ion:	172	Resp:	767727
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.6	44.4
170	23.7	19.8	29.8

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#49

Dimethylphthalate

Concen: 8.23 ng

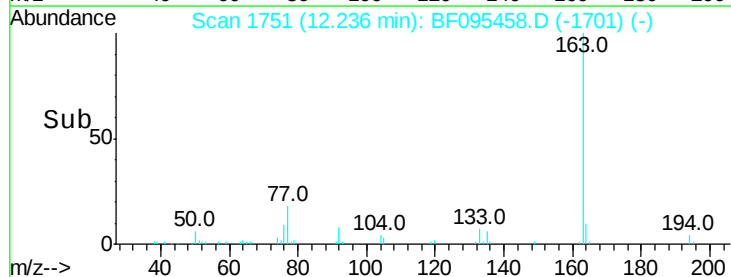
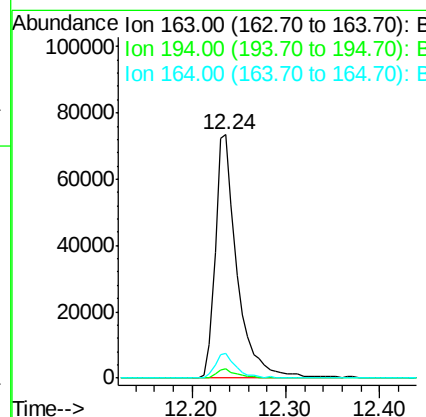
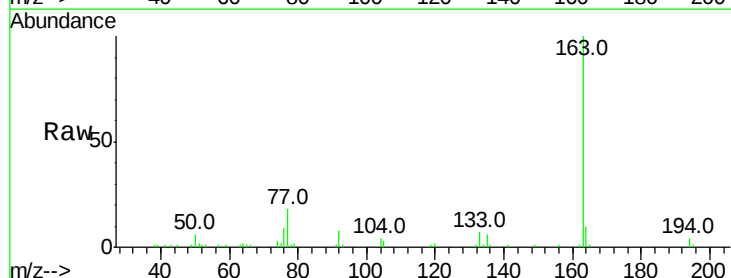
RT: 12.24 min Scan# 1751

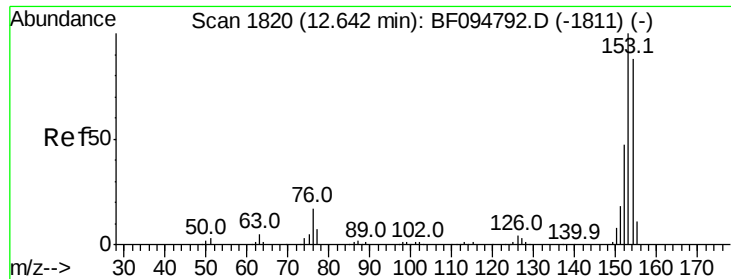
Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion:	163	Resp:	120045
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.6	4.0
164	10.1	8.4	12.6





#51

Acenaphthene

Concen: 11.87 ng

RT: 12.65 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

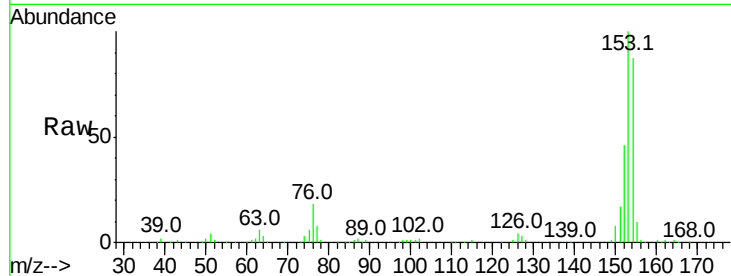
ClientSampleId :

EP2-WC6(0-6.5)

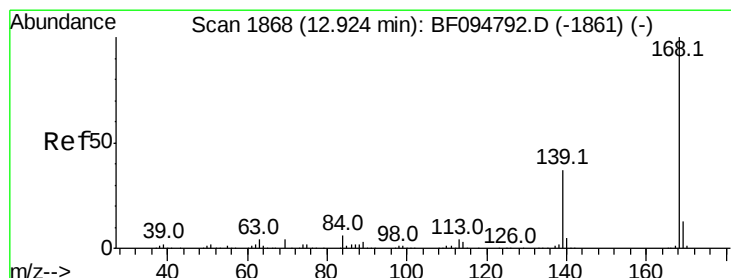
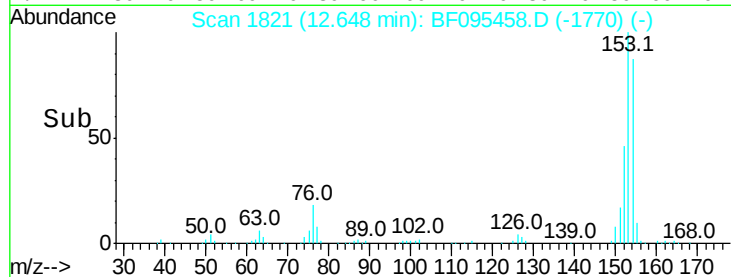
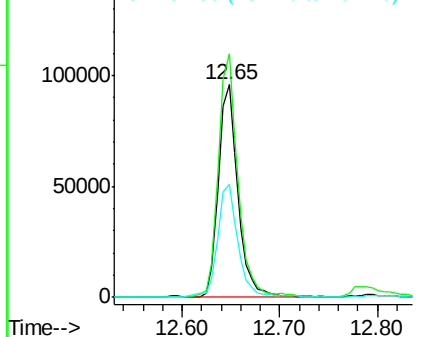
Tot Ion:	154	Resp:	134032
Ion Ratio	Lower	Upper	
154	100		
153	114.6	90.5	135.7
152	53.1	43.6	65.4

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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

Dibenzofuran

Concen: 8.30 ng

RT: 12.94 min Scan# 1871

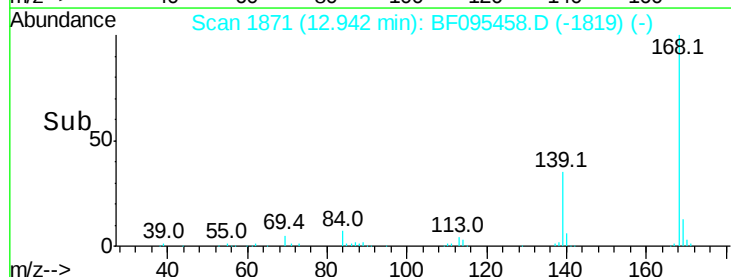
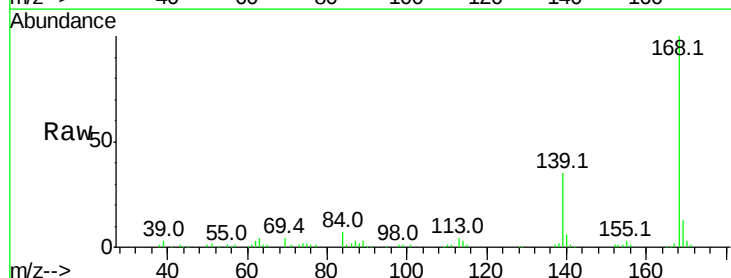
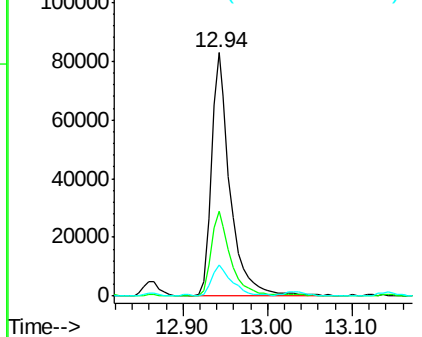
Delta R.T. 0.01 min

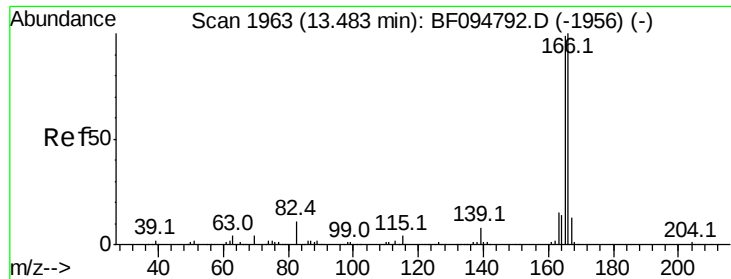
Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion:	168	Resp:	129727
Ion Ratio	Lower	Upper	
168	100		
139	34.9	30.6	45.8
169	13.1	10.8	16.2

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





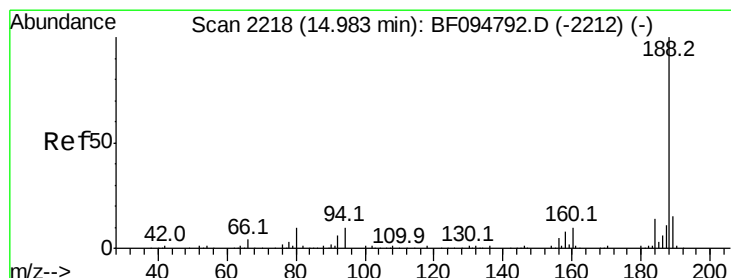
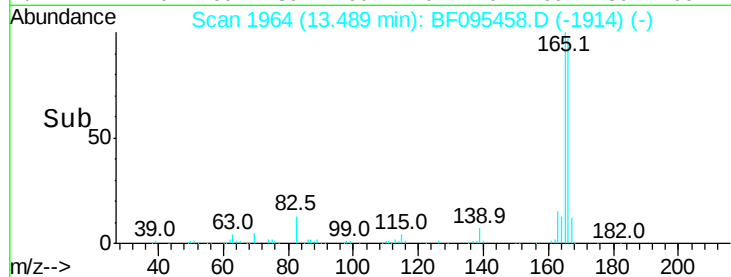
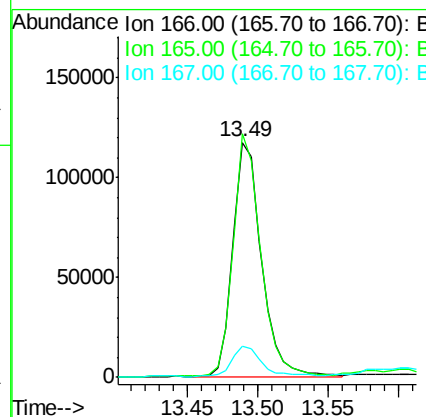
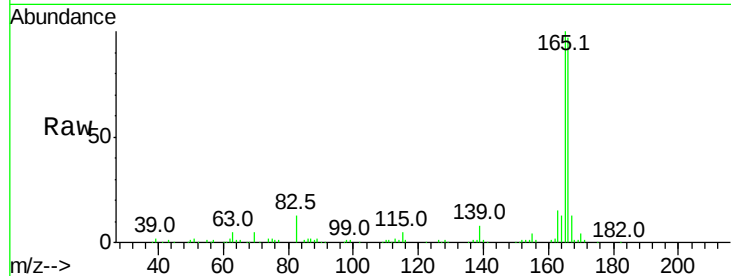
#57
Fluorene
 Concen: 12.20 ng
 RT: 13.49 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	103.5	78.8	118.2
167	13.0	10.6	16.0

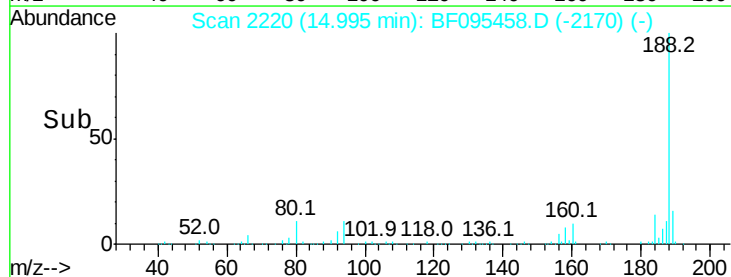
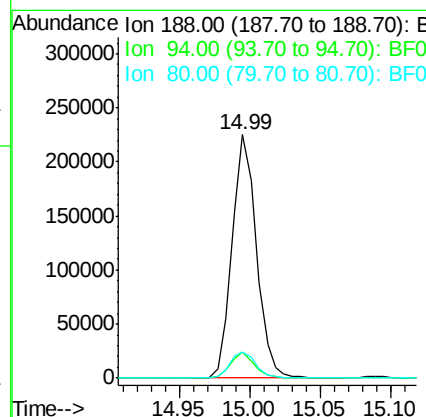
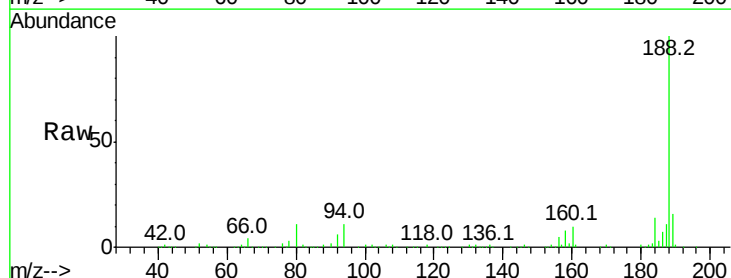
Manual Integrations
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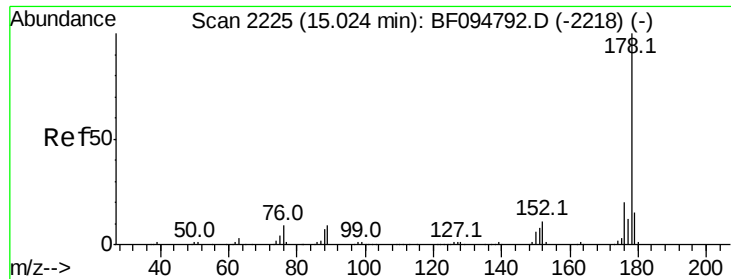
mohammad
 5/30/2017 1:35:59 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2220
 Delta R.T. -0.01 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	9.4	14.2
80	10.8	10.2	15.2





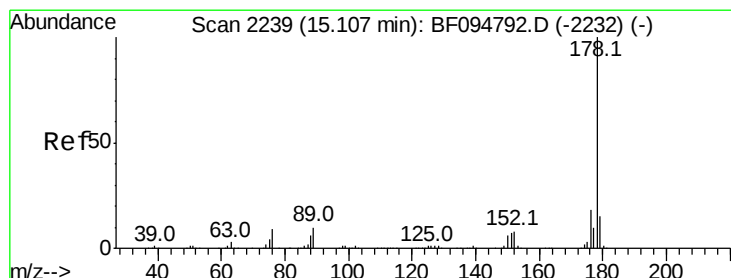
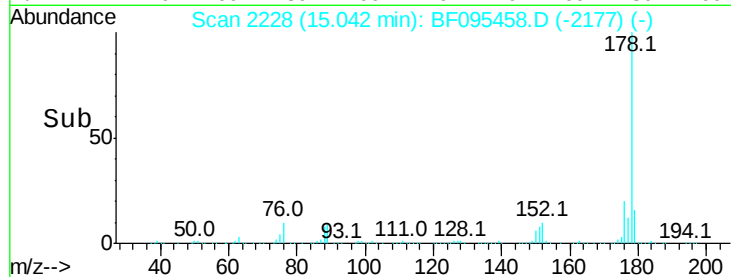
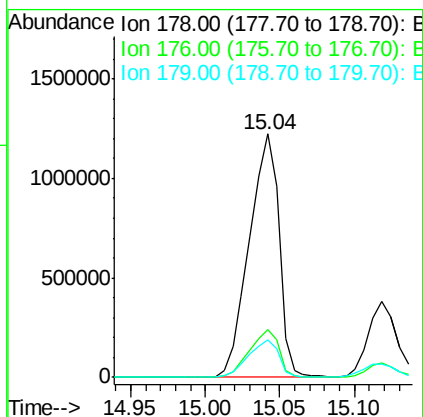
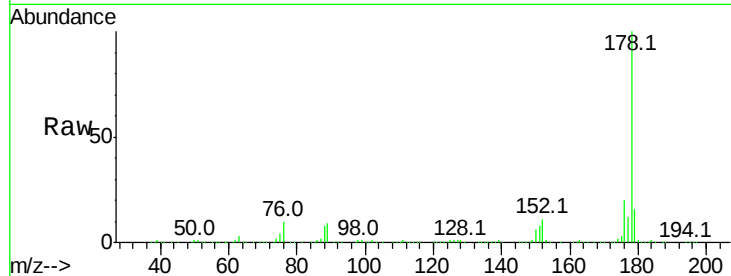
#70
Phenanthrene
Concen: 108.49 ng
RT: 15.04 min Scan# 2228
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion:178 Resp: 1686235
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.6 12.6 19.0

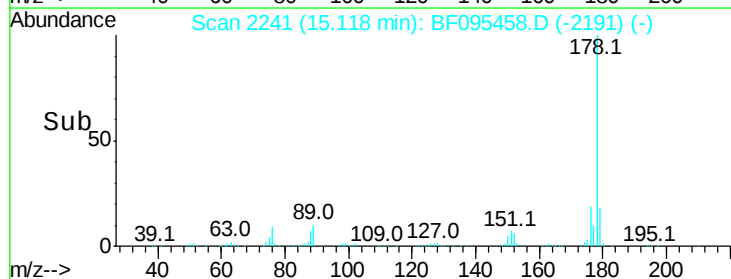
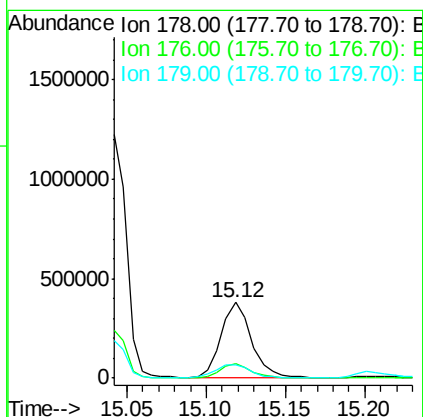
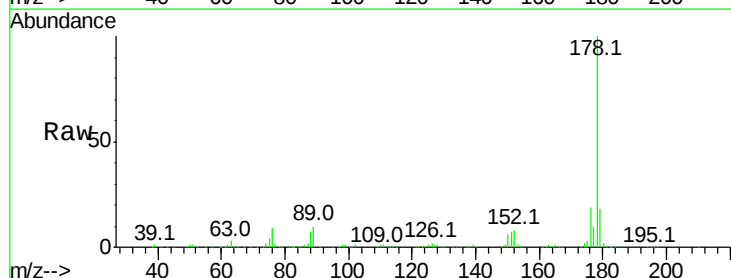
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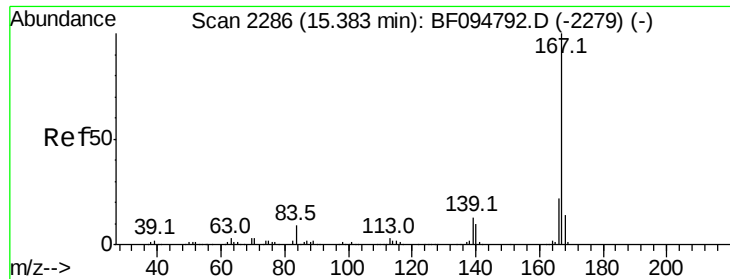
mohammad
5/30/2017 1:35:59 PM



#71
Anthracene
Concen: 32.14 ng
RT: 15.12 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion:178 Resp: 510240
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 18.1 12.7 19.1





#72

Carbazole

Concen: 11.98 ng

RT: 15.41 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

ClientSampleId :

EP2-WC6(0-6.5)

Tot Ion:167 Resp: 173074

Ion Ratio Lower Upper

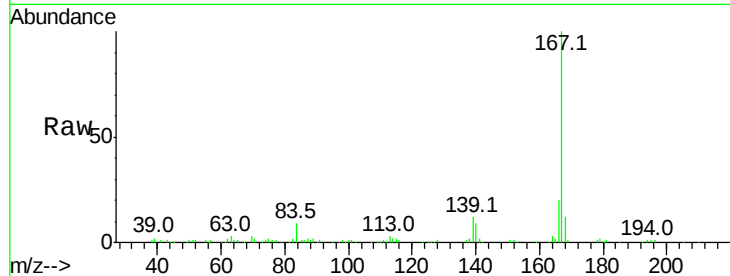
167 100

166 20.3 18.1 27.1

139 11.9 11.7 17.5

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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

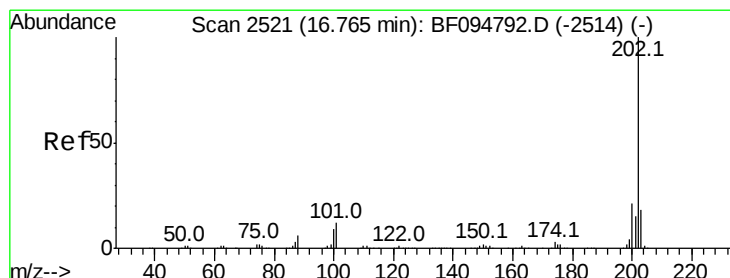
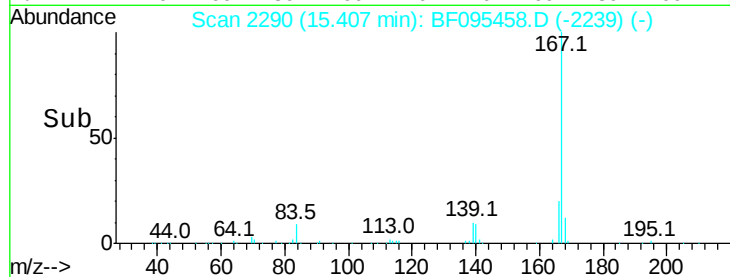
15.41

100000

50000

0

Time-->



#74

Fluoranthene

Concen: 112.33 ng

RT: 16.79 min Scan# 2525

Delta R.T. 0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

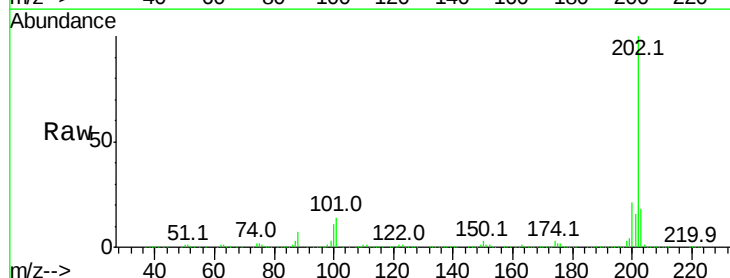
Tgt Ion:202 Resp: 1790996

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

203 17.7 0.0 38.1



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

16.79

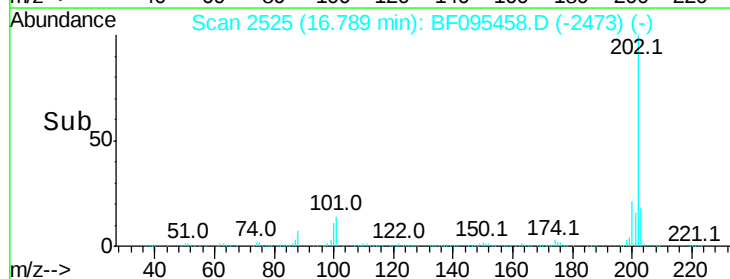
1500000

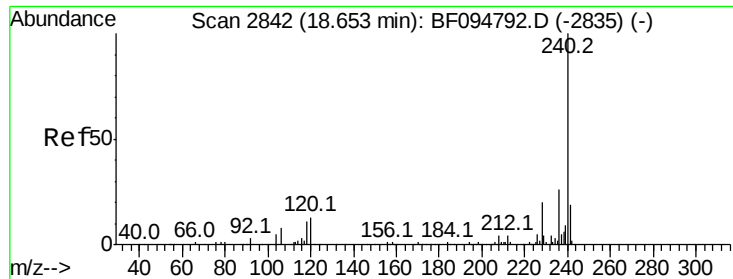
1000000

500000

0

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2846

Delta R.T. 0.00 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

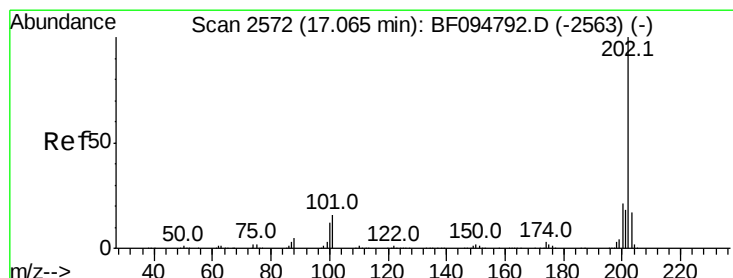
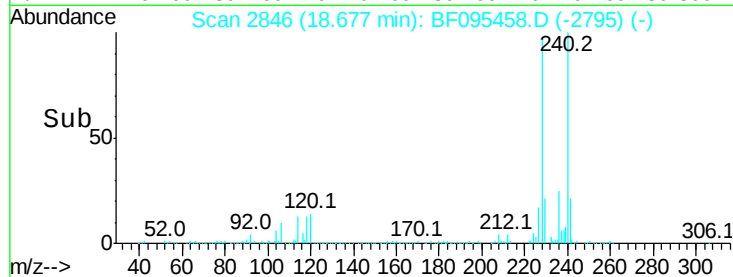
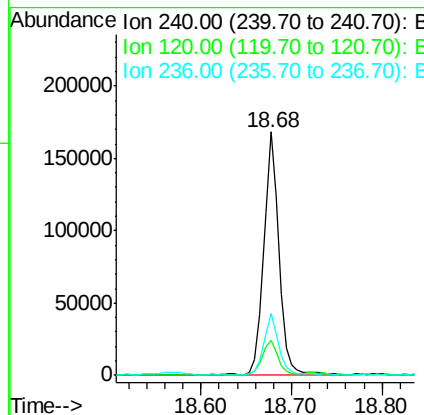
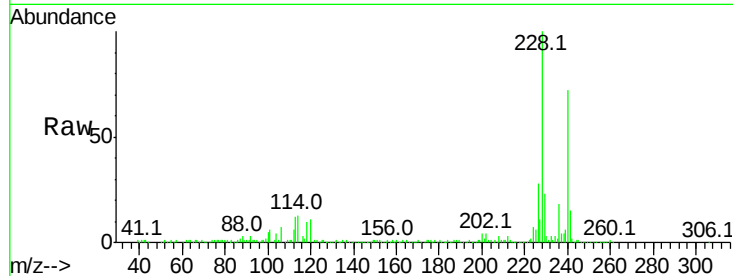
ClientSampleId :

EP2-WC6(0-6.5)

Tot Ion:	240	Resp:	199254
Ion Ratio	Lower	Upper	
240	100		
120	14.6	5.8	8.8#
236	25.6	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 96.56 ng

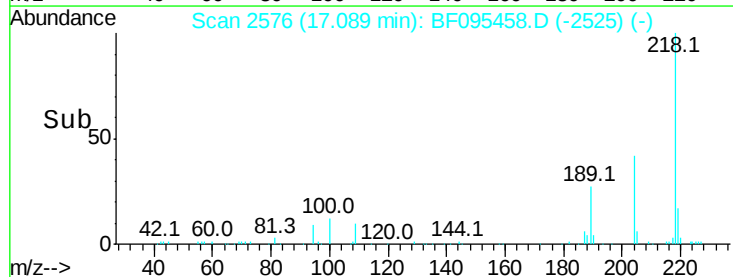
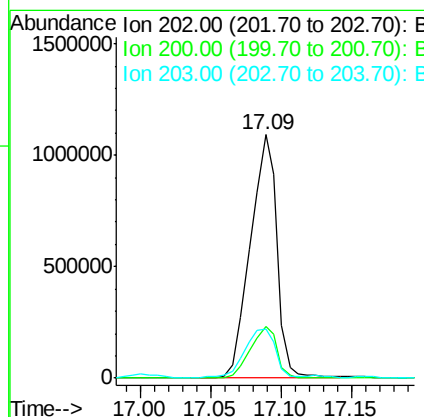
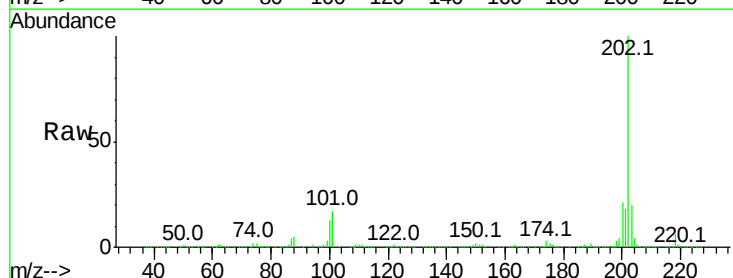
RT: 17.09 min Scan# 2576

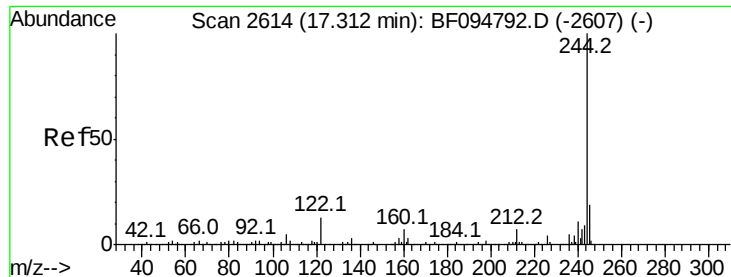
Delta R.T. 0.00 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion:	202	Resp:	1438868
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.6	26.4
203	19.9	14.4	21.6





#78

Terphenyl-d14

Concen: 52.49 ng

RT: 17.32 min Scan# 2615

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Instrument :

BNA_F

ClientSampleId :

EP2-WC6(0-6.5)

Tot Ion:244 Resp: 474850

Ion Ratio Lower Upper

244 100

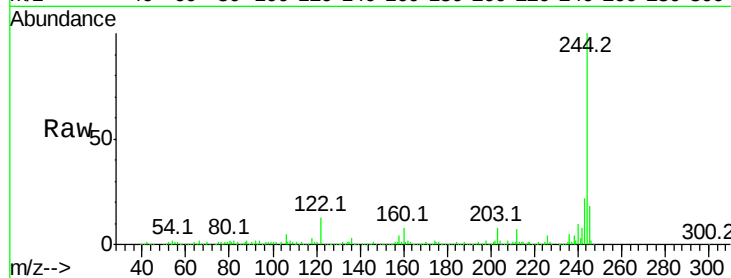
212 6.6 6.0 9.0

122 13.3 10.3 15.5

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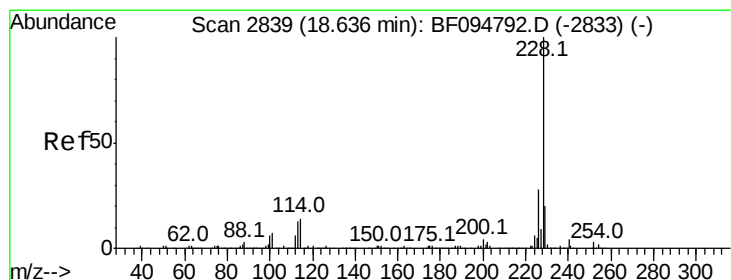
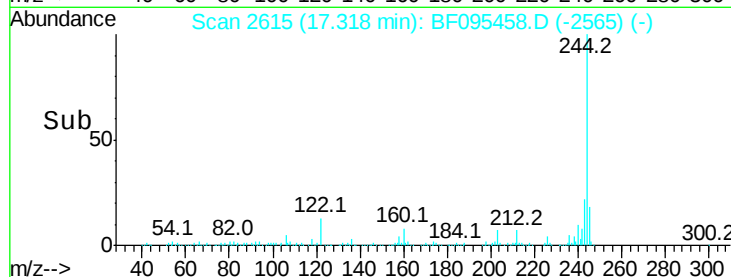
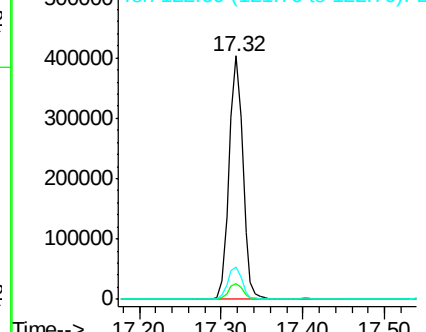
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 67.58 ng

RT: 18.67 min Scan# 2844

Delta R.T. 0.00 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

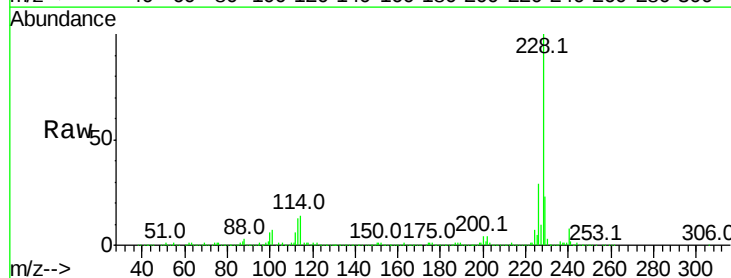
Tgt Ion:228 Resp: 783666

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

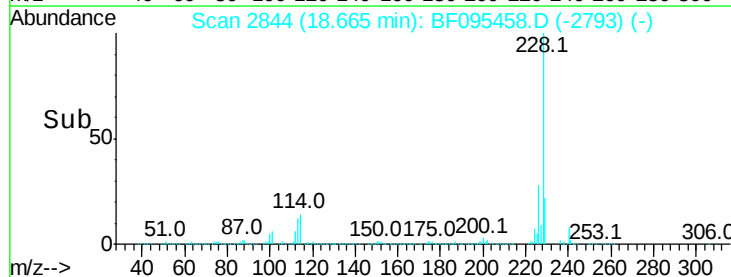
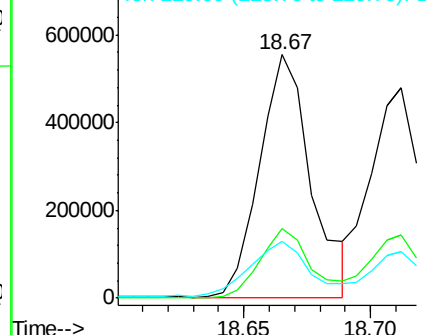
229 23.0 16.3 24.5

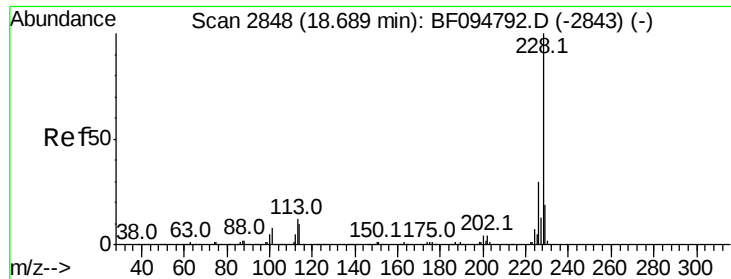


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





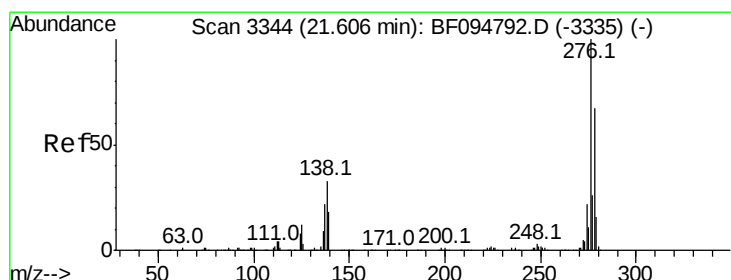
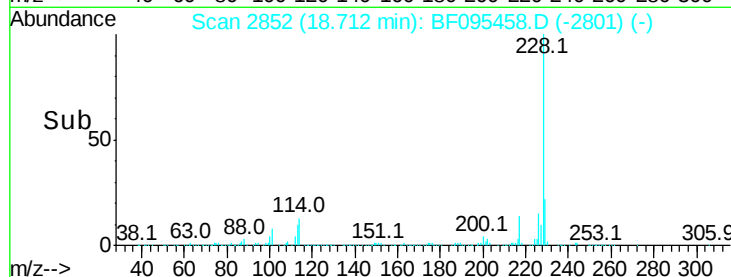
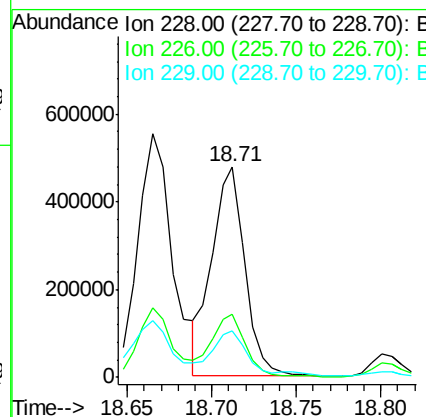
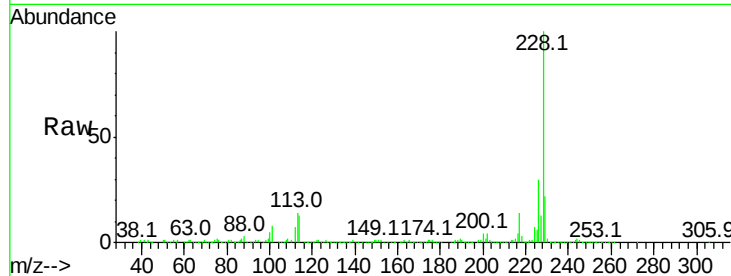
#82
Chrysene
Concen: 58.26 ng
RT: 18.71 min Scan# 2852
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	22.2	15.8	23.6

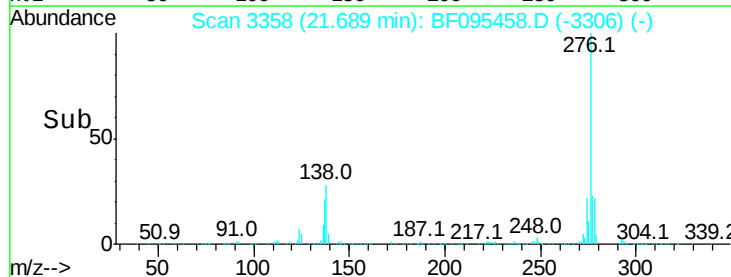
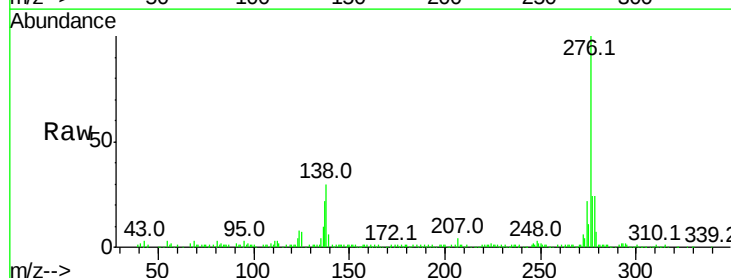
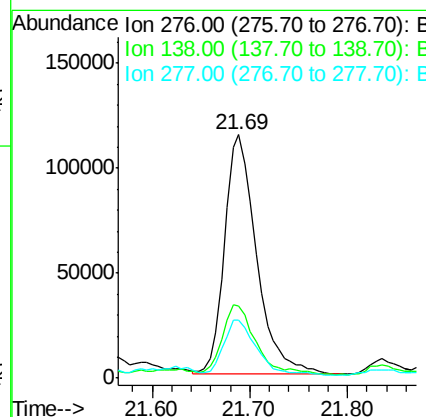
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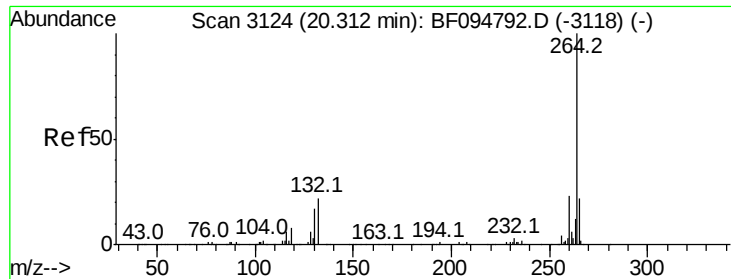
mohammad
5/30/2017 1:35:59 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 28.62 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
276	100		
138	31.2	27.8	41.6
277	24.2	20.2	30.4





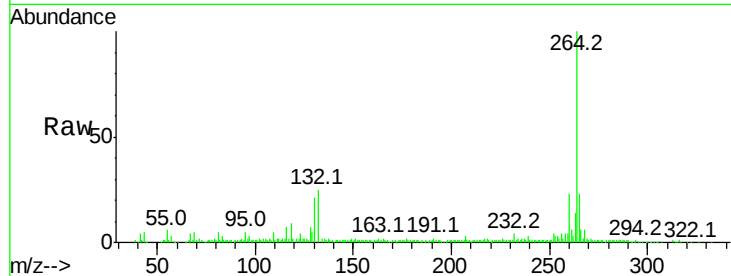
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	23.0	17.2	25.8

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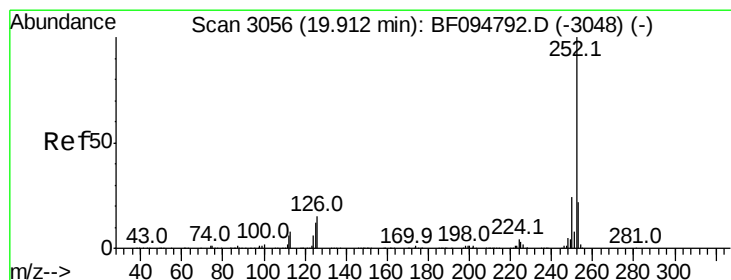
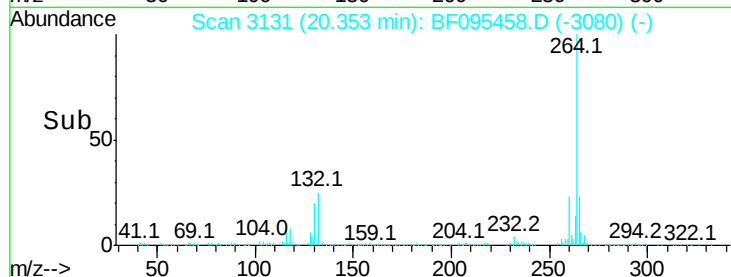
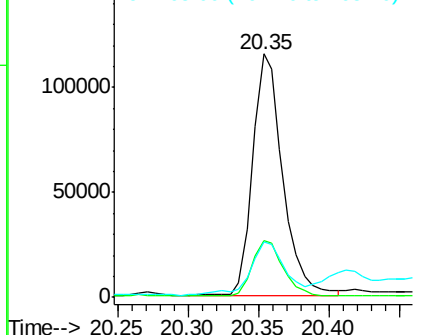


Abundance

Ion 264.00 (263.70 to 264.70): E

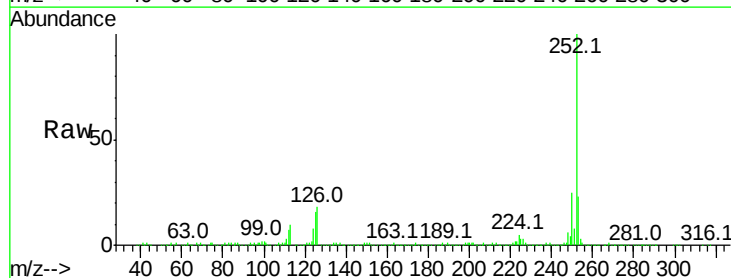
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 71.22 ng m
RT: 19.95 min Scan# 3062
Delta R.T. 0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	16.3	9.8	14.8#

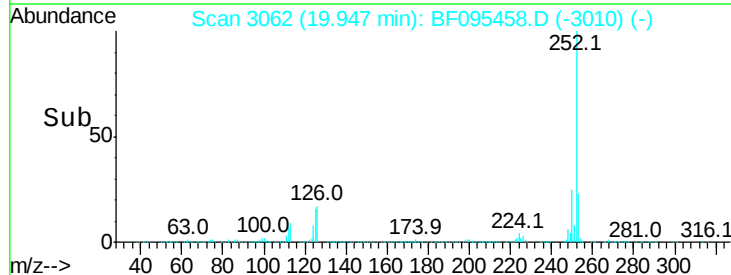
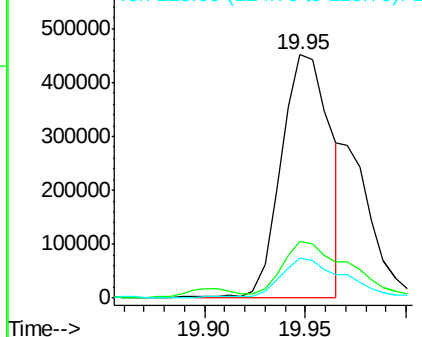


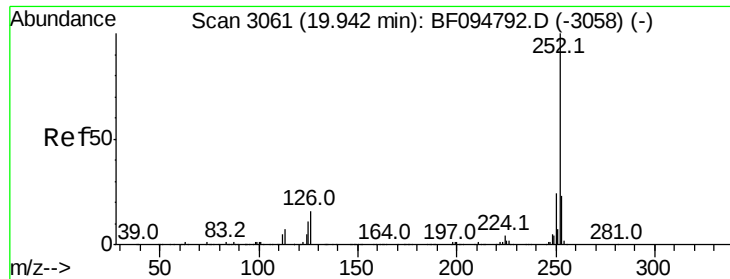
Abundance

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





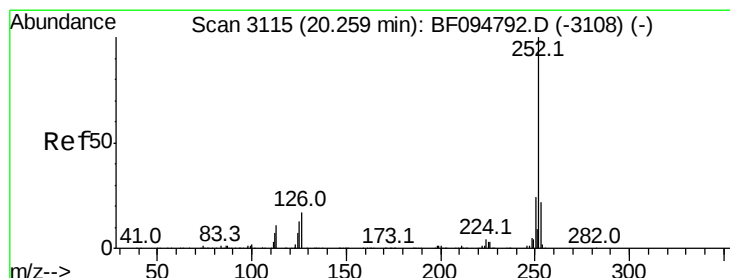
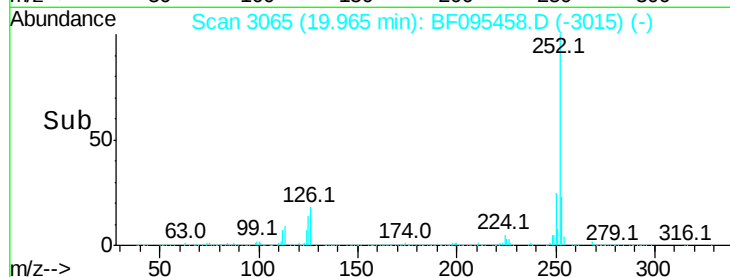
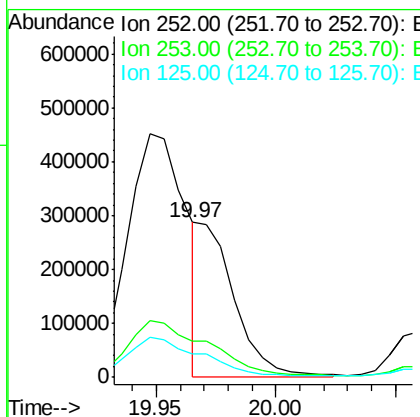
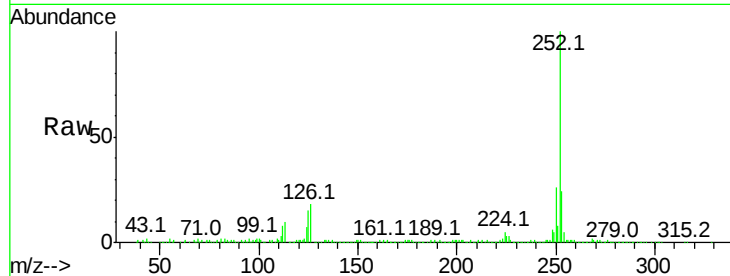
#88
Benzo(k)fluoranthene
Concen: 27.83 ng m
RT: 19.97 min Scan# 3065
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	14.9	13.1	19.7

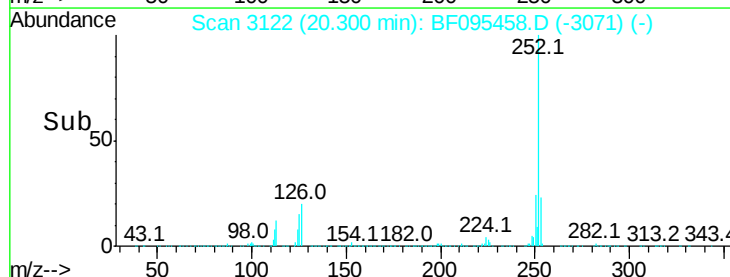
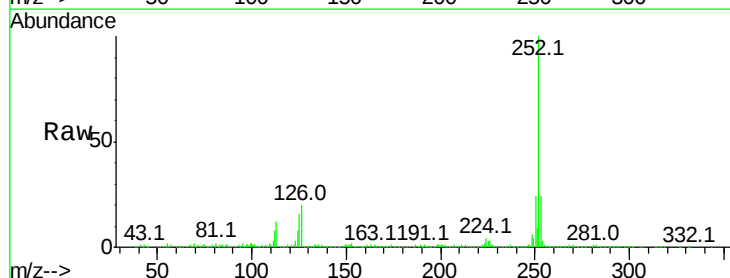
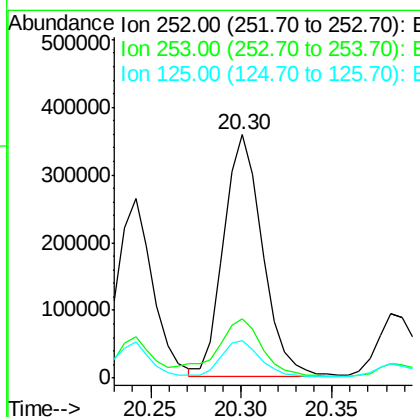
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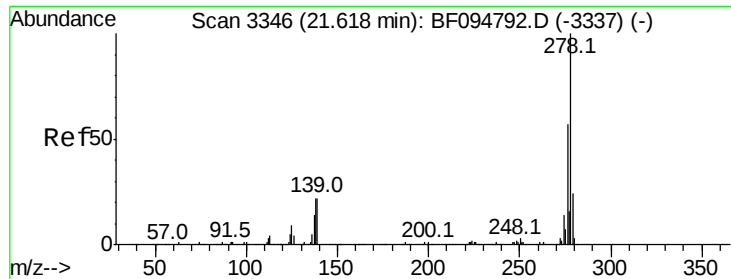
mohammad
5/30/2017 1:35:59 PM



#89
Benzo(a)pyrene
Concen: 53.70 ng
RT: 20.30 min Scan# 3122
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.5	26.3
125	15.6	11.0	16.4





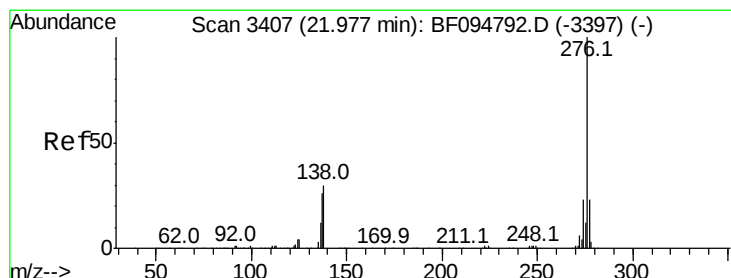
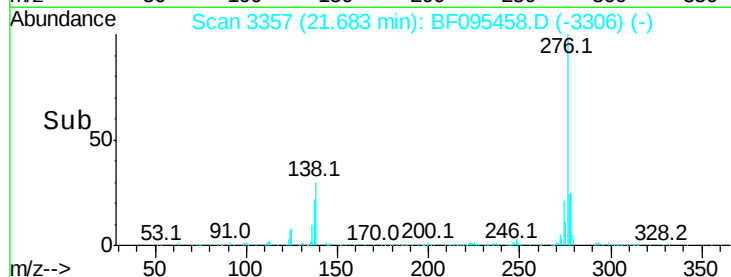
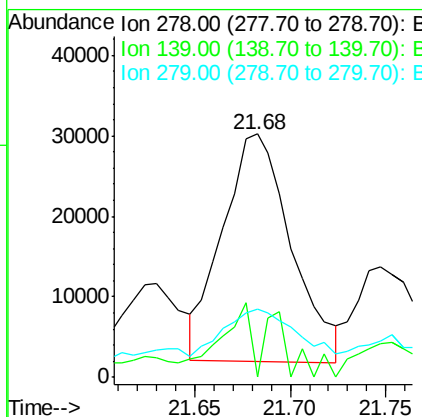
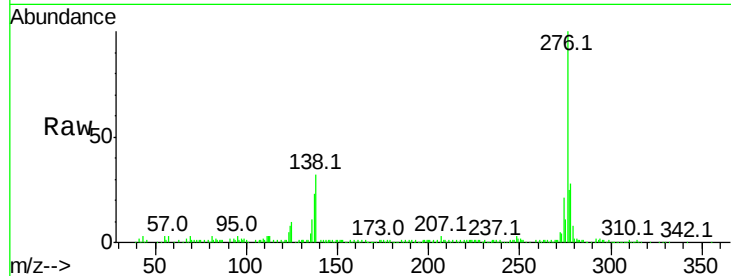
#90
Dibenzo(a,h)anthracene
Concen: 8.64 ng/mL
RT: 21.68 min Scan# 3357
Delta R.T. 0.00 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Instrument :
BNA_F
ClientSampleId :
EP2-WC6(0-6.5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	28.0	19.3	28.9

Manual Integrations
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5/30/2017 1:35:59 PM



#91
Benzo(g,h,i)perylene
Concen: 29.32 ng/mL
RT: 22.08 min Scan# 3424
Delta R.T. 0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	32.6	25.4	38.0

