

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
 Data File : BF095443.D
 Acq On : 26 May 2017 1:45
 Operator : SJ/MA
 Sample : I3200-05 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-37-20170517

Manual Integrations
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Quant Time: May 26 04:42:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	96007	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	387392	20.00	ng	-0.01
38) Acenaphthene-d10	12.60	164	160528	20.00	ng	-0.02
63) Phenanthrene-d10	15.00	188	245136	20.00	ng	-0.02
75) Chrysene-d12	18.68	240	195273	20.00	ng	-0.02
86) Perylene-d12	20.36	264	149159	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.75	112	91067	15.81	ng	0.02
7) Phenol-d6	7.34	99	129894	18.80	ng	0.03
23) Nitrobenzene-d5	8.67	82	77047	12.54	ng	0.00
41) 2,4,6-Tribromophenol	13.92	330	23143	17.60	ng	0.00
44) 2-Fluorobiphenyl	11.54	172	188616	16.91	ng	-0.02
78) Terphenyl-d14	17.32	244	114177	12.88	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.81	128	48410	2.49	ng	99
37) 2-Methylnaphthalene	10.95	142	32219m	2.52	ng	
48) Acenaphthylene	12.37	152	73603	4.31	ng	98
49) Dimethylphthalate	12.24	163	36079	2.74	ng	99
51) Acenaphthene	12.65	154	29501	2.89	ng	95
54) Dibenzofuran	12.95	168	71949	5.09	ng	95
57) Fluorene	13.49	166	61475	5.00	ng	97
70) Phenanthrene	15.04	178	861728	61.18	ng	98
71) Anthracene	15.12	178	142506m	9.91	ng	
72) Carbazole	15.42	167	48946	3.74	ng	97
74) Fluoranthene	16.79	202	843107	58.35	ng	99
77) Pyrene	17.09	202	753260	51.58	ng	97
80) Benzo(a)anthracene	18.67	228	324571	28.56	ng	97
82) Chrysene	18.71	228	321372	29.24	ng	98
85) Indeno(1,2,3-cd)pyrene	21.69	276	93938	10.53	ng	94
87) Benzo(b)fluoranthene	19.95	252	264646m	28.71	ng	
88) Benzo(k)fluoranthene	19.98	252	99696m	11.21	ng	
89) Benzo(a)pyrene	20.30	252	187500	22.05	ng	95
90) Dibenzo(a,h)anthracene	21.69	278	22769	3.24	ng	# 76
91) Benzo(a,h,i)perylene	22.08	276	88172	12.79	ng	97

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

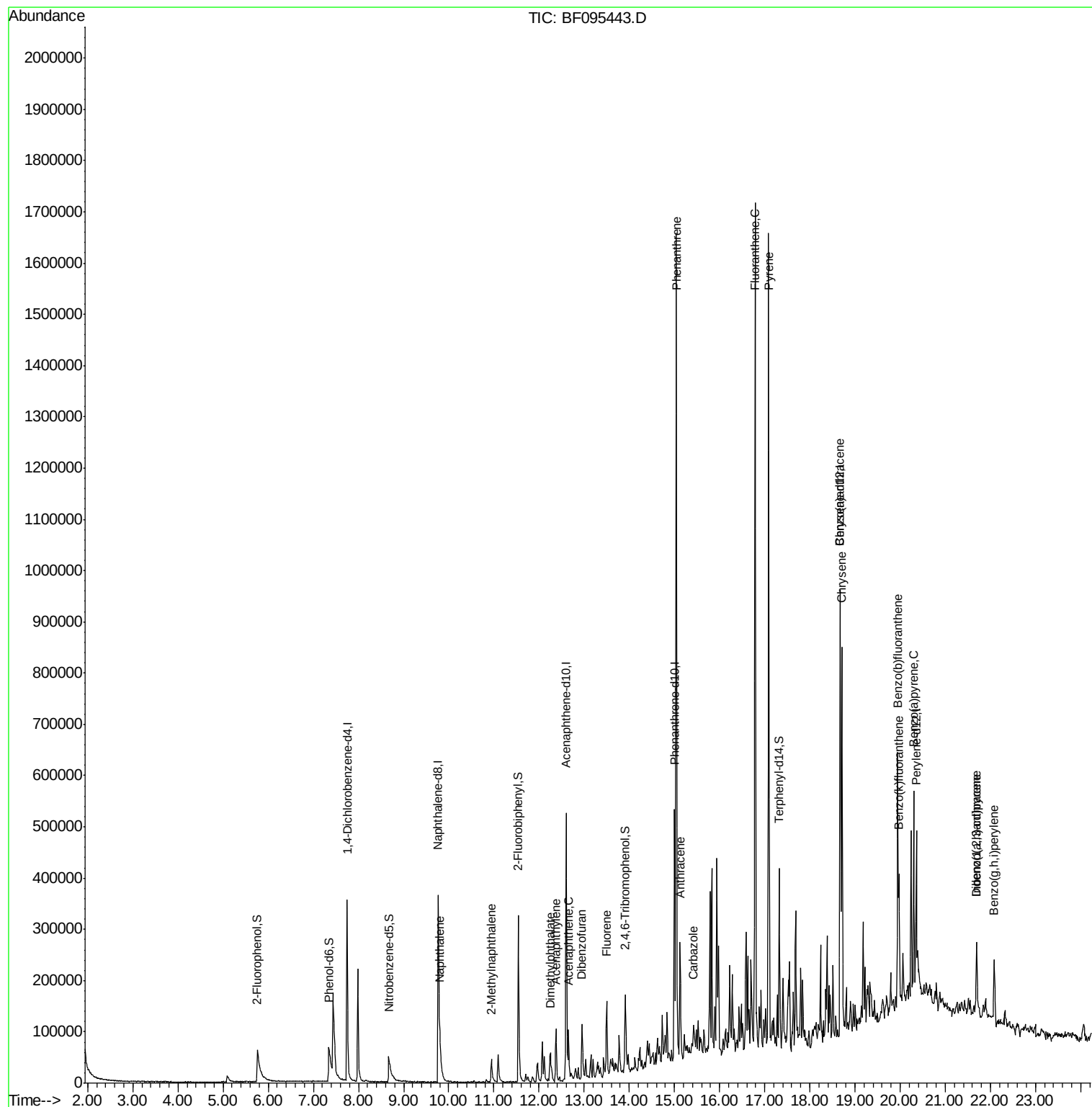
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ALS Vial : 21 Sample Multiplier: 1

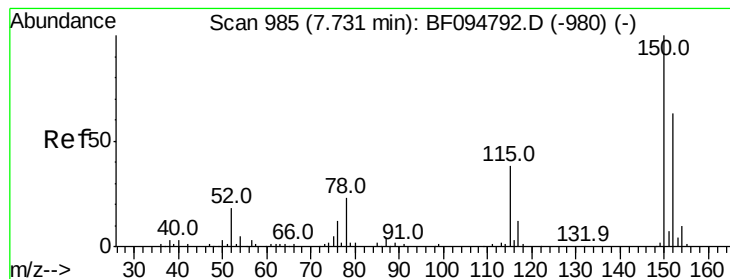
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#1

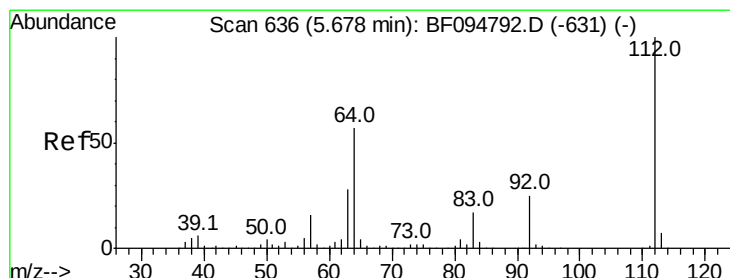
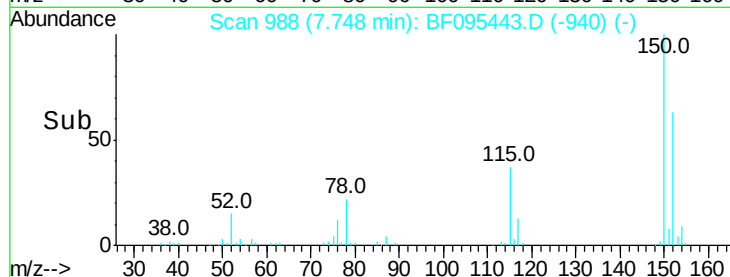
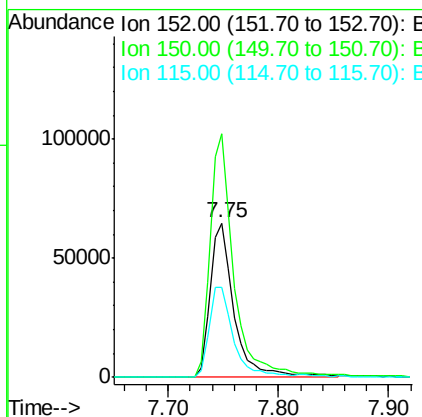
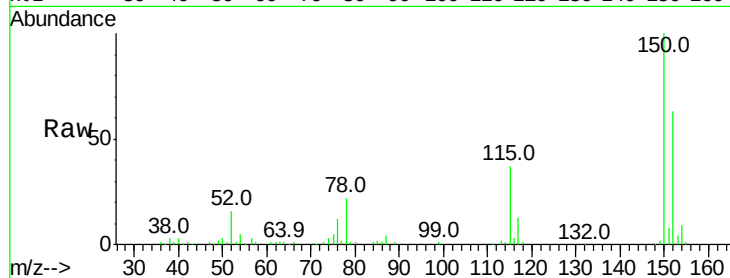
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.75 min Scan# 988
Delta R.T. -0.02 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	126.2	189.2
115	58.8	52.2	78.2

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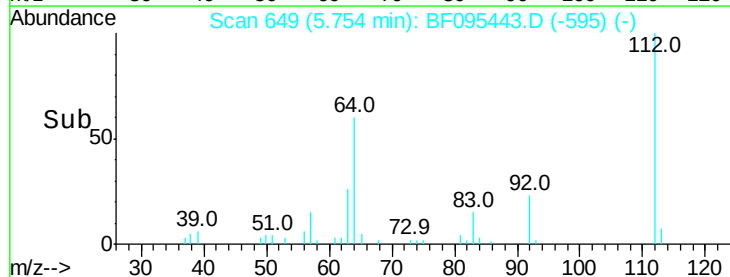
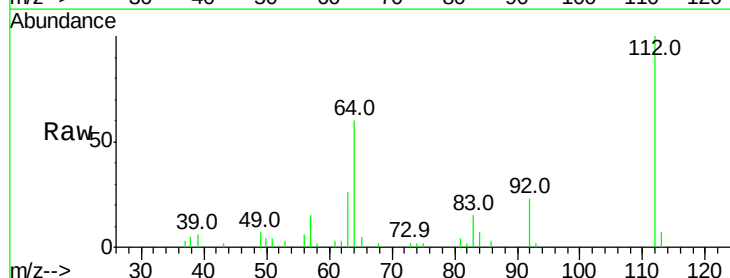
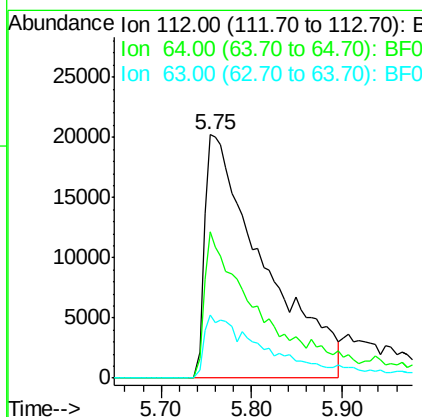
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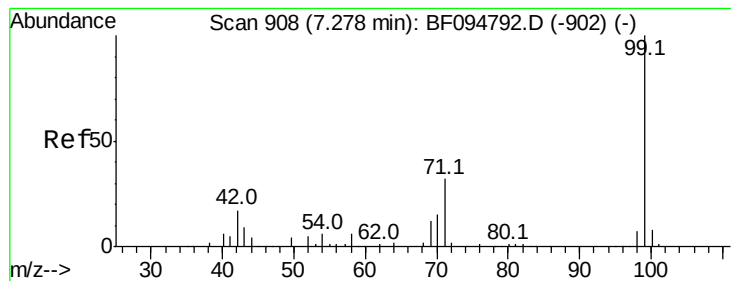


#5

2-Fluorophenol
Concen: 15.81 ng
RT: 5.75 min Scan# 649
Delta R.T. 0.02 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.9	46.0	69.0
63	26.0	23.4	35.0





#7

Phenol-d6

Concen: 18.80 ng

RT: 7.34 min Scan# 919

Delta R.T. 0.03 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

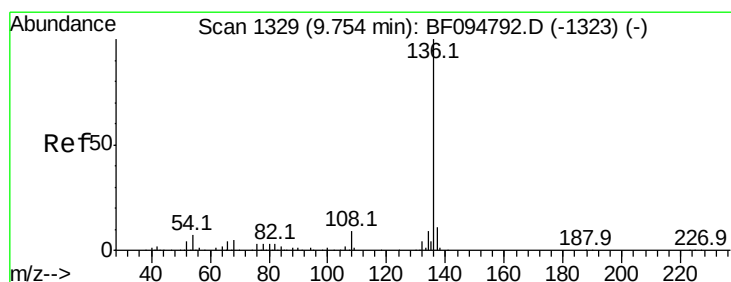
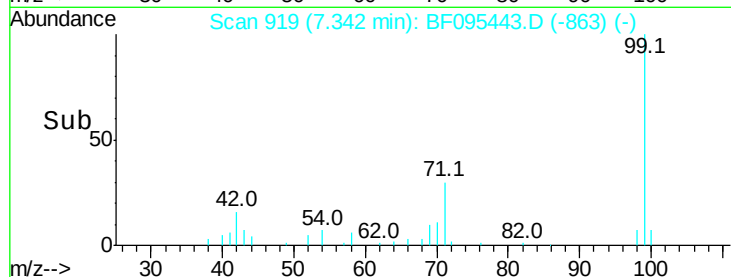
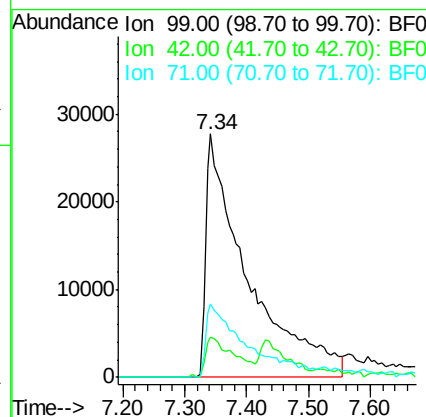
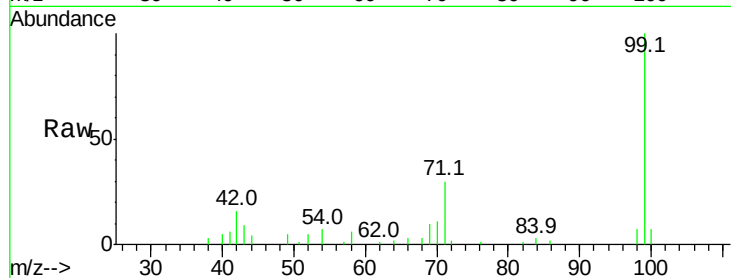
ClientSampleId :

POST-EX-37-20170517

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		129894		
42	16.5	13.5	20.3		
71	30.2	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

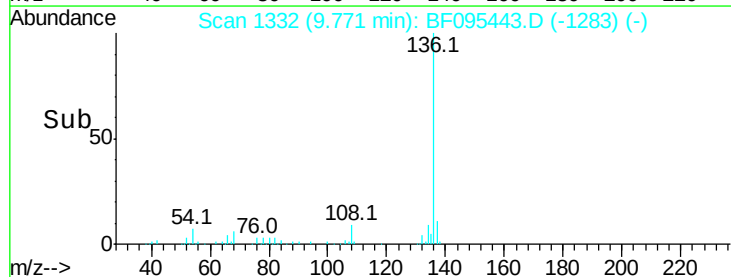
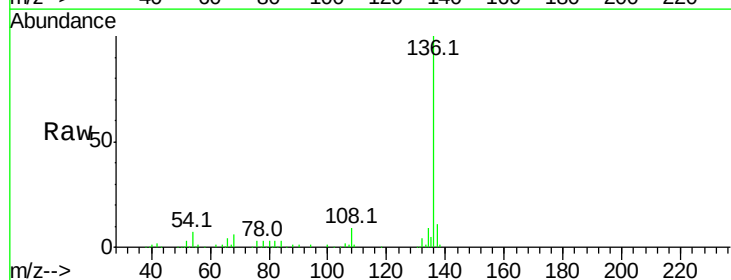
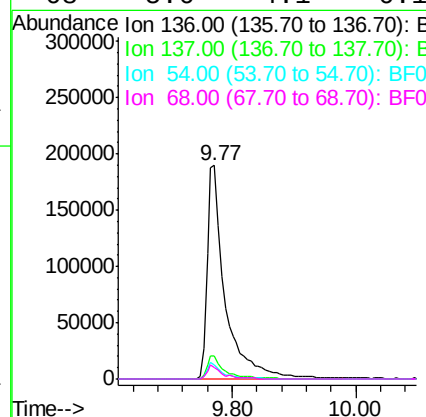
RT: 9.77 min Scan# 1332

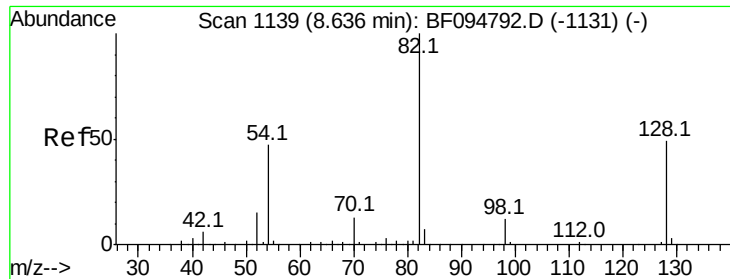
Delta R.T. -0.01 min

Lab File: BF095443.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		387392		
137	10.5	8.5	12.7		
54	6.6	4.9	7.3		
68	5.6	4.1	6.1		





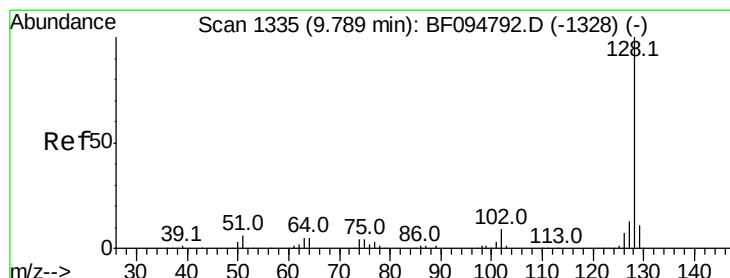
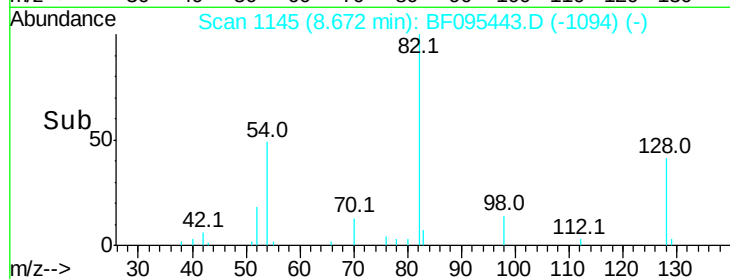
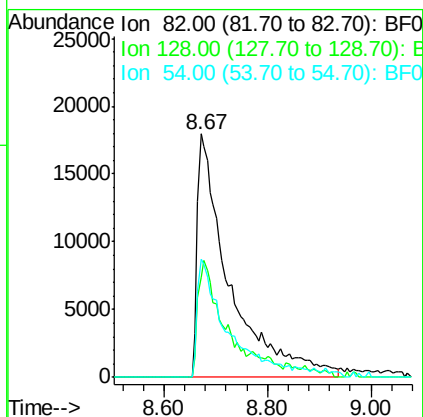
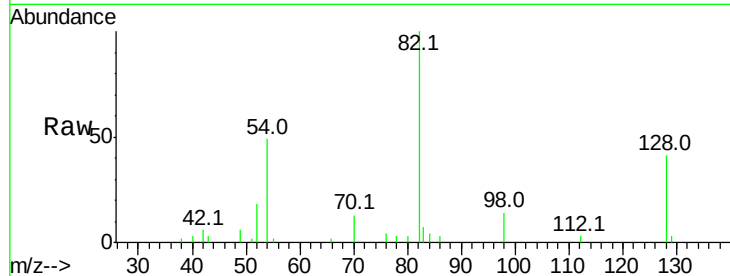
#23
 Nitrobenzene-d5
 Concen: 12.54 ng
 RT: 8.67 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: BF095443.D
 Acq: 26 May 2017 1:45

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.3	34.0	51.0
54	48.7	42.2	63.2

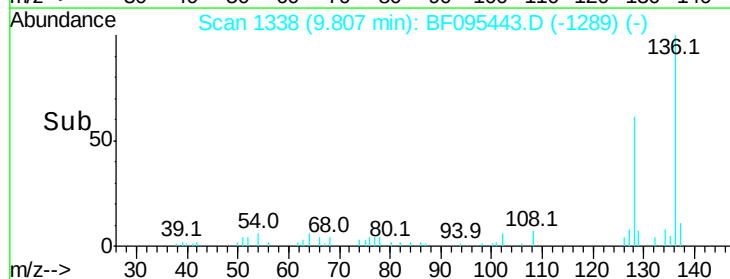
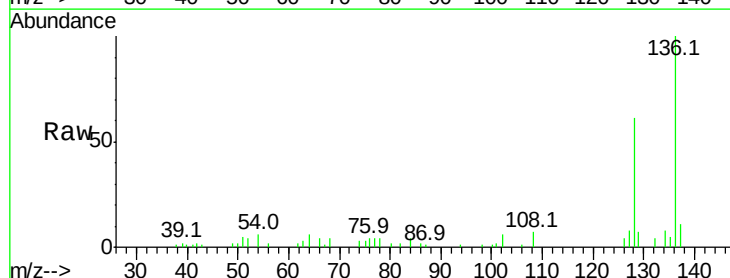
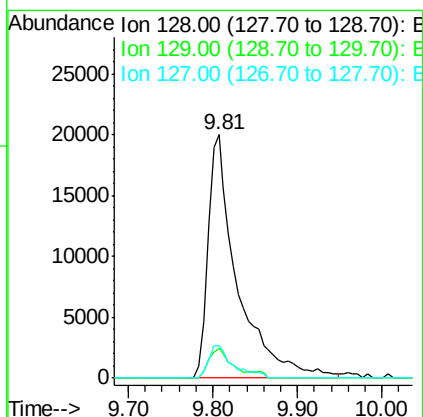
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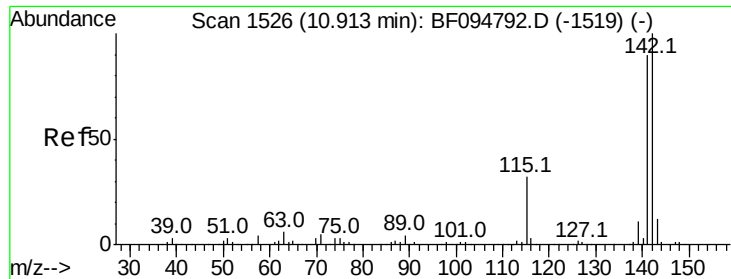
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#31
 Naphthalene
 Concen: 2.49 ng
 RT: 9.81 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF095443.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.0	13.6
127	13.2	10.8	16.2





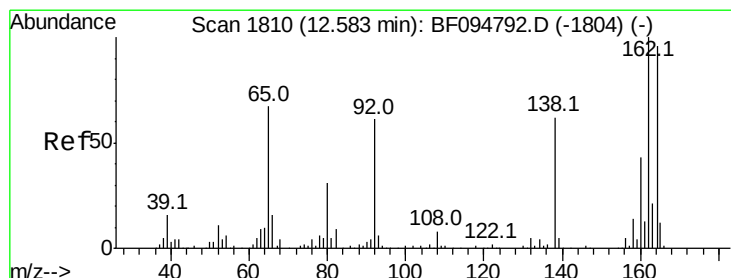
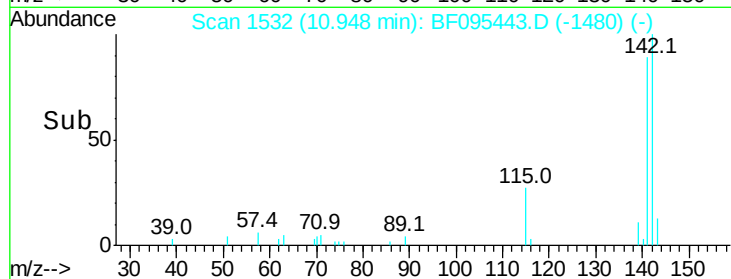
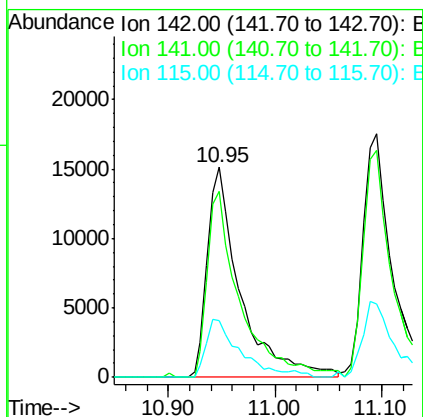
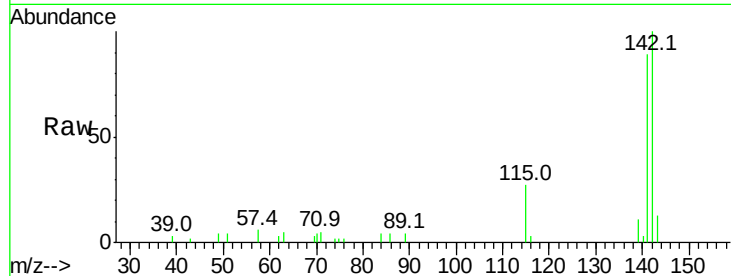
#37
2-Methylnaphthalene
Concen: 2.52 ng
RT: 10.95 min Scan# 1532
Delta R.T. 0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9
115	26.9	27.1	40.7#

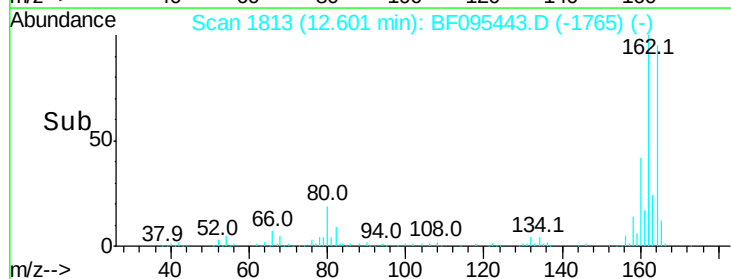
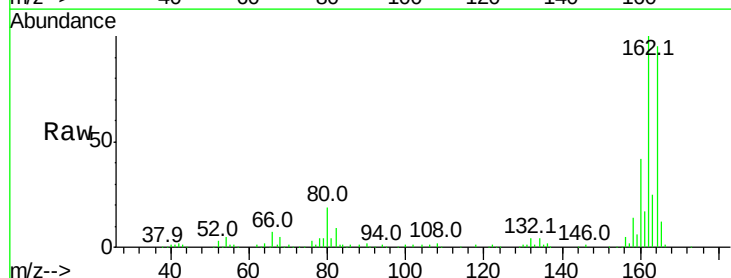
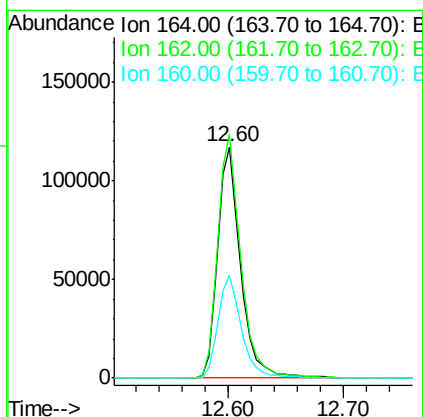
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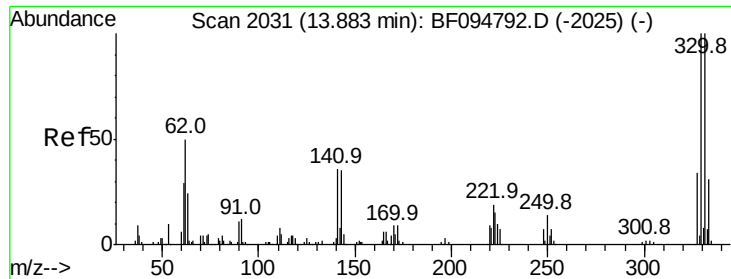
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.60 min Scan# 1813
Delta R.T. -0.02 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.6	123.8
160	44.4	36.2	54.2





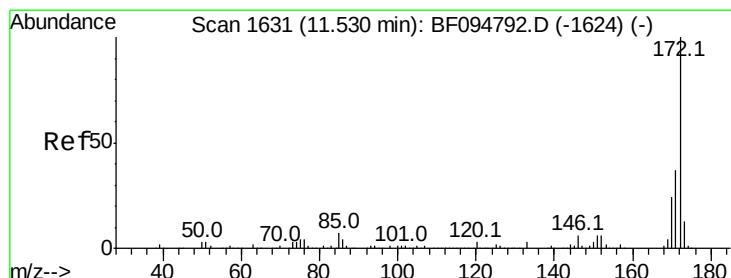
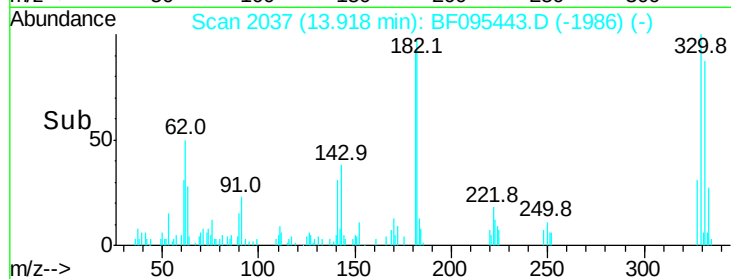
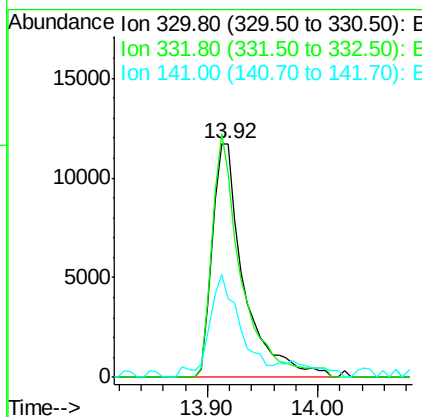
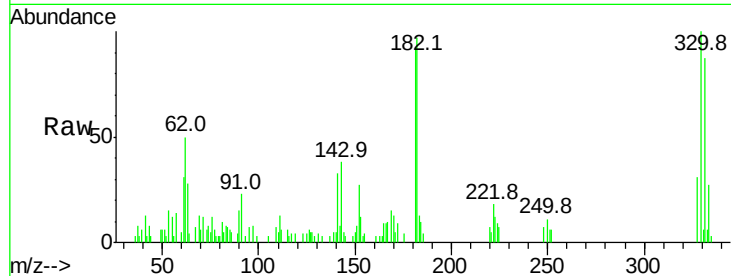
#41
 2,4,6-Tribromophenol
 Concen: 17.60 ng
 RT: 13.92 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: BF095443.D
 Acq: 26 May 2017 1:45

Instrument :
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 ClientSampleId :
 POST-EX-37-20170517

Tot Ion	Ratio	Resp	Lower	Upper
330	100	23143		
332	96.8	76.6	115.0	
141	43.6	31.4	47.2	

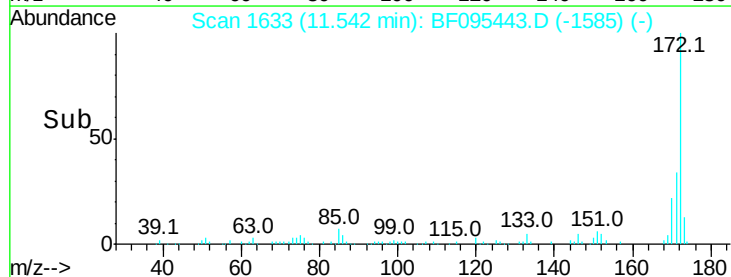
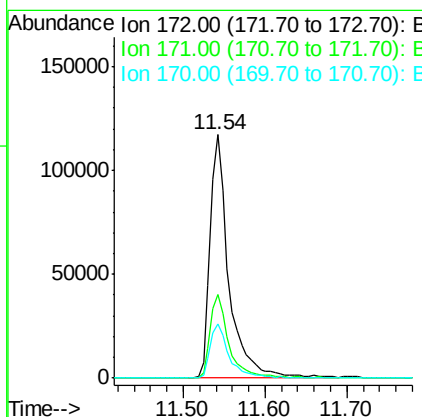
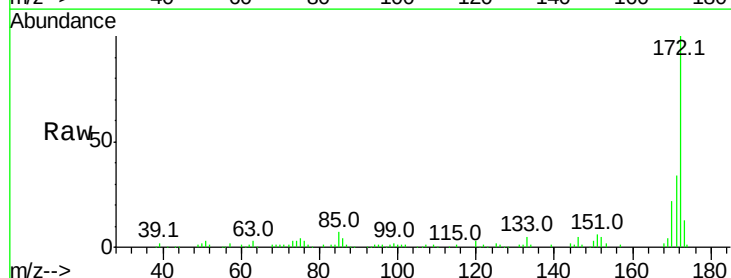
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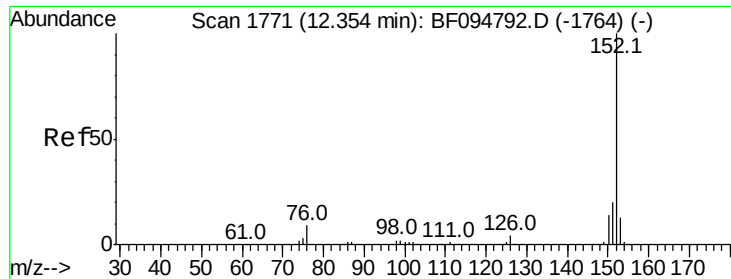
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#44
 2-Fluorobiphenyl
 Concen: 16.91 ng
 RT: 11.54 min Scan# 1633
 Delta R.T. -0.02 min
 Lab File: BF095443.D
 Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	188616		
171	34.2	29.6	44.4	
170	22.0	19.8	29.8	





#48

Acenaphthylene

Concen: 4.31 ng

RT: 12.37 min Scan# 1774

Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

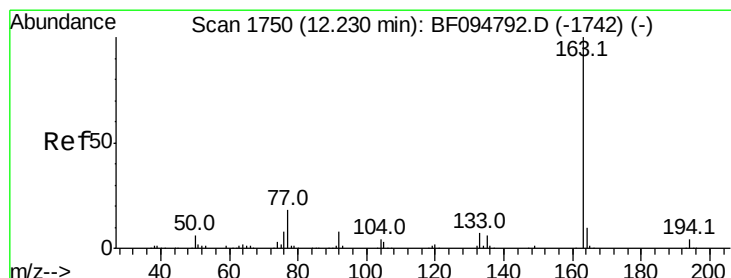
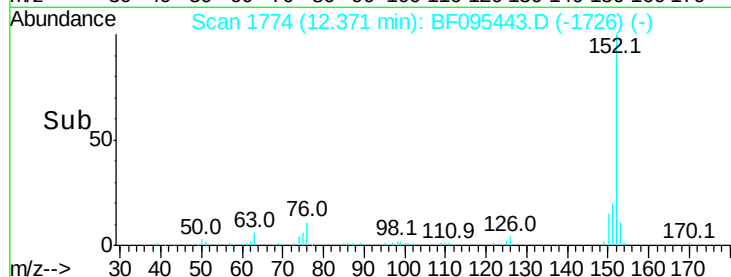
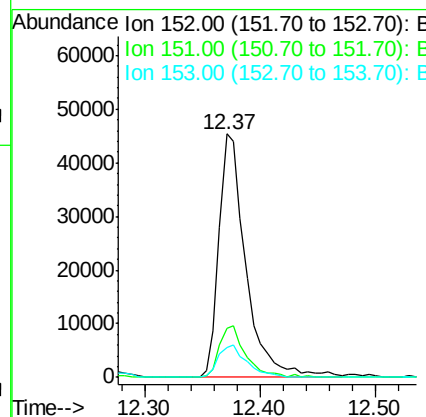
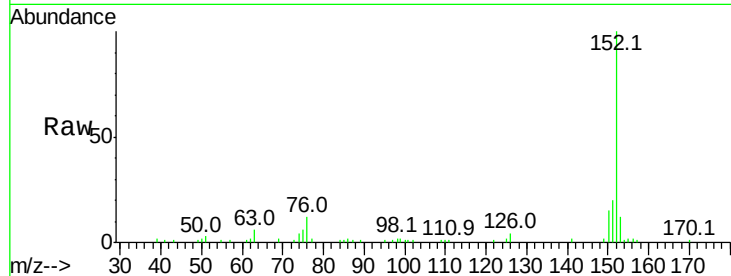
ClientSampleId :

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Tot Ion:	152	Resp:	73603
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.8	25.2
153	12.5	10.8	16.2

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#49

Dimethylphthalate

Concen: 2.74 ng

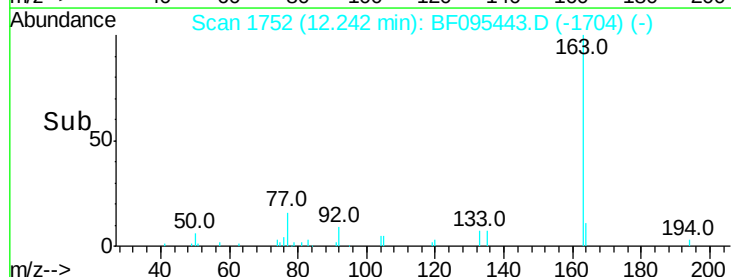
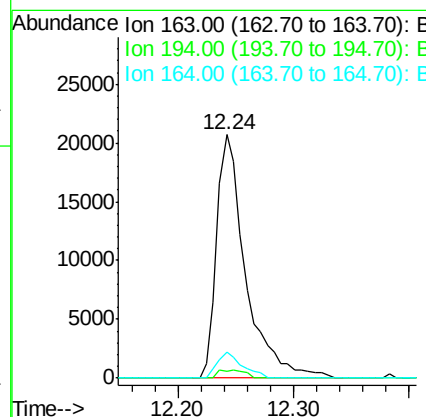
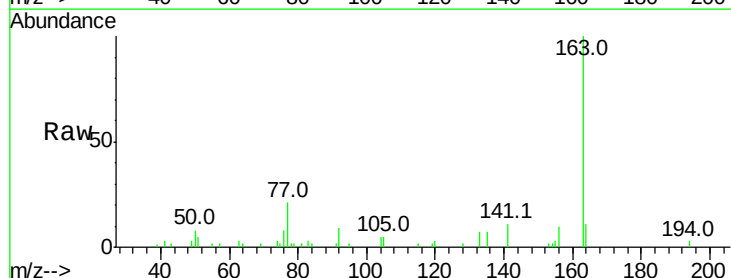
RT: 12.24 min Scan# 1752

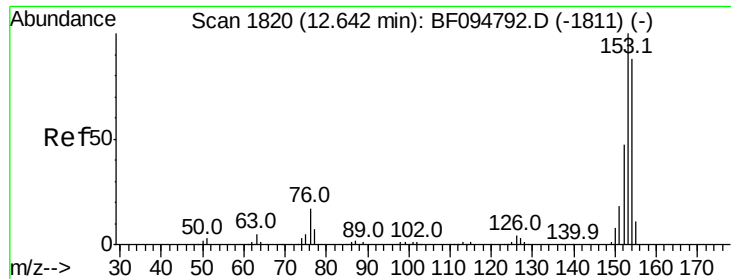
Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion:	163	Resp:	36079
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.6	4.0
164	10.7	8.4	12.6





#51

Acenaphthene

Concen: 2.89 ng

RT: 12.65 min Scan# 1822

Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

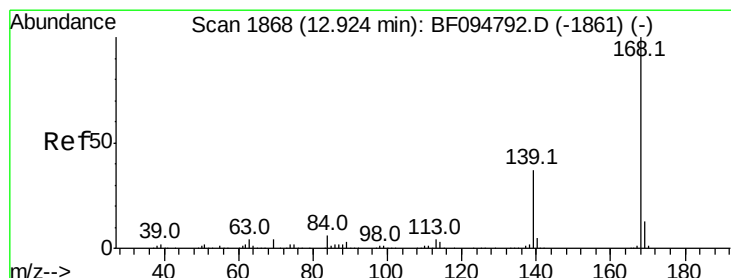
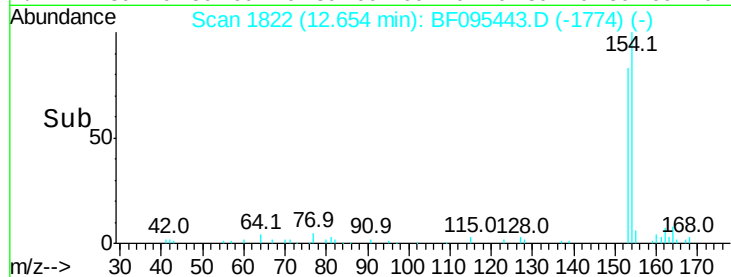
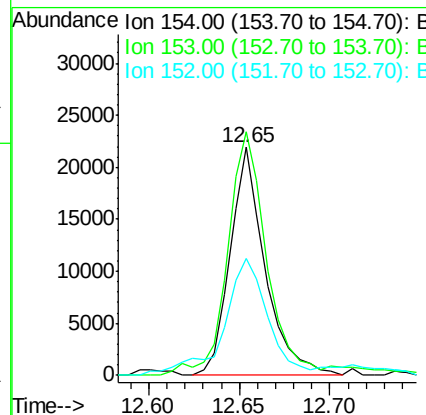
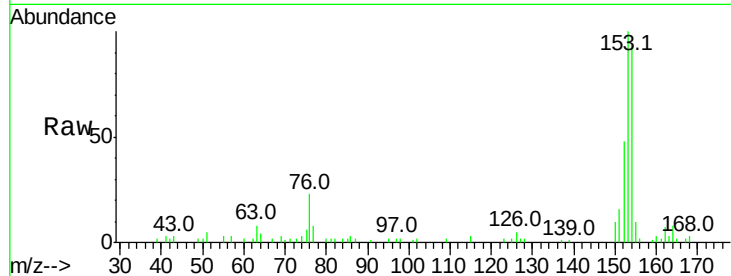
ClientSampleId :

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Tot Ion:	154	Resp:	29501
Ion Ratio	Lower	Upper	
154	100		
153	106.7	90.5	135.7
152	51.5	43.6	65.4

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#54

Dibenzofuran

Concen: 5.09 ng

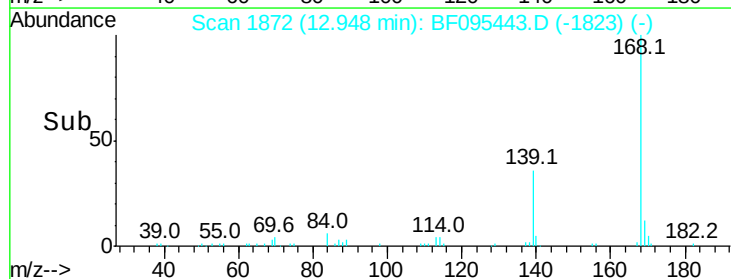
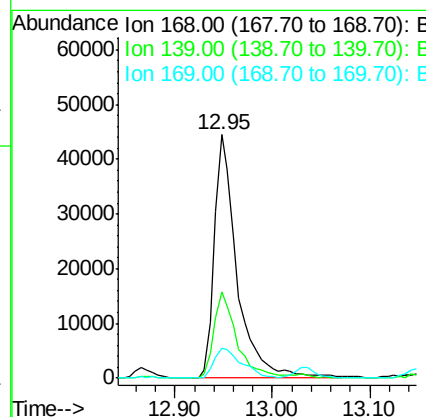
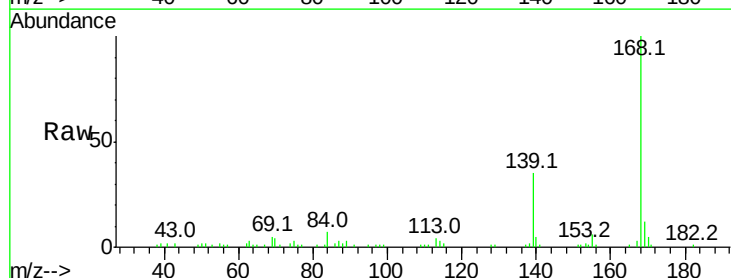
RT: 12.95 min Scan# 1872

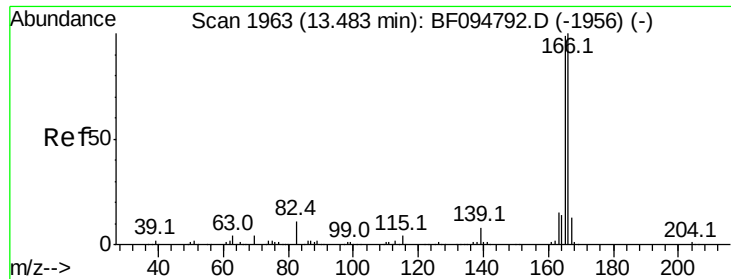
Delta R.T. -0.01 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion:	168	Resp:	71949
Ion Ratio	Lower	Upper	
168	100		
139	35.2	30.6	45.8
169	12.2	10.8	16.2





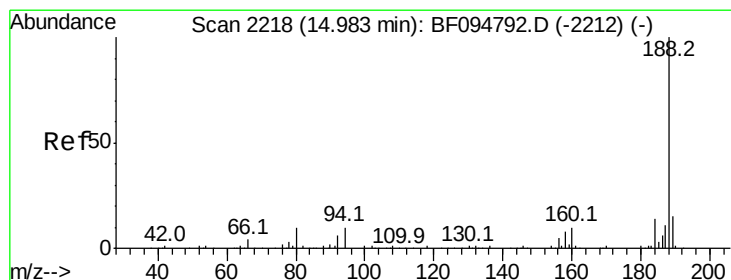
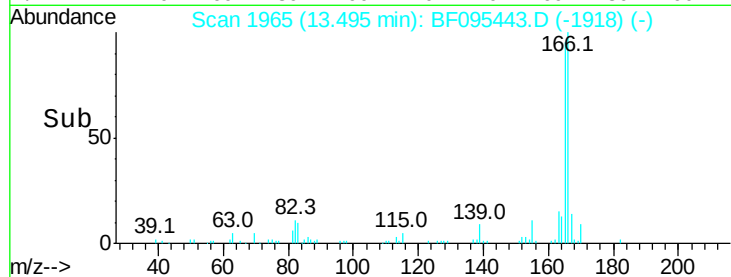
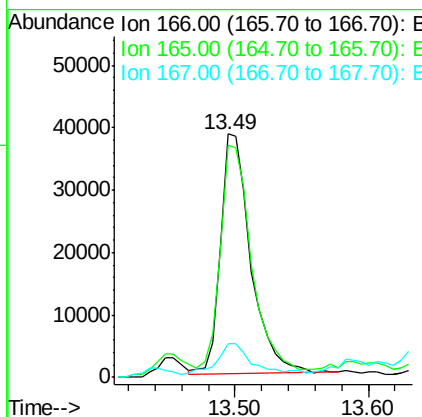
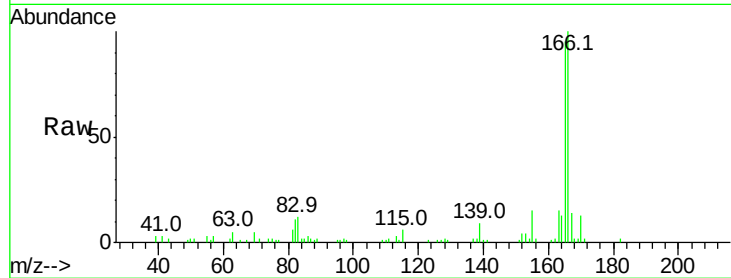
#57
Fluorene
 Concen: 5.00 ng
 RT: 13.49 min Scan# 1965
 Delta R.T. -0.02 min
 Lab File: BF095443.D
 Acq: 26 May 2017 1:45

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.1	78.8	118.2
167	13.6	10.6	16.0

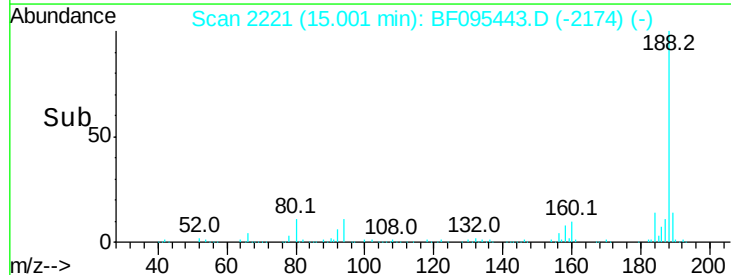
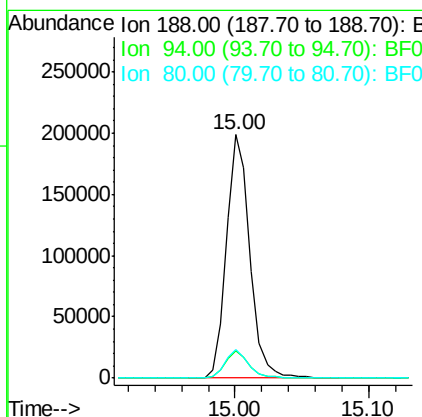
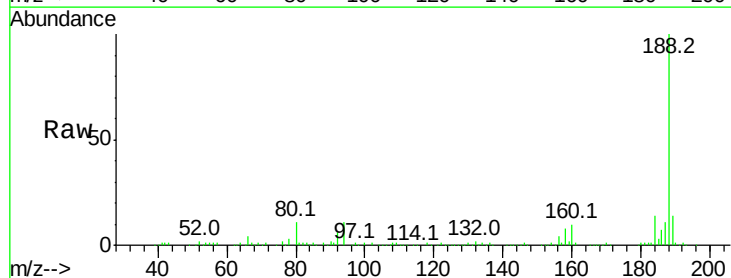
Manual Integrations
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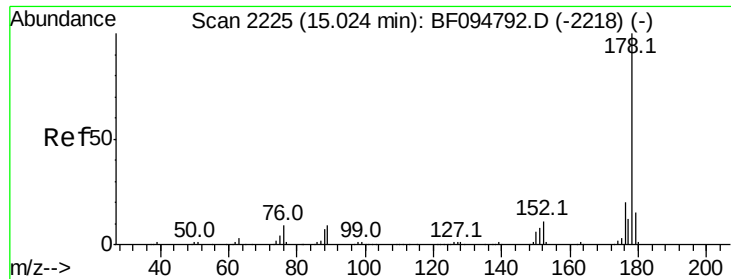
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.00 min Scan# 2221
 Delta R.T. -0.02 min
 Lab File: BF095443.D
 Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.3	9.4	14.2
80	11.5	10.2	15.2





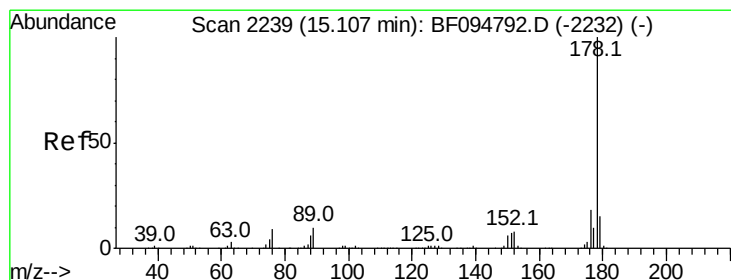
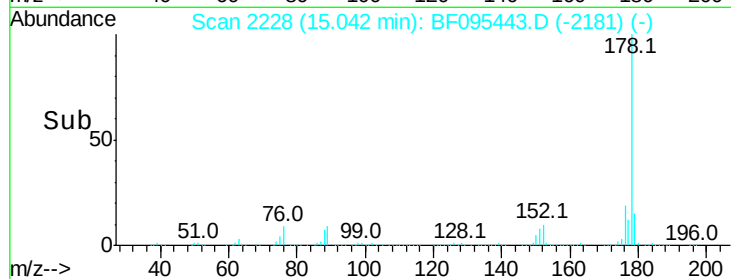
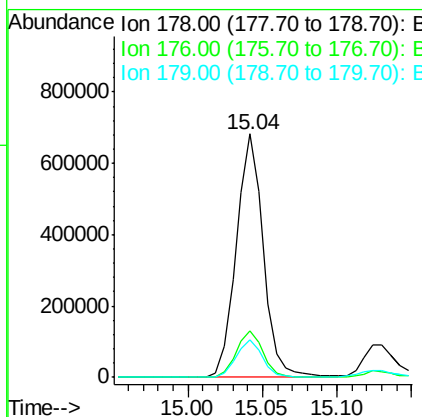
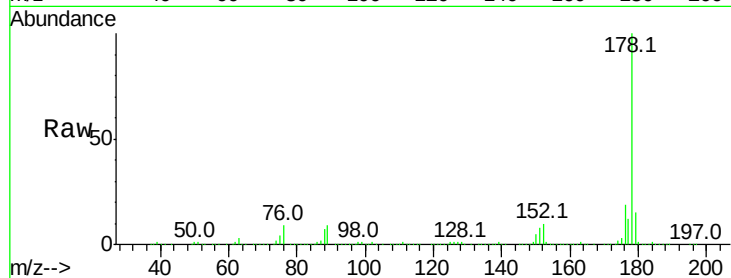
#70
Phenanthrene
Concen: 61.18 ng
RT: 15.04 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.2	24.4
179	15.4	12.6	19.0

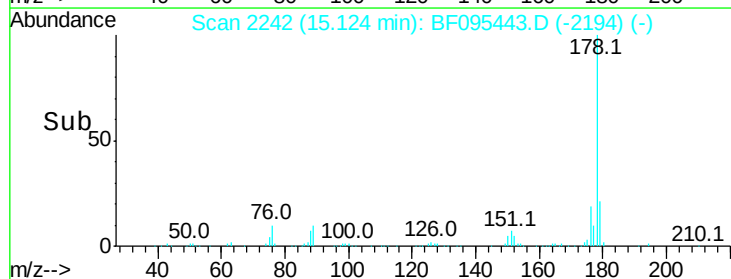
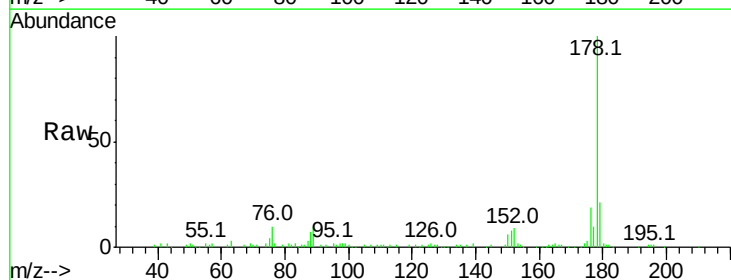
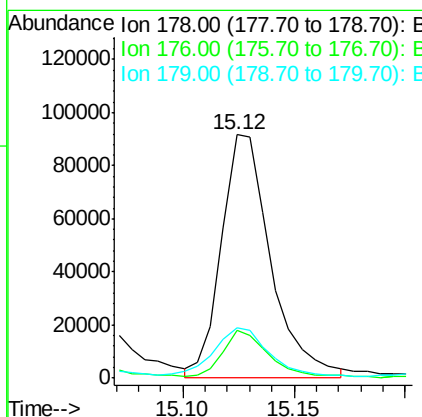
Manual Integrations
APPROVED

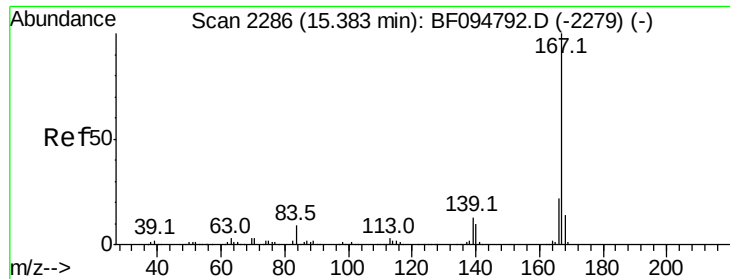
mohammad
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#71
Anthracene
Concen: 9.91 ng m
RT: 15.12 min Scan# 2242
Delta R.T. -0.02 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	20.9	12.7	19.1#





#72

Carbazole

Concen: 3.74 ng

RT: 15.42 min Scan# 2293

Delta R.T. -0.00 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

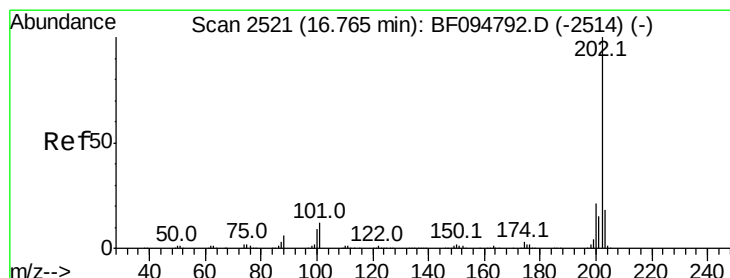
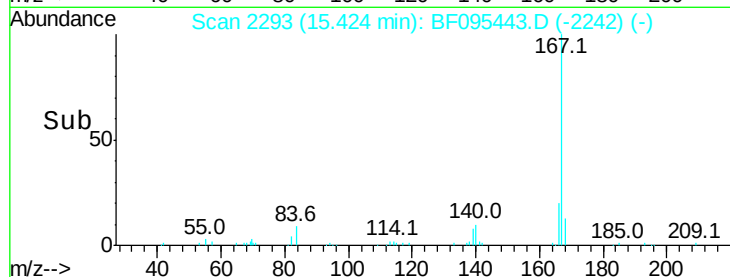
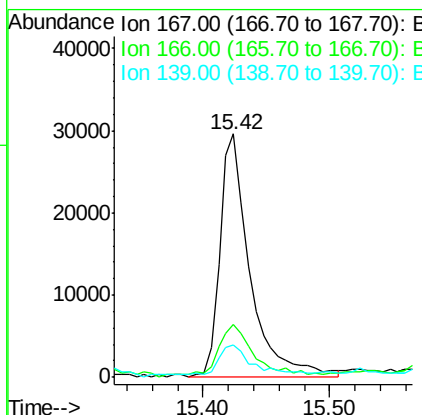
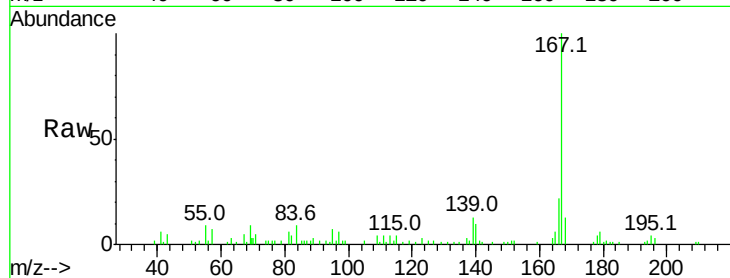
ClientSampleId :

POST-EX-37-20170517

Tot Ion:	167	Resp:	48946
Ion Ratio	Lower	Upper	
167	100		
166	21.5	18.1	27.1
139	13.4	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 58.35 ng

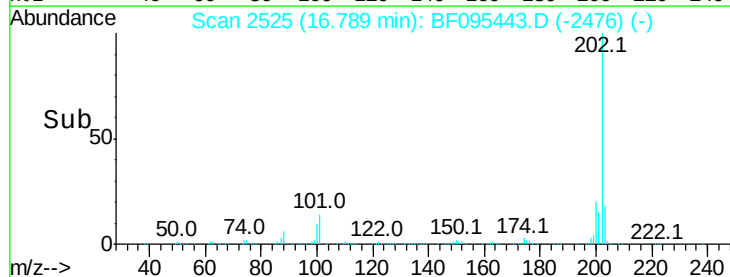
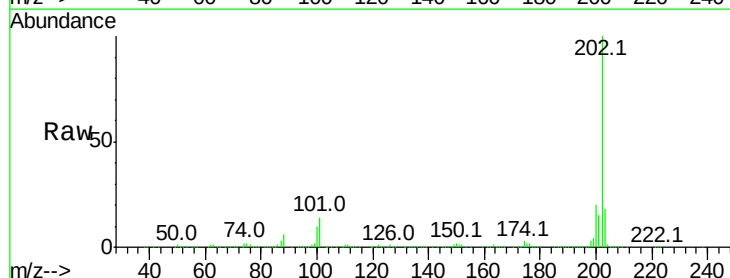
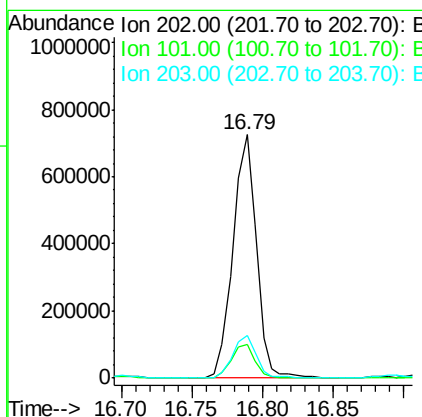
RT: 16.79 min Scan# 2525

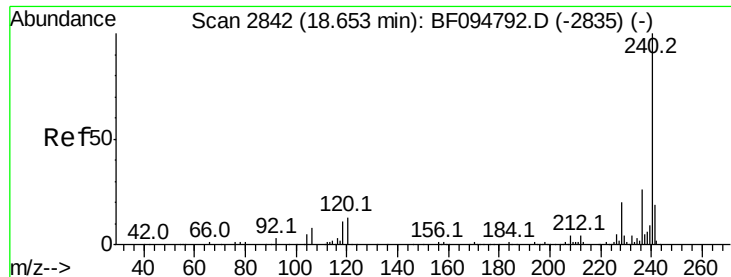
Delta R.T. -0.01 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion:	202	Resp:	843107
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	33.2
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

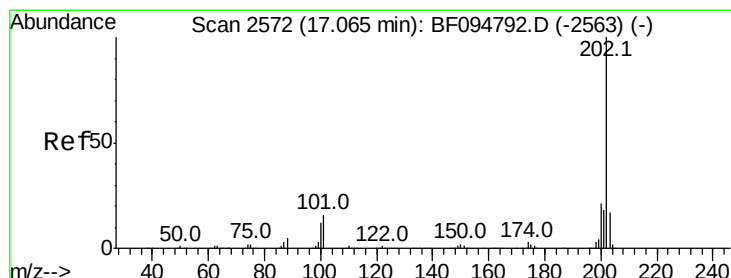
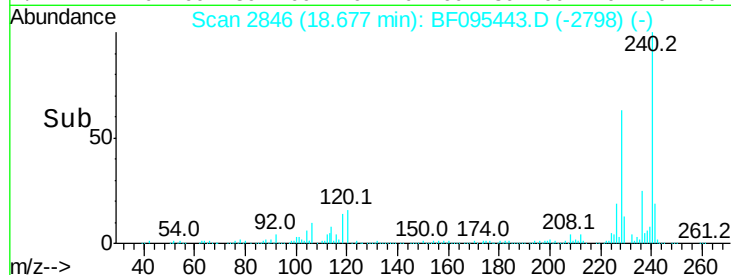
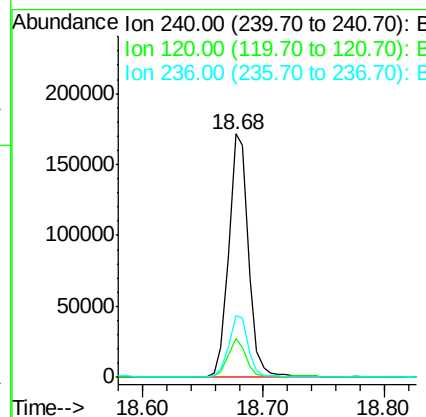
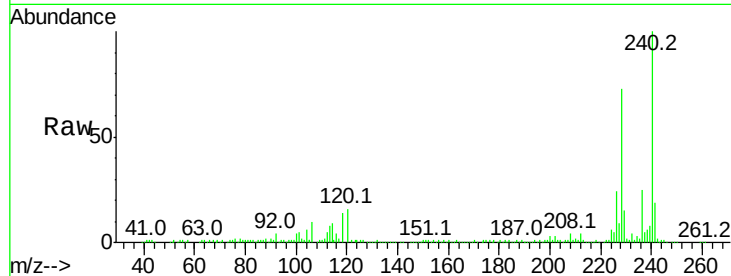
ClientSampleId :

POST-EX-37-20170517

Tot Ion:	240	Resp:	195273
Ion Ratio	Lower	Upper	
240	100		
120	15.9	5.8	8.8#
236	25.2	20.5	30.7

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#77

Pyrene

Concen: 51.58 ng

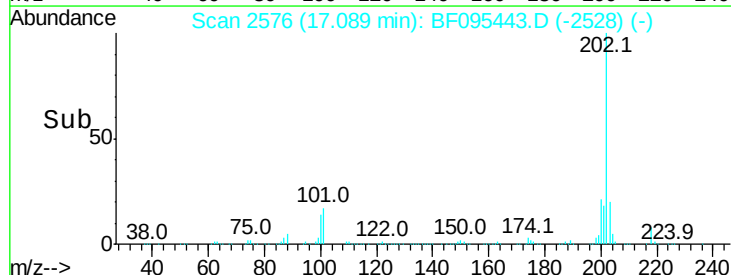
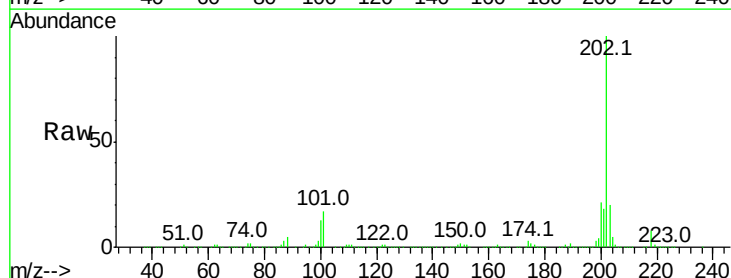
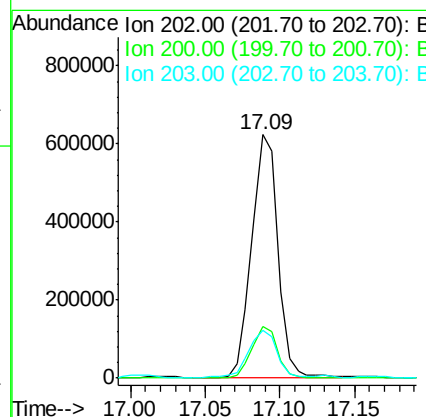
RT: 17.09 min Scan# 2576

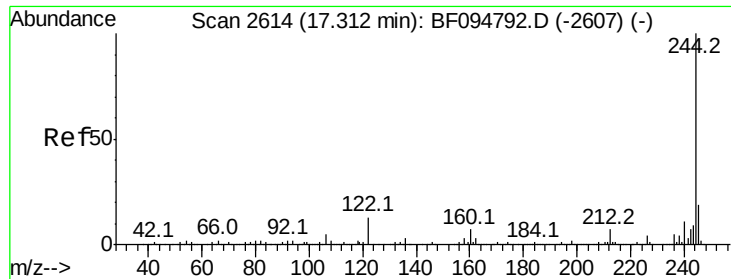
Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion:	202	Resp:	753260
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.6	26.4
203	19.8	14.4	21.6





#78

Terphenyl-d14

Concen: 12.88 ng

RT: 17.32 min Scan# 2616

Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

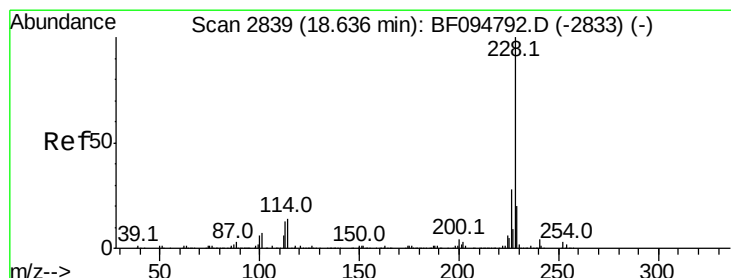
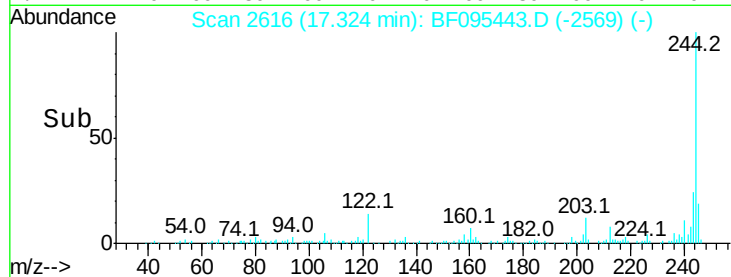
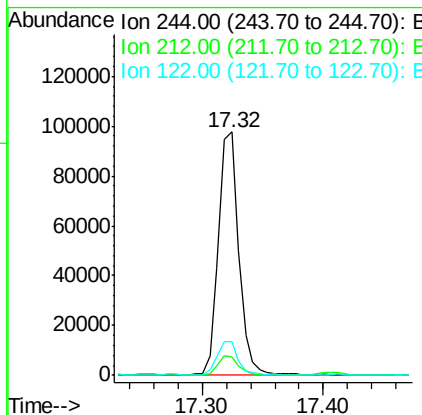
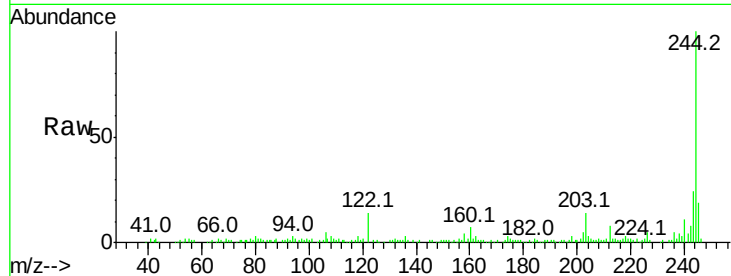
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	13.9	10.3	15.5

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#80

Benzo(a)anthracene

Concen: 28.56 ng

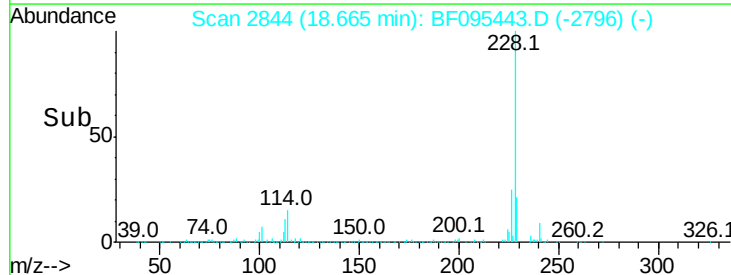
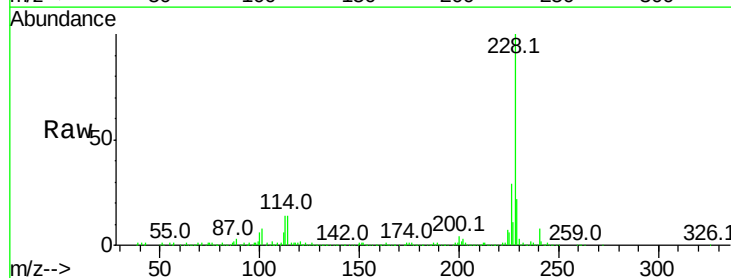
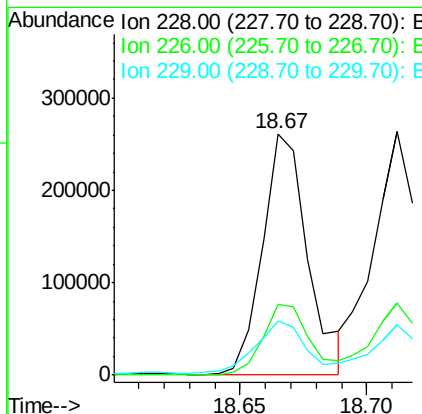
RT: 18.67 min Scan# 2844

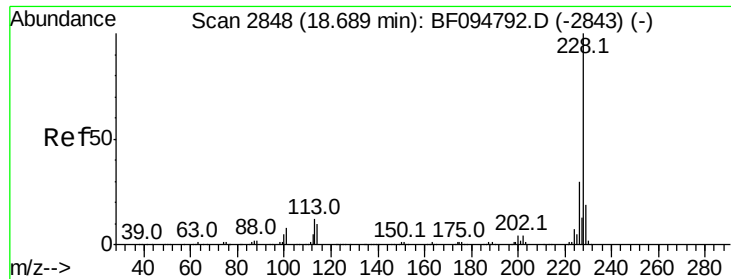
Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	22.4	16.3	24.5





#82

Chrysene

Concen: 29.24 ng

RT: 18.71 min Scan# 2852

Delta R.T. -0.02 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Instrument :

BNA_F

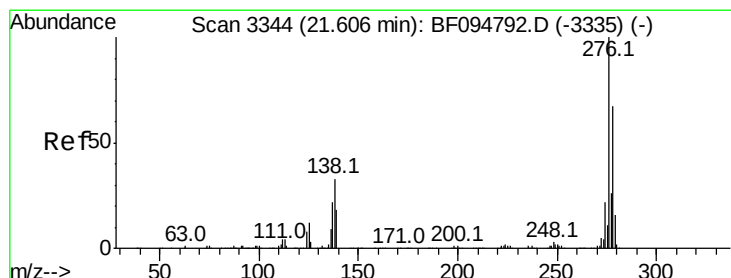
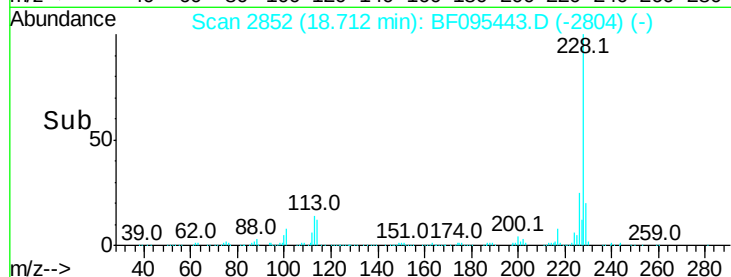
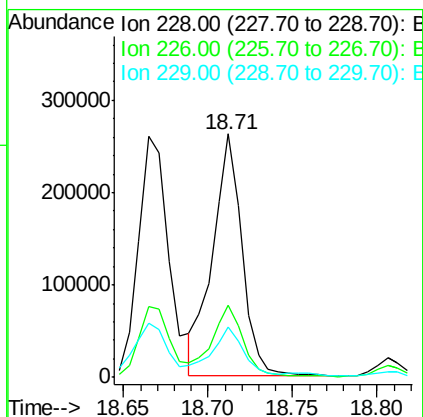
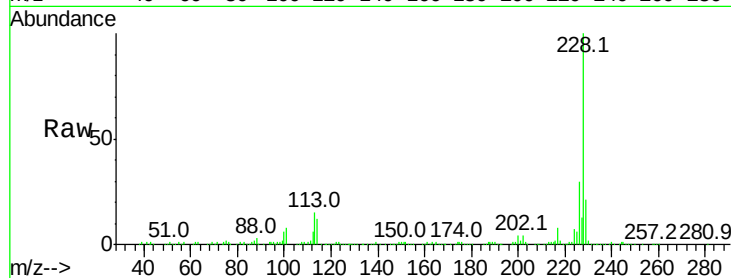
ClientSampleId :

POST-EX-37-20170517

Tot Ion:	228	Resp:	321372
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.9	37.3
229	20.5	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 10.53 ng

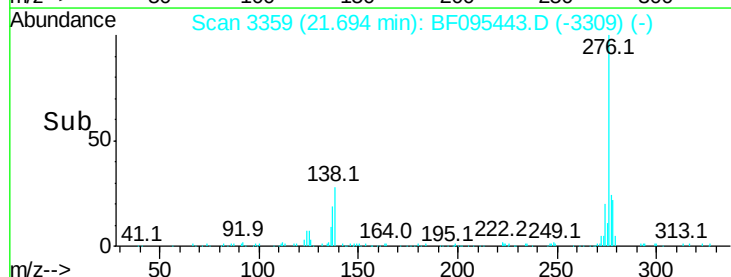
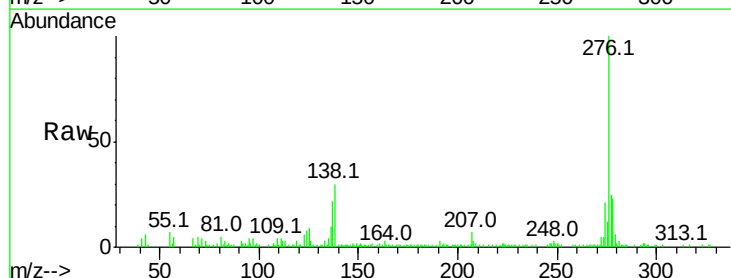
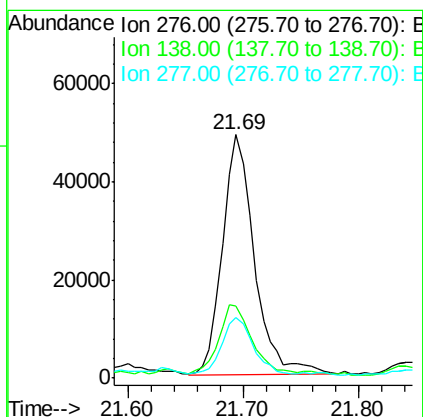
RT: 21.69 min Scan# 3359

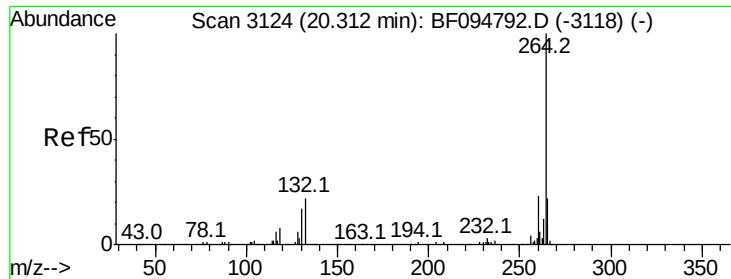
Delta R.T. -0.01 min

Lab File: BF095443.D

Acq: 26 May 2017 1:45

Tgt Ion:	276	Resp:	93938
Ion Ratio	Lower	Upper	
276	100		
138	29.4	27.8	41.6
277	24.0	20.2	30.4





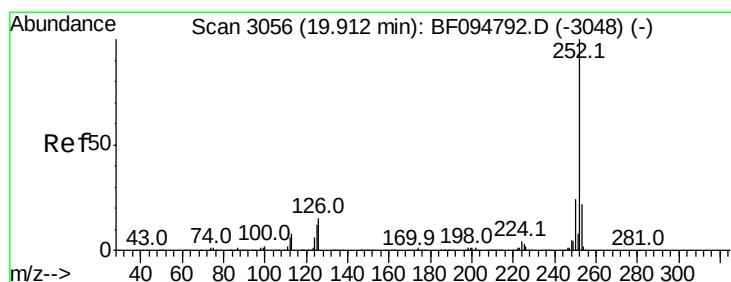
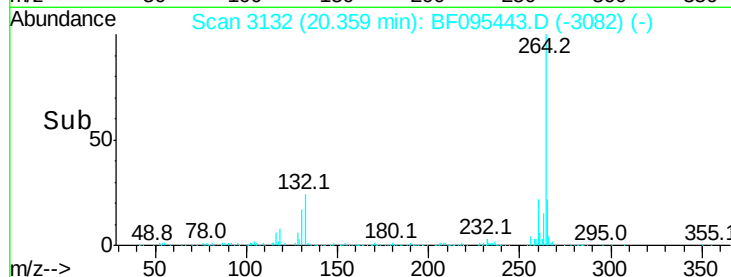
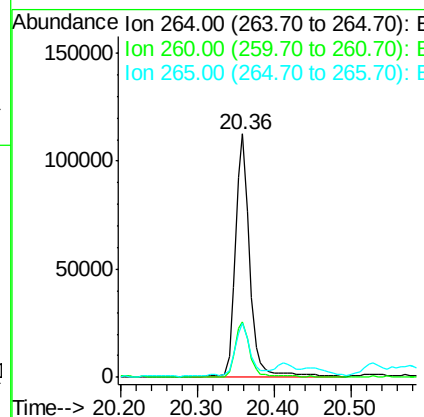
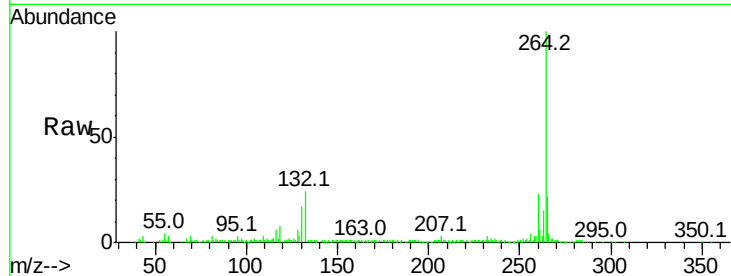
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.5	29.3
265	22.2	17.2	25.8

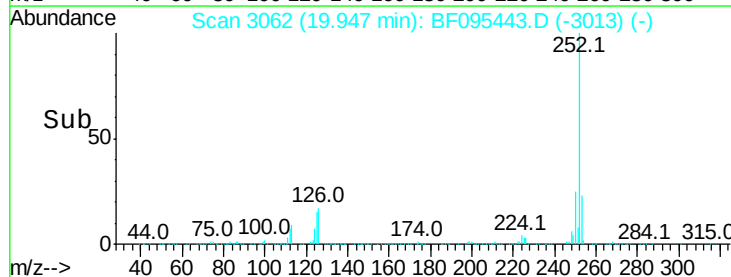
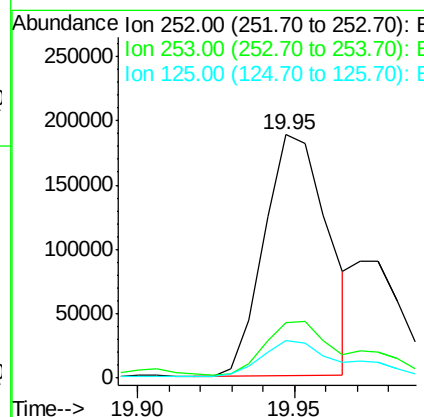
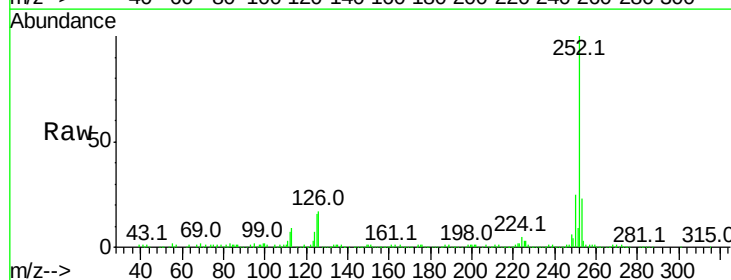
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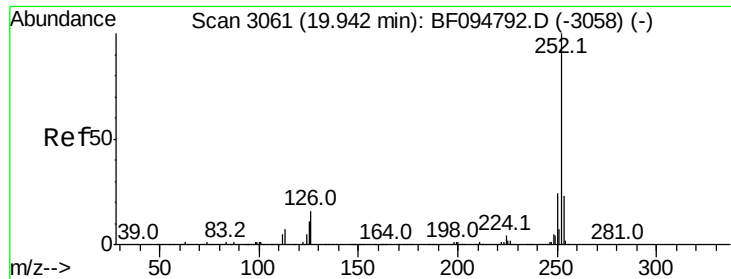
mohammad
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#87
Benzo(b)fluoranthene
Concen: 28.71 ng m
RT: 19.95 min Scan# 3062
Delta R.T. -0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	15.6	9.8	14.8#





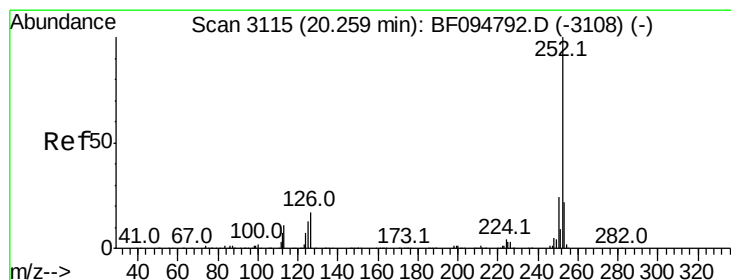
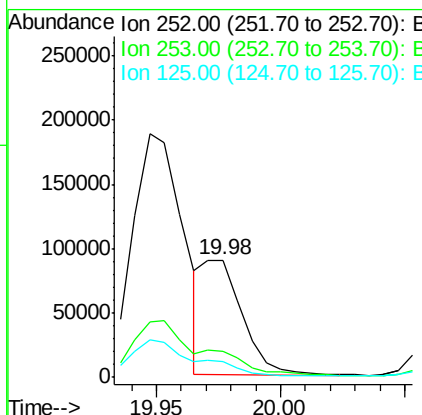
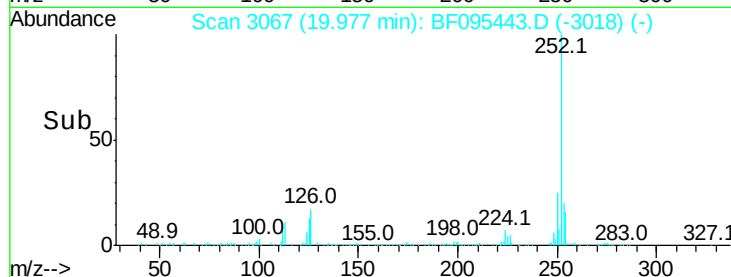
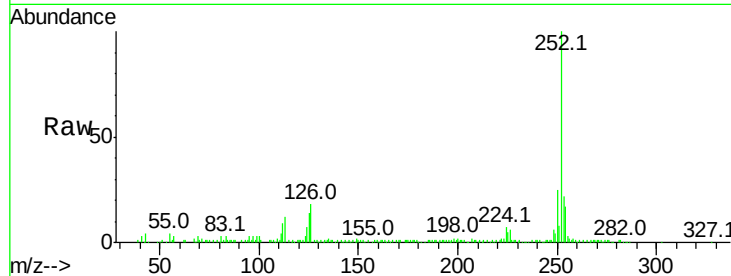
#88
Benzo(k)fluoranthene
Concen: 11.21 ng m
RT: 19.98 min Scan# 3067
Delta R.T. -0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.8	18.4	27.6
125	13.9	13.1	19.7

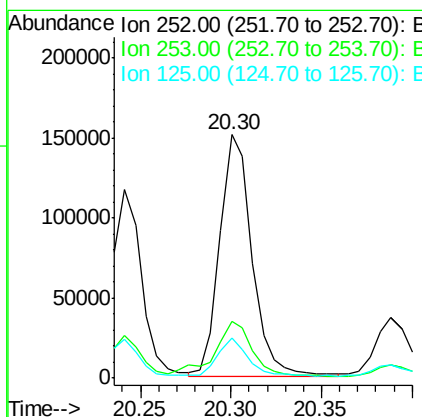
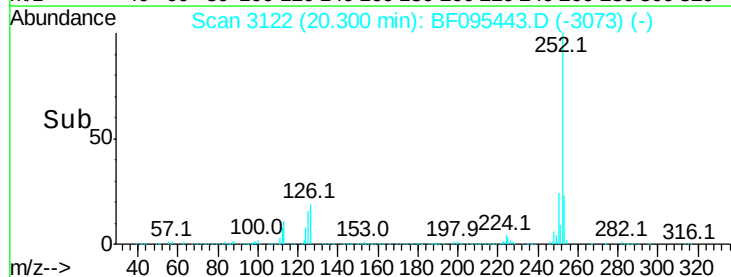
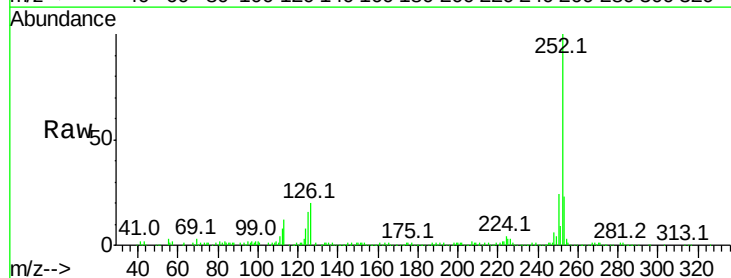
Manual Integrations
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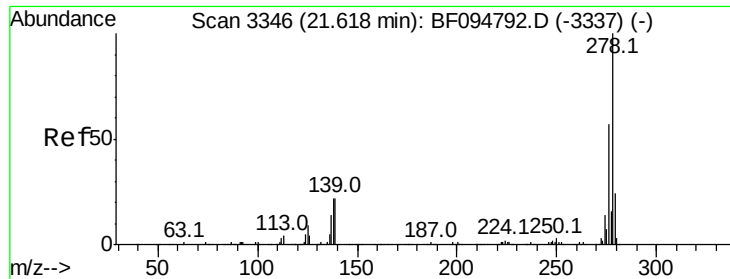
mohammad
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#89
Benzo(a)pyrene
Concen: 22.05 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.4	17.5	26.3
125	16.4	11.0	16.4





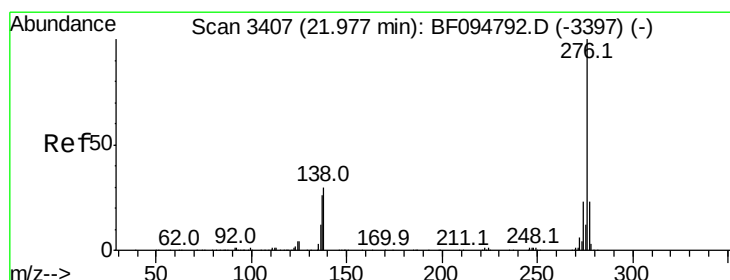
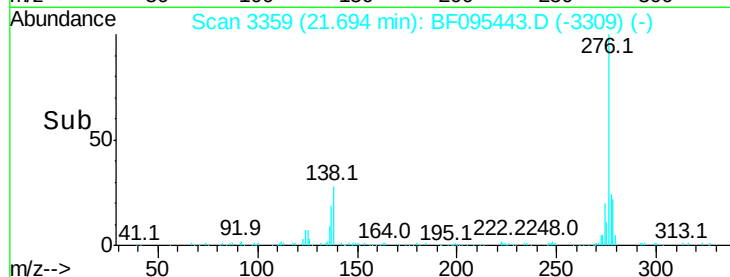
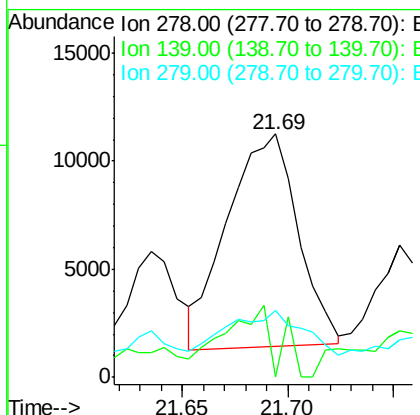
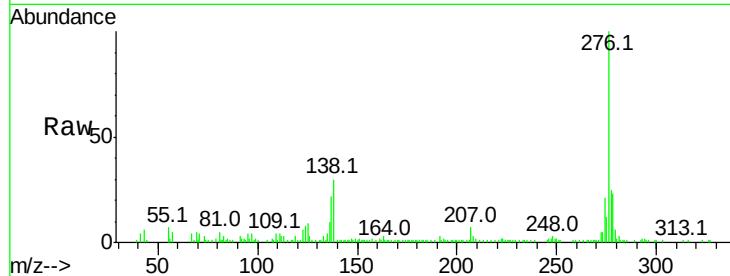
#90
Dibenzo(a,h)anthracene
Concen: 3.24 ng
RT: 21.69 min Scan# 3359
Delta R.T. -0.01 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8
279	27.3	19.3	28.9

Manual Integrations
APPROVED

mohammad
5/26/2017 1:26:51 PM



#91
Benzo(g,h,i)perylene
Concen: 12.79 ng
RT: 22.08 min Scan# 3425
Delta R.T. -0.00 min
Lab File: BF095443.D
Acq: 26 May 2017 1:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.6	28.0
138	30.2	25.4	38.0

