

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093782.D
 Acq On : 20 Mar 2017 23:32
 Operator : SJ/MA
 Sample : I2318-05 20X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-02

Manual Integrations
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 3/21/2017 2:45:42 PM

Quant Time: Mar 21 02:11:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 20 16:03:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	238099	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	913177	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	408064	20.00	ng	-0.01
63) Phenanthrene-d10	11.35	188	589379	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	347478	20.00	ng	-0.02
86) Perylene-d12	15.40	264	357459	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	80476	5.91	ng	-0.02
7) Phenol-d6	6.45	99	96833	5.76	ng	-0.03
23) Nitrobenzene-d5	7.38	82	53032	3.29	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	11117	3.52	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	120880	4.98	ng	-0.01
78) Terphenyl-d14	12.93	244	70181	4.12	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.15	128	5273120	124.41	ng	97
37) 2-Methylnaphthalene	8.84	142	1571330	56.79	ng	99
45) 1,1'-Biphenyl	9.29	154	478597	14.43	ng	96
48) Acenaphthylene	9.74	152	1408155	34.03	ng	98
51) Acenaphthene	9.91	154	454765	18.40	ng	97
54) Dibenzofuran	10.08	168	507548m	15.26	ng	
57) Fluorene	10.42	166	1320002m	51.82	ng	
70) Phenanthrene	11.38	178	4072872m	129.76	ng	
71) Anthracene	11.43	178	1317485m	40.77	ng	
72) Carbazole	11.58	167	306736	9.59	ng	98
74) Fluoranthene	12.57	202	2438435	75.58	ng	97
77) Pvrene	12.80	202	2856986	98.80	ng	99
80) Benzo(a)anthracene	13.98	228	1140019m	52.38	ng	
82) Chrysene	14.01	228	935139	43.00	ng	96
85) Indeno(1,2,3-cd)pyrene	16.76	276	345342	19.39	ng	95
87) Benzo(b)fluoranthene	15.00	252	888897m	36.89	ng	
88) Benzo(k)fluoranthene	15.02	252	347197m	19.51	ng	
89) Benzo(a)pyrene	15.34	252	819123	41.92	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	100732	6.21	ng	# 88
91) Benzo(a,h,i)perylene	17.17	276	370063	22.98	ng	98

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

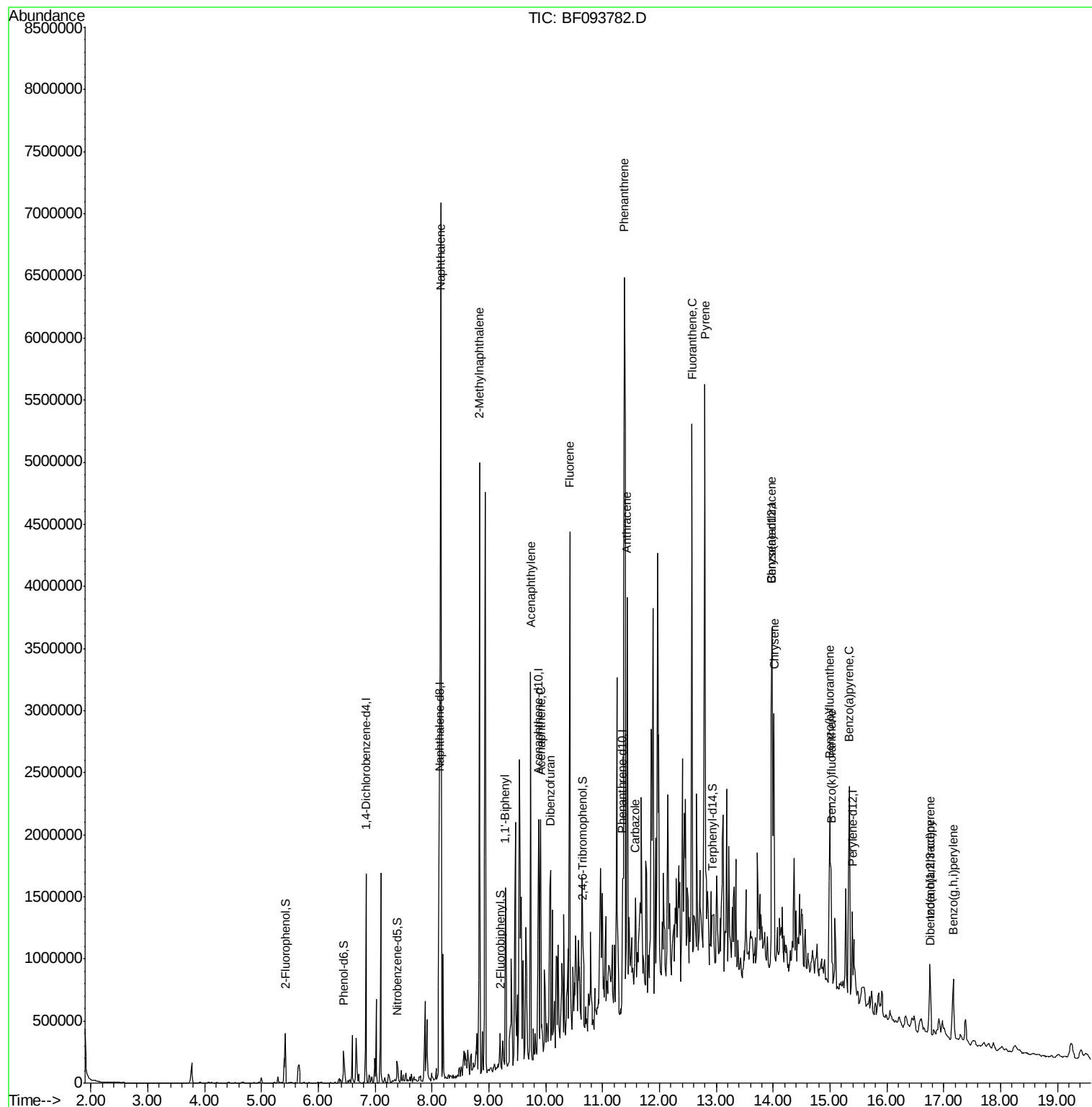
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
Data File : BF093782.D
Acq On : 20 Mar 2017 23:32
Operator : SJ/MA
Sample : I2318-05 20X
Misc :
ALS Vial : 17 Sample Multiplier: 1

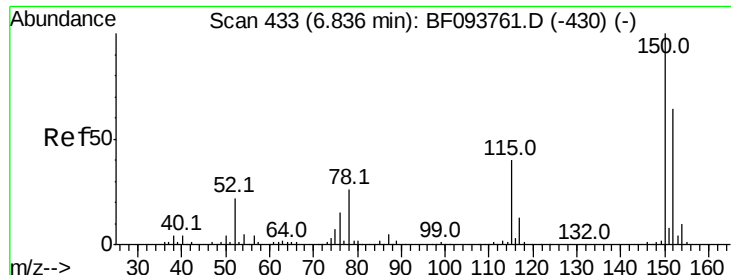
Instrument :
BNA_F
ClientSampled :
HP-CT-02

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Quant Time: Mar 21 02:11:11 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 20 16:03:59 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

ClientSampleId :

HP-CT-02

Tot Ion:152 Resp: 238099

Ion Ratio Lower Upper

152 100

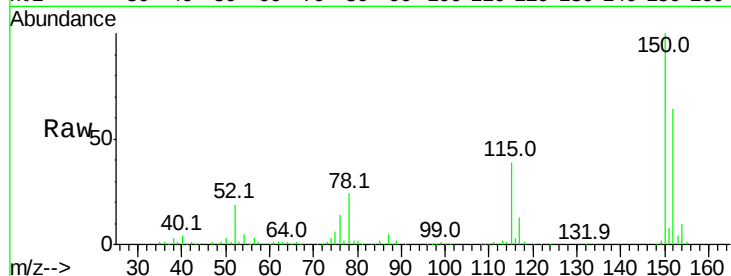
150 156.9 126.2 189.2

115 61.2 52.2 78.2

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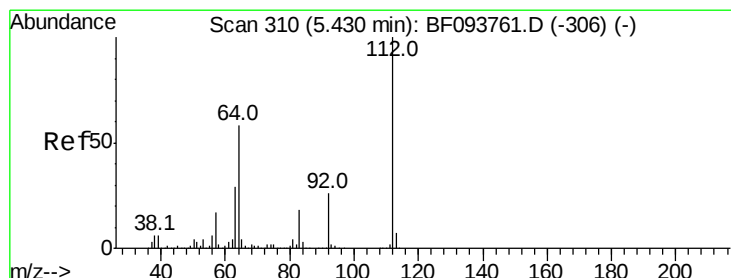
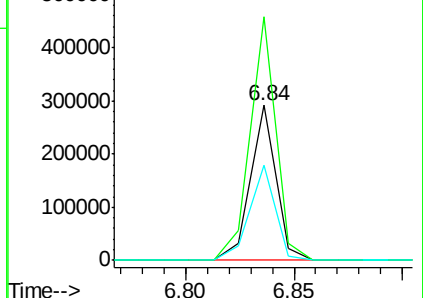
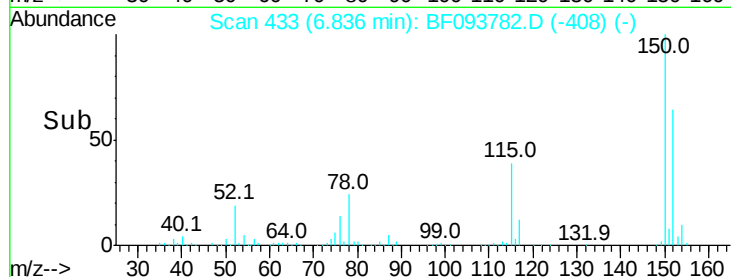
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 5.91 ng

RT: 5.42 min Scan# 309

Delta R.T. -0.02 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

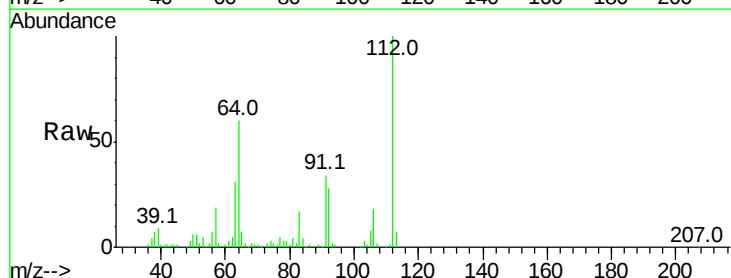
Tgt Ion:112 Resp: 80476

Ion Ratio Lower Upper

112 100

64 60.4 46.0 69.0

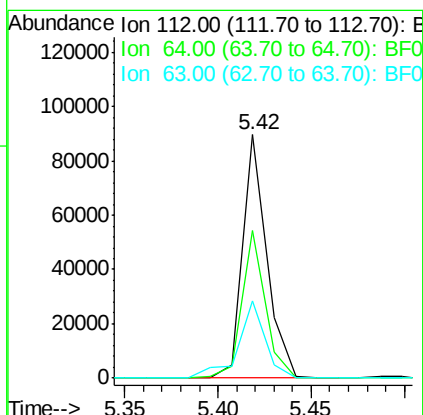
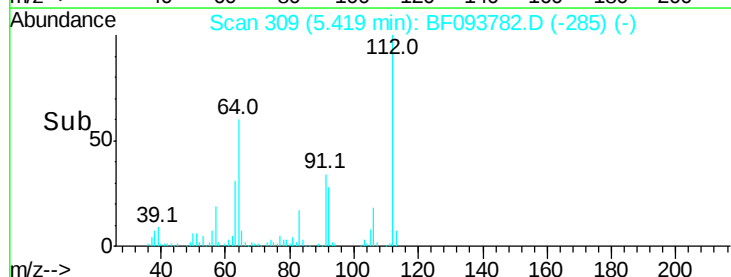
63 31.5 23.4 35.0

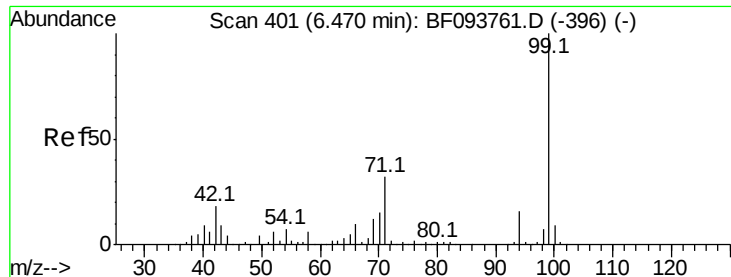


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 5.76 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

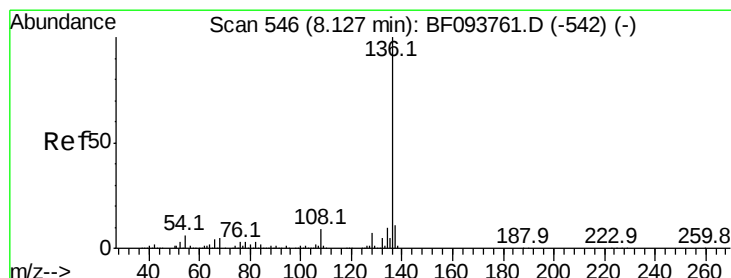
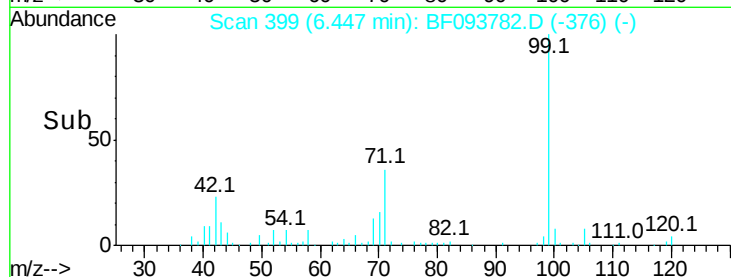
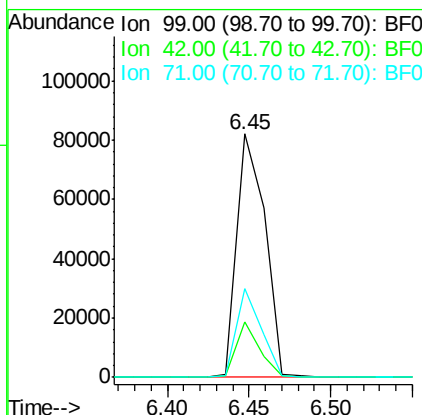
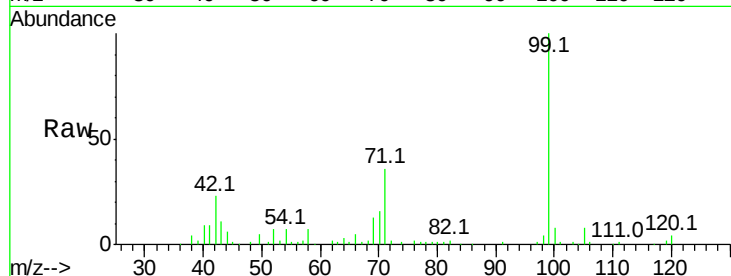
ClientSampleId :

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Tot Ion:	99	Resp:	96833
Ion Ratio	Lower	Upper	
99	100		
42	22.8	13.5	20.3#
71	36.3	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

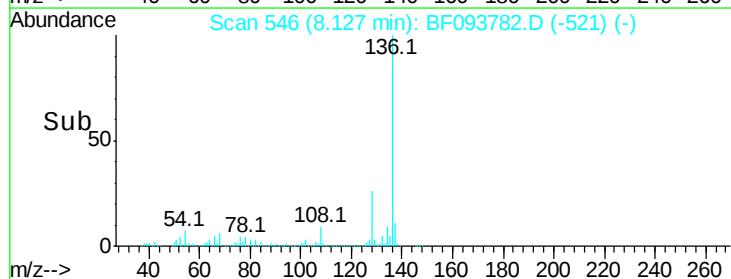
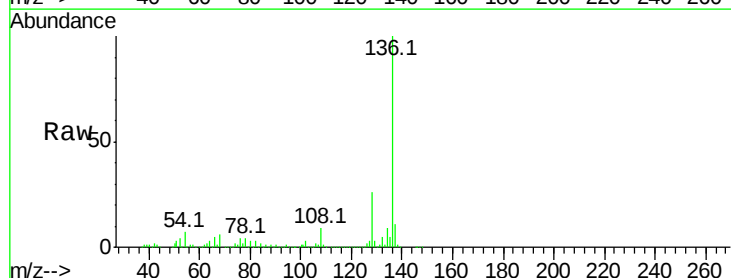
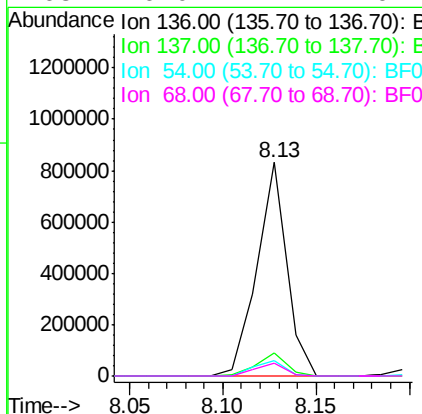
RT: 8.13 min Scan# 546

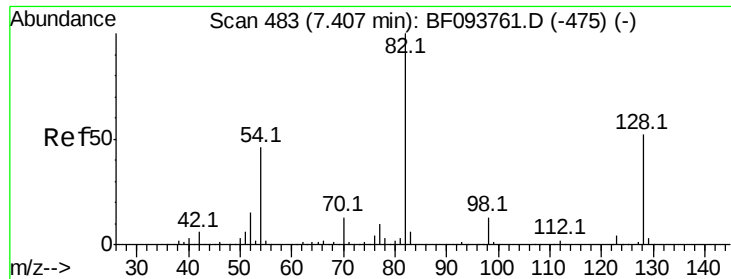
Delta R.T. -0.01 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Tgt Ion:	136	Resp:	913177
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.3	4.9	7.3#
68	6.0	4.1	6.1





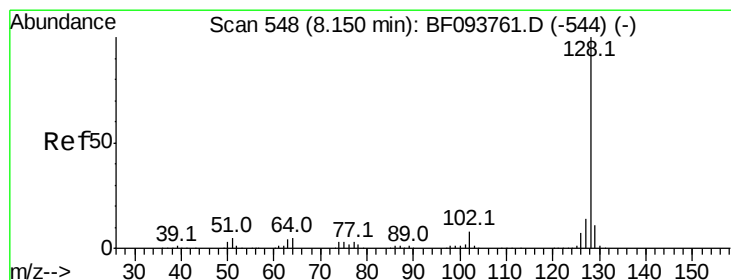
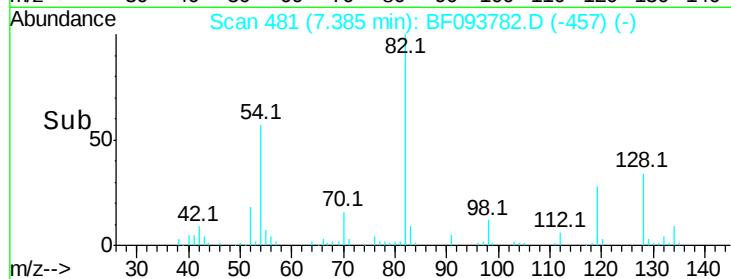
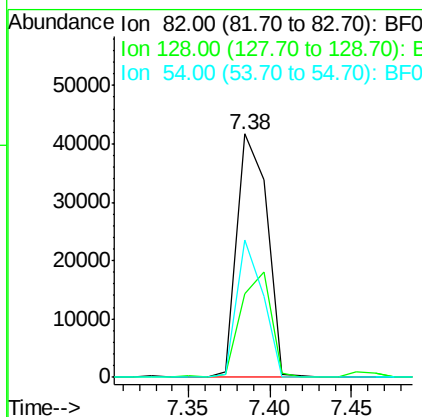
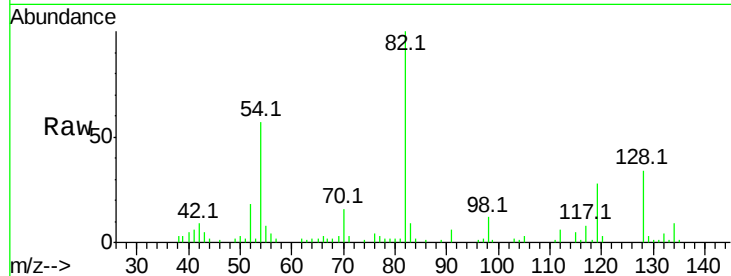
#23
Nitrobenzene-d5
Concen: 3.29 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.02 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Lower	Upper
82	100		
128	34.3	34.0	51.0
54	56.5	42.2	63.2

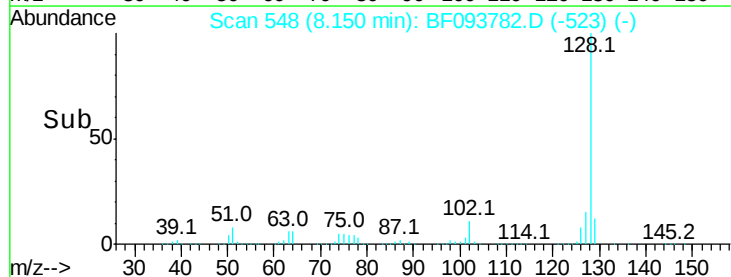
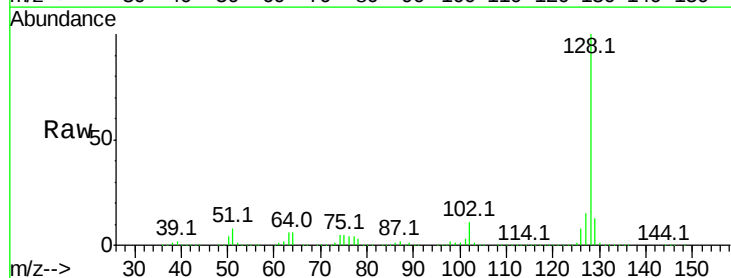
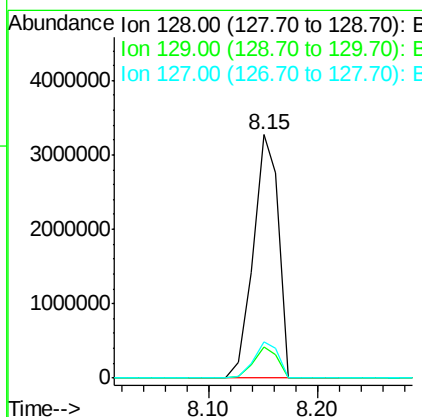
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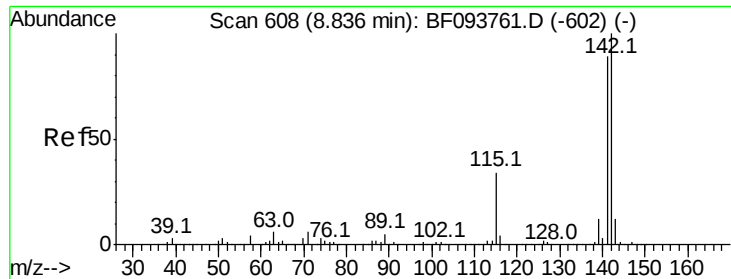
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#31
Naphthalene
Concen: 124.41 ng
RT: 8.15 min Scan# 548
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.0	13.6
127	14.8	10.8	16.2





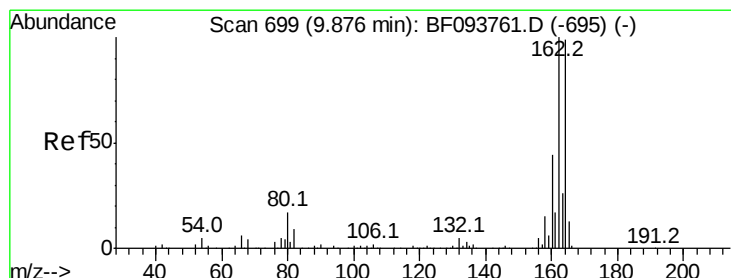
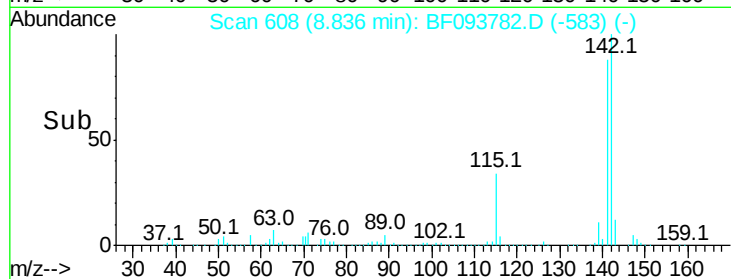
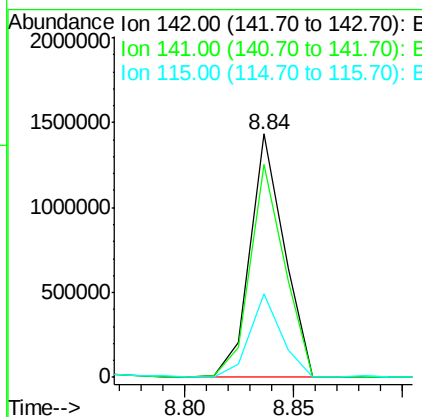
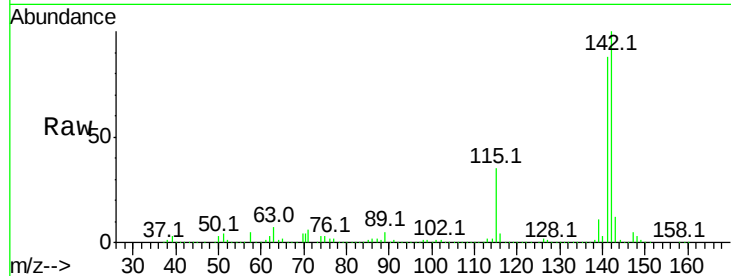
#37
2-Methylnaphthalene
Concen: 56.79 ng
RT: 8.84 min Scan# 608
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.3	106.9
115	34.5	27.1	40.7

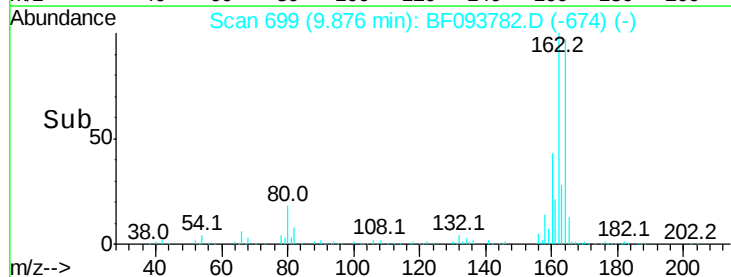
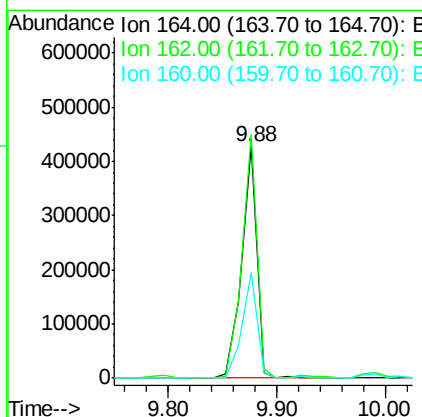
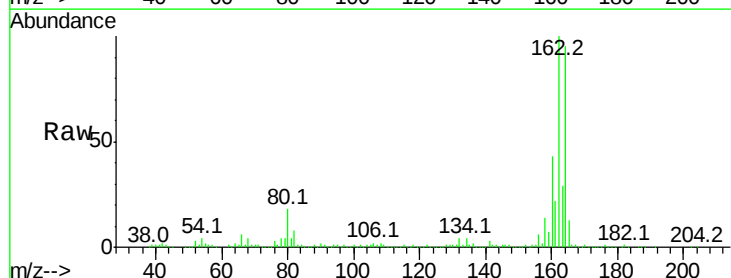
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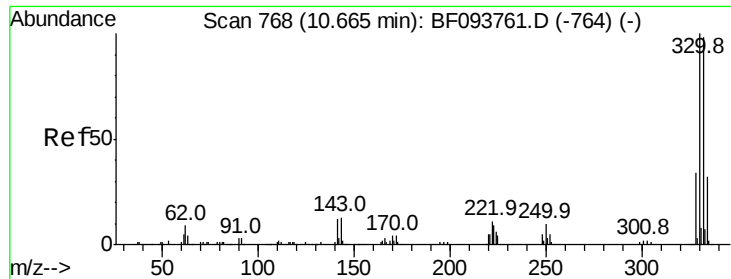
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.1	82.6	123.8
160	45.6	36.2	54.2





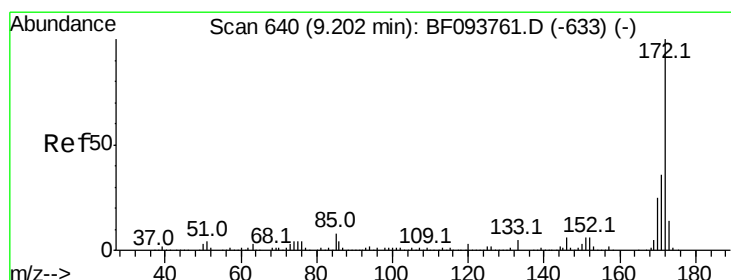
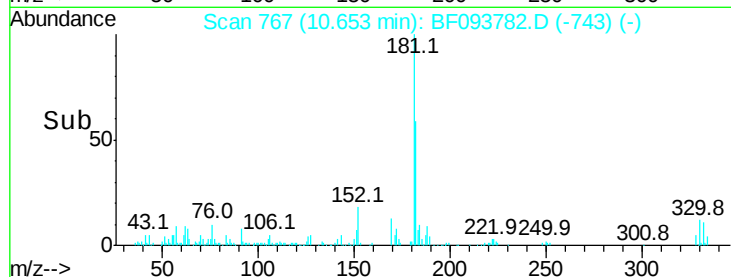
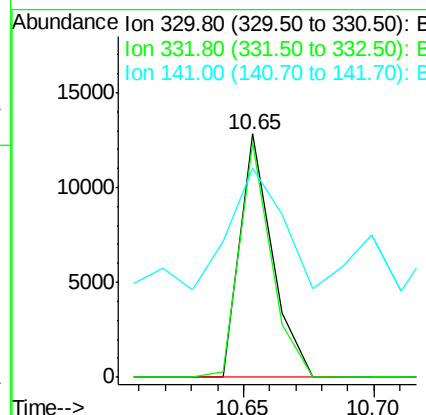
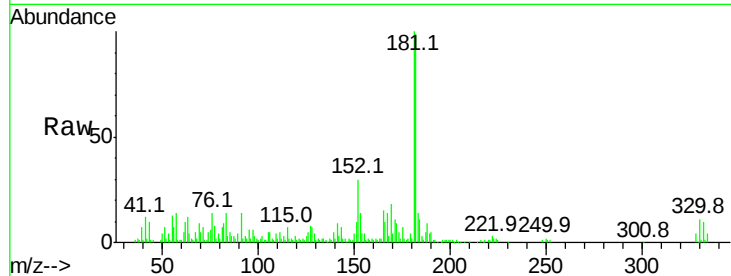
#41
 2,4,6-Tribromophenol
 Concen: 3.52 ng
 RT: 10.65 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.6	115.0
141	87.8	31.4	47.2#

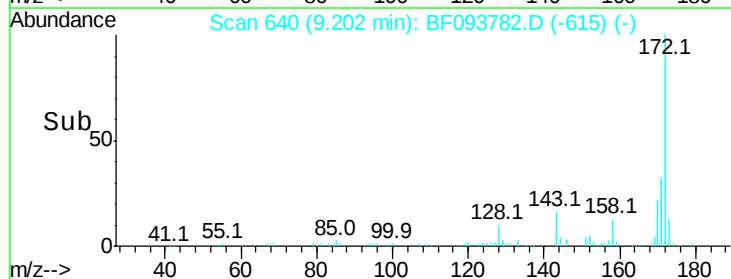
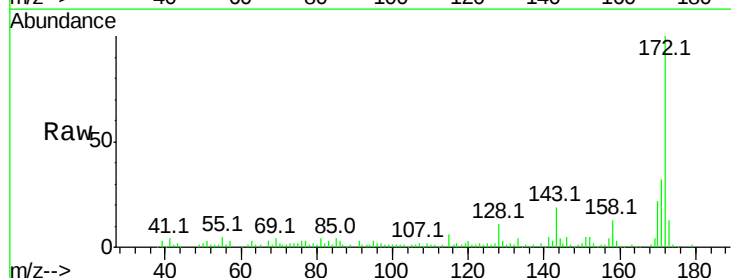
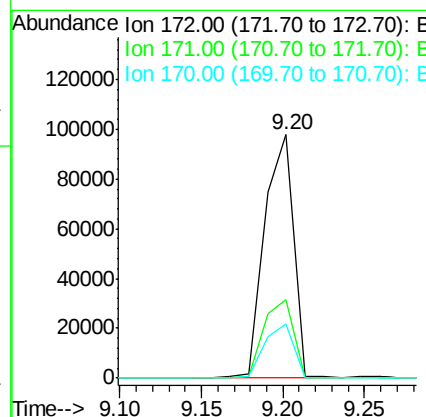
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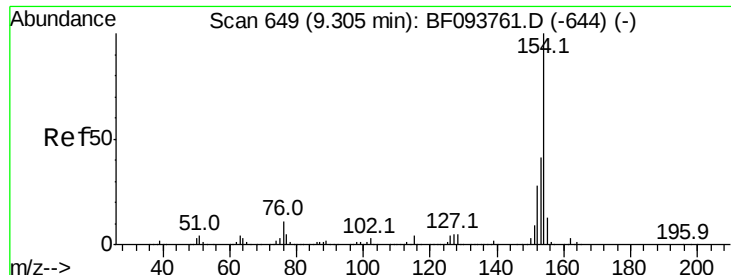
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#44
 2-Fluorobiphenyl
 Concen: 4.98 ng
 RT: 9.20 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.1	29.6	44.4
170	22.2	19.8	29.8





#45

1,1'-Biphenyl

Concen: 14.43 ng

RT: 9.29 min Scan# 648

Delta R.T. -0.02 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

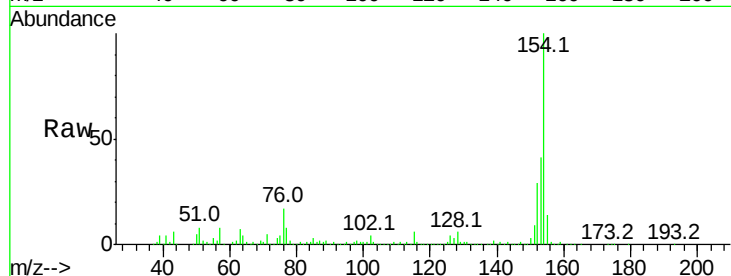
ClientSampleId :

HP-CT-02

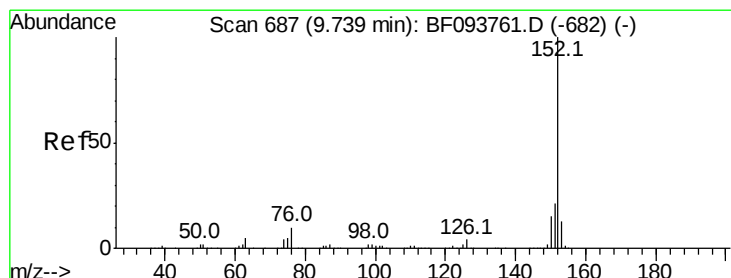
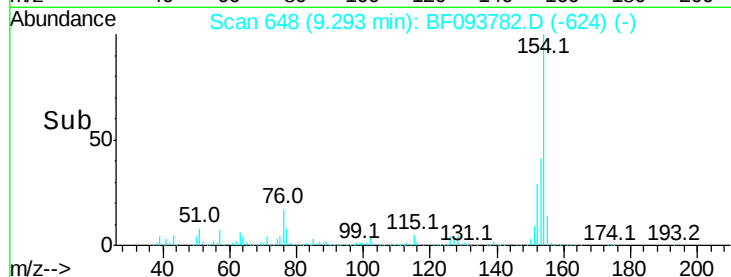
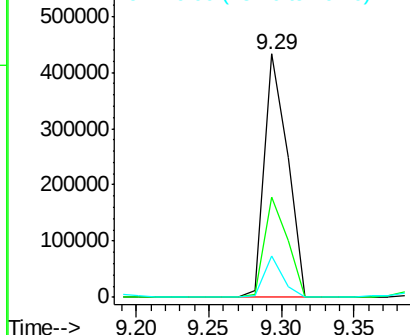
Tot Ion:	154	Resp:	478597
Ion Ratio	Lower	Upper	
154	100		
153	41.3	21.2	61.2
76	17.1	0.0	29.9

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 34.03 ng

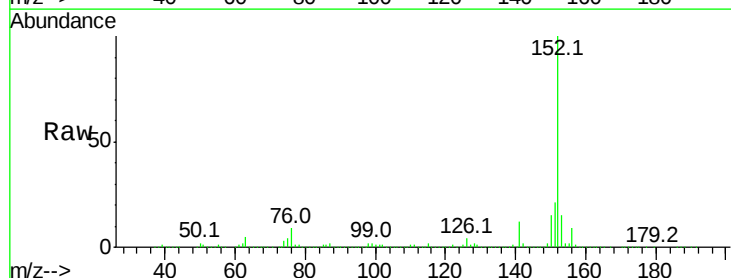
RT: 9.74 min Scan# 687

Delta R.T. -0.01 min

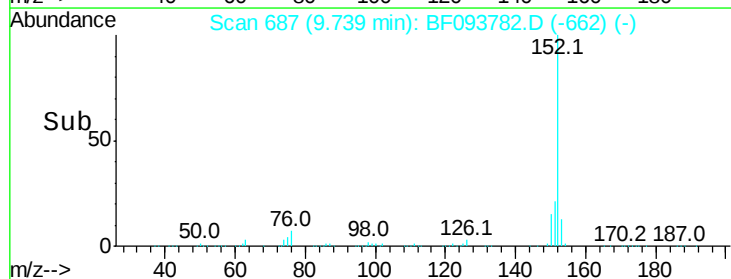
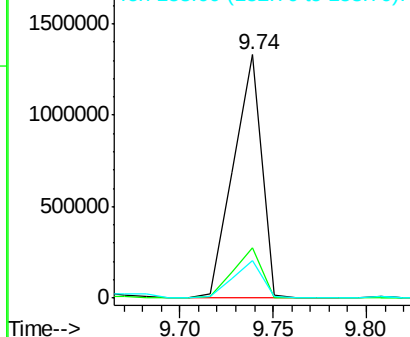
Lab File: BF093782.D

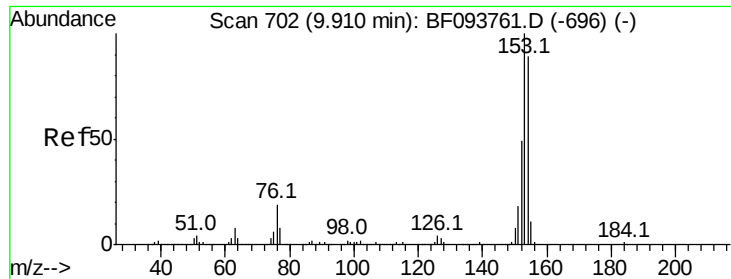
Acq: 20 Mar 2017 23:32

Tgt Ion:	152	Resp:	1408155
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.8	25.2
153	15.2	10.8	16.2



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: 18.40 ng

RT: 9.91 min Scan# 702

Delta R.T. -0.01 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

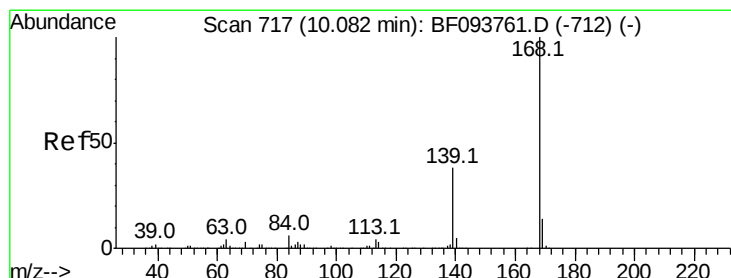
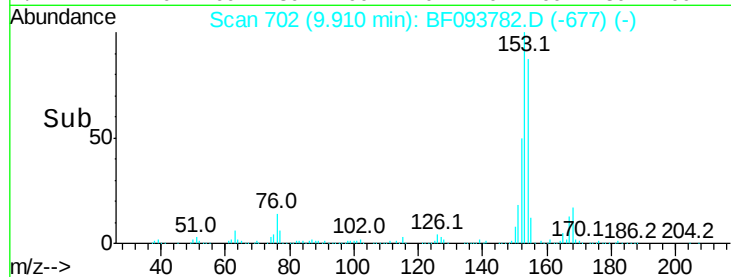
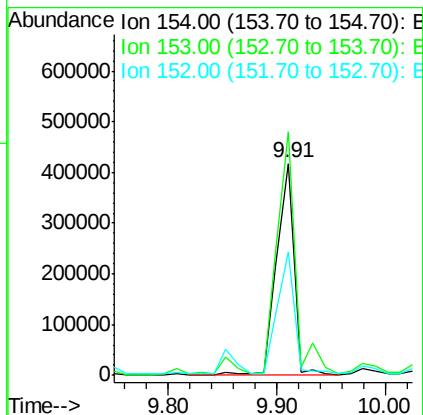
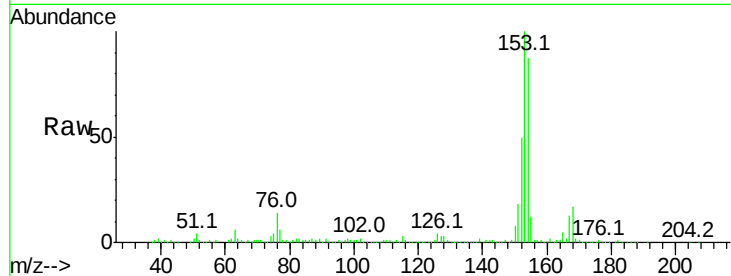
ClientSampleId :

HP-CT-02

Tot Ion:	154	Resp:	454765
Ion Ratio	Lower	Upper	
154	100		
153	114.8	90.5	135.7
152	57.9	43.6	65.4

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#54

Dibenzofuran

Concen: 15.26 ng m

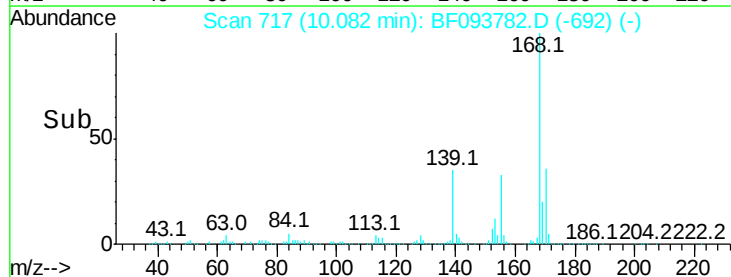
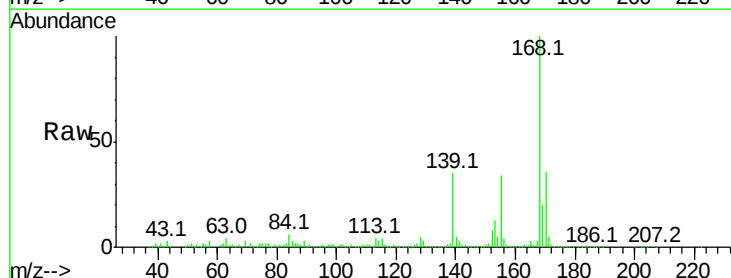
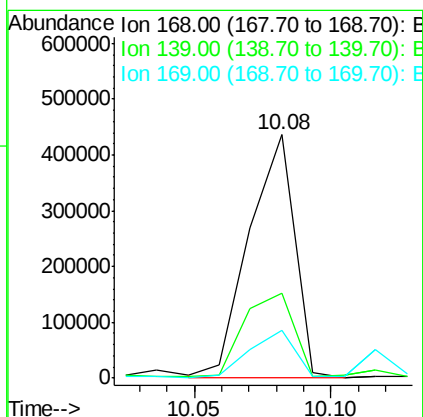
RT: 10.08 min Scan# 717

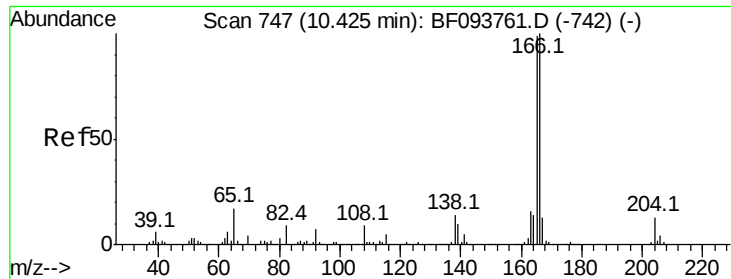
Delta R.T. -0.01 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Tgt Ion:	168	Resp:	507548
Ion Ratio	Lower	Upper	
168	100		
139	34.7	30.6	45.8
169	19.8	10.8	16.2#





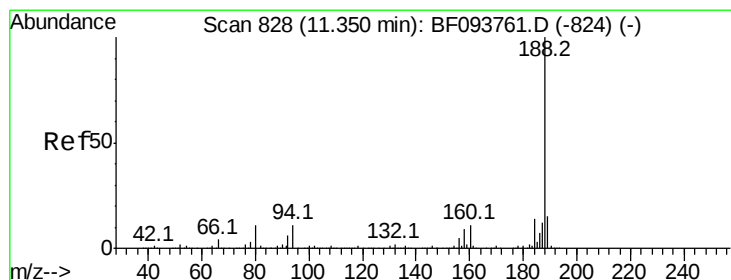
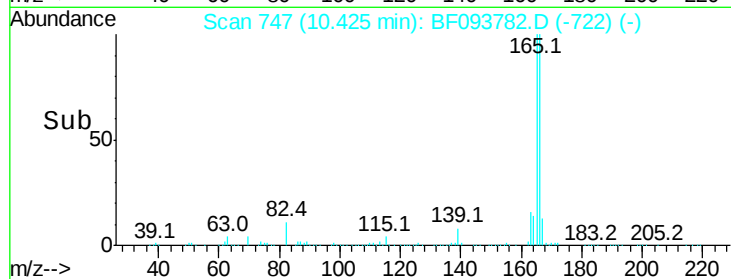
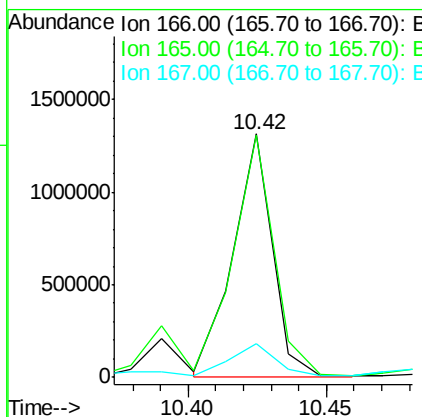
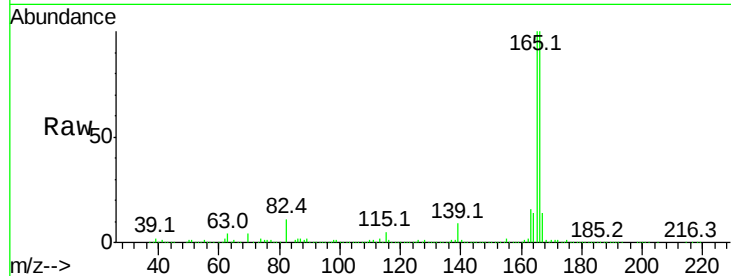
#57
Fluorene
 Concen: 51.82 ng/ml
 RT: 10.42 min Scan# 747
 Delta R.T. -0.01 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-02

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	78.8	118.2
167	13.6	10.6	16.0

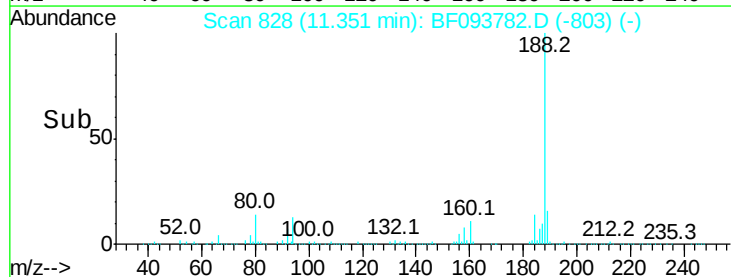
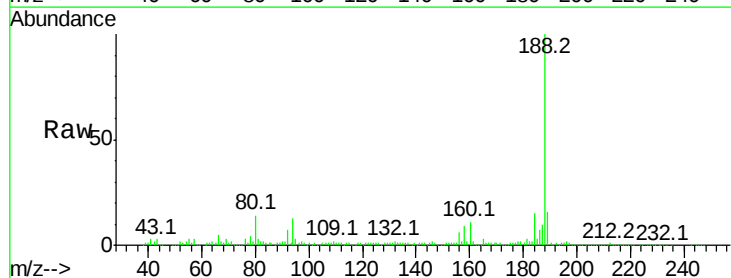
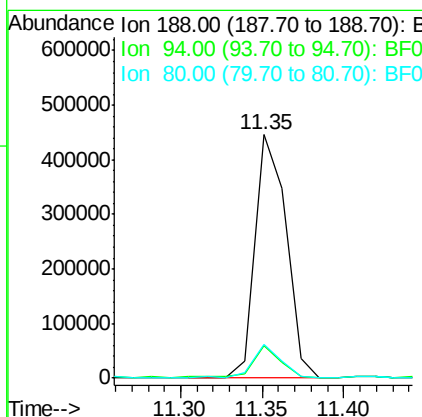
Manual Integrations
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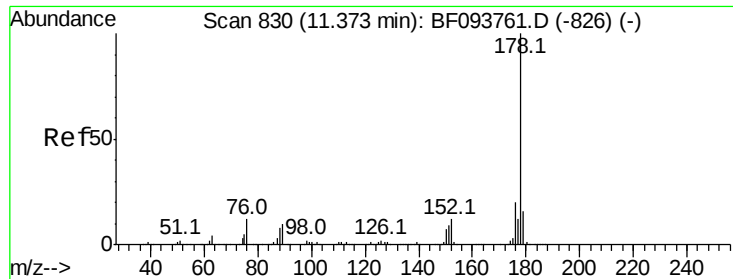
mohammad
 3/21/2017 2:45:42 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng/ml
 RT: 11.35 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	13.2	9.4	14.2
80	14.1	10.2	15.2





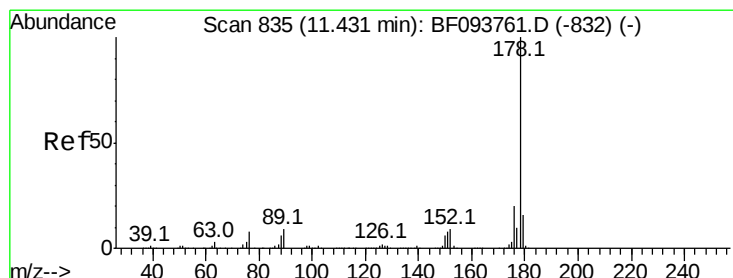
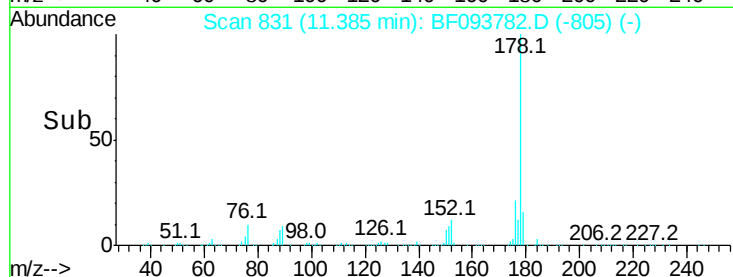
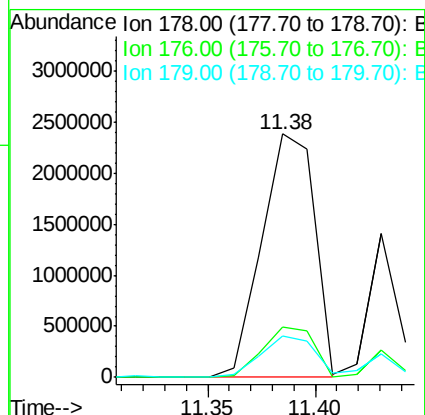
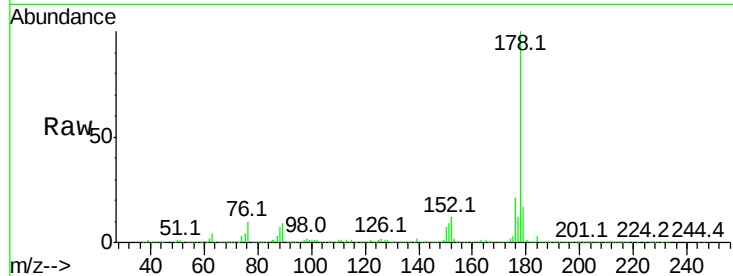
#70
Phenanthrene
Concen: 129.76 ng m
RT: 11.38 min Scan# 831
Delta R.T. 0.00 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion:178 Resp: 4072872
Ion Ratio Lower Upper
178 100
176 20.7 16.2 24.4
179 16.8 12.6 19.0

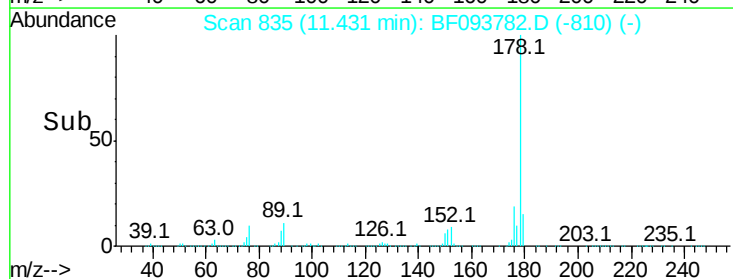
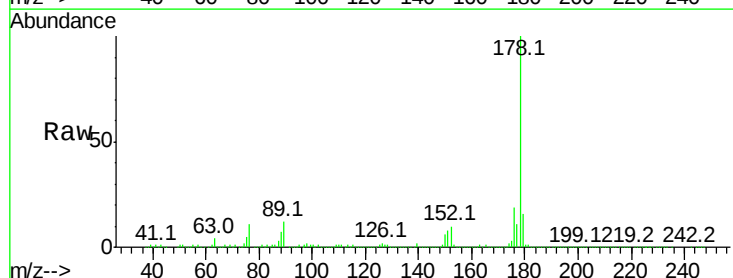
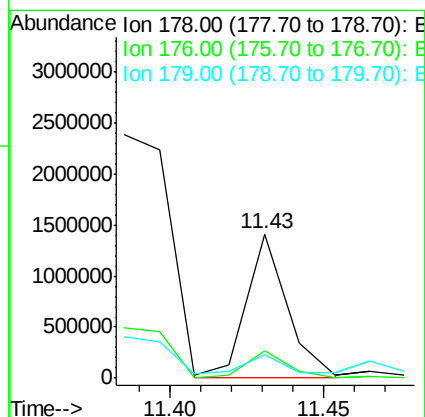
Manual Integrations
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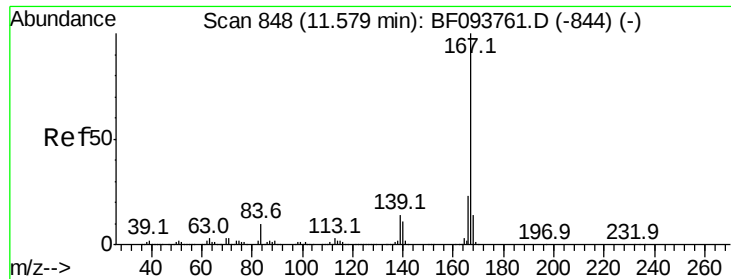
mohammad
3/21/2017 2:45:42 PM



#71
Anthracene
Concen: 40.77 ng m
RT: 11.43 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion:178 Resp: 1317485
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 16.3 12.7 19.1





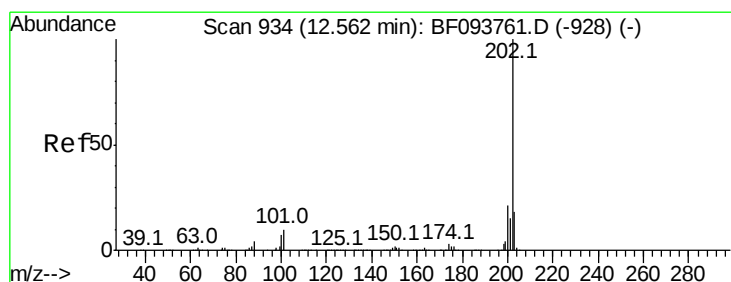
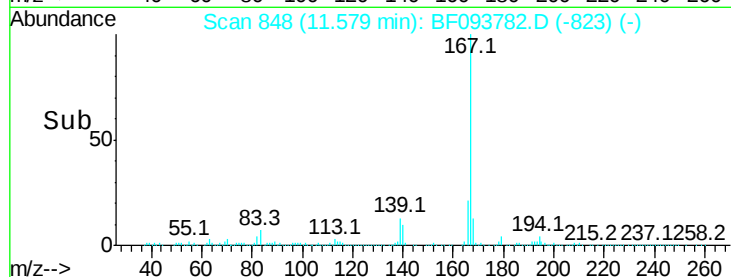
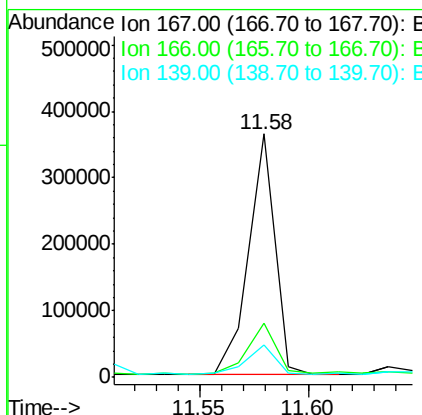
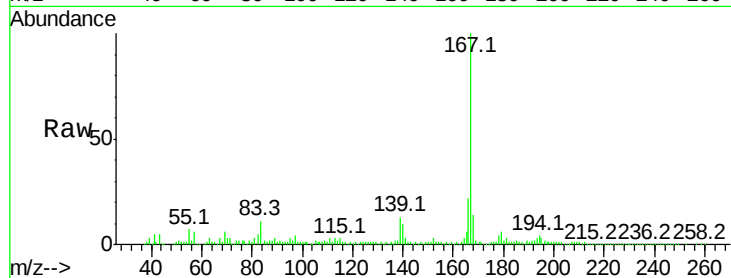
#72
 Carbazole
 Concen: 9.59 ng
 RT: 11.58 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Instrument :
 BNA_F
 ClientSampled :
 HP-CT-02

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	22.3	18.1	27.1	
139	13.5	11.7	17.5	

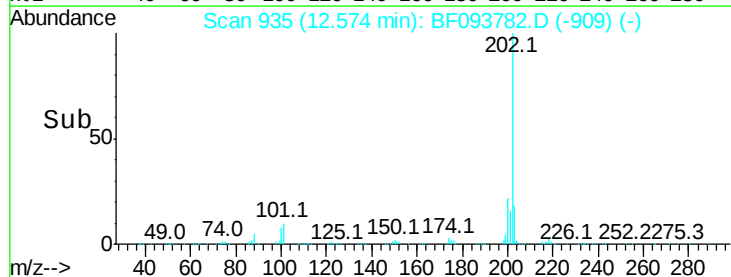
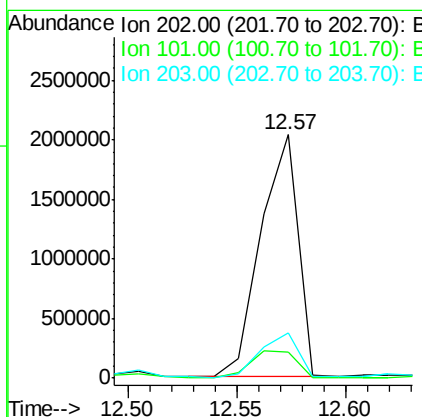
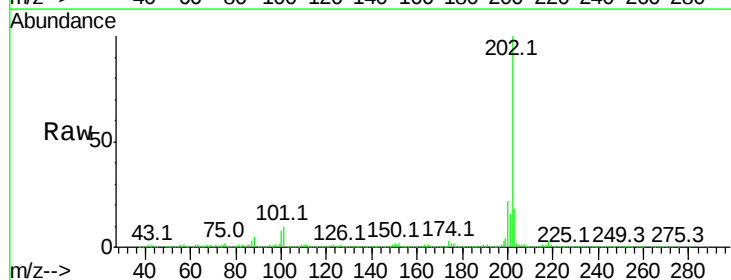
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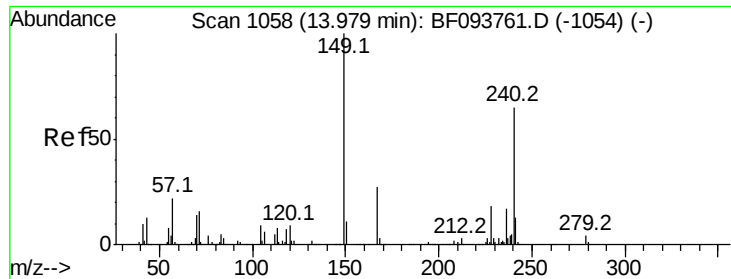
mohammad
 3/21/2017 2:45:42 PM



#74
 Fluoranthene
 Concen: 75.58 ng
 RT: 12.57 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: BF093782.D
 Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	10.5	0.0	33.2	
203	18.3	0.0	38.1	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 1058

Delta R.T. -0.02 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

ClientSampleId :

HP-CT-02

Tot Ion:240 Resp: 347478

Ion Ratio Lower Upper

240 100

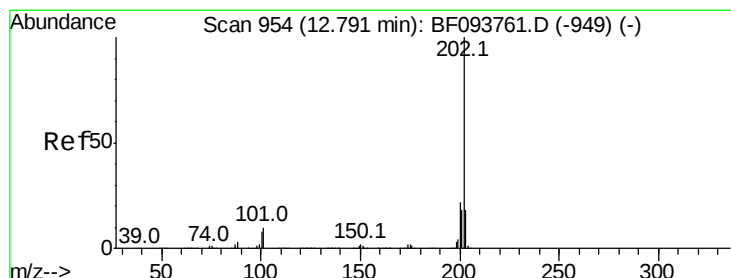
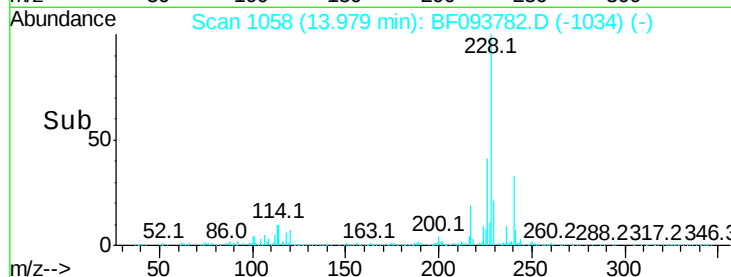
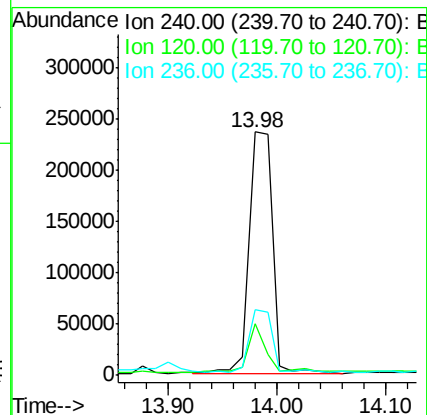
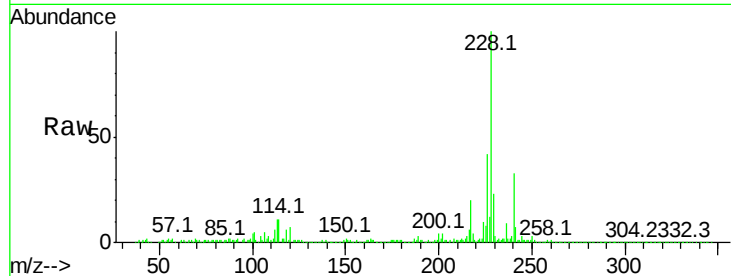
120 21.2 5.8 8.8#

236 27.2 20.5 30.7

Manual Integrations
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#77

Pyrene

Concen: 98.80 ng

RT: 12.80 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

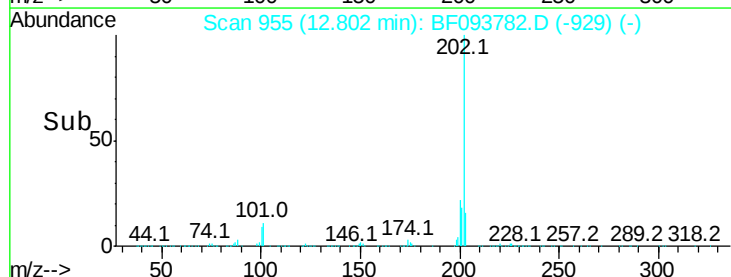
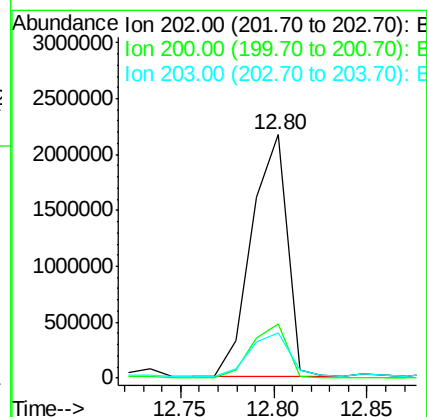
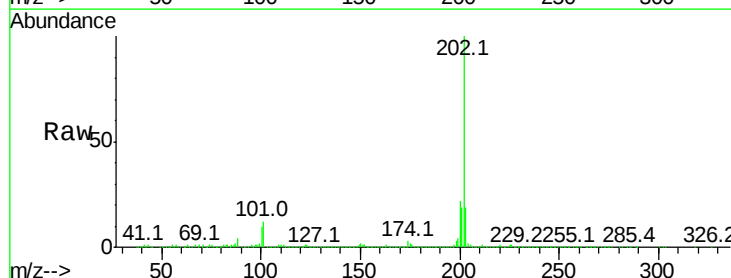
Tgt Ion:202 Resp: 2856986

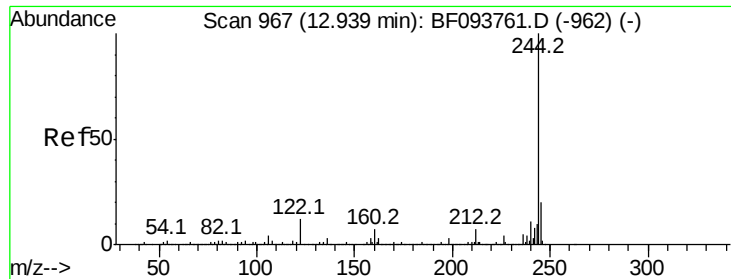
Ion Ratio Lower Upper

202 100

200 22.4 17.6 26.4

203 18.6 14.4 21.6





#78

Terphenyl-d14

Concen: 4.12 ng

RT: 12.93 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Instrument :

BNA_F

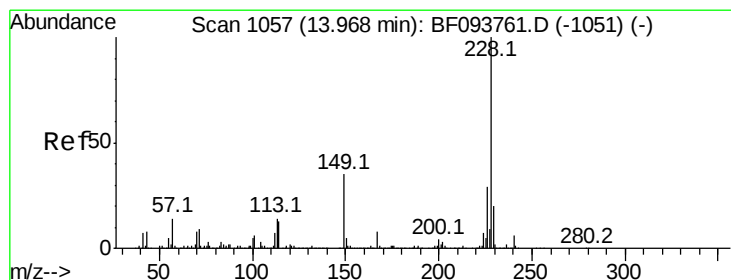
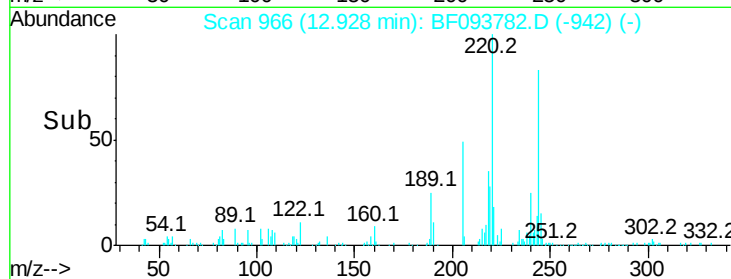
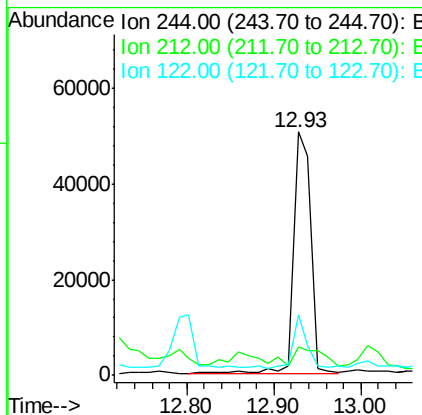
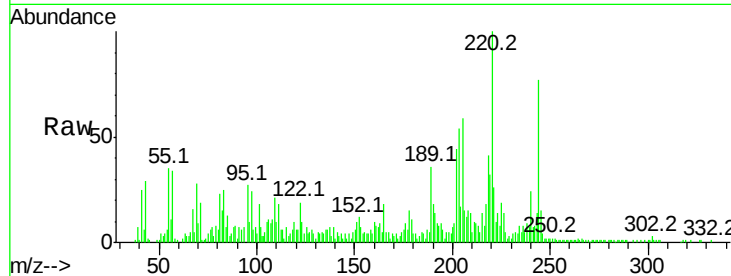
ClientSampleId :

HP-CT-02

Tot Ion	Ratio	Lower	Upper
244	100		
212	11.5	6.0	9.0#
122	24.8	10.3	15.5#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 52.38 ng m

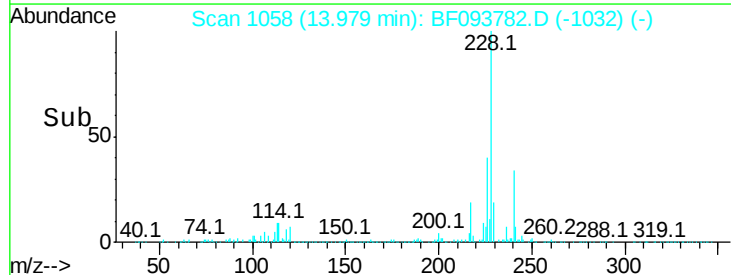
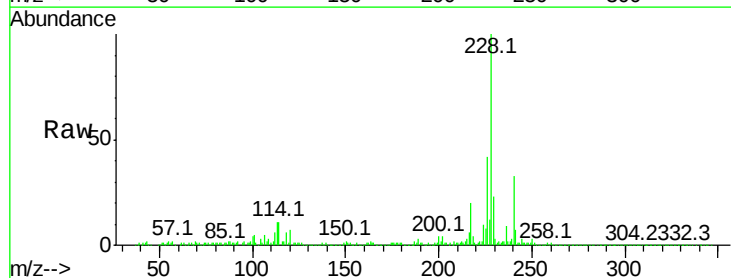
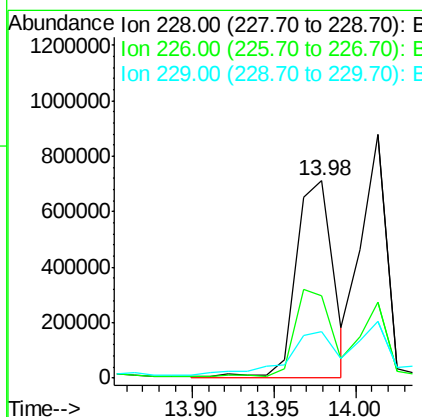
RT: 13.98 min Scan# 1058

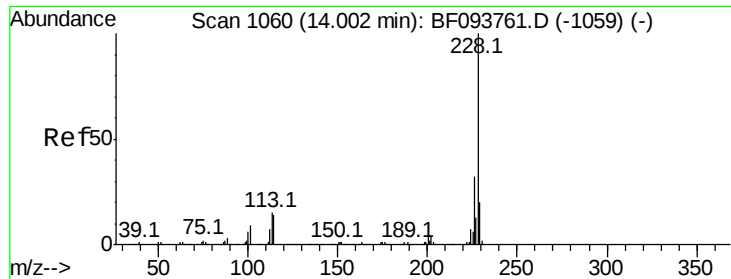
Delta R.T. 0.00 min

Lab File: BF093782.D

Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.0	22.6	33.8#
229	23.3	16.3	24.5





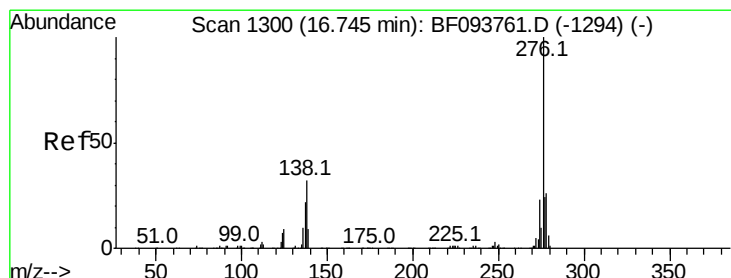
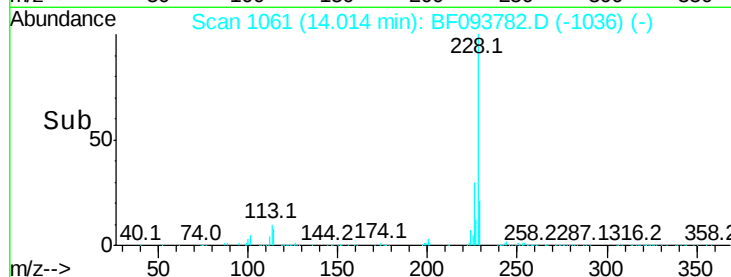
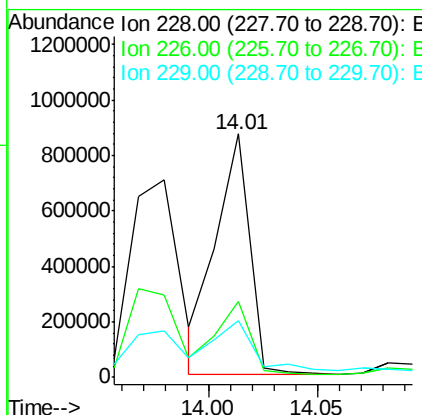
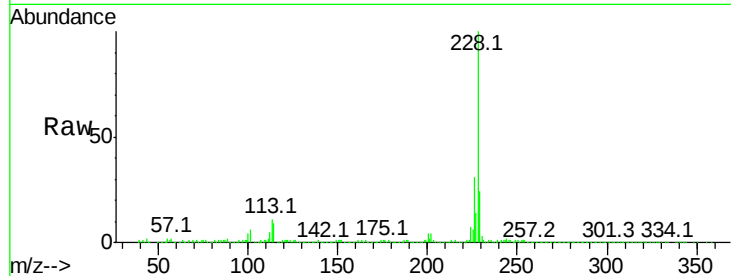
#82
Chrysene
Concen: 43.00 ng
RT: 14.01 min Scan# 1061
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Resp	Lower	Upper
228	100	935139		
226	31.4	24.9	37.3	
229	23.5	15.8	23.6	

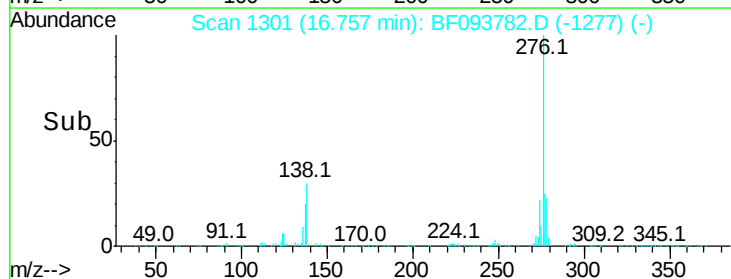
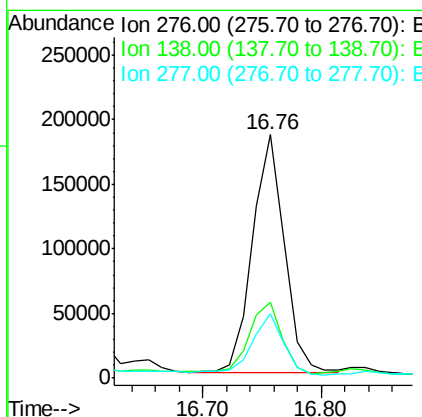
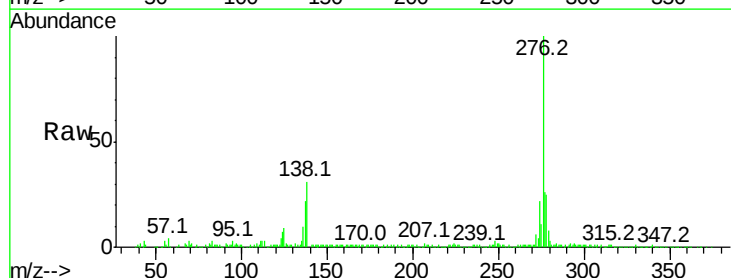
Manual Integrations
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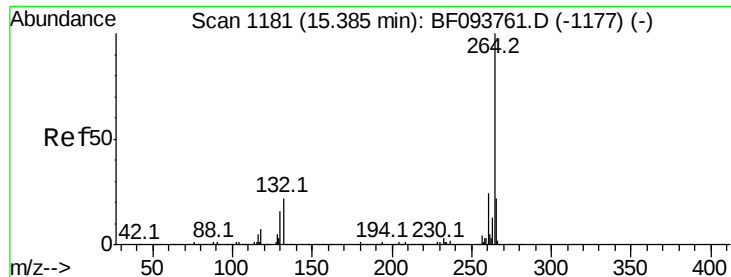
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 19.39 ng
RT: 16.76 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	345342		
138	30.2	27.8	41.6	
277	26.1	20.2	30.4	





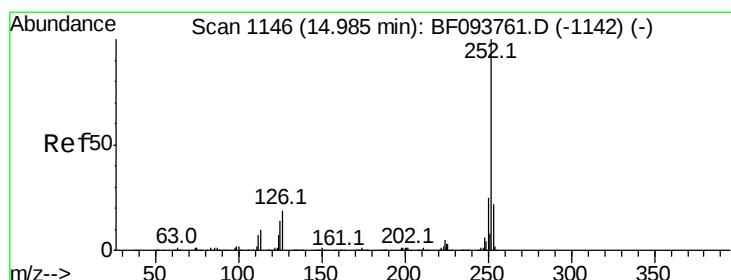
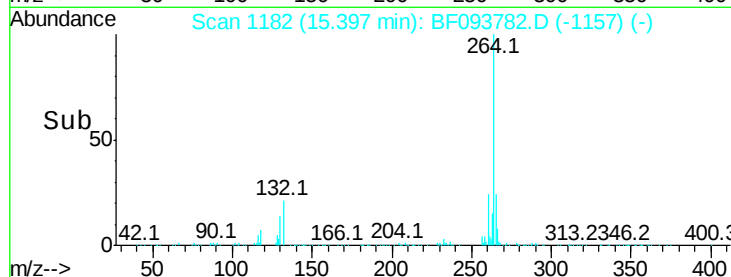
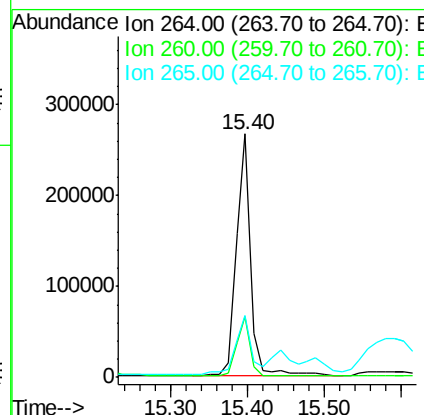
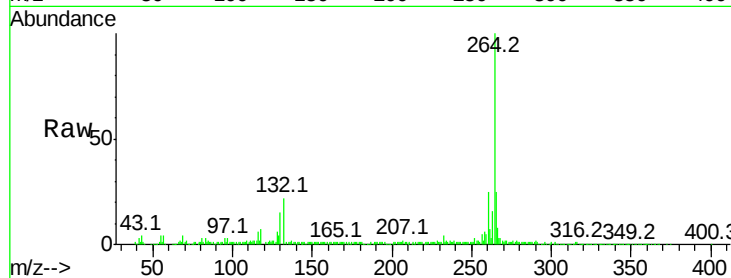
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	25.4	17.2	25.8

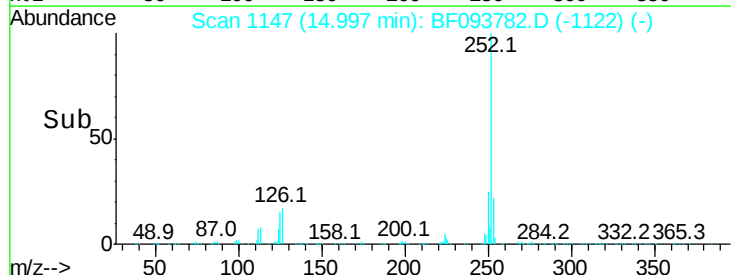
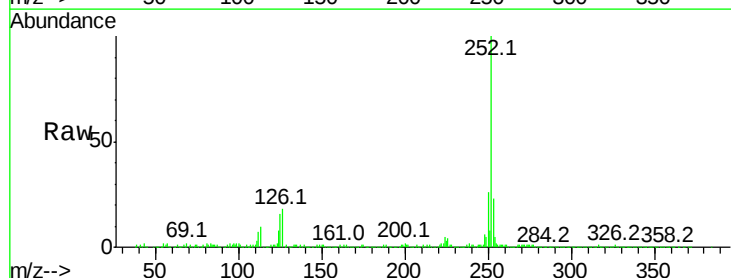
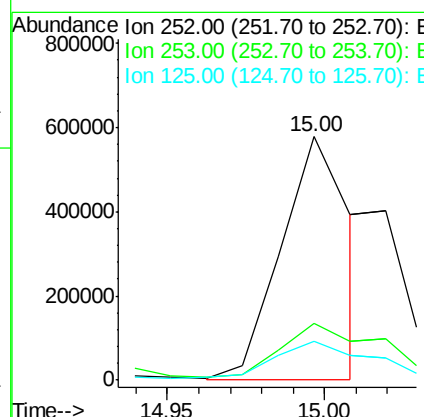
Manual Integrations
APPROVED

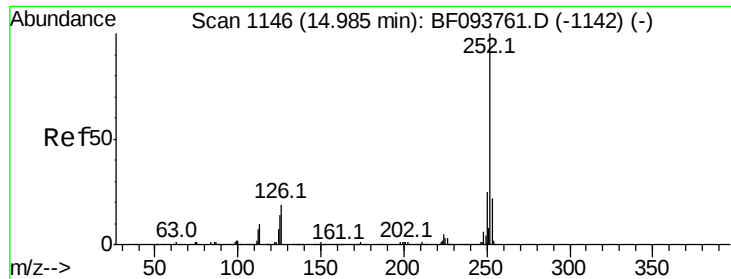
mohammad
3/21/2017 2:45:42 PM



#87
Benzo(b)fluoranthene
Concen: 36.89 ng m
RT: 15.00 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	16.2	9.8	14.8





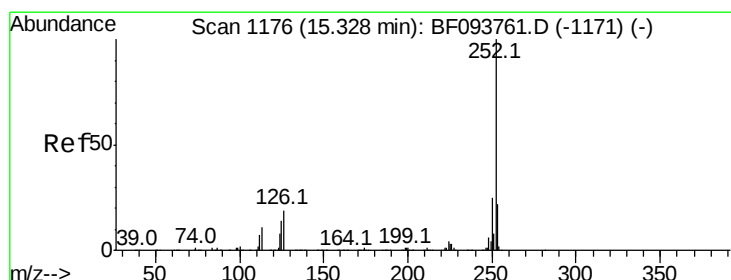
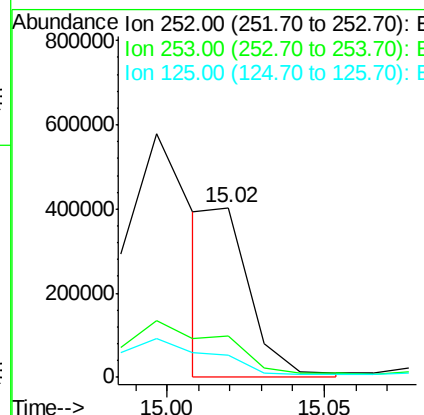
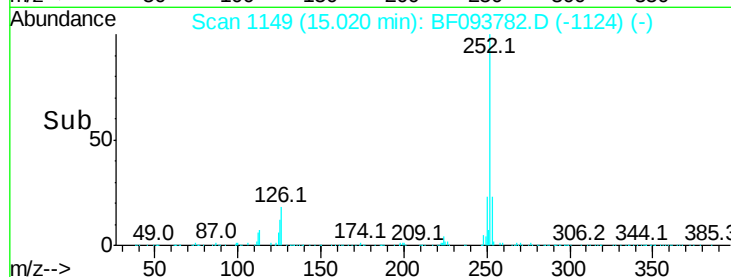
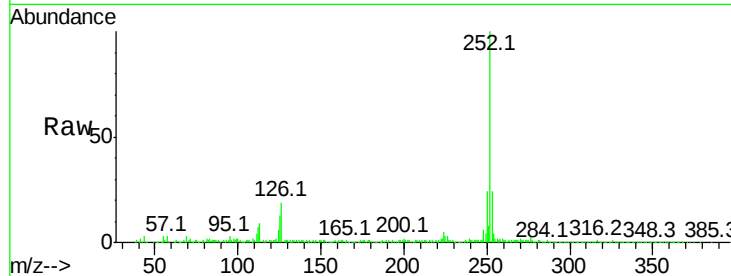
#88
Benzo(k)fluoranthene
Concen: 19.51 ng m
RT: 15.02 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	13.1	13.1	19.7

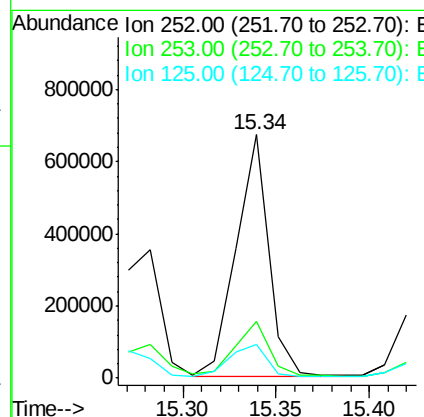
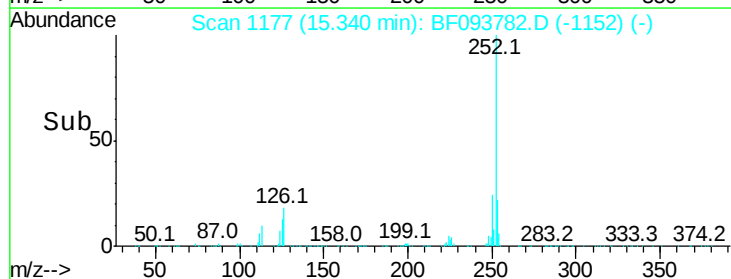
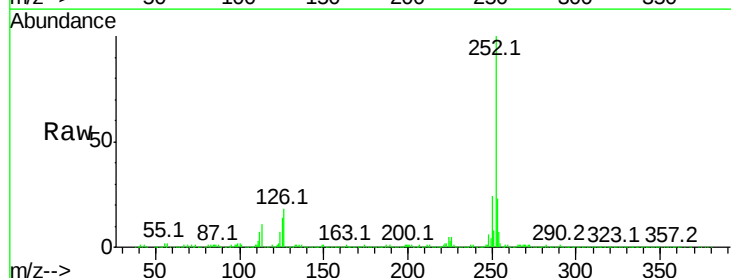
Manual Integrations
APPROVED

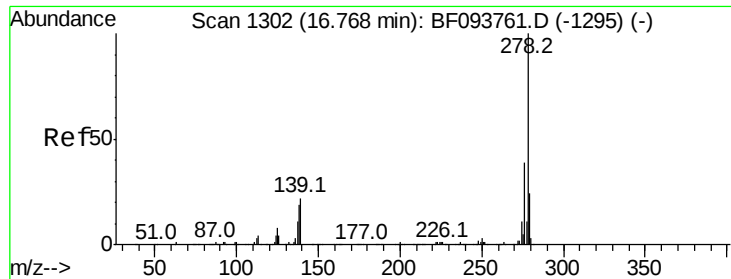
mohammad
3/21/2017 2:45:42 PM



#89
Benzo(a)pyrene
Concen: 41.92 ng
RT: 15.34 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	13.9	11.0	16.4





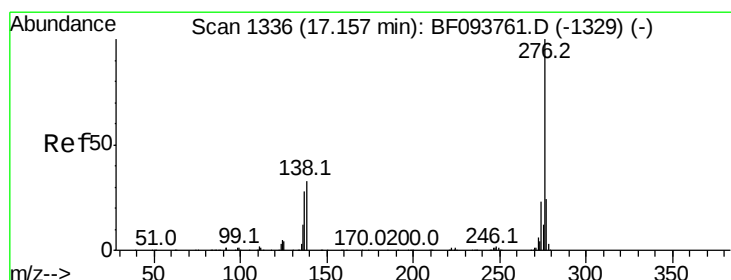
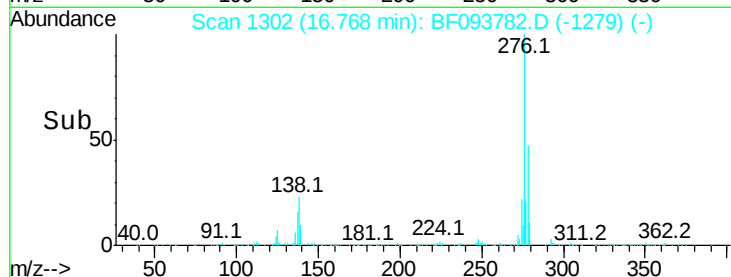
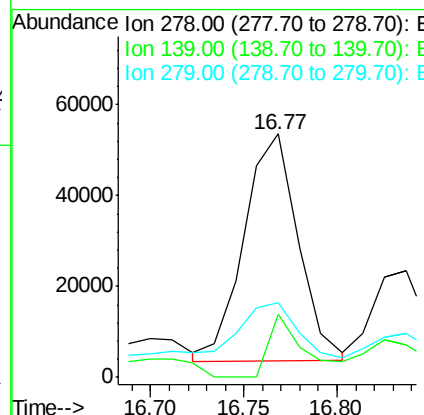
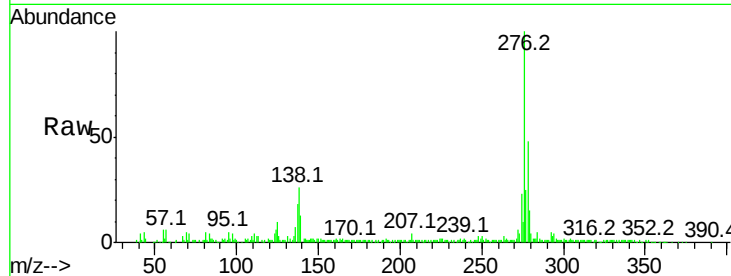
#90
Dibenzo(a,h)anthracene
Concen: 6.21 ng
RT: 16.77 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Instrument :
BNA_F
ClientSampleId :
HP-CT-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.2	16.6	24.8#
279	30.5	19.3	28.9#

Manual Integrations
APPROVED

mohammad
3/21/2017 2:45:42 PM



#91
Benzo(g,h,i)perylene
Concen: 22.98 ng
RT: 17.17 min Scan# 1337
Delta R.T. -0.02 min
Lab File: BF093782.D
Acq: 20 Mar 2017 23:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.6	28.0
138	31.0	25.4	38.0

