

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094130.D
 Acq On : 3 Apr 2017 19:32
 Operator : SJ/MA
 Sample : I2501-04 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Manual Integrations
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Quant Time: Apr 04 01:55:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	200319	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	782628	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	336117	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	508338	20.00	ng	-0.01
75) Chrysene-d12	14.63	240	270735	20.00	ng	0.00
86) Perylene-d12	16.26	264	342545	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	609808	51.42	ng	-0.02
7) Phenol-d6	5.49	99	763033	52.01	ng	-0.02
23) Nitrobenzene-d5	6.53	82	451295	32.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	127223	47.90	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	701130	31.82	ng	-0.02
78) Terphenyl-d14	13.34	244	340283	28.17	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	7.42	128	1493733	39.69	ng	99
37) 2-Methylnaphthalene	8.26	142	459502	18.32	ng	97
45) 1,1'-Biphenyl	8.83	154	148511	5.48	ng	96
48) Acenaphthylene	9.36	152	113421	3.22	ng	# 94
49) Dimethylphthalate	9.21	163	83019	3.47	ng	98
51) Acenaphthene	9.57	154	996269	48.41	ng	99
54) Dibenzofuran	9.79	168	930059	33.20	ng	99
57) Fluorene	10.21	166	970658	41.78	ng	99
70) Phenanthrene	11.42	178	6185220m	218.73	ng	
71) Anthracene	11.47	178	2246932m	77.17	ng	
72) Carbazole	11.66	167	776571	26.01	ng	98
74) Fluoranthene	12.89	202	6396292	220.90	ng	99
77) Pvrene	13.17	202	5343161	271.94	ng	98
80) Benzo(a)anthracene	14.62	228	3013169	190.86	ng	99
82) Chrysene	14.67	228	2426920m	165.65	ng	
85) Indeno(1,2,3-cd)pyrene	17.62	276	1292469	101.86	ng	94
87) Benzo(b)fluoranthene	15.87	252	3115930m	148.40	ng	
88) Benzo(k)fluoranthene	15.89	252	1017440m	49.52	ng	
89) Benzo(a)pvrene	16.22	252	2256514	116.70	ng	95
90) Dibenzo(a,h)anthracene	17.63	278	338804	20.69	ng	92
91) Benzo(q,h,i)perylene	18.02	276	1077645	65.30	ng	98

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

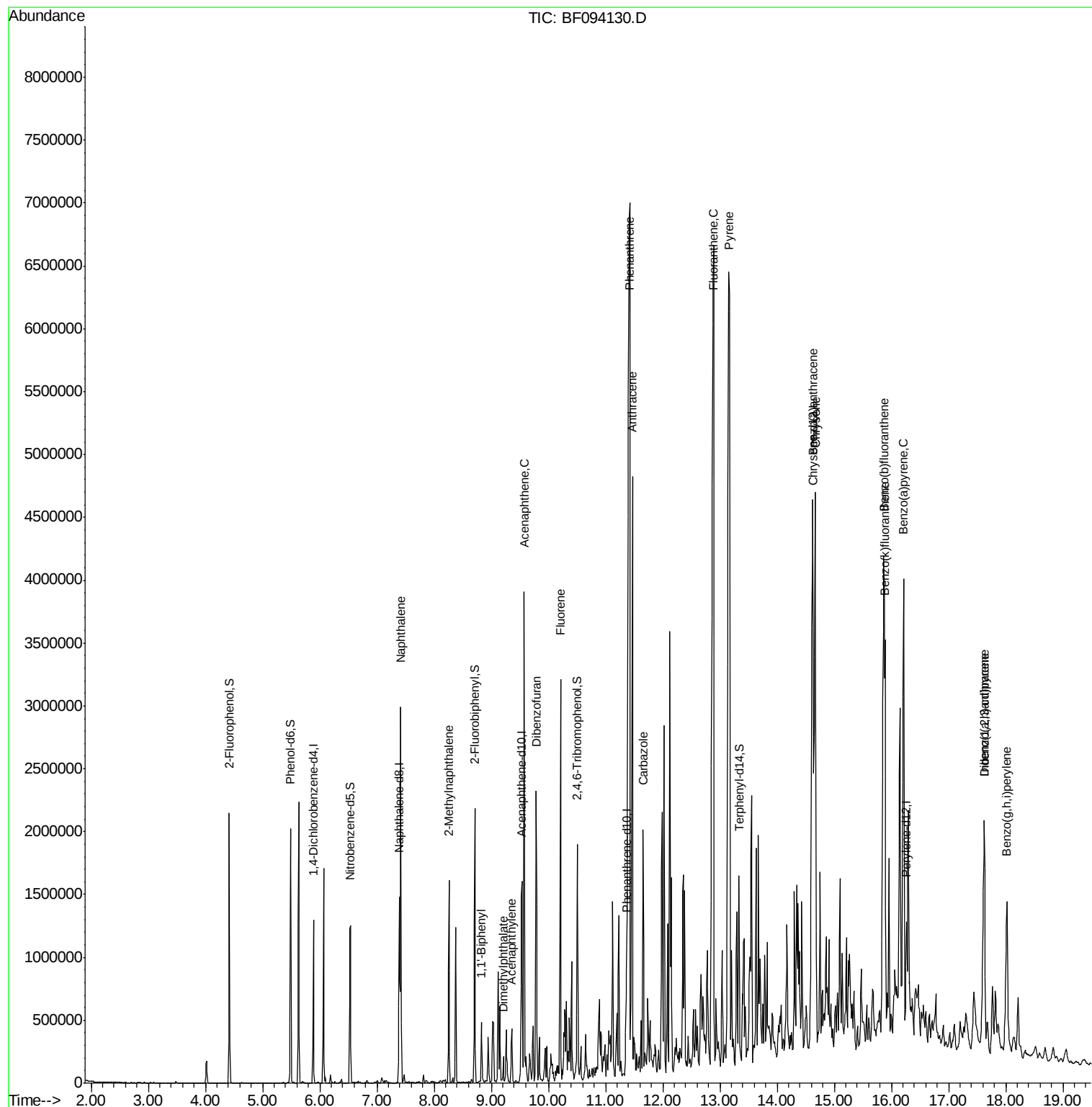
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
Data File : BF094130.D
Acq On : 3 Apr 2017 19:32
Operator : SJ/MA
Sample : I2501-04 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

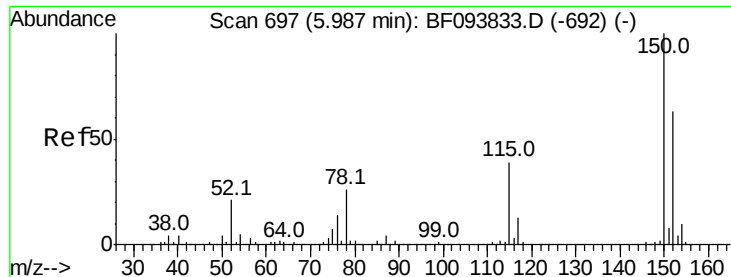
Instrument :
BNA_F
ClientSampled :
TP-4

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Quant Time: Apr 04 01:55:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 31 14:38:29 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.89 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

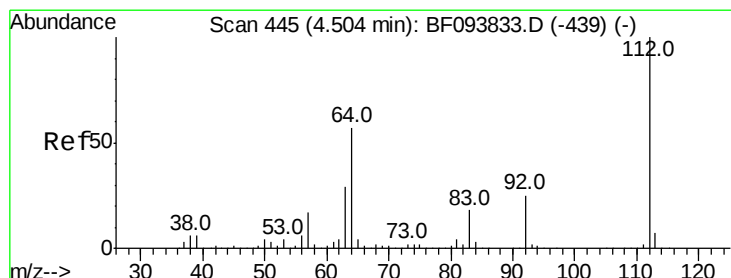
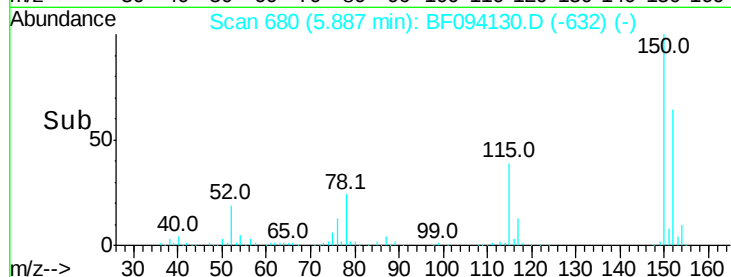
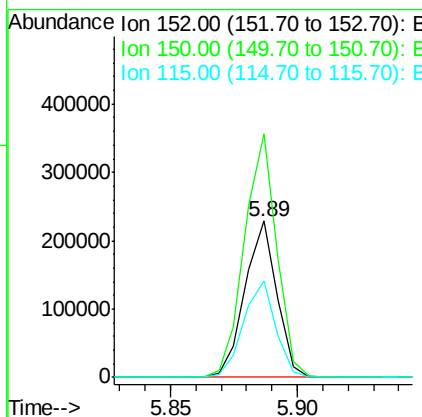
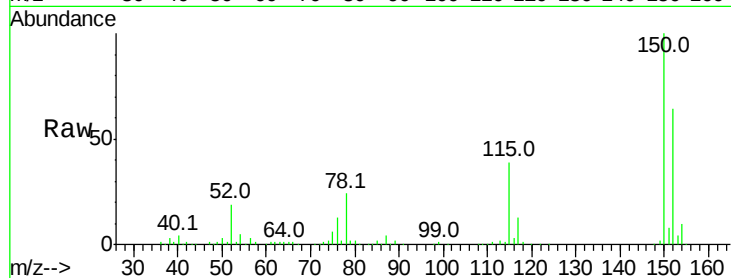
ClientSampleId :

TP-4

Tot Ion:	152	Resp:	200319
Ion Ratio	Lower	Upper	
152	100		
150	155.7	126.2	189.2
115	61.5	52.2	78.2

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#5

2-Fluorophenol

Concen: 51.42 ng

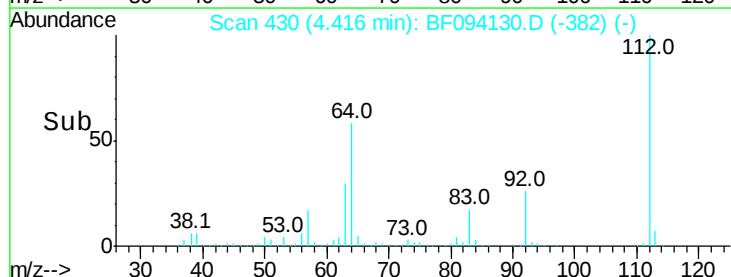
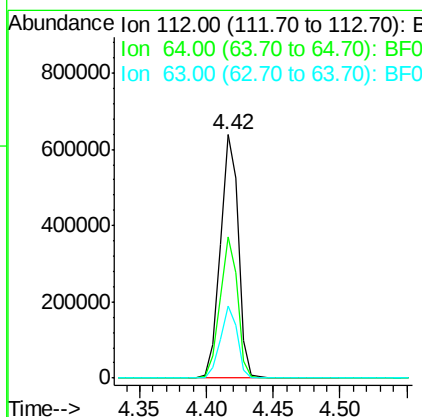
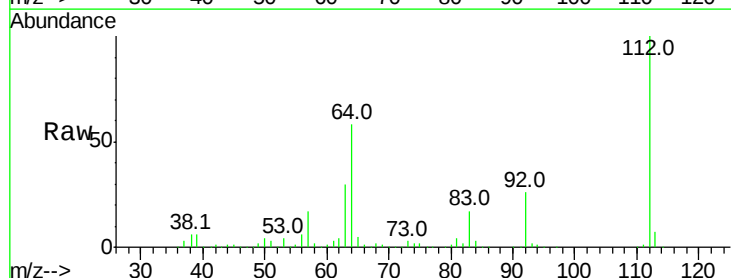
RT: 4.42 min Scan# 430

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Tgt Ion:	112	Resp:	609808
Ion Ratio	Lower	Upper	
112	100		
64	57.8	46.0	69.0
63	29.6	23.4	35.0





#7

Phenol-d6

Concen: 52.01 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

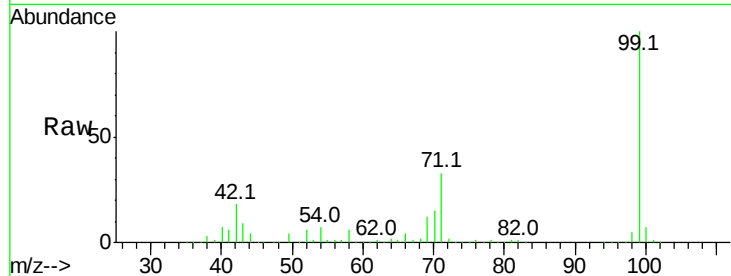
ClientSampled :

TP-4

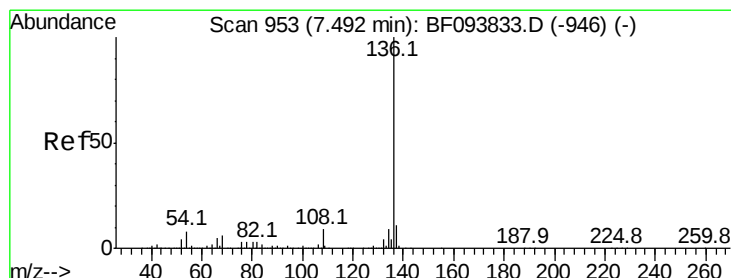
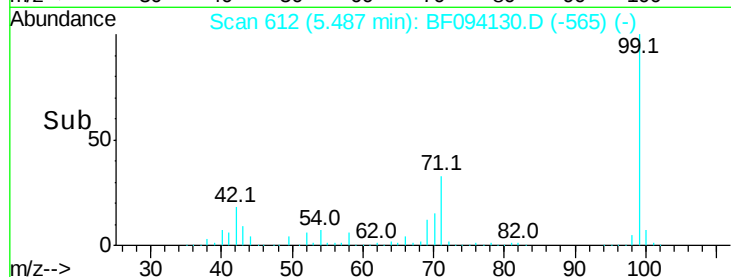
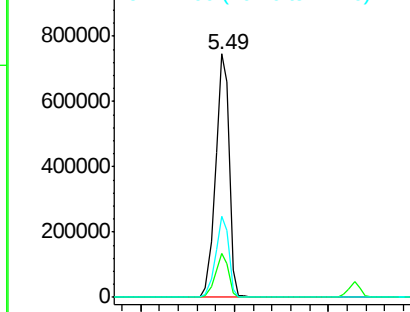
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		763033		
42	18.0	13.5	20.3		
71	33.4	24.5	36.7		

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

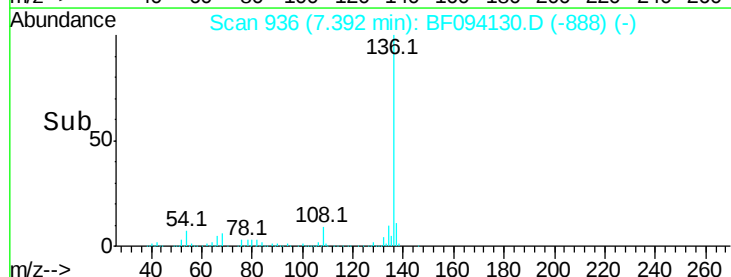
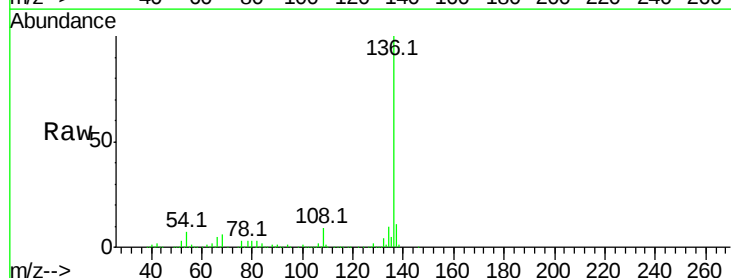
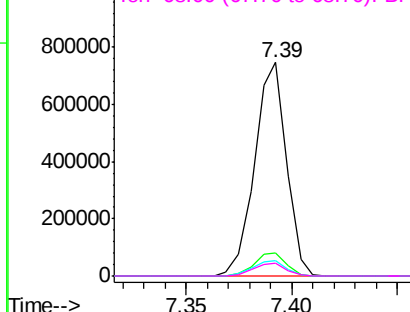
Delta R.T. -0.02 min

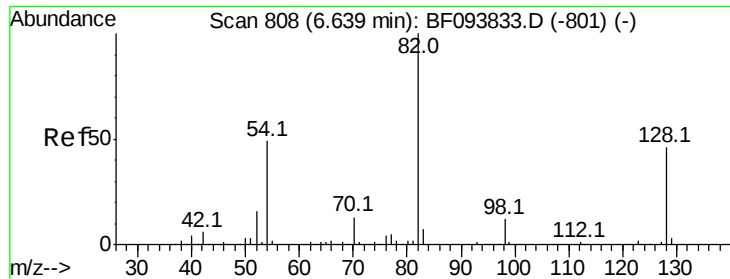
Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		782628		
137	10.7	8.5	12.7		
54	7.1	4.9	7.3		
68	5.7	4.1	6.1		

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





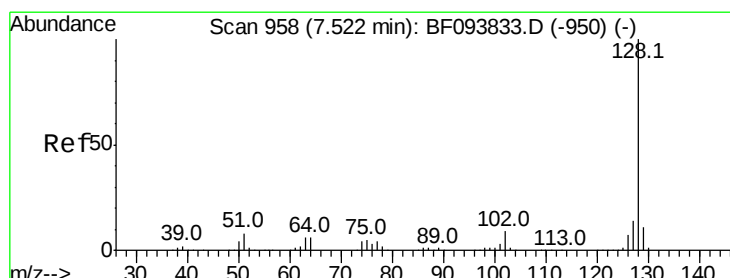
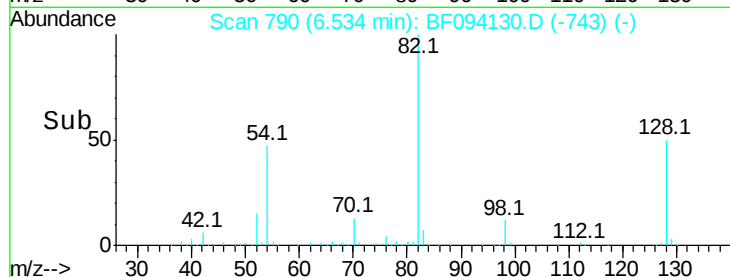
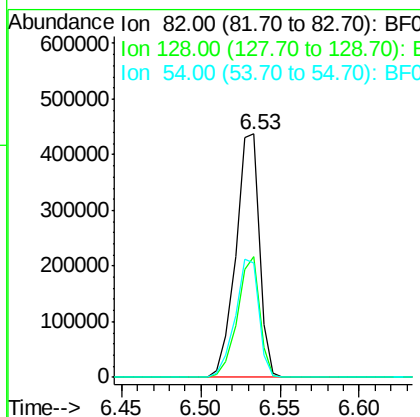
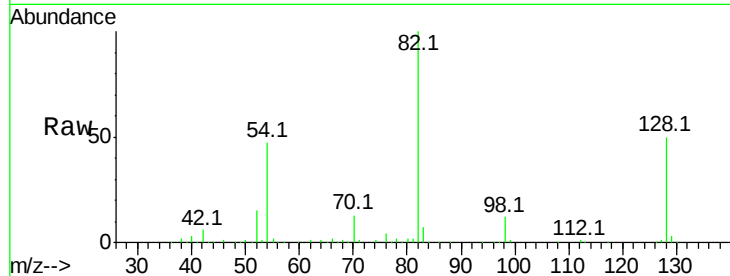
#23
Nitrobenzene-d5
Concen: 32.91 ng
RT: 6.53 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.7	34.0	51.0
54	47.2	42.2	63.2

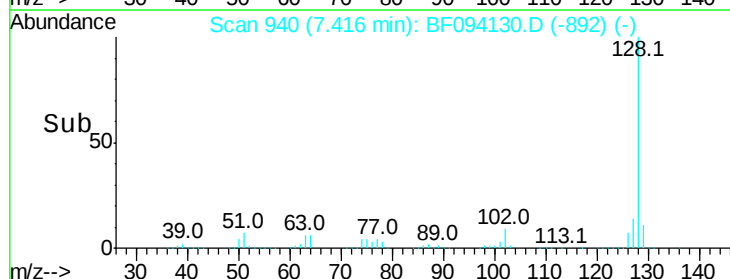
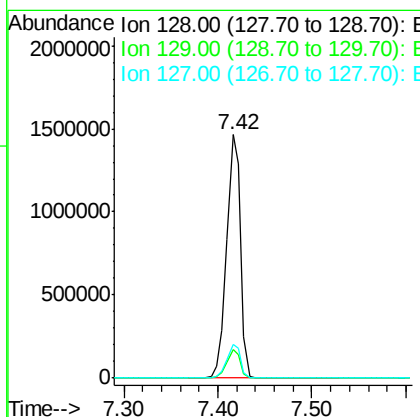
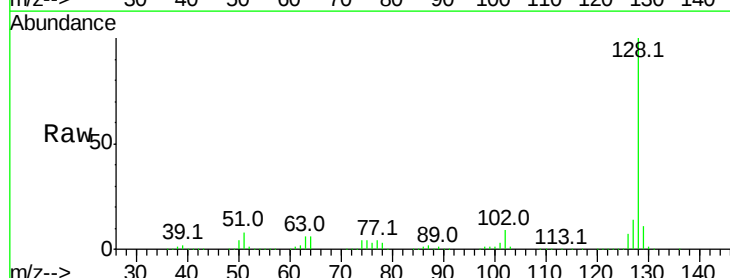
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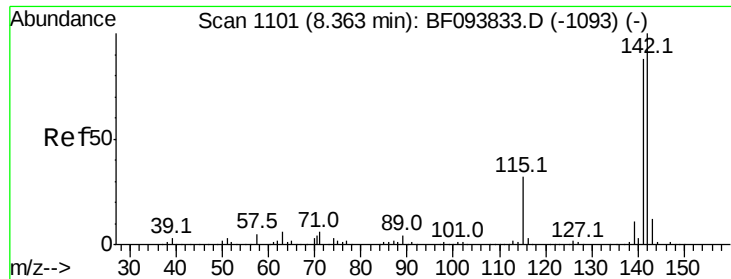
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#31
Naphthalene
Concen: 39.69 ng
RT: 7.42 min Scan# 940
Delta R.T. -0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.6
127	13.8	10.8	16.2





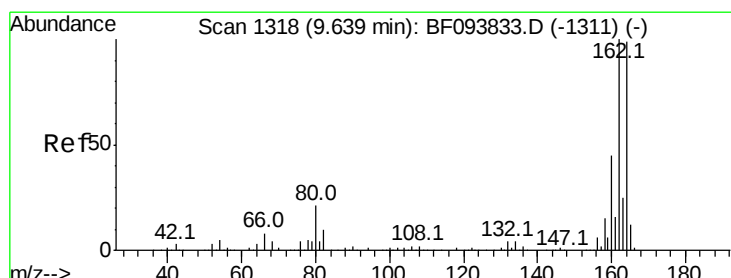
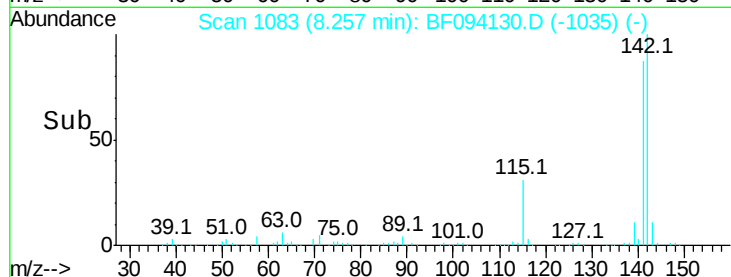
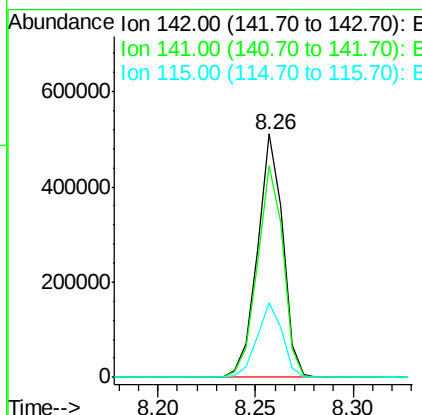
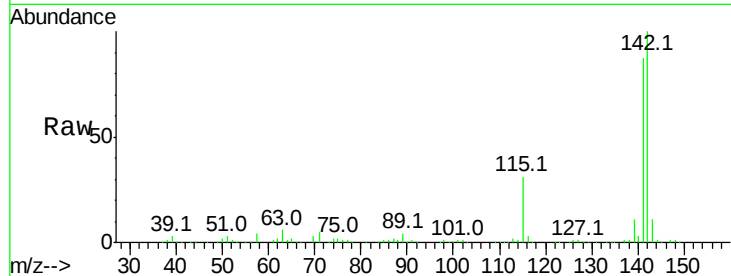
#37
2-Methylnaphthalene
Concen: 18.32 ng
RT: 8.26 min Scan# 1083
Delta R.T. -0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.3	106.9
115	30.8	27.1	40.7

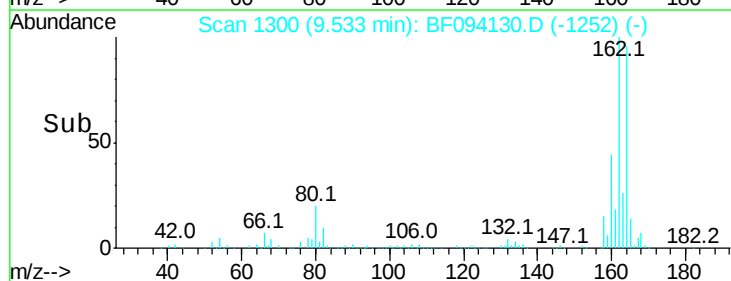
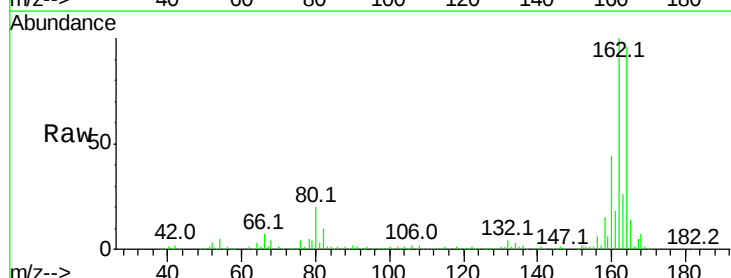
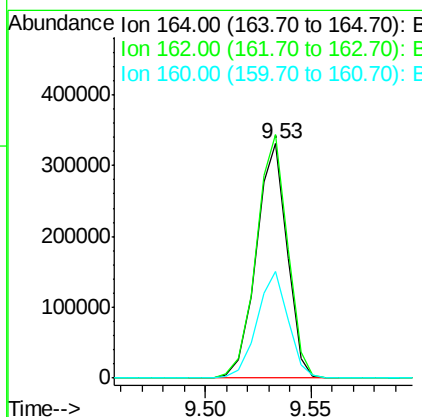
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.6	123.8
160	45.5	36.2	54.2





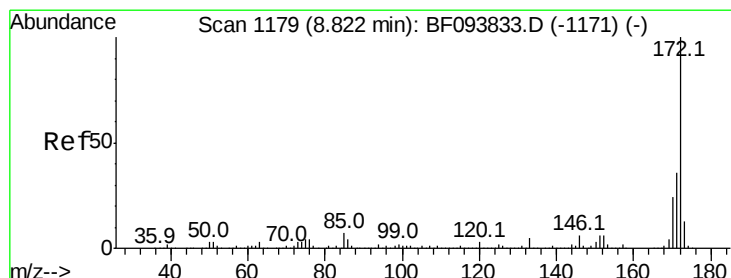
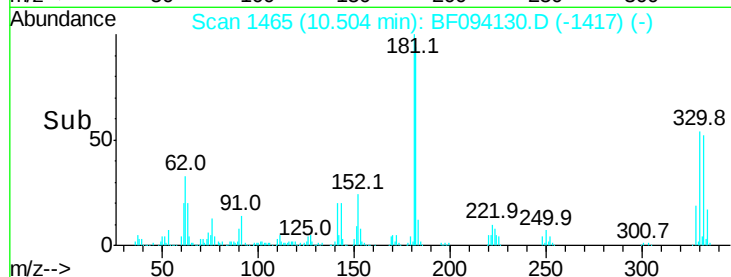
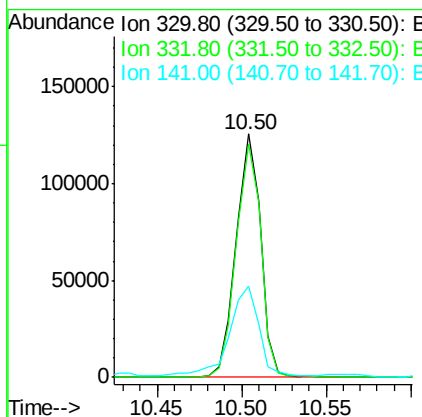
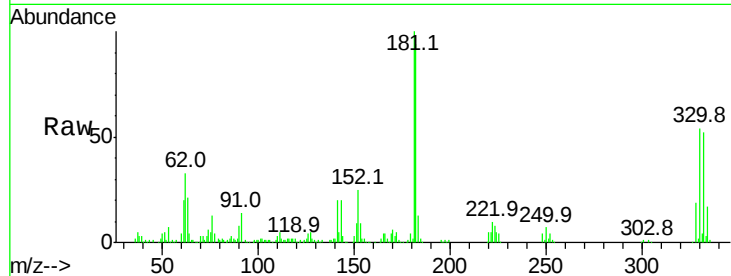
#41
 2,4,6-Tribromophenol
 Concen: 47.90 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.9	76.6	115.0	
141	45.5	31.4	47.2	

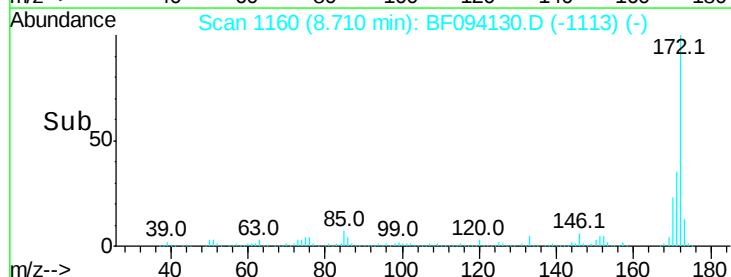
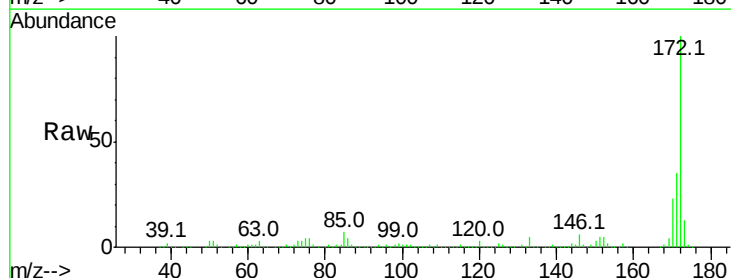
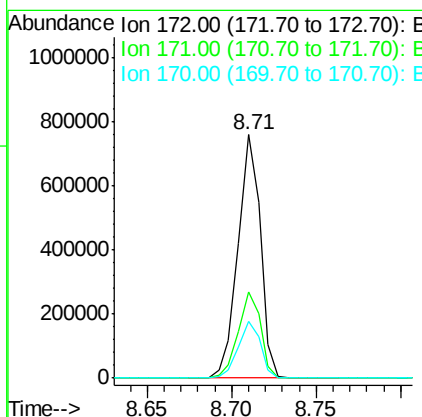
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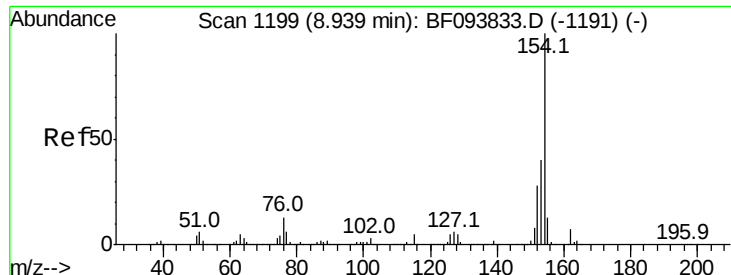
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#44
 2-Fluorobiphenyl
 Concen: 31.82 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.2	29.6	44.4	
170	23.3	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 5.48 ng

RT: 8.83 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

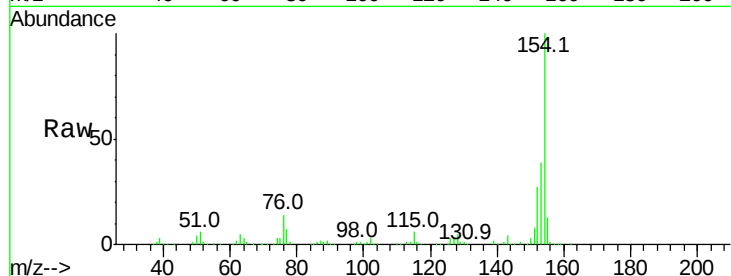
ClientSampleId :

TP-4

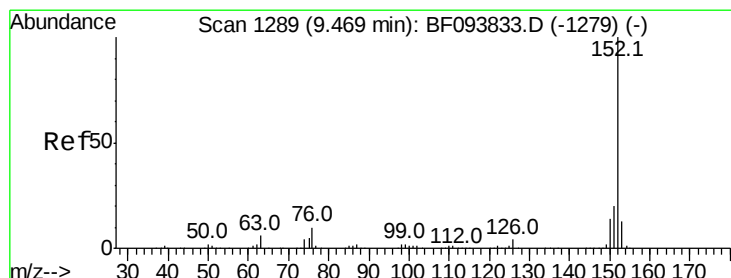
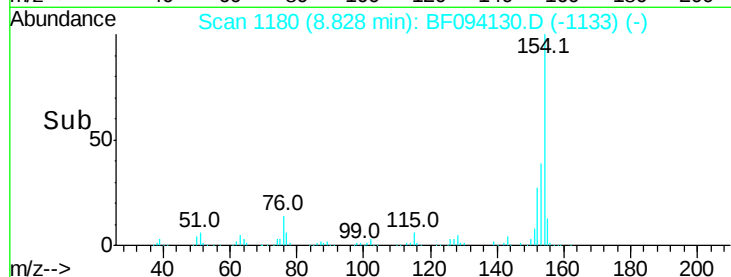
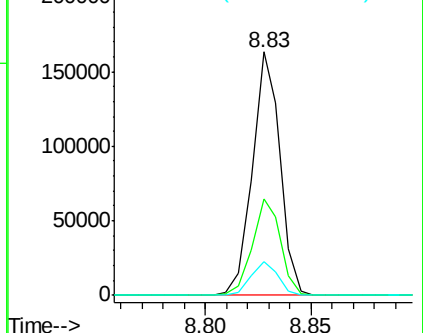
Tot Ion:	154	Resp:	148511
Ion Ratio	Lower	Upper	
154	100		
153	39.4	21.2	61.2
76	13.9	0.0	29.9

Manual Integrations
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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: 3.22 ng

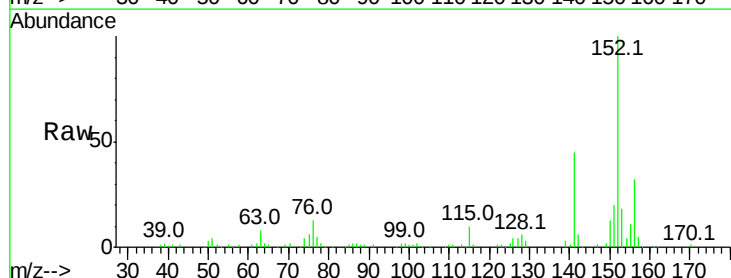
RT: 9.36 min Scan# 1270

Delta R.T. -0.02 min

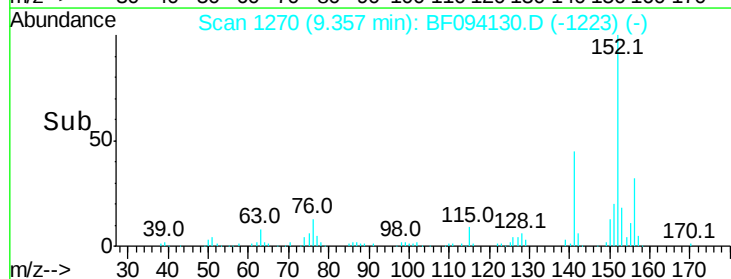
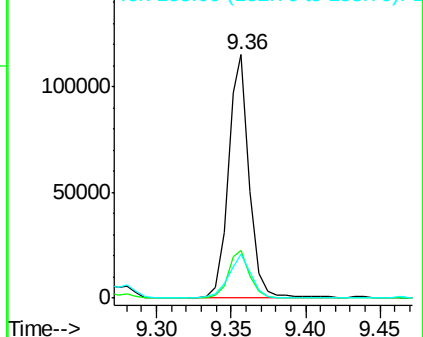
Lab File: BF094130.D

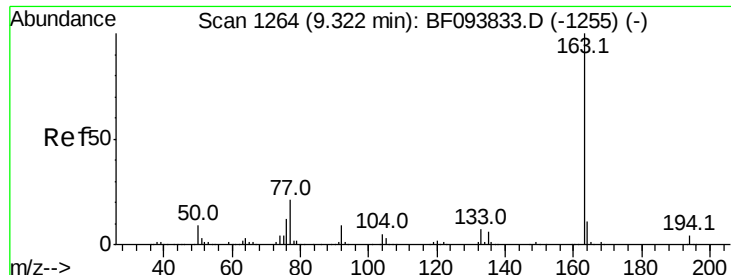
Acq: 3 Apr 2017 19:32

Tgt Ion:	152	Resp:	113421
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.8	25.2
153	18.1	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





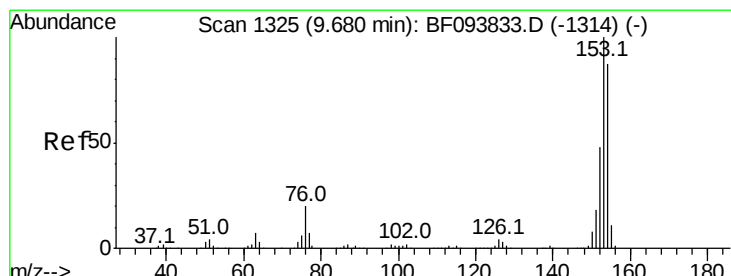
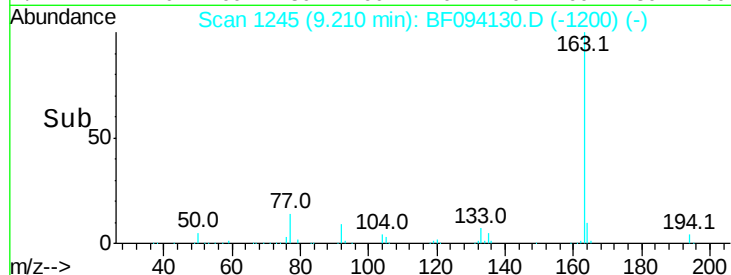
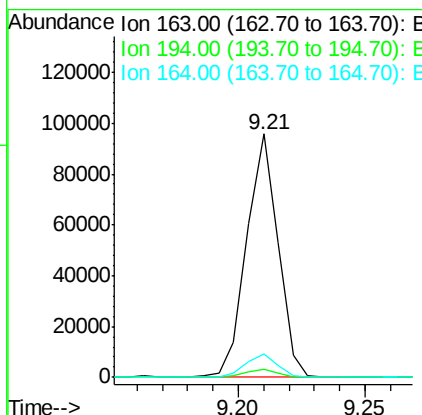
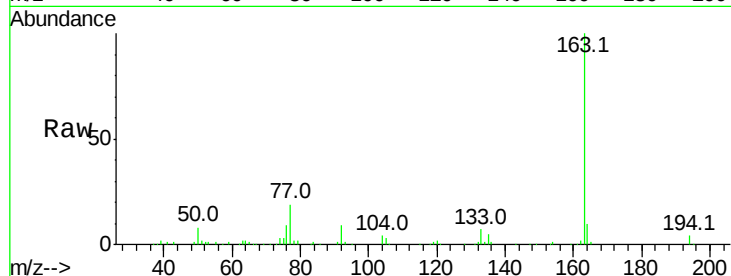
#49
Dimethylphthalate
Concen: 3.47 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	9.8	8.4	12.6

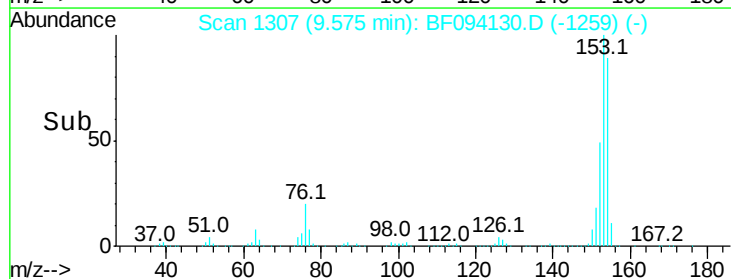
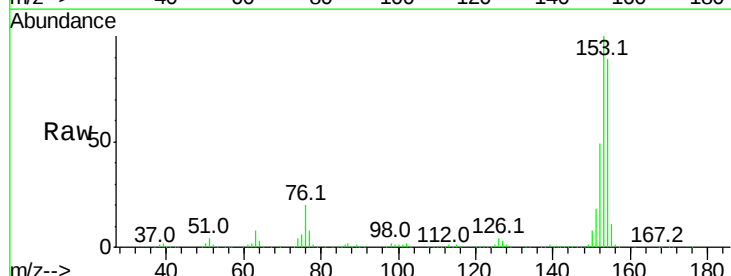
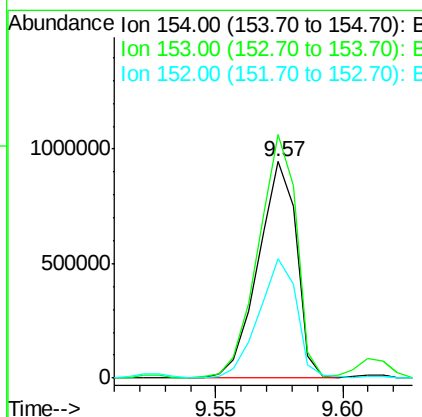
Manual Integrations
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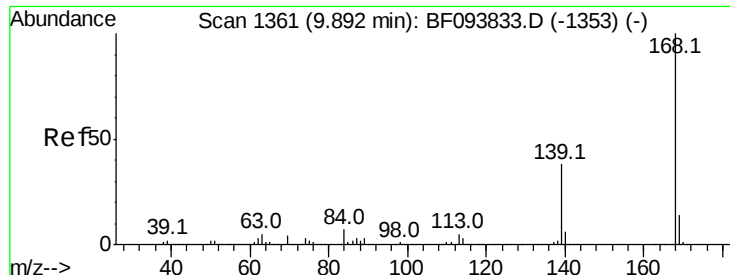
mohammad
4/4/2017 5:34:09 PM



#51
Acenaphthene
Concen: 48.41 ng
RT: 9.57 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.5	135.7
152	55.0	43.6	65.4





#54

Dibenzenofuran

Concen: 33.20 ng

RT: 9.79 min Scan# 1343

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

Tot Ion:168 Resp: 930059

Ion Ratio Lower Upper

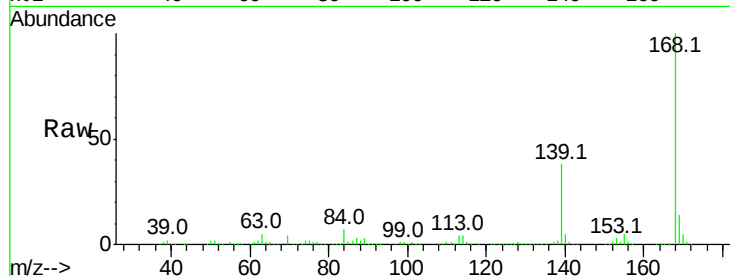
168 100

139 38.0 30.6 45.8

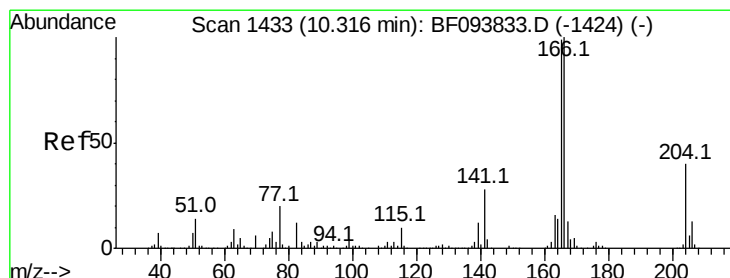
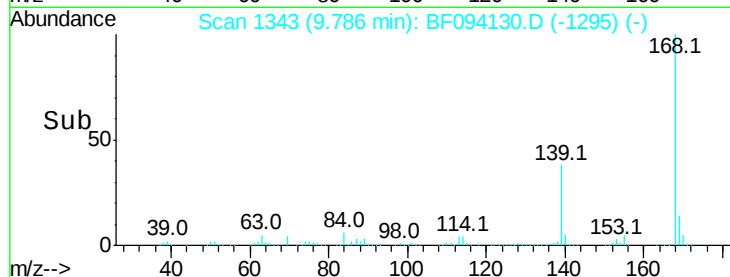
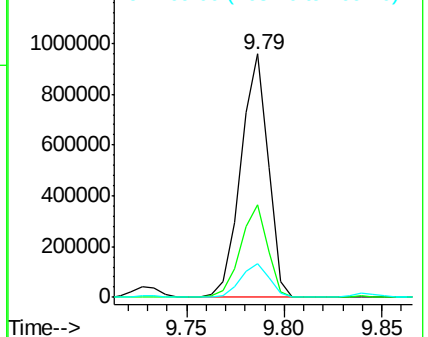
169 14.0 10.8 16.2

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



#57

Fluorene

Concen: 41.78 ng

RT: 10.21 min Scan# 1415

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

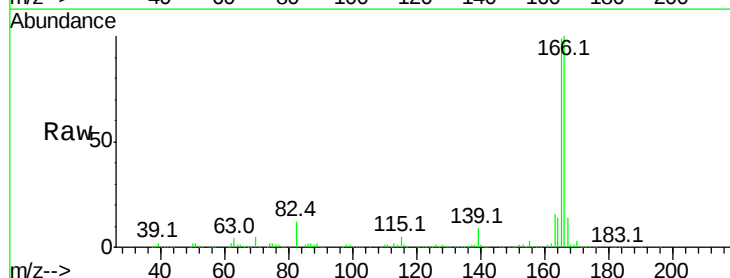
Tgt Ion:166 Resp: 970658

Ion Ratio Lower Upper

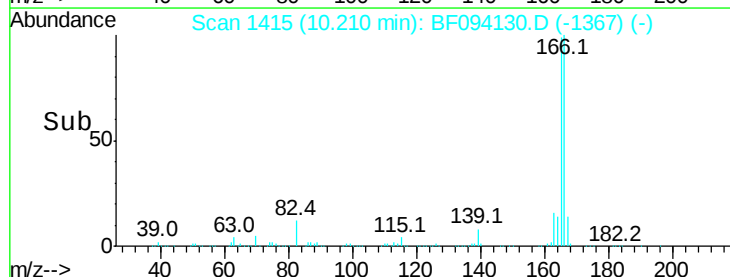
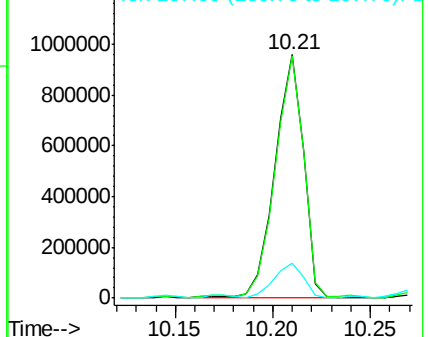
166 100

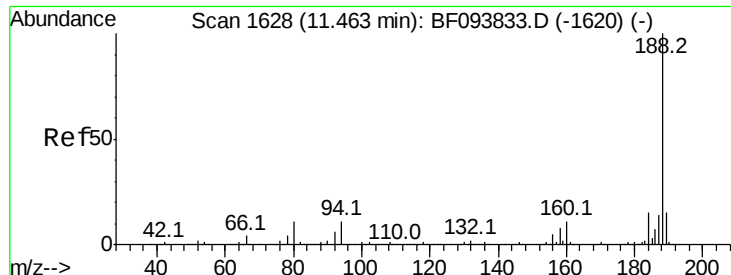
165 99.3 78.8 118.2

167 14.1 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





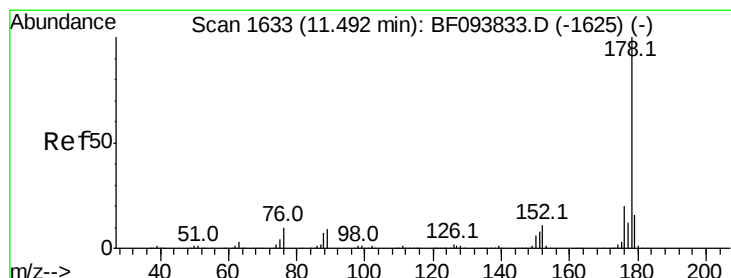
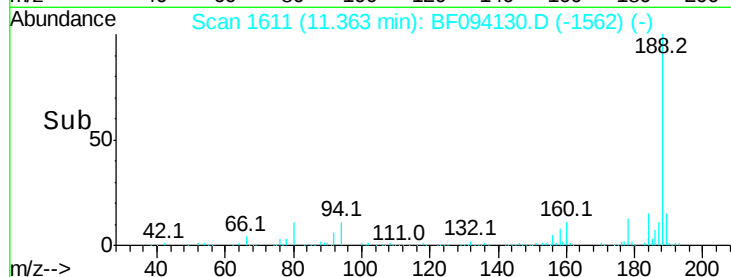
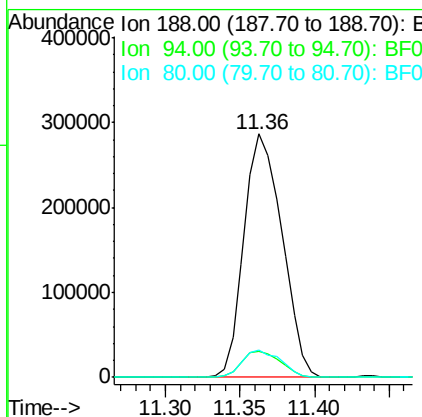
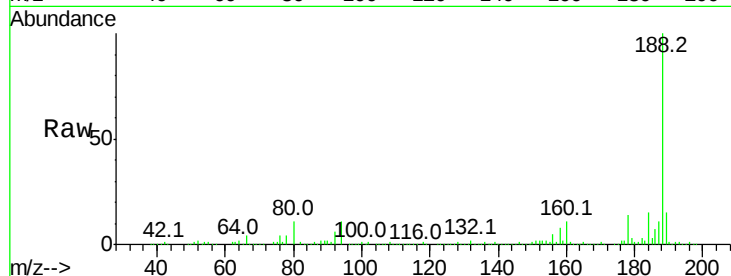
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion:	188	Resp:	508338
Ion Ratio	Lower	Upper	
188	100		
94	10.7	9.4	14.2
80	11.2	10.2	15.2

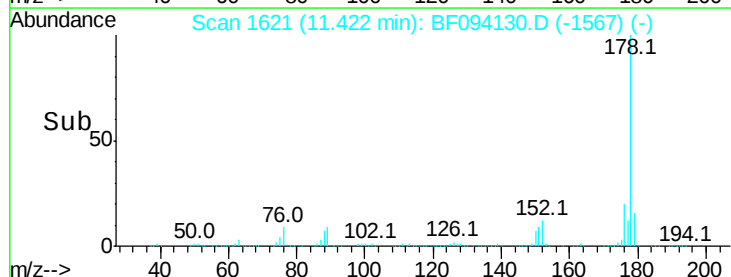
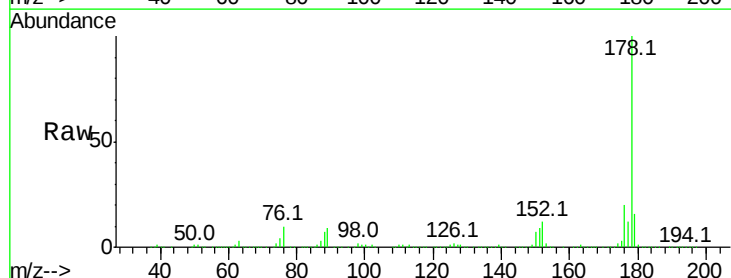
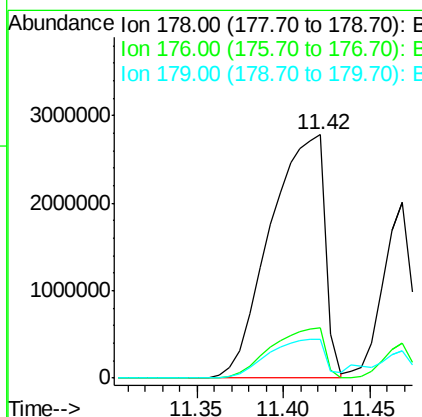
Manual Integrations
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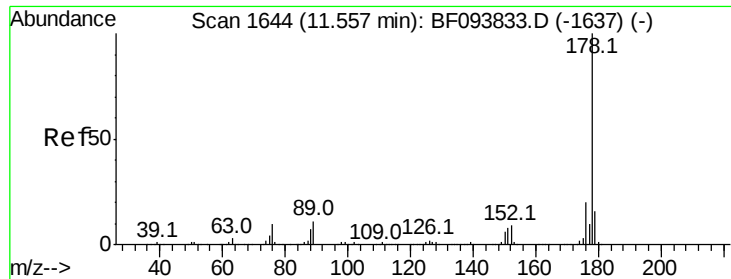
mohammad
 4/4/2017 5:34:09 PM



#70
 Phenanthrene
 Concen: 218.73 ng m
 RT: 11.42 min Scan# 1621
 Delta R.T. 0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:	178	Resp:	6185220
Ion Ratio	Lower	Upper	
178	100		
176	20.5	16.2	24.4
179	16.1	12.6	19.0





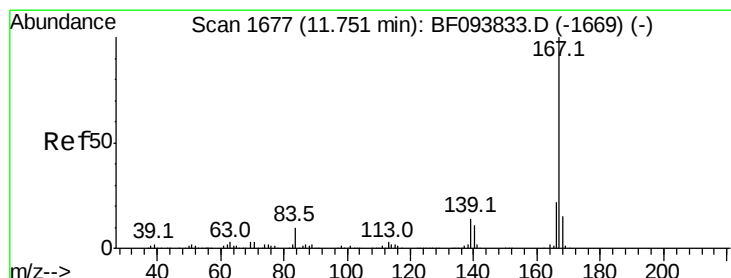
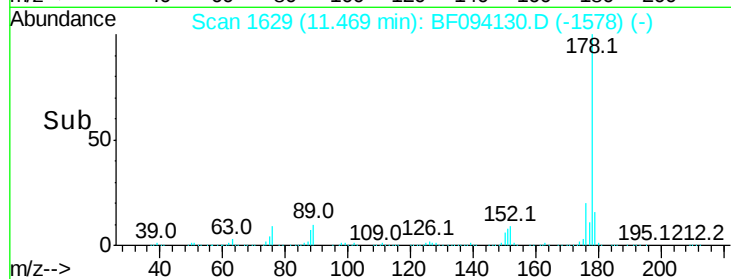
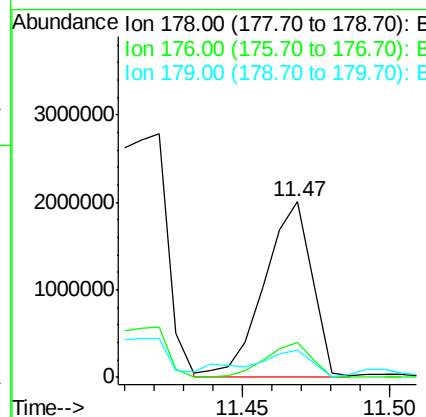
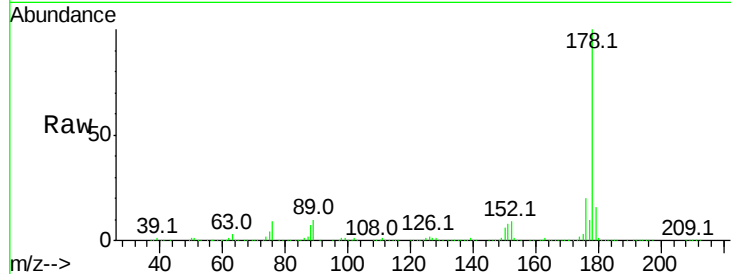
#71
 Anthracene
 Concen: 77.17 ng/ml
 RT: 11.47 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion:178 Resp: 2246932
 Ion Ratio Lower Upper
 178 100
 176 19.9 15.8 23.8
 179 15.8 12.7 19.1

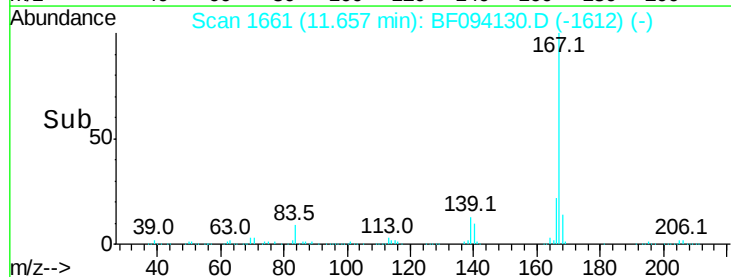
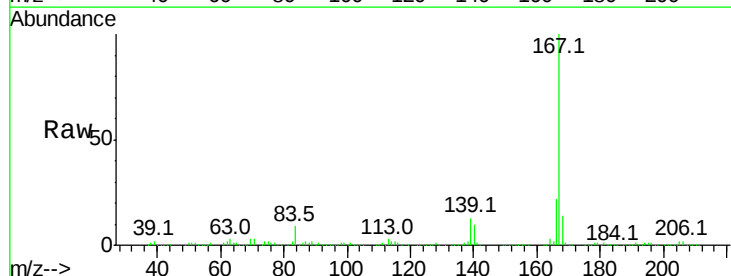
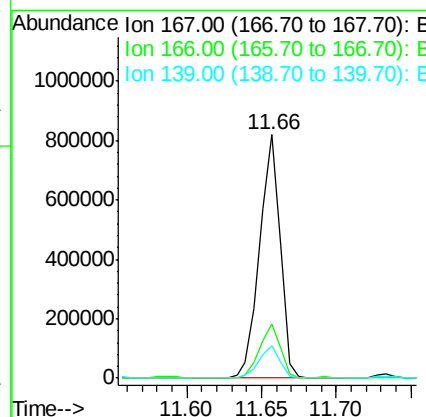
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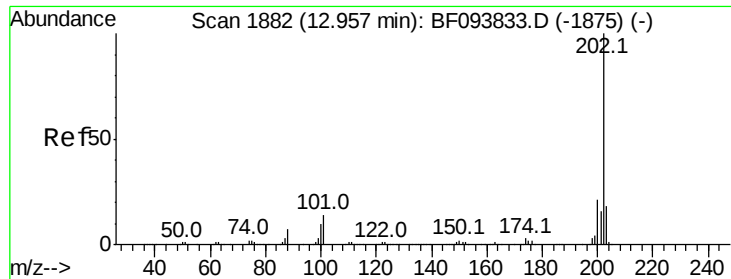
mohammad
 4/4/2017 5:34:09 PM



#72
 Carbazole
 Concen: 26.01 ng
 RT: 11.66 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:167 Resp: 776571
 Ion Ratio Lower Upper
 167 100
 166 22.2 18.1 27.1
 139 13.5 11.7 17.5





#74

Fluoranthene

Concen: 220.90 ng

RT: 12.89 min Scan# 1871

Delta R.T. 0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampled :

TP-4

Tot Ion:202 Resp: 6396292

Ion Ratio Lower Upper

202 100

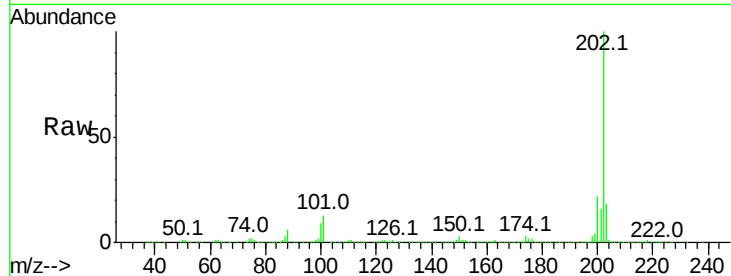
101 12.7 0.0 33.2

203 18.3 0.0 38.1

Manual Integrations
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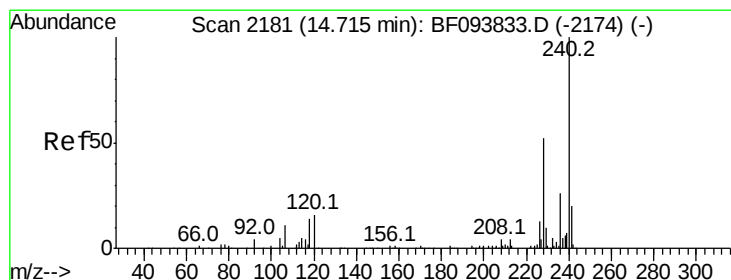
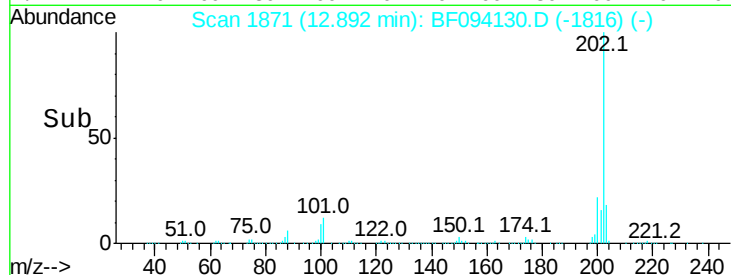
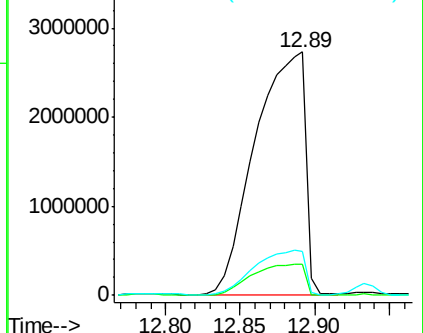
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.63 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

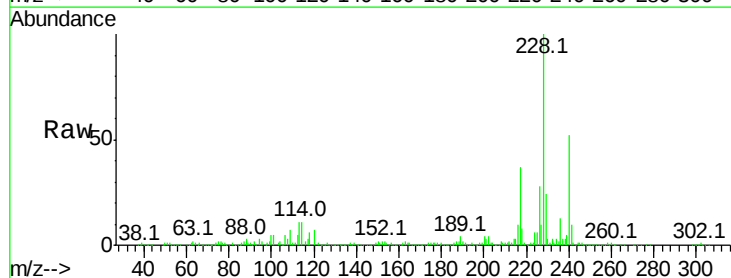
Tgt Ion:240 Resp: 270735

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

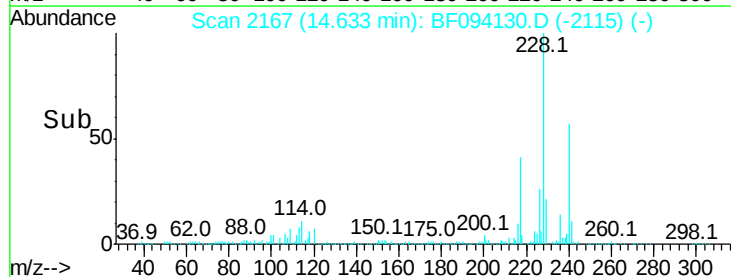
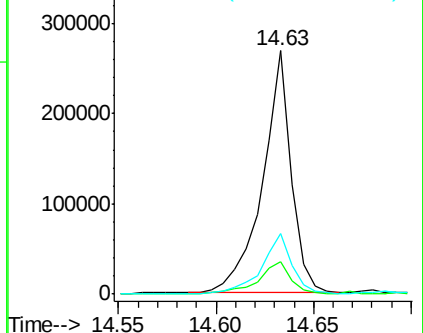
236 24.9 20.5 30.7

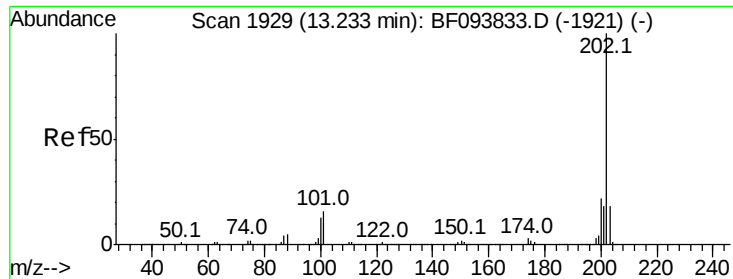


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





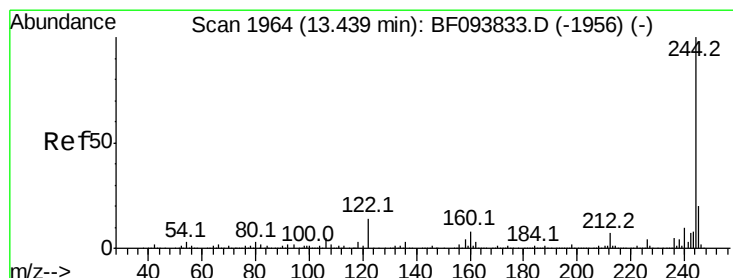
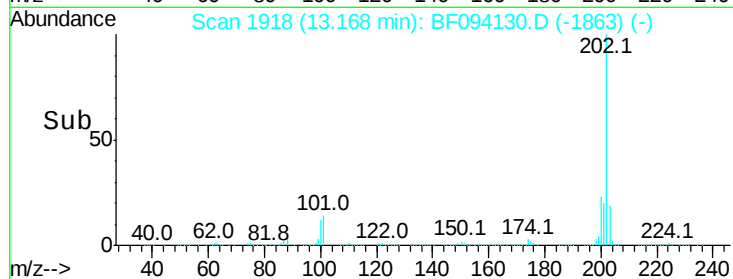
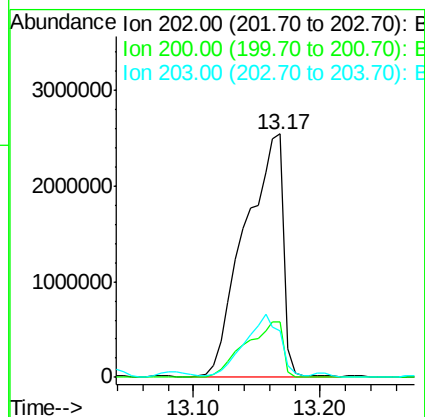
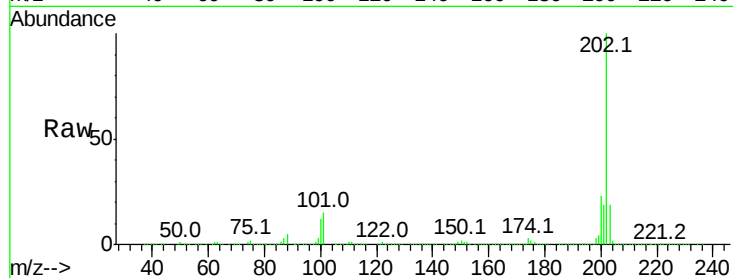
#77
Pvrene
Concen: 271.94 ng
RT: 13.17 min Scan# 1918
Delta R.T. 0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion:202 Resp: 5343161
Ion Ratio Lower Upper
202 100
200 22.7 17.6 26.4
203 19.0 14.4 21.6

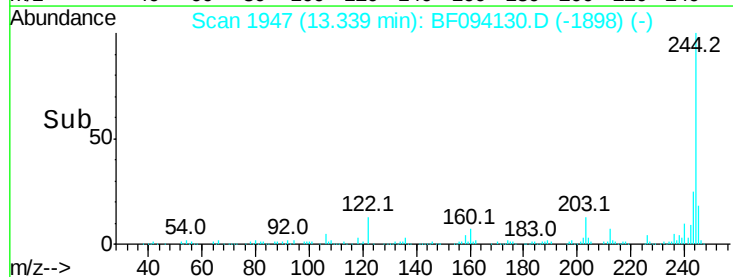
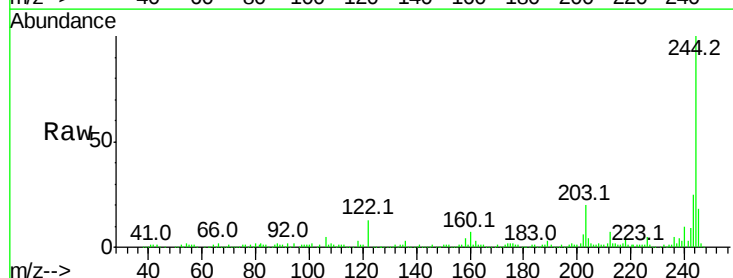
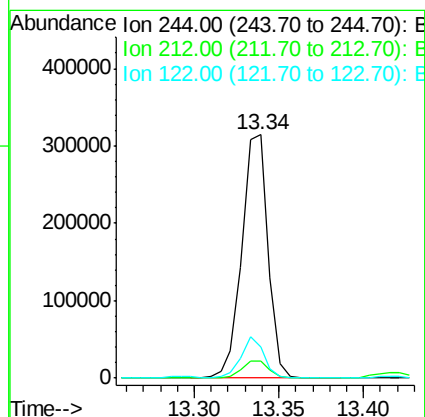
Manual Integrations
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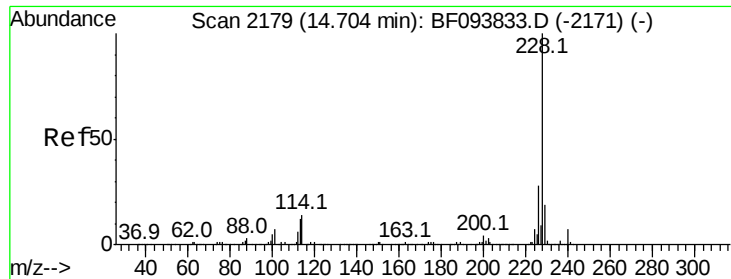
mohammad
4/4/2017 5:34:09 PM



#78
Terphenyl-d14
Concen: 28.17 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:244 Resp: 340283
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 12.7 10.3 15.5





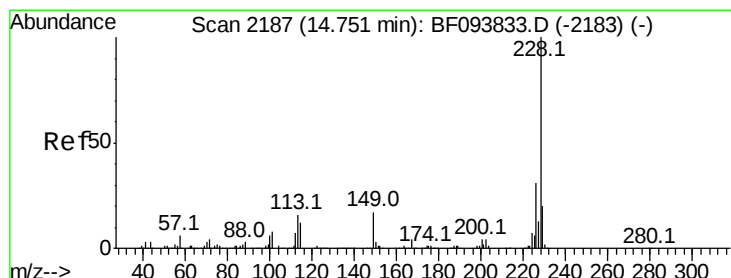
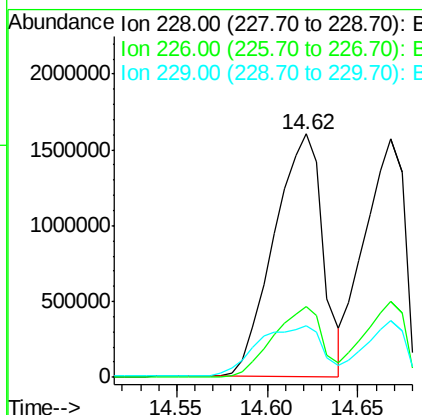
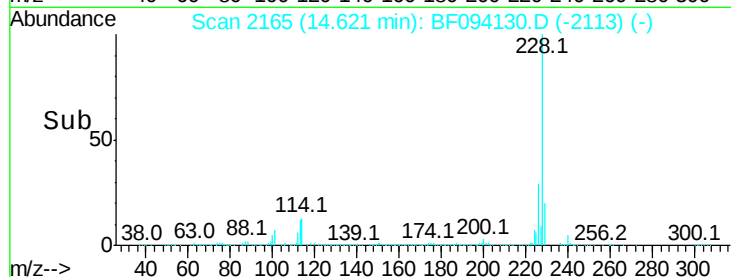
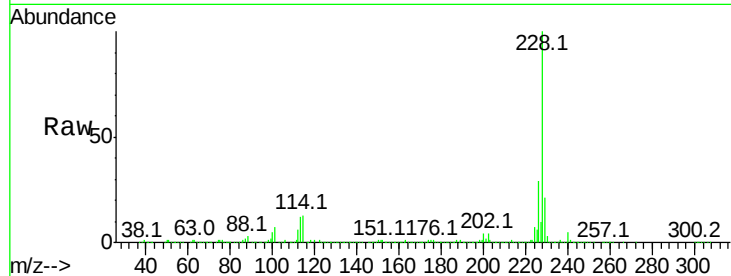
#80
Benzo(a)anthracene
Concen: 190.86 ng
RT: 14.62 min Scan# 2165
Delta R.T. 0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion:228 Resp: 3013169
Ion Ratio Lower Upper
228 100
226 28.9 22.6 33.8
229 21.2 16.3 24.5

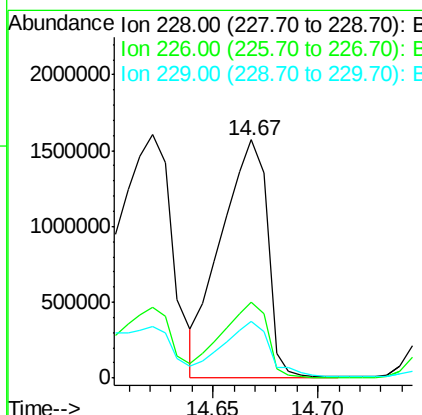
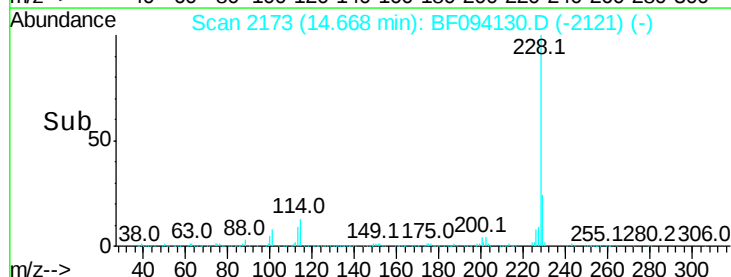
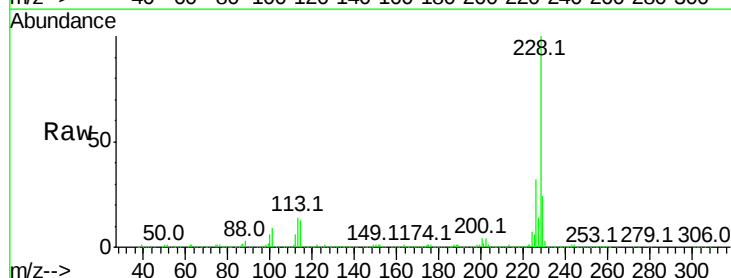
Manual Integrations
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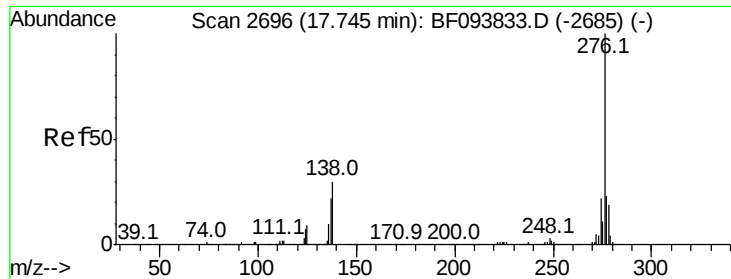
mohammad
4/4/2017 5:34:09 PM



#82
Chrysene
Concen: 165.65 ng m
RT: 14.67 min Scan# 2173
Delta R.T. 0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:228 Resp: 2426920
Ion Ratio Lower Upper
228 100
226 31.7 24.9 37.3
229 23.8 15.8 23.6#





#85

Indeno(1,2,3-cd)pyrene

Concen: 101.86 ng

RT: 17.62 min Scan# 2675

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampled :

TP-4

Tot Ion:276 Resp: 1292469

Ion Ratio Lower Upper

276 100

138 29.0 27.8 41.6

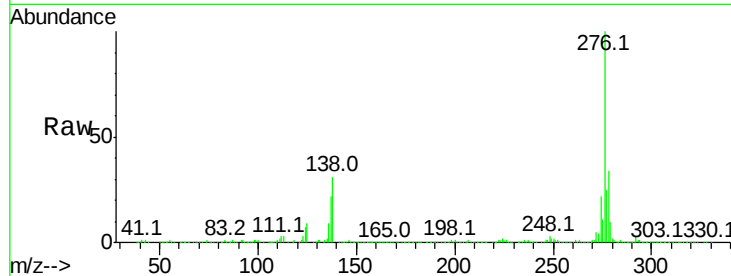
277 26.3 20.2 30.4

Manual Integrations

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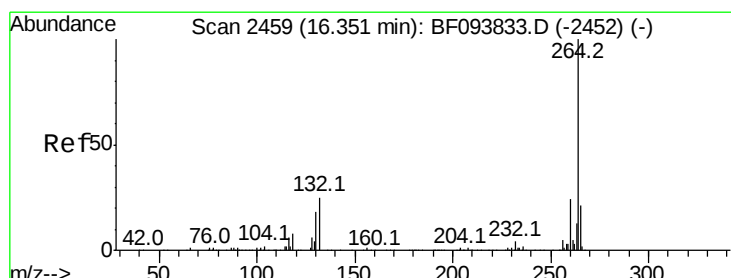
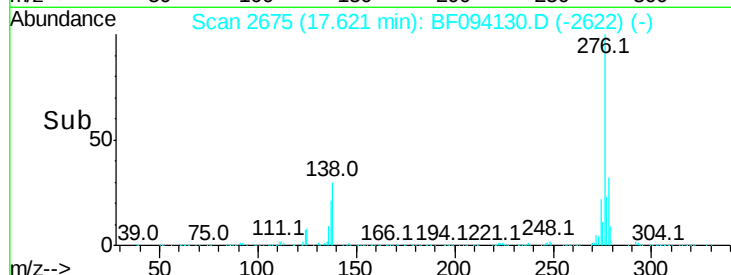
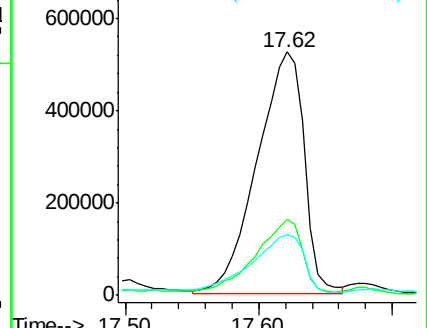
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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.26 min Scan# 2444

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

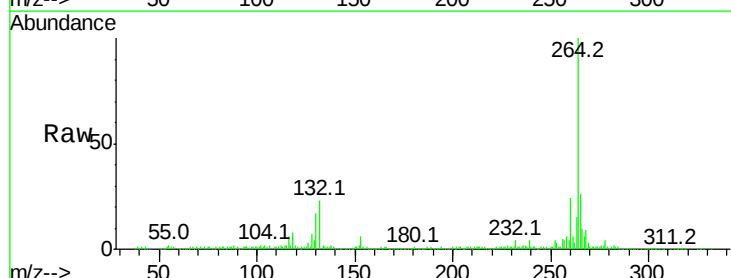
Tgt Ion:264 Resp: 342545

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

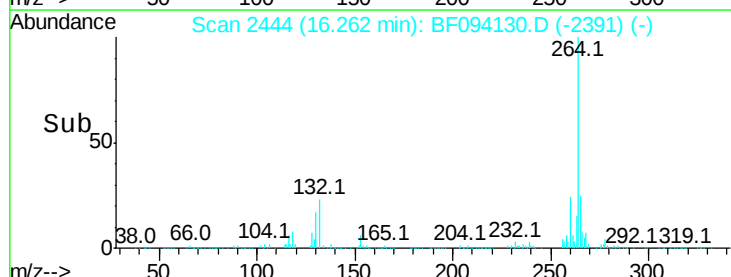
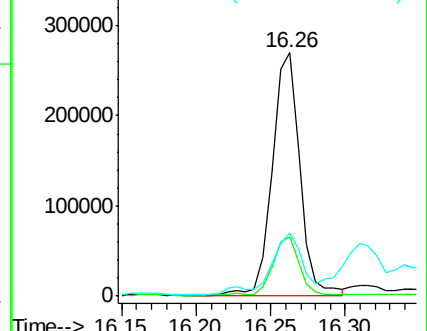
265 25.9 17.2 25.8#

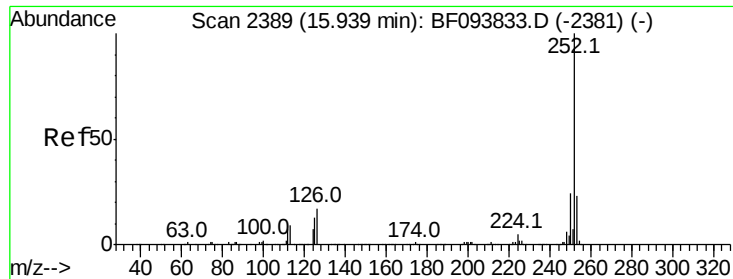


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 148.40 ng m

RT: 15.87 min Scan# 2377

Delta R.T. 0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampled :

TP-4

Tot Ion:252 Resp: 3115930

Ion Ratio Lower Upper

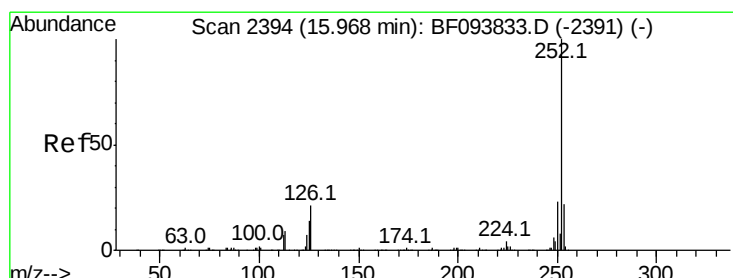
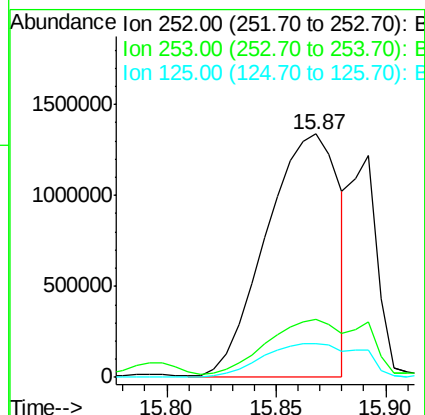
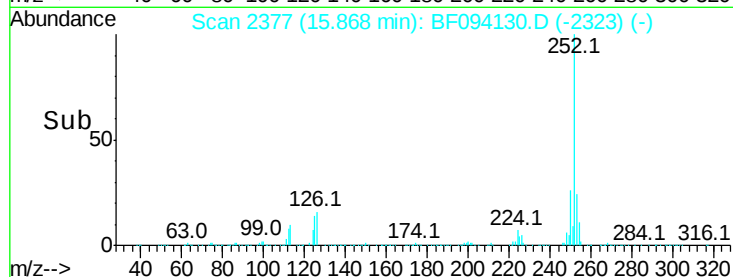
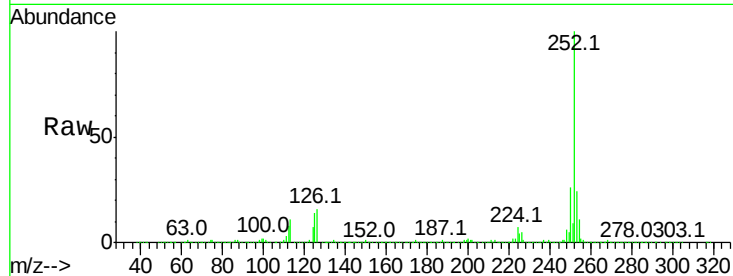
252 100

253 23.7 18.1 27.1

125 14.0 9.8 14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 49.52 ng m

RT: 15.89 min Scan# 2381

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

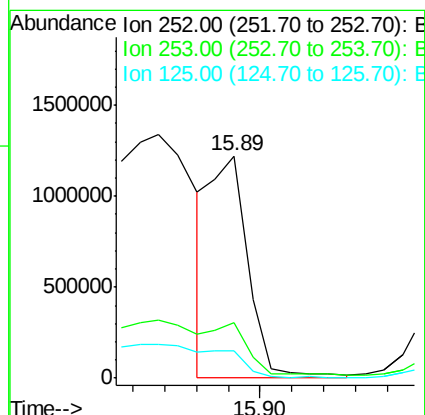
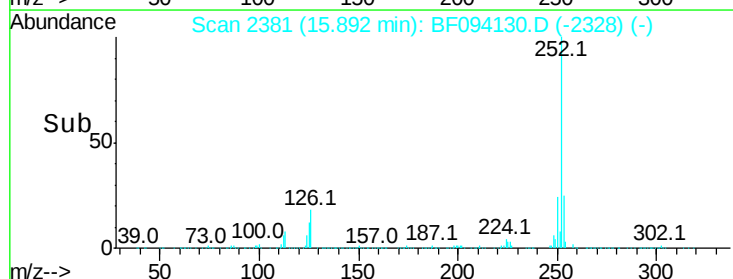
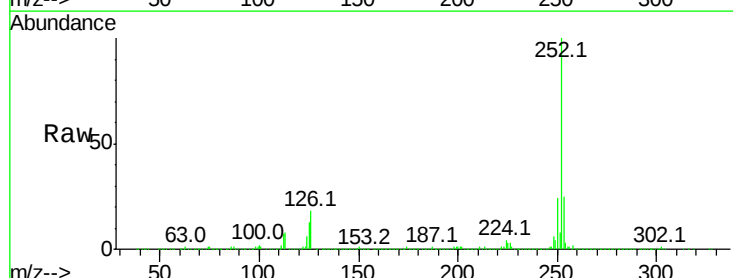
Tgt Ion:252 Resp: 1017440

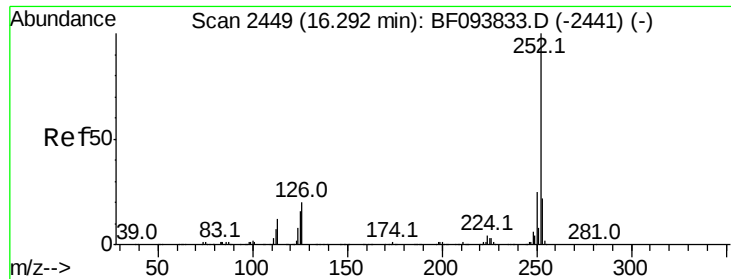
Ion Ratio Lower Upper

252 100

253 25.1 18.4 27.6

125 12.5 13.1 19.7#





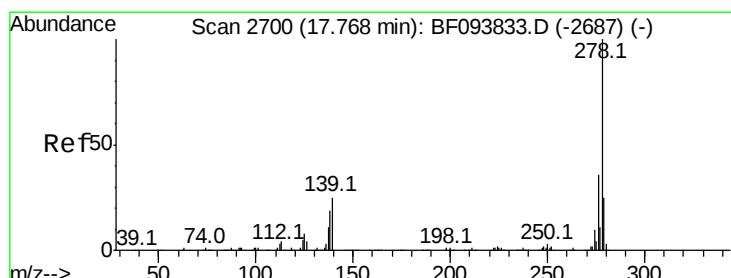
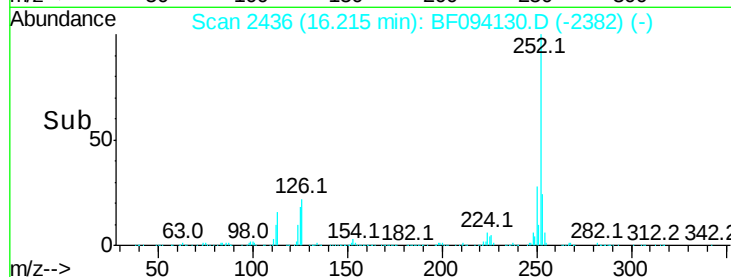
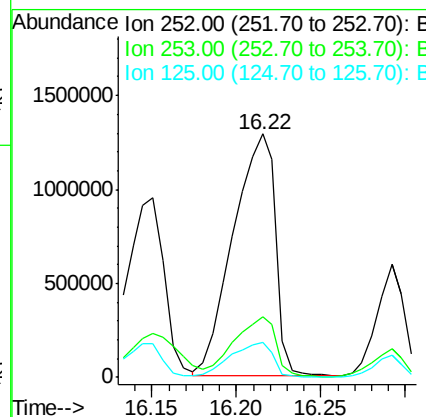
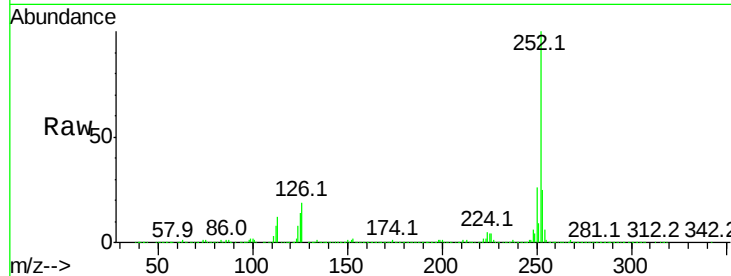
#89
Benzo(a)pyrene
Concen: 116.70 ng
RT: 16.22 min Scan# 2436
Delta R.T. 0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion:252 Resp: 2256514
Ion Ratio Lower Upper
252 100
253 25.0 17.5 26.3
125 14.5 11.0 16.4

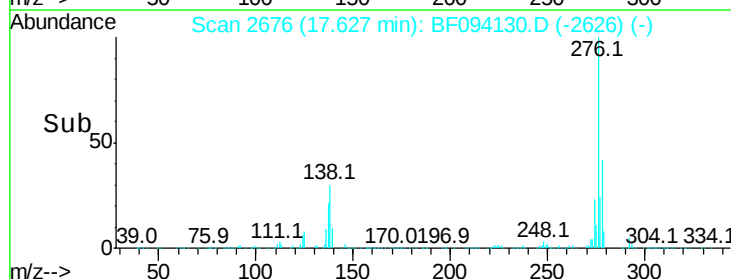
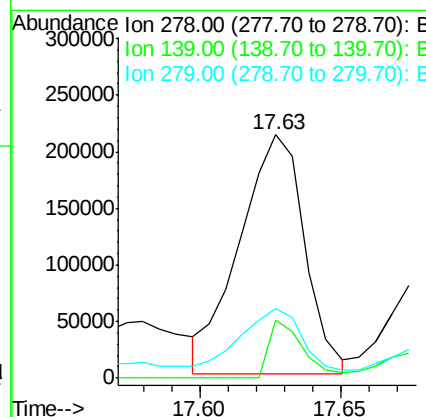
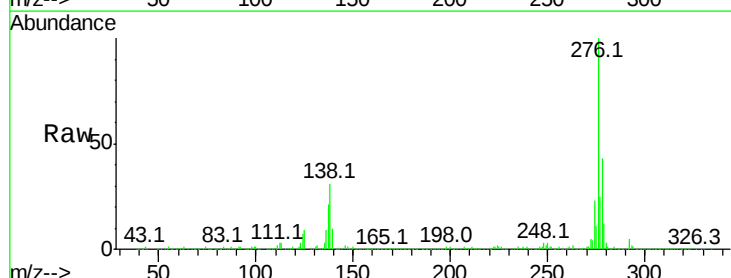
Manual Integrations
APPROVED

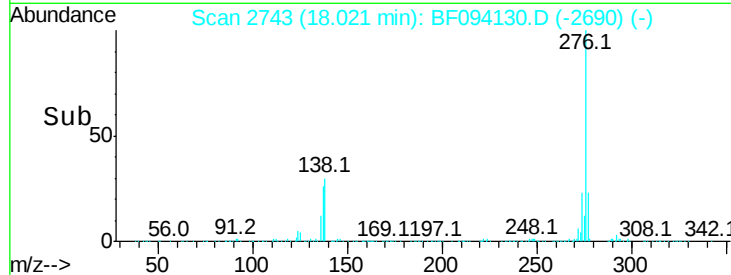
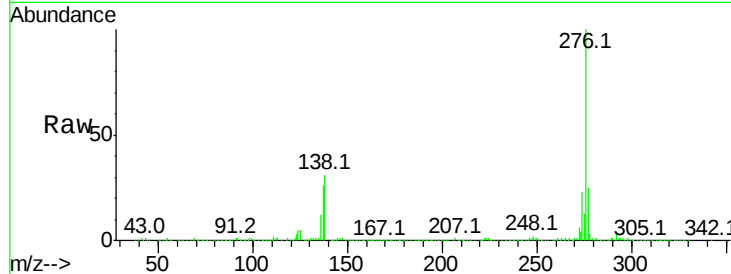
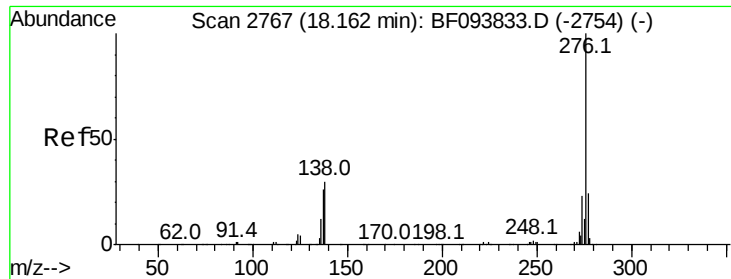
mohammad
4/4/2017 5:34:09 PM



#90
Dibenzo(a,h)anthracene
Concen: 20.69 ng
RT: 17.63 min Scan# 2676
Delta R.T. -0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:278 Resp: 338804
Ion Ratio Lower Upper
278 100
139 23.9 16.6 24.8
279 28.8 19.3 28.9





#91
 Benzo(a,h,i)perylene
 Concen: 65.30 ng
 RT: 18.02 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.6	28.0
138	30.6	25.4	38.0

Manual Integrations
 APPROVED

mohammad
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