

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094030.D
 Acq On : 29 Mar 2017 20:39
 Operator : SJ/MA
 Sample : I2443-08
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB9-BASE

Manual Integrations
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Quant Time: Mar 30 04:06:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	164575	20.00	ng	-0.04
21) Naphthalene-d8	7.42	136	659847	20.00	ng	-0.04
38) Acenaphthene-d10	9.56	164	301052	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	514144	20.00	ng	-0.04
75) Chrysene-d12	14.64	240	385570	20.00	ng	-0.04
86) Perylene-d12	16.27	264	290407	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	1330148	136.51	ng	-0.02
7) Phenol-d6	5.52	99	1680708	139.43	ng	-0.03
23) Nitrobenzene-d5	6.57	82	1032671	89.31	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	349209	146.79	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1584490	80.28	ng	-0.03
78) Terphenyl-d14	13.37	244	1235894	71.85	ng	-0.04
Target Compounds						Qvalue
10) Phenol	5.53	94	53053	3.87	ng	88
17) 2-Methylphenol	6.22	107	47828	5.21	ng	98
20) 3+4-Methylphenols	6.40	107	126831	11.42	ng	# 62
27) 2,4-Dimethylphenol	7.04	122	71272m	7.61	ng	
31) Naphthalene	7.45	128	531223	16.74	ng	99
37) 2-Methylnaphthalene	8.29	142	353349	16.71	ng	99
45) 1,1'-Biphenyl	8.86	154	67037	2.76	ng	98
49) Dimethylphthalate	9.24	163	104663	4.89	ng	100
51) Acenaphthene	9.60	154	239655	13.00	ng	99
54) Dibenzofuran	9.82	168	188287	7.50	ng	98
57) Fluorene	10.24	166	227076	10.91	ng	98
70) Phenanthrene	11.42	178	1100039	38.46	ng	99
71) Anthracene	11.48	178	125931	4.28	ng	96
74) Fluoranthene	12.89	202	757182	25.85	ng	99
77) Pyrene	13.16	202	569825	20.36	ng	98
80) Benzo(a)anthracene	14.63	228	108600	4.83	ng	97
82) Chrysene	14.67	228	94890	4.55	ng	97
87) Benzo(b)fluoranthene	15.86	252	60602m	3.40	ng	
89) Benzo(a)pyrene	16.21	252	36238	2.21	ng	# 86

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

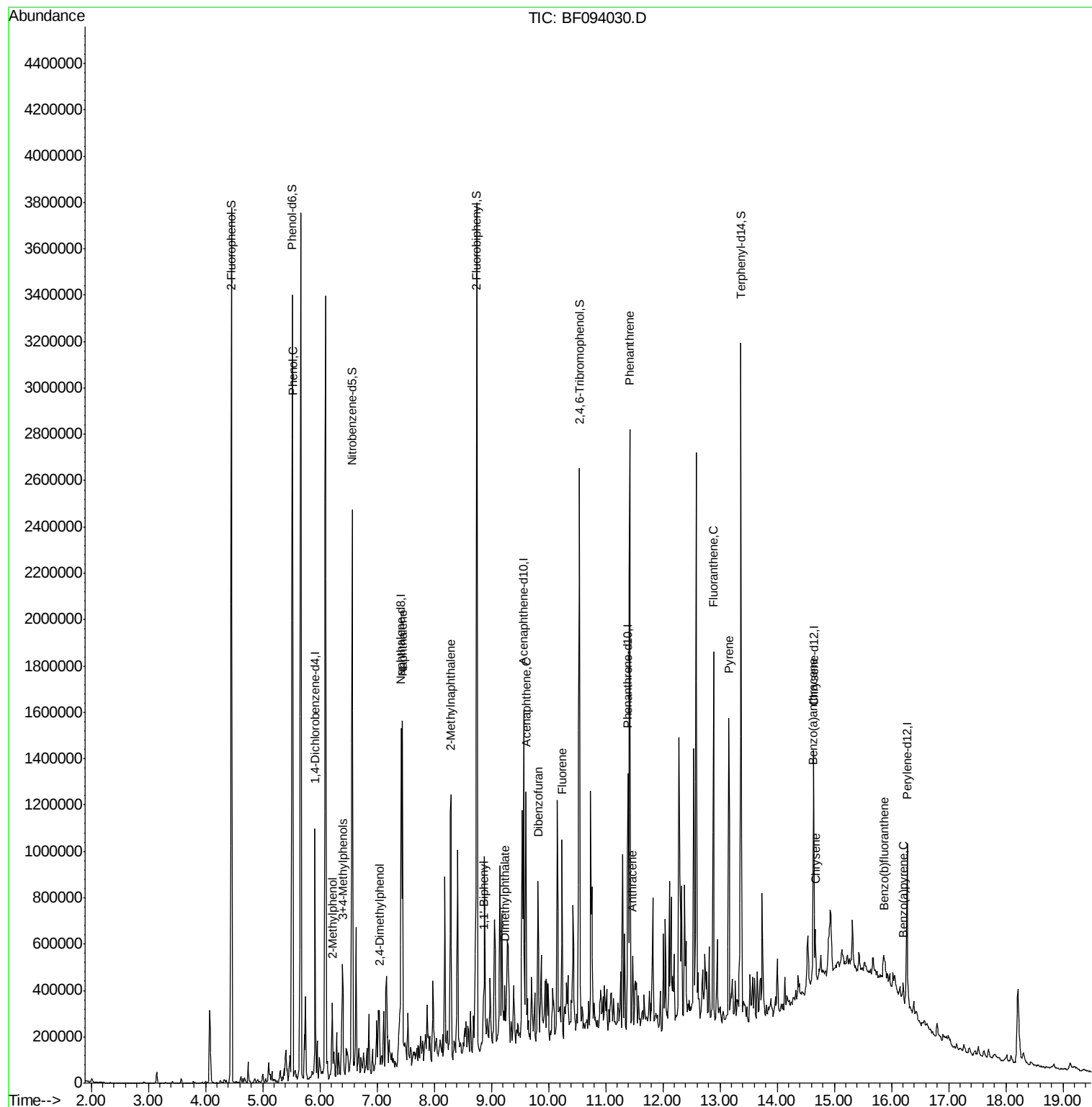
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
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ALS Vial : 14 Sample Multiplier: 1

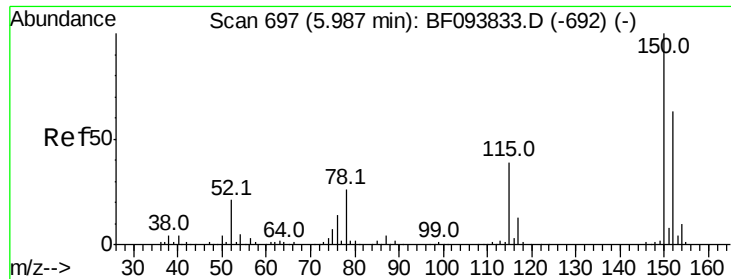
Instrument :
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#1

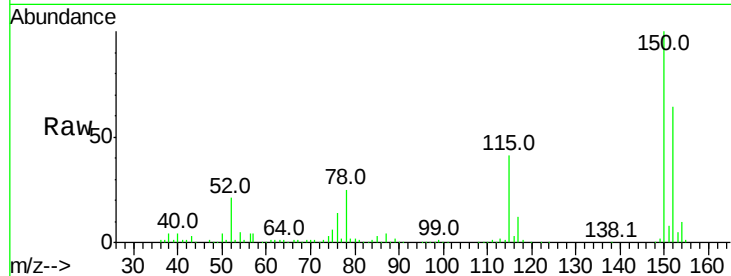
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 685
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

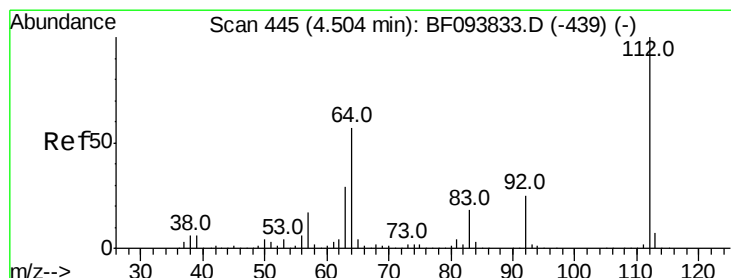
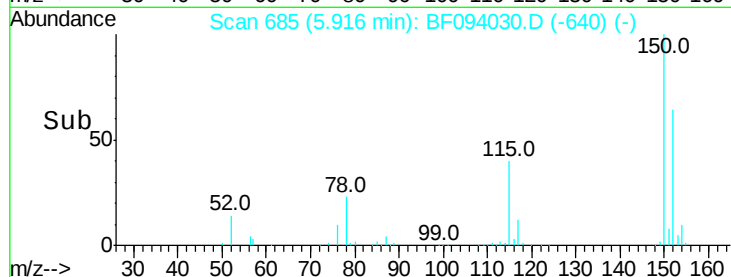
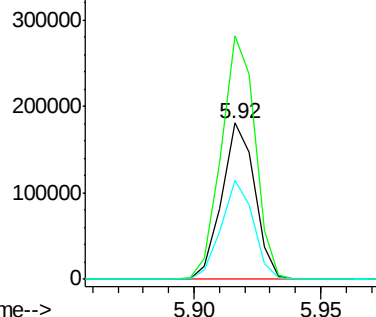
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	63.4	52.2	78.2

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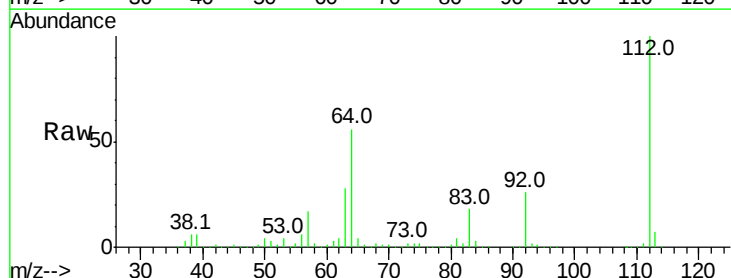
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



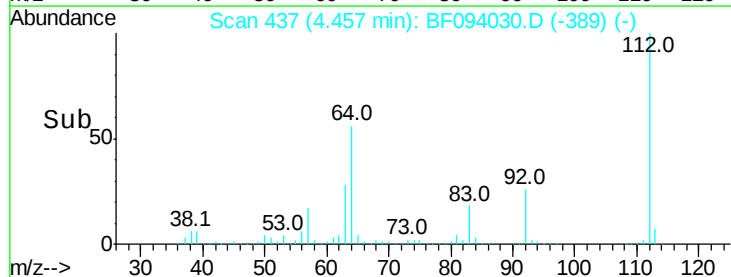
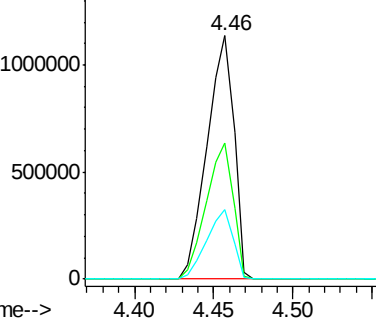
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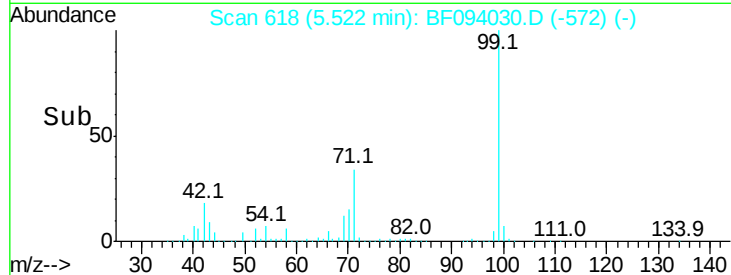
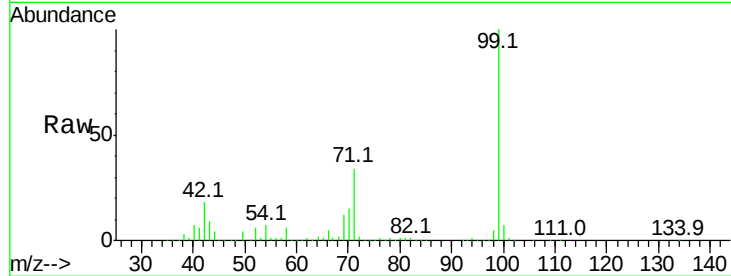
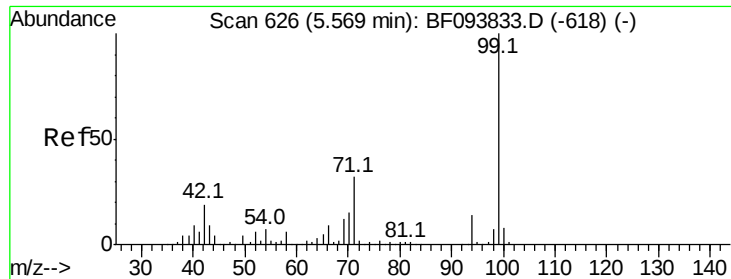
2-Fluorophenol
Concen: 136.51 ng
RT: 4.46 min Scan# 437
Delta R.T. -0.02 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.0	69.0
63	28.5	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: 139.43 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.03 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Tot Ion: 99 Resp: 1680708

Ion Ratio Lower Upper

99 100

42 17.9 13.5 20.3

71 33.8 24.5 36.7

Instrument :

BNA_F

ClientSampleId :

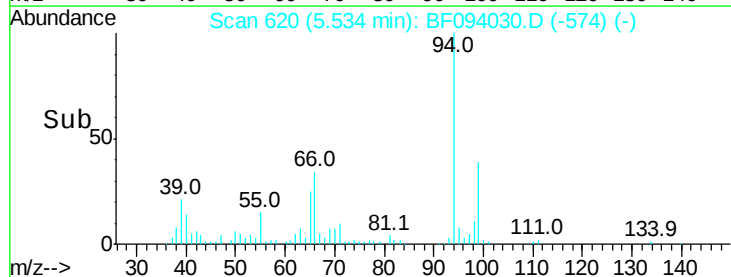
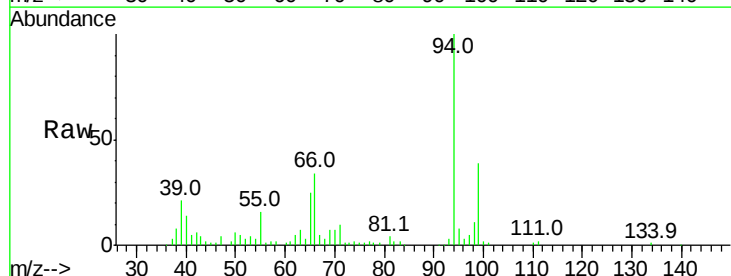
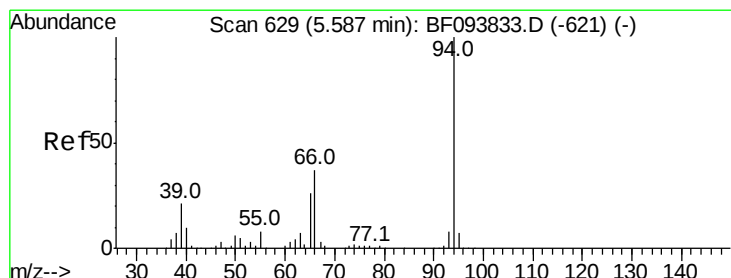
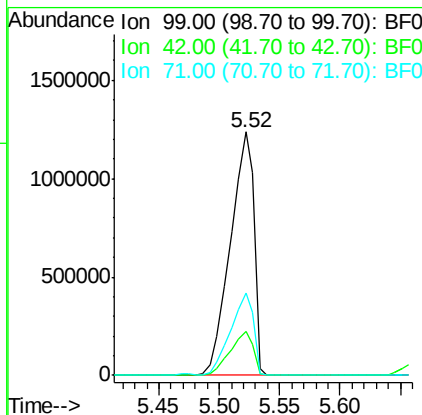
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#10

Phenol

Concen: 3.87 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.03 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

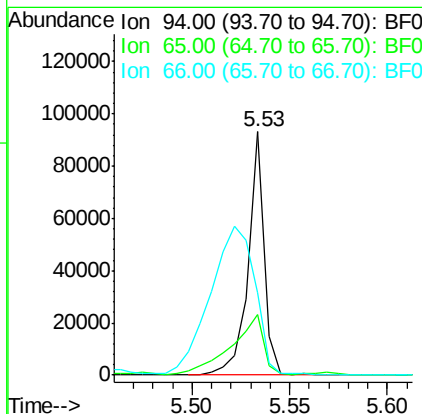
Tgt Ion: 94 Resp: 53053

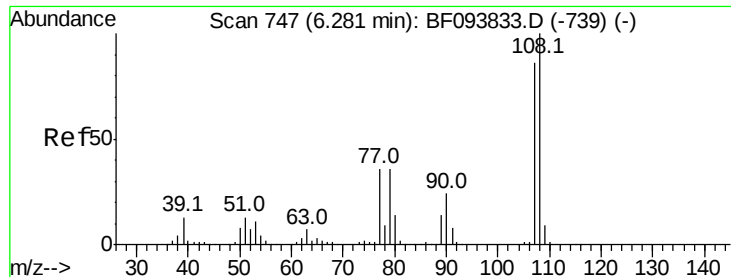
Ion Ratio Lower Upper

94 100

65 24.7 9.9 49.9

66 33.9 23.1 63.1





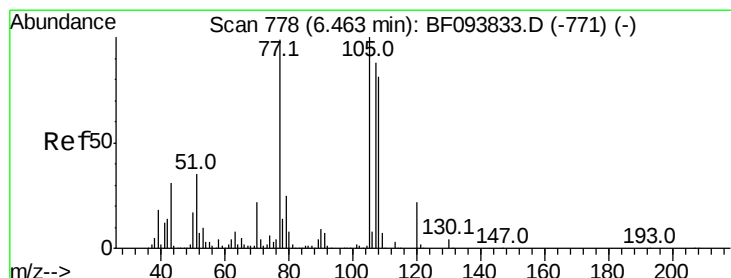
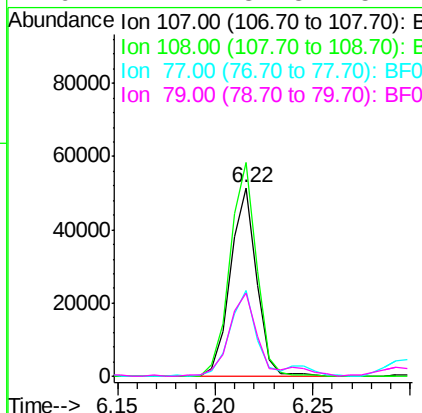
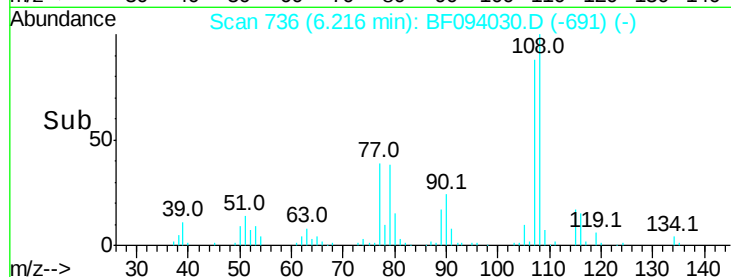
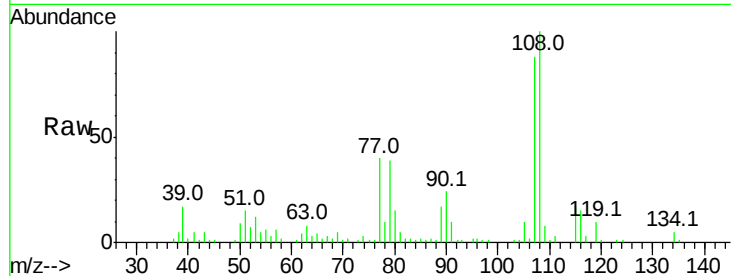
#17
2-Methylphenol
Concen: 5.21 ng
RT: 6.22 min Scan# 736
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

Tot Ion	107	Resp	47828
Ion	Ratio	Lower	Upper
107	100		
108	113.3	93.4	140.0
77	45.4	35.8	53.6
79	44.4	34.8	52.2

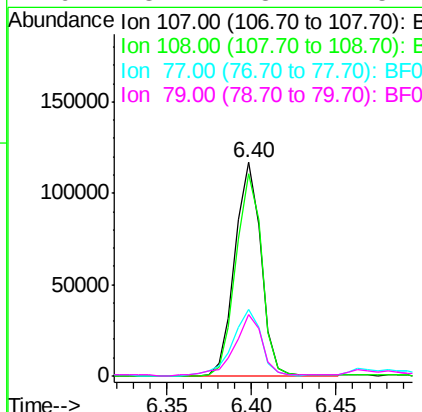
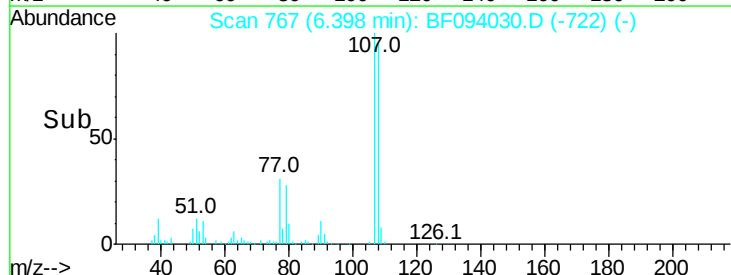
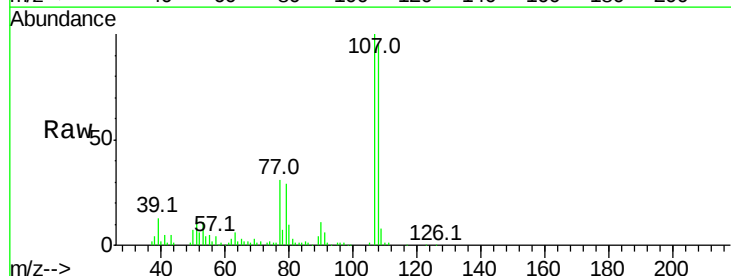
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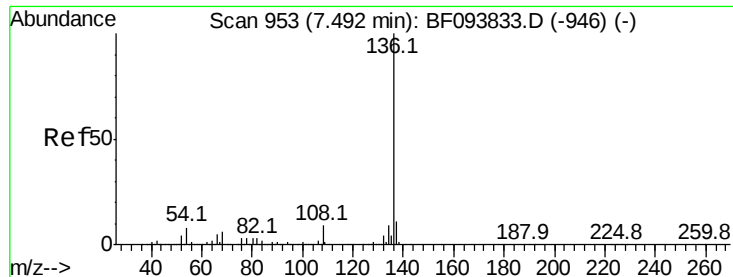
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#20
3+4-Methylphenols
Concen: 11.42 ng
RT: 6.40 min Scan# 767
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	107	Resp	126831
Ion	Ratio	Lower	Upper
107	100		
108	94.9	71.0	111.0
77	31.2	90.5	130.5#
79	28.7	8.4	48.4





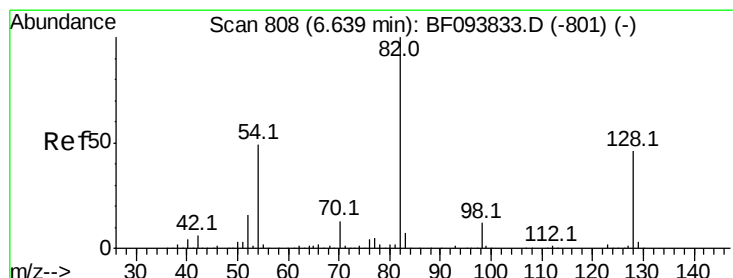
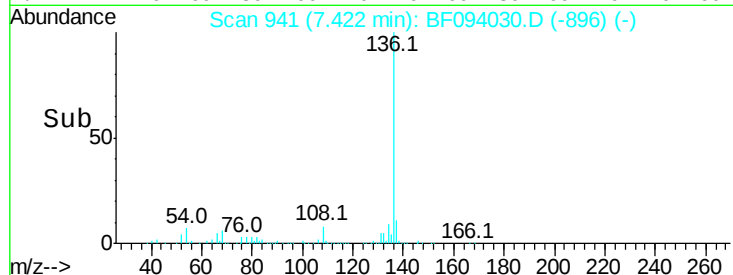
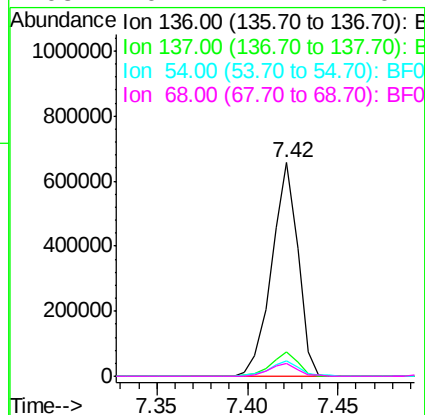
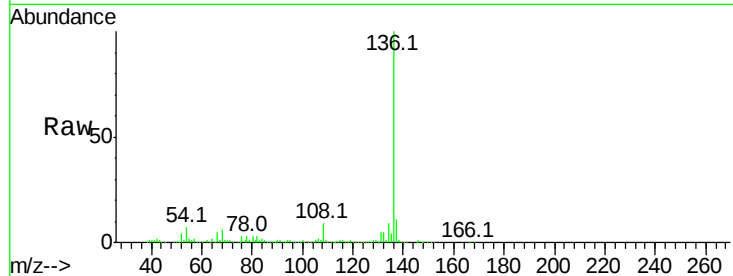
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.42 min Scan# 941
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	8.5	12.7	
54	7.5	4.9	7.3#	
68	6.2	4.1	6.1#	

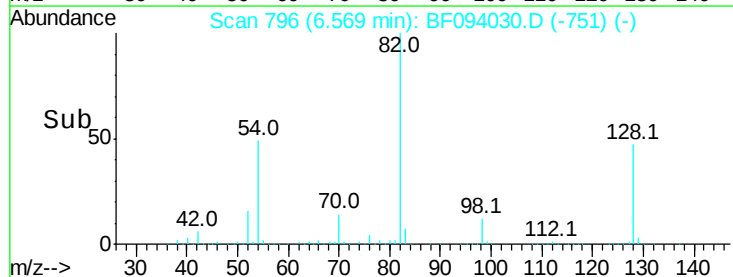
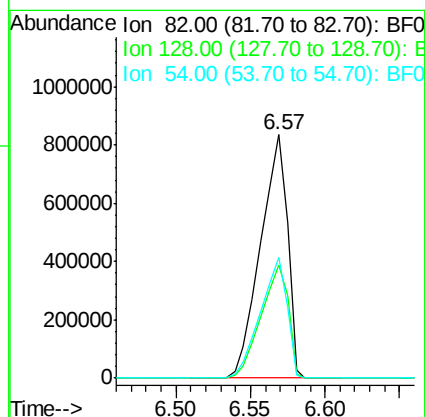
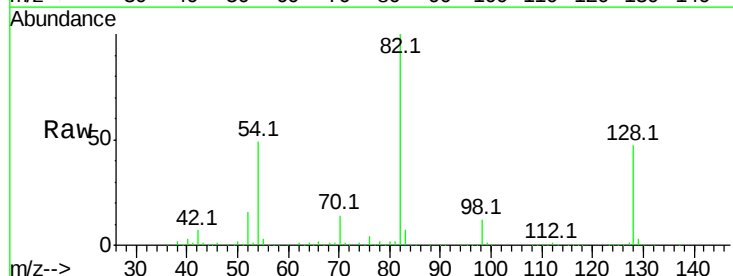
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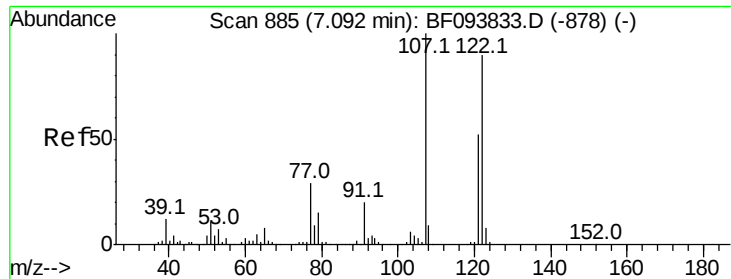
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#23
Nitrobenzene-d5
Concen: 89.31 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.7	34.0	51.0	
54	49.5	42.2	63.2	





#27

2,4-Dimethylphenol

Concen: 7.61 ng

RT: 7.04 min Scan# 876

Delta R.T. -0.02 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Instrument :

BNA_F

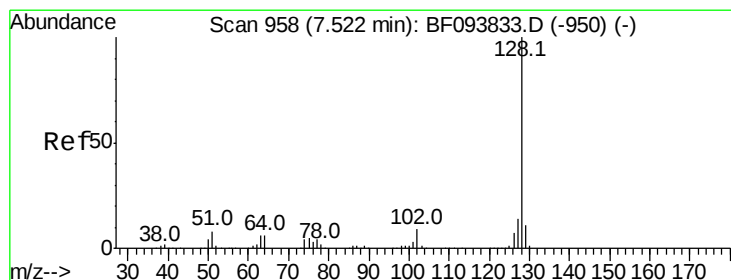
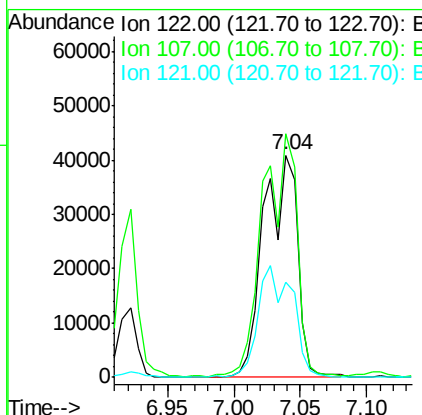
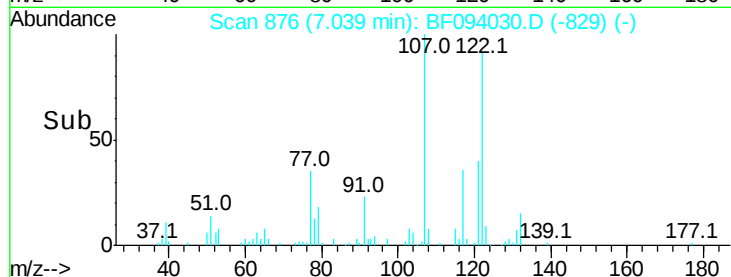
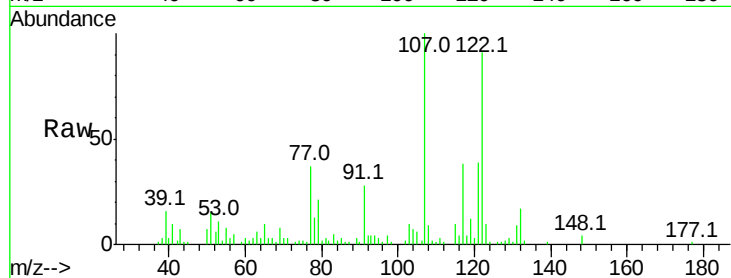
ClientSampleId :

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Tot Ion:	122	Resp:	71272
Ion	Ratio	Lower	Upper
122	100		
107	109.7	89.2	133.8
121	43.1	45.2	67.8#

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#31

Naphthalene

Concen: 16.74 ng

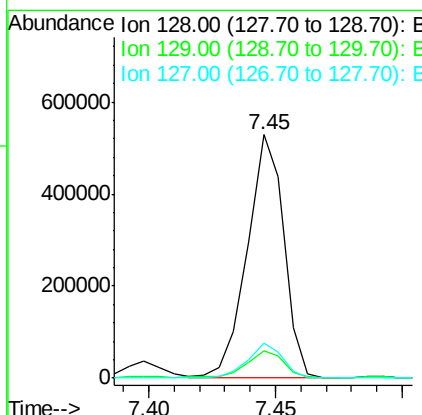
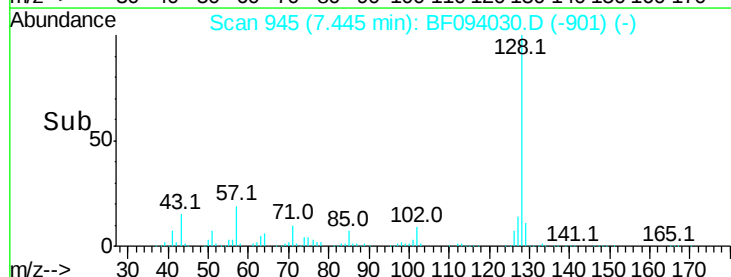
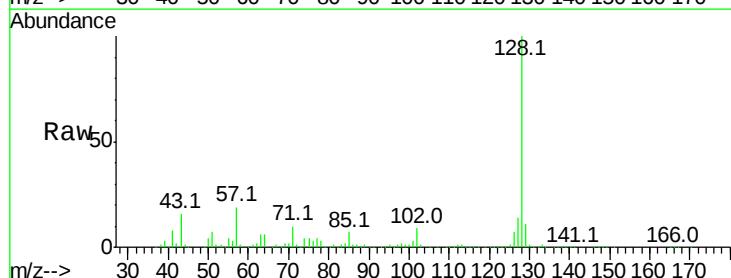
RT: 7.45 min Scan# 945

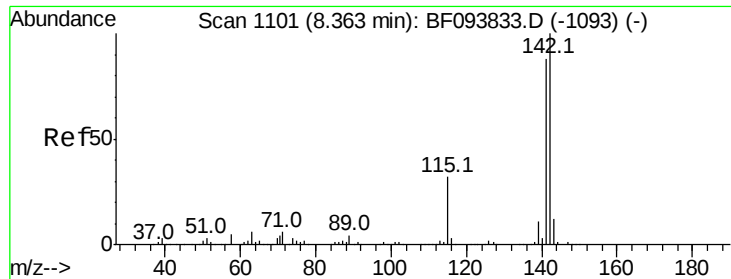
Delta R.T. -0.04 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Tgt Ion:	128	Resp:	531223
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	14.2	10.8	16.2





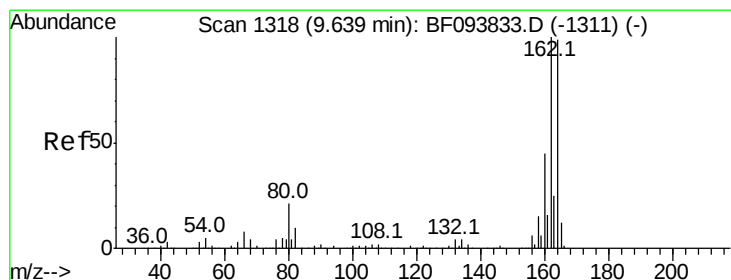
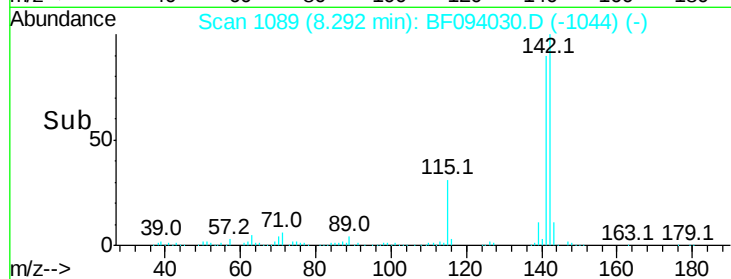
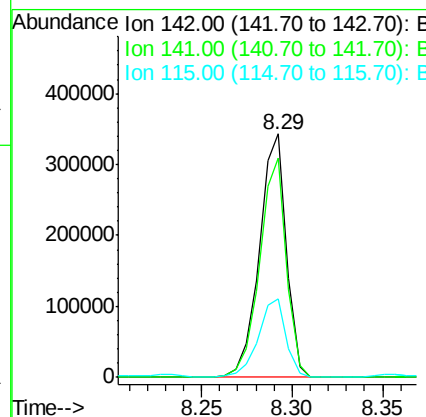
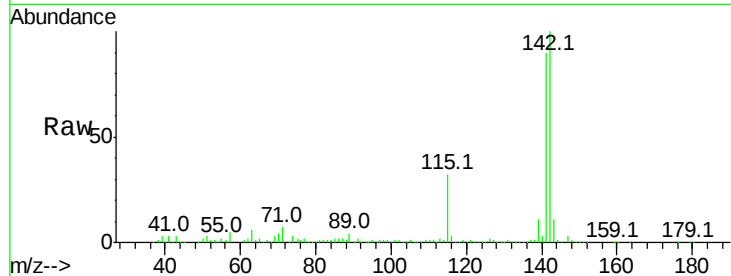
#37
 2-Methylnaphthalene
 Concen: 16.71 ng
 RT: 8.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
142	100	353349		
141	89.9	71.3	106.9	
115	32.0	27.1	40.7	

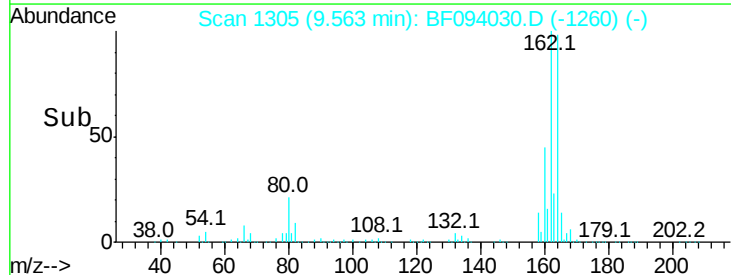
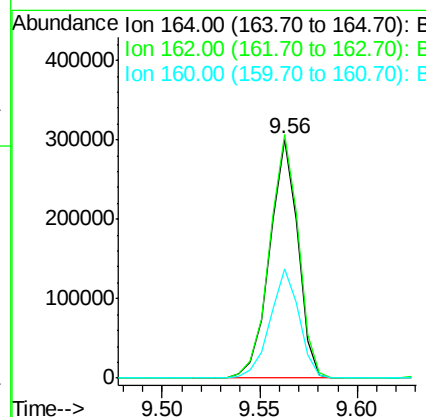
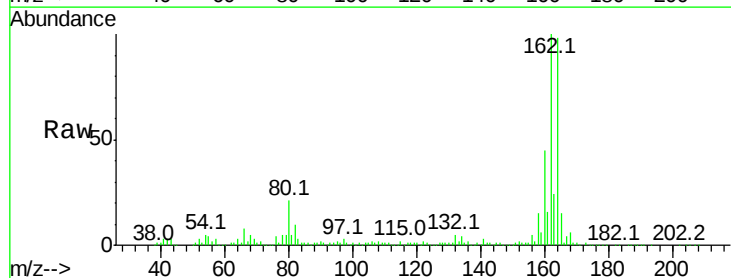
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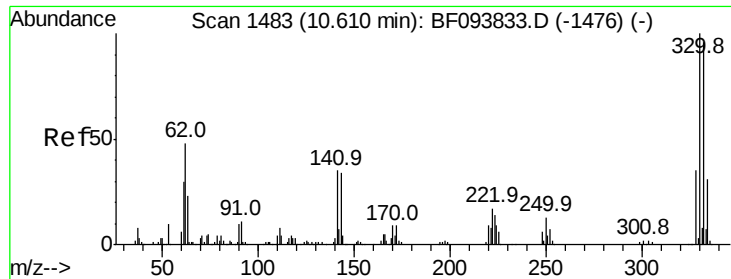
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.56 min Scan# 1305
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	301052		
162	101.9	82.6	123.8	
160	45.7	36.2	54.2	





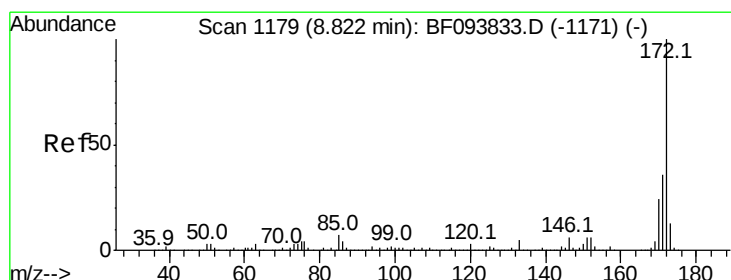
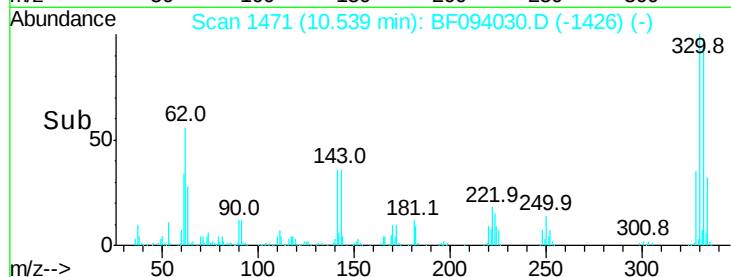
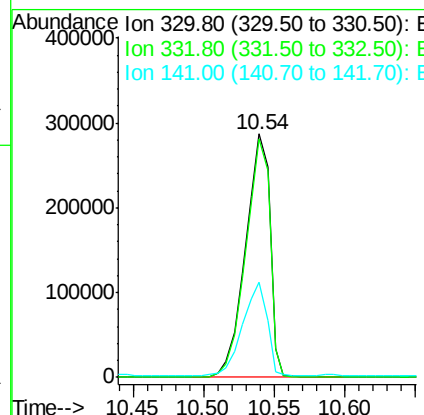
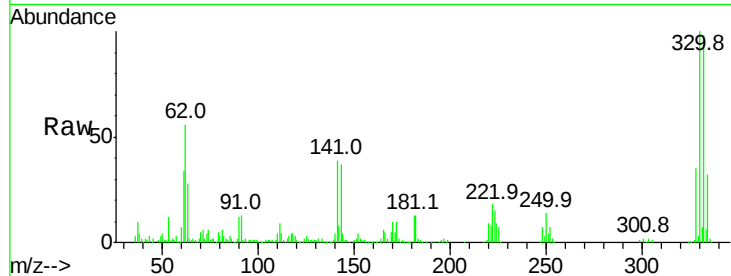
#41
 2,4,6-Tribromophenol
 Concen: 146.79 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB9-BASE

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.6	115.0
141	38.8	31.4	47.2

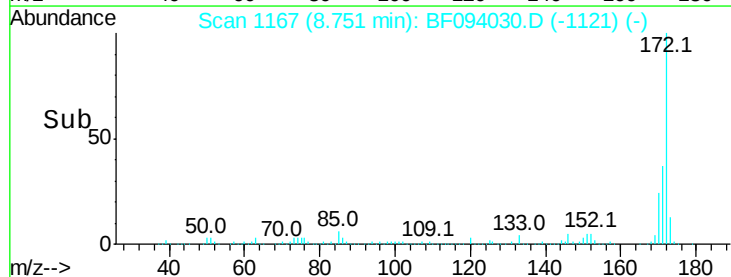
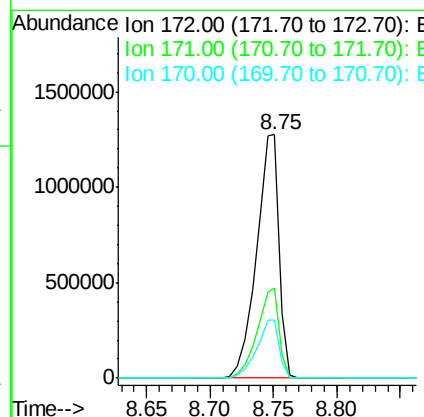
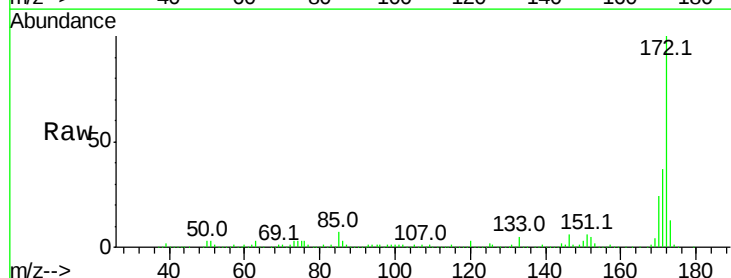
Manual Integrations
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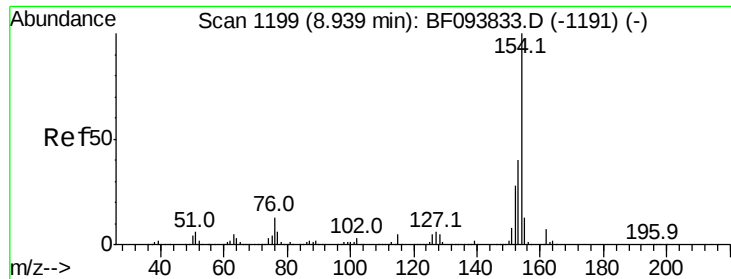
mohammad
 3/30/2017 2:31:44 PM



#44
 2-Fluorobiphenyl
 Concen: 80.28 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	23.9	19.8	29.8





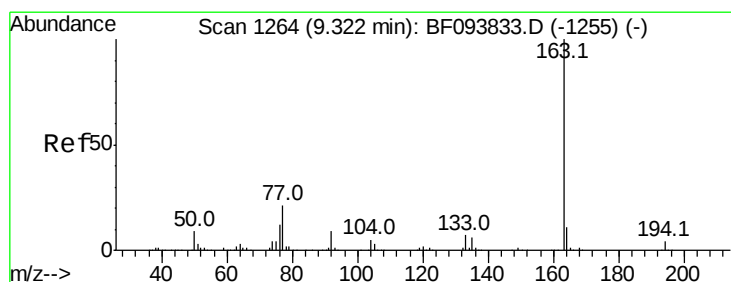
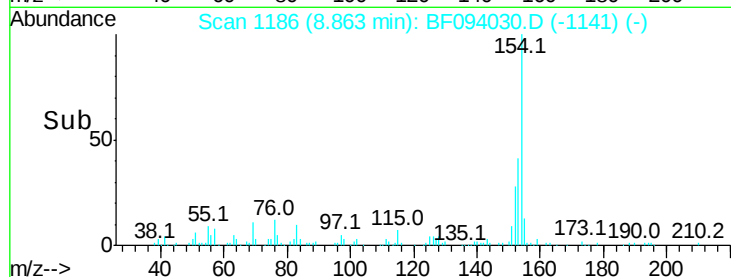
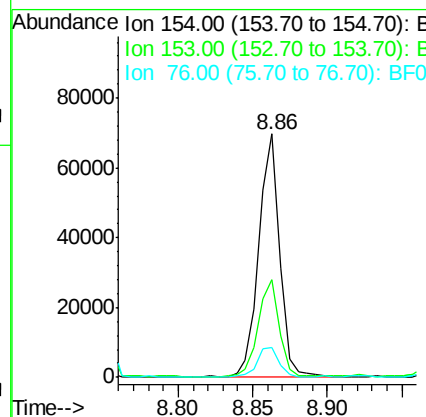
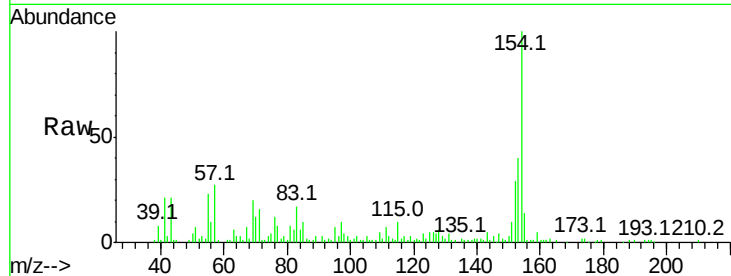
#45
 1,1'-Biphenyl
 Concen: 2.76 ng
 RT: 8.86 min Scan# 1186
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB9-BASE

Tot Ion:	154	Resp:	67037
Ion Ratio	Lower	Upper	
154	100		
153	40.4	21.2	61.2
76	12.3	0.0	29.9

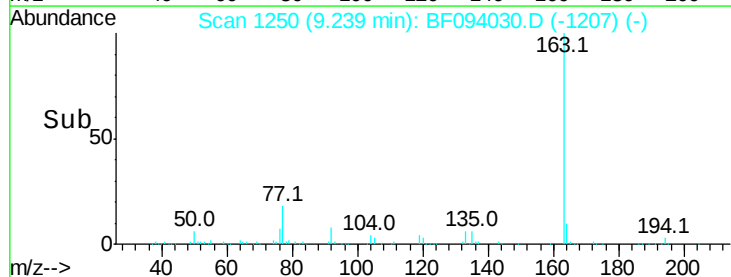
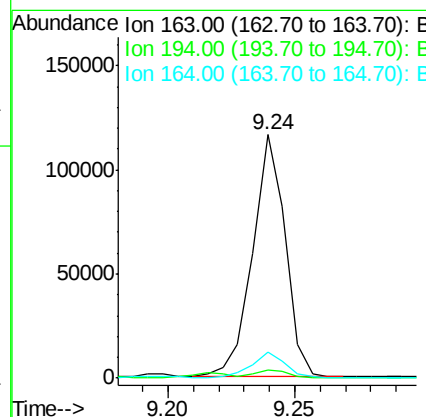
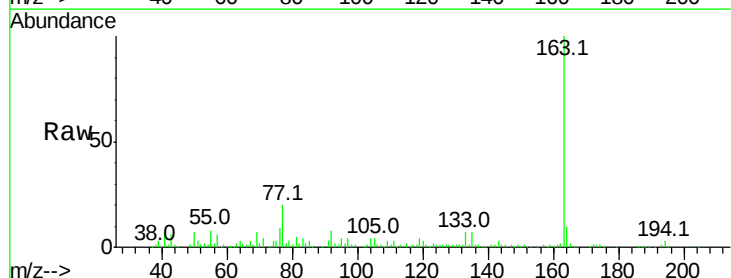
Manual Integrations
 APPROVED

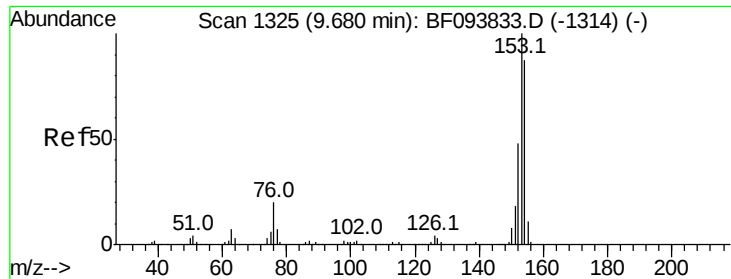
mohammad
 3/30/2017 2:31:44 PM



#49
 Dimethylphthalate
 Concen: 4.89 ng
 RT: 9.24 min Scan# 1250
 Delta R.T. -0.05 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Tgt Ion:	163	Resp:	104663
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.6	4.0
164	10.5	8.4	12.6





#51

Acenaphthene

Concen: 13.00 ng

RT: 9.60 min Scan# 1312

Delta R.T. -0.04 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Instrument :

BNA_F

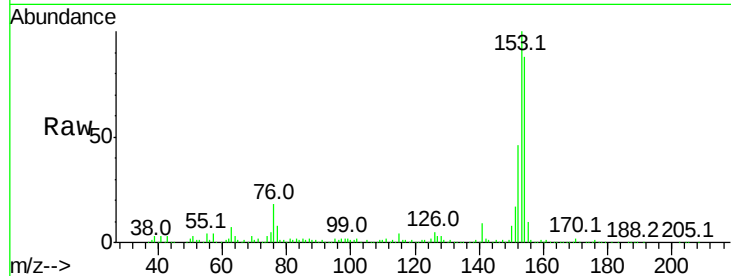
ClientSampleId :

E2-BB9-BASE

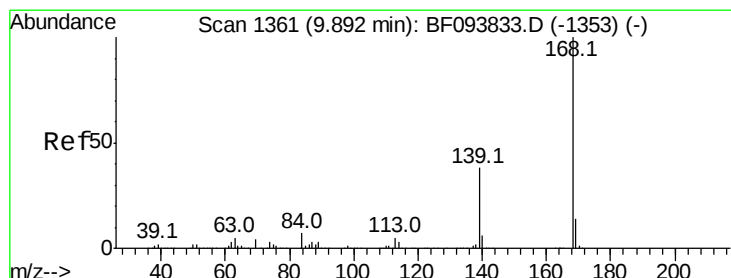
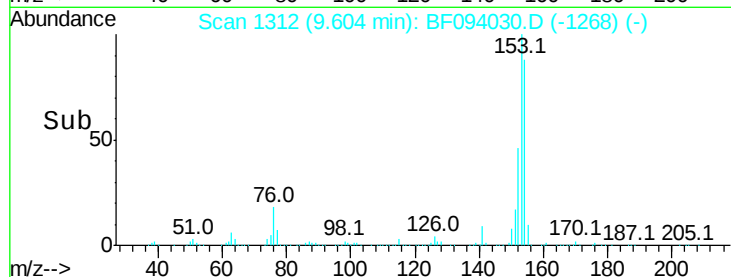
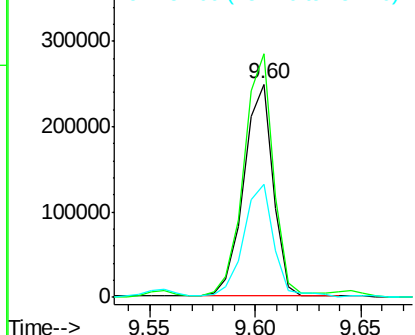
Tot Ion:	154	Resp:	239655
Ion Ratio	Lower	Upper	
154	100		
153	114.1	90.5	135.7
152	52.9	43.6	65.4

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 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 7.50 ng

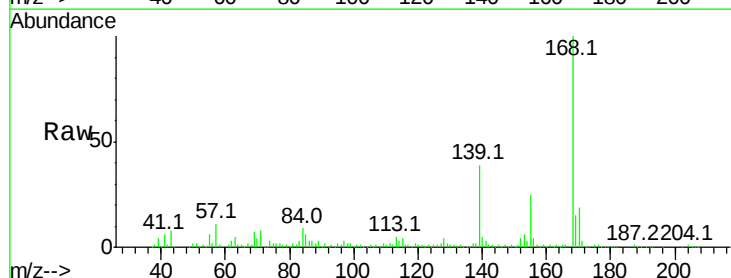
RT: 9.82 min Scan# 1348

Delta R.T. -0.04 min

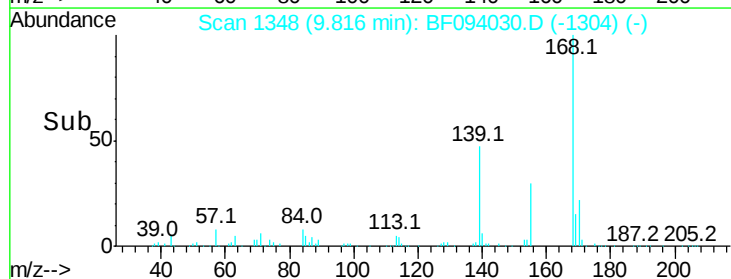
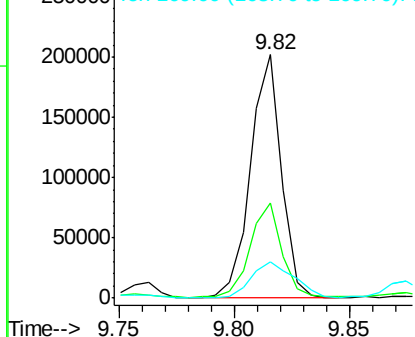
Lab File: BF094030.D

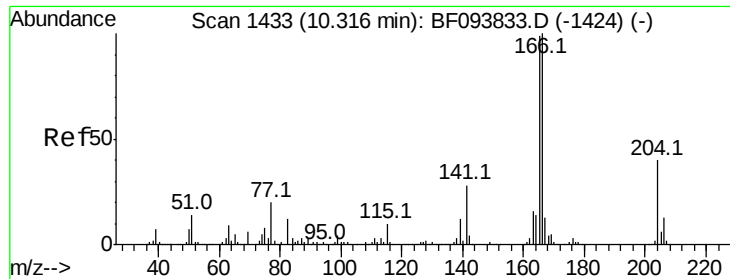
Acq: 29 Mar 2017 20:39

Tgt Ion:	168	Resp:	188287
Ion Ratio	Lower	Upper	
168	100		
139	38.9	30.6	45.8
169	14.8	10.8	16.2



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





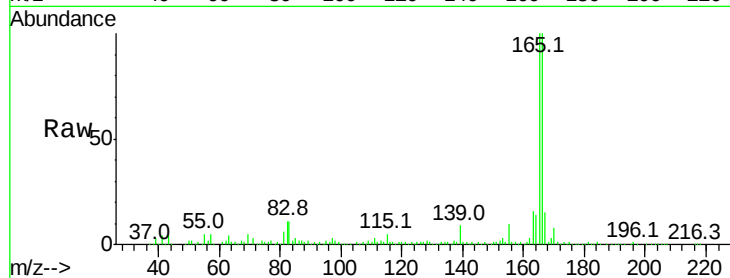
#57
Fluorene
 Concen: 10.91 ng
 RT: 10.24 min Scan# 1420
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB9-BASE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		227076		
165	99.9	78.8	118.2		
167	14.5	10.6	16.0		

Manual Integrations
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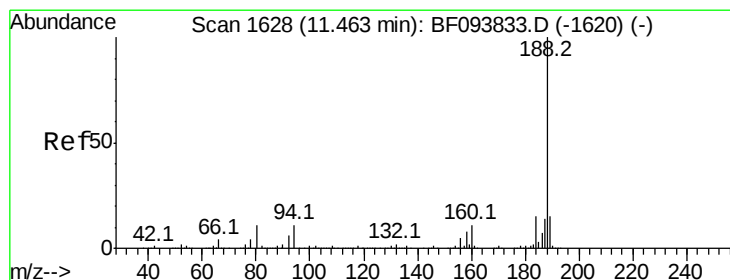
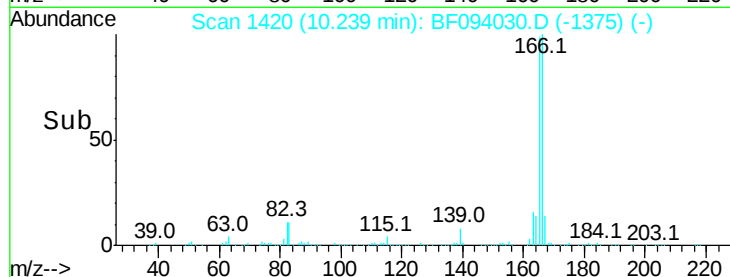
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

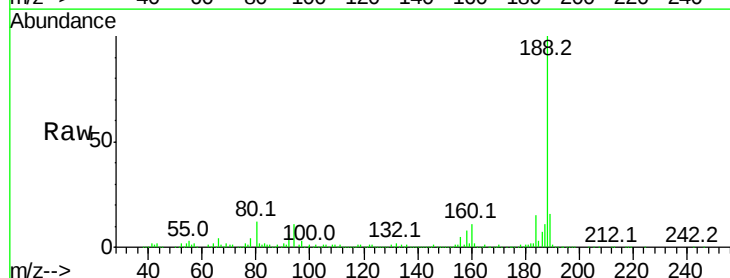
Ion 167.00 (166.70 to 167.70): E

Time-->



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1615
 Delta R.T. -0.04 min
 Lab File: BF094030.D
 Acq: 29 Mar 2017 20:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		514144		
94	11.4	9.4	14.2		
80	12.4	10.2	15.2		



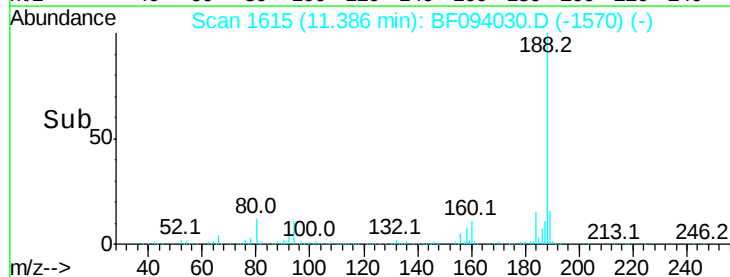
Abundance

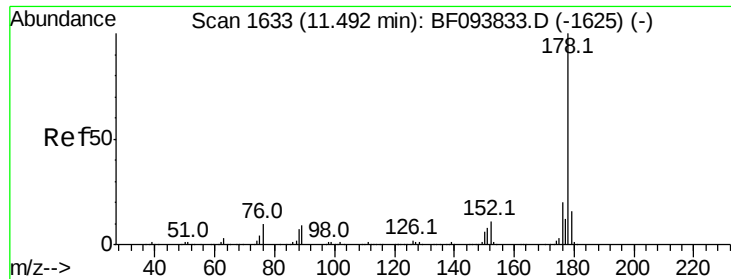
Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time-->





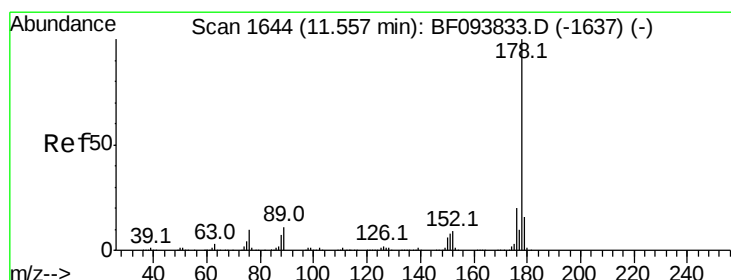
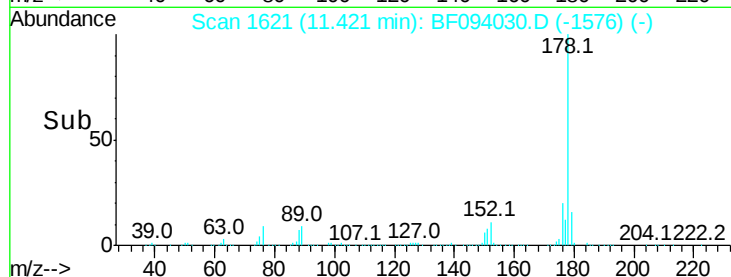
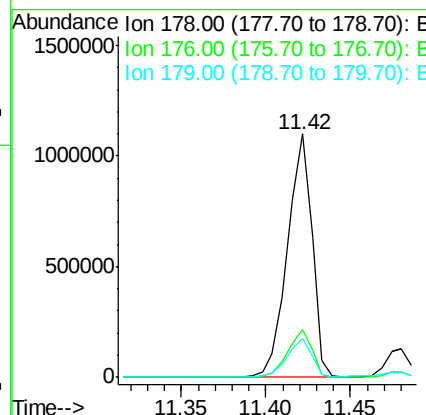
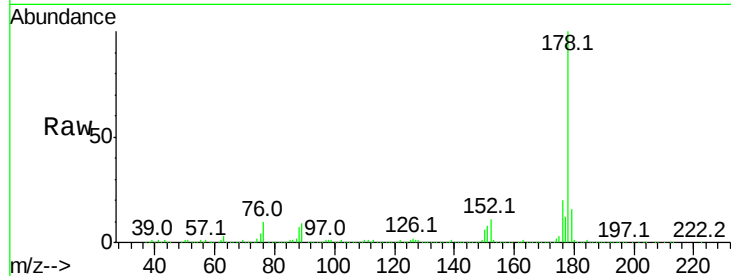
#70
Phenanthrene
Concen: 38.46 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

Tot Ion:178 Resp: 1100039
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.8 12.6 19.0

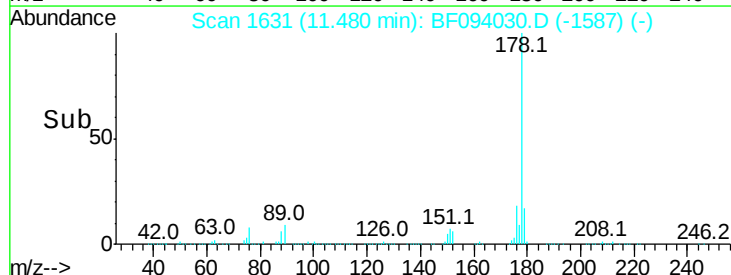
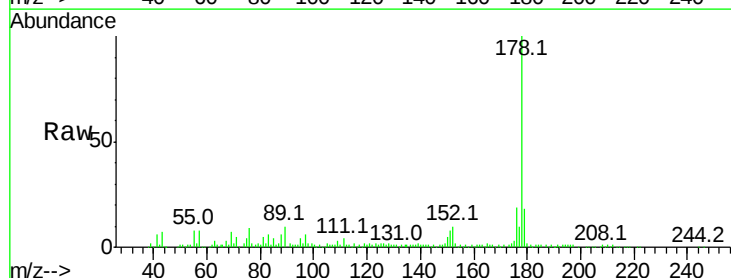
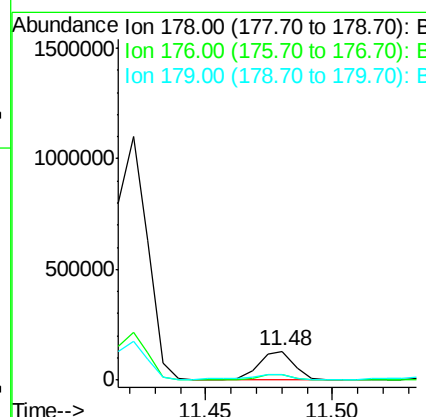
Manual Integrations
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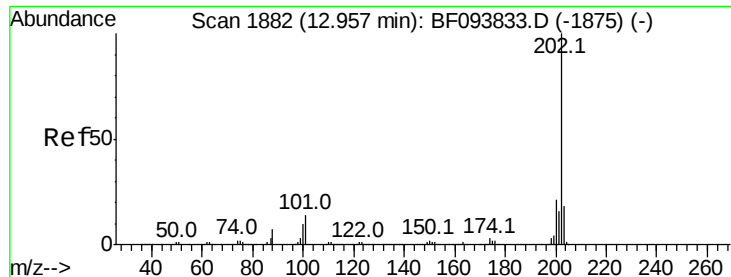
mohammad
3/30/2017 2:31:44 PM



#71
Anthracene
Concen: 4.28 ng
RT: 11.48 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion:178 Resp: 125931
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 18.0 12.7 19.1





#74

Fluoranthene

Concen: 25.85 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Instrument :

BNA_F

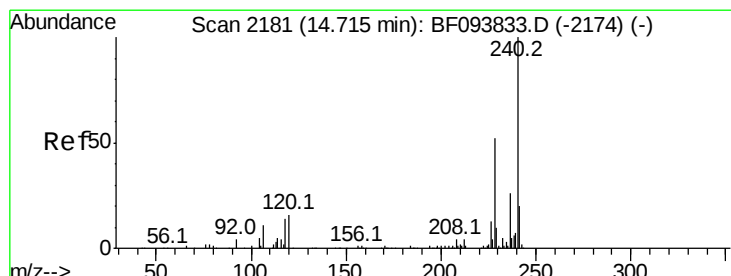
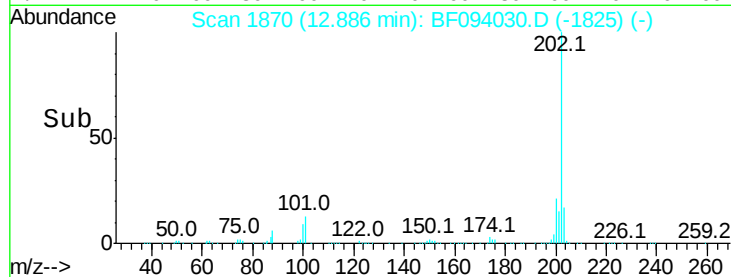
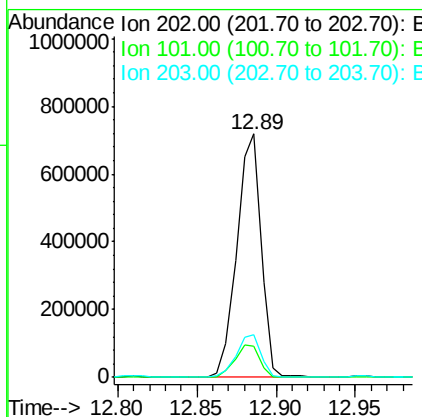
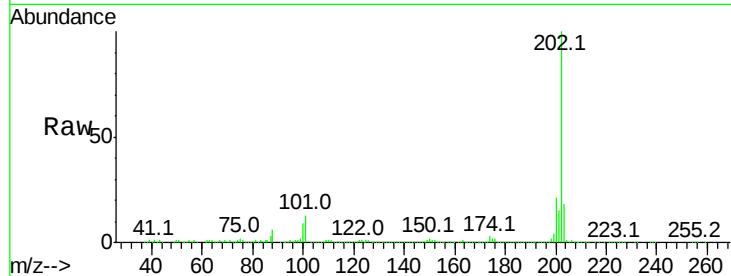
ClientSampleId :

E2-BB9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
202	100	757182		
101	12.7	0.0	33.2	
203	17.5	0.0	38.1	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

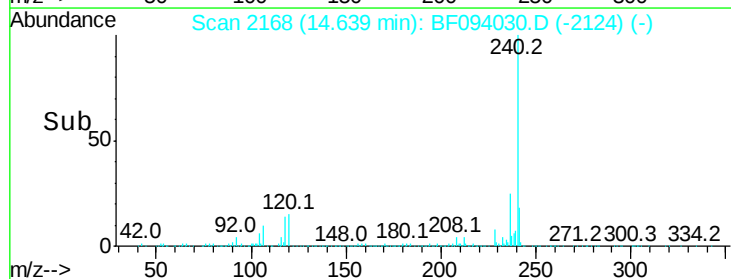
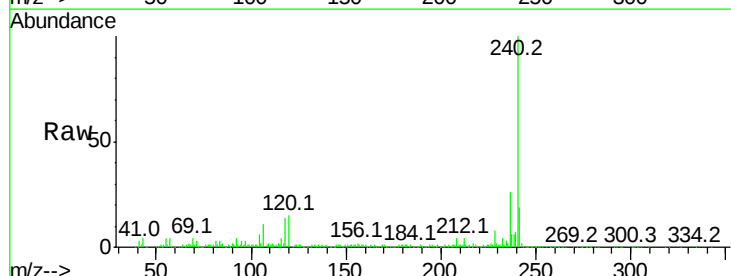
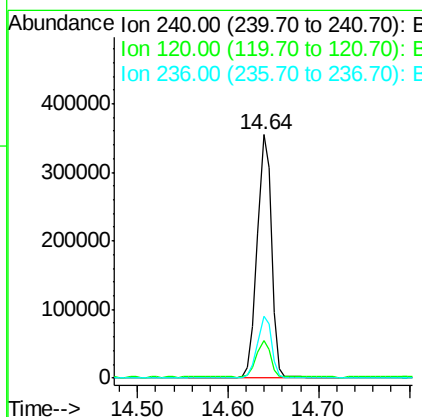
RT: 14.64 min Scan# 2168

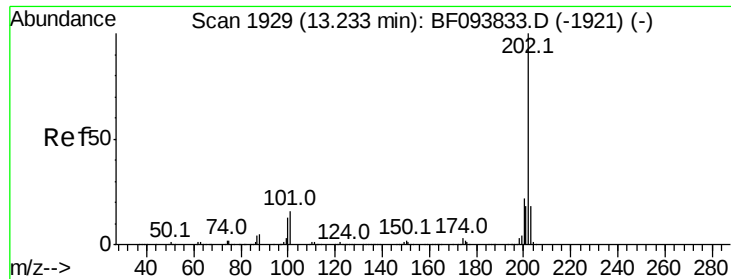
Delta R.T. -0.04 min

Lab File: BF094030.D

Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	385570		
120	15.4	5.8	8.8#	
236	25.5	20.5	30.7	





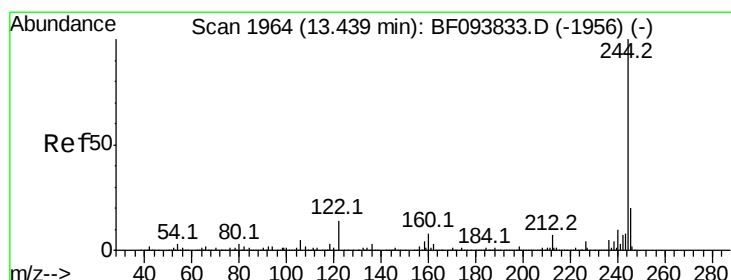
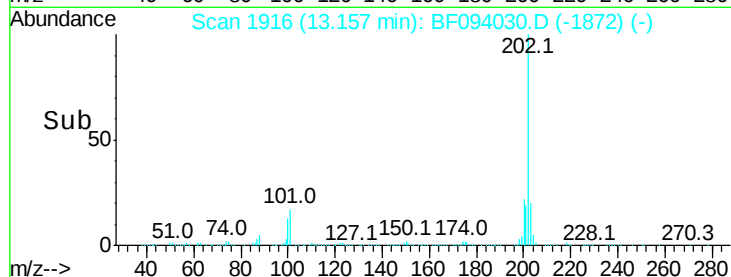
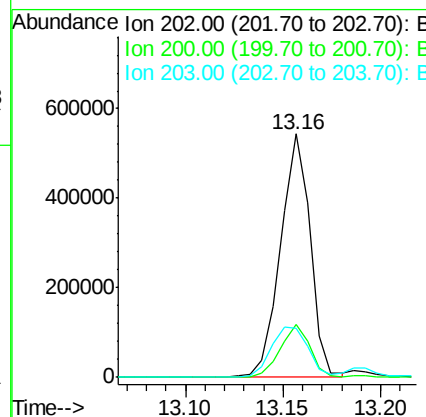
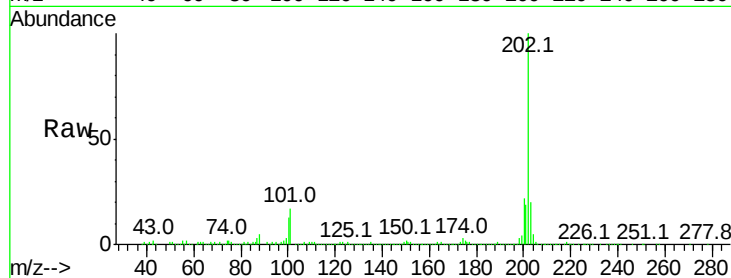
#77
Pvrene
Concen: 20.36 ng
RT: 13.16 min Scan# 1916
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.7	17.6	26.4
203	19.9	14.4	21.6

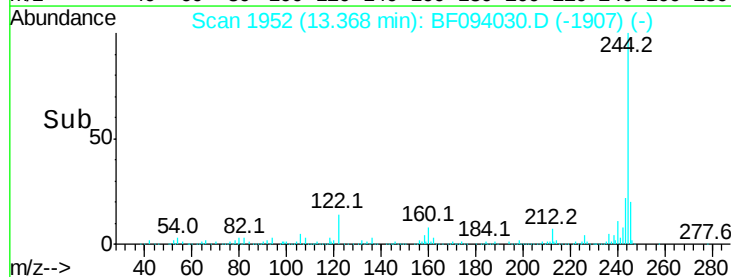
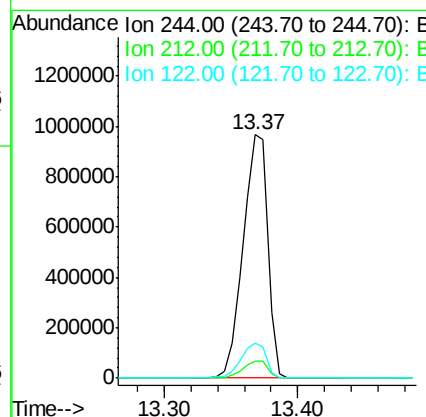
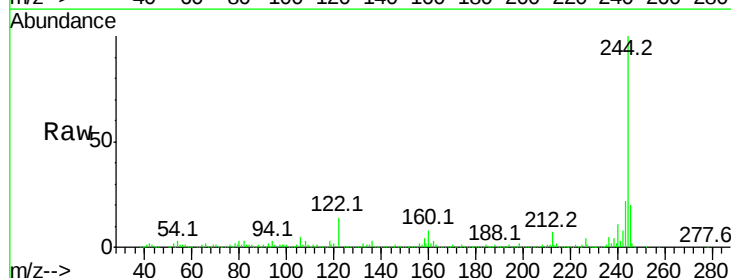
Manual Integrations
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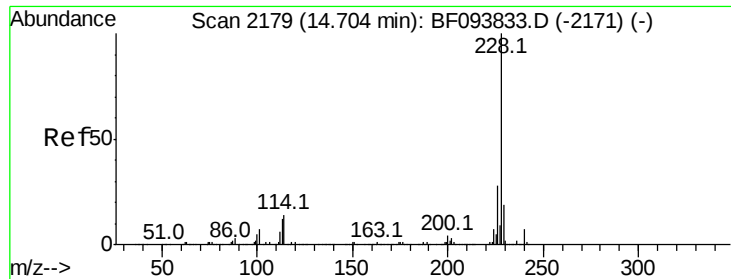
mohammad
3/30/2017 2:31:44 PM



#78
Terphenyl-d14
Concen: 71.85 ng
RT: 13.37 min Scan# 1952
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.4	10.3	15.5





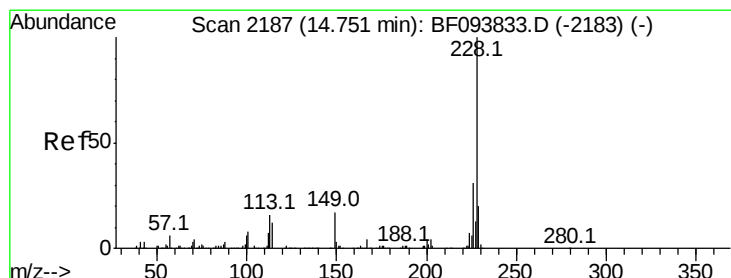
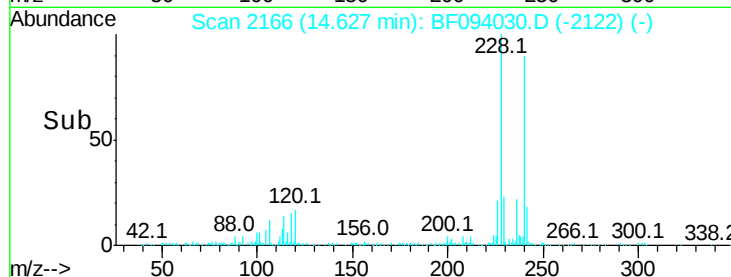
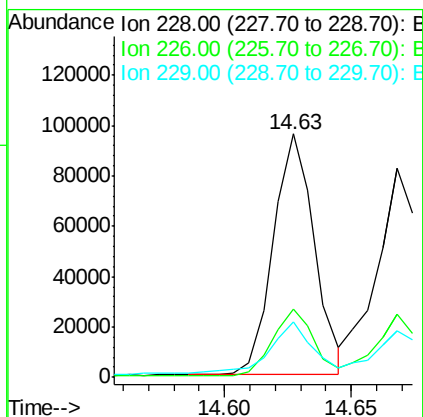
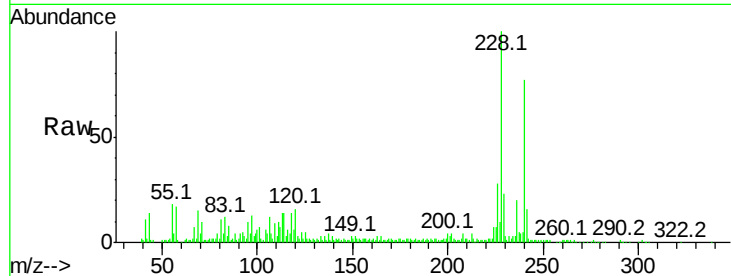
#80
Benzo(a)anthracene
Concen: 4.83 ng
RT: 14.63 min Scan# 2166
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

Tot Ion	Ratio	Resp	Lower	Upper
228	100			
226	28.0		22.6	33.8
229	23.0		16.3	24.5

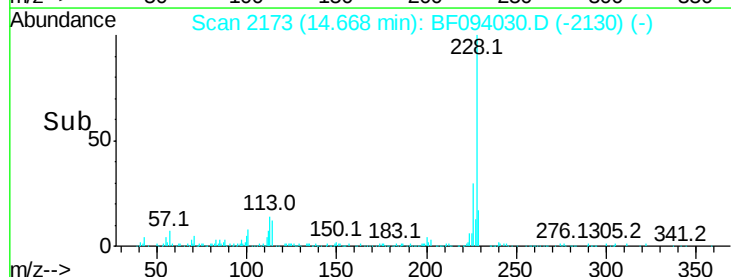
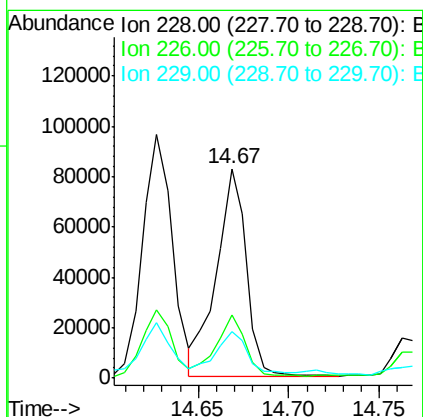
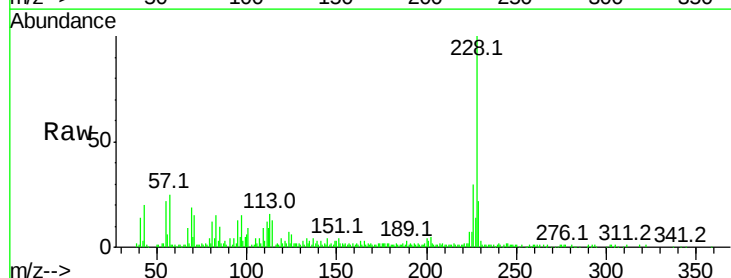
Manual Integrations
APPROVED

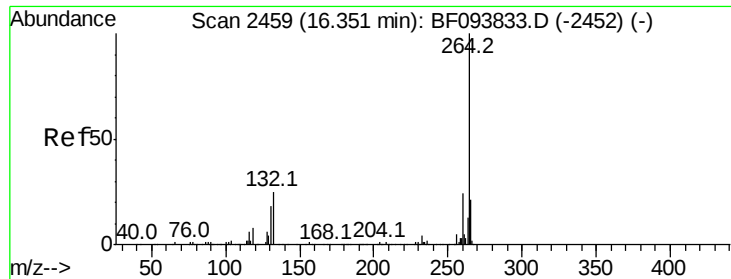
mohammad
3/30/2017 2:31:44 PM



#82
Chrysene
Concen: 4.55 ng
RT: 14.67 min Scan# 2173
Delta R.T. -0.05 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.4		24.9	37.3
229	22.4		15.8	23.6





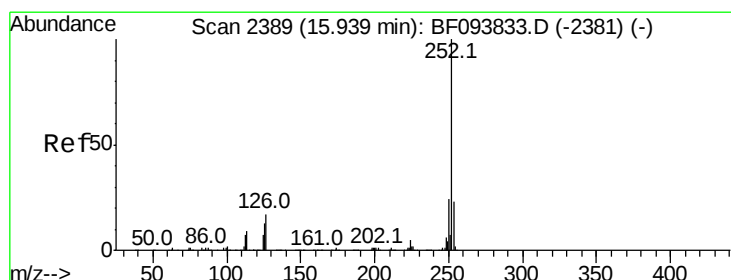
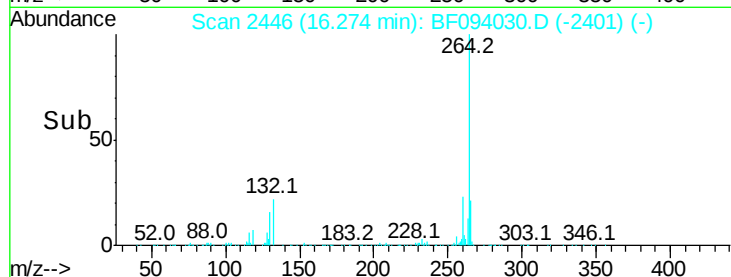
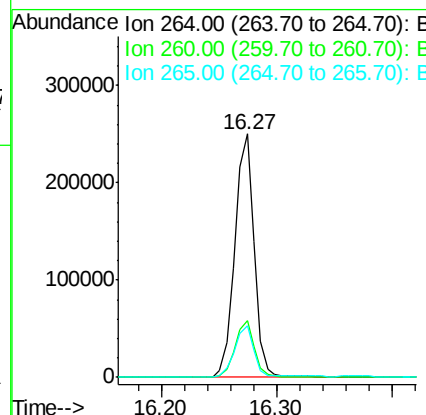
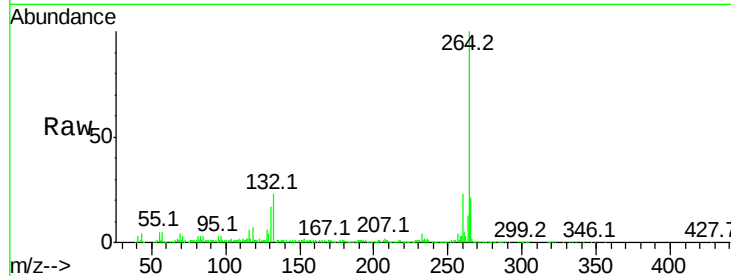
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.27 min Scan# 2446
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Instrument :
BNA_F
ClientSampleId :
E2-BB9-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.5	29.3
265	21.2	17.2	25.8

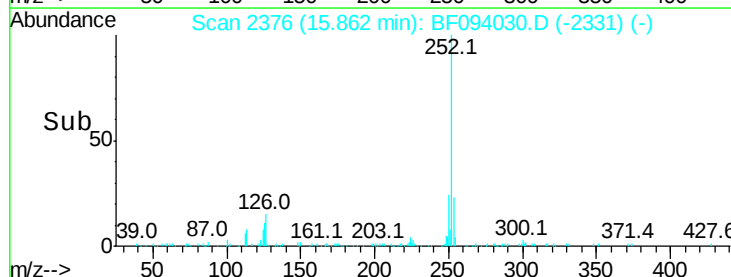
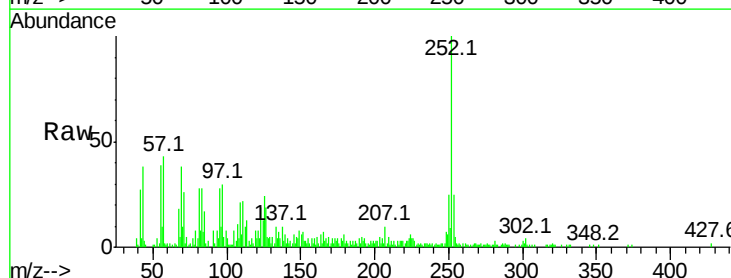
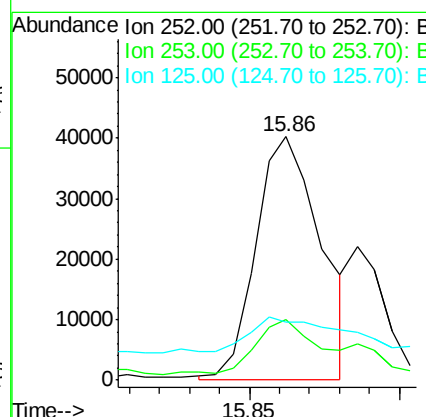
Manual Integrations
APPROVED

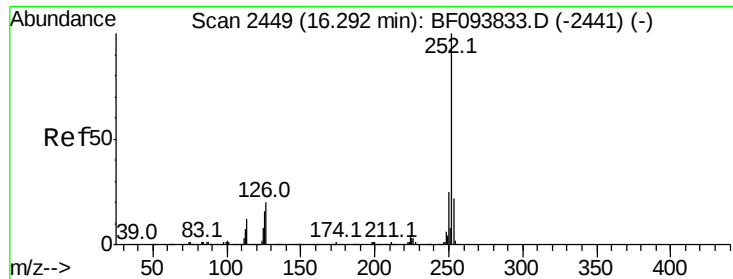
mohammad
3/30/2017 2:31:44 PM



#87
Benzo(b)fluoranthene
Concen: 3.40 ng m
RT: 15.86 min Scan# 2376
Delta R.T. -0.04 min
Lab File: BF094030.D
Acq: 29 Mar 2017 20:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.1	27.1
125	24.1	9.8	14.8





#89

Benzo(a)pyrene

Concen: 2.21 ng

RT: 16.21 min Scan# 2435

Delta R.T. -0.04 min

Lab File: BF094030.D

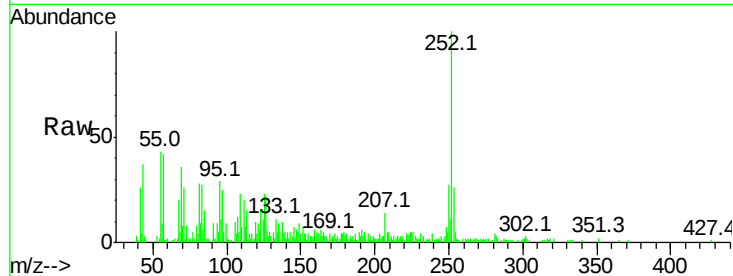
Acq: 29 Mar 2017 20:39

Instrument :

BNA_F

ClientSampleId :

E2-BB9-BASE



Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.5	26.3
125	22.9	11.0	16.4

Manual Integrations
APPROVED

mohammad
3/30/2017 2:31:44 PM

