

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040717\
 Data File : BF094299.D
 Acq On : 8 Apr 2017 4:50
 Operator : SJ/MA
 Sample : I2563-02DL 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA10-NSWDL

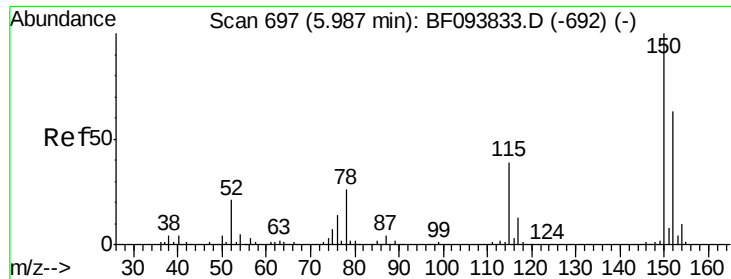
Manual Integrations
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Quant Time: Apr 08 05:31:08 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 06 13:20:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.85	152	144798	20.00	ng	0.00
21) Naphthalene-d8	7.36	136	557731	20.00	ng	0.00
38) Acenaphthene-d10	9.49	164	226781	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	326495	20.00	ng	0.00
75) Chrysene-d12	14.57	240	277402	20.00	ng	0.00
86) Perylene-d12	16.21	264	236484	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	536021	62.52	ng	0.03
7) Phenol-d6	5.49	99	640544	60.40	ng	0.03
23) Nitrobenzene-d5	6.50	82	373497	38.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.47	330	91947	51.31	ng	0.00
44) 2-Fluorobiphenyl	8.67	172	487719	32.80	ng	-0.01
78) Terphenyl-d14	13.30	244	282706	22.84	ng	0.00
Target Compounds						Qvalue
10) Phenol	5.50	94	47570	3.94	ng	91
31) Naphthalene	7.38	128	79511	2.96	ng	99
48) Acenaphthylene	9.32	152	72880	3.06	ng	97
49) Dimethylphthalate	9.17	163	86941	5.39	ng	99
51) Acenaphthene	9.53	154	34898	2.51	ng	99
54) Dibenzofuran	9.75	168	45468	2.41	ng	97
57) Fluorene	10.17	166	57510	3.67	ng	97
70) Phenanthrene	11.35	178	643163	35.41	ng	99
71) Anthracene	11.41	178	144234	7.71	ng	96
72) Carbazole	11.62	167	61926	3.23	ng	98
74) Fluoranthene	12.82	202	912325	49.06	ng	99
77) Pyrene	13.09	202	856201	42.53	ng	98
80) Benzo(a)anthracene	14.56	228	395433	24.45	ng	97
82) Chrysene	14.61	228	362828	24.17	ng	96
85) Indeno(1,2,3-cd)pyrene	17.53	276	166751	12.83	ng	95
87) Benzo(b)fluoranthene	15.80	252	457464m	31.56	ng	
88) Benzo(k)fluoranthene	15.83	252	142028m	10.01	ng	
89) Benzo(a)pyrene	16.15	252	321020	24.05	ng	98
90) Dibenzo(a,h)anthracene	17.54	278	38668	3.42	ng	# 83
91) Benzo(a,h,i)perylene	17.93	276	148995	13.08	ng	96

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



#1

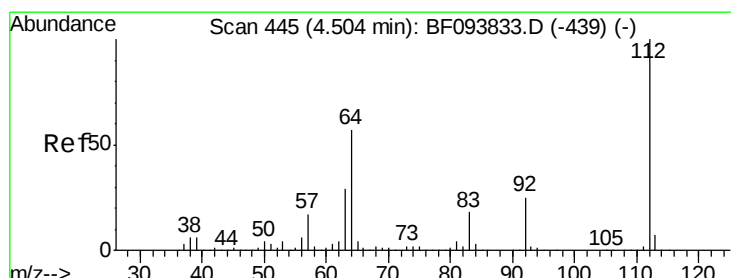
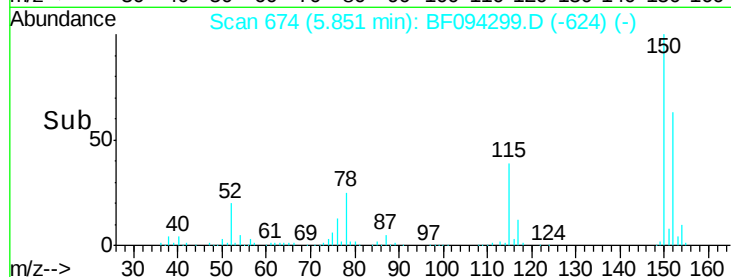
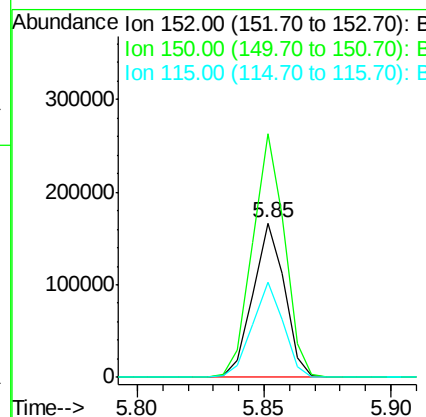
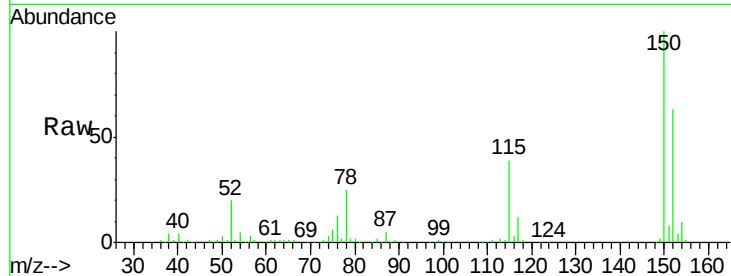
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.85 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampleId :
E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	126.2	189.2
115	61.7	52.2	78.2

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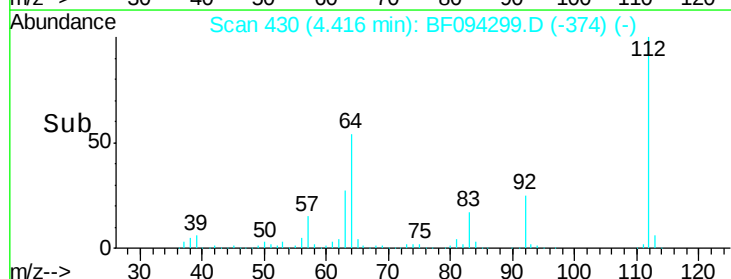
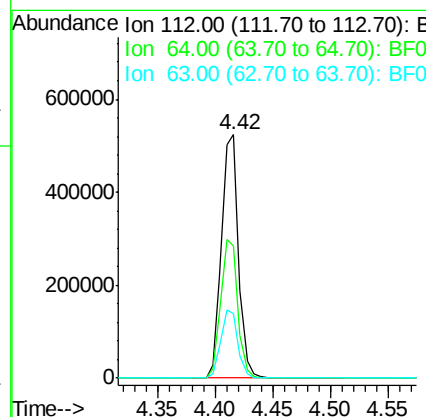
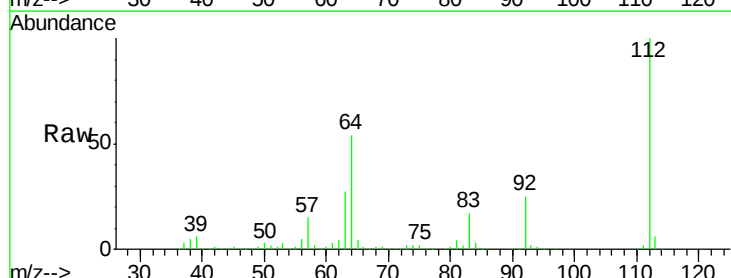
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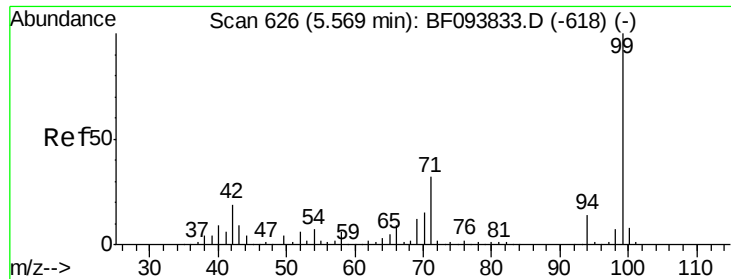


#5

2-Fluorophenol
Concen: 62.52 ng
RT: 4.42 min Scan# 430
Delta R.T. 0.03 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	46.0	69.0
63	26.6	23.4	35.0





#7

Phenol-d6

Concen: 60.40 ng

RT: 5.49 min Scan# 613

Delta R.T. 0.03 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

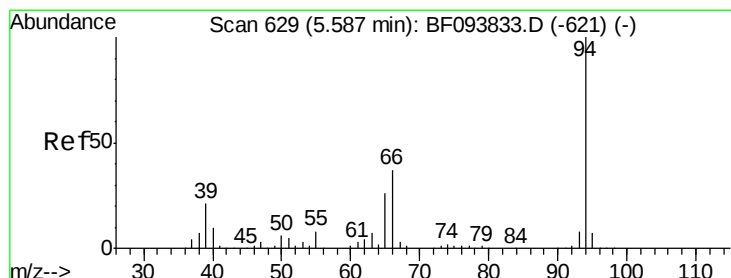
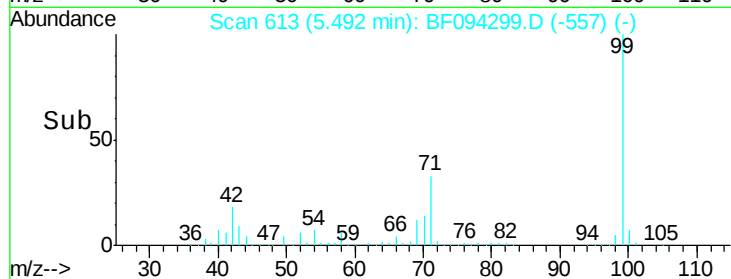
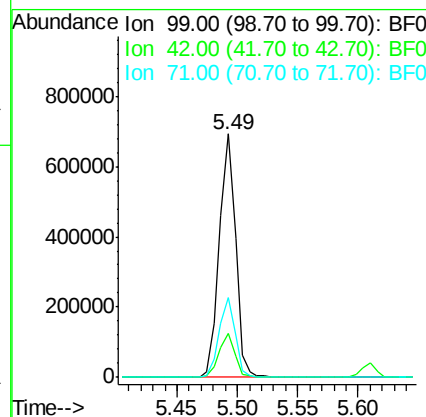
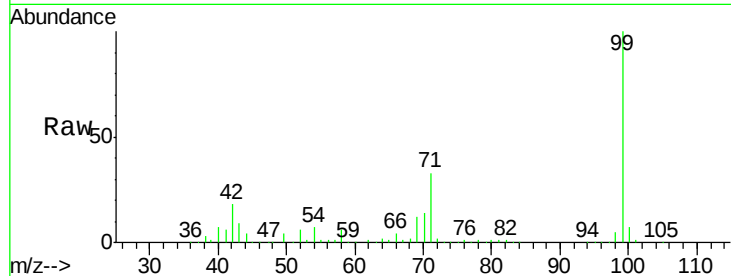
ClientSampleId :

E2-AA10-NSWDL

Tot Ion:	99	Resp:	640544
Ion Ratio	Lower	Upper	
99	100		
42	17.8	13.5	20.3
71	32.8	24.5	36.7

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#10

Phenol

Concen: 3.94 ng

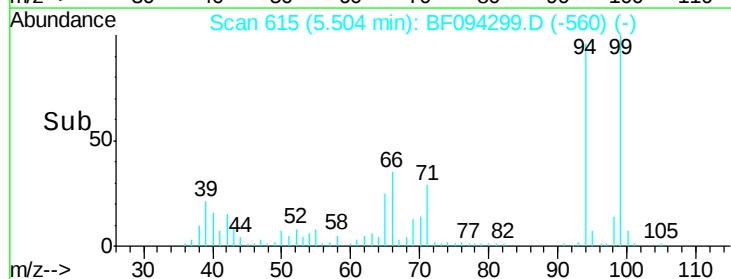
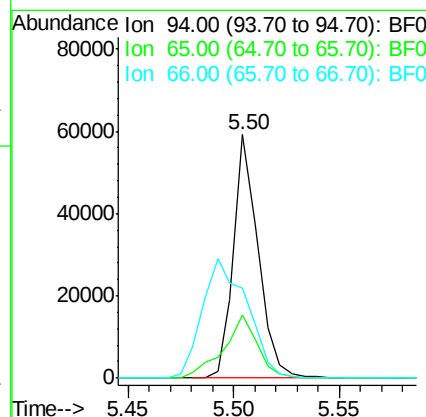
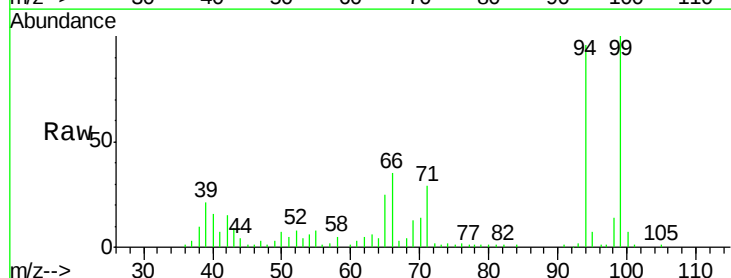
RT: 5.50 min Scan# 615

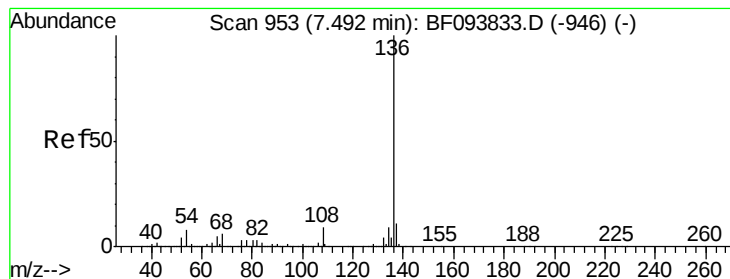
Delta R.T. 0.02 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Tgt Ion:	94	Resp:	47570
Ion Ratio	Lower	Upper	
94	100		
65	26.1	9.9	49.9
66	36.7	23.1	63.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.36 min Scan# 930

Delta R.T. -0.01 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

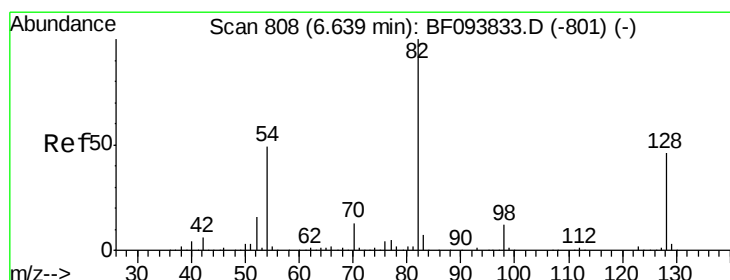
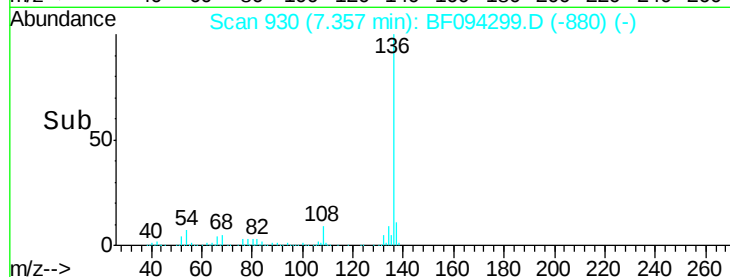
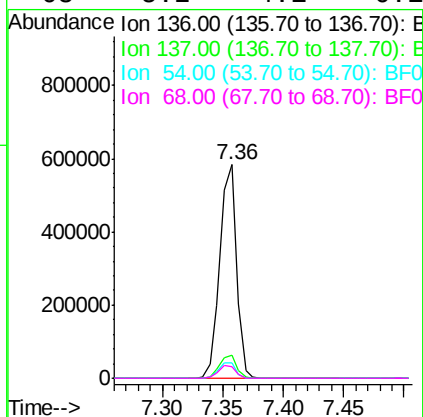
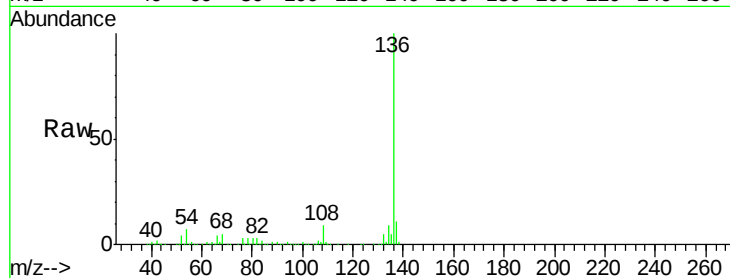
ClientSampleId :

E2-AA10-NSWDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		557731		
137	10.8		8.5	12.7	
54	7.2		4.9	7.3	
68	5.2		4.1	6.1	

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#23

Nitrobenzene-d5

Concen: 38.22 ng

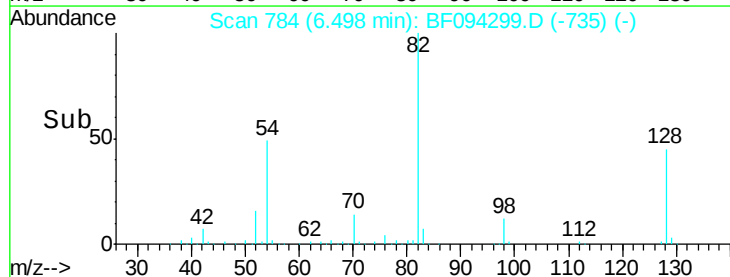
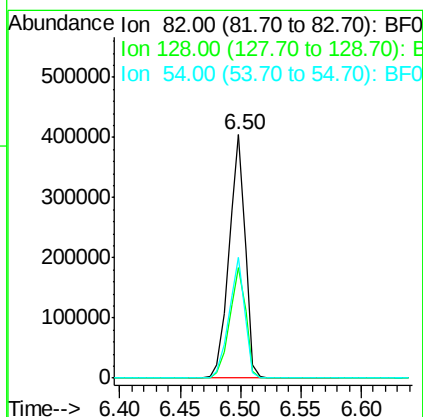
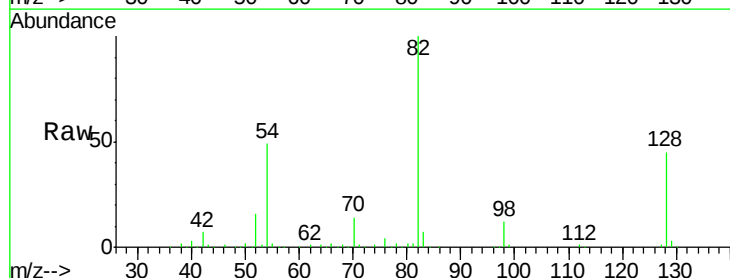
RT: 6.50 min Scan# 784

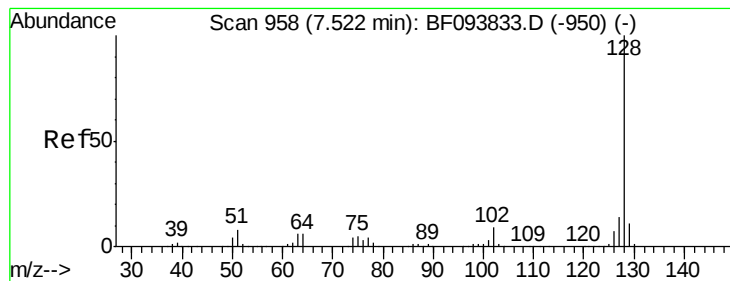
Delta R.T. -0.01 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		373497		
128	45.5		34.0	51.0	
54	49.4		42.2	63.2	





#31

Naphthalene

Concen: 2.96 ng

RT: 7.38 min Scan# 934

Delta R.T. -0.01 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

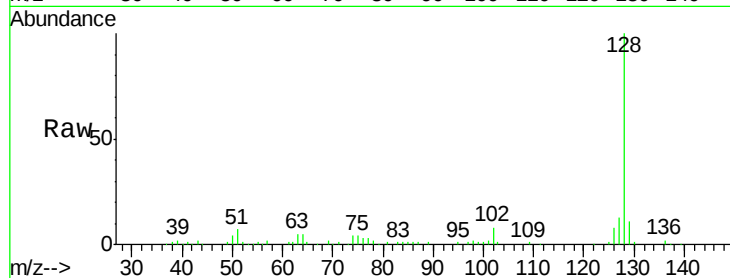
ClientSampleId :

E2-AA10-NSWDL

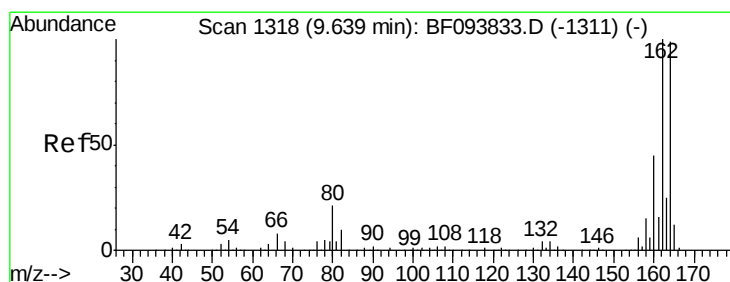
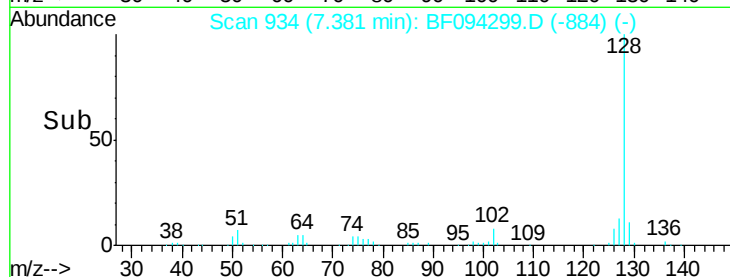
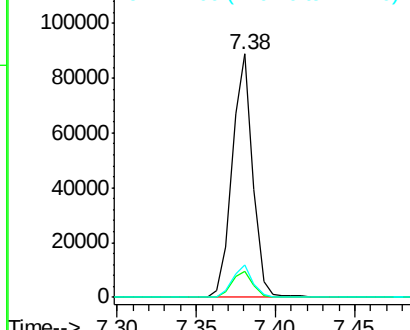
Tot Ion:	128	Resp:	79511
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.0	13.6
127	13.5	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

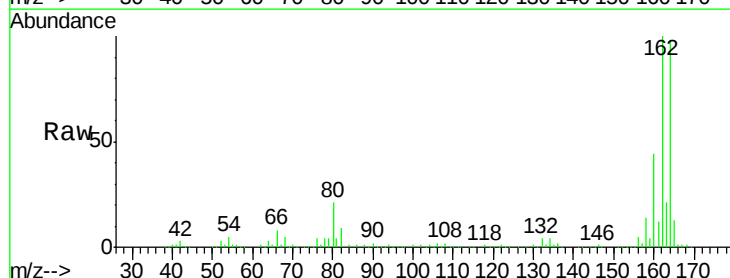
RT: 9.49 min Scan# 1293

Delta R.T. -0.01 min

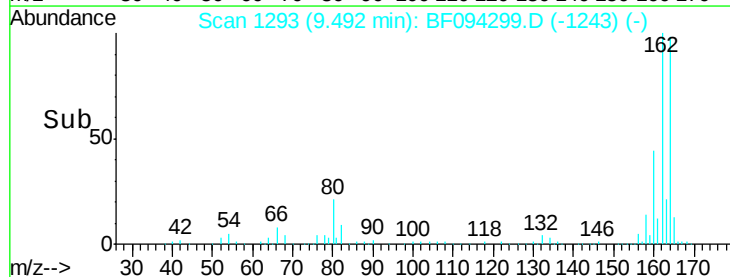
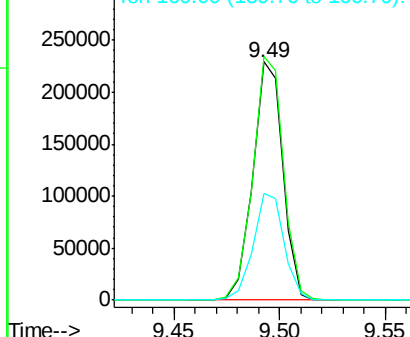
Lab File: BF094299.D

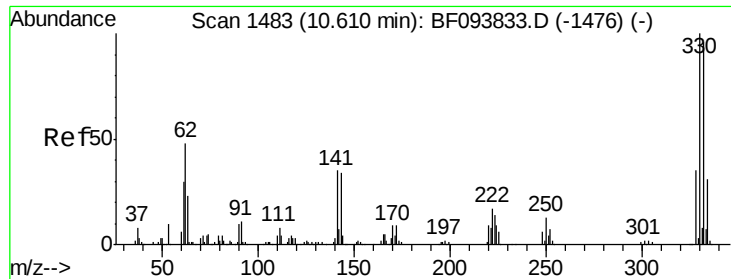
Acq: 8 Apr 2017 4:50

Tgt Ion:	164	Resp:	226781
Ion Ratio	Lower	Upper	
164	100		
162	102.2	82.6	123.8
160	44.6	36.2	54.2



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





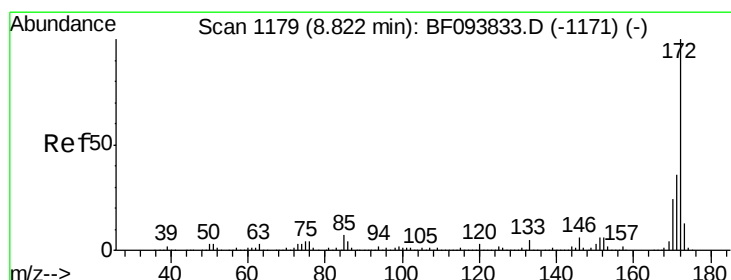
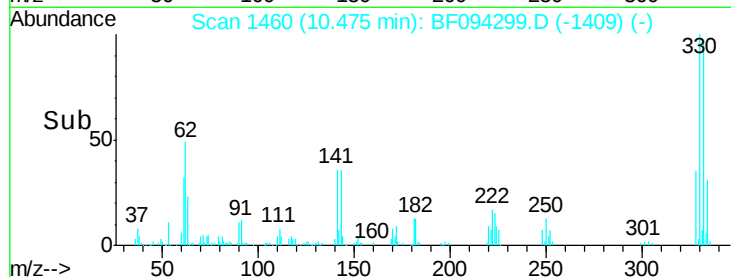
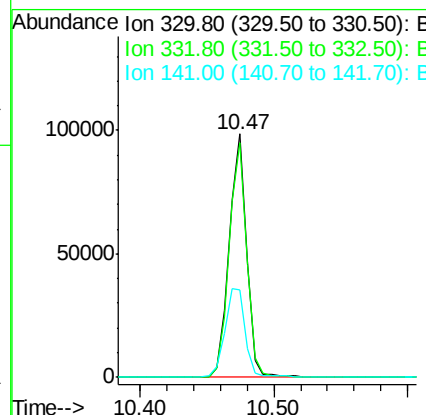
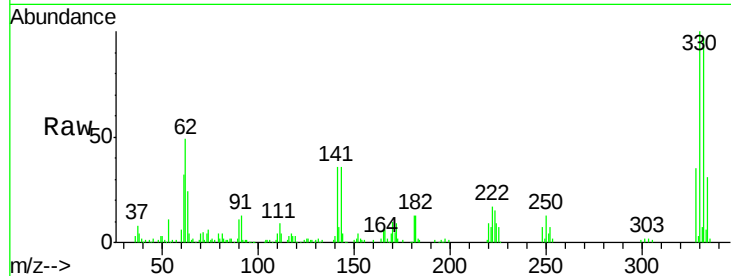
#41
 2,4,6-Tribromophenol
 Concen: 51.31 ng
 RT: 10.47 min Scan# 1460
 Delta R.T. -0.00 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.6	115.0
141	42.4	31.4	47.2

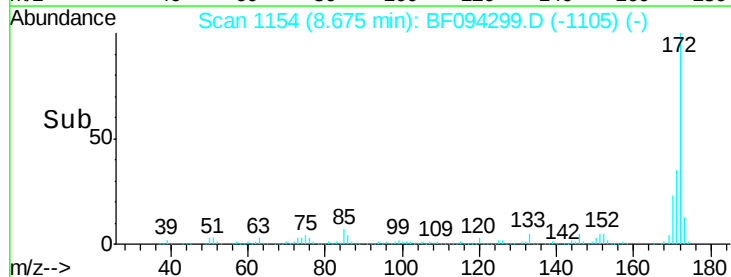
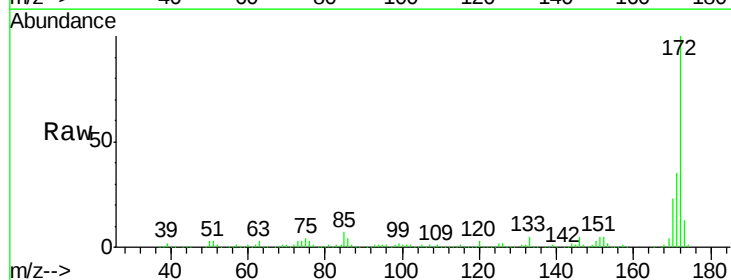
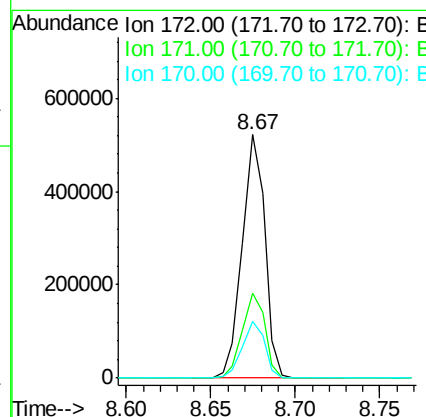
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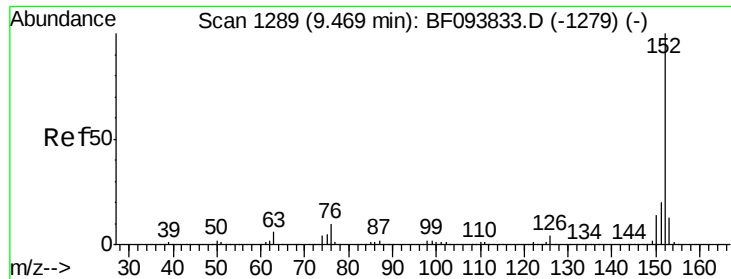
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#44
 2-Fluorobiphenyl
 Concen: 32.80 ng
 RT: 8.67 min Scan# 1154
 Delta R.T. -0.01 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.6	44.4
170	23.0	19.8	29.8





#48

Acenaphthylene

Concen: 3.06 ng

RT: 9.32 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

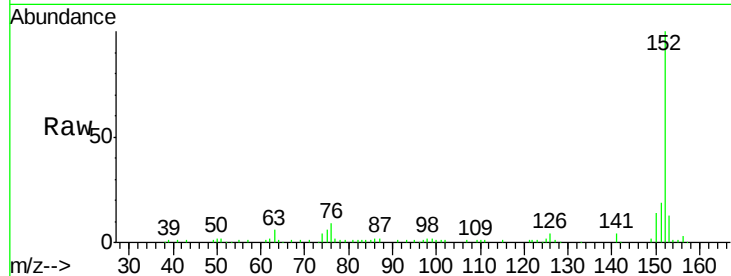
ClientSampleId :

E2-AA10-NSWDL

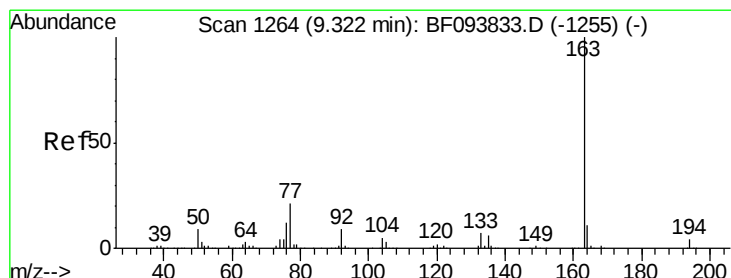
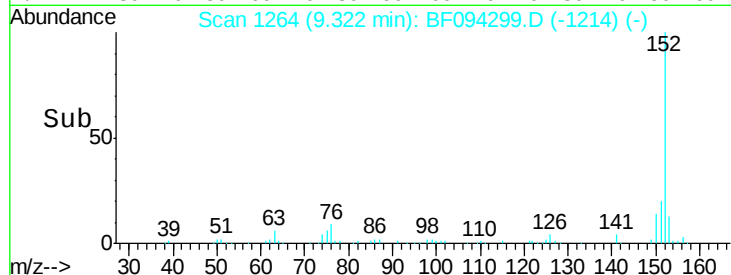
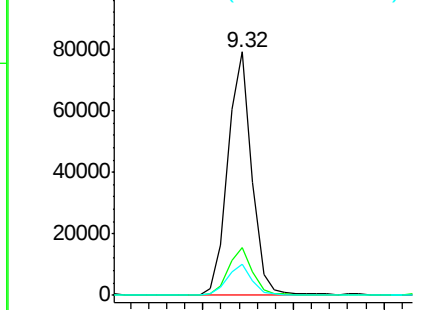
Tot Ion:	152	Resp:	72880
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.8	25.2
153	12.6	10.8	16.2

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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: 5.39 ng

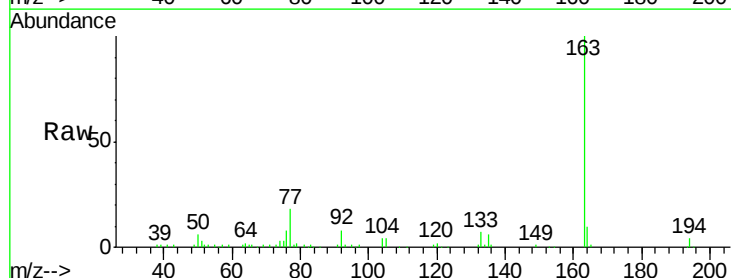
RT: 9.17 min Scan# 1239

Delta R.T. -0.02 min

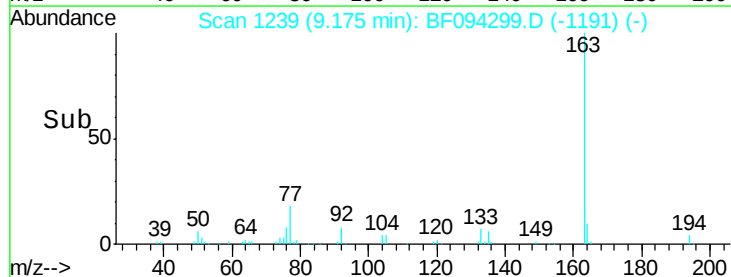
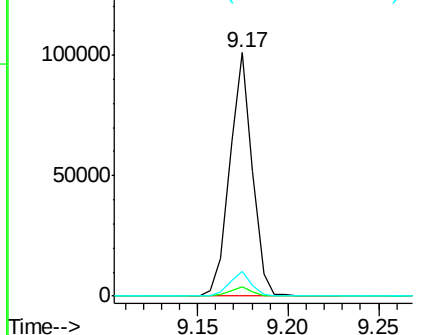
Lab File: BF094299.D

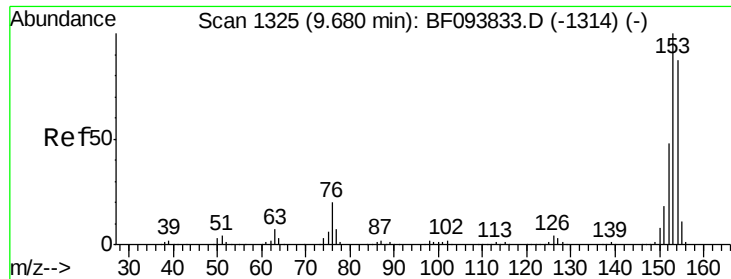
Acq: 8 Apr 2017 4:50

Tgt Ion:	163	Resp:	86941
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.6	4.0
164	10.3	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





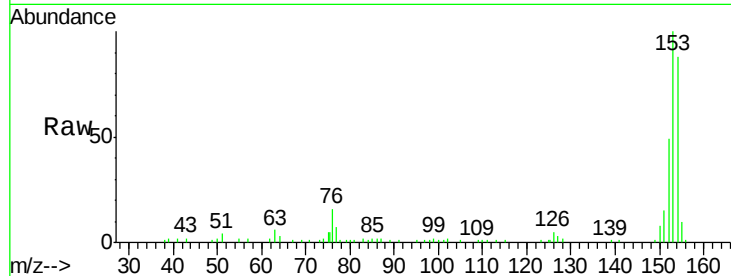
#51
Acenaphthene
Concen: 2.51 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampleId :
E2-AA10-NSWDL

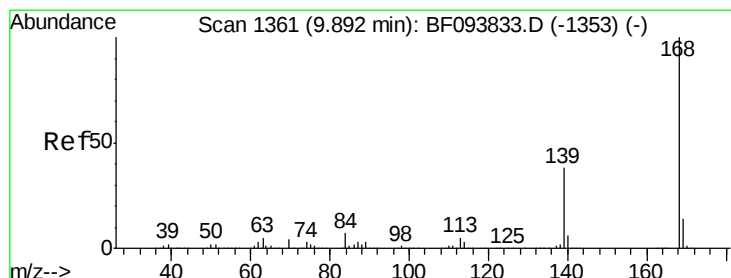
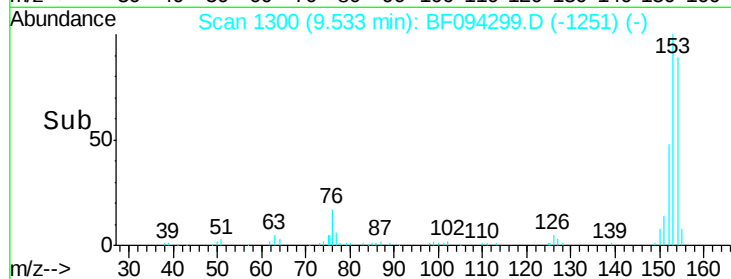
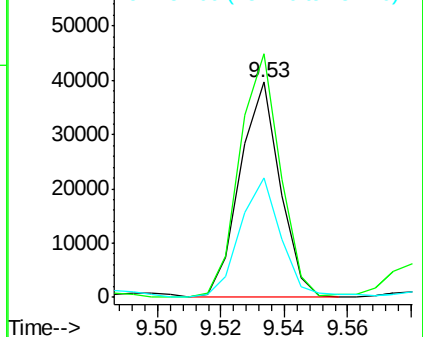
Tot Ion	Ratio	Lower	Upper
154	100		
153	113.3	90.5	135.7
152	55.5	43.6	65.4

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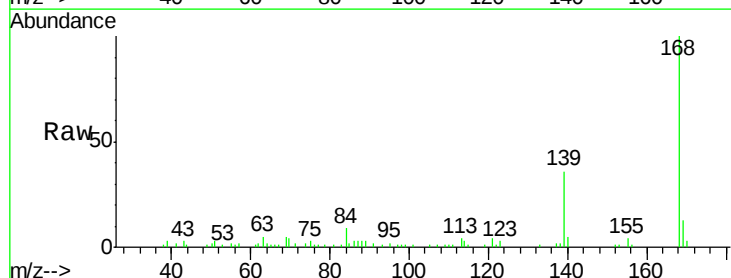


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

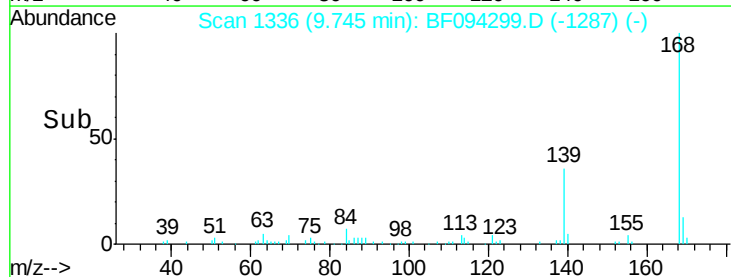
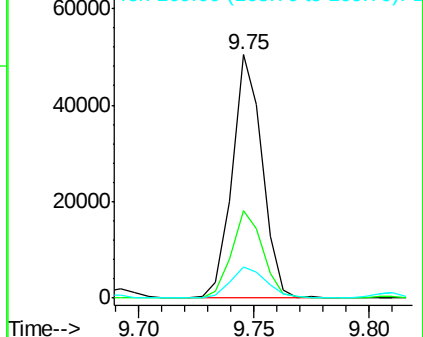


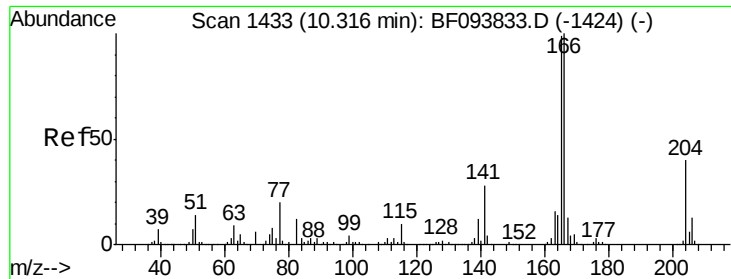
#54
Dibenzofuran
Concen: 2.41 ng
RT: 9.75 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.8	30.6	45.8
169	12.6	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





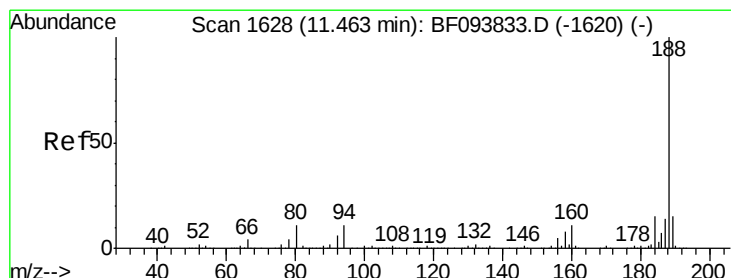
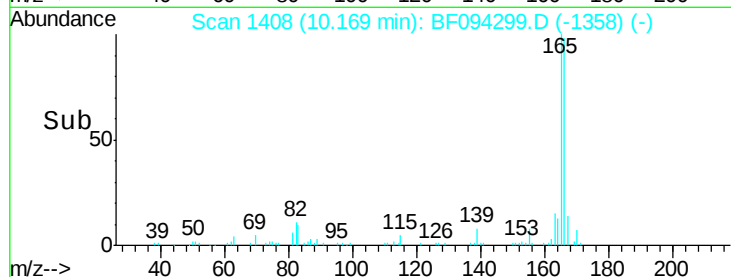
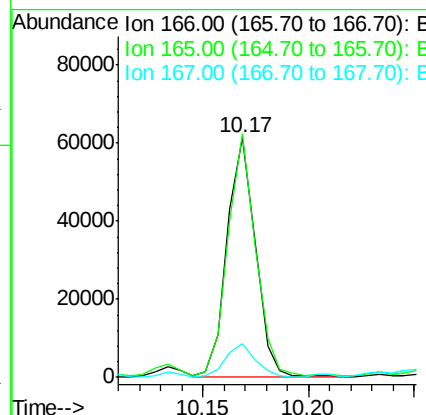
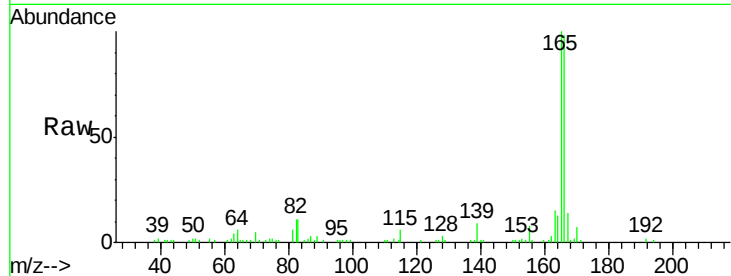
#57
Fluorene
 Concen: 3.67 ng
 RT: 10.17 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA10-NSWDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	101.8	78.8	118.2		
167	13.9	10.6	16.0		

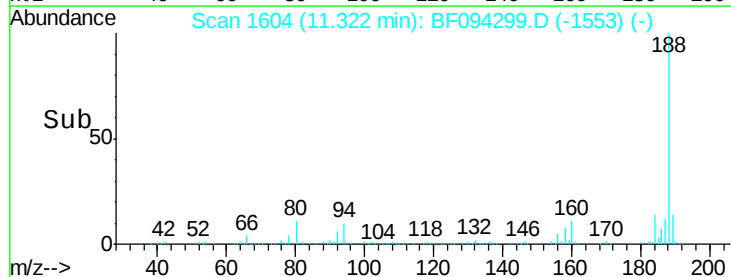
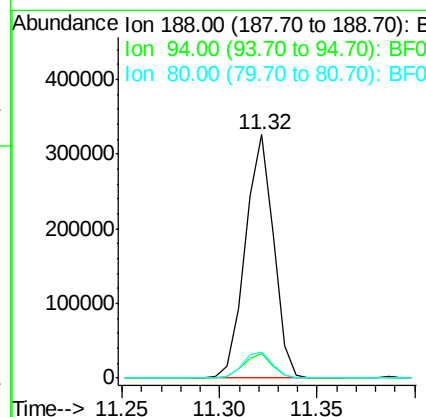
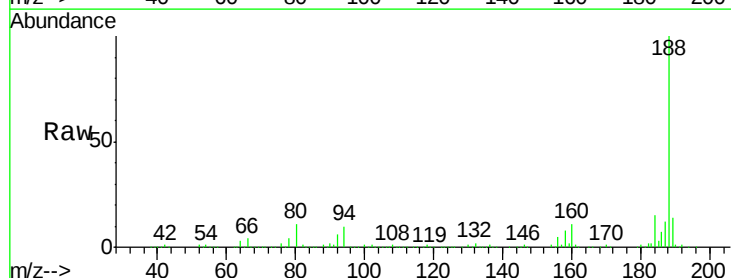
Manual Integrations
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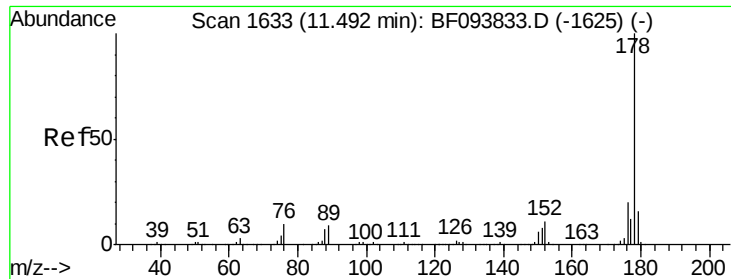
mohammad
 4/10/2017 2:07:50 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.32 min Scan# 1604
 Delta R.T. -0.00 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	10.3	9.4	14.2		
80	10.8	10.2	15.2		





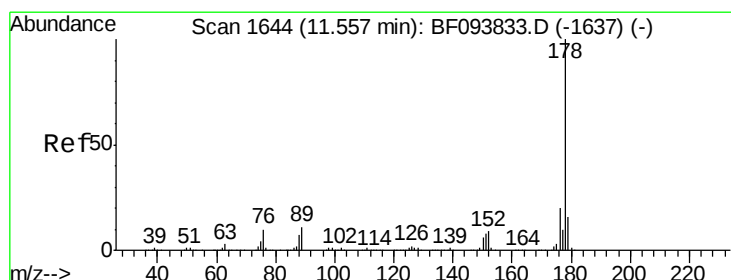
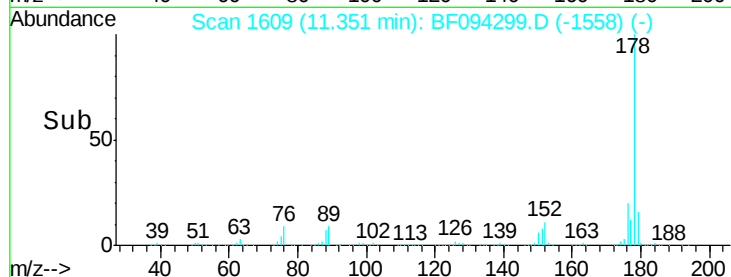
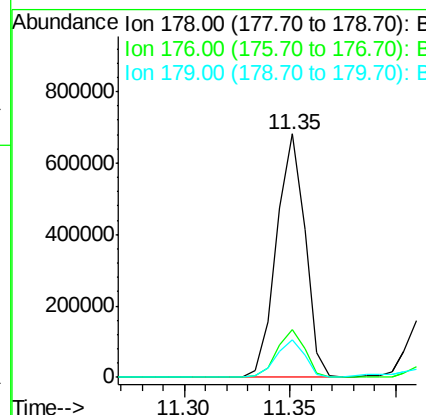
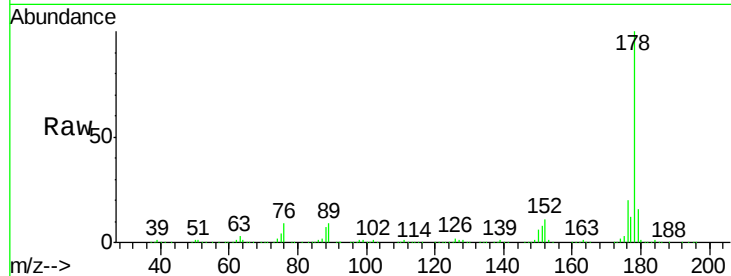
#70
Phenanthrene
Concen: 35.41 ng
RT: 11.35 min Scan# 1609
Delta R.T. -0.00 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampleId :
E2-AA10-NSWDL

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

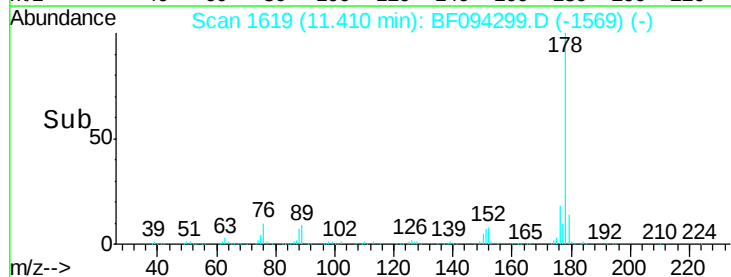
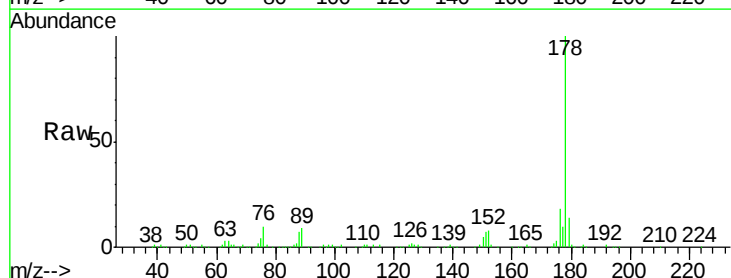
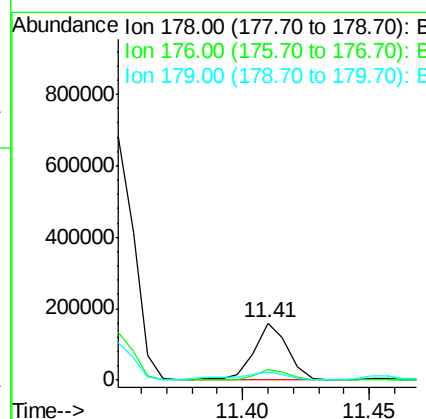
Manual Integrations
APPROVED

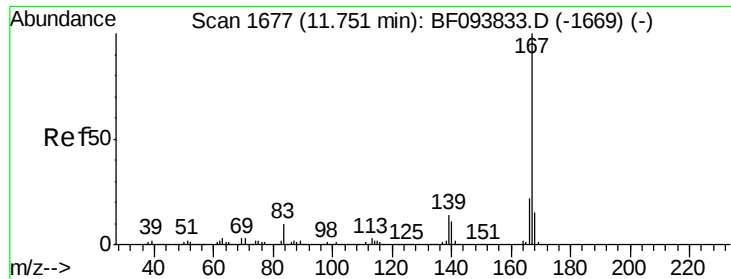
mohammad
4/10/2017 2:07:50 PM



#71
Anthracene
Concen: 7.71 ng
RT: 11.41 min Scan# 1619
Delta R.T. -0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	14.5	12.7	19.1





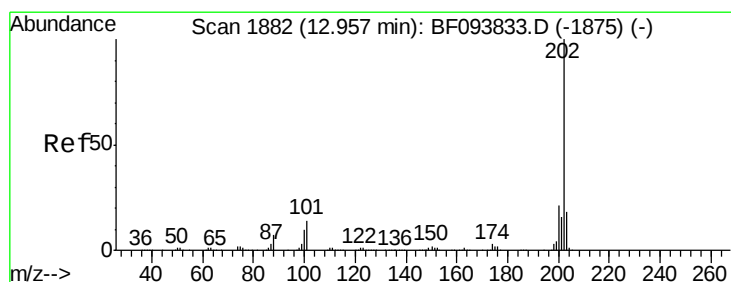
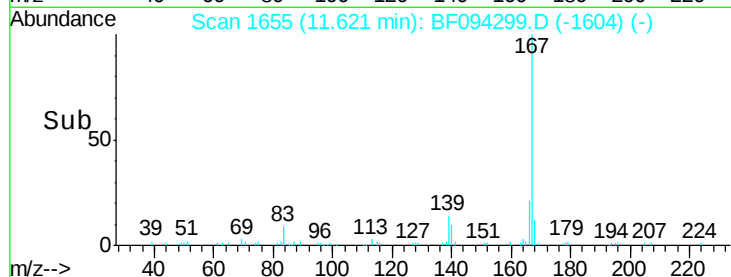
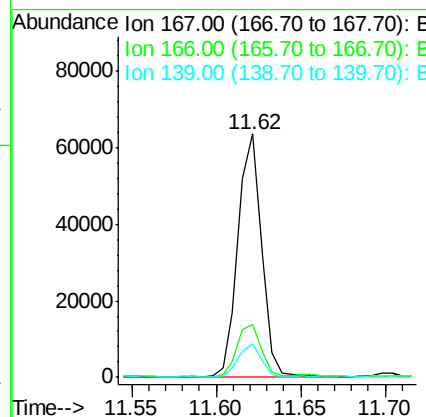
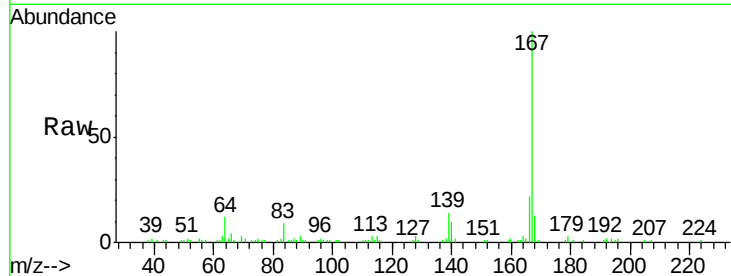
#72
 Carbazole
 Concen: 3.23 ng
 RT: 11.62 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	18.1	27.1
139	14.0	11.7	17.5

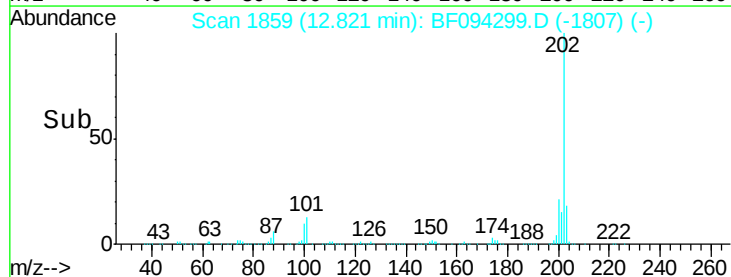
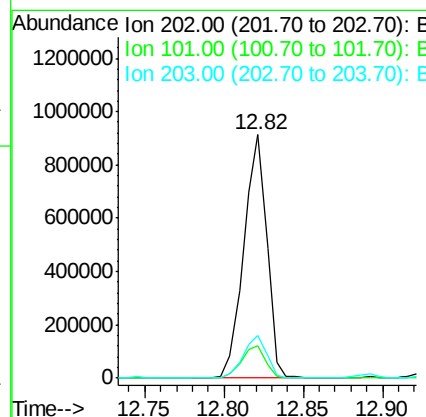
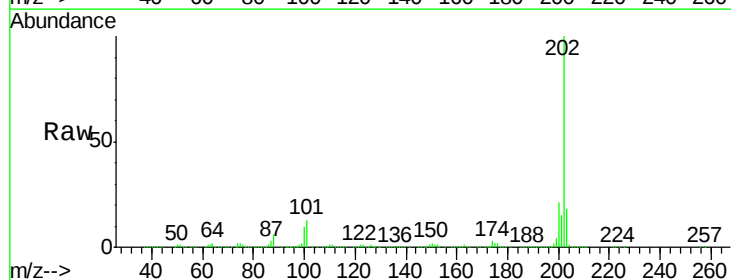
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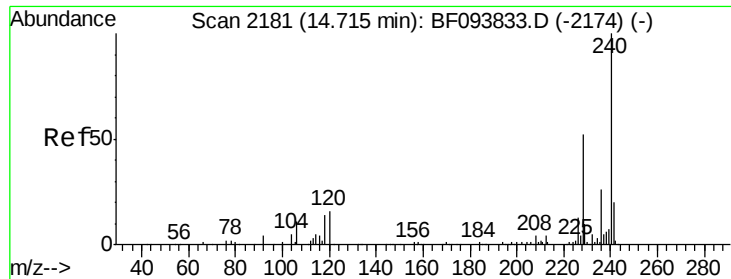
mohammad
 4/10/2017 2:07:50 PM



#74
 Fluoranthene
 Concen: 49.06 ng
 RT: 12.82 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	33.2
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.57 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

ClientSampleId :

E2-AA10-NSWDL

Tot Ion:240 Resp: 277402

Ion Ratio Lower Upper

240 100

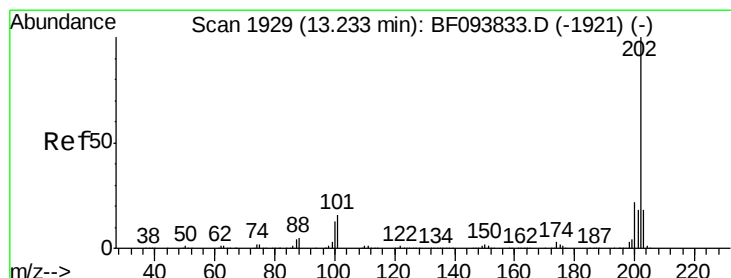
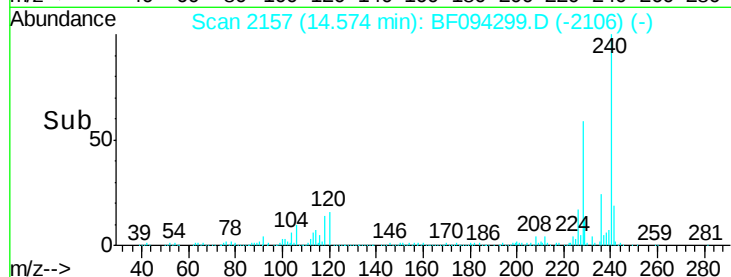
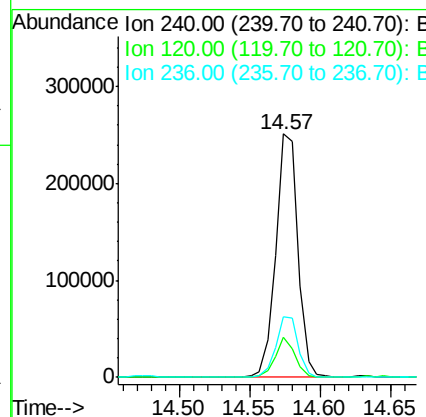
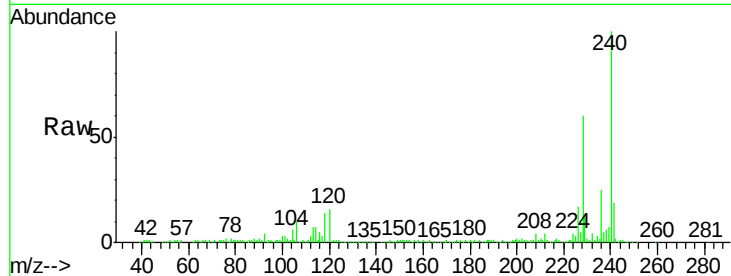
120 16.3 5.8 8.8#

236 24.7 20.5 30.7

Manual Integrations
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#77

Pyrene

Concen: 42.53 ng

RT: 13.09 min Scan# 1905

Delta R.T. -0.00 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

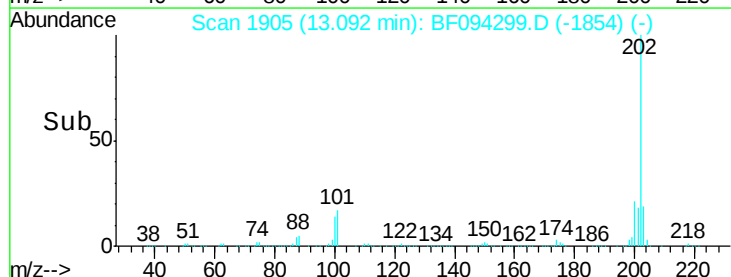
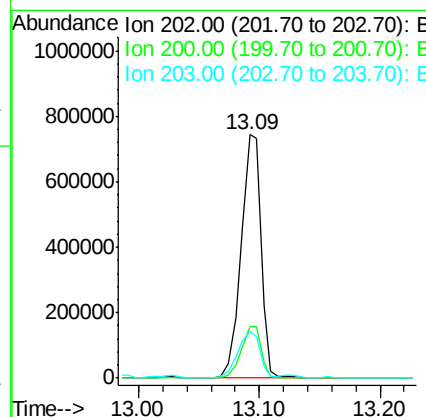
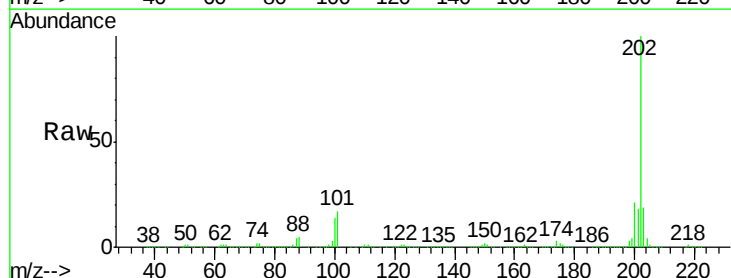
Tgt Ion:202 Resp: 856201

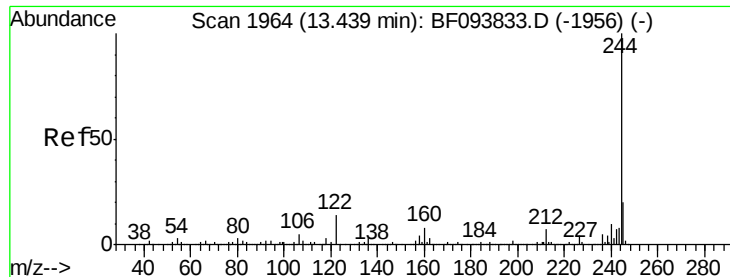
Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

203 19.0 14.4 21.6





#78

Terphenyl-d14

Concen: 22.84 ng

RT: 13.30 min Scan# 1940

Delta R.T. -0.00 min

Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Instrument :

BNA_F

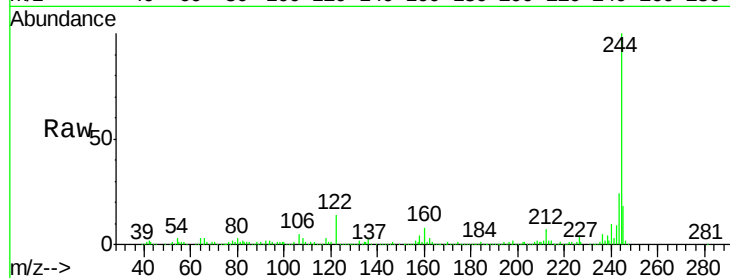
ClientSampleId :

E2-AA10-NSWDL

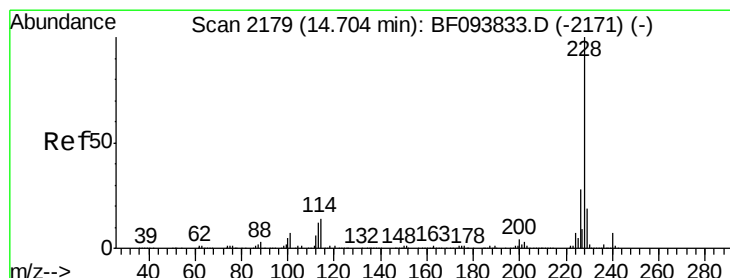
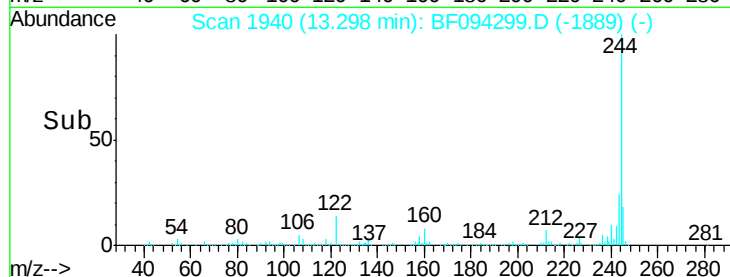
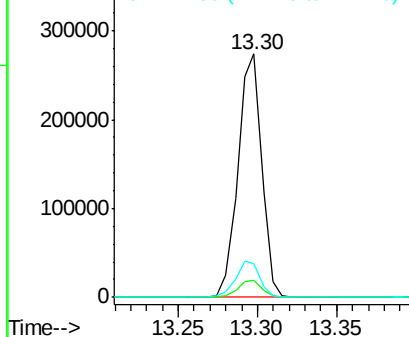
Tot Ion:	244	Resp:	282706
Ion Ratio		Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.9	10.3	15.5

Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 24.45 ng

RT: 14.56 min Scan# 2155

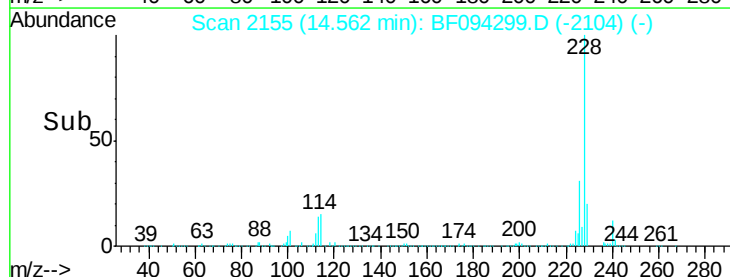
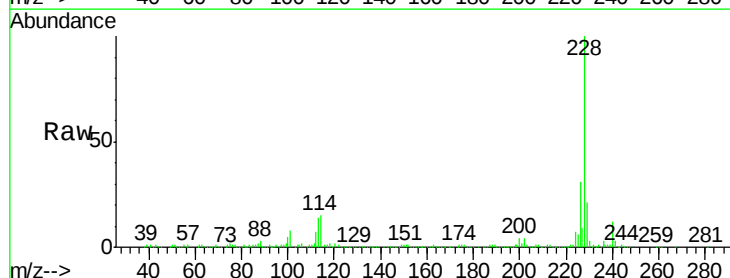
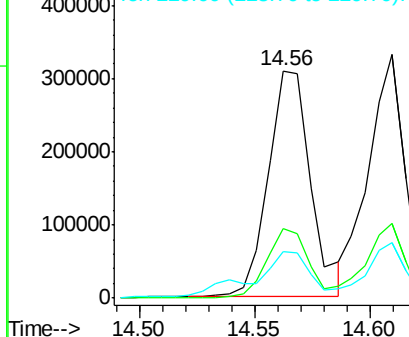
Delta R.T. -0.00 min

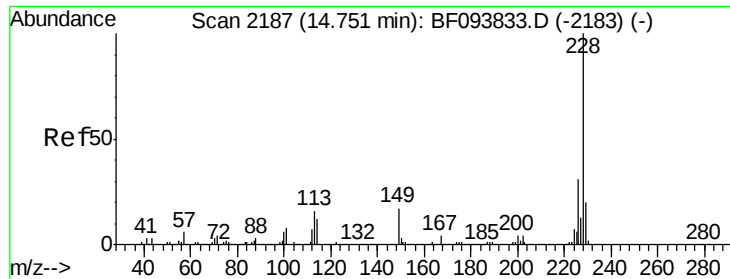
Lab File: BF094299.D

Acq: 8 Apr 2017 4:50

Tgt Ion:	228	Resp:	395433
Ion Ratio		Lower	Upper
228	100		
226	30.9	22.6	33.8
229	20.6	16.3	24.5

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





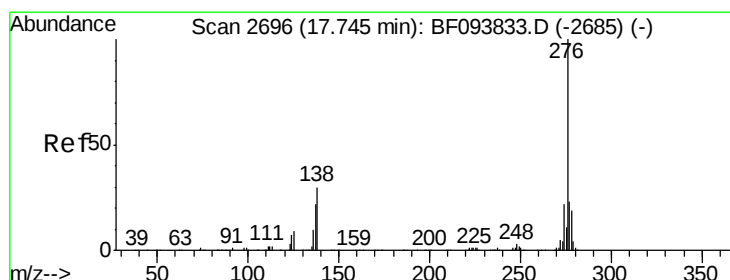
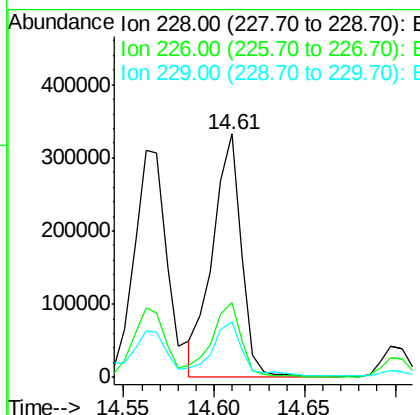
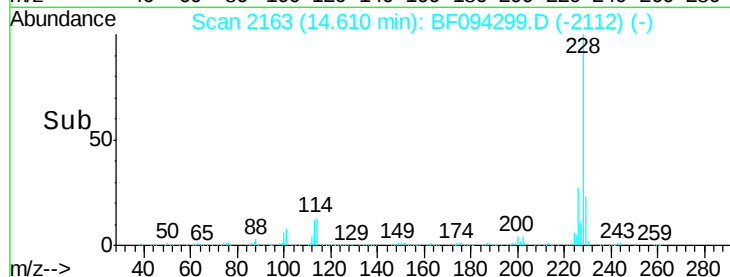
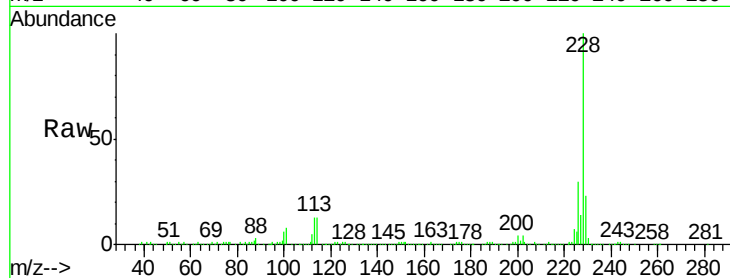
#82
Chrysene
Concen: 24.17 ng
RT: 14.61 min Scan# 2163
Delta R.T. -0.00 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampleId :
E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	23.0	15.8	23.6

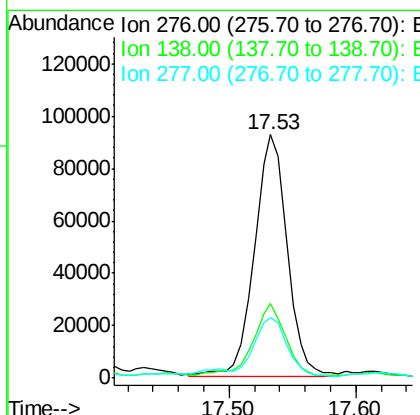
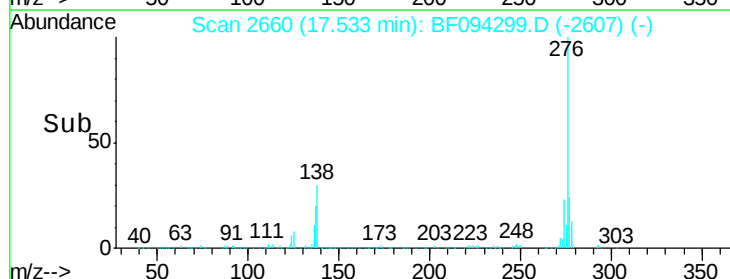
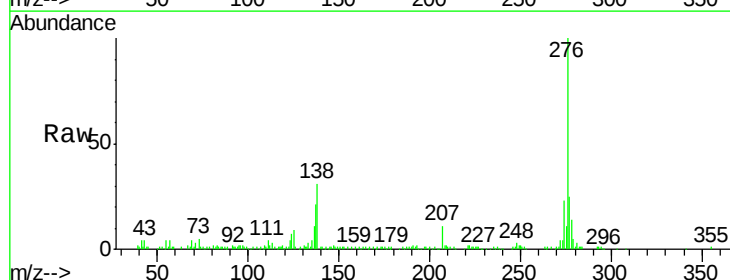
Manual Integrations
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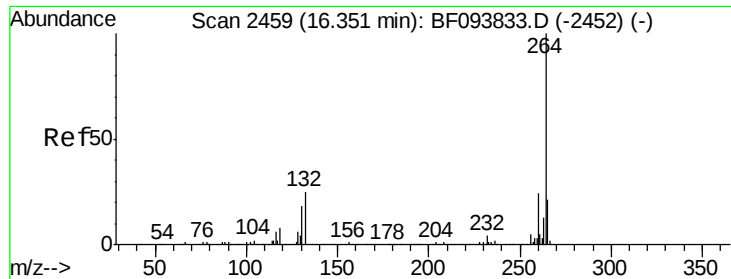
mohammad
4/10/2017 2:07:50 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 12.83 ng
RT: 17.53 min Scan# 2660
Delta R.T. 0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.6	27.8	41.6
277	23.7	20.2	30.4





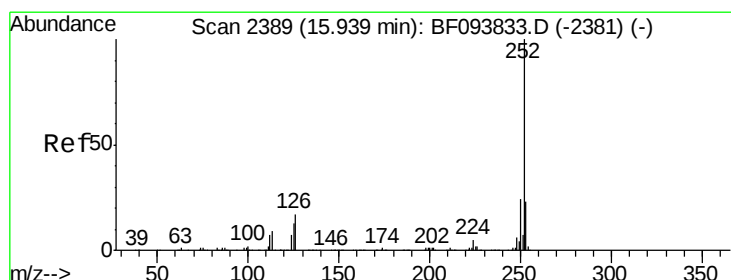
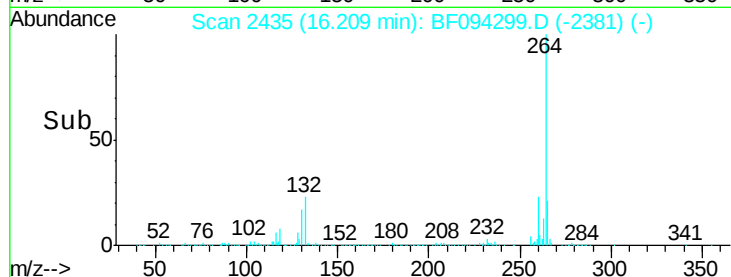
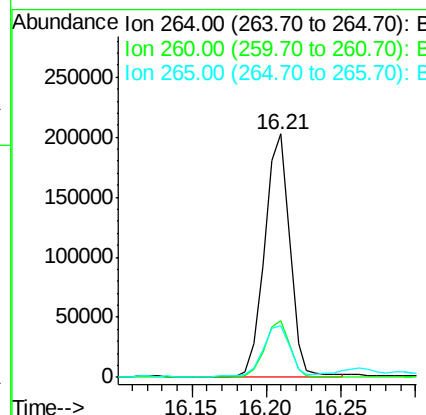
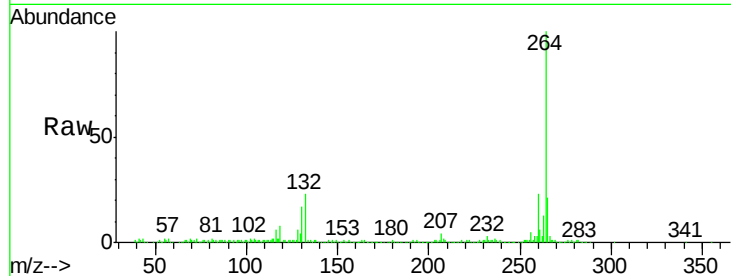
#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 16.21 min Scan# 2435
 Delta R.T. 0.02 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Instrument :
 BNA_F
 ClientSampleID :
 E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.5	29.3
265	21.1	17.2	25.8

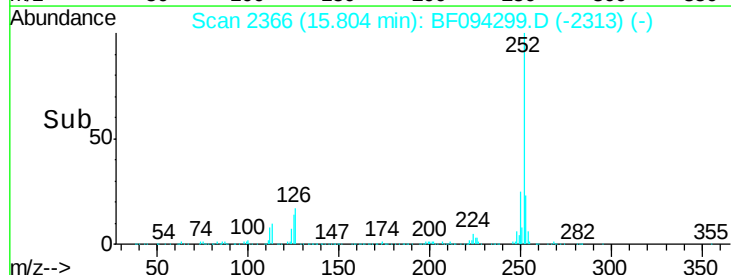
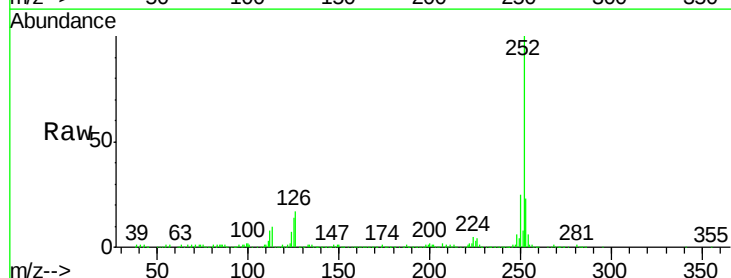
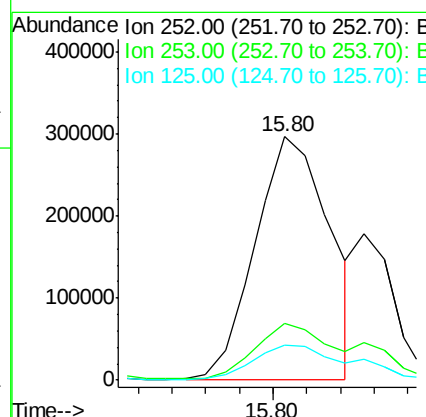
Manual Integrations
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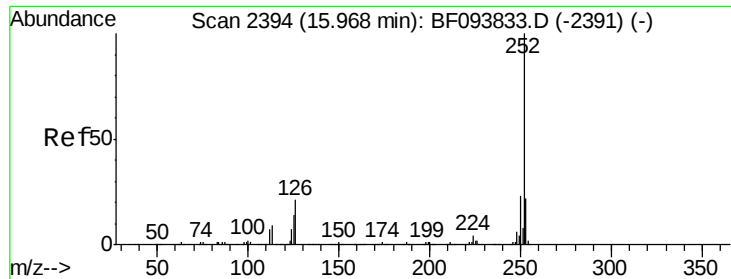
mohammad
 4/10/2017 2:07:50 PM



#87
 Benzo(b)fluoranthene
 Concen: 31.56 ng m
 RT: 15.80 min Scan# 2366
 Delta R.T. 0.01 min
 Lab File: BF094299.D
 Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	14.4	9.8	14.8





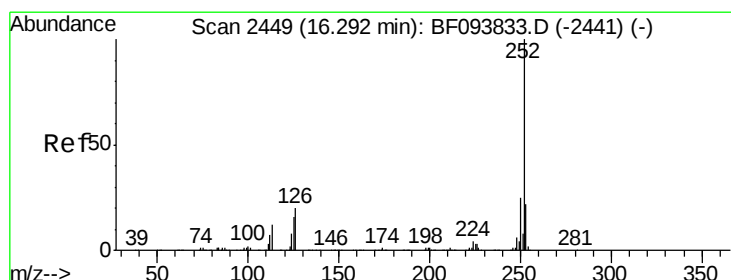
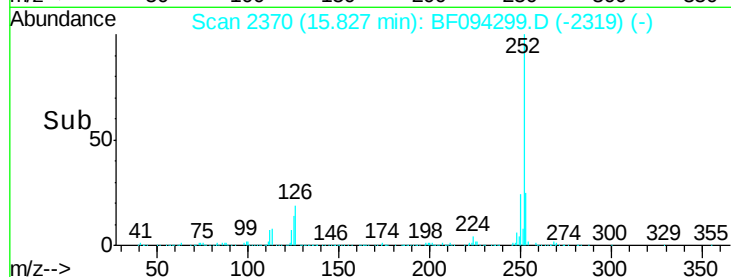
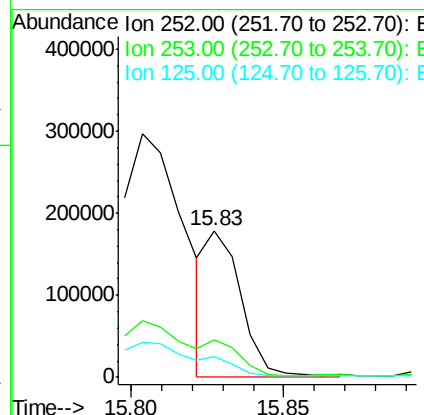
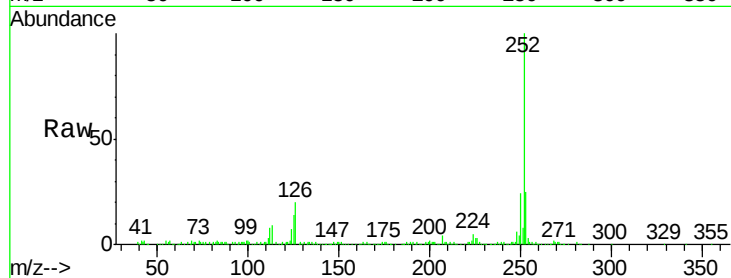
#88
Benzo(k)fluoranthene
Concen: 10.01 ng m
RT: 15.83 min Scan# 2370
Delta R.T. -0.00 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampleId :
E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.4	27.6
125	14.2	13.1	19.7

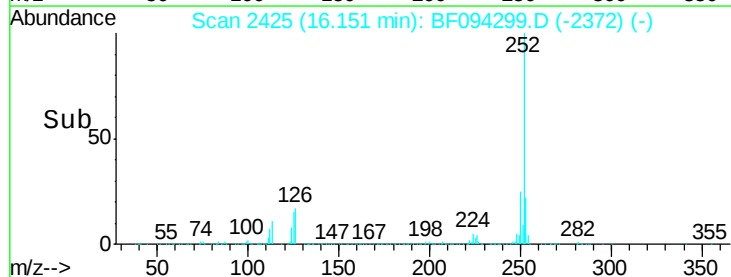
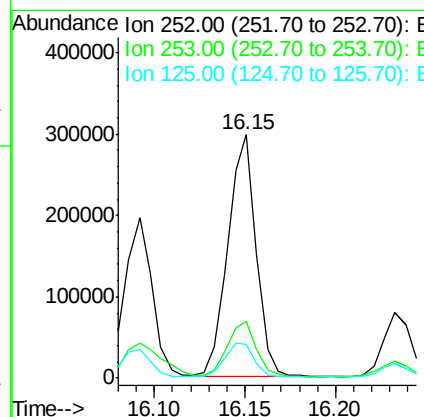
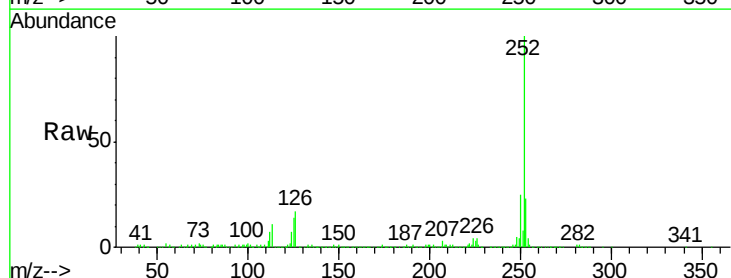
Manual Integrations
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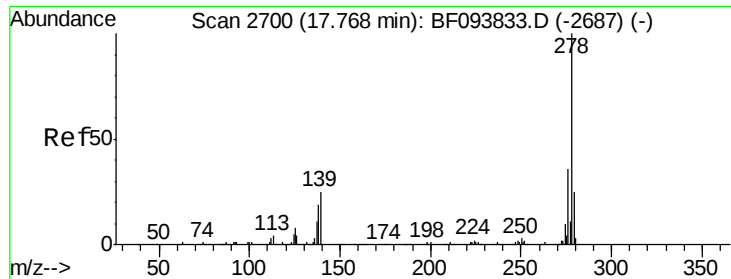
mohammad
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#89
Benzo(a)pyrene
Concen: 24.05 ng
RT: 16.15 min Scan# 2425
Delta R.T. 0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	14.0	11.0	16.4





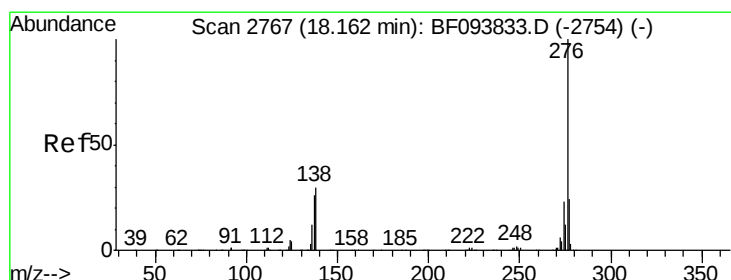
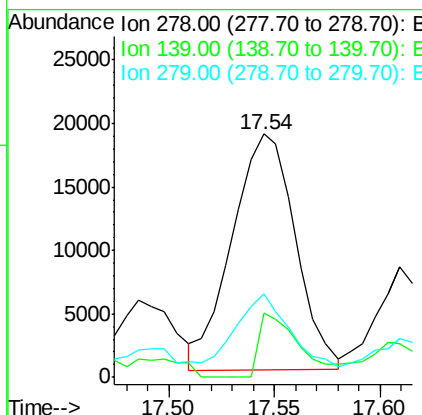
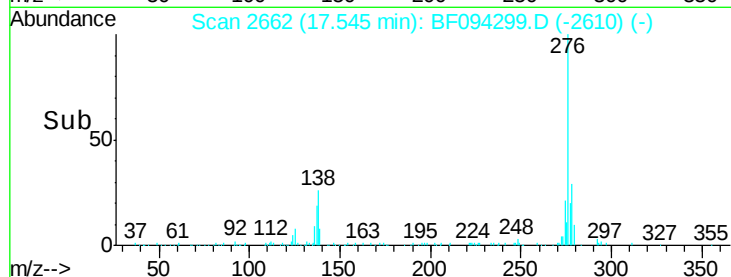
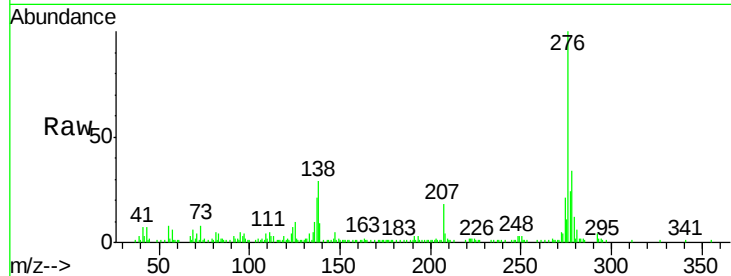
#90
Dibenzo(a,h)anthracene
Concen: 3.42 ng
RT: 17.54 min Scan# 2662
Delta R.T. 0.01 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Instrument :
BNA_F
ClientSampled :
E2-AA10-NSWDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.5	16.6	24.8#
279	34.6	19.3	28.9#

Manual Integrations
APPROVED

mohammad
4/10/2017 2:07:50 PM



#91
Benzo(g,h,i)perylene
Concen: 13.08 ng
RT: 17.93 min Scan# 2727
Delta R.T. 0.02 min
Lab File: BF094299.D
Acq: 8 Apr 2017 4:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	28.1	25.4	38.0

