

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094148.D
 Acq On : 4 Apr 2017 5:13
 Operator : SJ/MA
 Sample : I2510-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:34:55 PM

Quant Time: Apr 04 07:11:08 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	166518	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	638162	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	249343	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	364082	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	311875	20.00	ng	-0.01
86) Perylene-d12	16.25	264	231614	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	869446	88.19	ng	-0.01
7) Phenol-d6	5.50	99	1082680	88.77	ng	-0.01
23) Nitrobenzene-d5	6.53	82	608301	54.40	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	151023	76.65	ng	-0.02
44) 2-Fluorobiphenyl	8.72	172	1176215	71.95	ng	-0.02
78) Terphenyl-d14	13.34	244	746192	53.63	ng	-0.01
Target Compounds						Qvalue
11) bis(2-Chloroethyl)ether	5.59	93	36536	3.37	ng	95
14) 1,2-Dichlorobenzene	6.08	146	30673	2.71	ng	96
31) Naphthalene	7.42	128	152068	4.96	ng	98
37) 2-Methylnaphthalene	8.26	142	62565	3.06	ng	98
48) Acenaphthylene	9.36	152	175669	6.71	ng	97
49) Dimethylphthalate	9.21	163	115251	6.50	ng	99
70) Phenanthrene	11.39	178	278824	13.77	ng	98
71) Anthracene	11.45	178	128532	6.16	ng	98
74) Fluoranthene	12.85	202	577753	27.86	ng	99
77) Pyrene	13.13	202	661982	29.25	ng	98
80) Benzo(a)anthracene	14.60	228	345119m	18.98	ng	
82) Chrysene	14.64	228	341531	20.24	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	191844	13.13	ng	94
87) Benzo(b)fluoranthene	15.84	252	459789m	32.39	ng	
88) Benzo(k)fluoranthene	15.87	252	159921m	11.51	ng	
89) Benzo(a)pyrene	16.19	252	294429	22.52	ng	95
90) Dibenzo(a,h)anthracene	17.60	278	38825	3.51	ng	# 87
91) Benzo(g,h,i)perylene	17.99	276	211058	18.91	ng	100

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

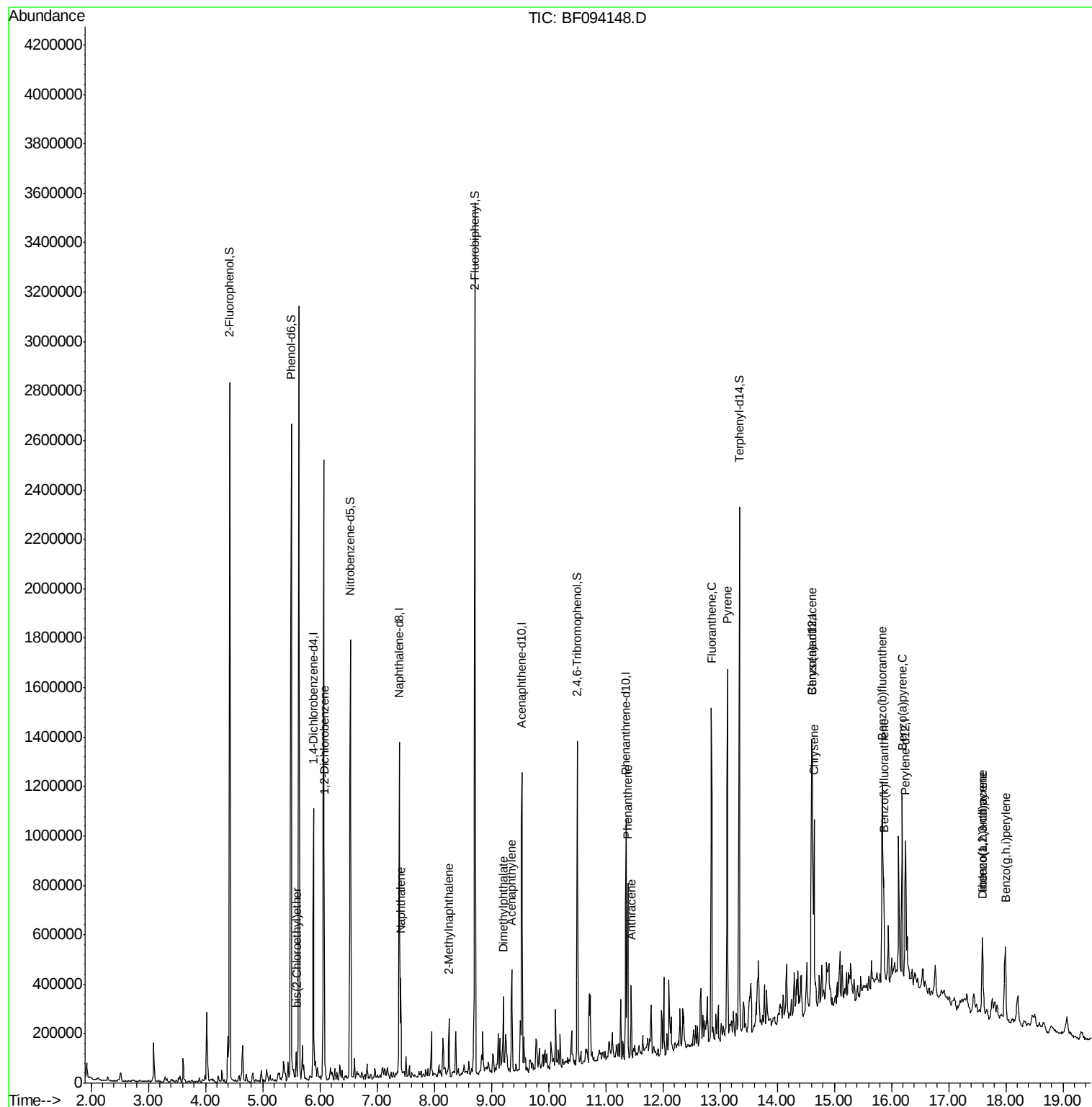
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
Data File : BF094148.D
Acq On : 4 Apr 2017 5:13
Operator : SJ/MA
Sample : I2510-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
E2-P11-BASE

Manual Integrations
APPROVED

mohammad
4/4/2017 5:34:55 PM

Quant Time: Apr 04 07:11:08 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: BF094148.D

Acq: 4 Apr 2017 5:13

Instrument :

BNA_F

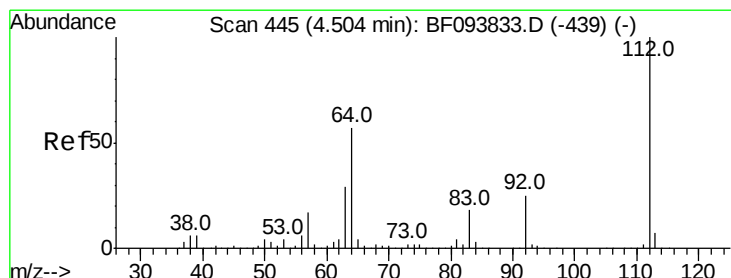
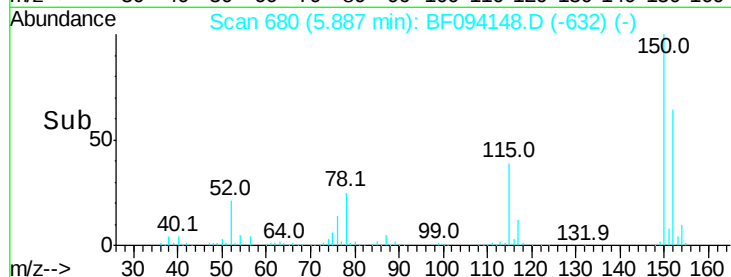
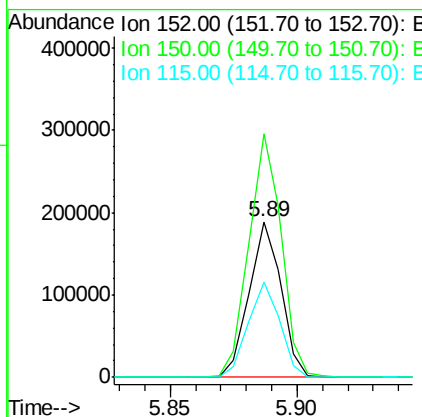
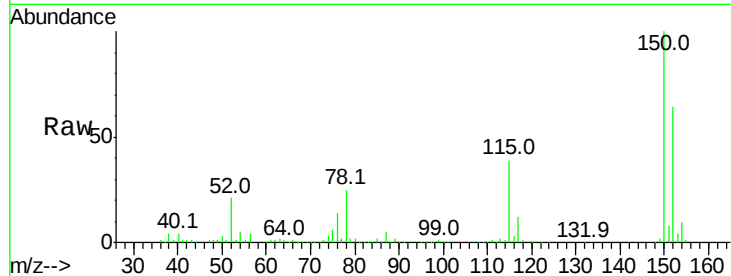
ClientSampleId :

E2-P11-BASE

Tot Ion:	152	Resp:	166518
Ion Ratio	Lower	Upper	
152	100		
150	156.2	126.2	189.2
115	61.3	52.2	78.2

Manual Integrations
APPROVED

mohammad
4/4/2017 5:34:55 PM



#5

2-Fluorophenol

Concen: 88.19 ng

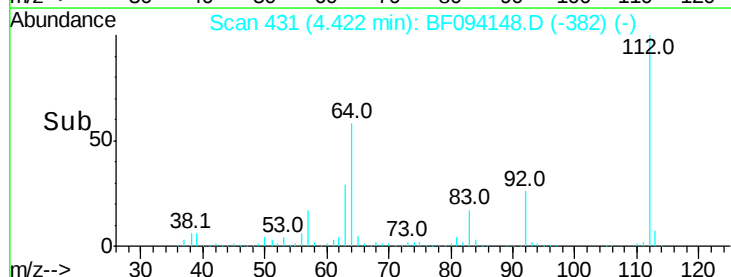
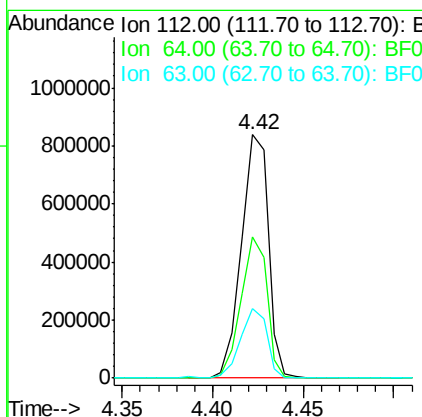
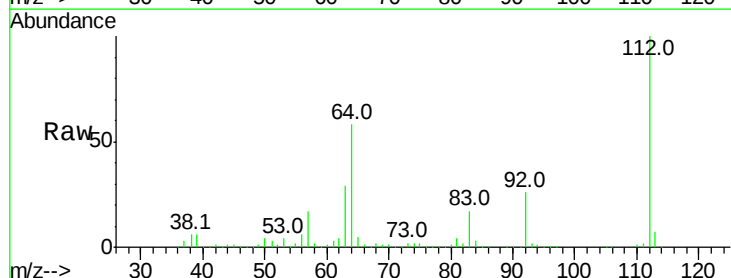
RT: 4.42 min Scan# 431

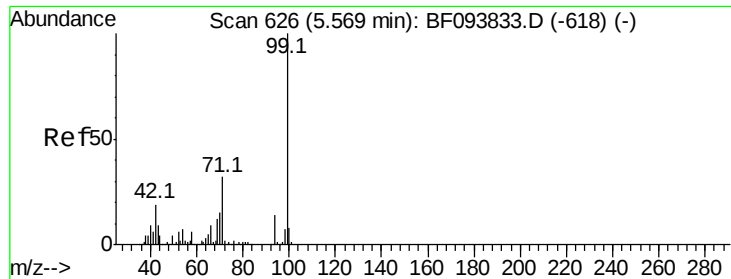
Delta R.T. -0.01 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

Tgt Ion:	112	Resp:	869446
Ion Ratio	Lower	Upper	
112	100		
64	58.2	46.0	69.0
63	28.7	23.4	35.0





#7

Phenol-d6

Concen: 88.77 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

Instrument :

BNA_F

ClientSampleId :

E2-P11-BASE

Tot Ion: 99 Resp: 1082680

Ion Ratio Lower Upper

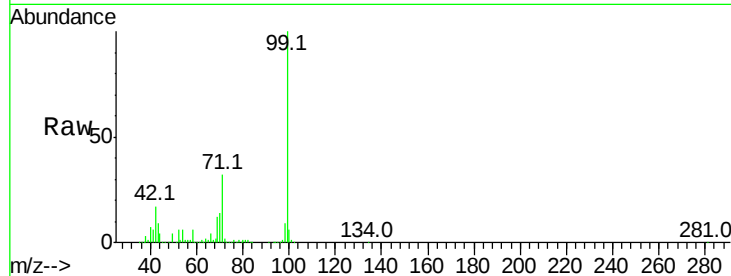
99 100

42 16.6 13.5 20.3

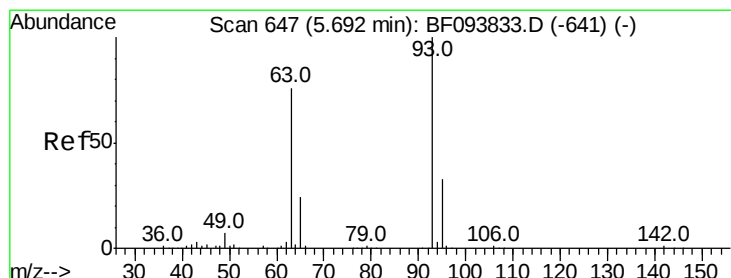
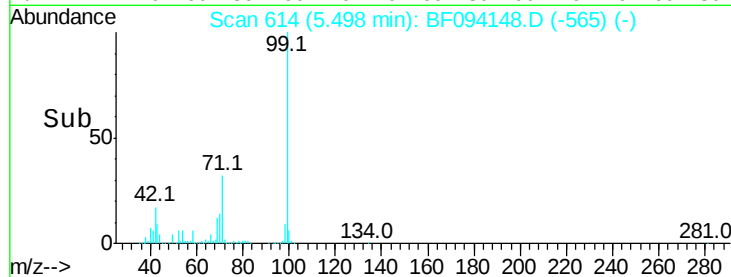
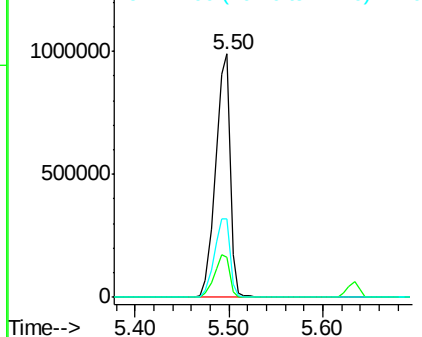
71 32.5 24.5 36.7

Manual Integrations
APPROVED

mohammad
4/4/2017 5:34:55 PM



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



#11

bis(2-Chloroethyl)ether

Concen: 3.37 ng

RT: 5.59 min Scan# 629

Delta R.T. -0.02 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

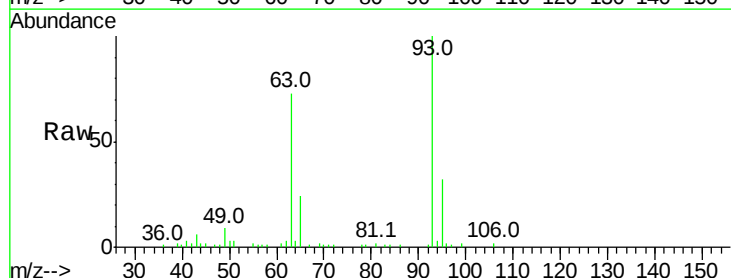
Tgt Ion: 93 Resp: 36536

Ion Ratio Lower Upper

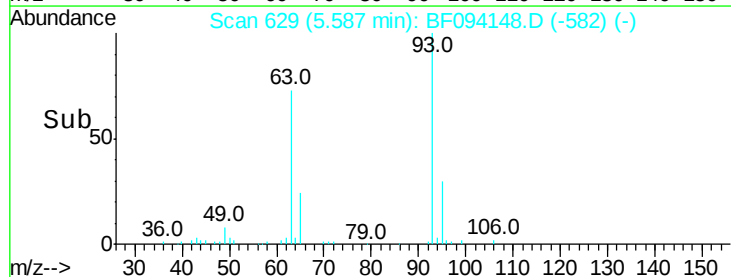
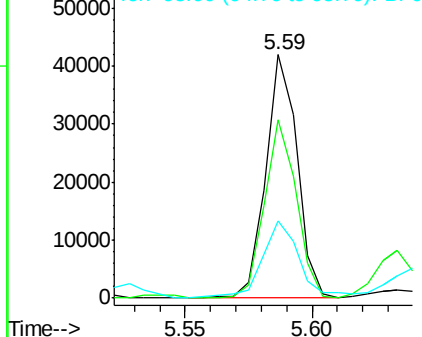
93 100

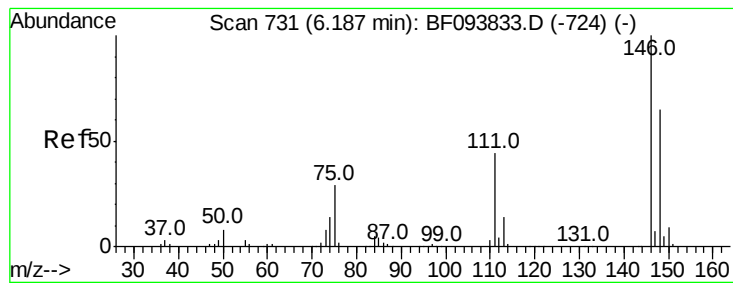
63 73.2 59.2 99.2

95 31.9 12.8 52.8



Abundance Ion 93.00 (92.70 to 93.70): BF0
Ion 63.00 (62.70 to 63.70): BF0
Ion 95.00 (94.70 to 95.70): BF0





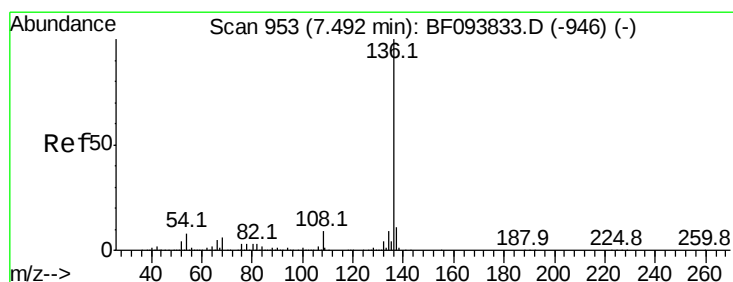
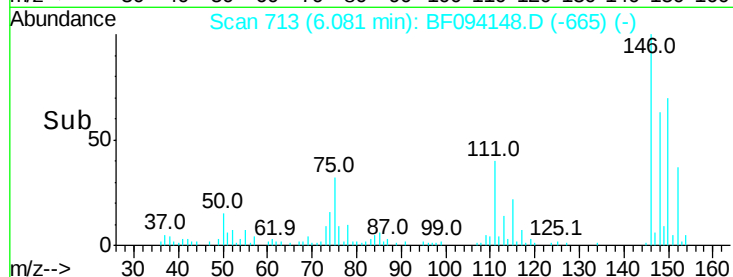
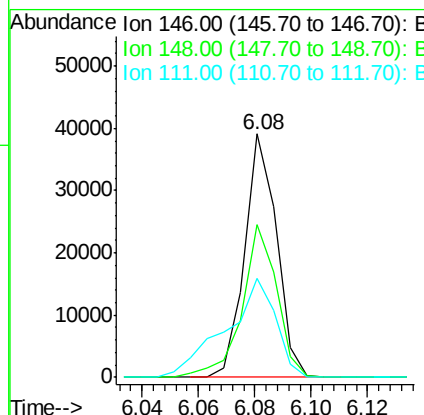
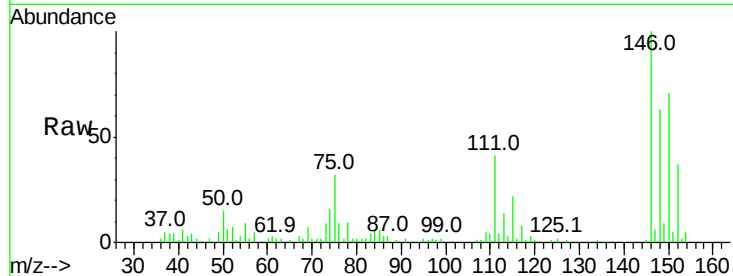
#14
 1,2-Dichlorobenzene
 Concen: 2.71 ng
 RT: 6.08 min Scan# 713
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampled :
 E2-P11-BASE

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	40.9	38.2	57.4

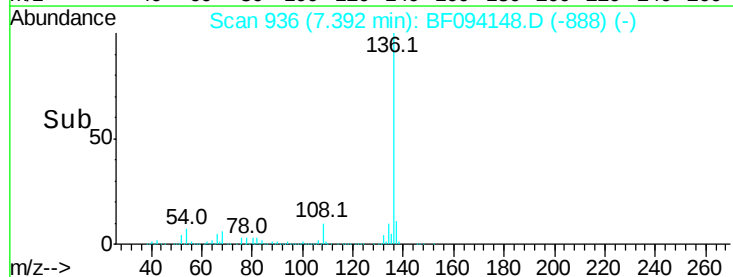
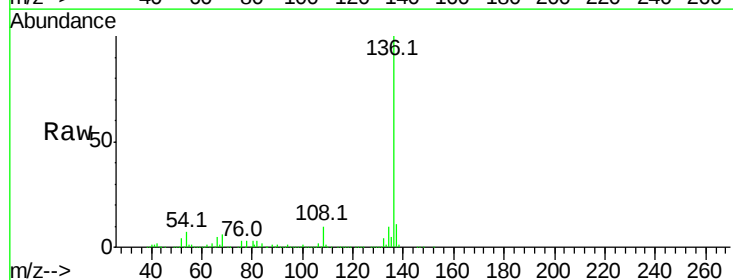
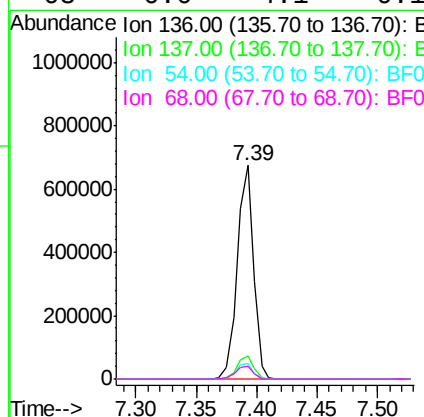
Manual Integrations
 APPROVED

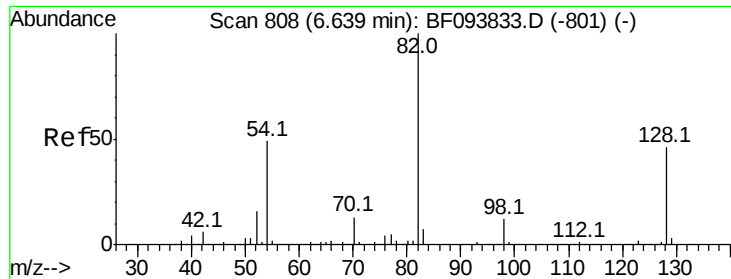
mohammad
 4/4/2017 5:34:55 PM



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 7.39 min Scan# 936
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	7.4	4.9	7.3#
68	6.0	4.1	6.1





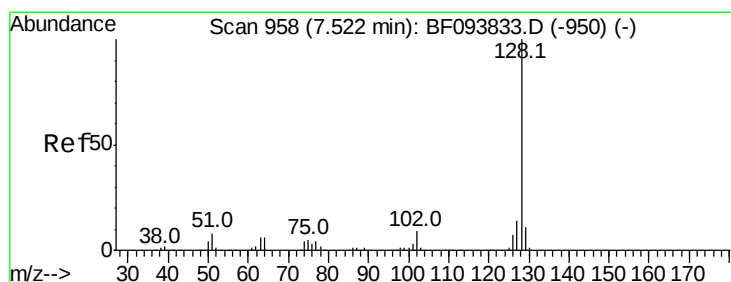
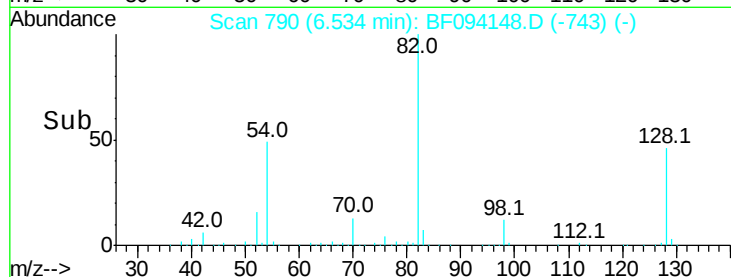
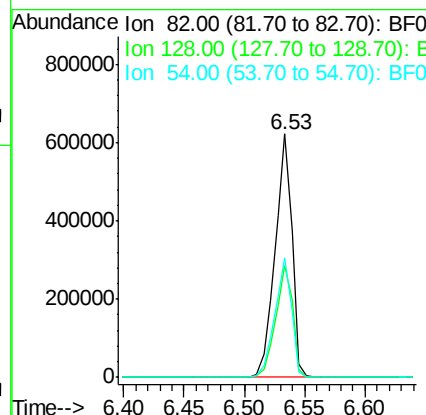
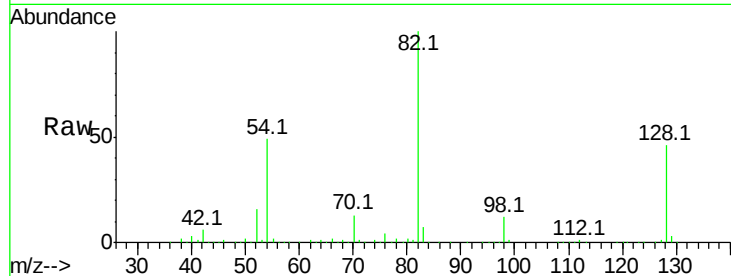
#23
 Nitrobenzene-d5
 Concen: 54.40 ng
 RT: 6.53 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.8	34.0	51.0	
54	49.0	42.2	63.2	

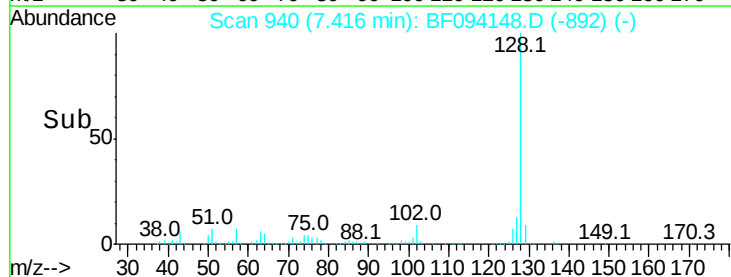
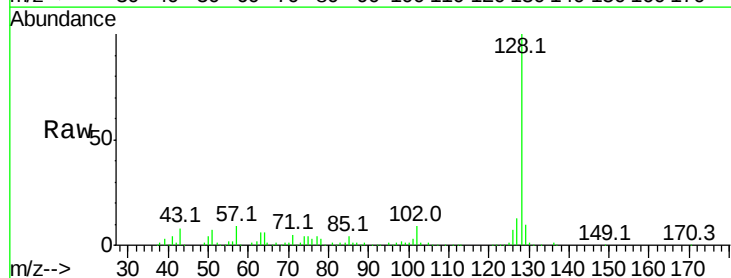
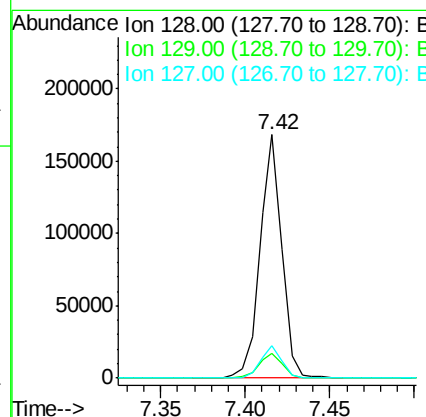
Manual Integrations
 APPROVED

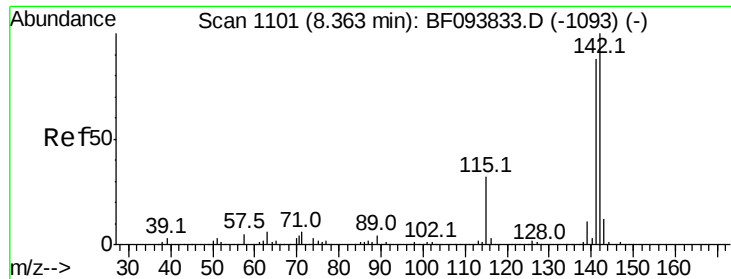
mohammad
 4/4/2017 5:34:55 PM



#31
 Naphthalene
 Concen: 4.96 ng
 RT: 7.42 min Scan# 940
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.1	9.0	13.6	
127	13.2	10.8	16.2	





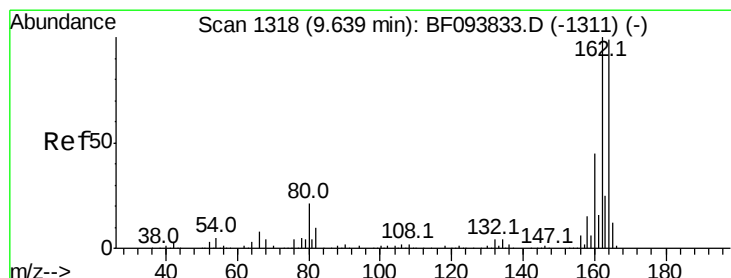
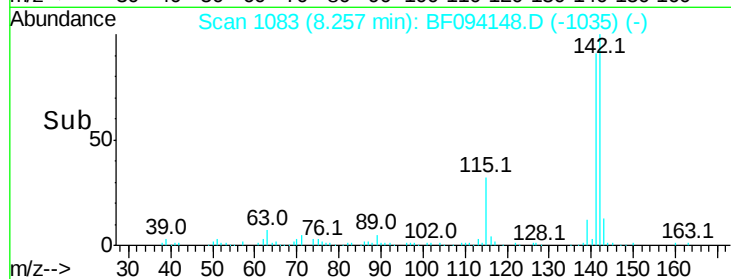
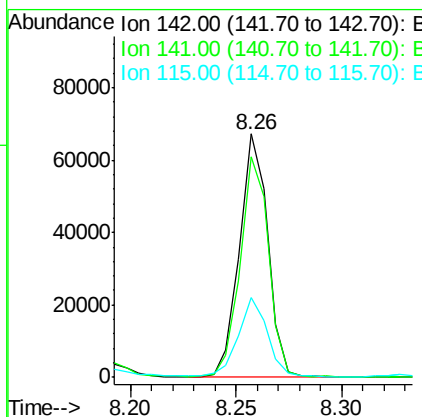
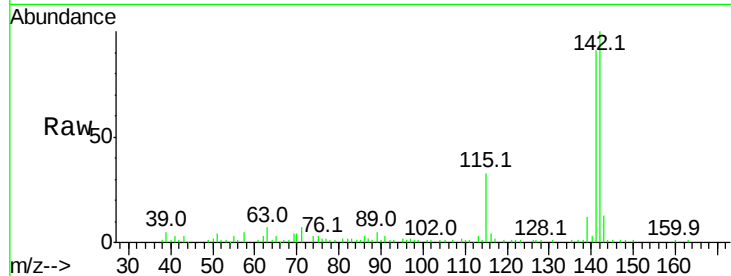
#37
 2-Methylnaphthalene
 Concen: 3.06 ng
 RT: 8.26 min Scan# 1083
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.3	106.9
115	32.9	27.1	40.7

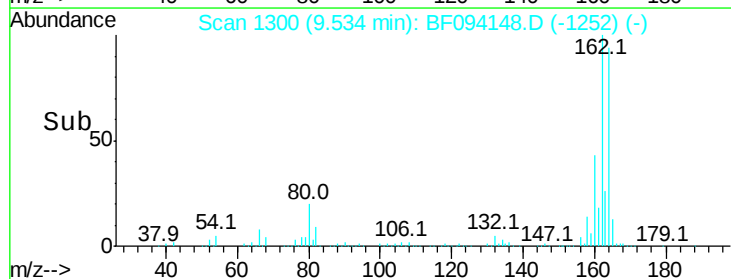
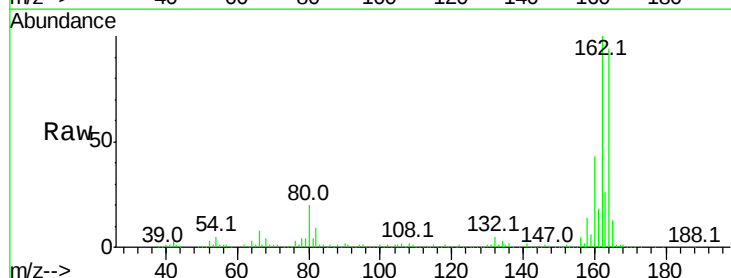
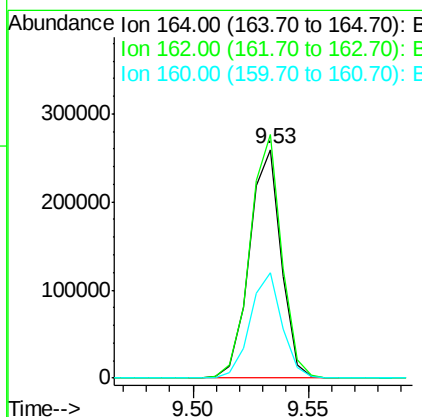
Manual Integrations
 APPROVED

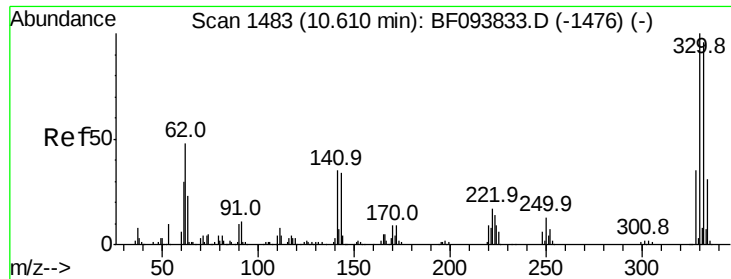
mohammad
 4/4/2017 5:34:55 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	82.6	123.8
160	46.2	36.2	54.2





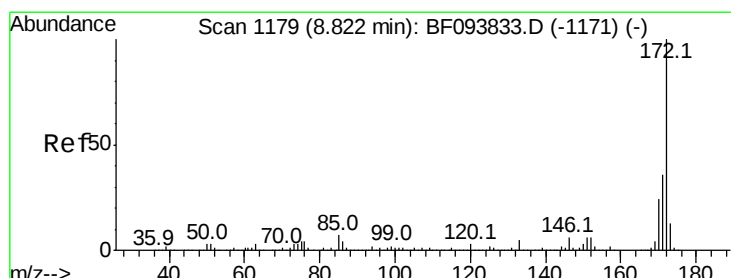
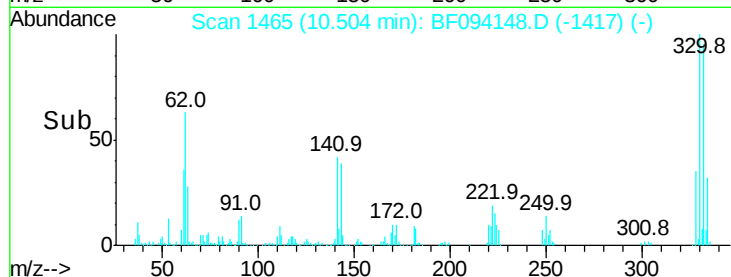
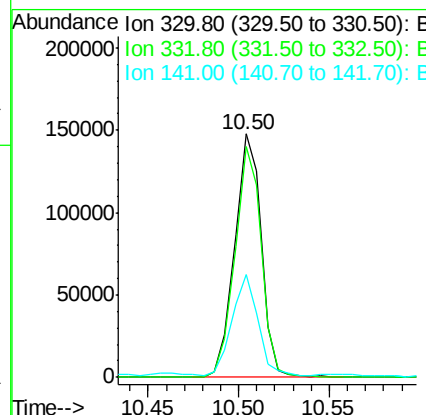
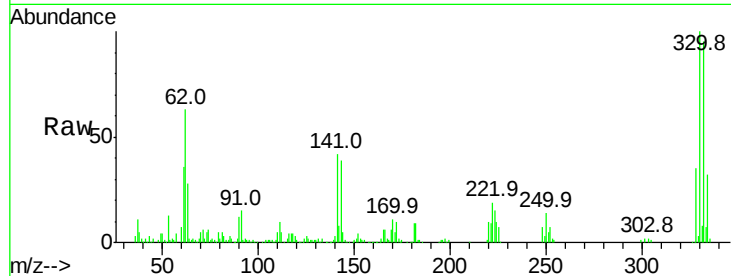
#41
 2,4,6-Tribromophenol
 Concen: 76.65 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	151023		
332	94.3	76.6	115.0	
141	40.5	31.4	47.2	

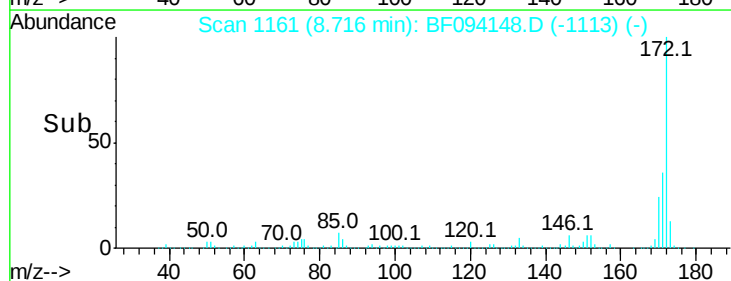
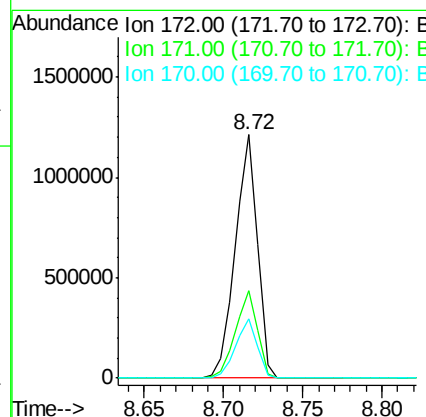
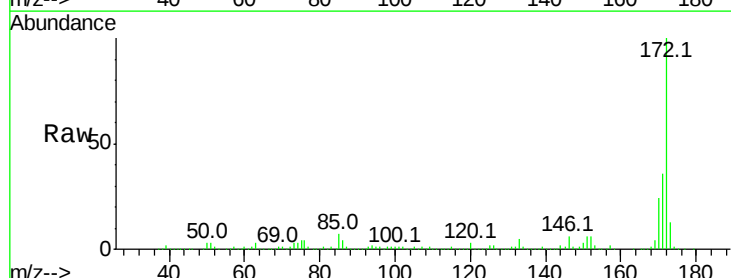
Manual Integrations
 APPROVED

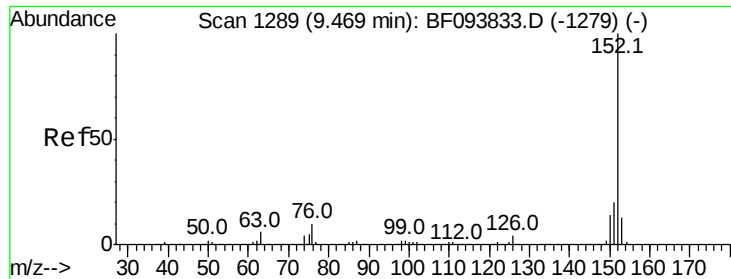
mohammad
 4/4/2017 5:34:55 PM



#44
 2-Fluorobiphenyl
 Concen: 71.95 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1176215		
171	36.0	29.6	44.4	
170	24.1	19.8	29.8	





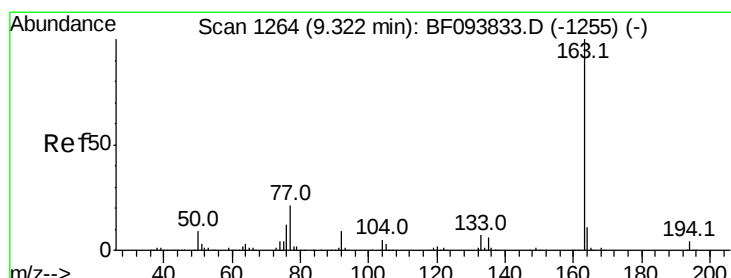
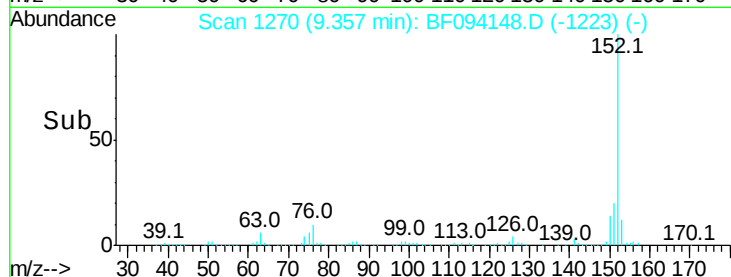
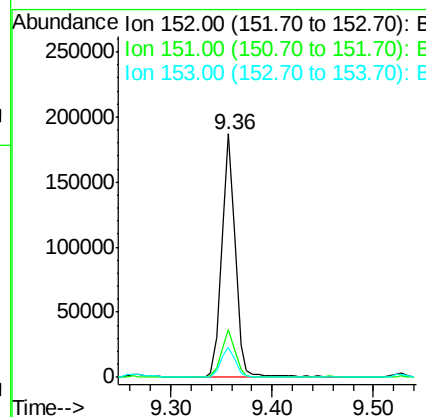
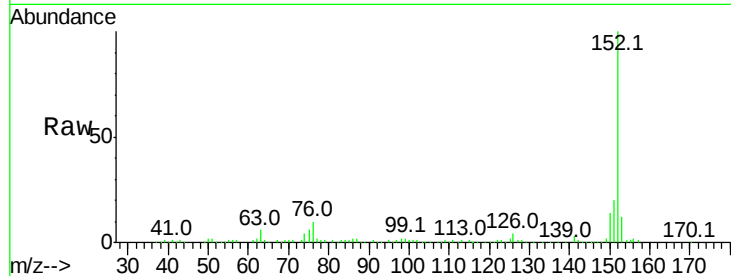
#48
Acenaphthylene
Concen: 6.71 ng
RT: 9.36 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Instrument :
BNA_F
ClientSampleId :
E2-P11-BASE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	175669		
151	19.8		16.8	25.2
153	12.4		10.8	16.2

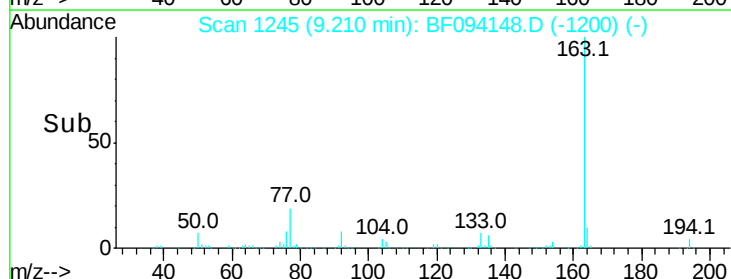
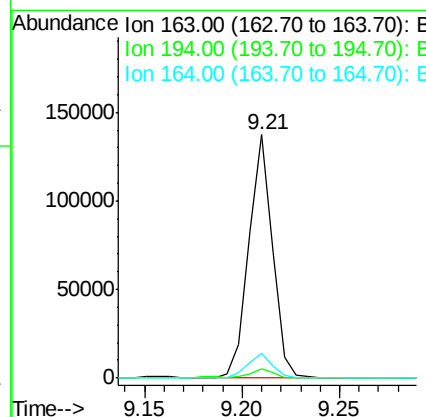
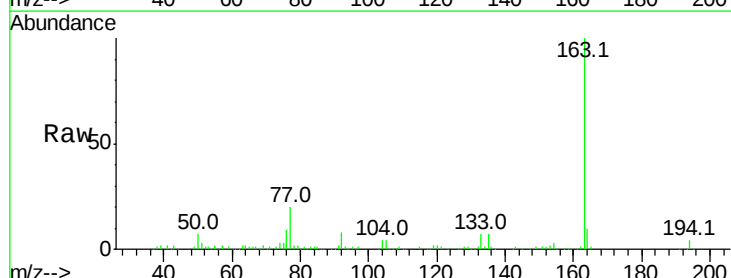
Manual Integrations
APPROVED

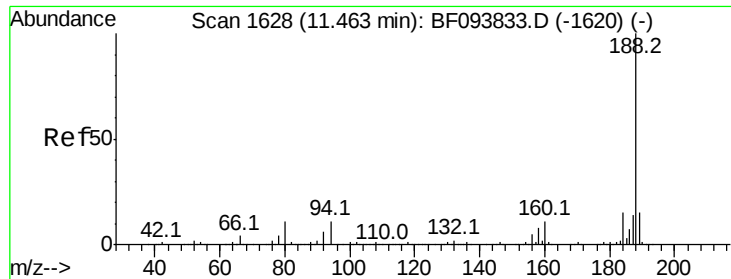
mohammad
4/4/2017 5:34:55 PM



#49
Dimethylphthalate
Concen: 6.50 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	115251		
194	3.8		2.6	4.0
164	10.4		8.4	12.6





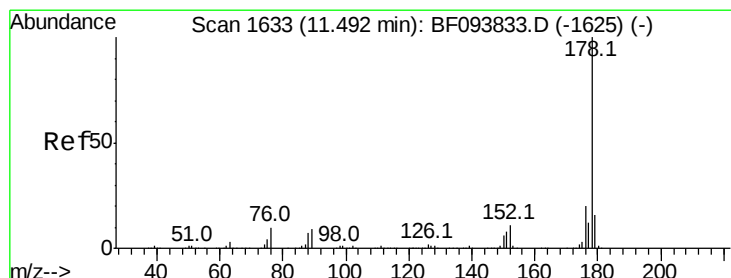
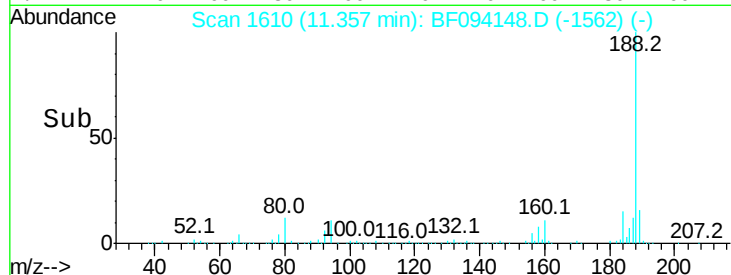
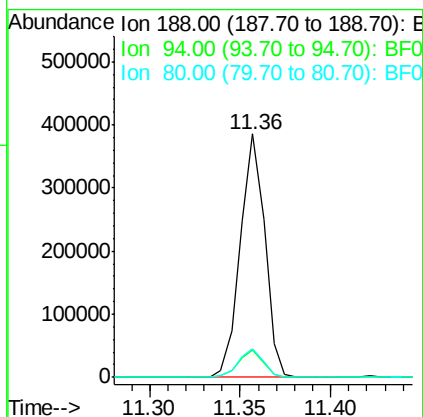
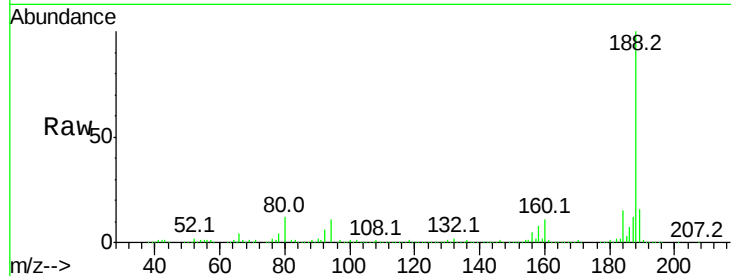
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1610
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	364082		
94	11.3		9.4	14.2
80	11.6		10.2	15.2

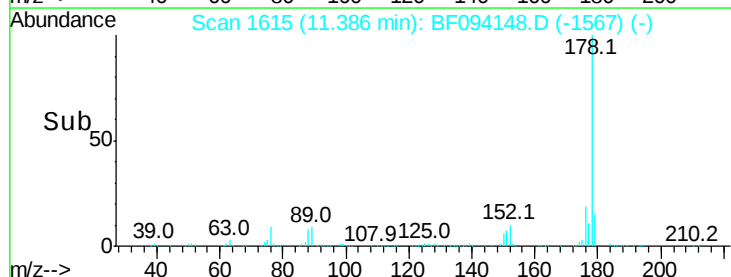
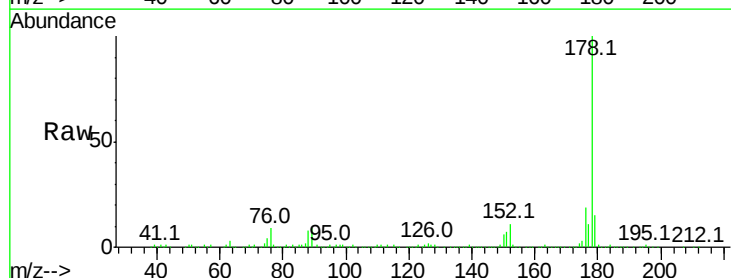
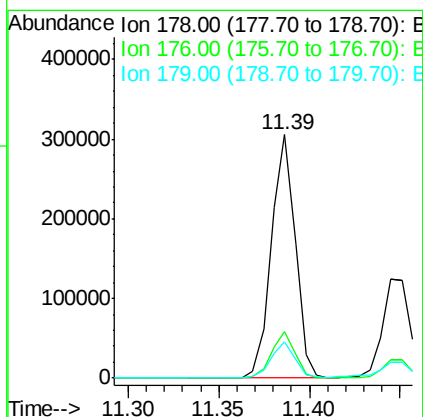
Manual Integrations
 APPROVED

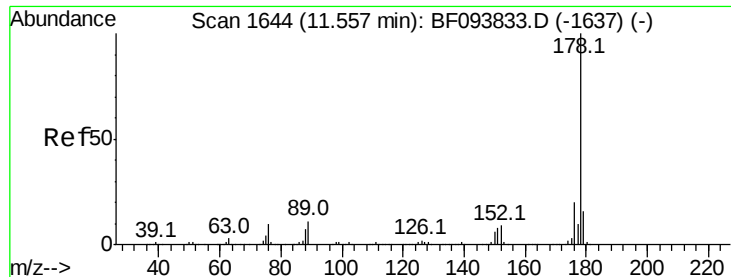
mohammad
 4/4/2017 5:34:55 PM



#70
 Phenanthrene
 Concen: 13.77 ng
 RT: 11.39 min Scan# 1615
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	278824		
176	19.2		16.2	24.4
179	15.1		12.6	19.0





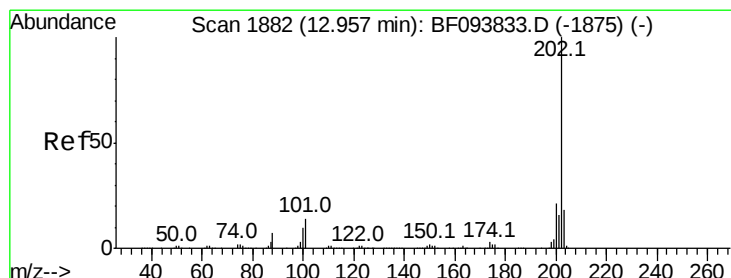
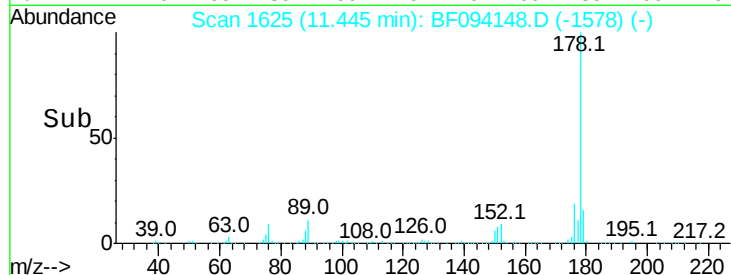
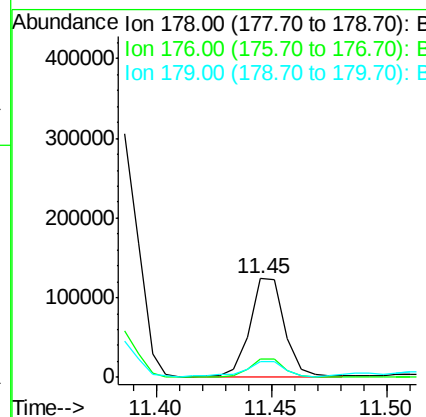
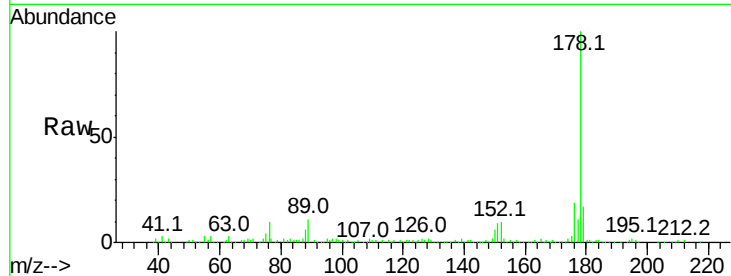
#71
 Anthracene
 Concen: 6.16 ng
 RT: 11.45 min Scan# 1625
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	16.6	12.7	19.1

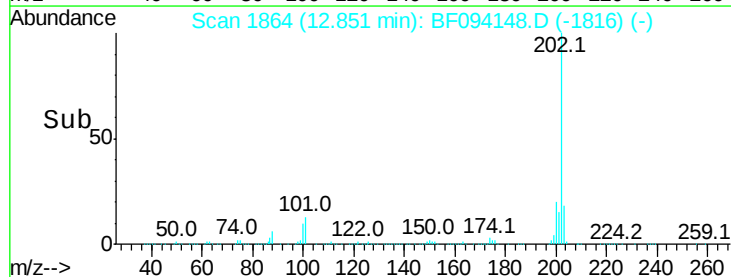
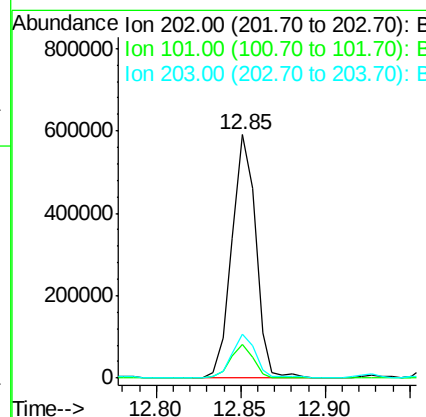
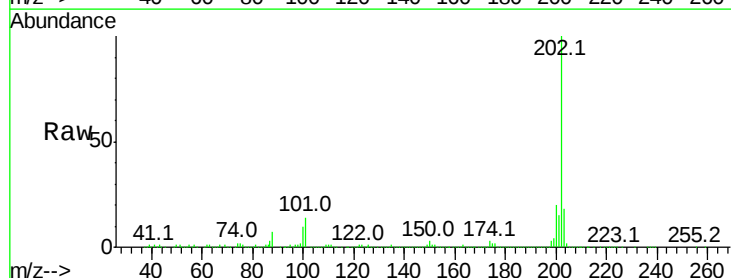
Manual Integrations
 APPROVED

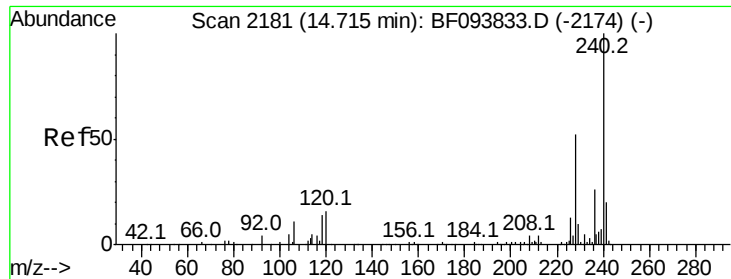
mohammad
 4/4/2017 5:34:55 PM



#74
 Fluoranthene
 Concen: 27.86 ng
 RT: 12.85 min Scan# 1864
 Delta R.T. -0.02 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

Instrument :

BNA_F

ClientSampleId :

E2-P11-BASE

Tot Ion:240 Resp: 311875

Ion Ratio Lower Upper

240 100

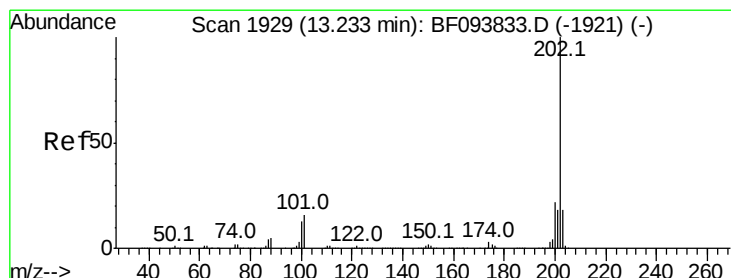
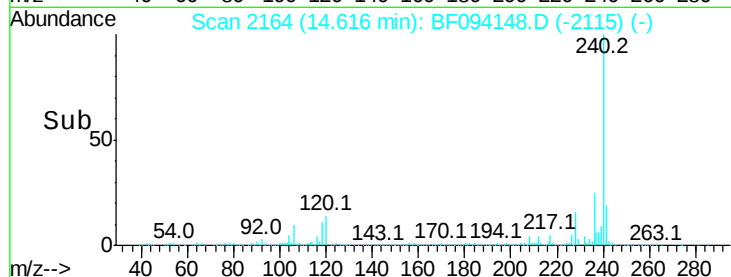
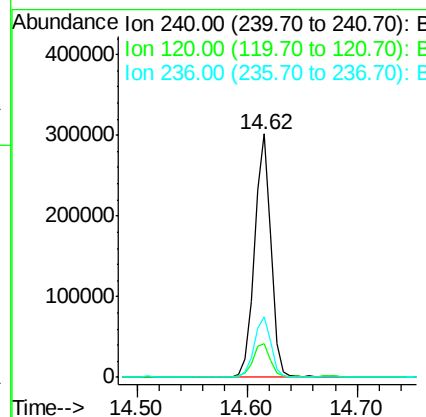
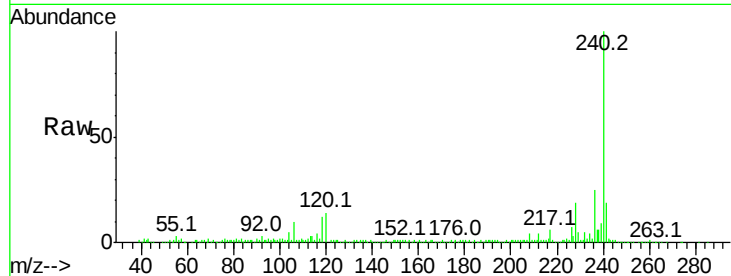
120 13.9 5.8 8.8#

236 25.1 20.5 30.7

Manual Integrations
APPROVED

mohammad

4/4/2017 5:34:55 PM



#77

Pyrene

Concen: 29.25 ng

RT: 13.13 min Scan# 1911

Delta R.T. -0.02 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

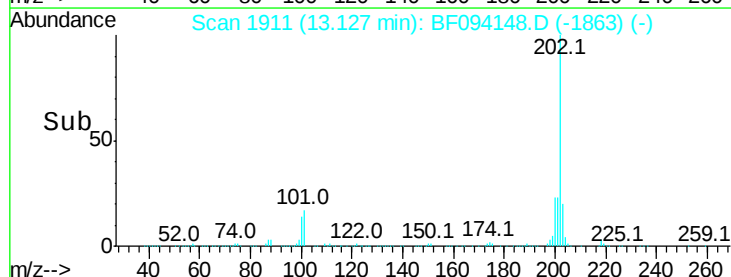
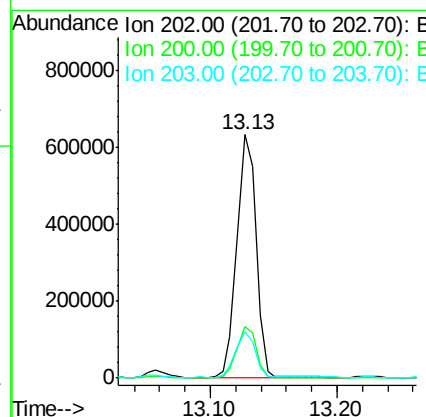
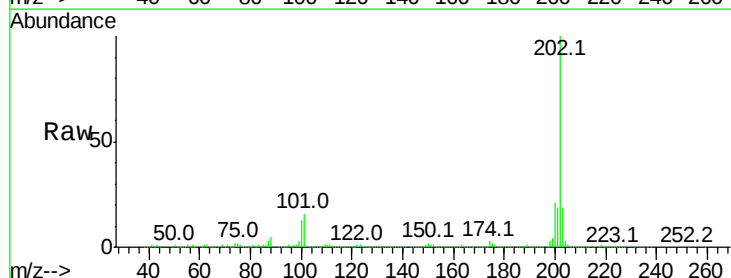
Tgt Ion:202 Resp: 661982

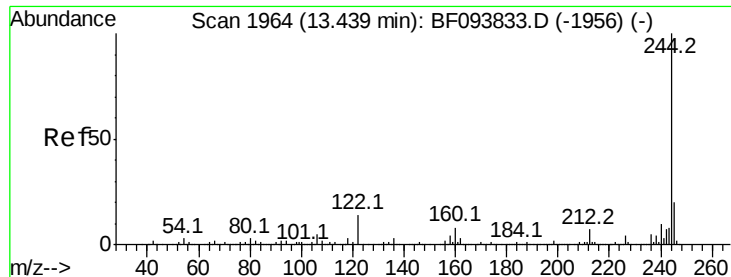
Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

203 18.9 14.4 21.6





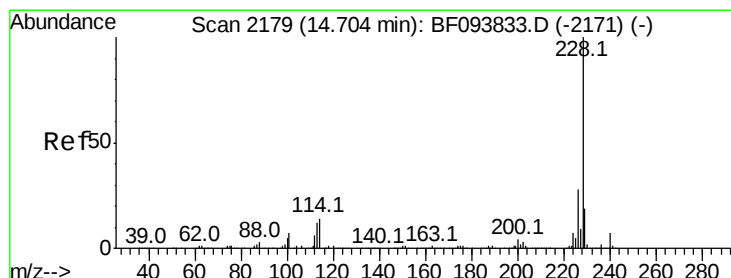
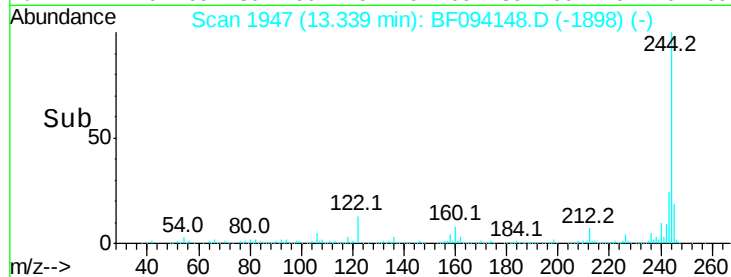
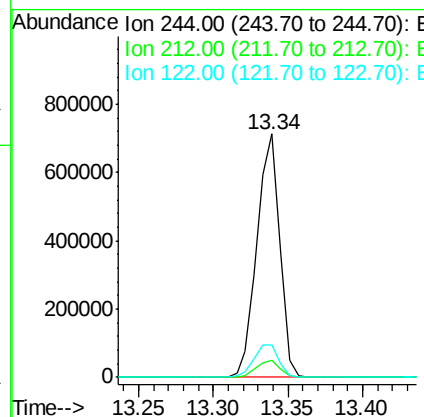
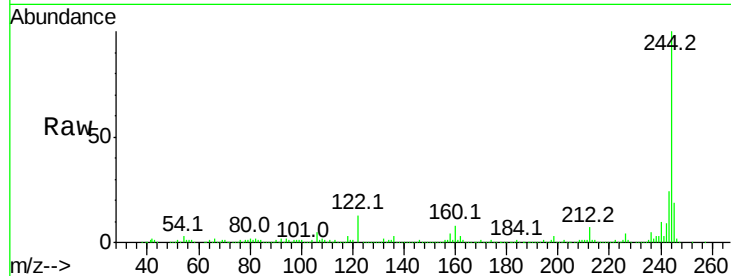
#78
 Terphenyl-d14
 Concen: 53.63 ng
 RT: 13.34 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-P11-BASE

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	6.9	6.0	9.0
122	13.5	10.3	15.5

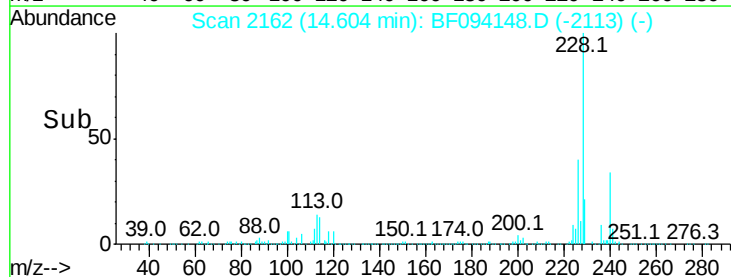
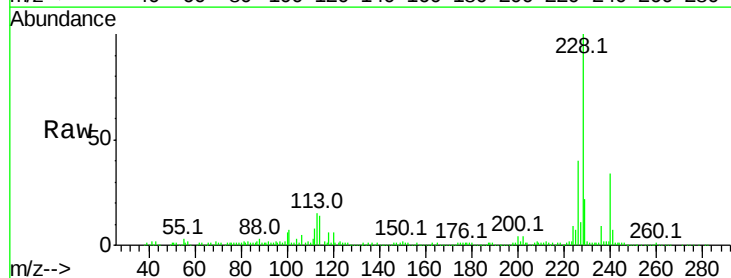
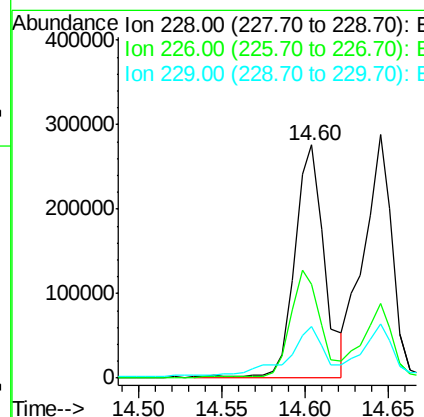
Manual Integrations
 APPROVED

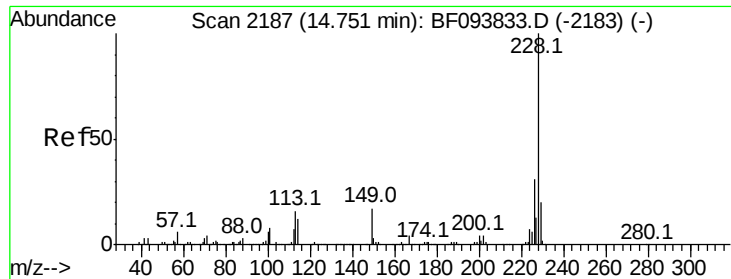
mohammad
 4/4/2017 5:34:55 PM



#80
 Benzo(a)anthracene
 Concen: 18.98 ng m
 RT: 14.60 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: BF094148.D
 Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	40.4	22.6	33.8#
229	22.0	16.3	24.5





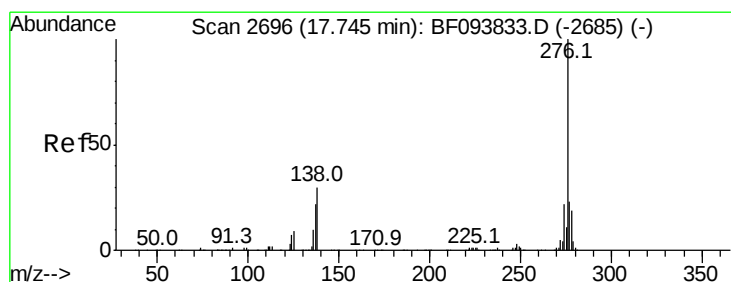
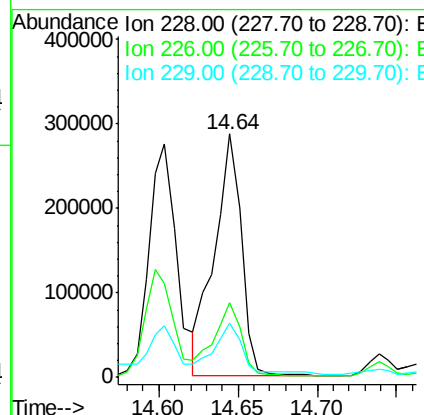
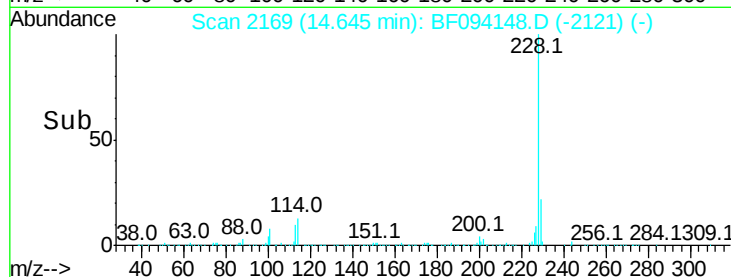
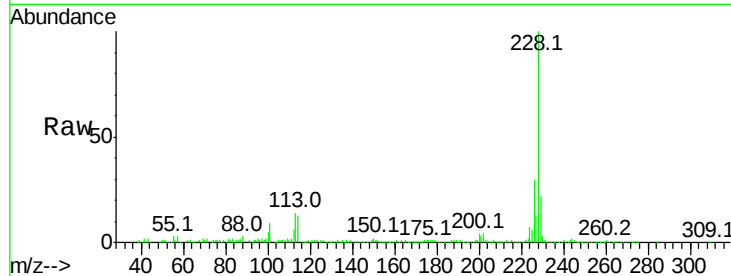
#82
Chrysene
Concen: 20.24 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Instrument :
BNA_F
ClientSampleId :
E2-P11-BASE

Tot Ion:	228	Resp:	341531
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.9	37.3
229	22.4	15.8	23.6

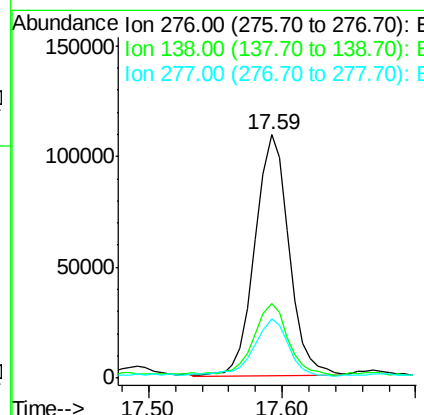
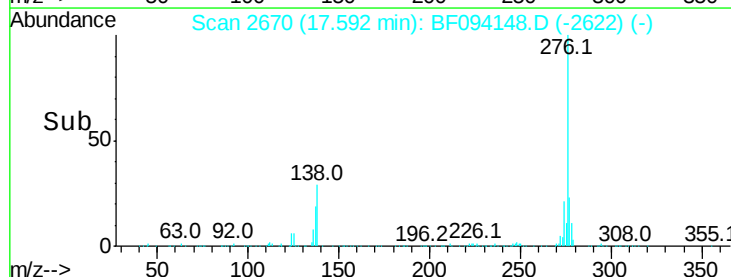
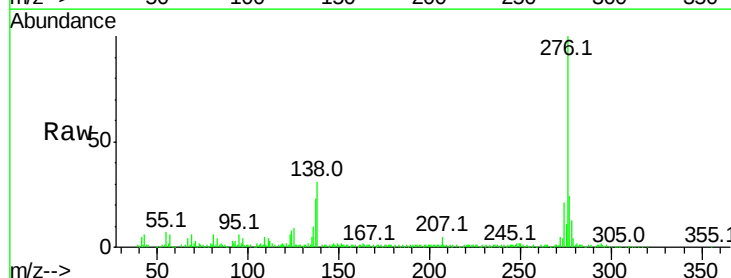
Manual Integrations
APPROVED

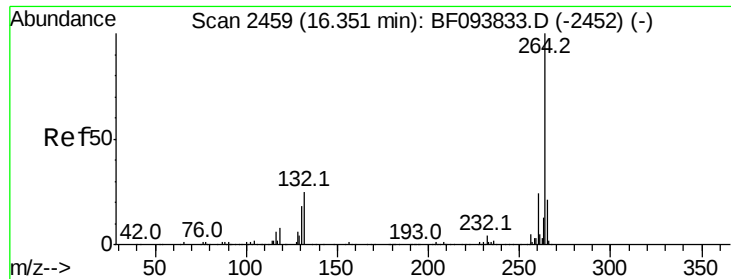
mohammad
4/4/2017 5:34:55 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.13 ng
RT: 17.59 min Scan# 2670
Delta R.T. -0.02 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Tgt Ion:	276	Resp:	191844
Ion Ratio	Lower	Upper	
276	100		
138	29.4	27.8	41.6
277	24.5	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.25 min Scan# 2442

Delta R.T. -0.00 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

Instrument :

BNA_F

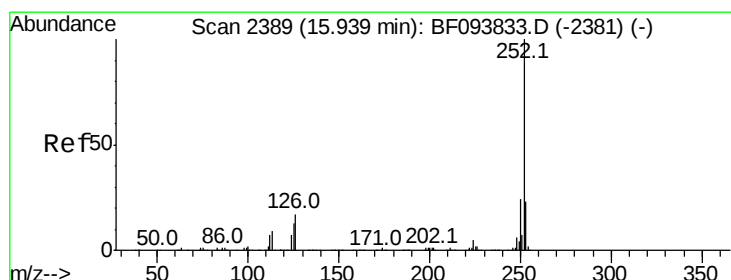
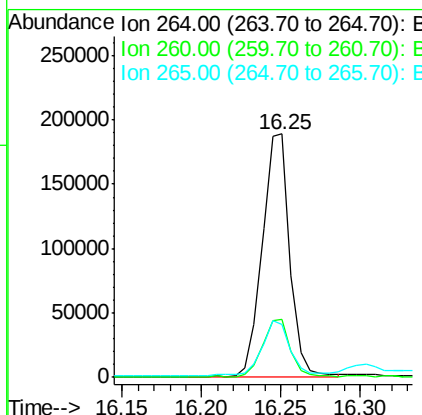
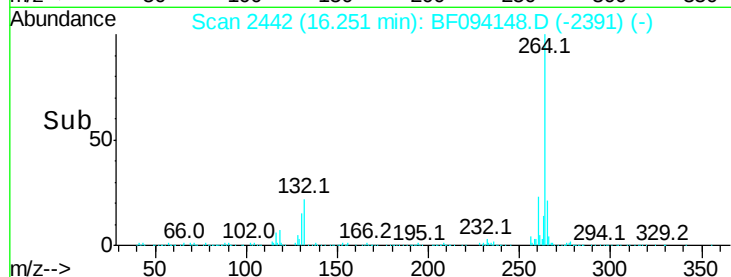
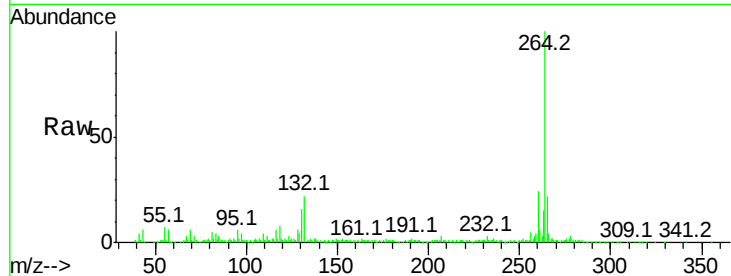
ClientSampleId :

E2-P11-BASE

Tot Ion:	264	Resp:	231614
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.5	29.3
265	21.6	17.2	25.8

Manual Integrations
APPROVED

mohammad
4/4/2017 5:34:55 PM



#87

Benzo(b)fluoranthene

Concen: 32.39 ng m

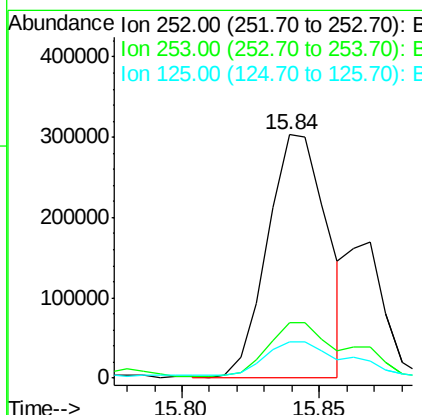
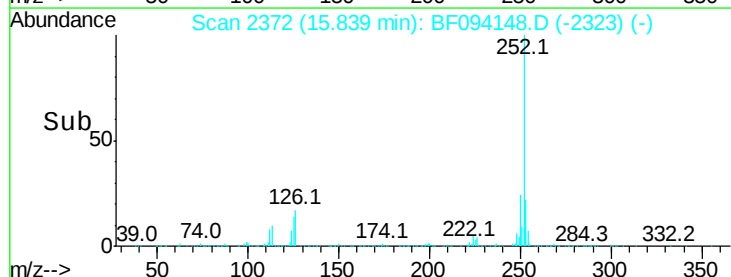
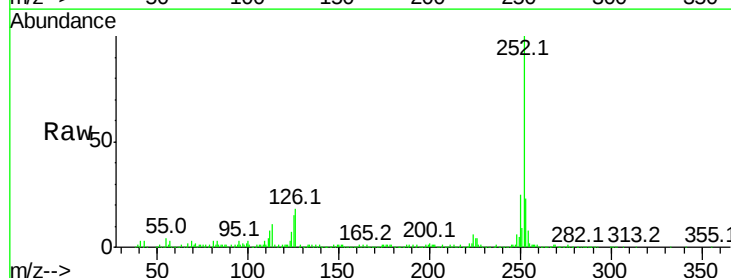
RT: 15.84 min Scan# 2372

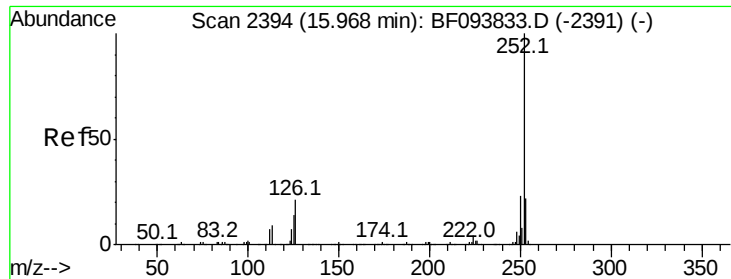
Delta R.T. -0.01 min

Lab File: BF094148.D

Acq: 4 Apr 2017 5:13

Tgt Ion:	252	Resp:	459789
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.1	27.1
125	14.9	9.8	14.8#





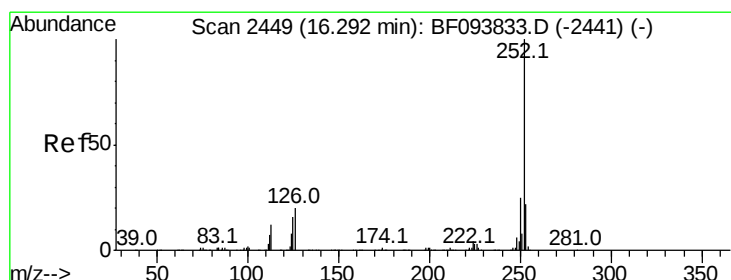
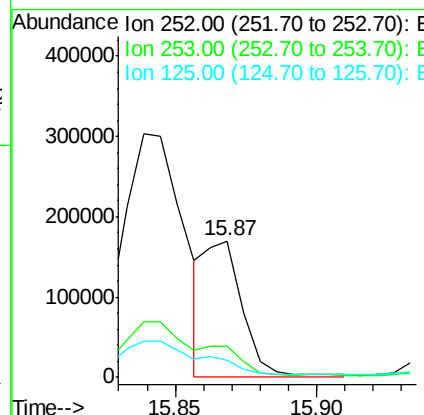
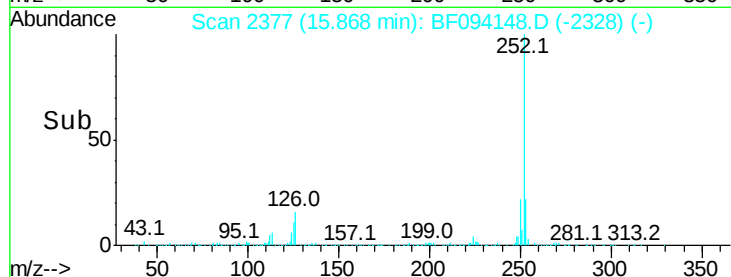
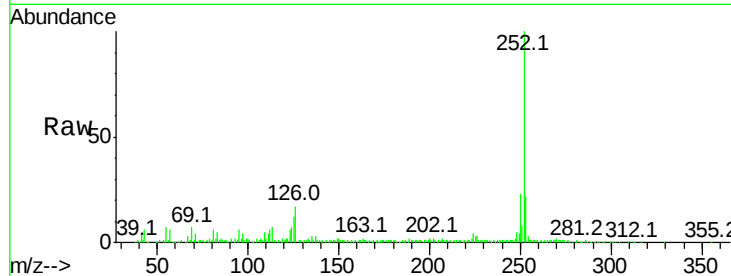
#88
Benzo(k)fluoranthene
Concen: 11.51 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Instrument :
BNA_F
ClientSampleId :
E2-P11-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	12.3	13.1	19.7

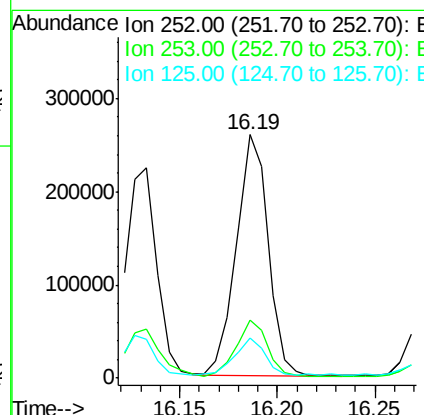
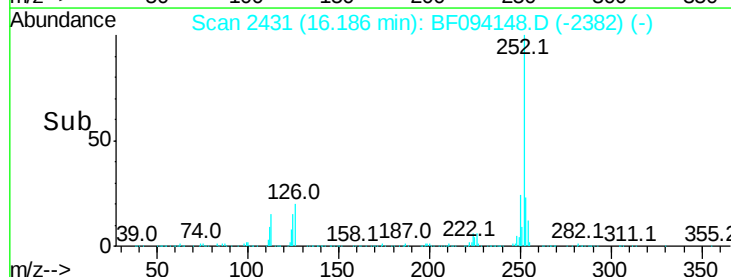
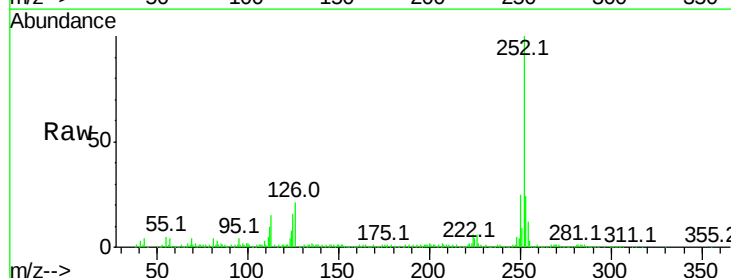
Manual Integrations
APPROVED

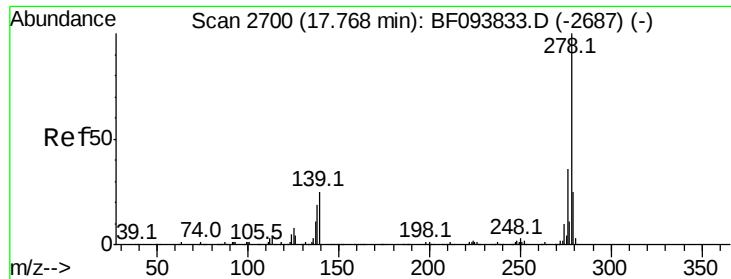
mohammad
4/4/2017 5:34:55 PM



#89
Benzo(a)pyrene
Concen: 22.52 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	16.2	11.0	16.4





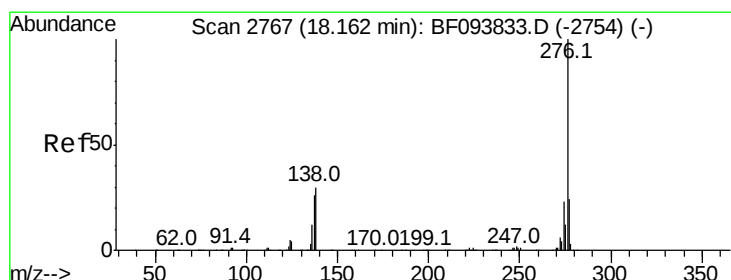
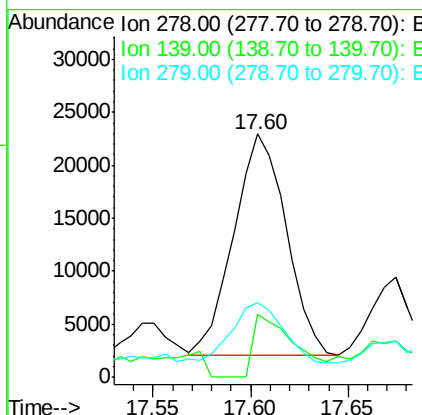
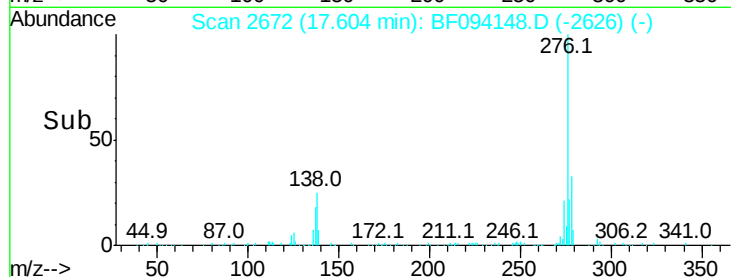
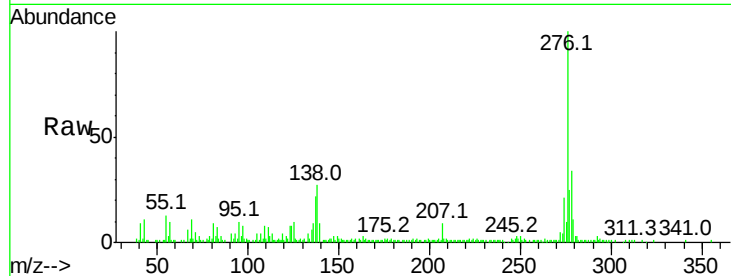
#90
Dibenzo(a,h)anthracene
Concen: 3.51 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.03 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Instrument :
BNA_F
ClientSampleId :
E2-P11-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.0	16.6	24.8#
279	30.8	19.3	28.9#

Manual Integrations
APPROVED

mohammad
4/4/2017 5:34:55 PM



#91
Benzo(g,h,i)perylene
Concen: 18.91 ng
RT: 17.99 min Scan# 2738
Delta R.T. -0.02 min
Lab File: BF094148.D
Acq: 4 Apr 2017 5:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.6	28.0
138	31.5	25.4	38.0

