

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051117\
 Data File : BF095094.D
 Acq On : 11 May 2017 22:49
 Operator : SJ/MA
 Sample : I3065-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PE-1

Manual Integrations
 APPROVED

mohammad
 5/12/2017 3:36:13 PM

Quant Time: May 12 04:19:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	83972	20.00	ng	-0.03
21) Naphthalene-d8	9.72	136	354625	20.00	ng	-0.03
38) Acenaphthene-d10	12.55	164	169160	20.00	ng	-0.03
63) Phenanthrene-d10	14.95	188	304502	20.00	ng	-0.03
75) Chrysene-d12	18.62	240	211197	20.00	ng	-0.03
86) Perylene-d12	20.29	264	183726	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	672280	133.48	ng	-0.03
7) Phenol-d6	7.25	99	831401	137.58	ng	-0.03
23) Nitrobenzene-d5	8.61	82	489251	87.00	ng	-0.03
41) 2,4,6-Tribromophenol	13.85	330	185584	133.96	ng	-0.04
44) 2-Fluorobiphenyl	11.50	172	1012668	86.17	ng	-0.03
78) Terphenyl-d14	17.28	244	849327	88.58	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	12.19	163	176351	12.70	ng	100
70) Phenanthrene	14.99	178	352719	20.16	ng	98
71) Anthracene	15.08	178	98701m	5.52	ng	
72) Carbazole	15.38	167	43270	2.66	ng	98
74) Fluoranthene	16.74	202	722886	40.28	ng	98
77) Pyrene	17.04	202	674173	42.68	ng	98
80) Benzo(a)anthracene	18.61	228	370611	30.15	ng	98
82) Chrysene	18.66	228	356464m	29.99	ng	
85) Indeno(1,2,3-cd)pyrene	21.58	276	219162	22.71	ng	91
87) Benzo(b)fluoranthene	19.89	252	418245m	36.84	ng	
88) Benzo(k)fluoranthene	19.91	252	144989m	13.24	ng	
89) Benzo(a)pyrene	20.24	252	331309	31.63	ng	97
90) Dibenzo(a,h)anthracene	21.59	278	54443m	6.29	ng	
91) Benzo(g,h,i)perylene	21.96	276	204689	24.11	ng	96

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

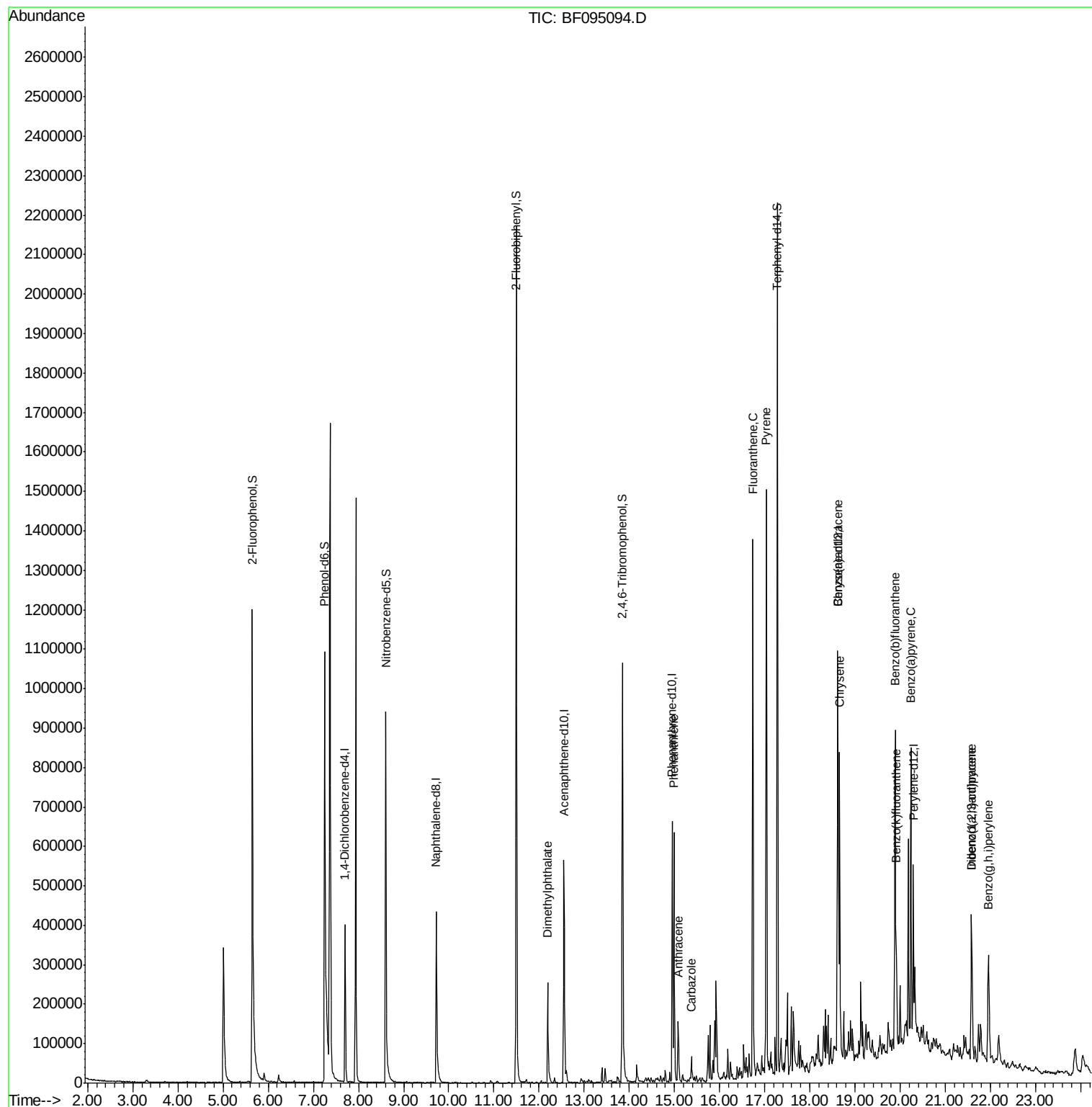
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051117\
Data File : BF095094.D
Acq On : 11 May 2017 22:49
Operator : SJ/MA
Sample : I3065-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

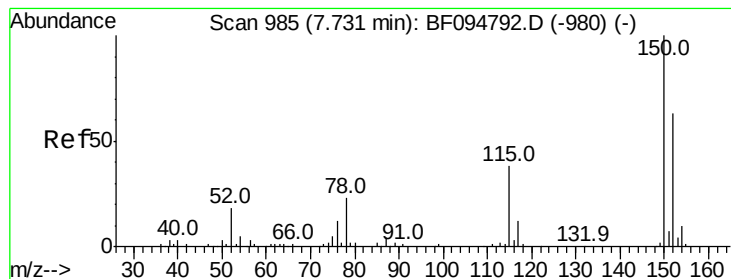
Instrument :
BNA_F
ClientSampleId :
PE-1

Manual Integrations
APPROVED

mohammad
5/12/2017 3:36:13 PM

Quant Time: May 12 04:19:23 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration





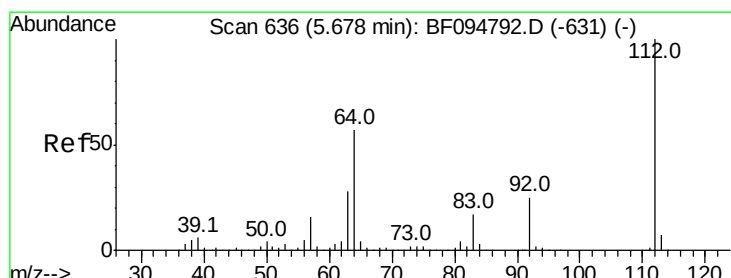
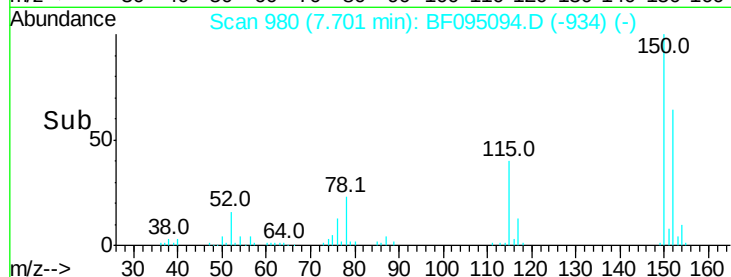
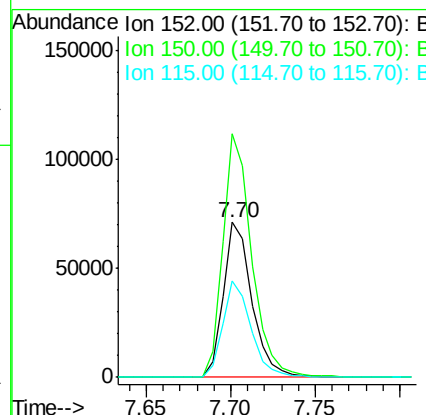
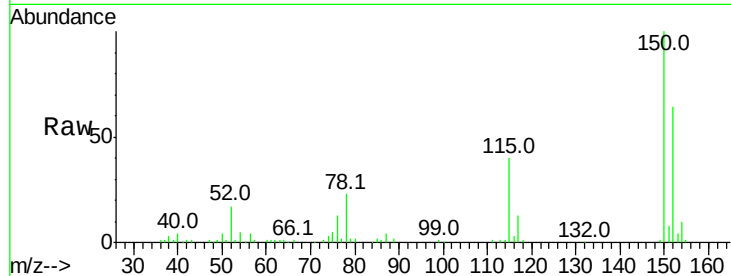
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.70 min Scan# 980
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Instrument :
 BNA_F
 ClientSampled :
 PE-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	126.2	189.2
115	62.5	52.2	78.2

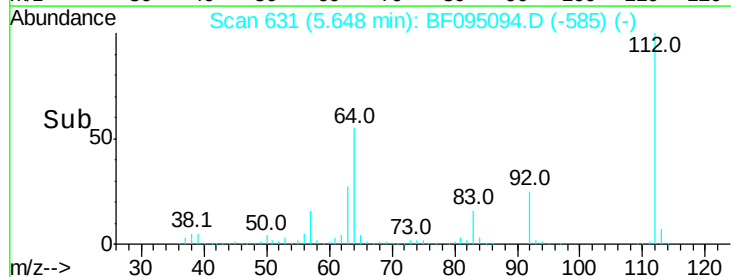
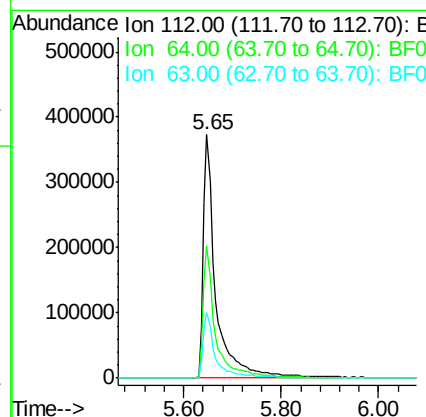
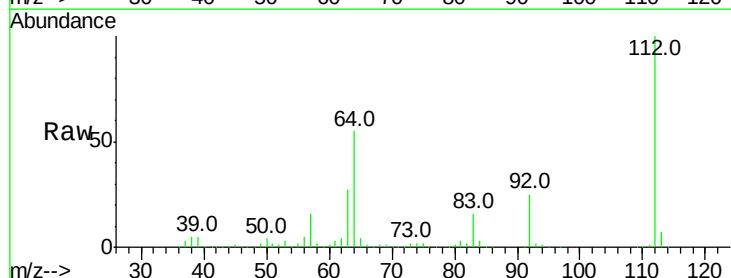
Manual Integrations
 APPROVED

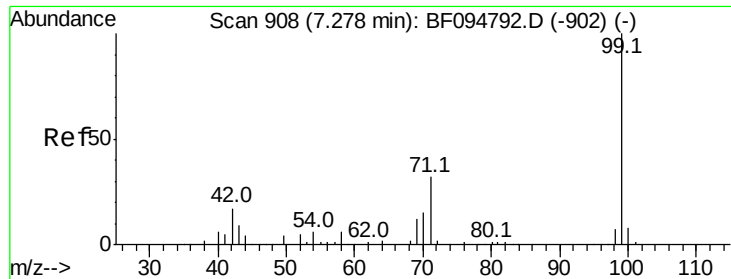
mohammad
 5/12/2017 3:36:13 PM



#5
 2-Fluorophenol
 Concen: 133.48 ng
 RT: 5.65 min Scan# 631
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	46.0	69.0
63	27.1	23.4	35.0





#7

Phenol-d6

Concen: 137.58 ng

RT: 7.25 min Scan# 903

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

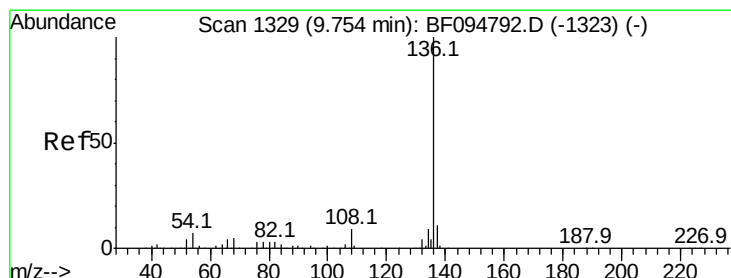
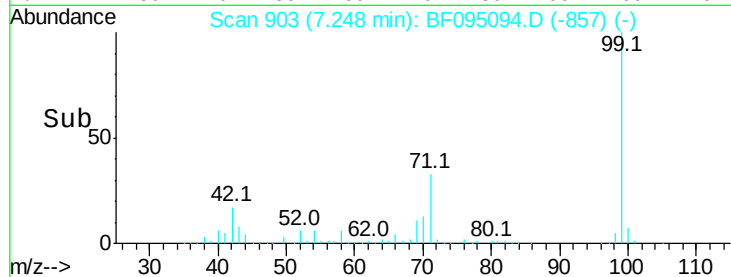
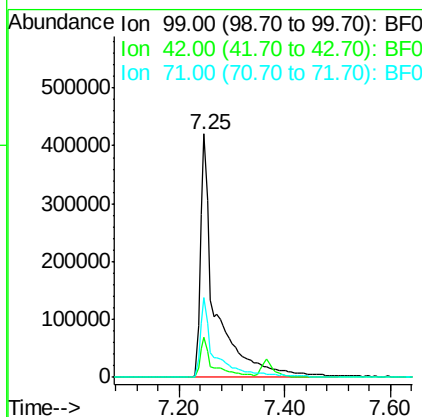
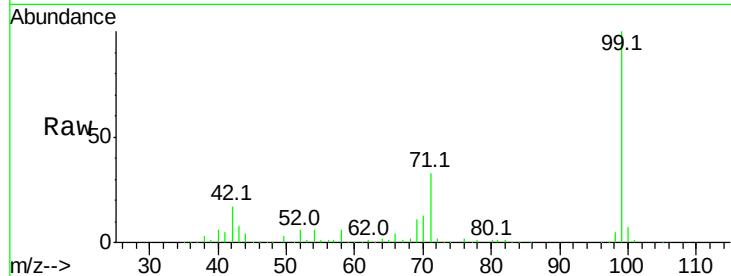
ClientSampled :

PE-1

Tot Ion:	99	Resp:	831401
Ion Ratio	Lower	Upper	
99	100		
42	16.5	13.5	20.3
71	33.0	24.5	36.7

Manual Integrations
APPROVED

mohammad
5/12/2017 3:36:13 PM



#21

Naphthalene-d8

Concen: 20.00 ng

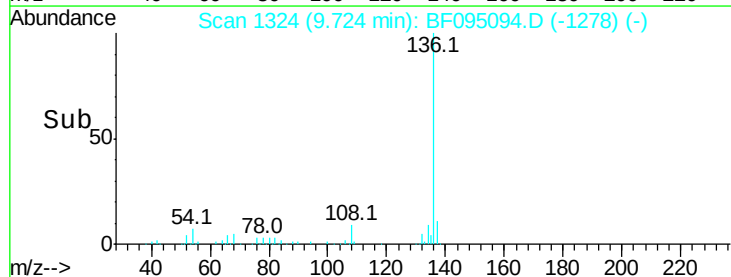
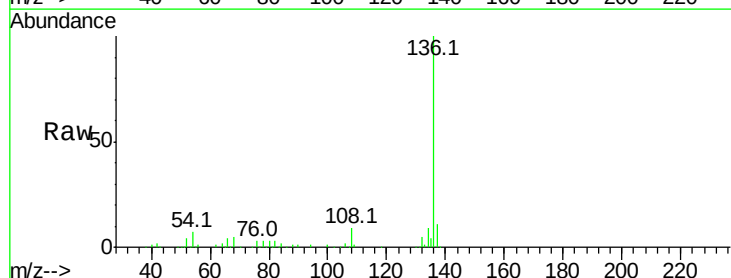
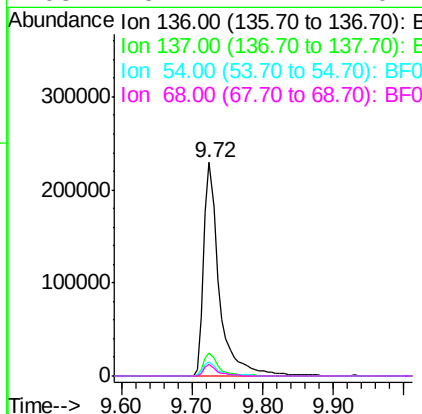
RT: 9.72 min Scan# 1324

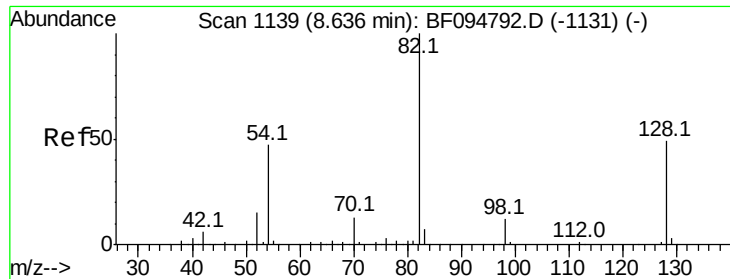
Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Tgt Ion:	136	Resp:	354625
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.5	12.7
54	6.8	4.9	7.3
68	5.2	4.1	6.1





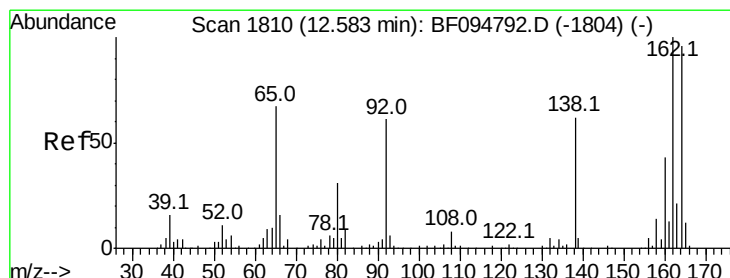
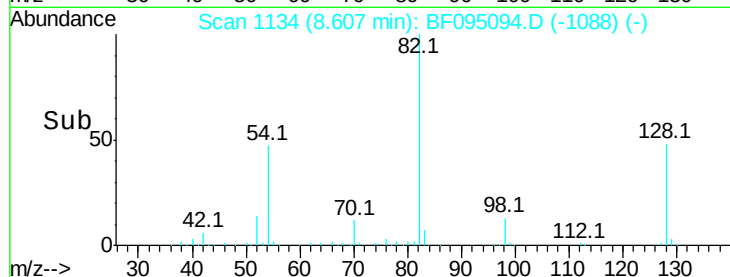
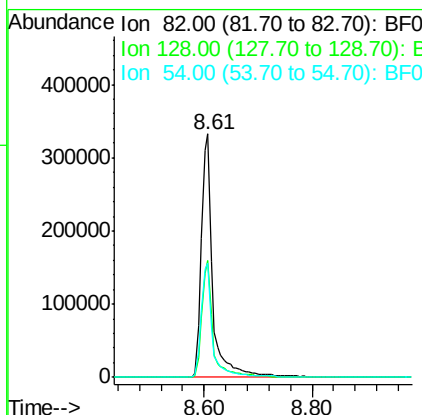
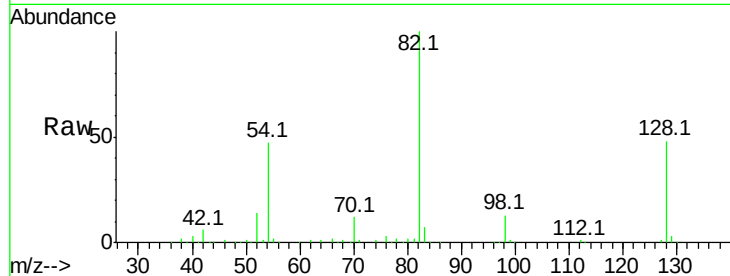
#23
 Nitrobenzene-d5
 Concen: 87.00 ng
 RT: 8.61 min Scan# 1134
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Instrument :
 BNA_F
 ClientSampled :
 PE-1

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.1	34.0	51.0	
54	47.1	42.2	63.2	

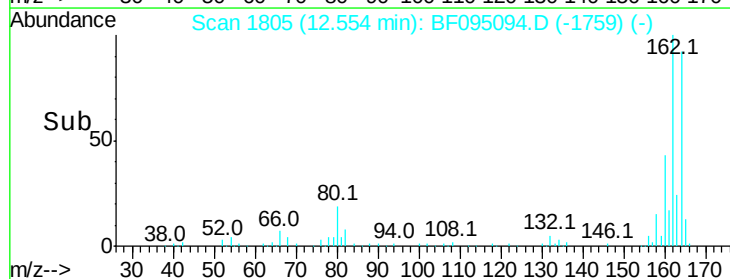
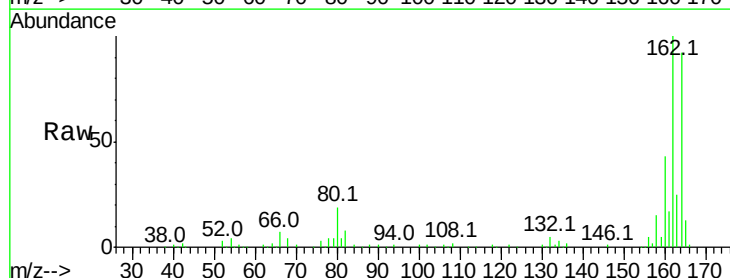
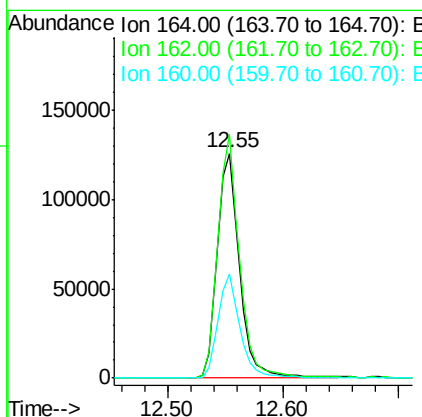
Manual Integrations
 APPROVED

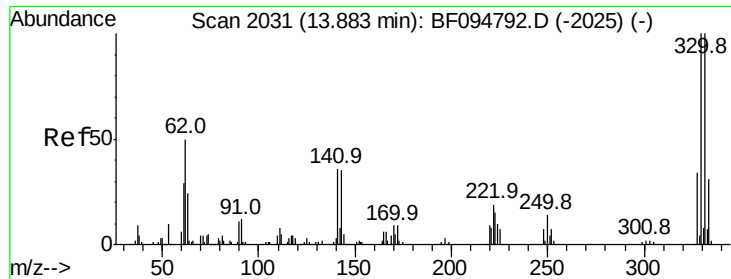
mohammad
 5/12/2017 3:36:13 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.55 min Scan# 1805
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	108.4	82.6	123.8	
160	46.5	36.2	54.2	





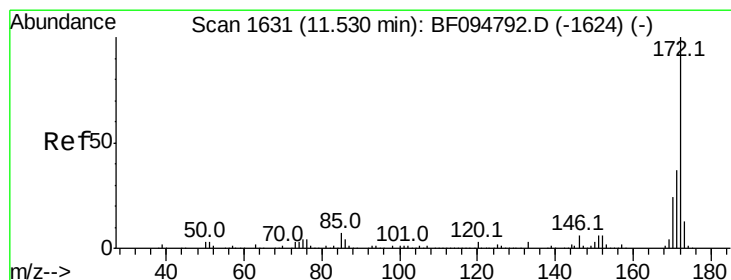
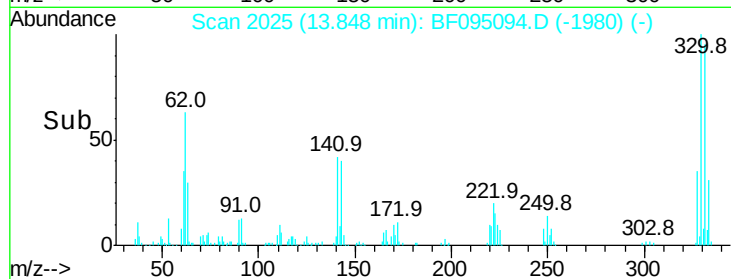
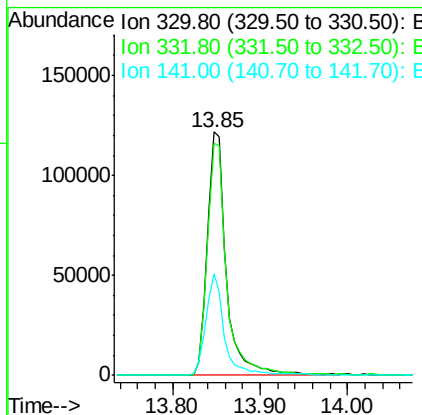
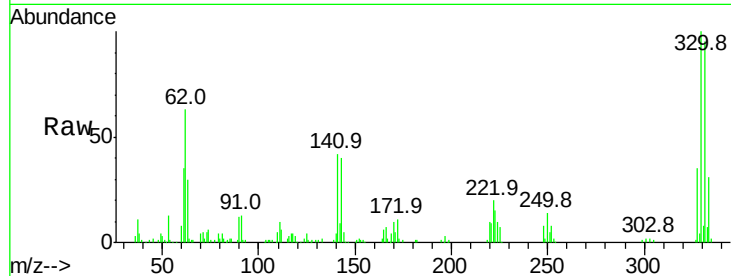
#41
 2,4,6-Tribromophenol
 Concen: 133.96 ng
 RT: 13.85 min Scan# 2025
 Delta R.T. -0.04 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Instrument :
 BNA_F
 ClientSampled :
 PE-1

Tot Ion	Ratio	Resp	Lower	Upper
330	100	185584		
332	97.0	76.6	115.0	
141	40.1	31.4	47.2	

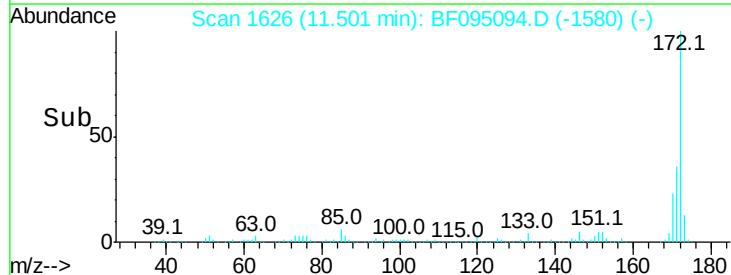
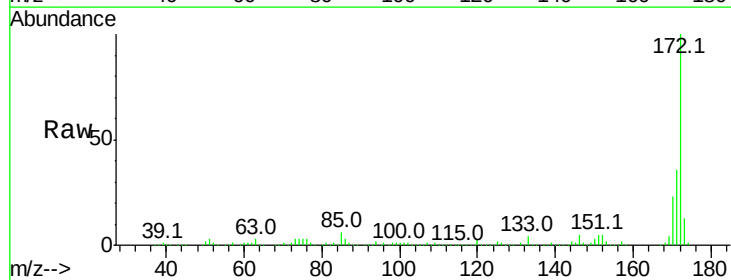
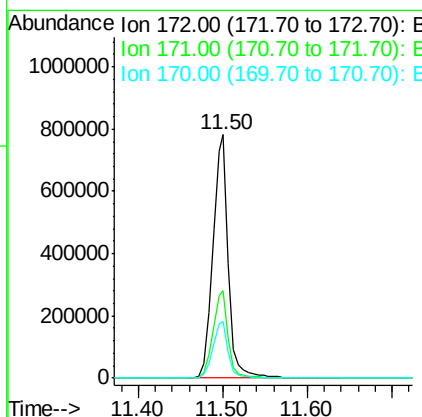
Manual Integrations
 APPROVED

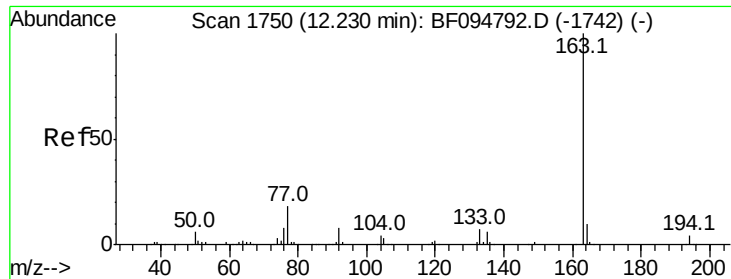
mohammad
 5/12/2017 3:36:13 PM



#44
 2-Fluorobiphenyl
 Concen: 86.17 ng
 RT: 11.50 min Scan# 1626
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1012668		
171	35.8	29.6	44.4	
170	23.3	19.8	29.8	





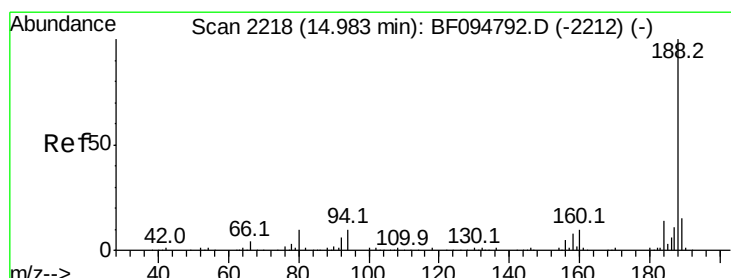
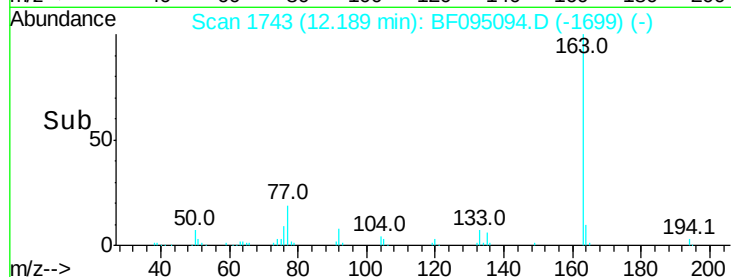
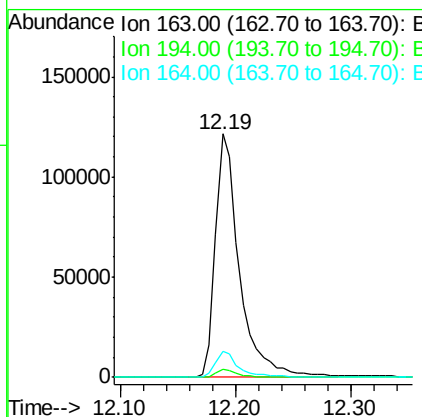
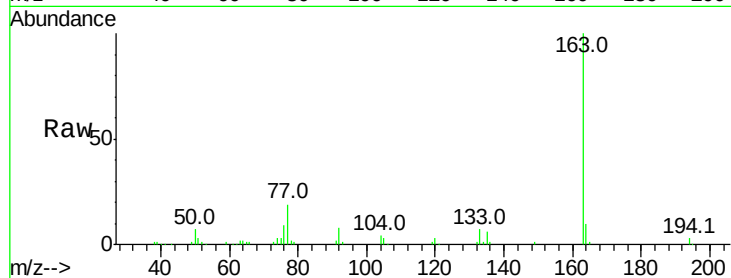
#49
Dimethylphthalate
Concen: 12.70 ng
RT: 12.19 min Scan# 1743
Delta R.T. -0.04 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampleId :
PE-1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	176351		
194	3.4	2.6	4.0	
164	10.5	8.4	12.6	

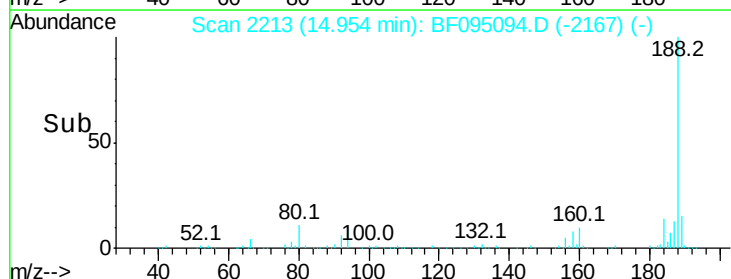
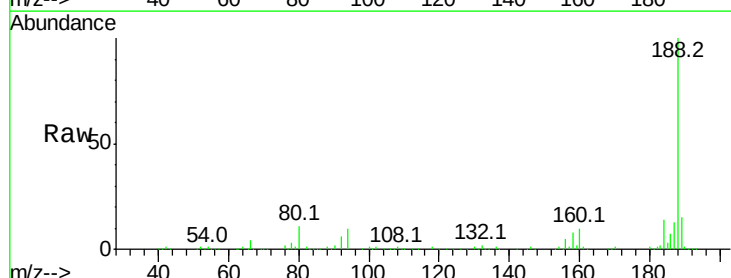
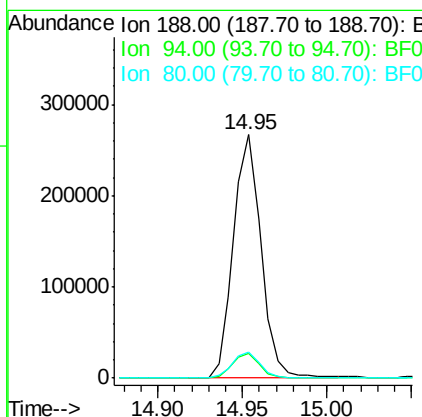
Manual Integrations
APPROVED

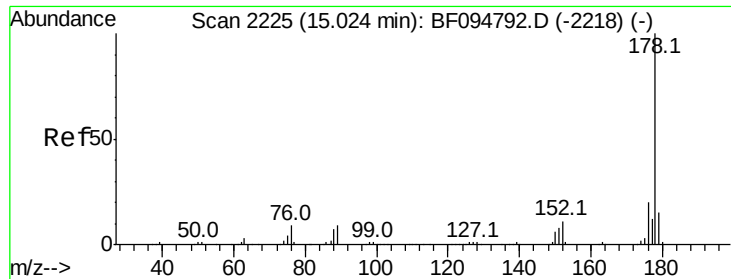
mohammad
5/12/2017 3:36:13 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.95 min Scan# 2213
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	304502		
94	10.0	9.4	14.2	
80	10.8	10.2	15.2	





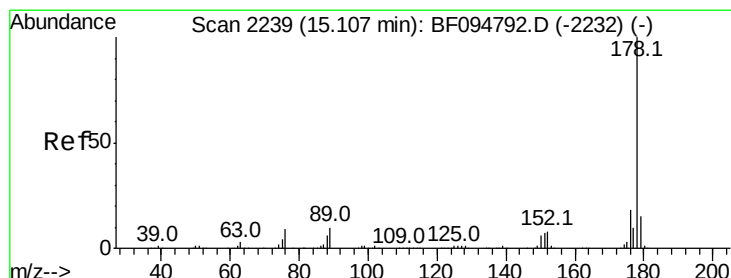
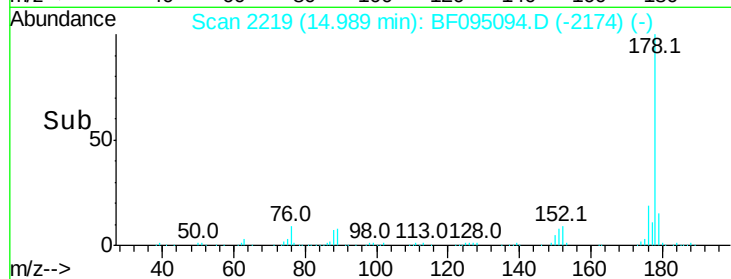
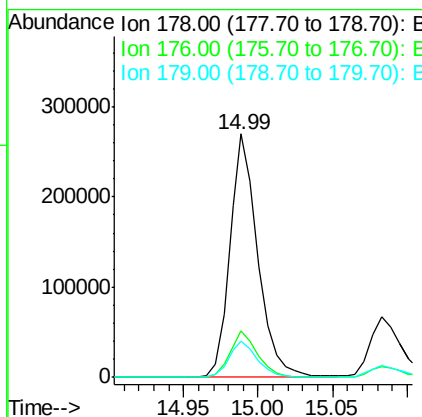
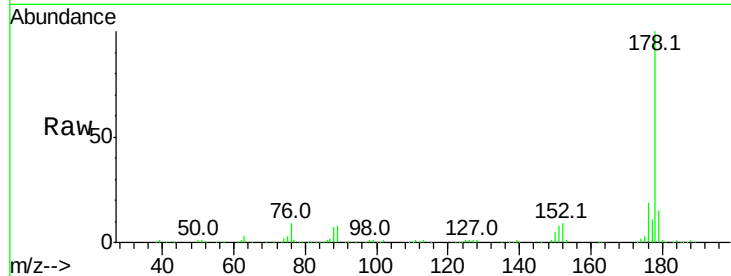
#70
Phenanthrene
Concen: 20.16 ng
RT: 14.99 min Scan# 2219
Delta R.T. -0.04 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampleId :
PE-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.2	24.4
179	15.1	12.6	19.0

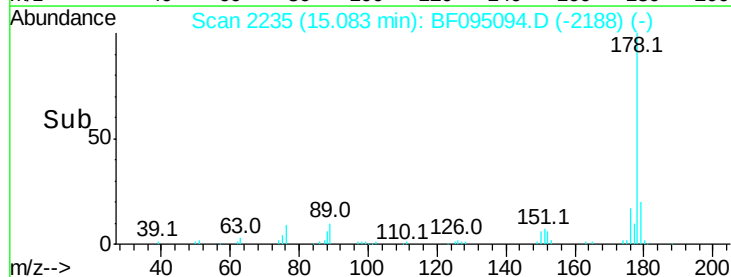
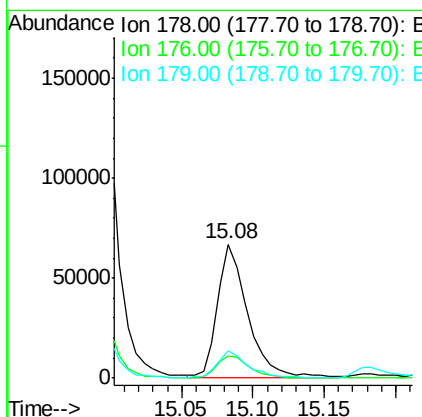
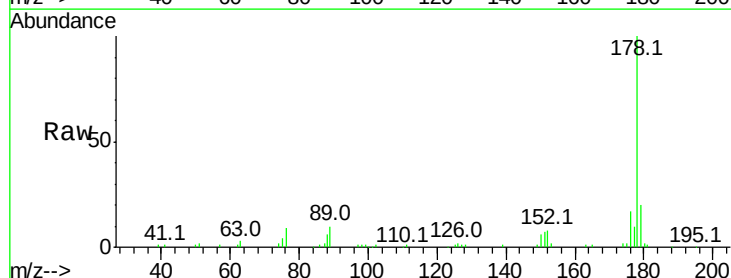
Manual Integrations
APPROVED

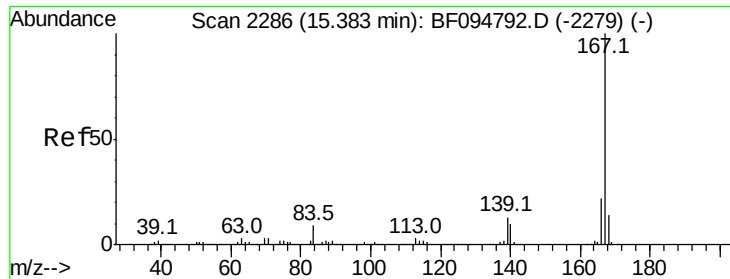
mohammad
5/12/2017 3:36:13 PM



#71
Anthracene
Concen: 5.52 ng m
RT: 15.08 min Scan# 2235
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.9	15.8	23.8
179	19.9	12.7	19.1#





#72

Carbazole

Concen: 2.66 ng

RT: 15.38 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

ClientSampleId :

PE-1

Tot Ion:167 Resp: 43270

Ion Ratio Lower Upper

167 100

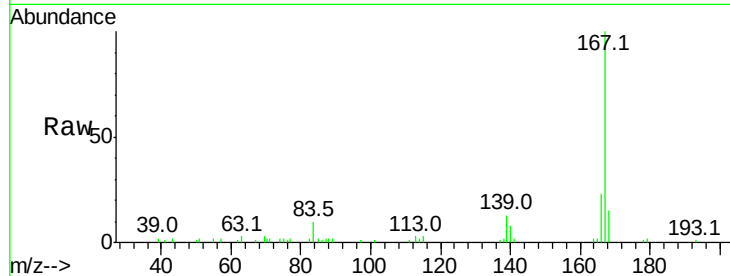
166 22.6 18.1 27.1

139 12.6 11.7 17.5

Manual Integrations
APPROVED

mohammad

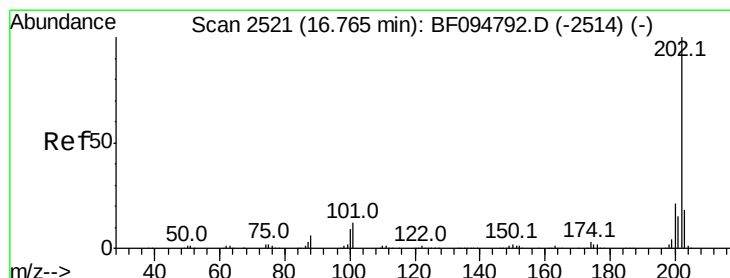
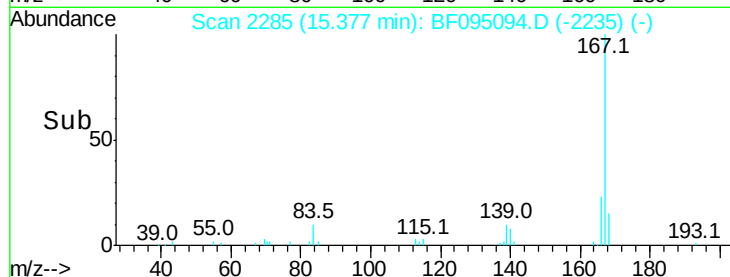
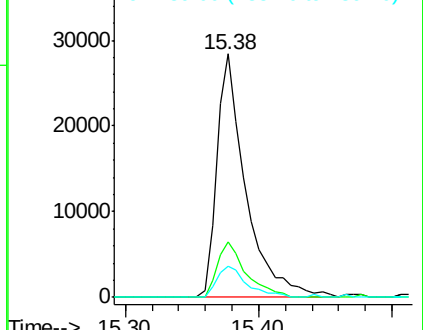
5/12/2017 3:36:13 PM



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 40.28 ng

RT: 16.74 min Scan# 2516

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

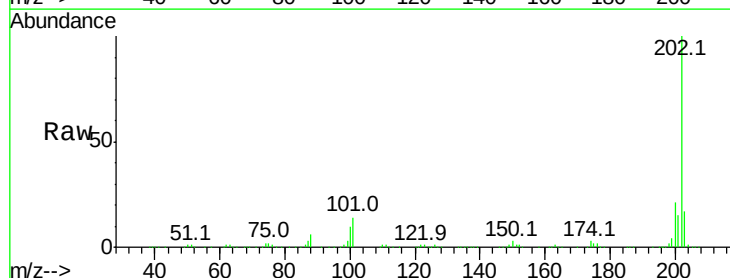
Tgt Ion:202 Resp: 722886

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

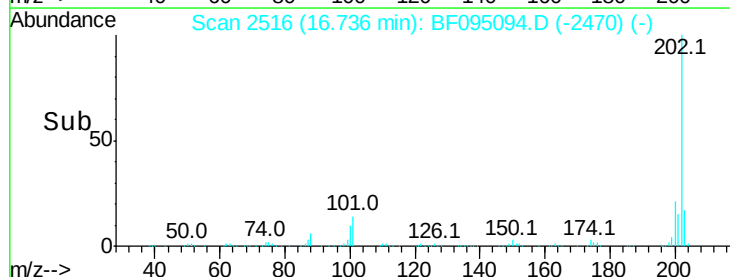
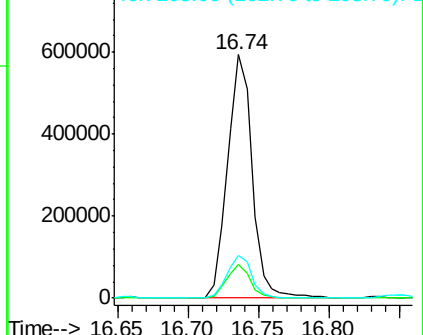
203 17.3 0.0 38.1

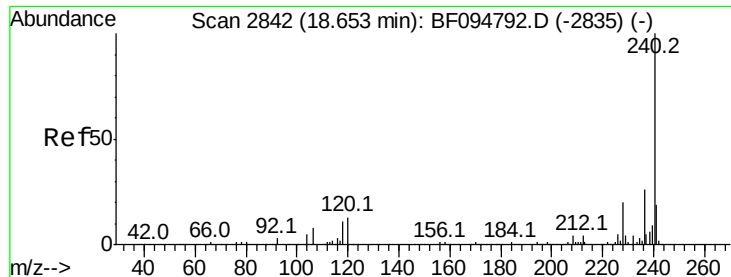


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.62 min Scan# 2837

Delta R.T. -0.03 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

Instrument :

BNA_F

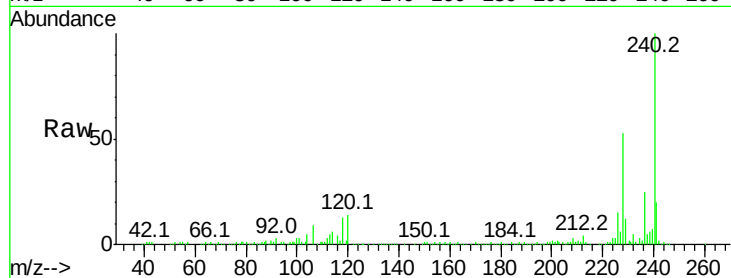
ClientSampled :

PE-1

Tot Ion	Ratio	Resp	Lower	Upper
240	100	211197		
120	13.7	5.8	8.8#	
236	24.7	20.5	30.7	

Manual Integrations
APPROVED

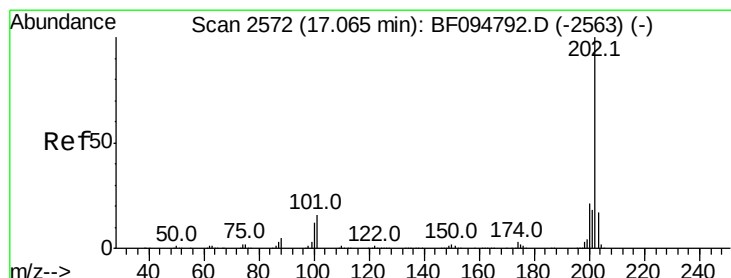
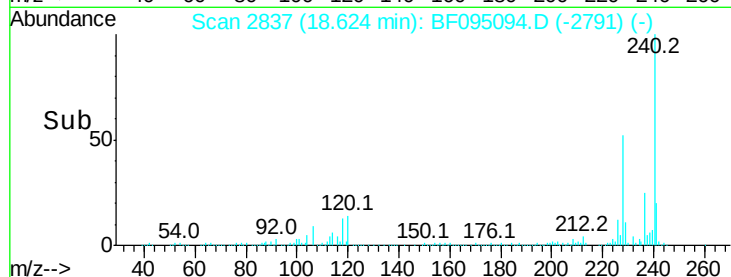
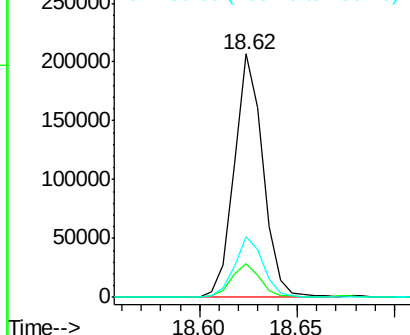
mohammad
5/12/2017 3:36:13 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 42.68 ng

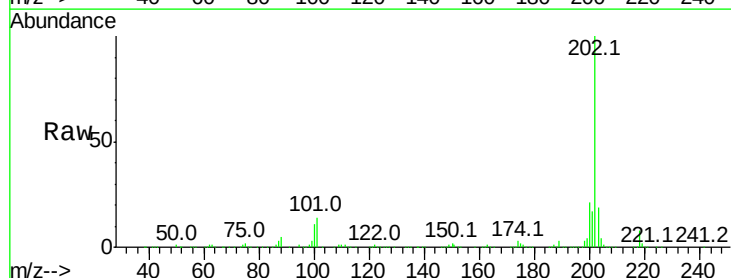
RT: 17.04 min Scan# 2568

Delta R.T. -0.02 min

Lab File: BF095094.D

Acq: 11 May 2017 22:49

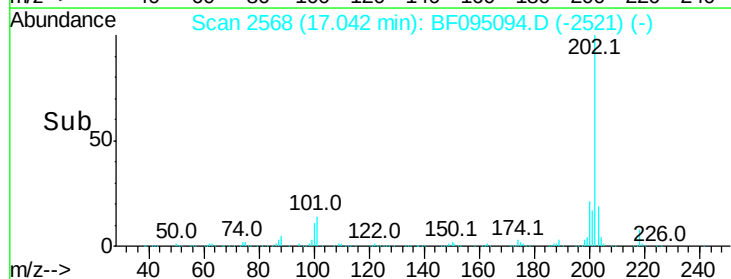
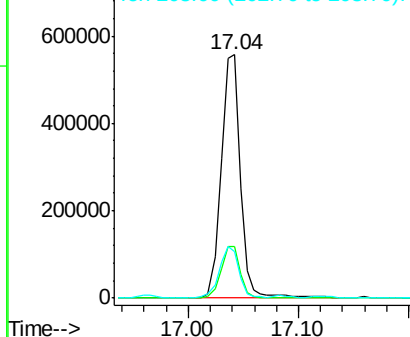
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	674173		
200	21.1	17.6	26.4	
203	19.3	14.4	21.6	

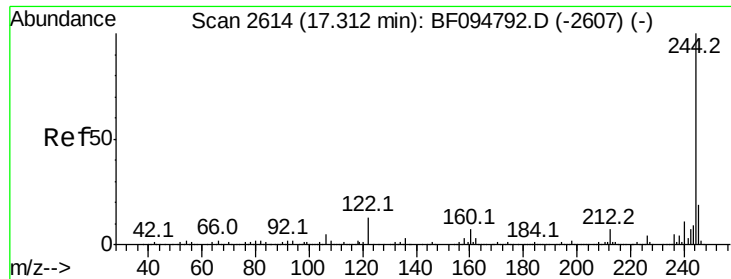


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





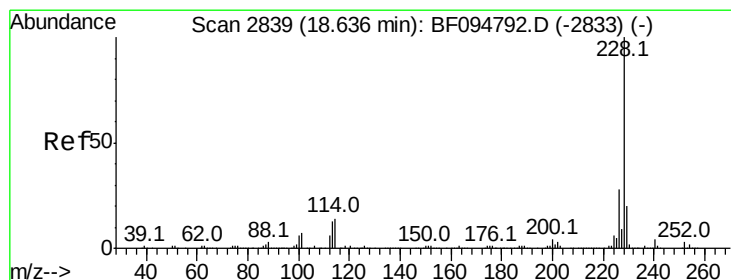
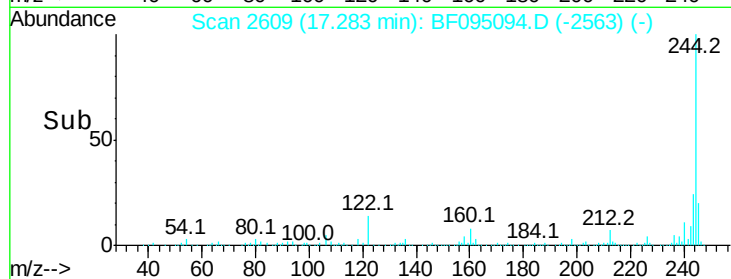
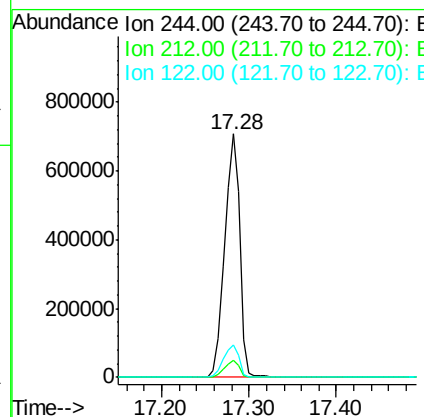
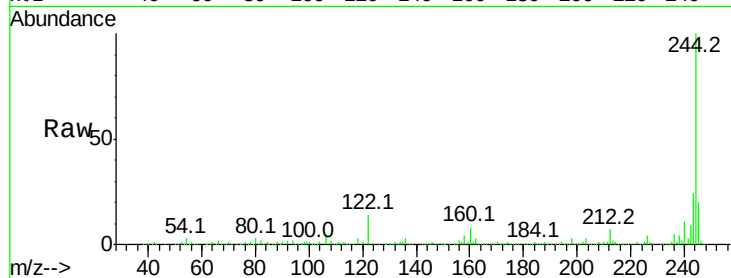
#78
 Terphenyl-d14
 Concen: 88.58 ng
 RT: 17.28 min Scan# 2609
 Delta R.T. -0.03 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Instrument :
 BNA_F
 ClientSampleId :
 PE-1

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.1	6.0	9.0	
122	13.5	10.3	15.5	

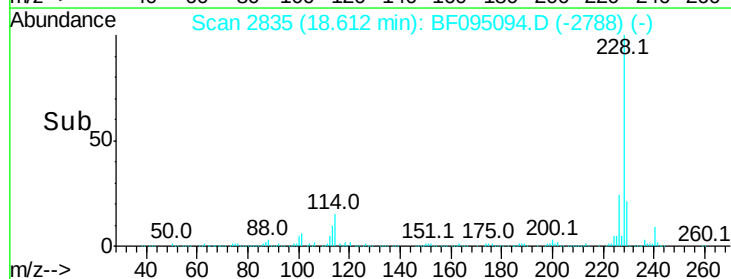
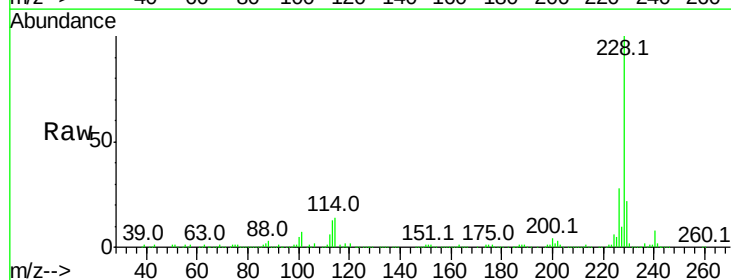
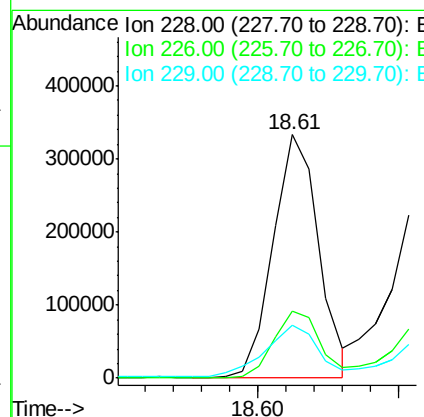
Manual Integrations
 APPROVED

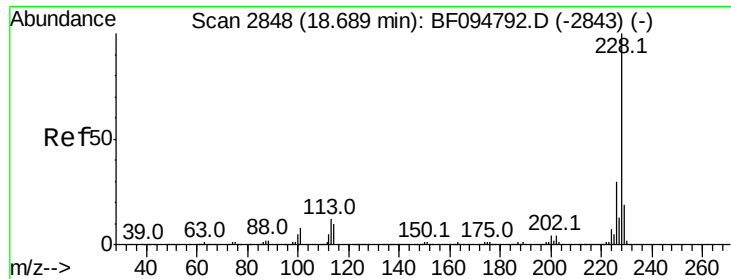
mohammad
 5/12/2017 3:36:13 PM



#80
 Benzo(a)anthracene
 Concen: 30.15 ng
 RT: 18.61 min Scan# 2835
 Delta R.T. -0.02 min
 Lab File: BF095094.D
 Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	27.5	22.6	33.8	
229	21.6	16.3	24.5	





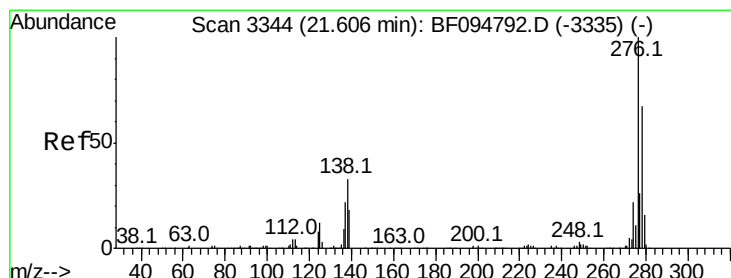
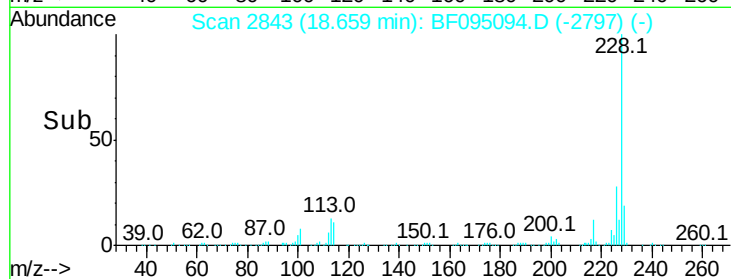
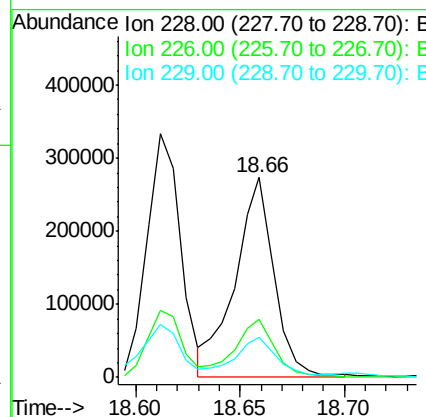
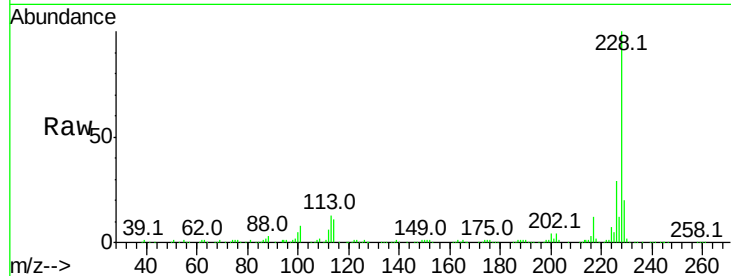
#82
Chrysene
Concen: 29.99 ng/ml
RT: 18.66 min Scan# 2843
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampled :
PE-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	24.9	37.3
229	19.9	15.8	23.6

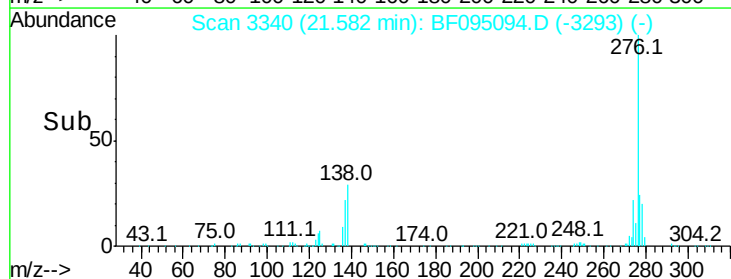
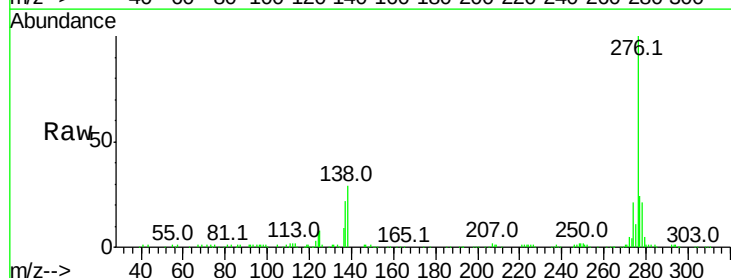
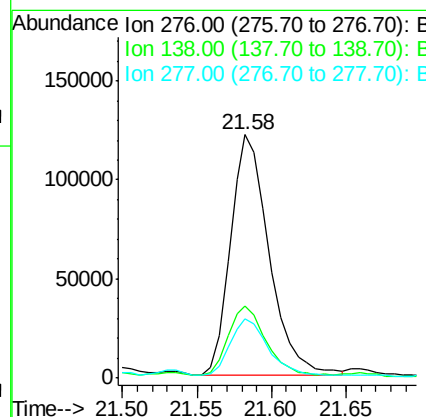
Manual Integrations
APPROVED

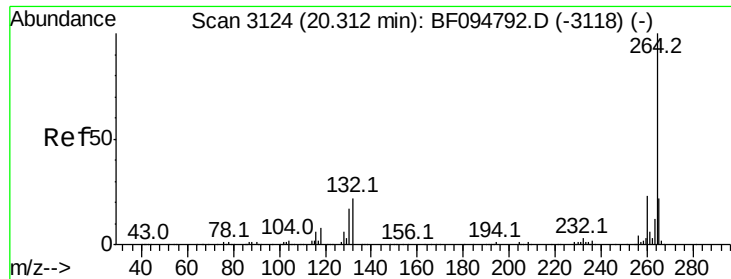
mohammad
5/12/2017 3:36:13 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 22.71 ng/ml
RT: 21.58 min Scan# 3340
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.2	27.8	41.6
277	22.9	20.2	30.4





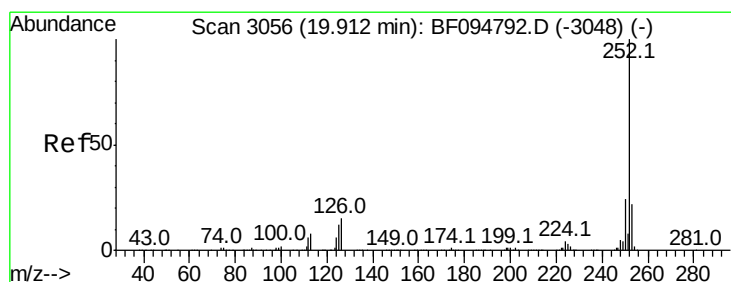
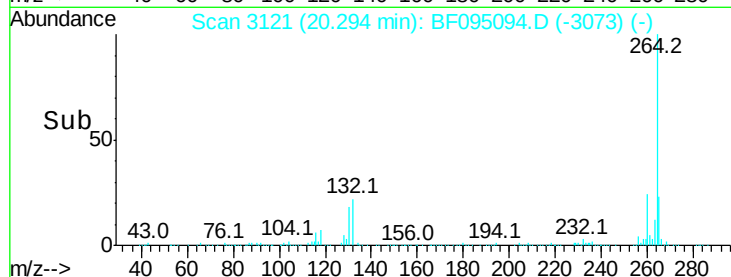
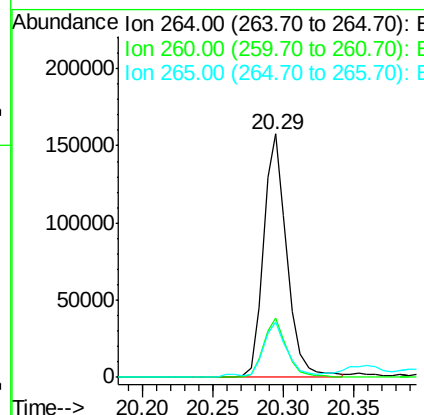
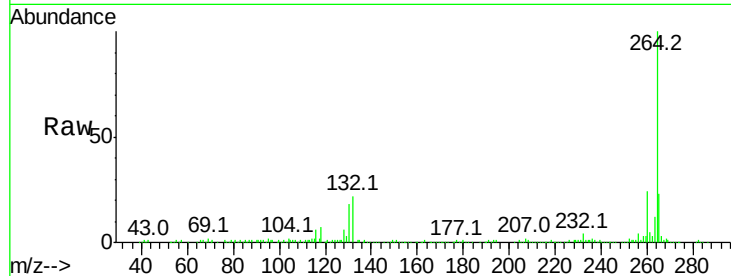
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampleId :
PE-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.6	17.2	25.8

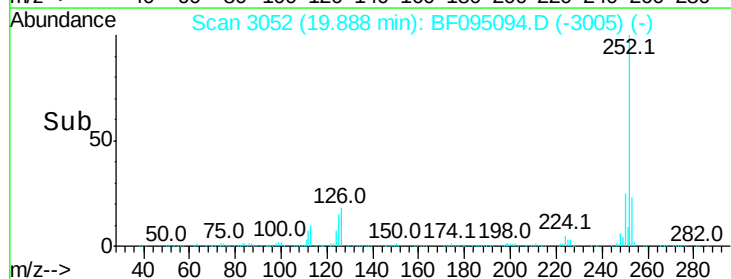
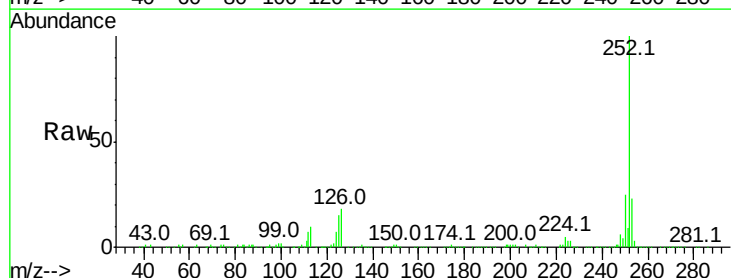
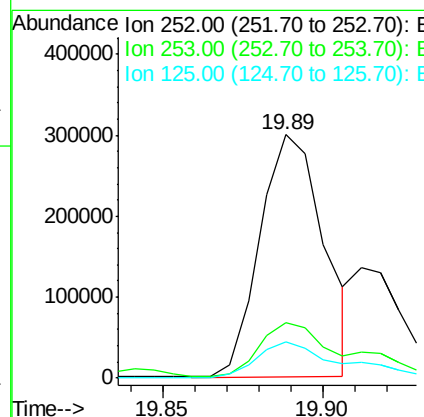
Manual Integrations
APPROVED

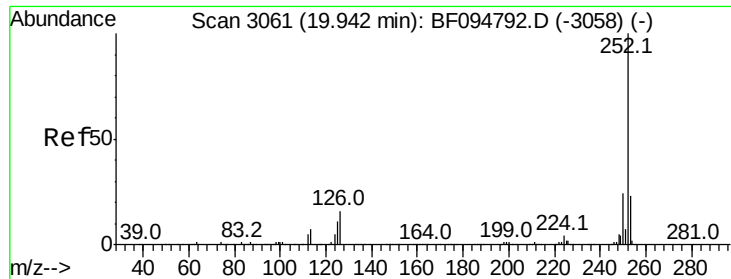
mohammad
5/12/2017 3:36:13 PM



#87
Benzo(b)fluoranthene
Concen: 36.84 ng m
RT: 19.89 min Scan# 3052
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	14.8	9.8	14.8#





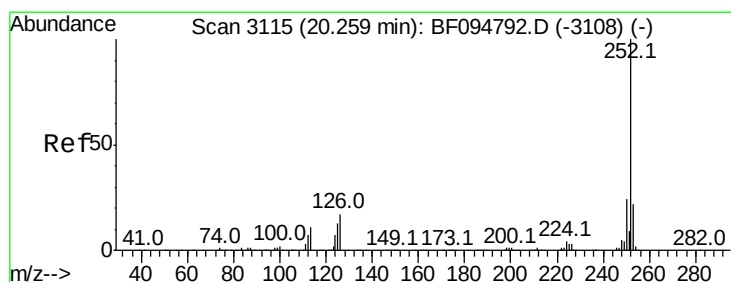
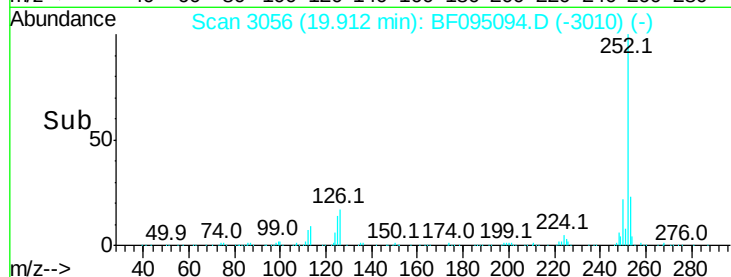
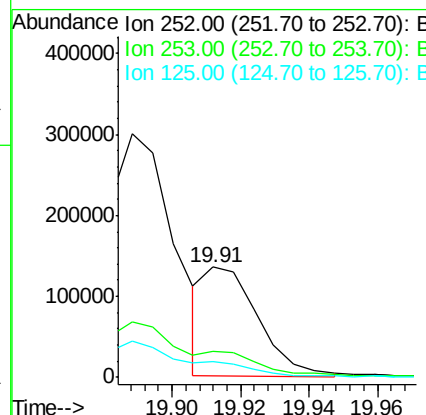
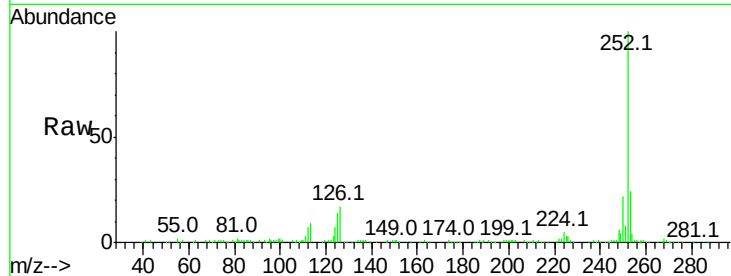
#88
Benzo(k)fluoranthene
Concen: 13.24 ng m
RT: 19.91 min Scan# 3056
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampled :
PE-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	14.4	13.1	19.7

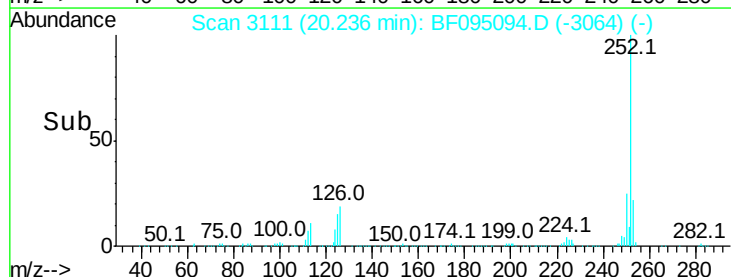
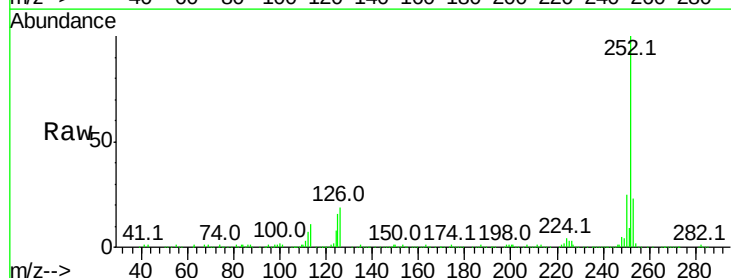
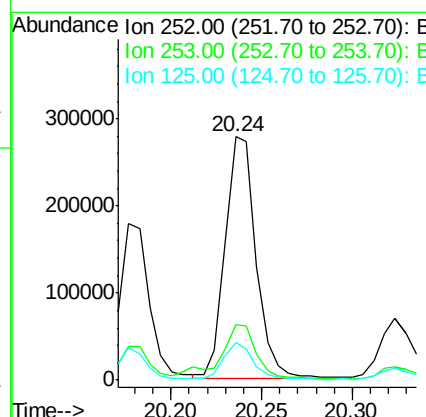
Manual Integrations
APPROVED

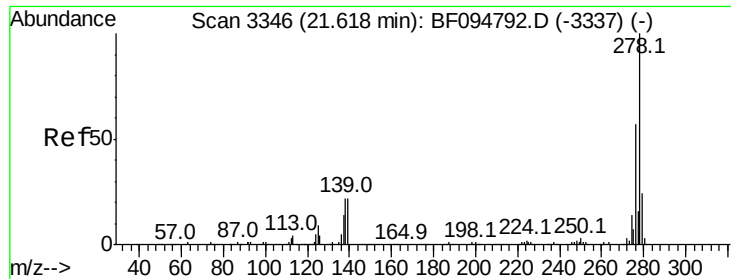
mohammad
5/12/2017 3:36:13 PM



#89
Benzo(a)pyrene
Concen: 31.63 ng
RT: 20.24 min Scan# 3111
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.6	11.0	16.4





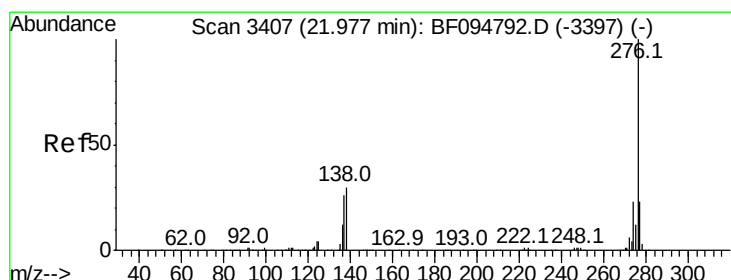
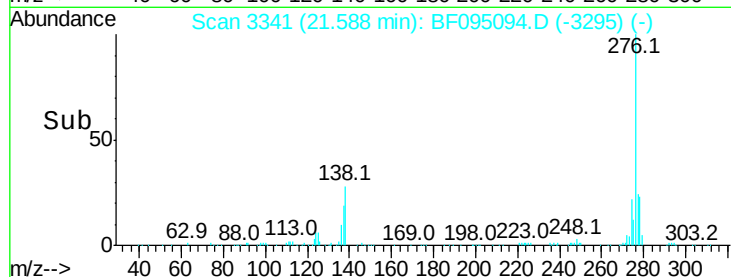
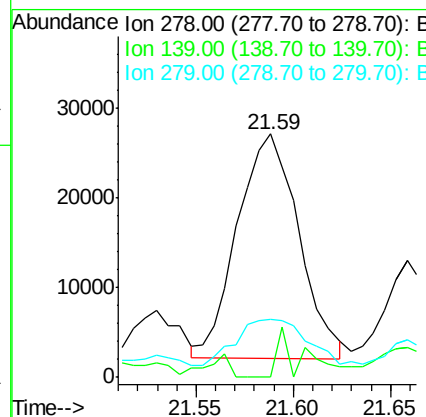
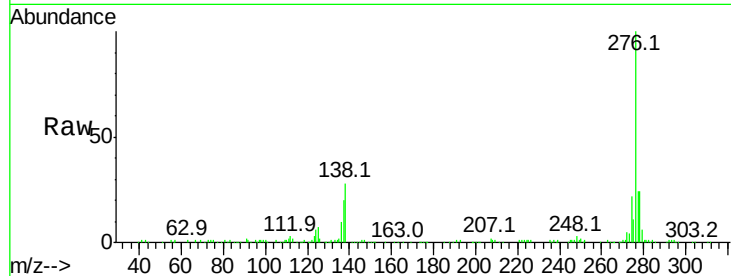
#90
Dibenzo(a,h)anthracene
Concen: 6.29 ng/mL
RT: 21.59 min Scan# 3341
Delta R.T. -0.03 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Instrument :
BNA_F
ClientSampleId :
PE-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8
279	23.6	19.3	28.9

Manual Integrations
APPROVED

mohammad
5/12/2017 3:36:13 PM



#91
Benzo(g,h,i)perylene
Concen: 24.11 ng/mL
RT: 21.96 min Scan# 3404
Delta R.T. -0.02 min
Lab File: BF095094.D
Acq: 11 May 2017 22:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	28.8	25.4	38.0

