

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061617\
 Data File : BF095997.D
 Acq On : 17 Jun 2017 14:42
 Operator : SJ/MA
 Sample : I3683-02 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Manual Integrations
 APPROVED

mohammad
 6/19/2017 3:48:35 PM

Quant Time: Jun 19 02:13:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 17:12:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.32	152	74950	20.00	ng	0.00
21) Naphthalene-d8	9.35	136	304060	20.00	ng	0.00
38) Acenaphthene-d10	12.17	164	121891	20.00	ng	-0.01
63) Phenanthrene-d10	14.57	188	178787	20.00	ng	0.00
75) Chrysene-d12	18.30	240	148025	20.00	ng	0.00
86) Perylene-d12	19.96	264	130209	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	22707m	4.83	ng	0.12
7) Phenol-d6	6.99	99	31890	5.66	ng	0.08
23) Nitrobenzene-d5	8.29	82	20277	4.14	ng	0.04
41) 2,4,6-Tribromophenol	13.49	330	6097	5.65	ng	0.01
44) 2-Fluorobiphenyl	11.13	172	56590	6.46	ng	-0.01
78) Terphenyl-d14	16.94	244	35256	5.91	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.39	128	1077660	70.62	ng	100
37) 2-Methylnaphthalene	10.51	142	257687	24.99	ng	97
45) 1,1'-Biphenyl	11.28	154	84162	8.38	ng	97
48) Acenaphthylene	11.95	152	63007	4.69	ng	95
51) Acenaphthene	12.22	154	249065	32.13	ng	98
54) Dibenzofuran	12.51	168	457948	41.97	ng	98
57) Fluorene	13.07	166	488938	51.50	ng	99
70) Phenanthrene	14.63	178	2393611	232.03	ng	99
71) Anthracene	14.70	178	816247	75.79	ng	98
72) Carbazole	14.99	167	367641	35.03	ng	97
74) Fluoranthene	16.41	202	1877814	183.91	ng	99
77) Pylene	16.71	202	1458255	132.03	ng	99
80) Benzo(a)anthracene	18.29	228	825396	95.91	ng	98
82) Chrysene	18.33	228	677050m	78.72	ng	
85) Indeno(1,2,3-cd)pyrene	21.12	276	233780	31.77	ng	96
87) Benzo(b)fluoranthene	19.57	252	746602m	91.57	ng	
88) Benzo(k)fluoranthene	19.59	252	228204m	29.28	ng	
89) Benzo(a)pyrene	19.91	252	510404	68.11	ng	96
90) Dibenzo(a,h)anthracene	21.12	278	79513m	12.51	ng	
91) Benzo(a,h,i)perylene	21.45	276	206336	31.84	ng	97

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

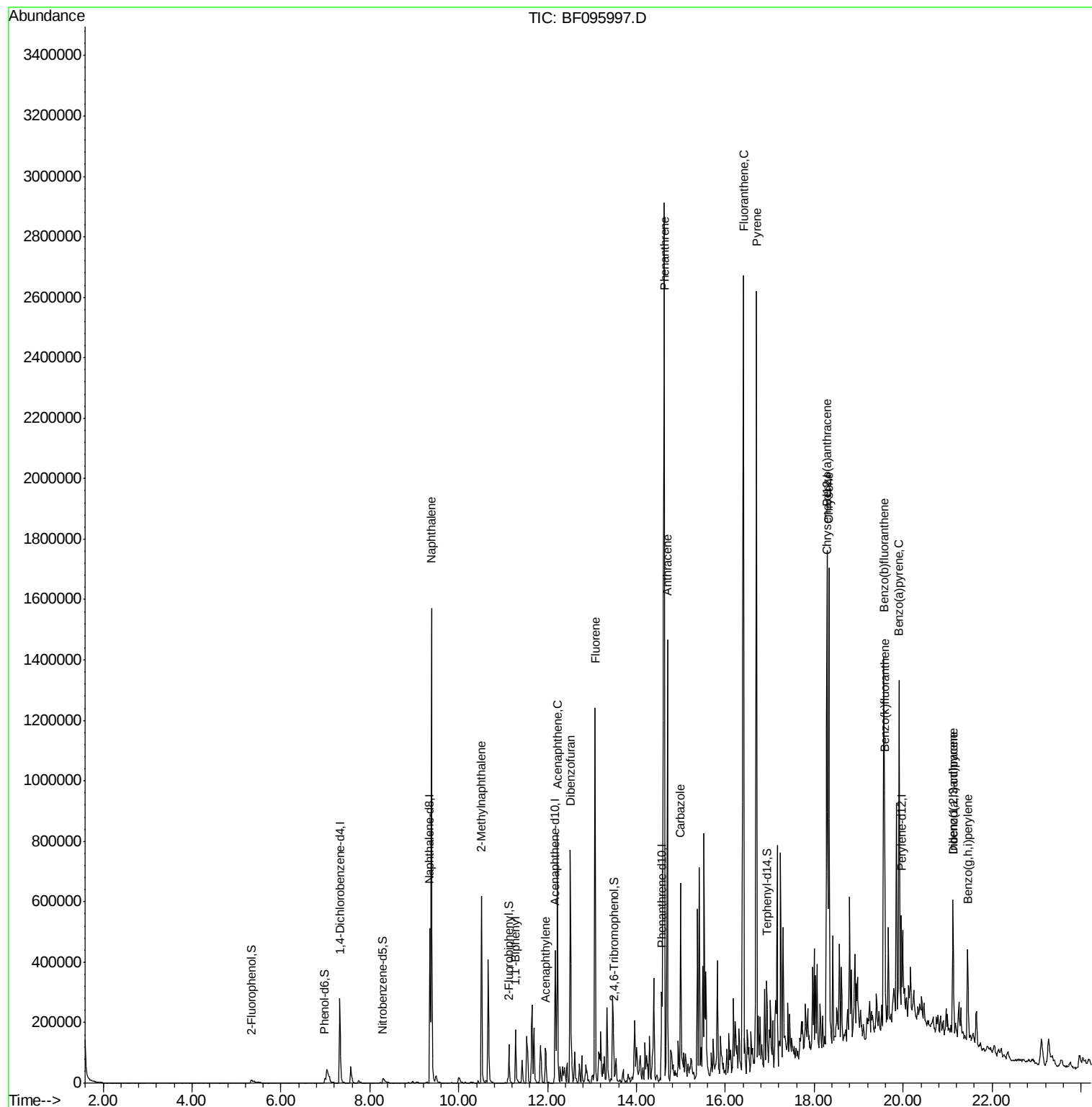
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061617\
Data File : BF095997.D
Acq On : 17 Jun 2017 14:42
Operator : SJ/MA
Sample : I3683-02 10X
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CC-5A

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM

Quant Time: Jun 19 02:13:00 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 16 17:12:03 2017
Response via : Initial Calibration





#1

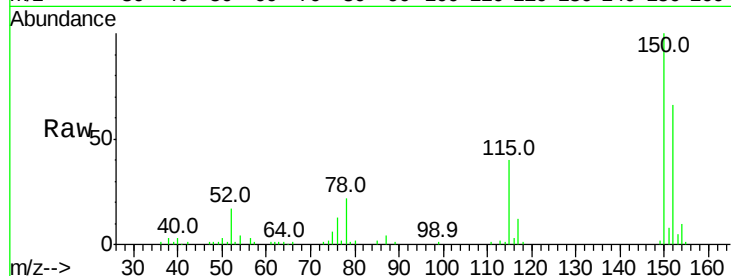
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.32 min Scan# 975
Delta R.T. 0.00 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampled :
CC-5A

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.5	126.2	189.2
115	60.1	52.2	78.2

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM

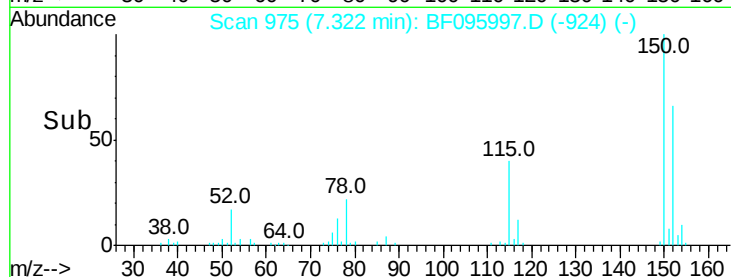
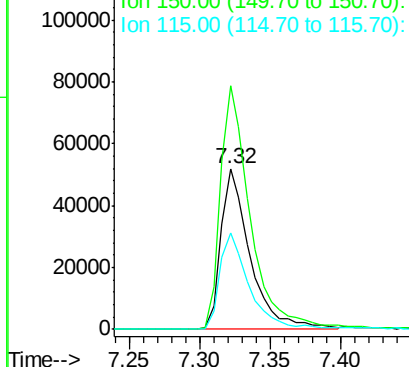


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

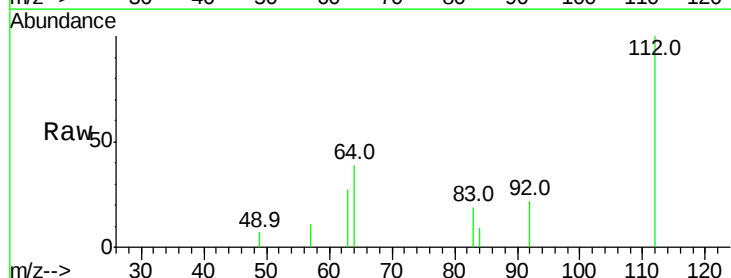
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 4.83 ng m
RT: 5.33 min Scan# 637
Delta R.T. 0.12 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	38.7	46.0	69.0#
63	26.8	23.4	35.0

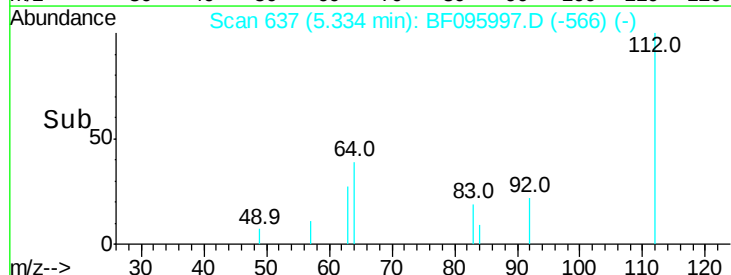
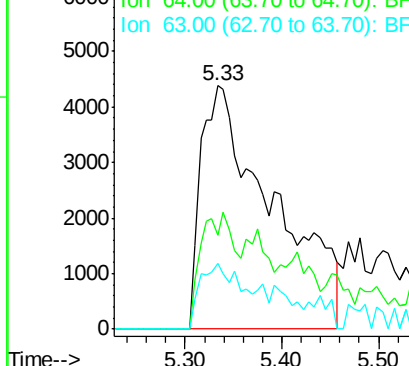


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 5.66 ng

RT: 6.99 min Scan# 919

Delta R.T. 0.08 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Instrument :

BNA_F

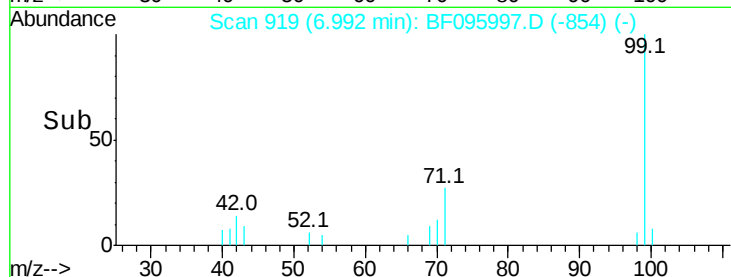
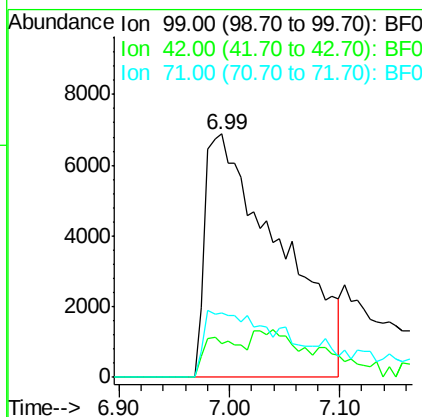
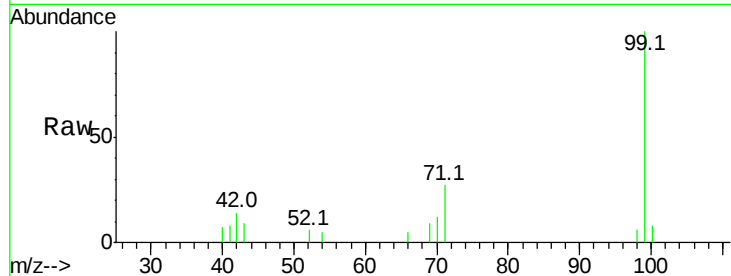
ClientSampleId :

CC-5A

Tot Ion:	99	Resp:	31890
Ion Ratio	Lower	Upper	
99	100		
42	13.7	13.5	20.3
71	26.5	24.5	36.7

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM



#21

Naphthalene-d8

Concen: 20.00 ng

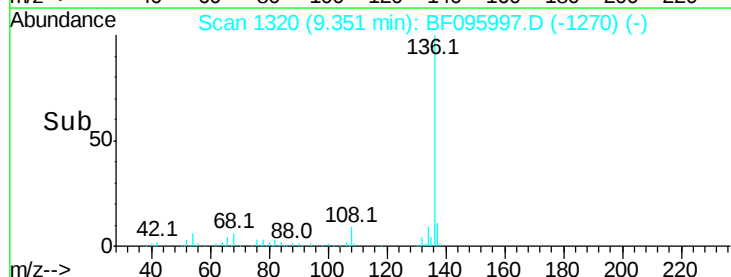
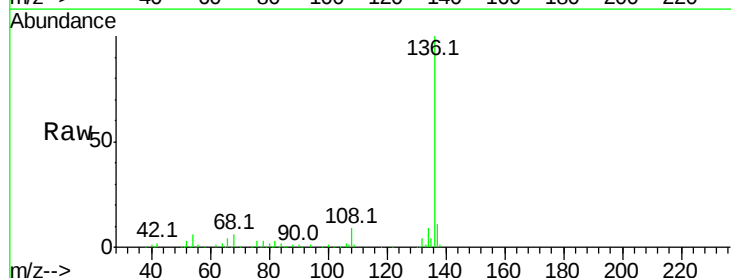
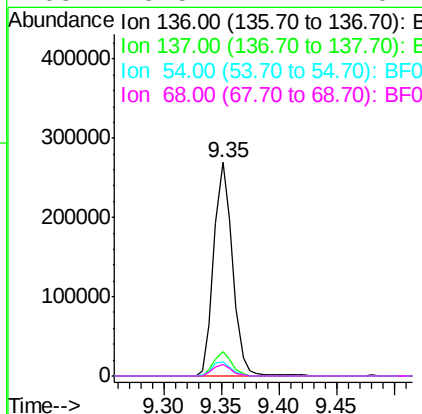
RT: 9.35 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Tgt Ion:	136	Resp:	304060
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.5	12.7
54	6.5	4.9	7.3
68	5.5	4.1	6.1





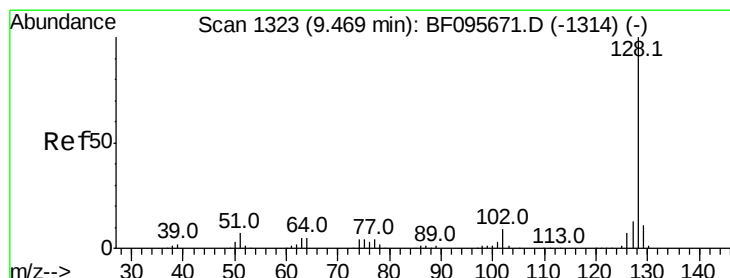
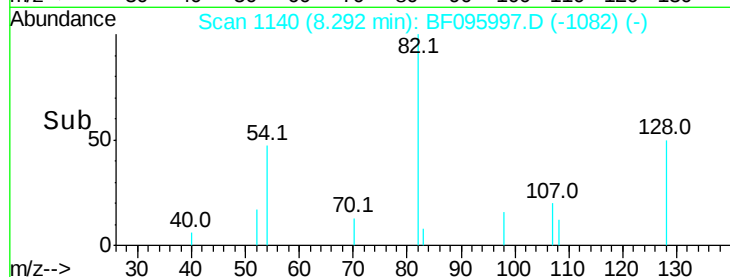
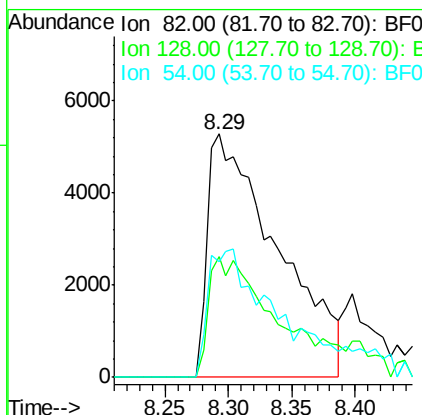
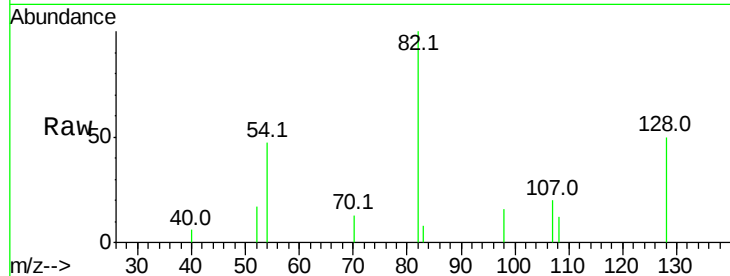
#23
 Nitrobenzene-d5
 Concen: 4.14 ng
 RT: 8.29 min Scan# 1140
 Delta R.T. 0.04 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.6	34.0	51.0
54	47.4	42.2	63.2

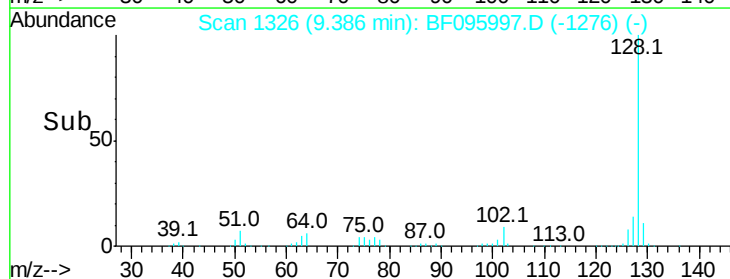
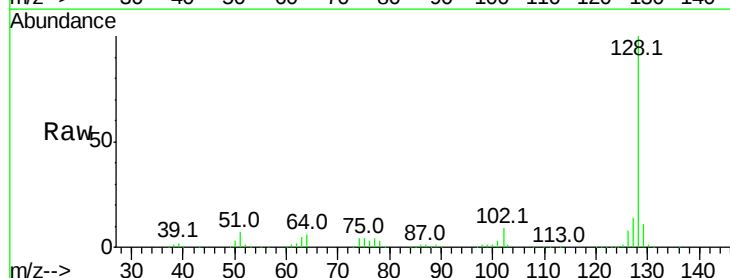
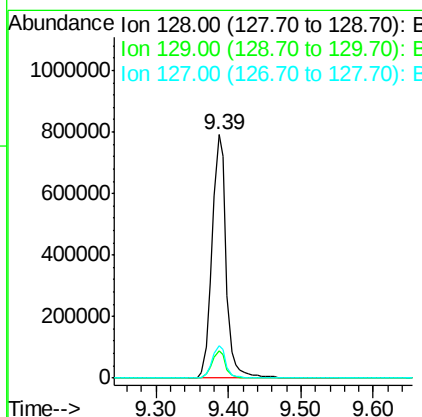
Manual Integrations
 APPROVED

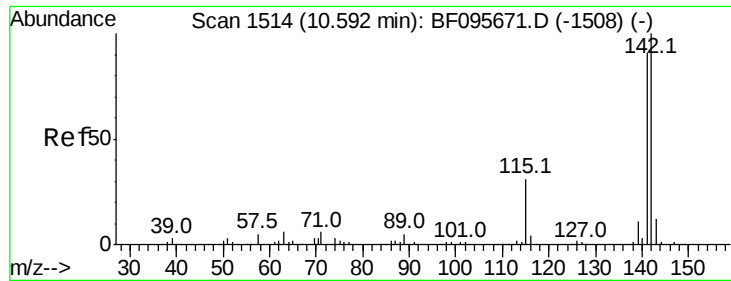
mohammad
 6/19/2017 3:48:35 PM



#31
 Naphthalene
 Concen: 70.62 ng
 RT: 9.39 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.5	10.8	16.2





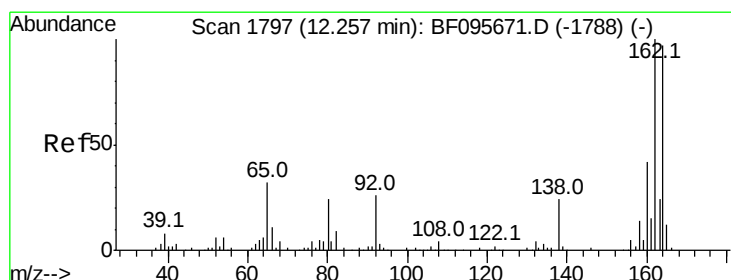
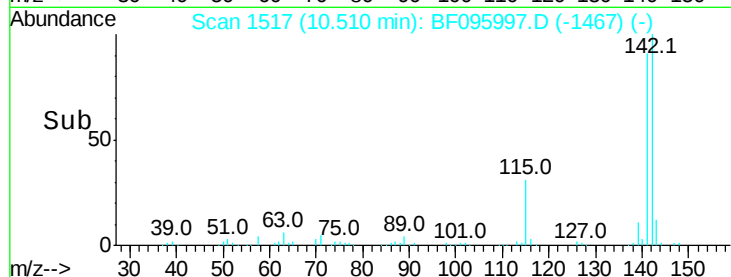
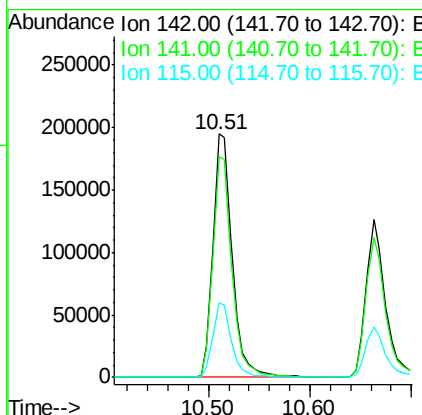
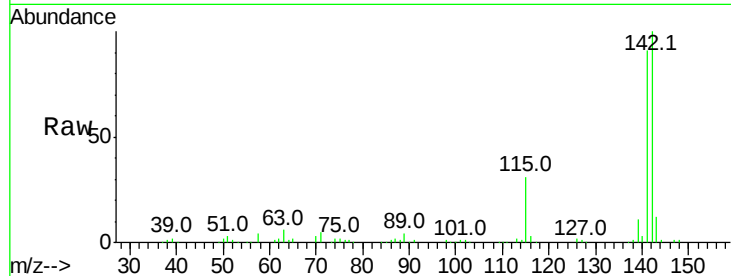
#37
2-Methylnaphthalene
Concen: 24.99 ng
RT: 10.51 min Scan# 1517
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampled :
CC-5A

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.3	106.9
115	30.6	27.1	40.7

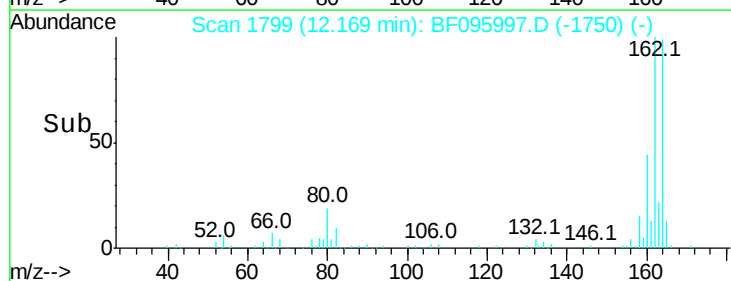
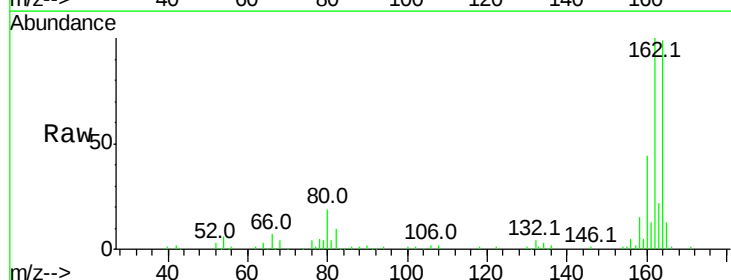
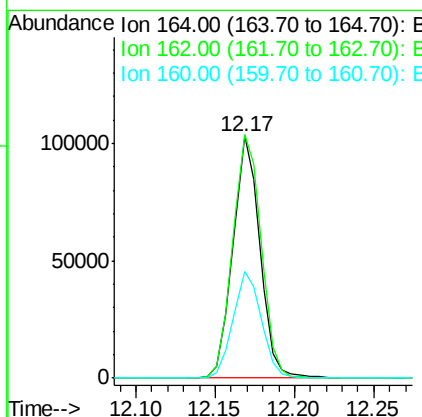
Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.17 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	82.6	123.8
160	44.0	36.2	54.2





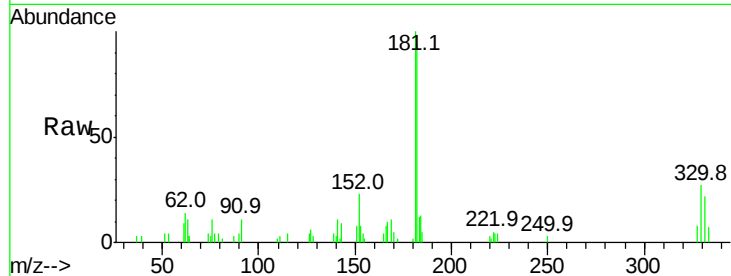
#41
 2,4,6-Tribromophenol
 Concen: 5.65 ng
 RT: 13.49 min Scan# 2024
 Delta R.T. 0.01 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

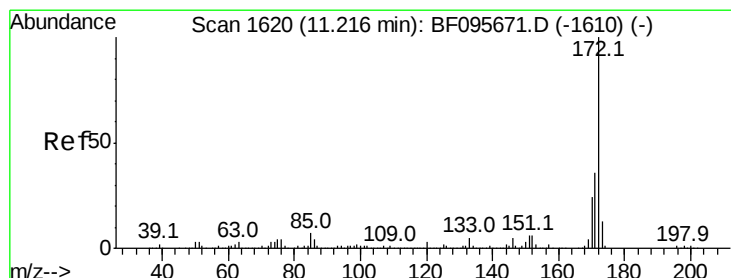
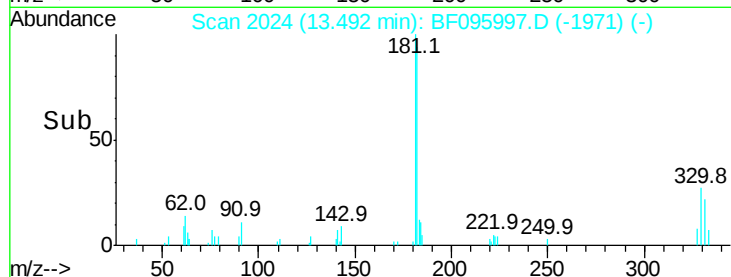
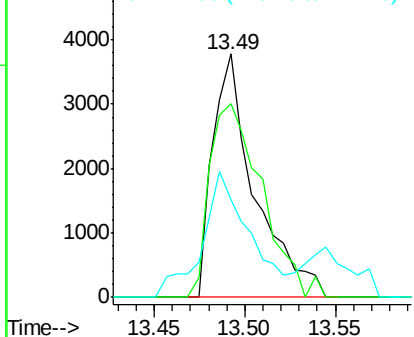
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.6	115.0
141	57.4	31.4	47.2#

Manual Integrations
 APPROVED

mohammad
 6/19/2017 3:48:35 PM



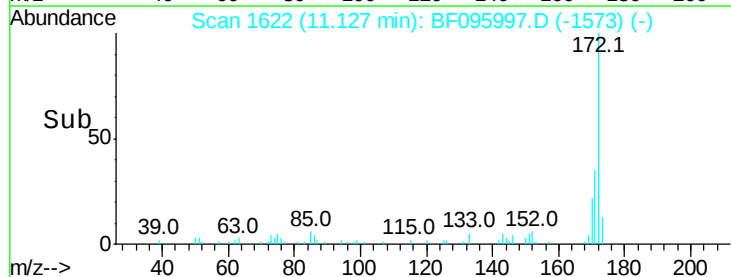
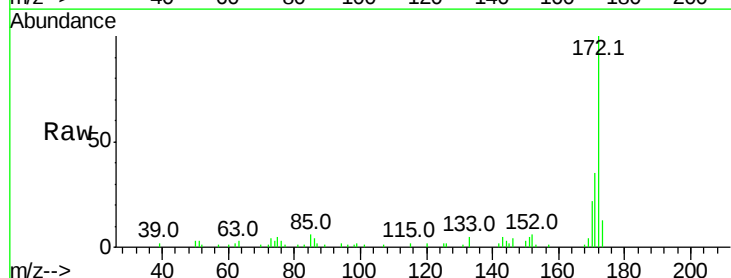
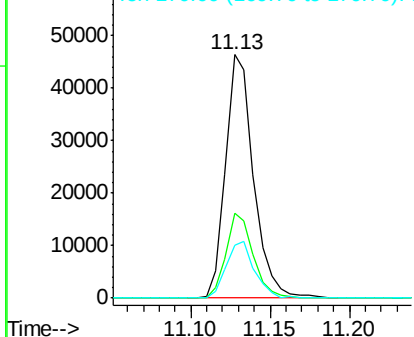
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

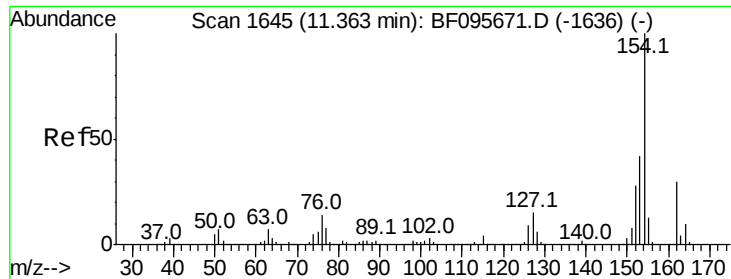


#44
 2-Fluorobiphenyl
 Concen: 6.46 ng
 RT: 11.13 min Scan# 1622
 Delta R.T. -0.01 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.6	44.4
170	21.5	19.8	29.8

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





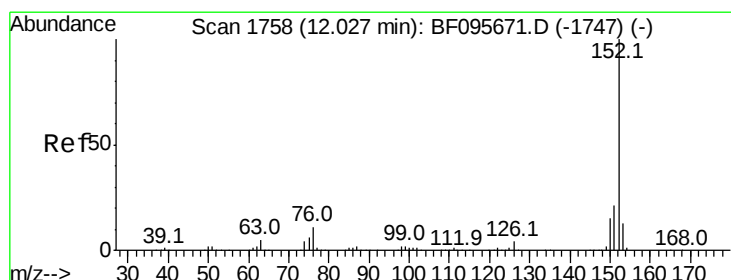
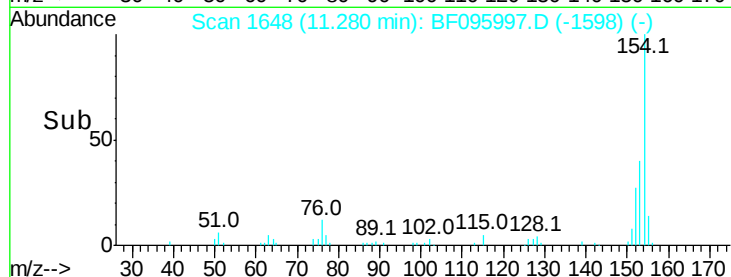
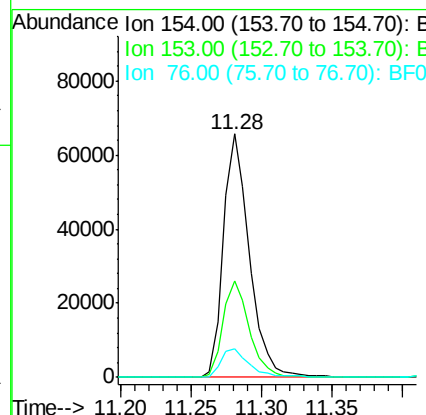
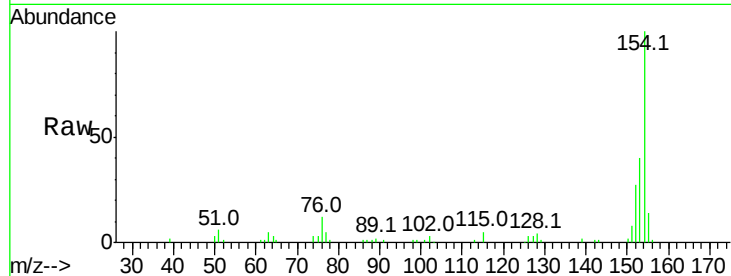
#45
 1,1'-Biphenyl
 Concen: 8.38 ng
 RT: 11.28 min Scan# 1648
 Delta R.T. -0.01 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Tot Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.2	61.2
76	11.9	0.0	29.9

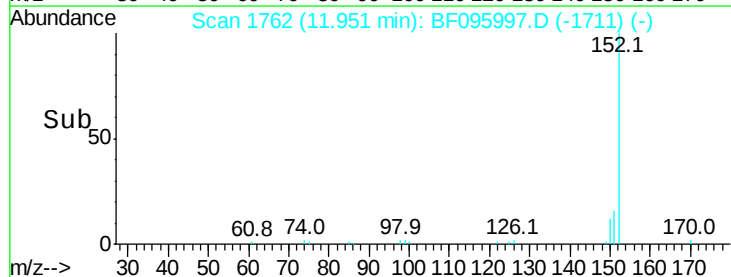
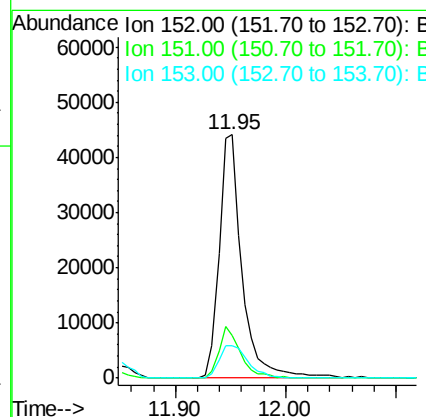
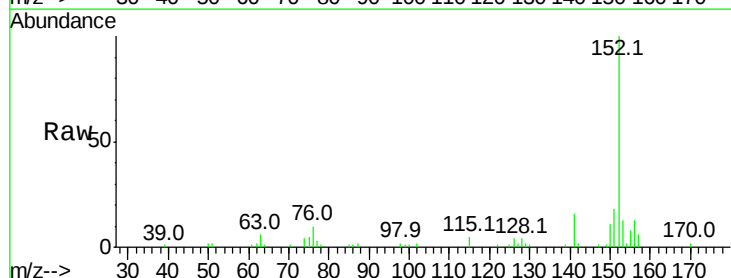
Manual Integrations
 APPROVED

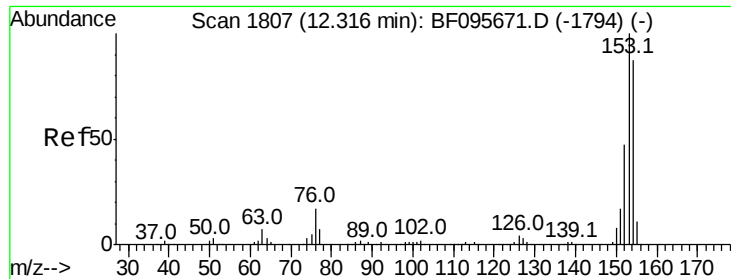
mohammad
 6/19/2017 3:48:35 PM



#48
 Acenaphthylene
 Concen: 4.69 ng
 RT: 11.95 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	17.7	16.8	25.2
153	13.1	10.8	16.2





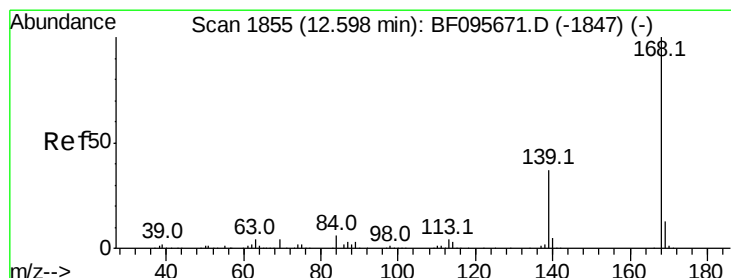
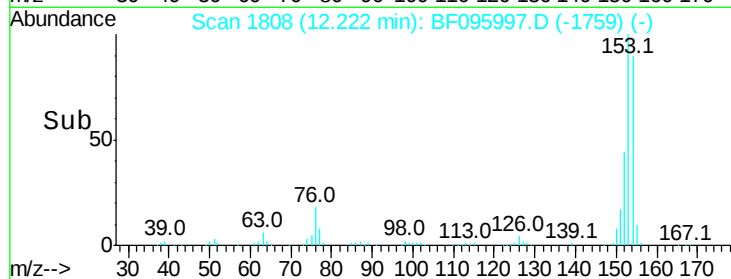
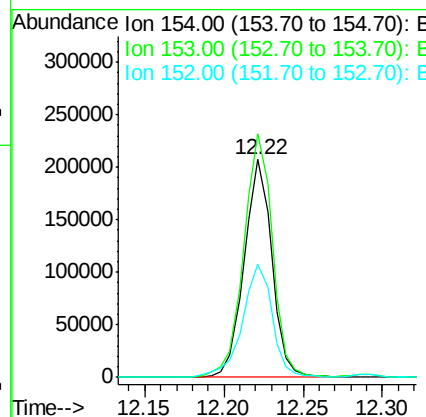
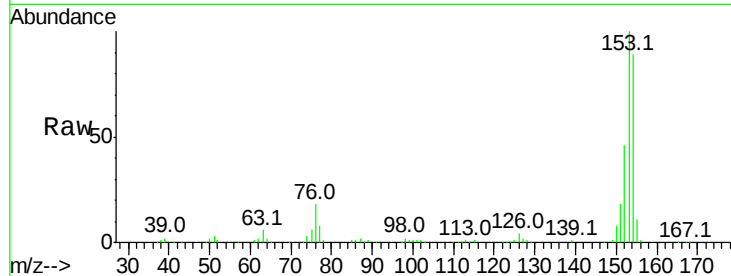
#51
Acenaphthene
Concen: 32.13 ng
RT: 12.22 min Scan# 1808
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.5	135.7
152	51.9	43.6	65.4

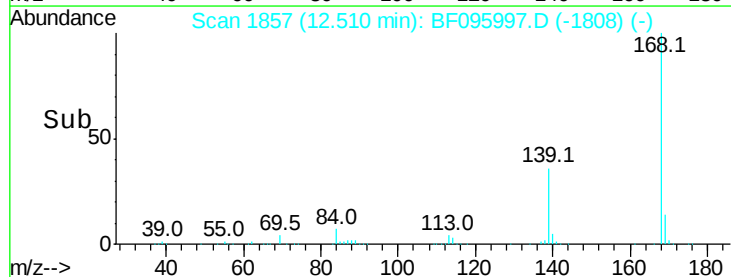
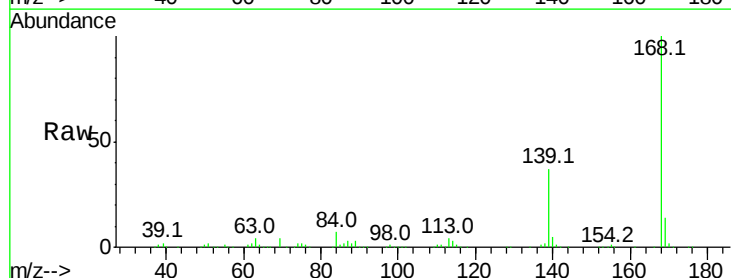
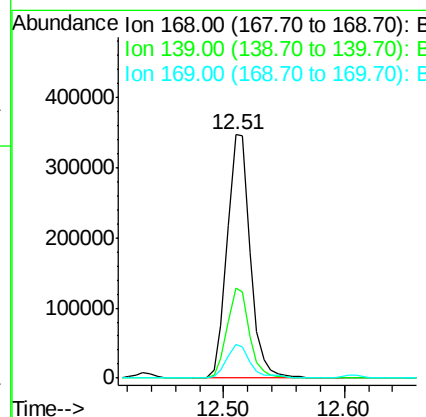
Manual Integrations
APPROVED

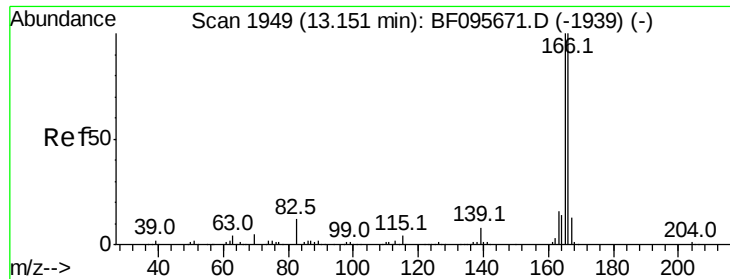
mohammad
6/19/2017 3:48:35 PM



#54
Dibenzofuran
Concen: 41.97 ng
RT: 12.51 min Scan# 1857
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.8	30.6	45.8
169	13.7	10.8	16.2





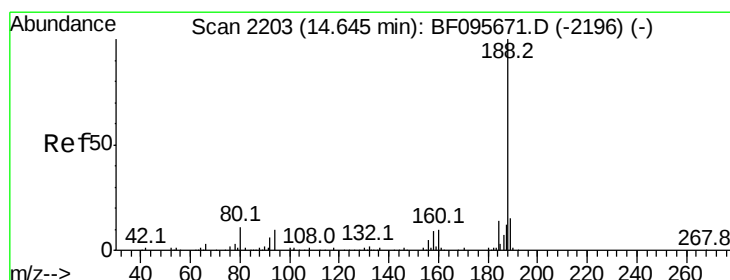
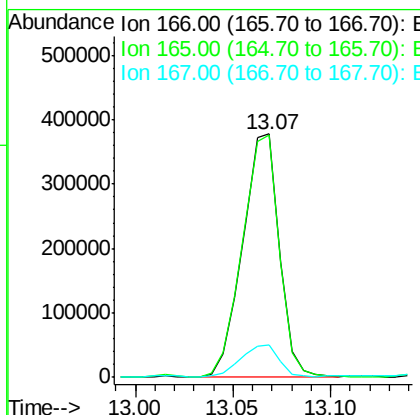
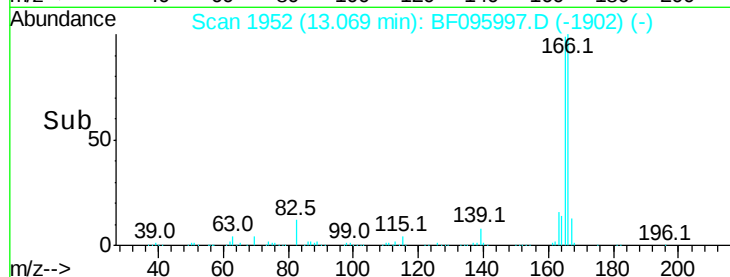
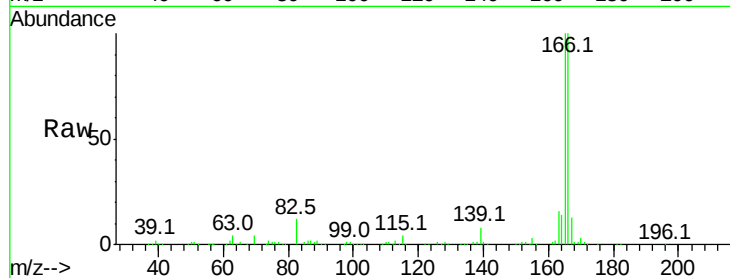
#57
Fluorene
Concen: 51.50 ng
RT: 13.07 min Scan# 1952
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	78.8	118.2
167	13.3	10.6	16.0

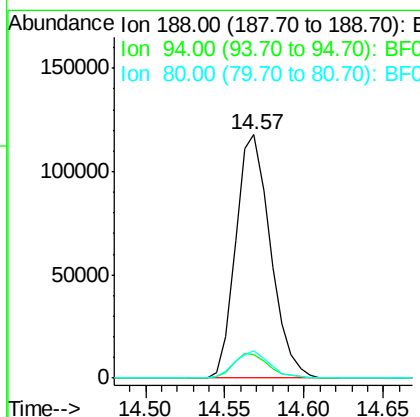
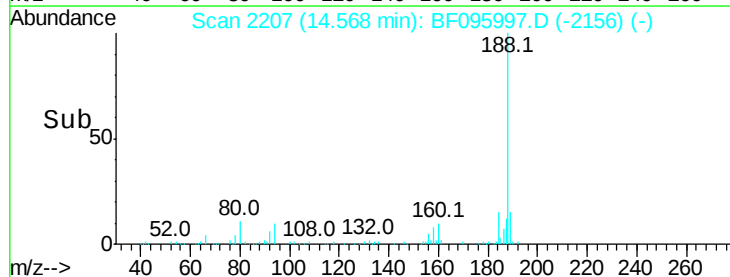
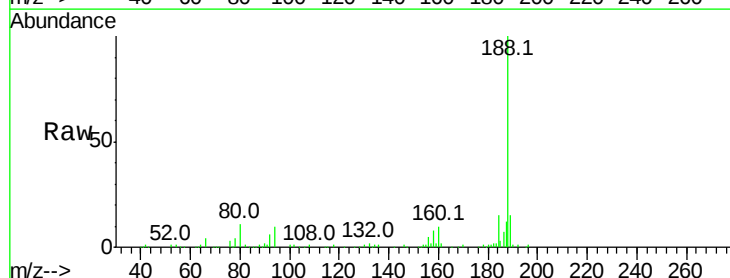
Manual Integrations
APPROVED

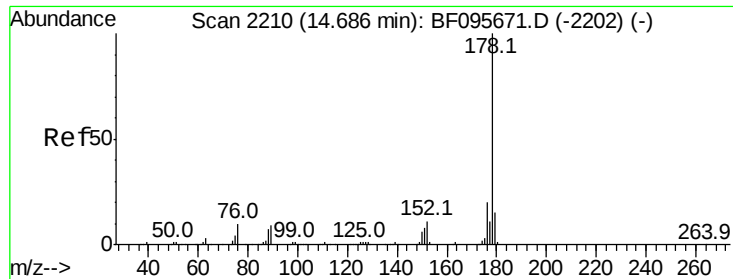
mohammad
6/19/2017 3:48:35 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.57 min Scan# 2207
Delta R.T. 0.00 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	9.4	14.2
80	11.0	10.2	15.2





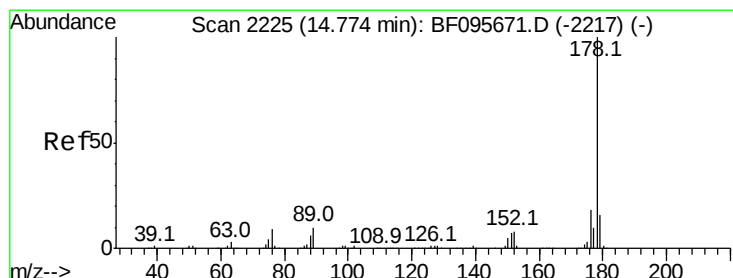
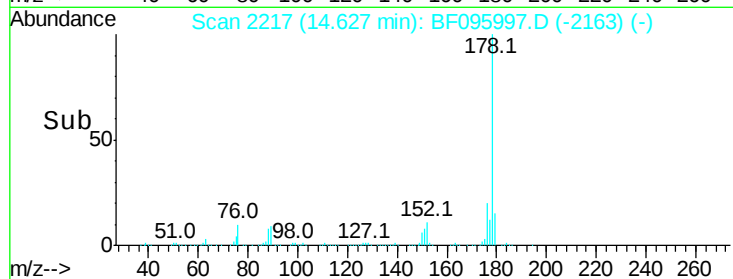
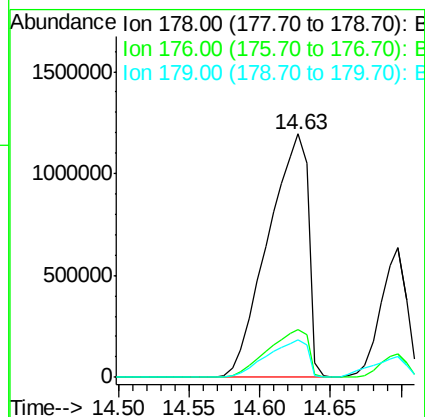
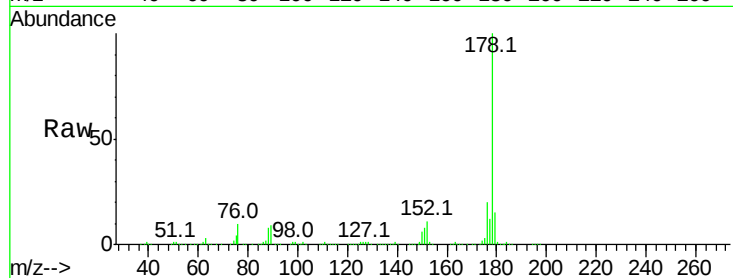
#70
Phenanthrene
Concen: 232.03 ng
RT: 14.63 min Scan# 2217
Delta R.T. 0.02 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.2	24.4
179	15.4	12.6	19.0

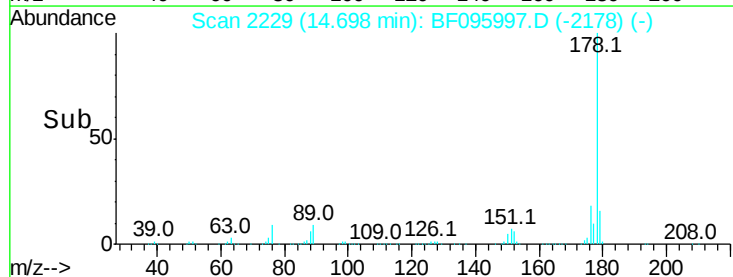
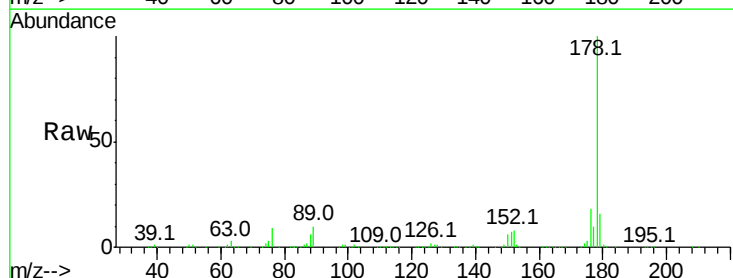
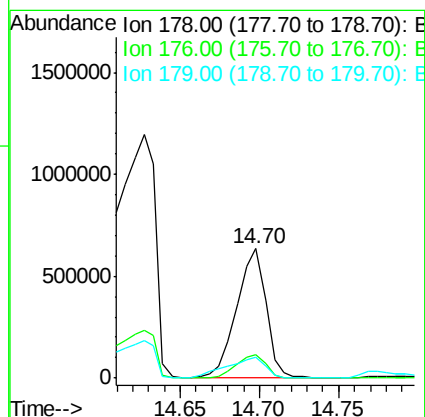
Manual Integrations
APPROVED

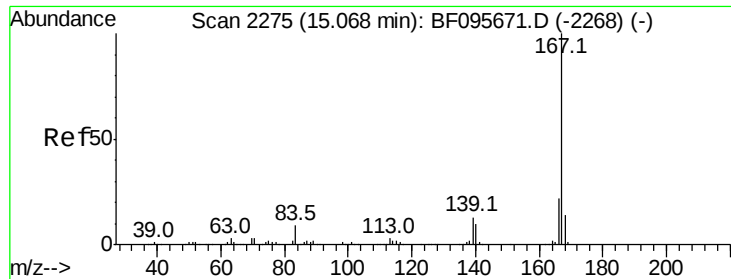
mohammad
6/19/2017 3:48:35 PM



#71
Anthracene
Concen: 75.79 ng
RT: 14.70 min Scan# 2229
Delta R.T. 0.00 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

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





#72

Carbazole

Concen: 35.03 ng

RT: 14.99 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Instrument :

BNA_F

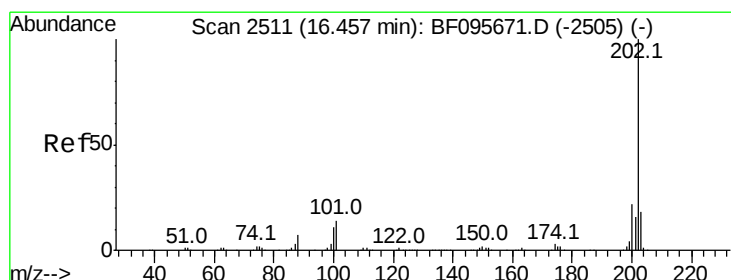
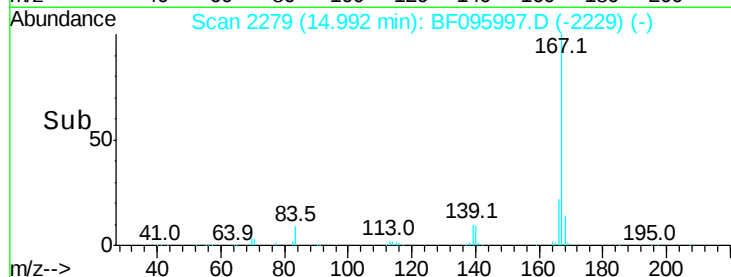
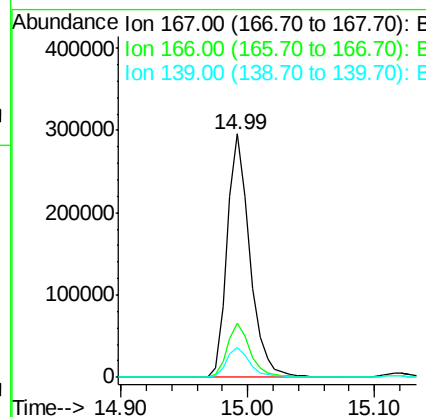
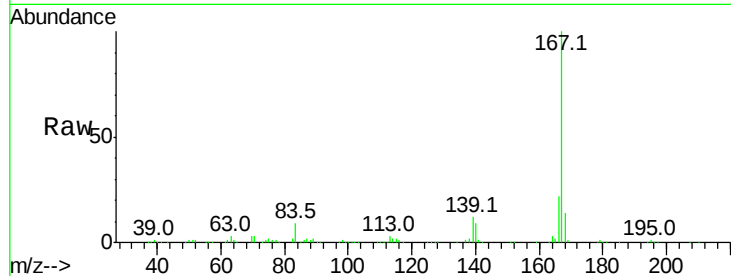
ClientSampleId :

CC-5A

Tot Ion:	167	Resp:	367641
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.1	27.1
139	12.3	11.7	17.5

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM



#74

Fluoranthene

Concen: 183.91 ng

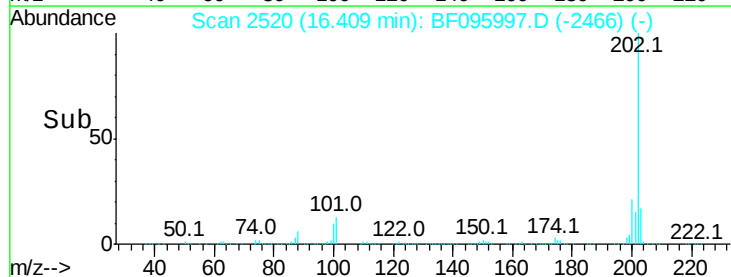
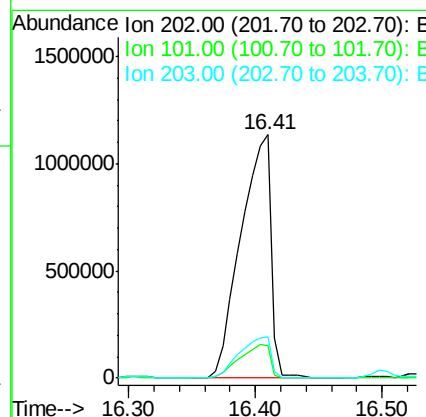
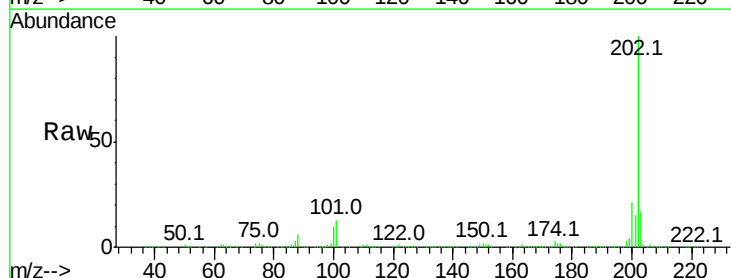
RT: 16.41 min Scan# 2520

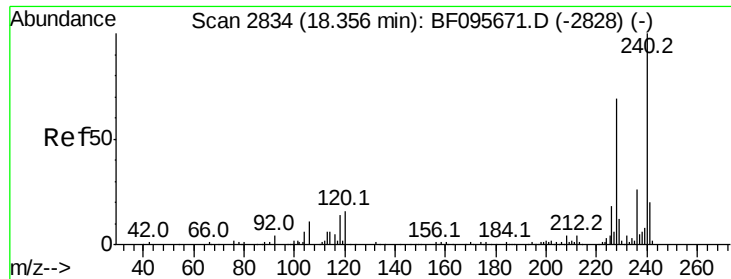
Delta R.T. 0.02 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Tgt Ion:	202	Resp:	1877814
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	33.2
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.30 min Scan# 2841

Delta R.T. 0.00 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Instrument :

BNA_F

ClientSampleId :

CC-5A

Tot Ion:240 Resp: 148025

Ion Ratio Lower Upper

240 100

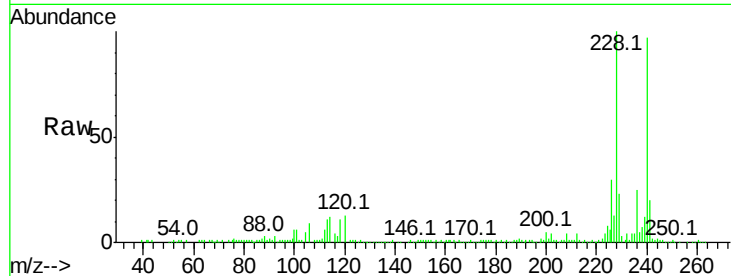
120 13.7 5.8 8.8#

236 25.3 20.5 30.7

Manual Integrations
APPROVED

mohammad

6/19/2017 3:48:35 PM

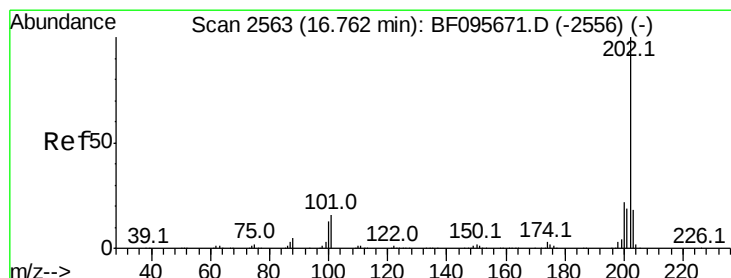
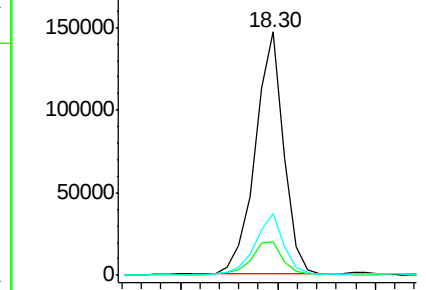
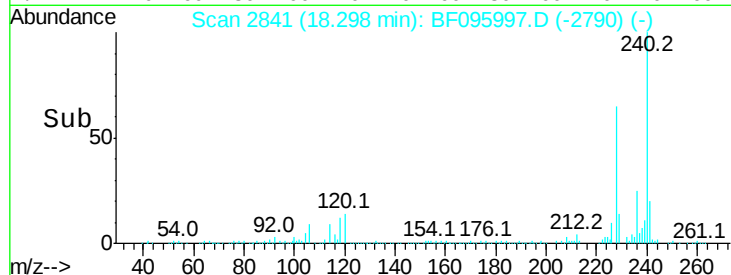


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

18.30



#77

Pyrene

Concen: 132.03 ng

RT: 16.71 min Scan# 2571

Delta R.T. 0.01 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

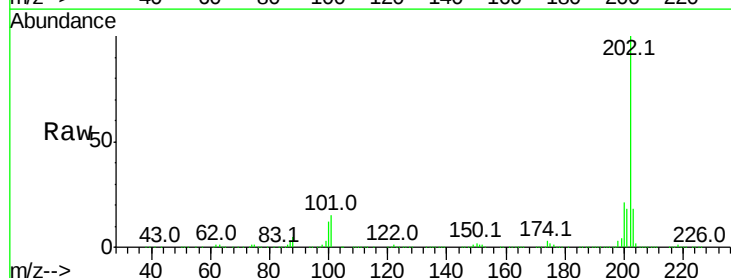
Tgt Ion:202 Resp: 1458255

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

203 18.0 14.4 21.6

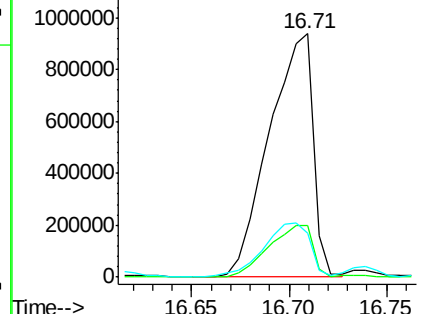
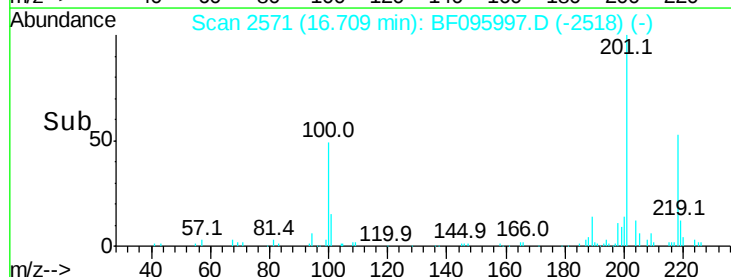


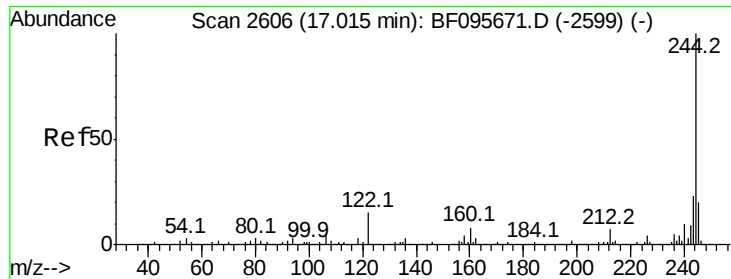
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

16.71





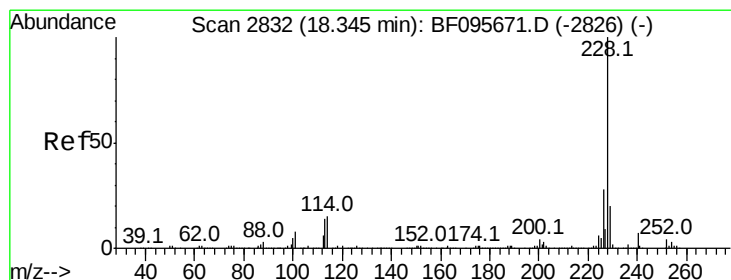
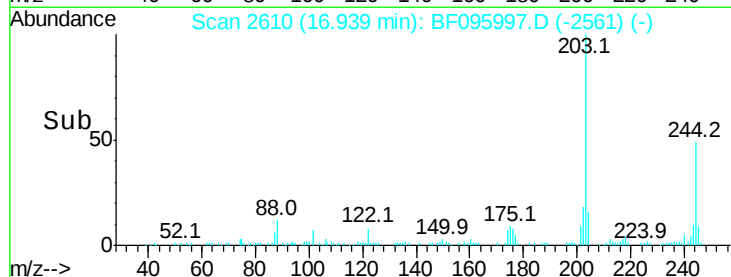
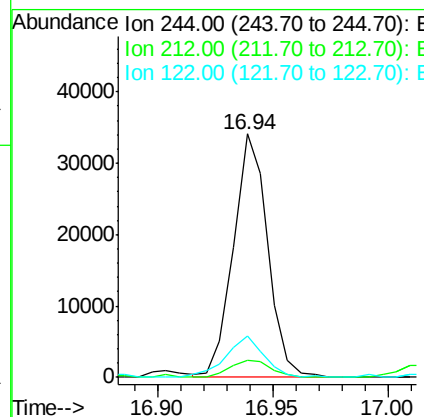
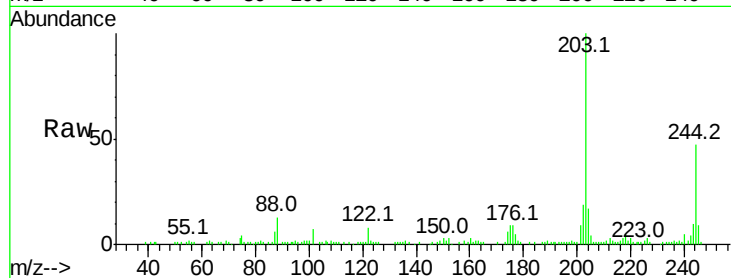
#78
 Terphenyl-d14
 Concen: 5.91 ng
 RT: 16.94 min Scan# 2610
 Delta R.T. -0.01 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	17.2	10.3	15.5

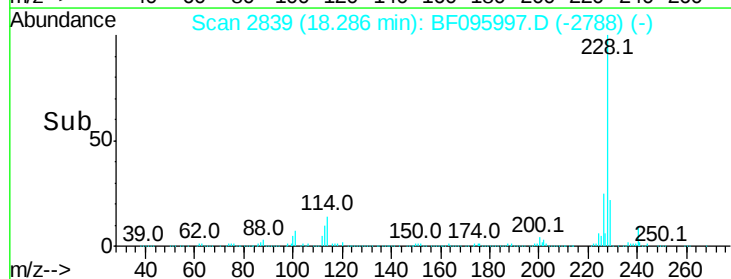
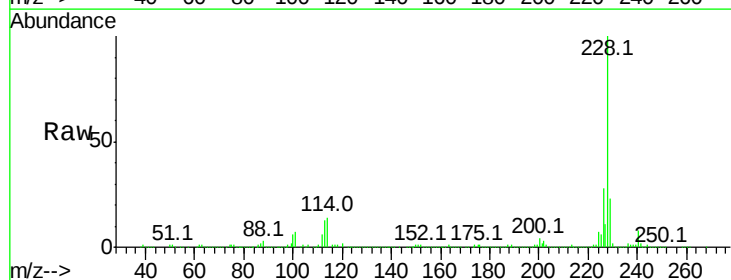
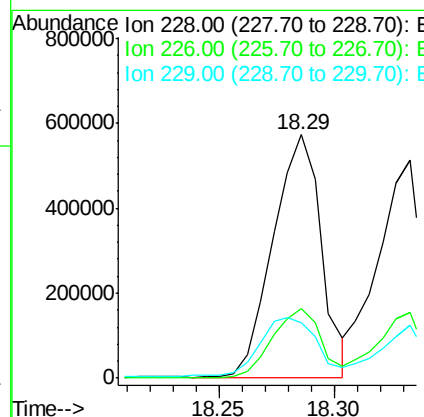
Manual Integrations
 APPROVED

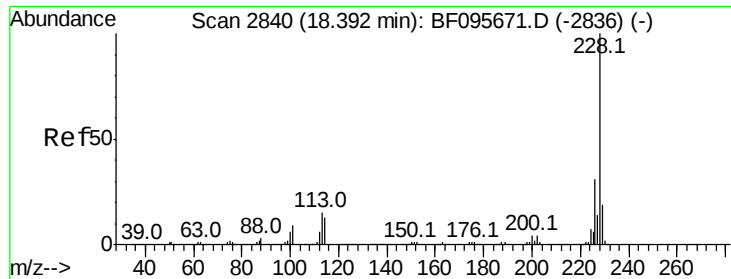
mohammad
 6/19/2017 3:48:35 PM



#80
 Benzo(a)anthracene
 Concen: 95.91 ng
 RT: 18.29 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: BF095997.D
 Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	22.8	16.3	24.5





#82

Chrysene

Concen: 78.72 ng/mL

RT: 18.33 min Scan# 2847

Delta R.T. 0.00 min

Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Instrument :

BNA_F

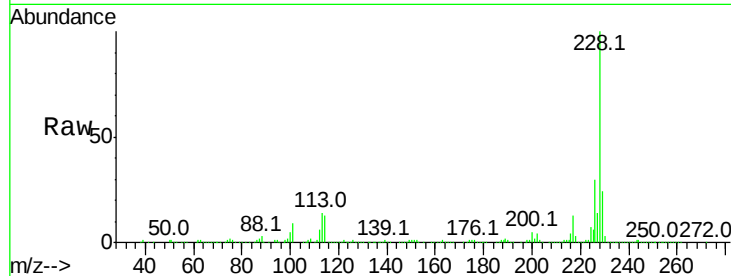
ClientSampled :

CC-5A

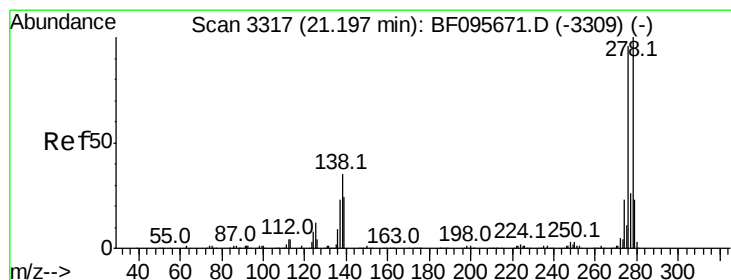
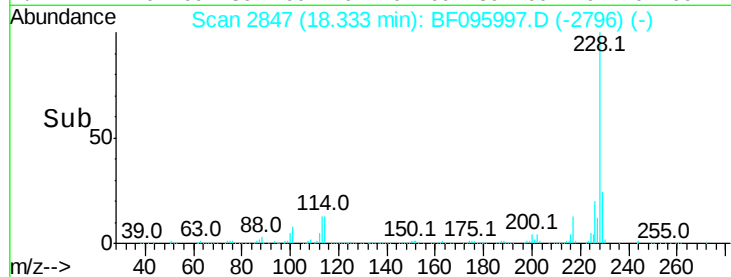
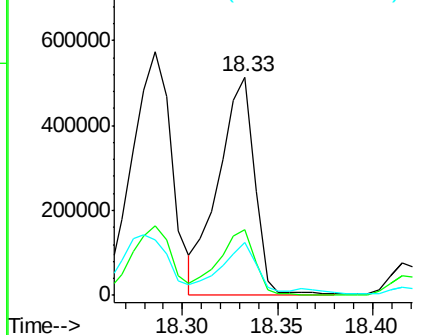
Tot Ion:	228	Resp:	677050
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.9	37.3
229	24.1	15.8	23.6

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 31.77 ng/mL

RT: 21.12 min Scan# 3321

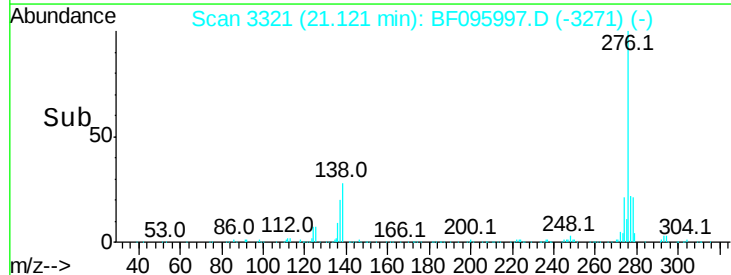
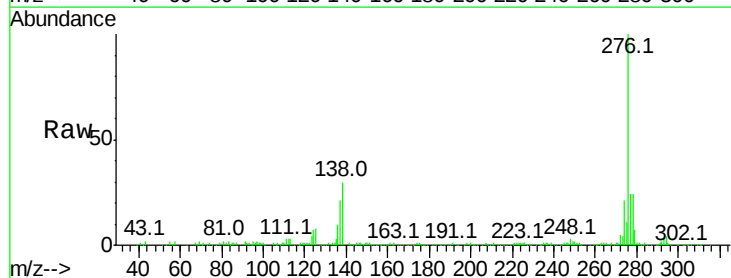
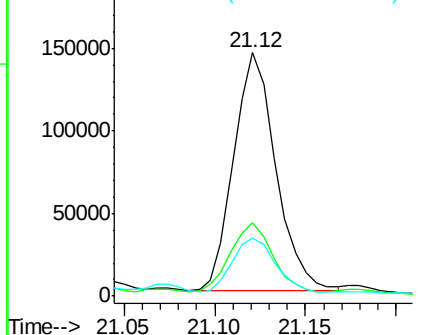
Delta R.T. -0.01 min

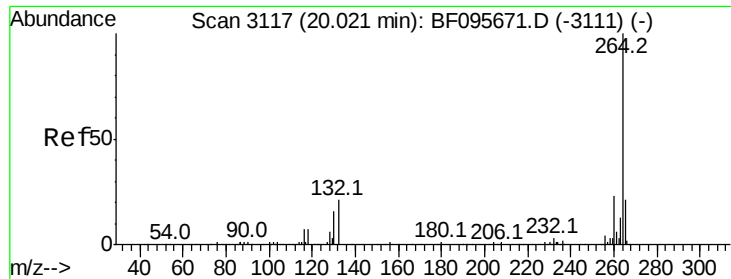
Lab File: BF095997.D

Acq: 17 Jun 2017 14:42

Tgt Ion:	276	Resp:	233780
Ion Ratio	Lower	Upper	
276	100		
138	31.7	27.8	41.6
277	23.5	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





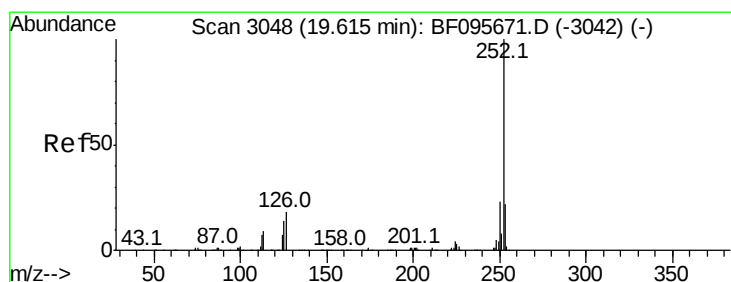
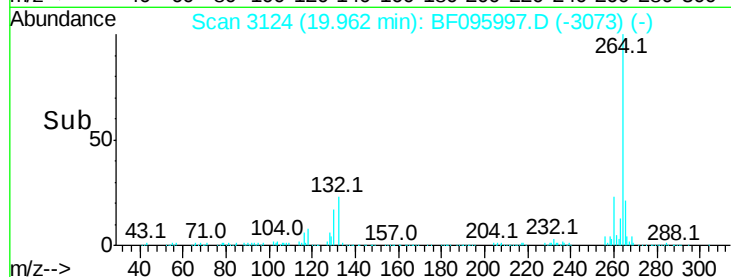
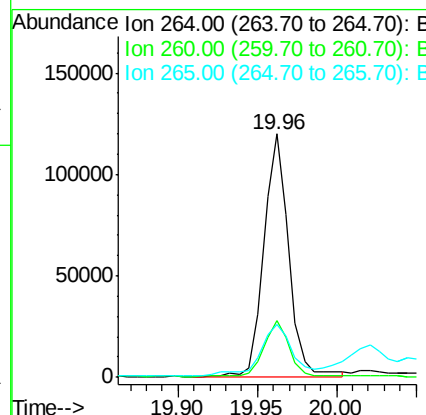
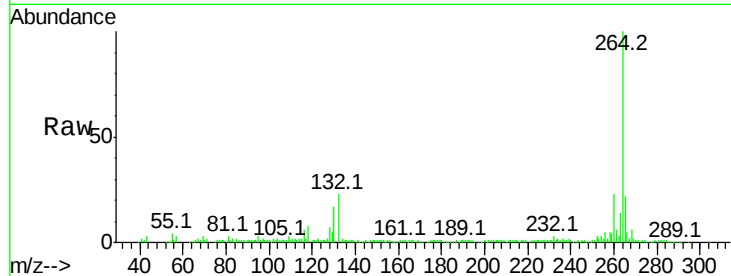
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.96 min Scan# 3124
Delta R.T. 0.00 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion:	264	Resp:	130209
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.5	29.3
265	21.9	17.2	25.8

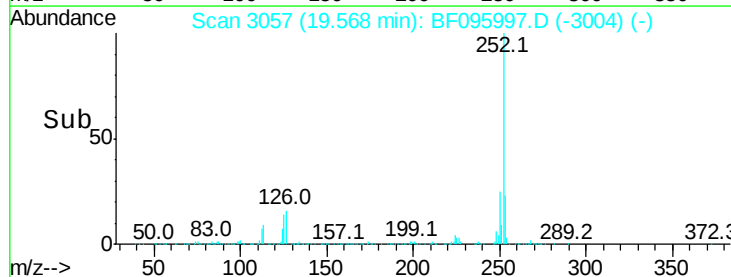
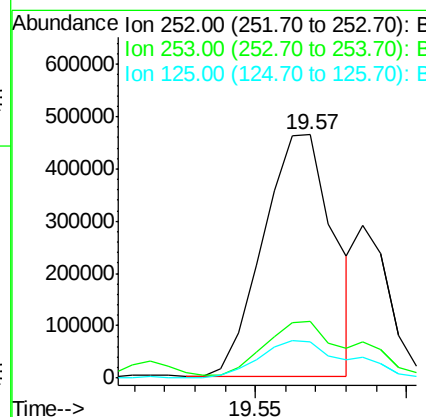
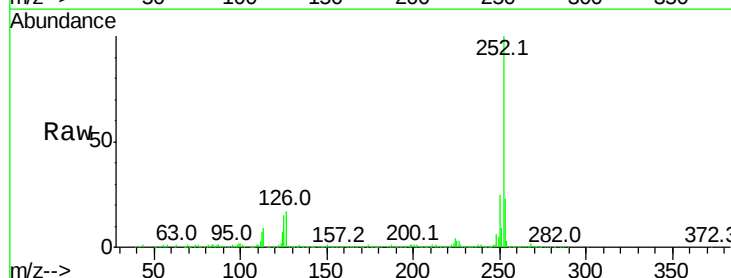
Manual Integrations
APPROVED

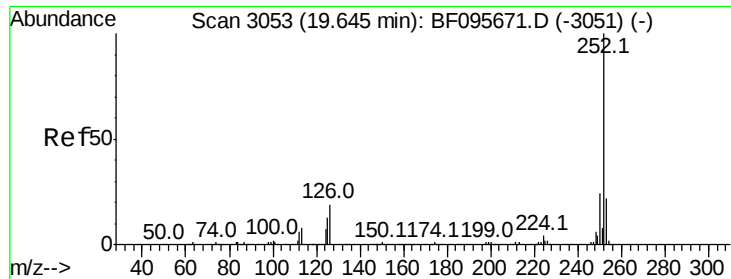
mohammad
6/19/2017 3:48:35 PM



#87
Benzo(b)fluoranthene
Concen: 91.57 ng m
RT: 19.57 min Scan# 3057
Delta R.T. 0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion:	252	Resp:	746602
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.1	27.1
125	14.7	9.8	14.8





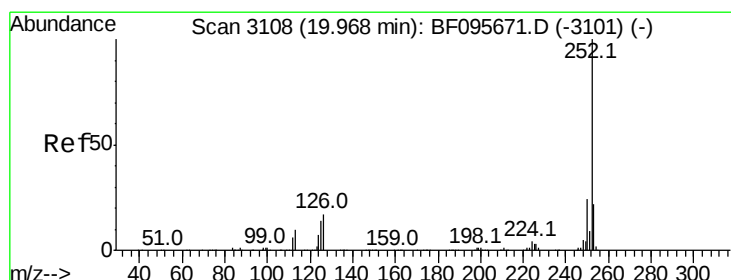
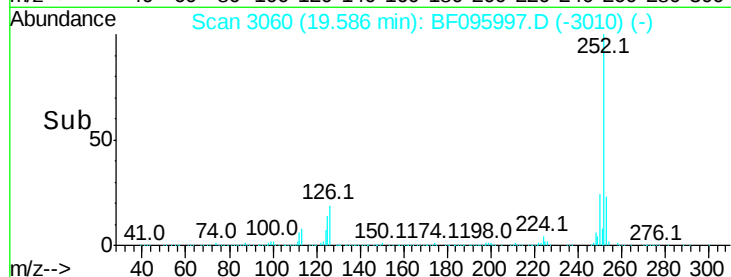
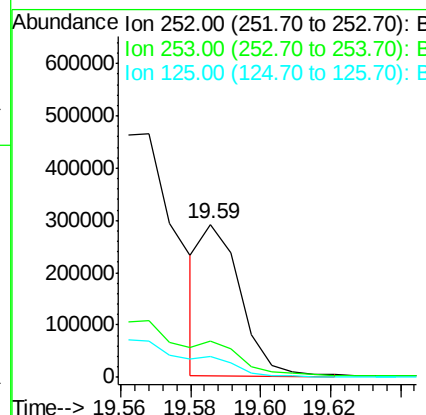
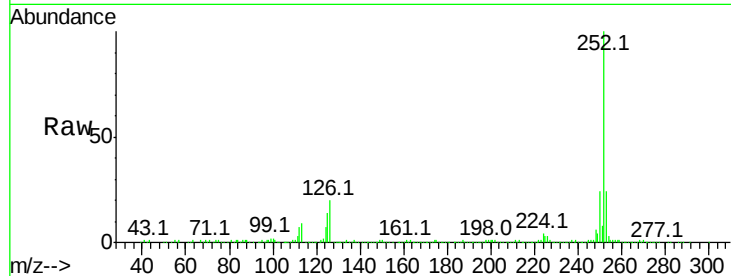
#88
Benzo(k)fluoranthene
Concen: 29.28 ng m
RT: 19.59 min Scan# 3060
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	14.0	13.1	19.7

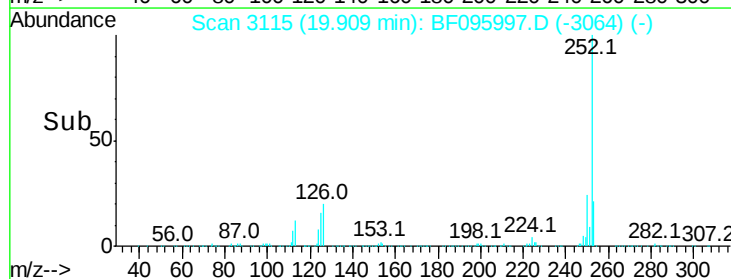
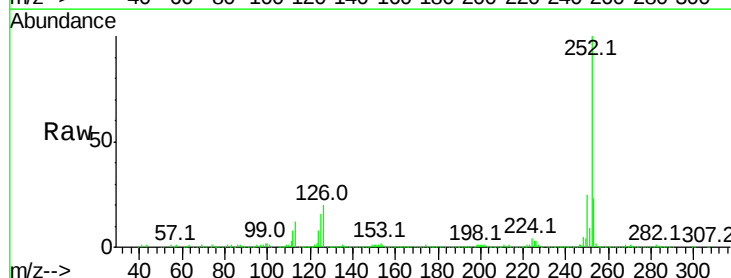
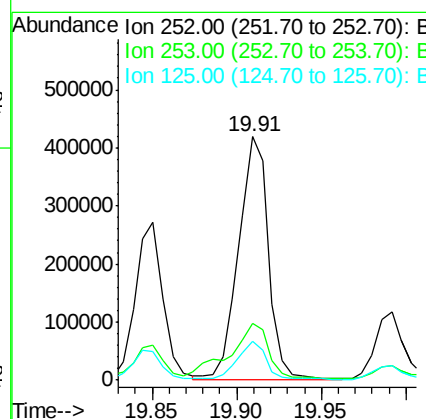
Manual Integrations
APPROVED

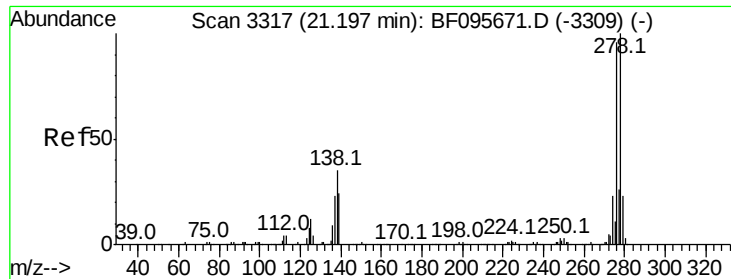
mohammad
6/19/2017 3:48:35 PM



#89
Benzo(a)pyrene
Concen: 68.11 ng
RT: 19.91 min Scan# 3115
Delta R.T. 0.00 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	15.9	11.0	16.4





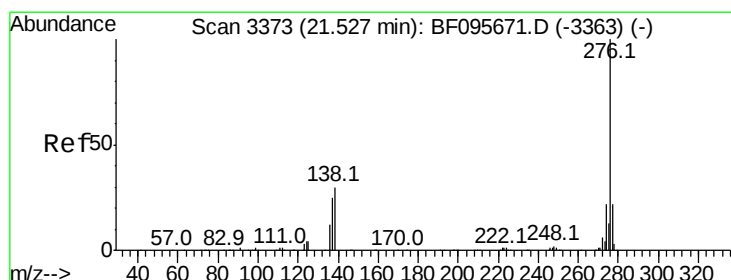
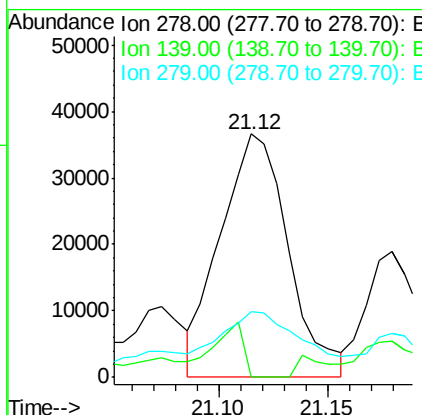
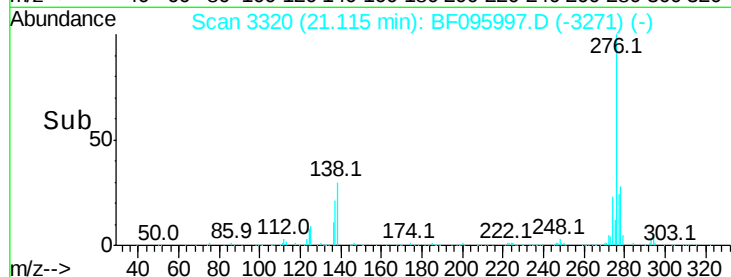
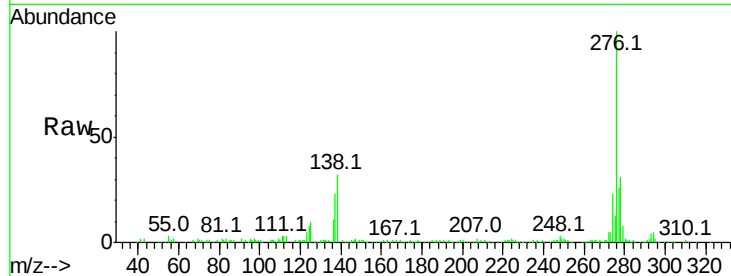
#90
Dibenzo(a,h)anthracene
Concen: 12.51 ng m
RT: 21.12 min Scan# 3320
Delta R.T. -0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	26.9	19.3	28.9

Manual Integrations
APPROVED

mohammad
6/19/2017 3:48:35 PM



#91
Benzo(g,h,i)perylene
Concen: 31.84 ng
RT: 21.45 min Scan# 3377
Delta R.T. 0.01 min
Lab File: BF095997.D
Acq: 17 Jun 2017 14:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	30.2	25.4	38.0

