

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012617\
 Data File : BF092579.D
 Acq On : 27 Jan 2017 16:06
 Operator : SJ/MA
 Sample : I1265-04RE
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3RE

Manual Integrations
 APPROVED

mohammad
 1/27/2017 5:32:54 PM

Quant Time: Jan 27 17:26:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 13:48:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	163591	20.00	ng	0.01
21) Naphthalene-d8	8.27	136	586131	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	260408	20.00	ng	0.01
63) Phenanthrene-d10	11.53	188	375721	20.00	ng	0.00
75) Chrysene-d12	14.18	240	287986	20.00	ng	0.01
86) Perylene-d12	15.68	264	194806	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	1250113	118.89	ng	0.06
7) Phenol-d6	6.64	99	1460247	109.03	ng	0.05
23) Nitrobenzene-d5	7.55	82	923138	86.03	ng	0.01
41) 2,4,6-Tribromophenol	10.83	330	199285	112.30	ng	0.01
44) 2-Fluorobiphenyl	9.36	172	1394064	98.99	ng	0.00
78) Terphenyl-d14	13.12	244	910597	84.20	ng	0.00
Target Compounds						
10) Phenol	6.65	94	70539	4.36	ng	Qvalue # 64
31) Naphthalene	8.29	128	111023	3.70	ng	97
37) 2-Methylnaphthalene	8.99	142	63925	3.37	ng	97
48) Acenaphthylene	9.89	152	118803	5.27	ng	99
49) Dimethylphthalate	9.76	163	227261	13.72	ng	99
51) Acenaphthene	10.06	154	43610	3.11	ng	87
54) Dibenzofuran	10.24	168	73176	3.85	ng	# 95
57) Fluorene	10.59	166	120432	8.54	ng	94
70) Phenanthrene	11.55	178	681925	32.96	ng	98
71) Anthracene	11.61	178	260404	12.88	ng	97
72) Carbazole	11.77	167	78946	4.09	ng	99
74) Fluoranthene	12.75	202	924792	45.69	ng	94
77) Pyrene	12.98	202	899775	43.12	ng	99
80) Benzo(a)anthracene	14.17	228	394548	25.49	ng	# 89
82) Chrysene	14.20	228	327096m	19.79	ng	
85) Indeno(1,2,3-cd)pyrene	17.19	276	137140	11.21	ng	98
87) Benzo(b)fluoranthene	15.23	252	320814m	25.65	ng	
88) Benzo(k)fluoranthene	15.24	252	135376m	13.02	ng	
89) Benzo(a)pyrene	15.61	252	241455	22.82	ng	# 95
90) Dibenzo(a,h)anthracene	17.20	278	34618	4.05	ng	# 63
91) Benzo(g,h,i)perylene	17.64	276	136347	15.76	ng	# 92

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

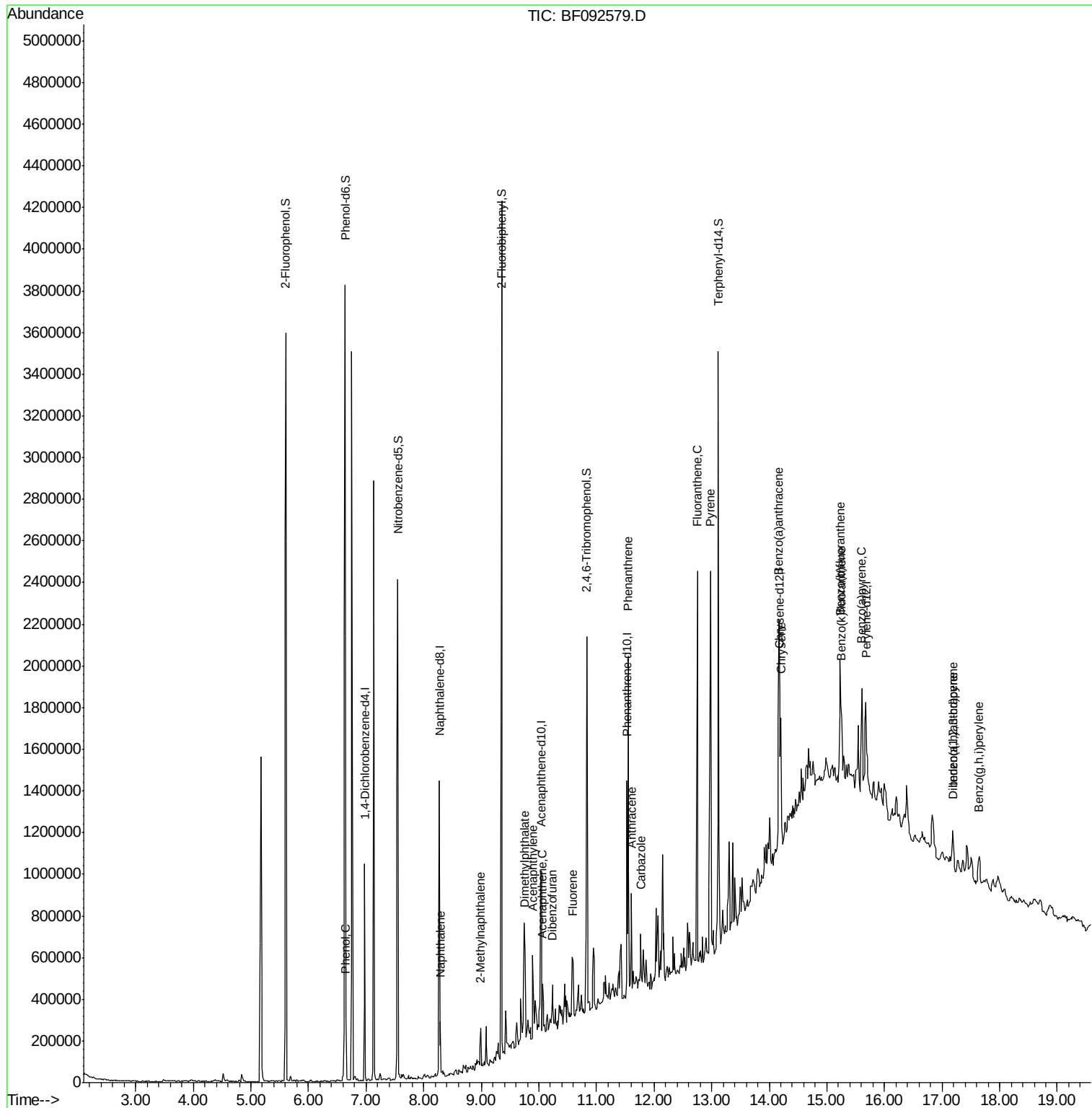
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012617\
Data File : BF092579.D
Acq On : 27 Jan 2017 16:06
Operator : SJ/MA
Sample : I1265-04RE
Misc :
ALS Vial : 64 Sample Multiplier: 1

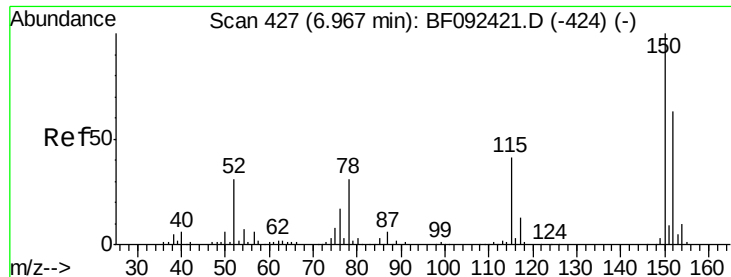
Instrument :
BNA_F
ClientSampled :
B-3RE

Quant Time: Jan 27 17:26:50 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 13:48:07 2017
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM





#1

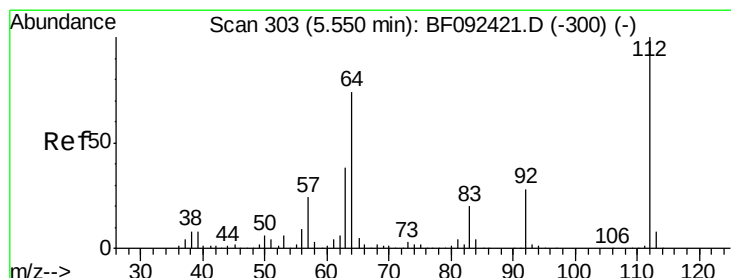
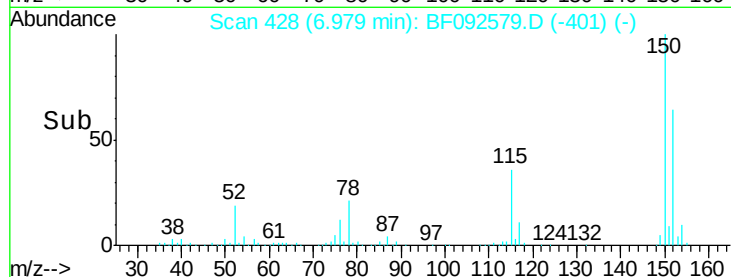
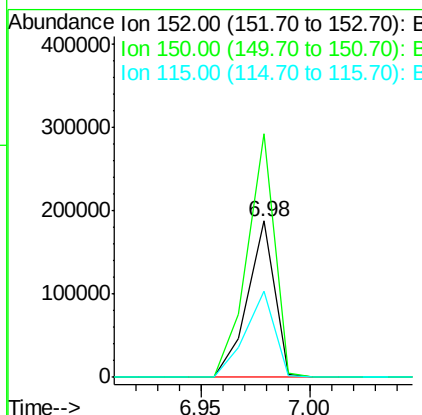
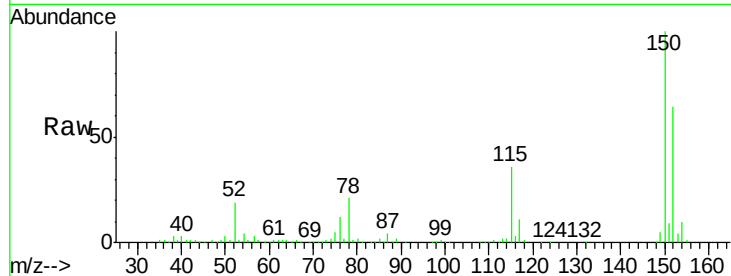
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.98 min Scan# 428
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.9	187.3
115	55.3	46.0	69.0

Manual Integrations
APPROVED

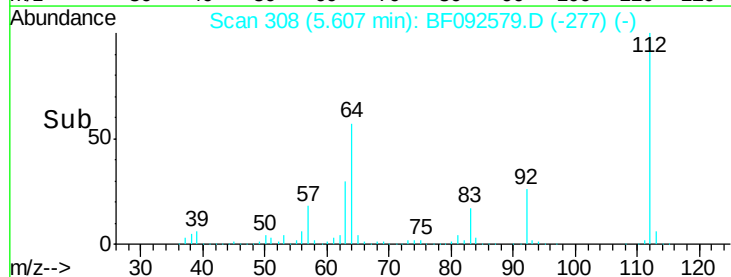
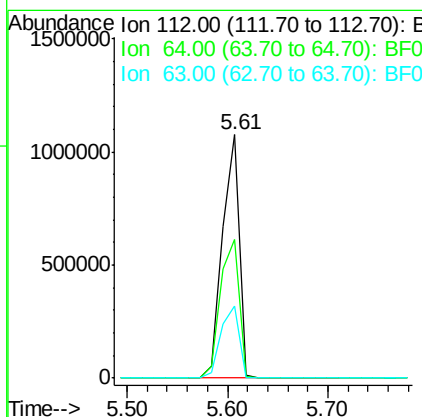
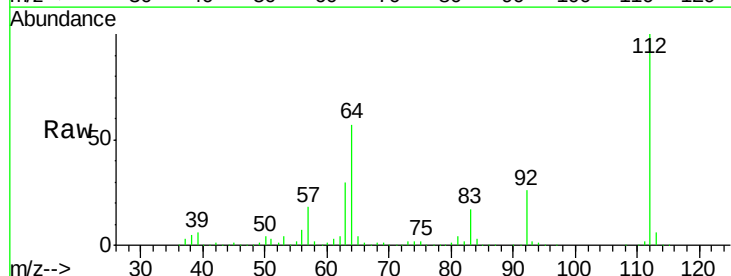
mohammad
1/27/2017 5:32:54 PM

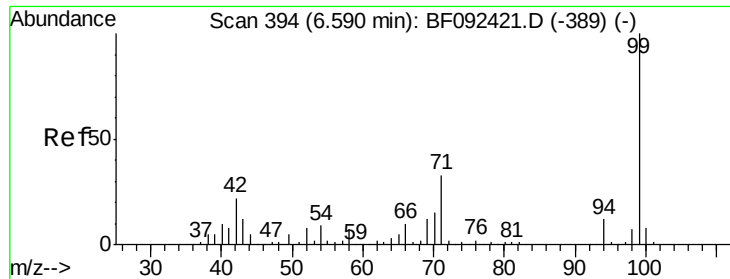


#5

2-Fluorophenol
Concen: 118.89 ng
RT: 5.61 min Scan# 308
Delta R.T. 0.06 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	46.1	69.1
63	29.7	23.8	35.6





#7

Phenol-d6

Concen: 109.03 ng

RT: 6.64 min Scan# 398

Delta R.T. 0.05 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

ClientSampleId :

B-3RE

Tot Ion: 99 Resp: 1460247

Ion Ratio Lower Upper

99 100

42 20.1 15.6 23.4

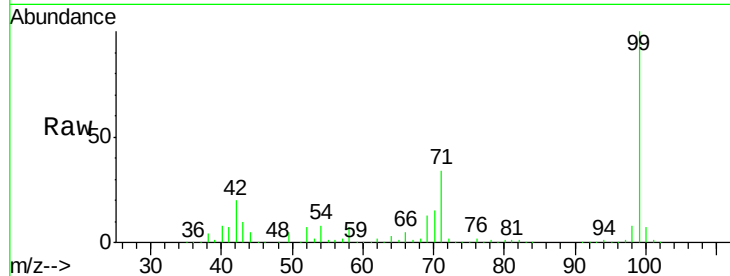
71 33.5 27.5 41.3

Manual Integrations

APPROVED

mohammad

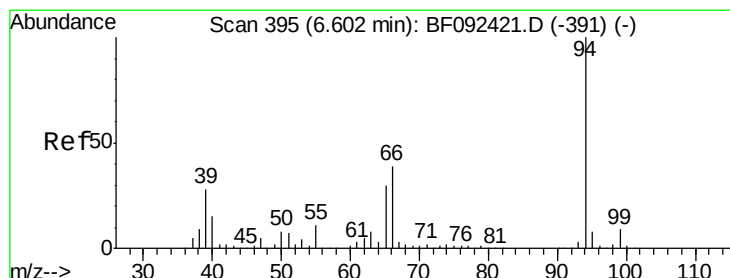
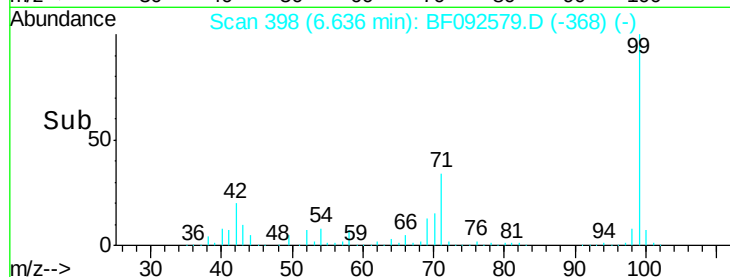
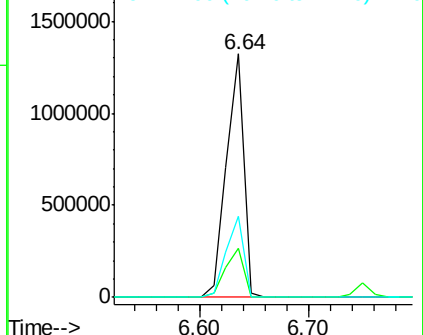
1/27/2017 5:32:54 PM



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



#10

Phenol

Concen: 4.36 ng

RT: 6.65 min Scan# 399

Delta R.T. 0.05 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

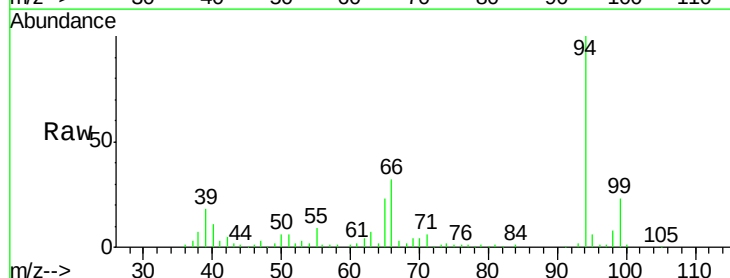
Tgt Ion: 94 Resp: 70539

Ion Ratio Lower Upper

94 100

65 23.4 21.4 61.4

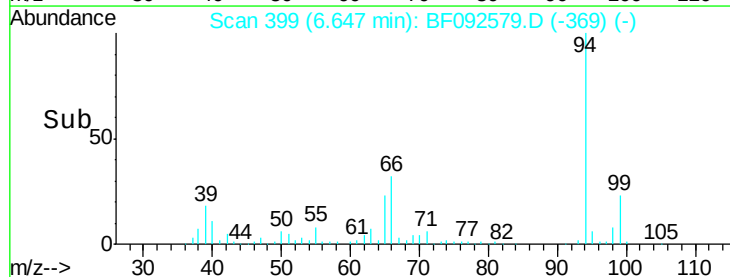
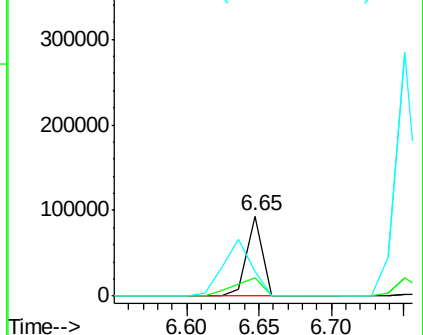
66 31.7 44.0 84.0#

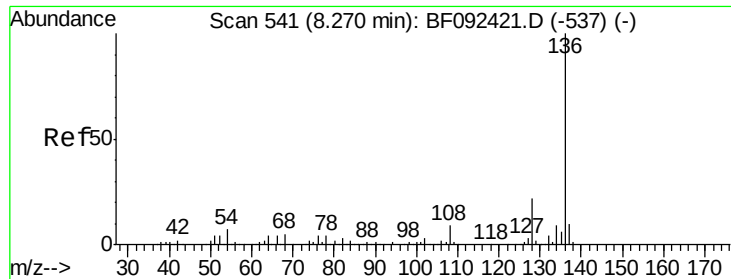


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





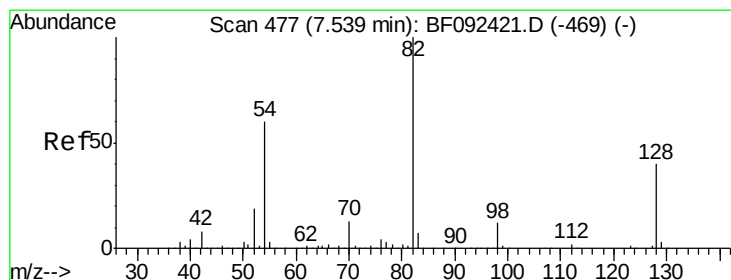
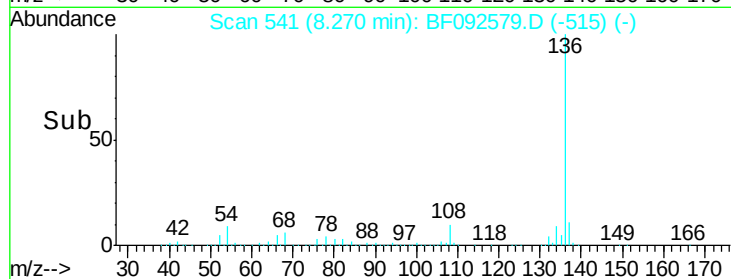
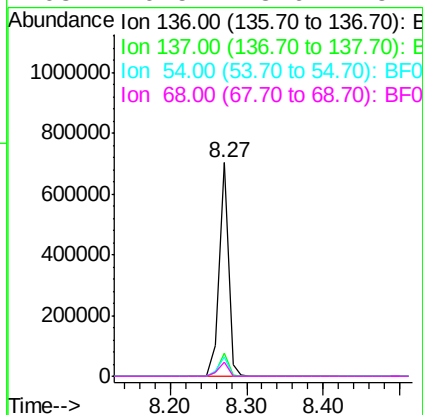
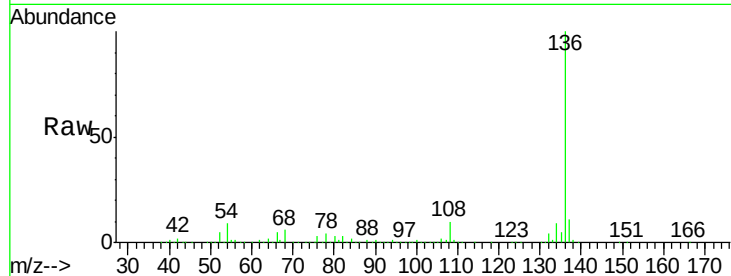
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.27 min Scan# 541
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampled :
B-3RE

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.4	12.6	
54	9.3	4.5	6.7#	
68	6.5	3.6	5.4#	

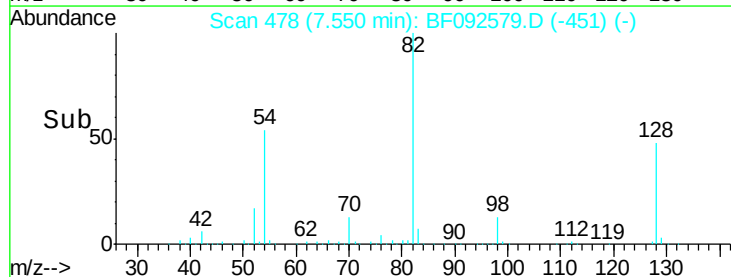
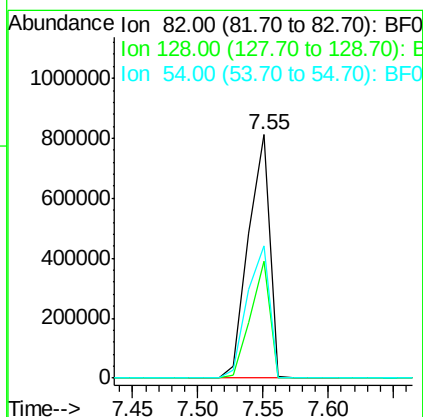
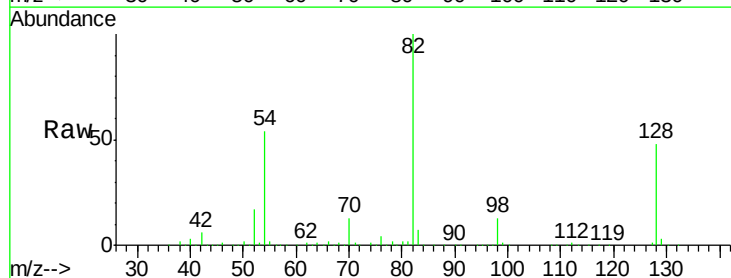
Manual Integrations
APPROVED

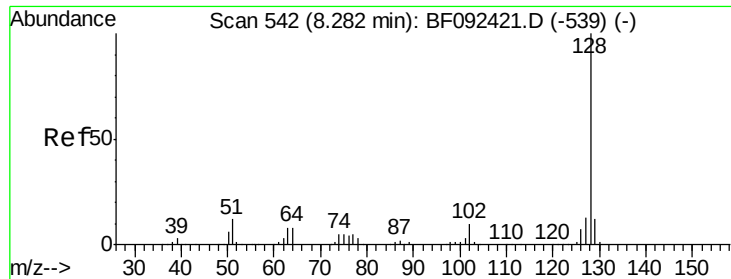
mohammad
1/27/2017 5:32:54 PM



#23
Nitrobenzene-d5
Concen: 86.03 ng
RT: 7.55 min Scan# 478
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.3	34.6	52.0	
54	54.1	39.5	59.3	





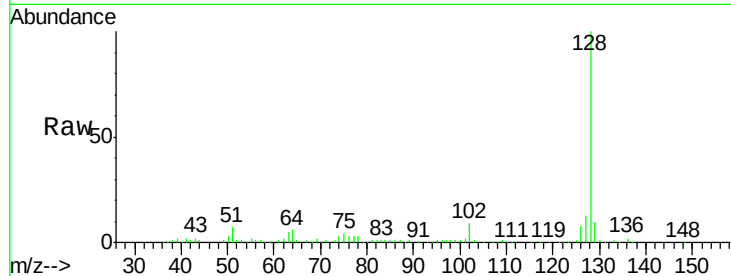
#31
Naphthalene
Concen: 3.70 ng
RT: 8.29 min Scan# 543
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

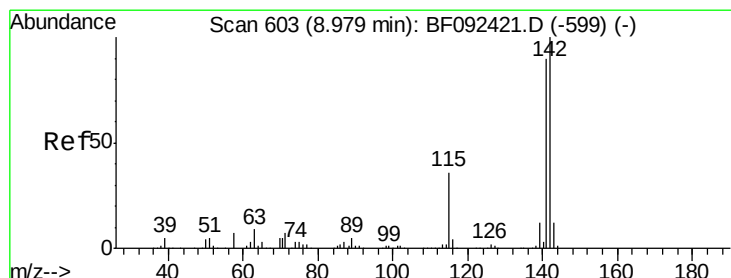
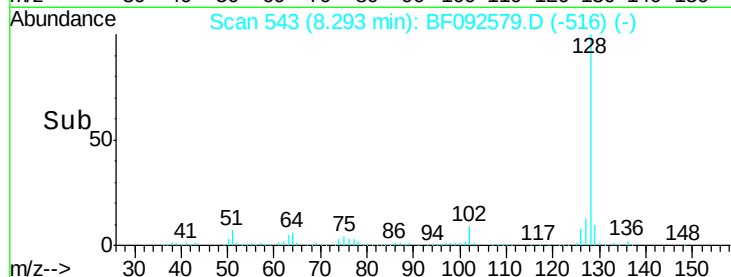
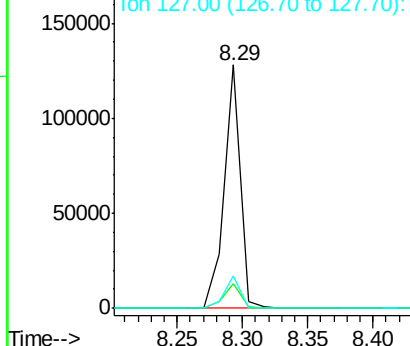
Tot Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.5	14.3
127	13.1	10.8	16.2

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM

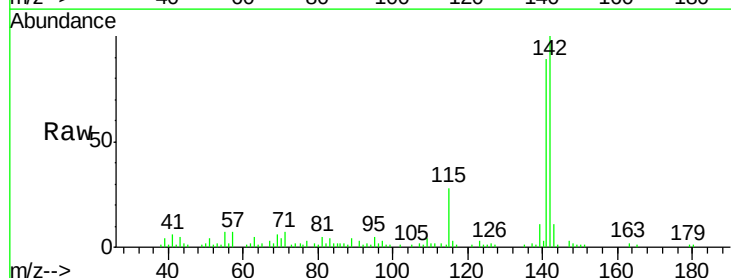


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

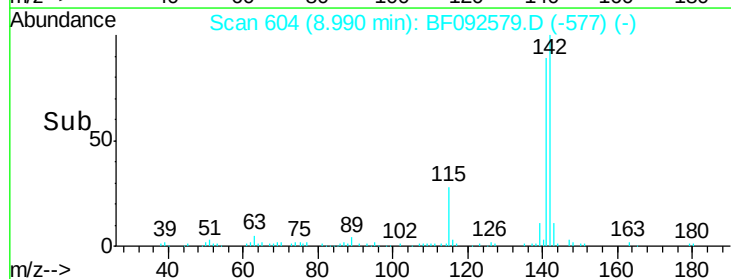
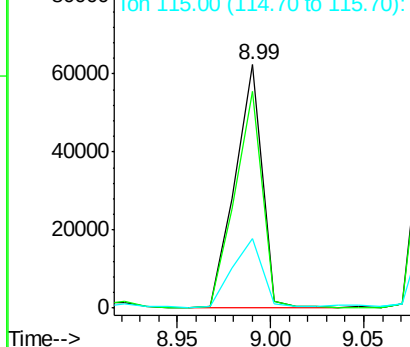


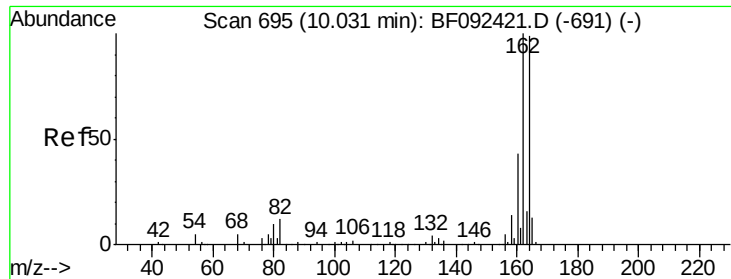
#37
2-Methylnaphthalene
Concen: 3.37 ng
RT: 8.99 min Scan# 604
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.6
115	28.3	28.3	42.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.04 min Scan# 696

Delta R.T. 0.01 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

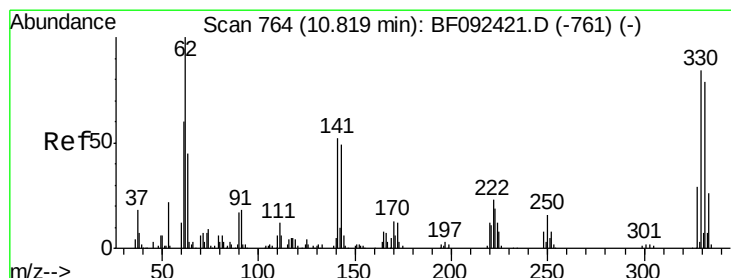
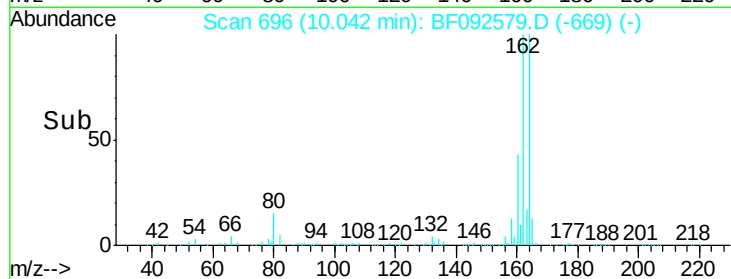
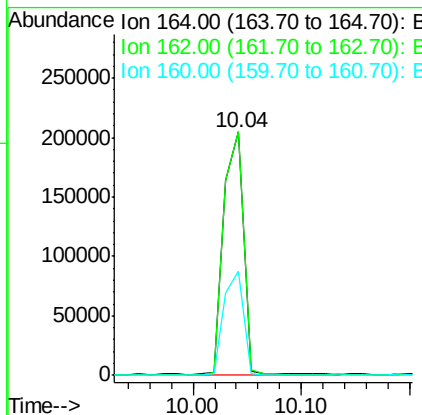
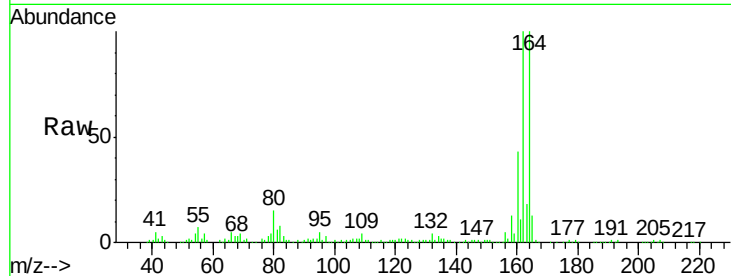
ClientSampled :

B-3RE

Tot Ion:	164	Resp:	260408
Ion Ratio	Lower	Upper	
164	100		
162	99.9	80.2	120.2
160	42.8	36.9	55.3

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM



#41

2,4,6-Tribromophenol

Concen: 112.30 ng

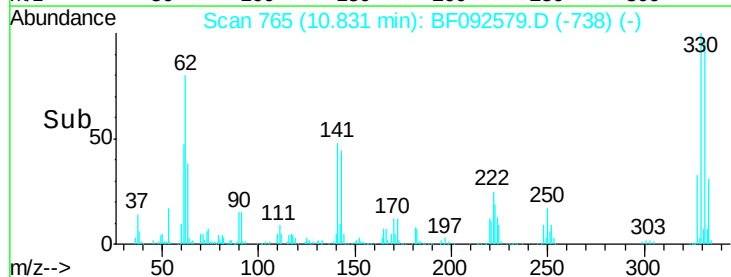
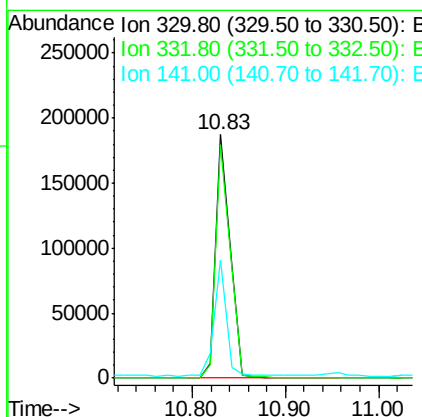
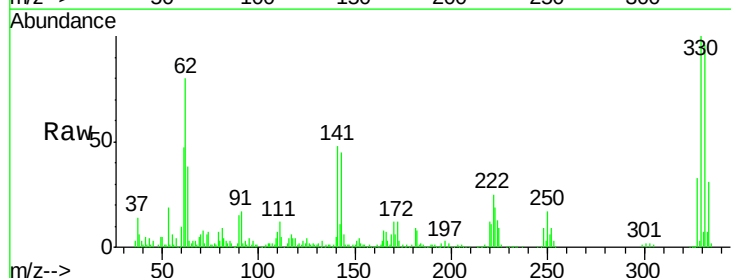
RT: 10.83 min Scan# 765

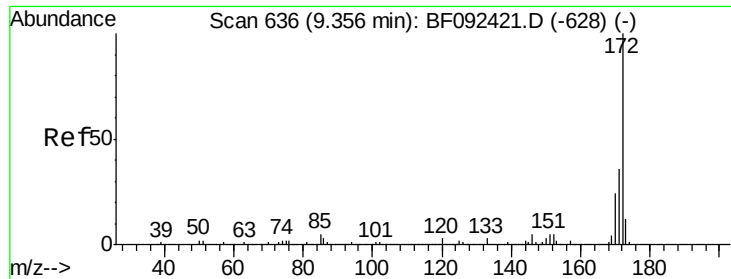
Delta R.T. 0.01 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Tgt Ion:	330	Resp:	199285
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.4	116.2
141	42.0	34.1	51.1





#44

2-Fluorobiphenyl

Concen: 98.99 ng

RT: 9.36 min Scan# 636

Delta R.T. -0.00 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

ClientSampleId :

B-3RE

Tot Ion:172 Resp: 1394064

Ion Ratio Lower Upper

172 100

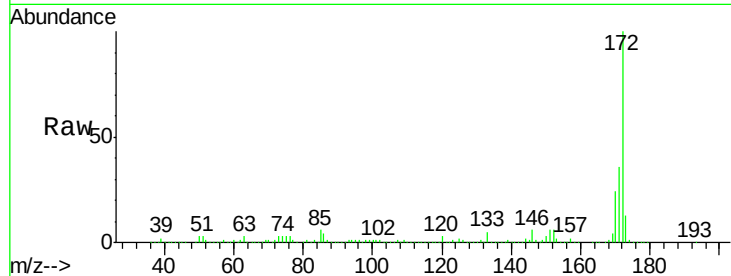
171 36.5 29.4 44.0

170 24.3 20.2 30.4

Manual Integrations
APPROVED

mohammad

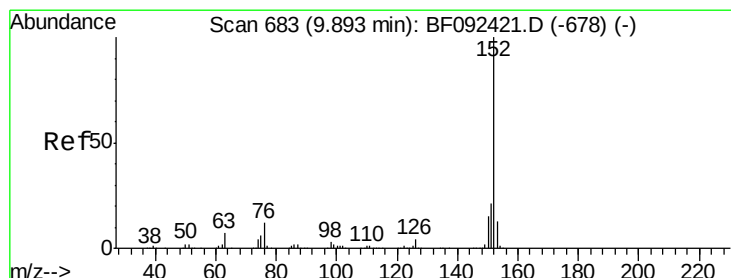
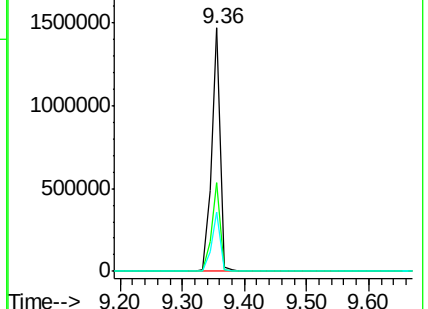
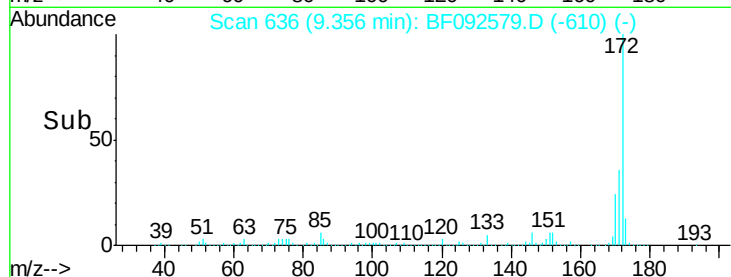
1/27/2017 5:32:54 PM



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



#48

Acenaphthylene

Concen: 5.27 ng

RT: 9.89 min Scan# 683

Delta R.T. -0.00 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

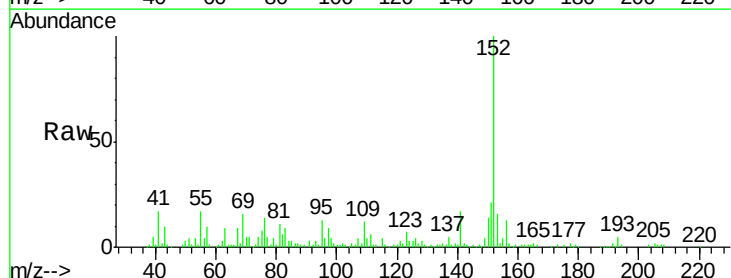
Tgt Ion:152 Resp: 118803

Ion Ratio Lower Upper

152 100

151 21.2 16.9 25.3

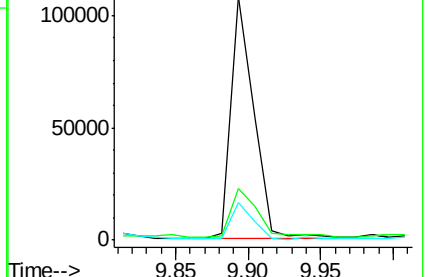
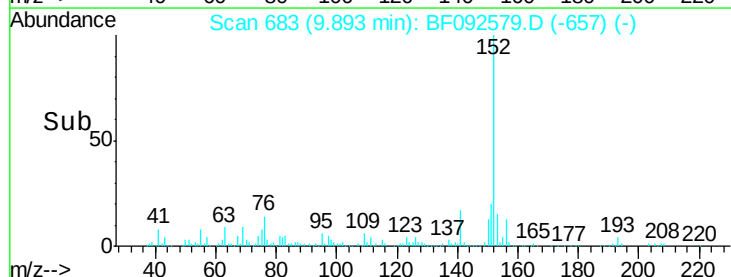
153 15.6 11.4 17.2

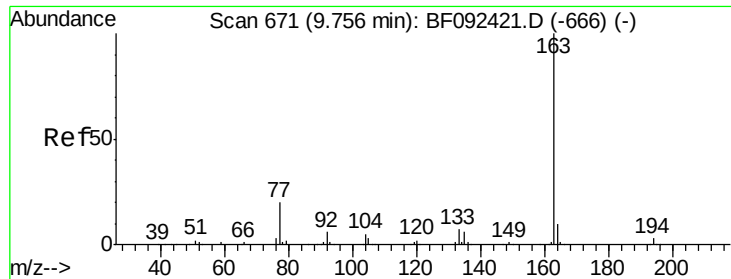


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





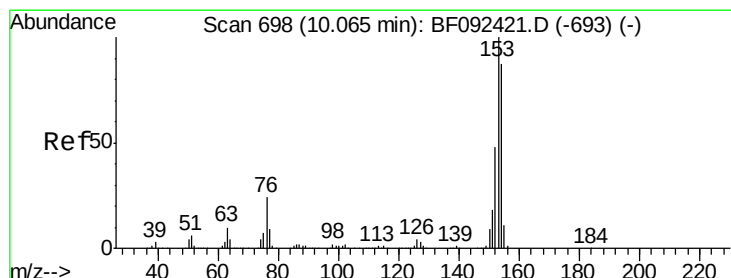
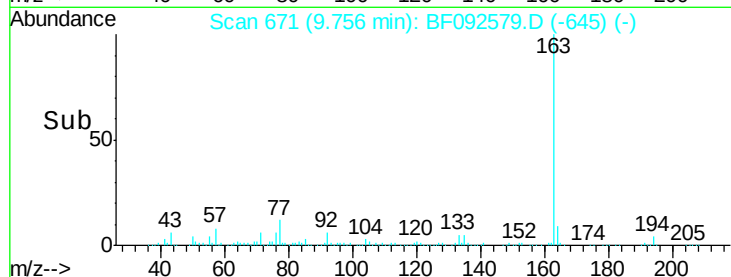
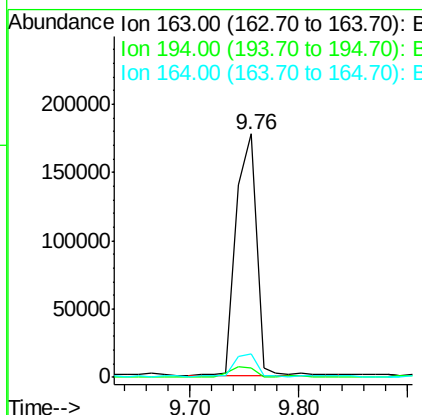
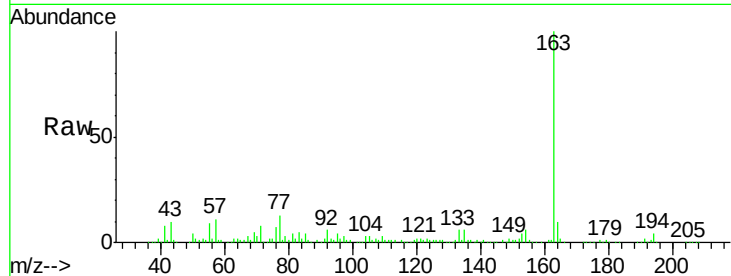
#49
Dimethylphthalate
Concen: 13.72 ng
RT: 9.76 min Scan# 671
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

Tot Ion	Ratio	Resp	Lower	Upper
163	100	227261		
194	4.1		3.0	4.4
164	9.7		8.0	12.0

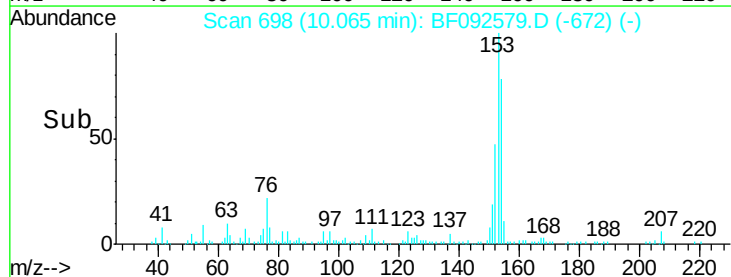
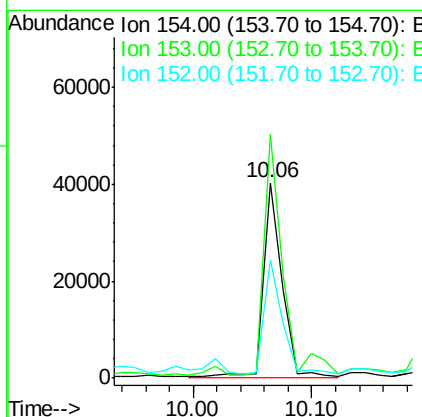
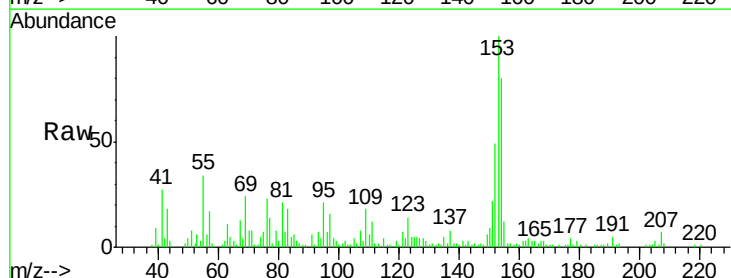
Manual Integrations
APPROVED

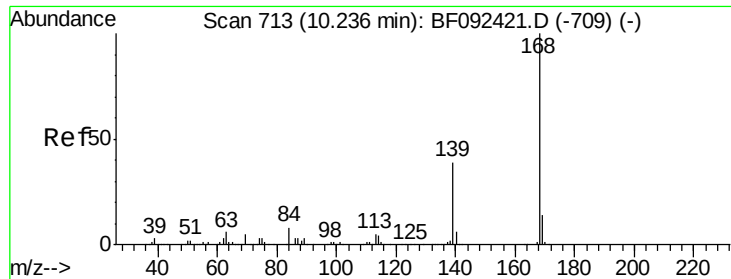
mohammad
1/27/2017 5:32:54 PM



#51
Acenaphthene
Concen: 3.11 ng
RT: 10.06 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	43610		
153	124.5		88.6	133.0
152	60.5		41.6	62.4





#54

Dibenzofuran

Concen: 3.85 ng

RT: 10.24 min Scan# 713

Delta R.T. -0.00 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

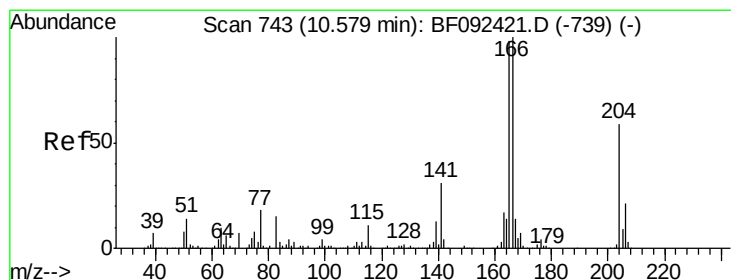
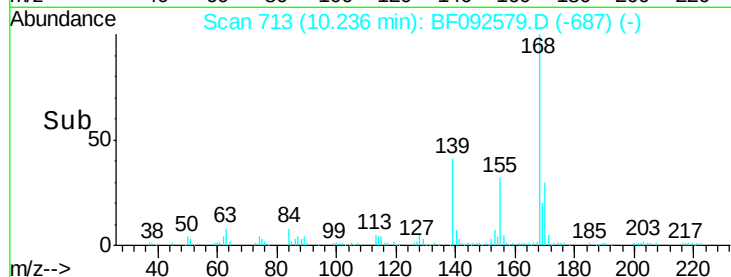
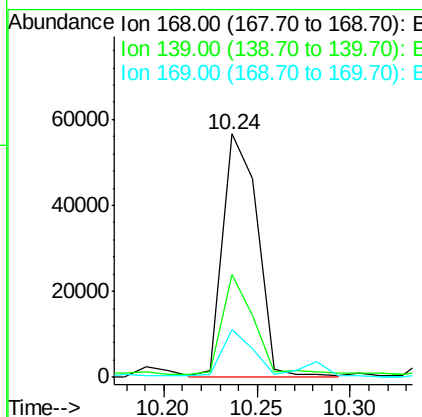
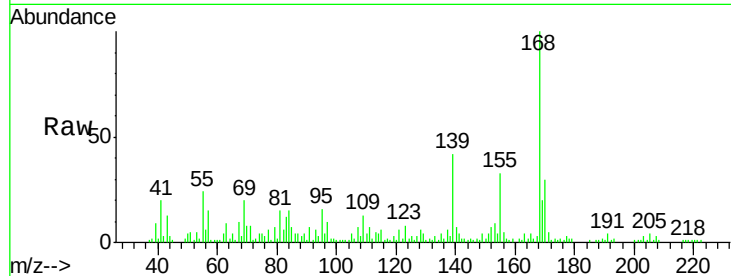
ClientSampleId :

B-3RE

Tot Ion:	168	Resp:	73176
Ion Ratio	Lower	Upper	
168	100		
139	42.3	32.6	49.0
169	19.7	11.3	16.9#

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM



#57

Fluorene

Concen: 8.54 ng

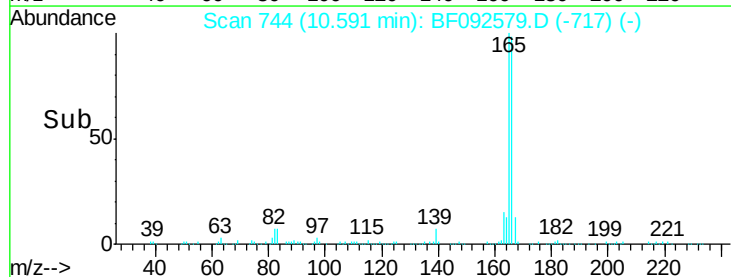
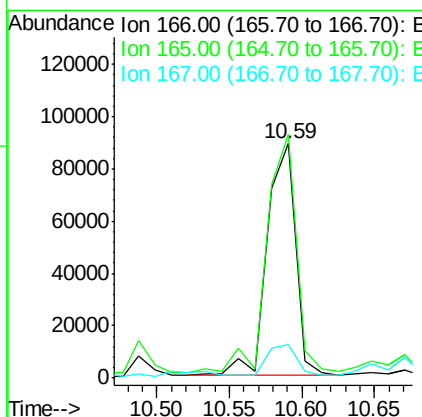
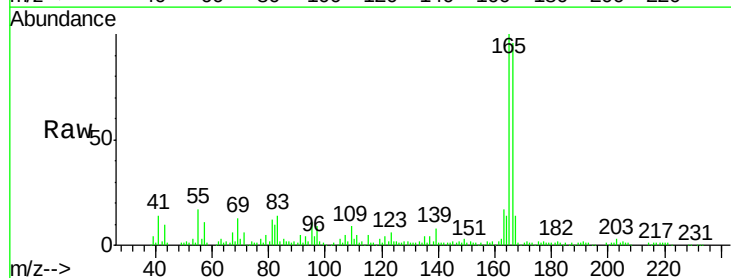
RT: 10.59 min Scan# 744

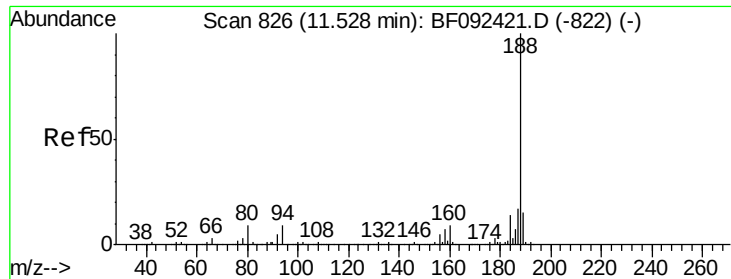
Delta R.T. 0.01 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Tgt Ion:	166	Resp:	120432
Ion Ratio	Lower	Upper	
166	100		
165	104.0	77.8	116.8
167	14.5	10.8	16.2





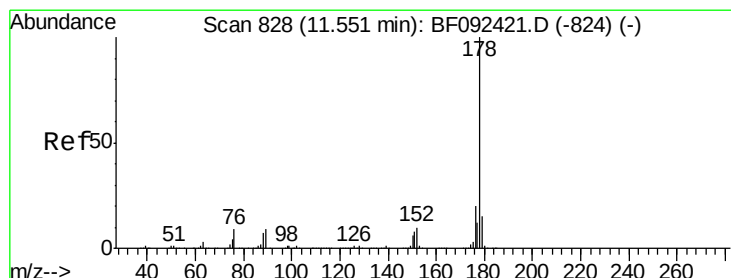
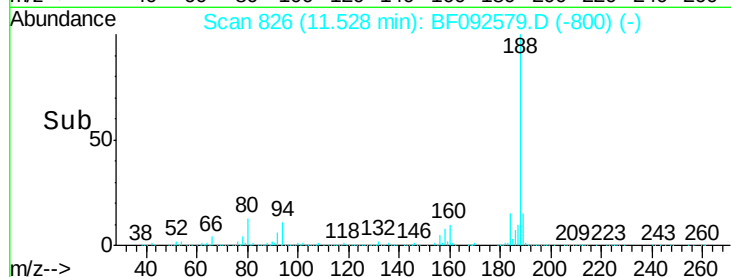
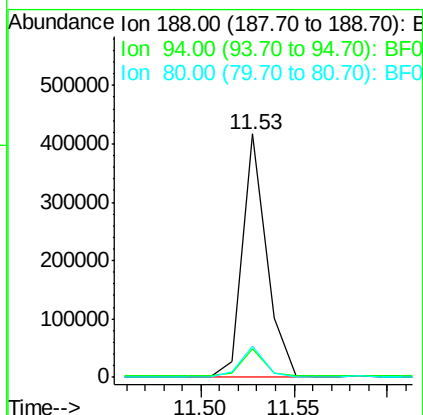
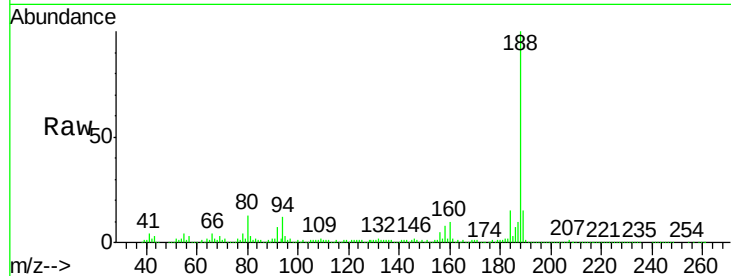
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.53 min Scan# 826
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampled :
B-3RE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	375721		
94	11.5		10.0	15.0
80	13.0		11.2	16.8

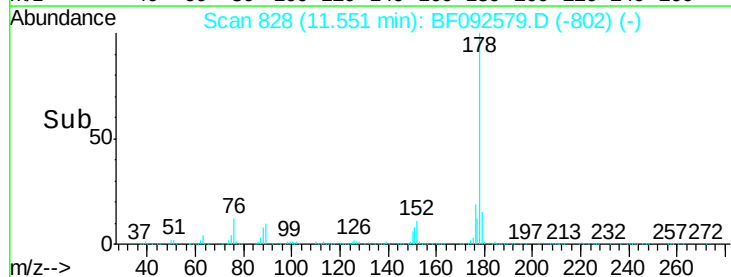
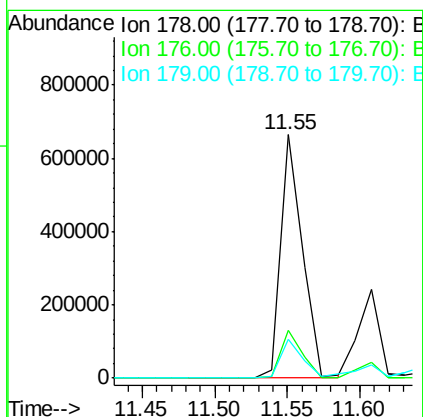
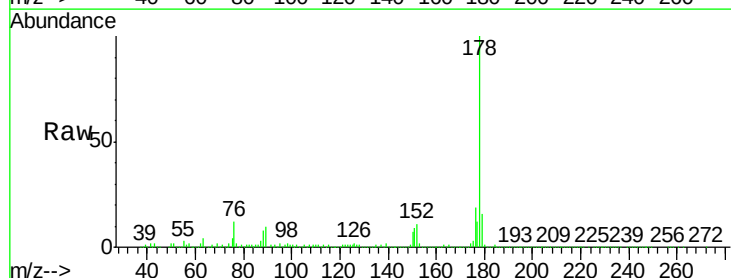
Manual Integrations
APPROVED

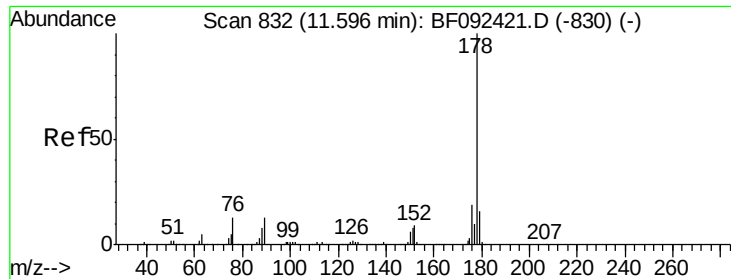
mohammad
1/27/2017 5:32:54 PM



#70
Phenanthrene
Concen: 32.96 ng
RT: 11.55 min Scan# 828
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	681925		
176	19.4		16.6	25.0
179	15.9		12.8	19.2





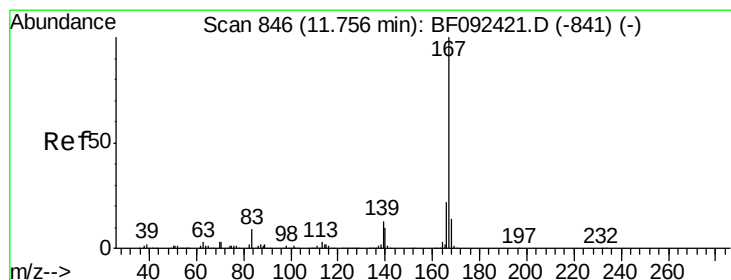
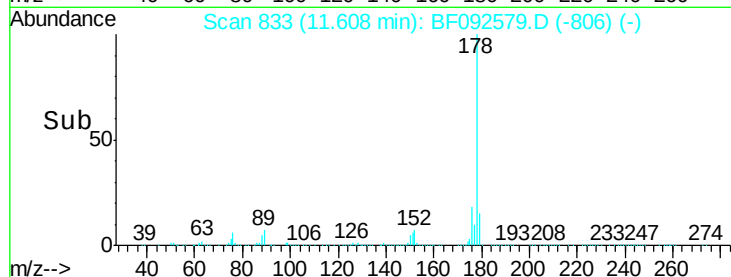
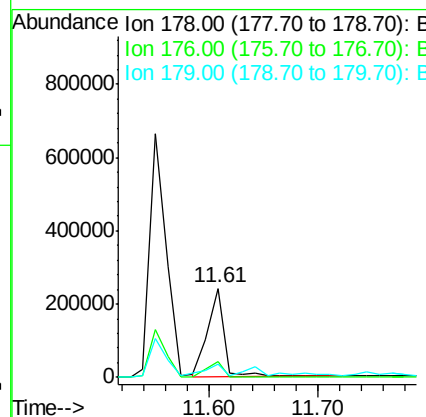
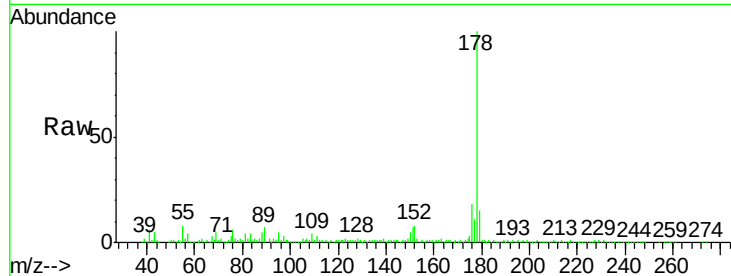
#71
 Anthracene
 Concen: 12.88 ng
 RT: 11.61 min Scan# 833
 Delta R.T. 0.01 min
 Lab File: BF092579.D
 Acq: 27 Jan 2017 16:06

Instrument :
 BNA_F
 ClientSampled :
 B-3RE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.9	23.9
179	15.4	13.2	19.8

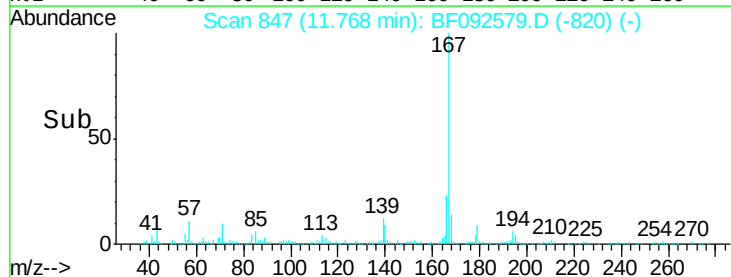
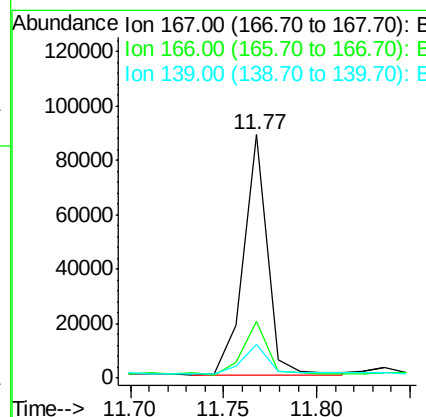
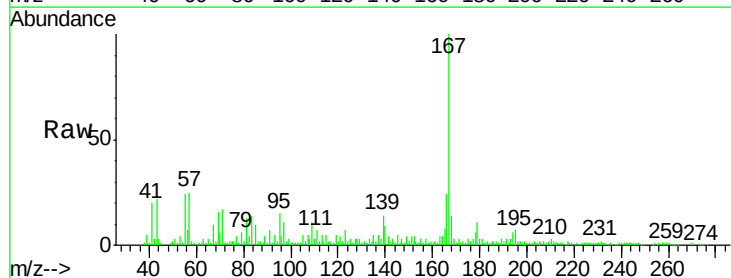
Manual Integrations
 APPROVED

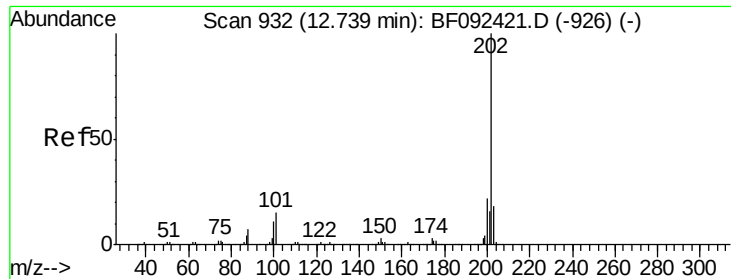
mohammad
 1/27/2017 5:32:54 PM



#72
 Carbazole
 Concen: 4.09 ng
 RT: 11.77 min Scan# 847
 Delta R.T. 0.01 min
 Lab File: BF092579.D
 Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	18.2	27.2
139	13.9	11.4	17.2





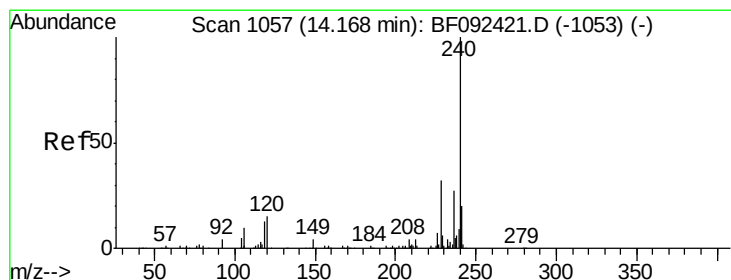
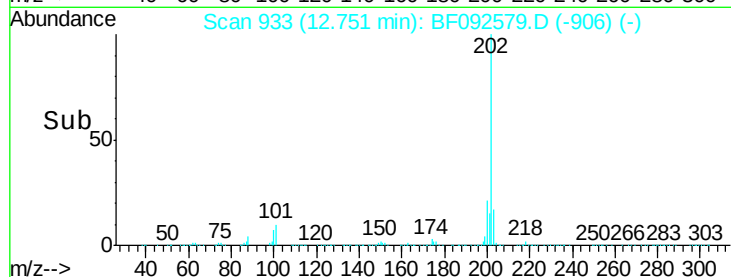
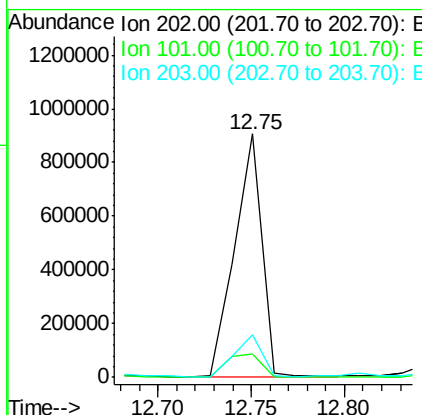
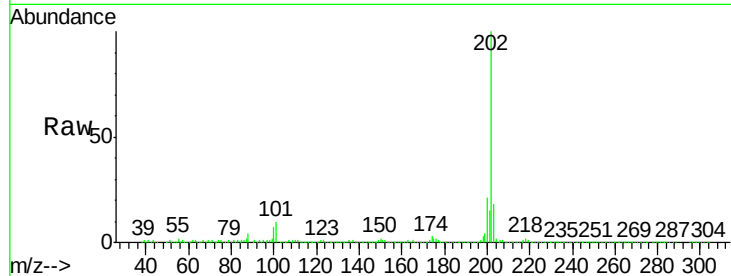
#74
Fluoranthene
Concen: 45.69 ng
RT: 12.75 min Scan# 933
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.7	0.0	34.6
203	17.7	0.0	38.7

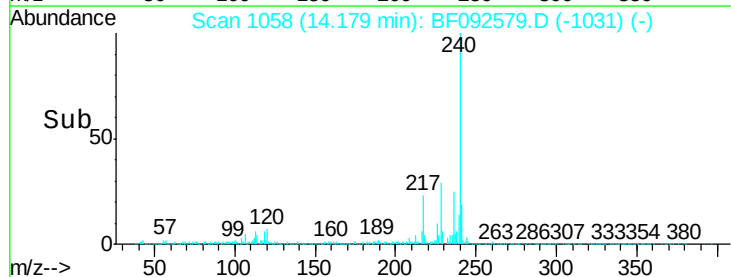
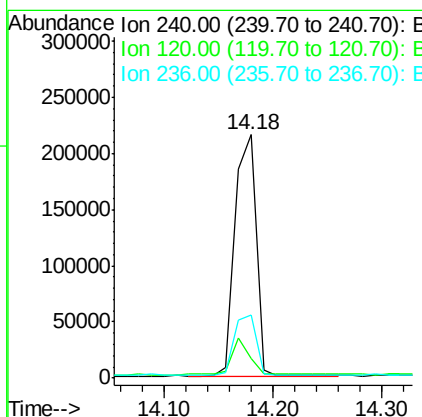
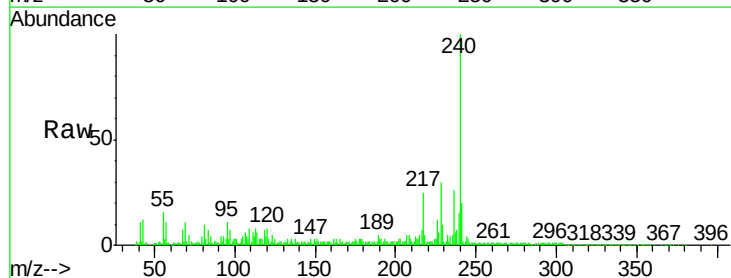
Manual Integrations
APPROVED

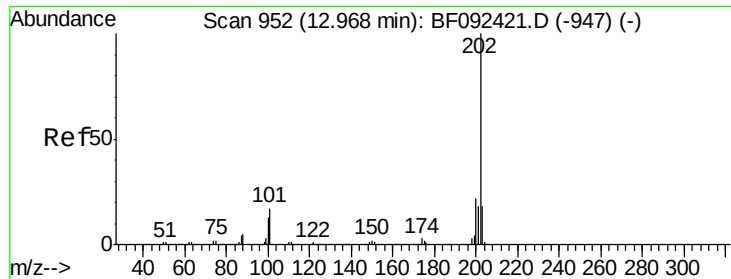
mohammad
1/27/2017 5:32:54 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.18 min Scan# 1058
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.2	12.9	19.3#
236	25.9	20.9	31.3





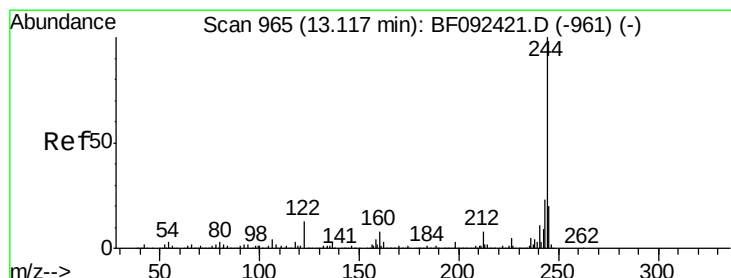
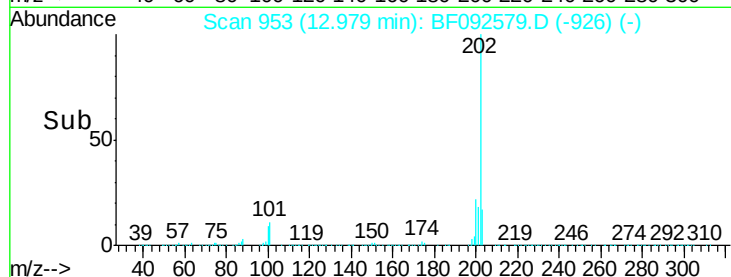
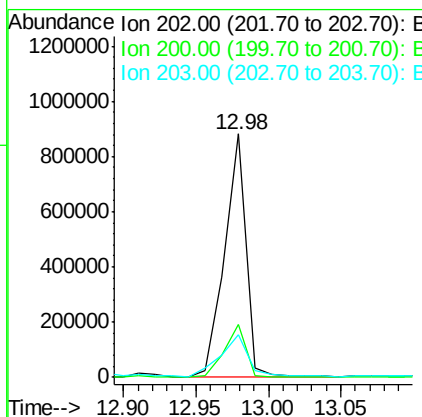
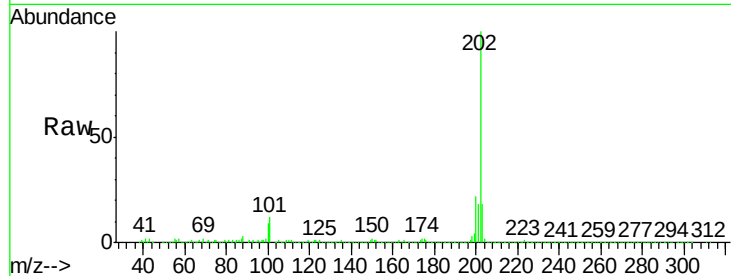
#77
Pvrene
Concen: 43.12 ng
RT: 12.98 min Scan# 953
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5
203	17.7	14.7	22.1

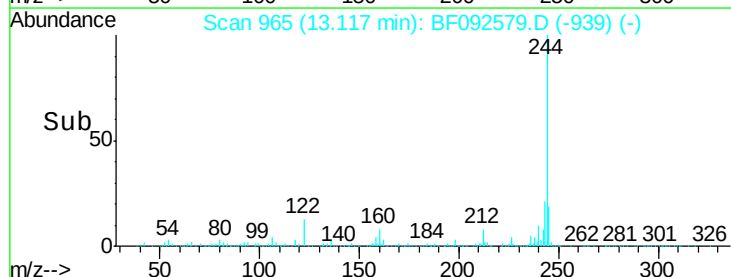
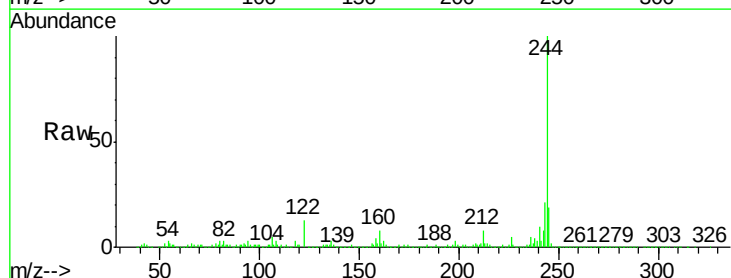
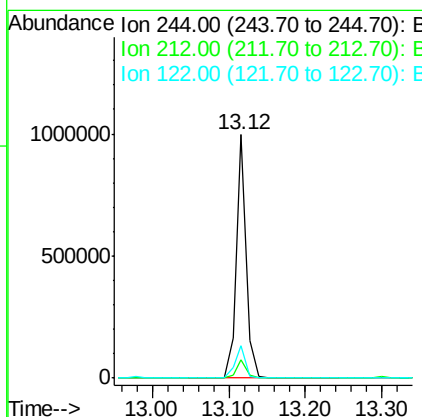
Manual Integrations
APPROVED

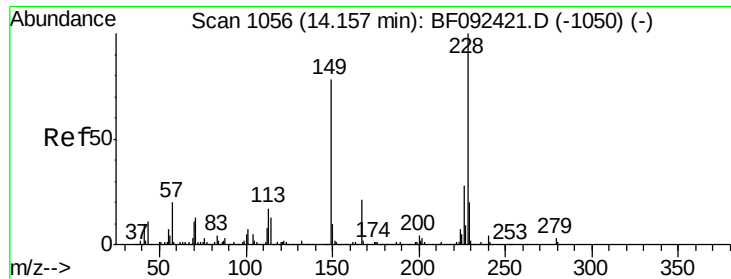
mohammad
1/27/2017 5:32:54 PM



#78
Terphenyl-d14
Concen: 84.20 ng
RT: 13.12 min Scan# 965
Delta R.T. -0.00 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.2
122	13.1	11.4	17.2





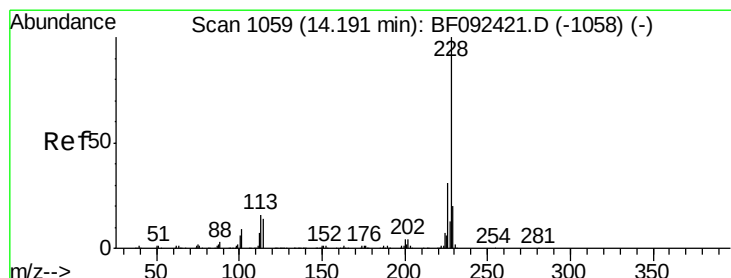
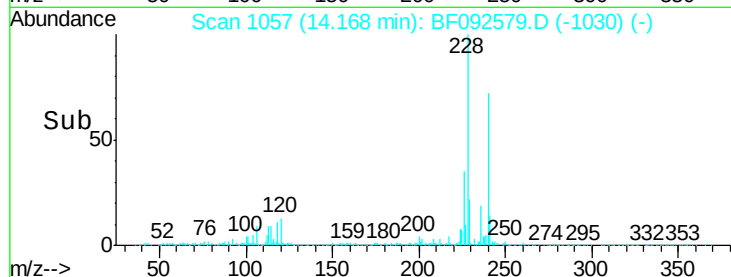
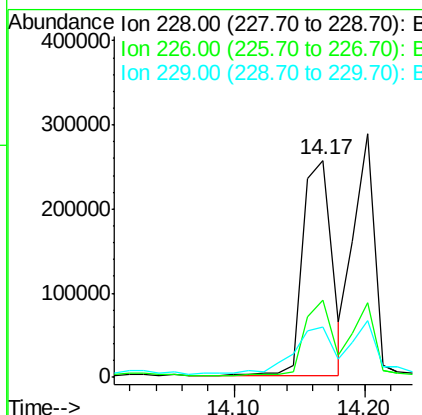
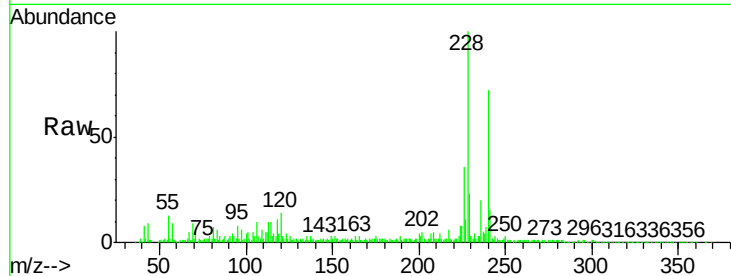
#80
Benzo(a)anthracene
Concen: 25.49 ng
RT: 14.17 min Scan# 1057
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

Tot Ion	Ratio	Lower	Upper
228	100		
226	35.8	22.4	33.6#
229	23.2	16.2	24.4

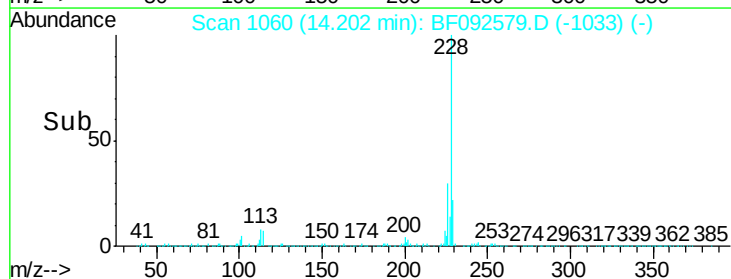
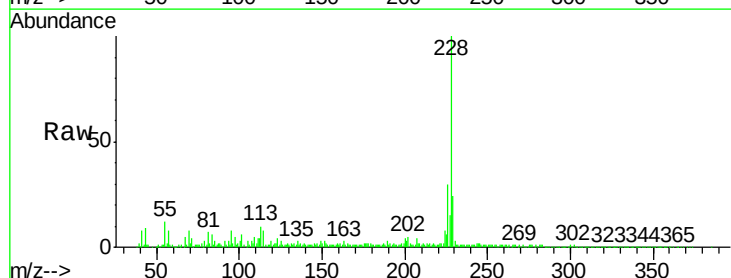
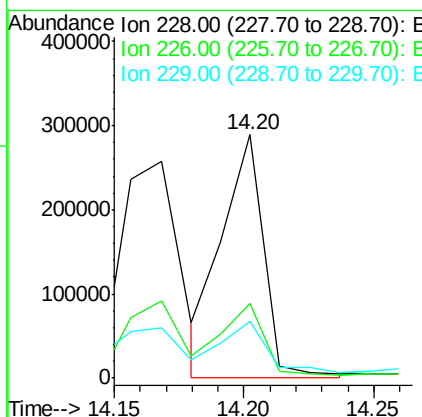
Manual Integrations
APPROVED

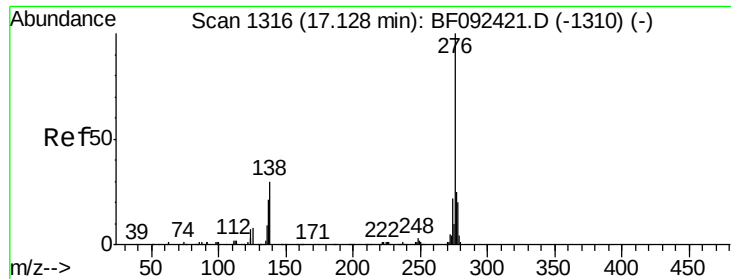
mohammad
1/27/2017 5:32:54 PM



#82
Chrysene
Concen: 19.79 ng m
RT: 14.20 min Scan# 1060
Delta R.T. 0.01 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.4	38.0
229	23.5	16.2	24.2





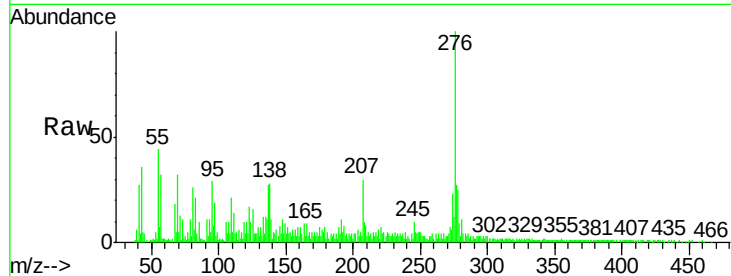
#85
Indeno(1,2,3-cd)pyrene
Concen: 11.21 ng
RT: 17.19 min Scan# 1321
Delta R.T. 0.06 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampleId :
B-3RE

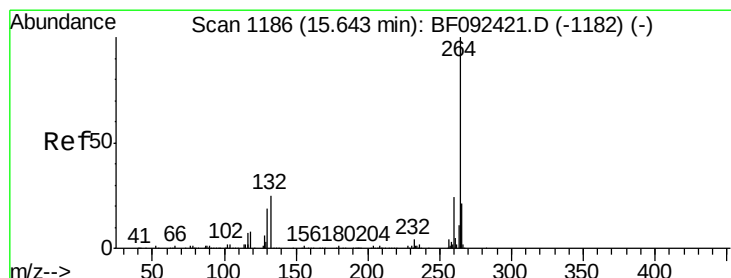
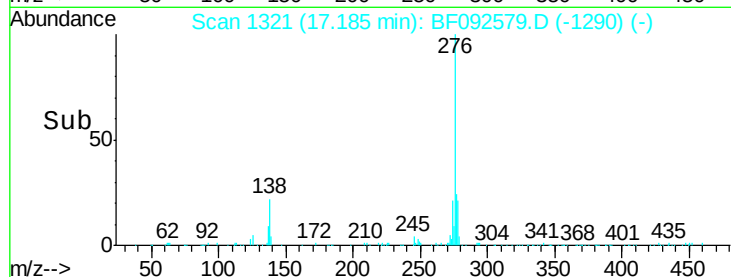
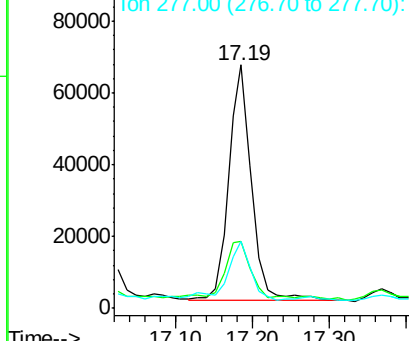
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.0	21.8	32.6
277	24.6	20.2	30.4

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM

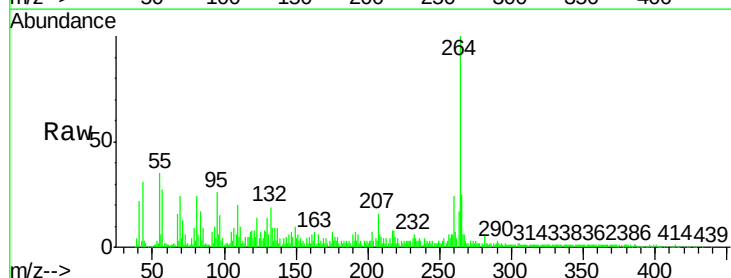


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

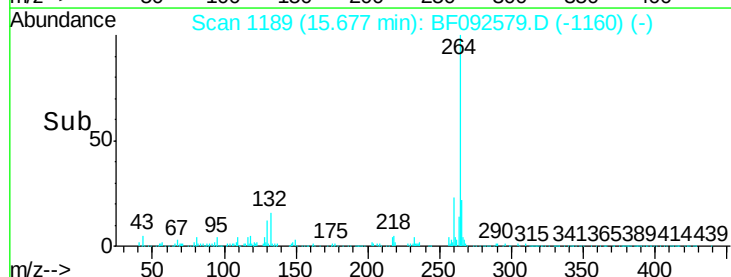
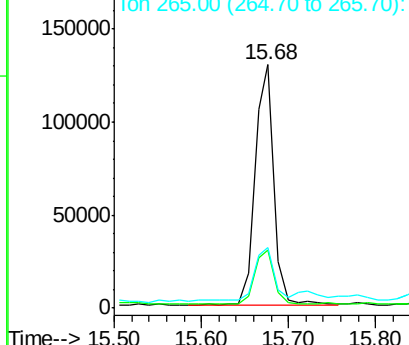


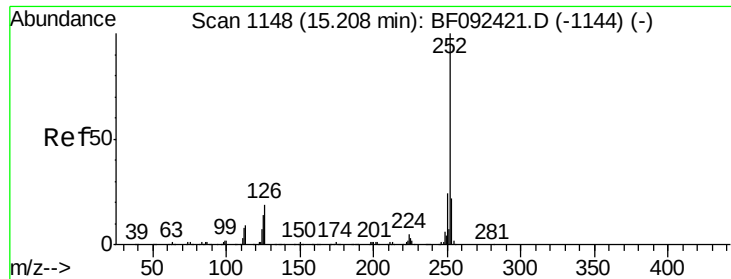
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.68 min Scan# 1189
Delta R.T. 0.03 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	24.8	17.4	26.0



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 25.65 ng m

RT: 15.23 min Scan# 1150

Delta R.T. 0.02 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

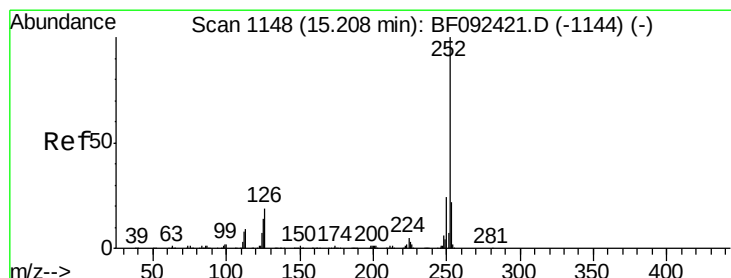
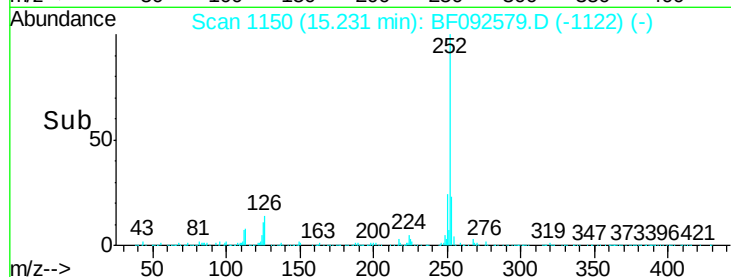
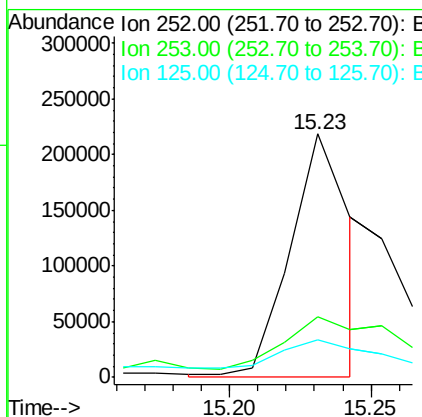
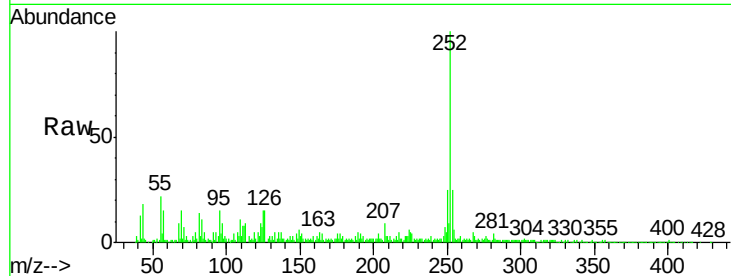
ClientSampled :

B-3RE

Tot Ion:	252	Resp:	320814
Ion Ratio	Lower	Upper	
252	100		
253	25.1	18.2	27.4
125	15.4	9.8	14.6#

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM



#88

Benzo(k)fluoranthene

Concen: 13.02 ng m

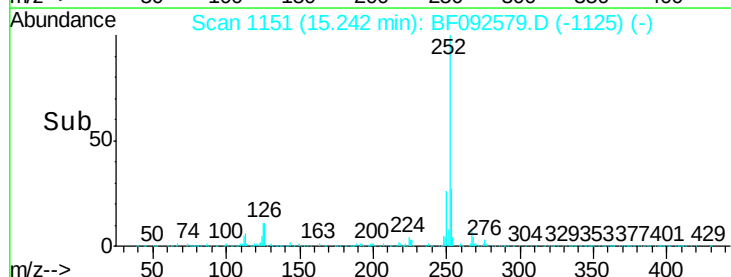
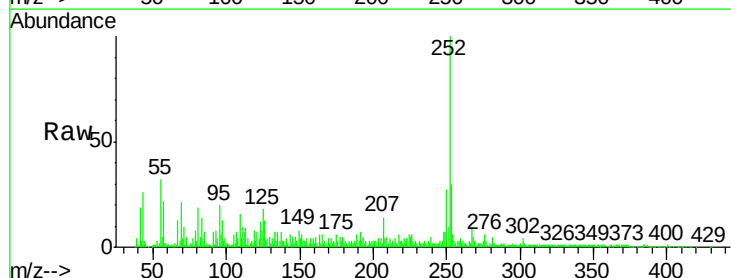
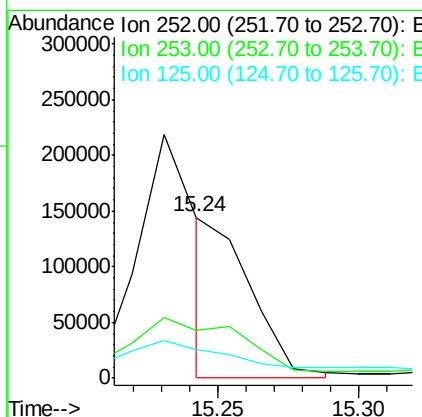
RT: 15.24 min Scan# 1151

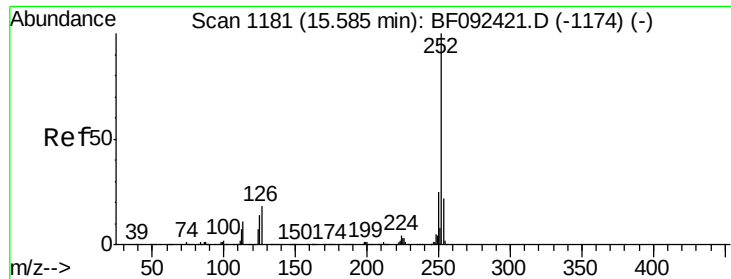
Delta R.T. -0.00 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Tgt Ion:	252	Resp:	135376
Ion Ratio	Lower	Upper	
252	100		
253	29.9	18.5	27.7#
125	17.6	8.9	13.3#





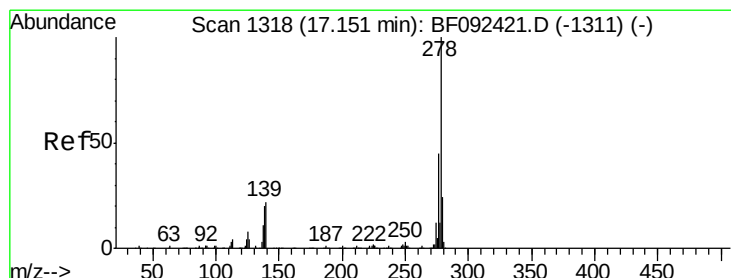
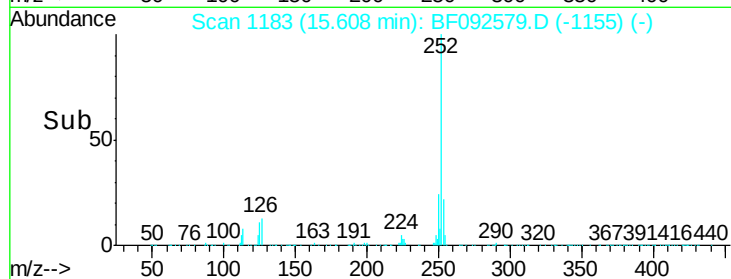
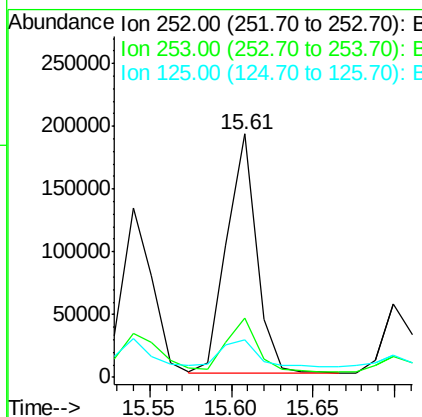
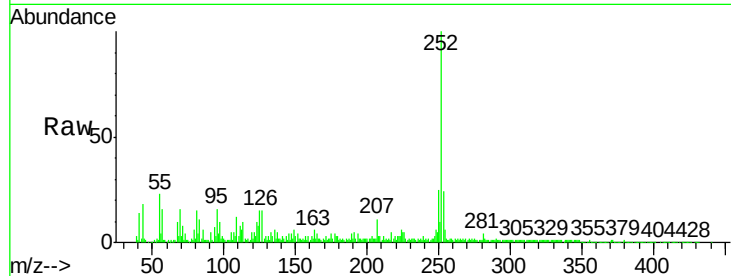
#89
Benzo(a)pyrene
Concen: 22.82 ng
RT: 15.61 min Scan# 1183
Delta R.T. 0.02 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Instrument :
BNA_F
ClientSampled :
B-3RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.2
125	15.5	10.0	15.0

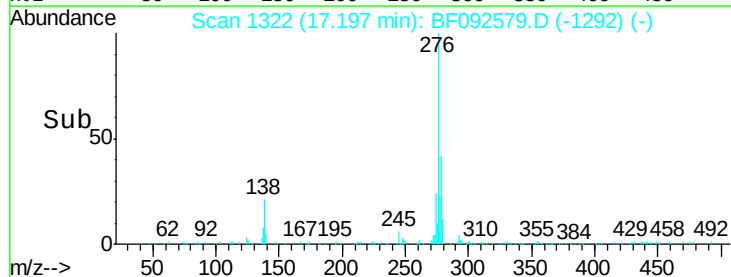
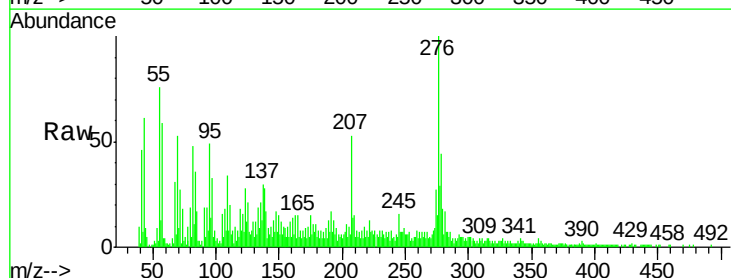
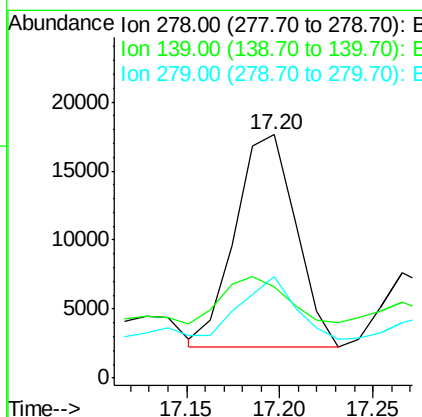
Manual Integrations
APPROVED

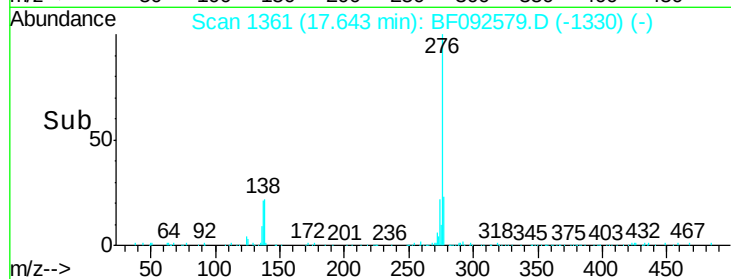
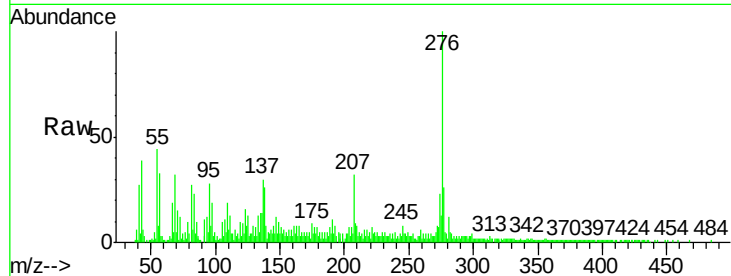
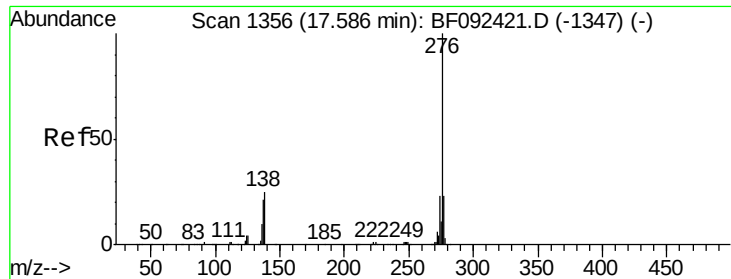
mohammad
1/27/2017 5:32:54 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.05 ng
RT: 17.20 min Scan# 1322
Delta R.T. 0.05 min
Lab File: BF092579.D
Acq: 27 Jan 2017 16:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	37.3	14.8	22.2
279	41.7	19.8	29.6





#91

Benzo(a,h,i)perylene

Concen: 15.76 ng

RT: 17.64 min Scan# 1361

Delta R.T. 0.06 min

Lab File: BF092579.D

Acq: 27 Jan 2017 16:06

Instrument :

BNA_F

ClientSampleId :

B-3RE

Tot Ion:	276	Resp:	136347
Ion Ratio	Lower	Upper	
276	100		
277	25.9	19.2	28.8
138	26.3	16.0	24.0#

Manual Integrations
APPROVED

mohammad
1/27/2017 5:32:54 PM

