

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093271.D
 Acq On : 1 Mar 2017 4:06
 Operator : SJ/MA
 Sample : I1973-12DL 50X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2DL

Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:07:33 PM

Quant Time: Mar 01 06:31:49 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	113684	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	398265	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	173800	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	289810	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	275693	20.00	ng	-0.05
86) Perylene-d12	15.40	264	192661	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	12477	1.88	ng	-0.02
7) Phenol-d6	6.48	99	16991	1.99	ng	-0.01
23) Nitrobenzene-d5	7.38	82	10801	1.51	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	2122	1.69	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	21120	2.20	ng	-0.05
78) Terphenyl-d14	12.91	244	19051	1.62	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	8.11	128	247879	12.28	ng	98
37) 2-Methylnaphthalene	8.81	142	85089	6.56	ng	98
51) Acenaphthene	9.88	154	102041	10.04	ng	96
54) Dibenzofuran	10.05	168	162840	11.97	ng	92
57) Fluorene	10.40	166	159723m	15.27	ng	
70) Phenanthrene	11.36	178	1280583	77.13	ng	99
71) Anthracene	11.41	178	438883	26.32	ng	97
72) Carbazole	11.57	167	128684	8.07	ng	97
74) Fluoranthene	12.55	202	1230018	71.82	ng	97
77) Pyrene	12.77	202	994072	48.18	ng	99
80) Benzo(a)anthracene	13.96	228	517638	30.70	ng	99
82) Chrysene	14.00	228	341328	21.62	ng	98
85) Indeno(1,2,3-cd)pyrene	16.79	276	122323	10.00	ng	98
87) Benzo(b)fluoranthene	14.99	252	320388m	25.27	ng	
88) Benzo(k)fluoranthene	15.00	252	157332m	14.37	ng	
89) Benzo(a)pyrene	15.35	252	243502	22.20	ng	97
90) Dibenzo(a,h)anthracene	16.79	278	30390	3.43	ng	# 78
91) Benzo(g,h,i)perylene	17.21	276	104791	11.70	ng	# 86

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

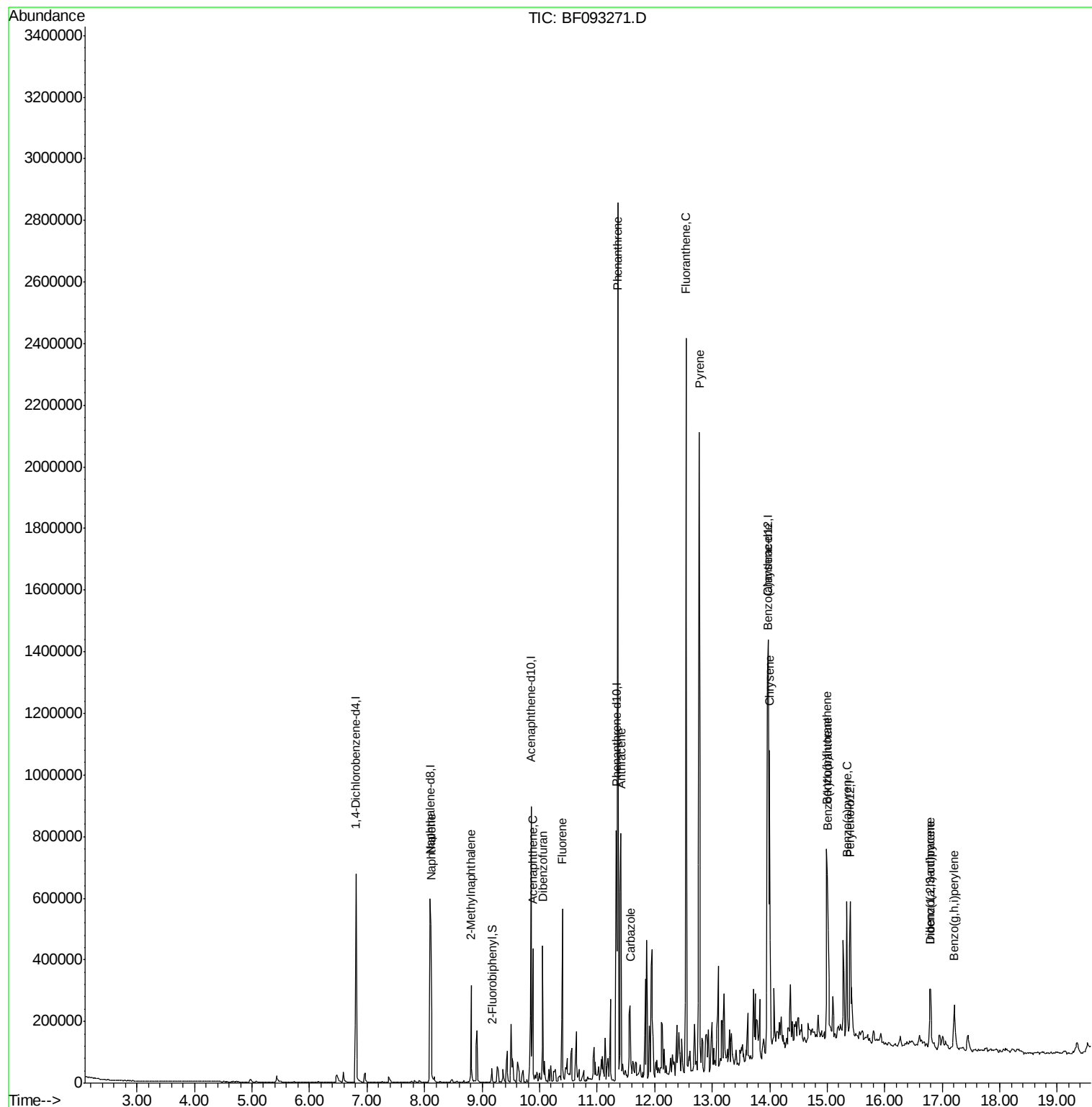
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093271.D
Acq On : 1 Mar 2017 4:06
Operator : SJ/MA
Sample : I1973-12DL 50X
Misc :
ALS Vial : 32 Sample Multiplier: 1

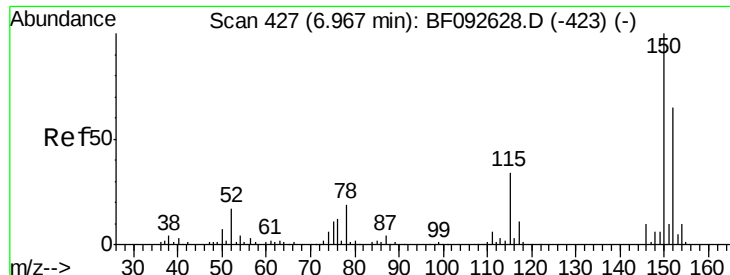
Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Manual Integrations
APPROVED

mohammad
3/1/2017 4:07:33 PM

Quant Time: Mar 01 06:31:49 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration





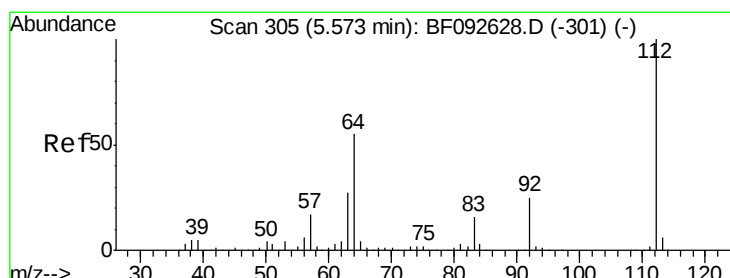
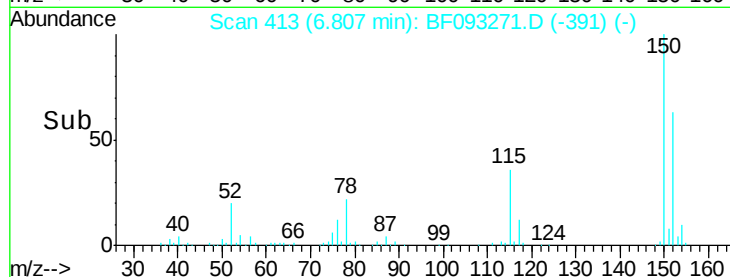
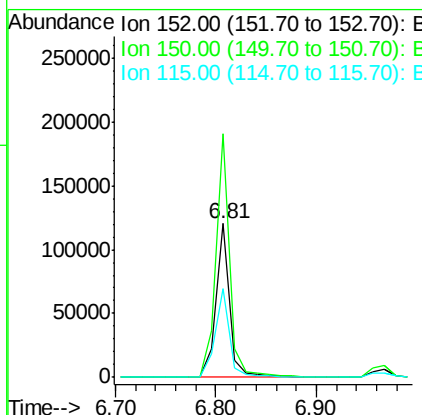
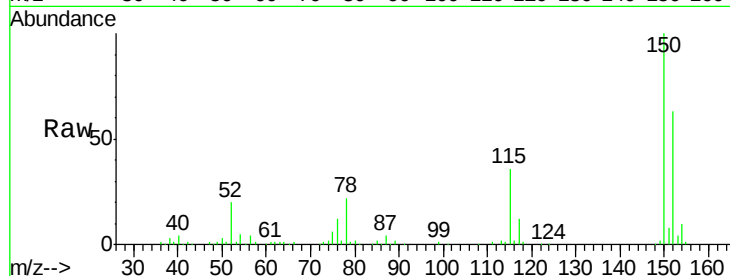
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.81 min Scan# 413
 Delta R.T. -0.05 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.6	124.9	187.3
115	57.7	46.0	69.0

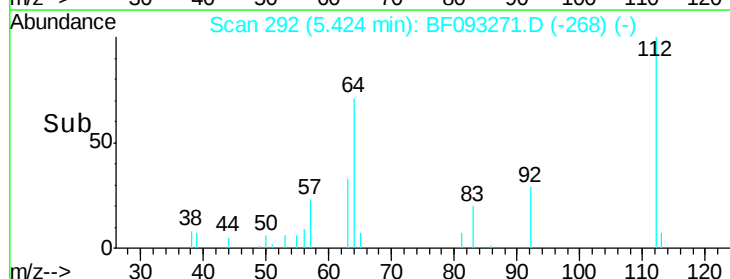
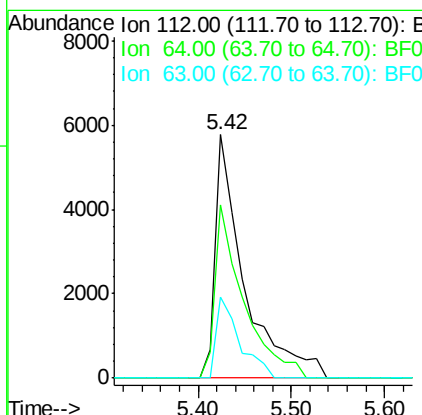
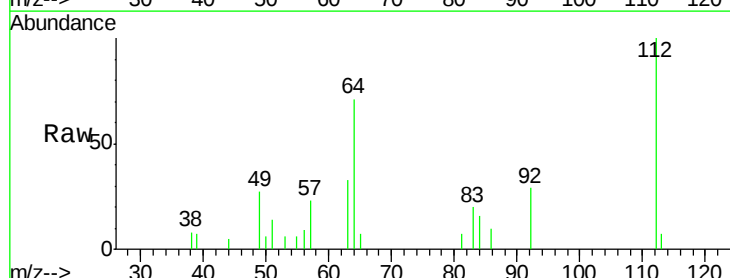
Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:07:33 PM



#5
 2-Fluorophenol
 Concen: 1.88 ng
 RT: 5.42 min Scan# 292
 Delta R.T. -0.02 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.3	46.1	69.1#
63	33.2	23.8	35.6





#7

Phenol-d6

Concen: 1.99 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Instrument :

BNA_F

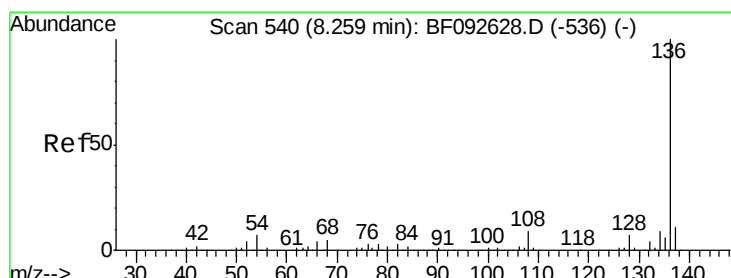
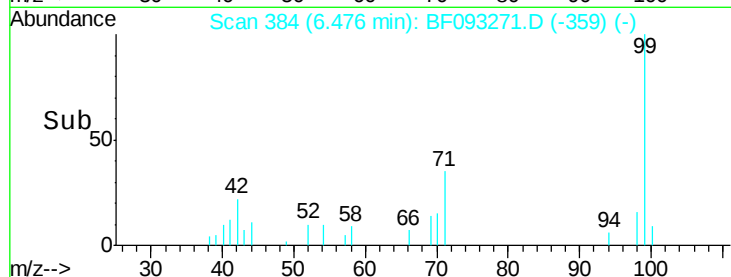
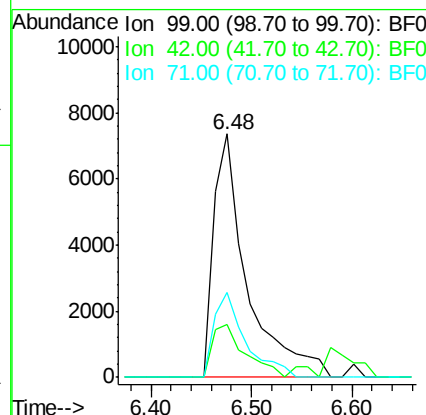
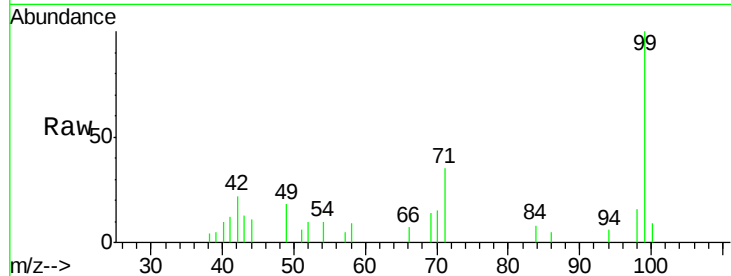
ClientSampleId :

E2-B1-B2-BASE-2DL

Tgt Ion:	99	Resp:	16991
Ion Ratio	Lower	Upper	
99	100		
42	21.6	15.6	23.4
71	35.0	27.5	41.3

Manual Integrations
APPROVED

mohammad
3/1/2017 4:07:33 PM



#21

Naphthalene-d8

Concen: 20.00 ng

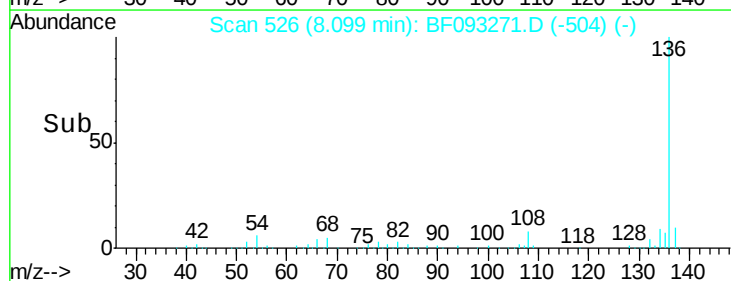
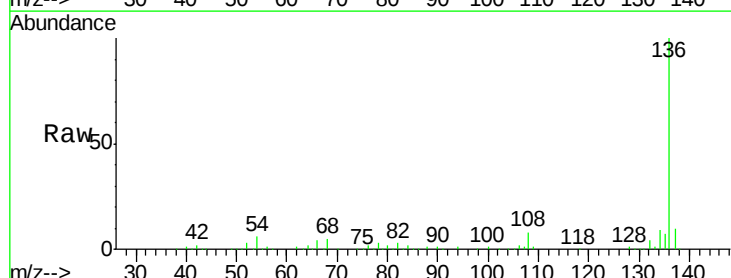
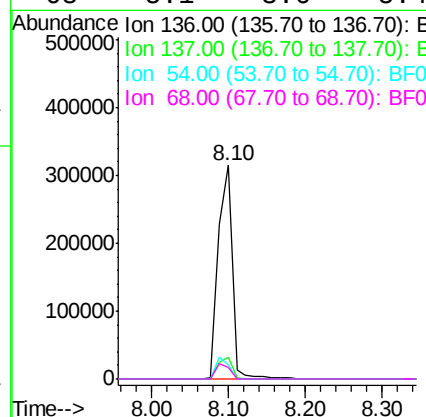
RT: 8.10 min Scan# 526

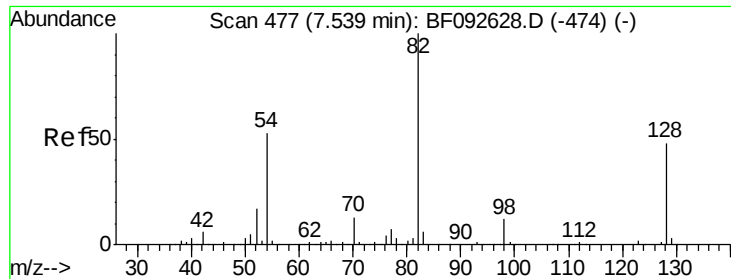
Delta R.T. -0.05 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Tgt Ion:	136	Resp:	398265
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.4	12.6
54	6.4	4.5	6.7
68	5.1	3.6	5.4





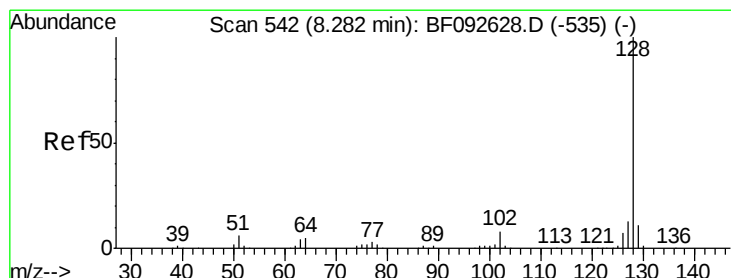
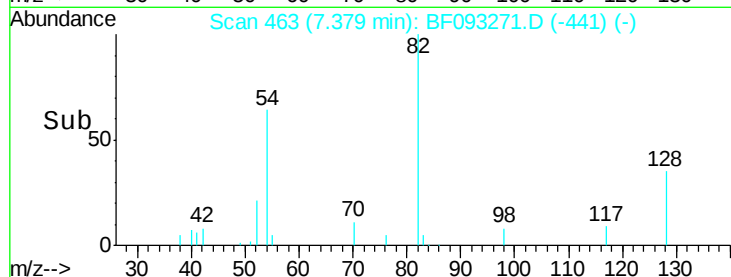
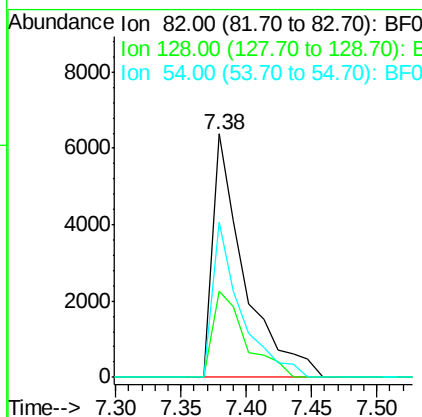
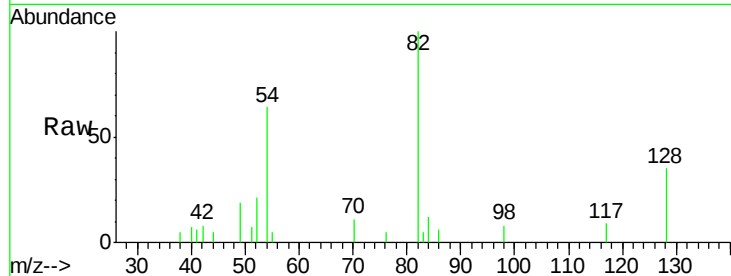
#23
Nitrobenzene-d5
Concen: 1.51 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.4	34.6	52.0
54	63.8	39.5	59.3

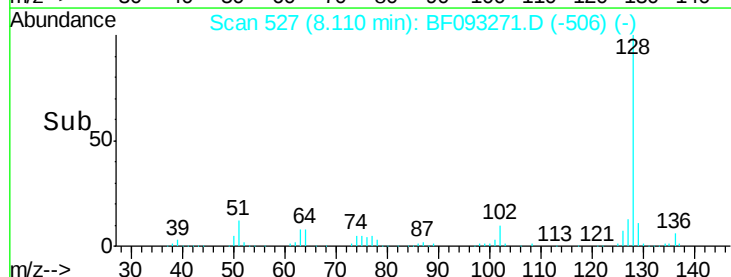
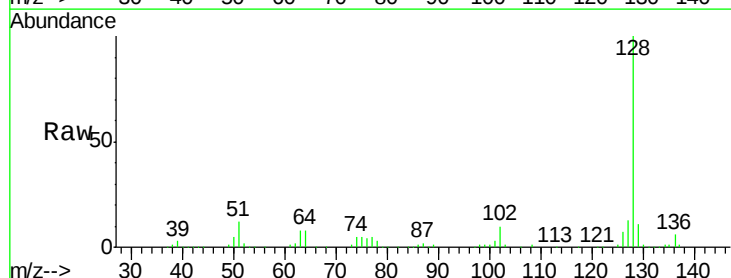
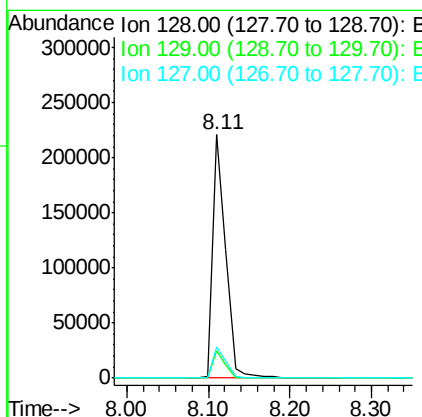
Manual Integrations
APPROVED

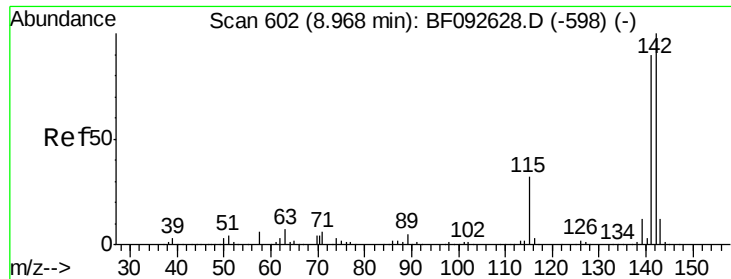
mohammad
3/1/2017 4:07:33 PM



#31
Naphthalene
Concen: 12.28 ng
RT: 8.11 min Scan# 527
Delta R.T. -0.06 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.5	14.3
127	12.9	10.8	16.2





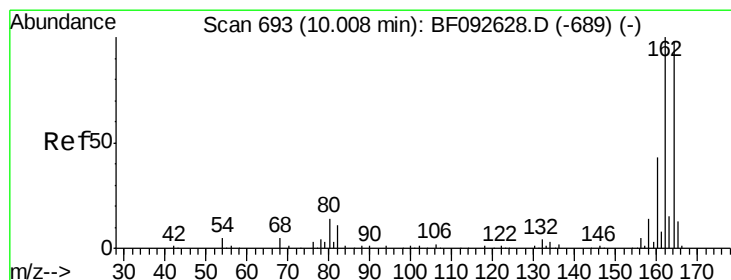
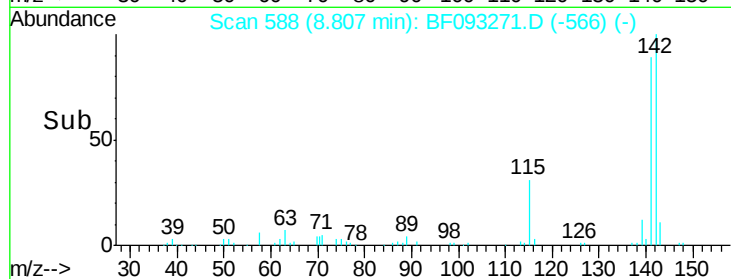
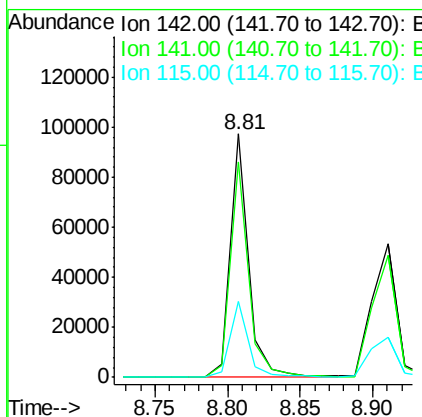
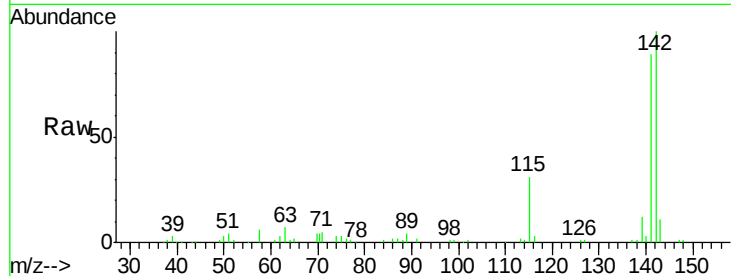
#37
 2-Methylnaphthalene
 Concen: 6.56 ng
 RT: 8.81 min Scan# 588
 Delta R.T. -0.05 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.6
115	31.1	28.3	42.5

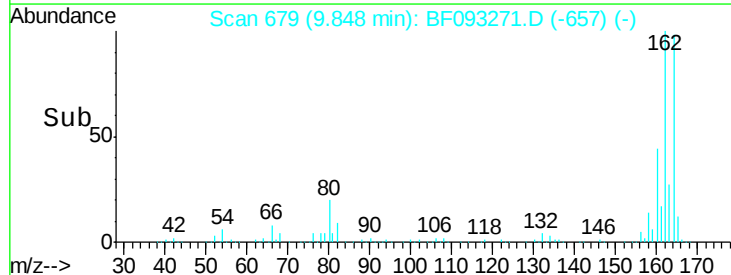
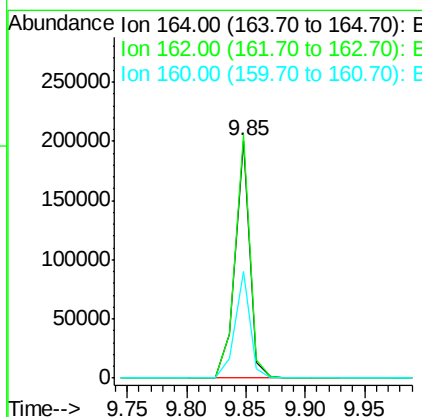
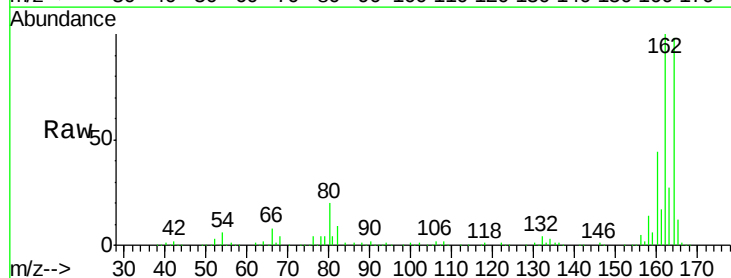
Manual Integrations
 APPROVED

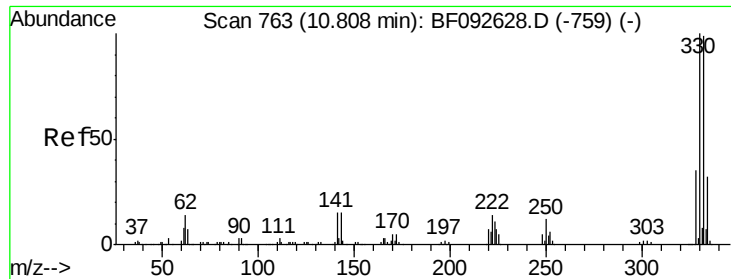
mohammad
 3/1/2017 4:07:33 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 679
 Delta R.T. -0.05 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.2	120.2
160	44.7	36.9	55.3





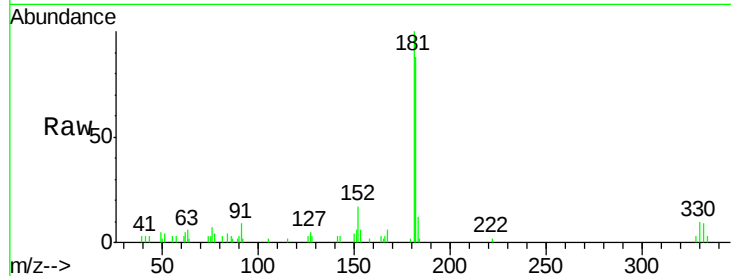
#41
 2,4,6-Tribromophenol
 Concen: 1.69 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.03 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2DL

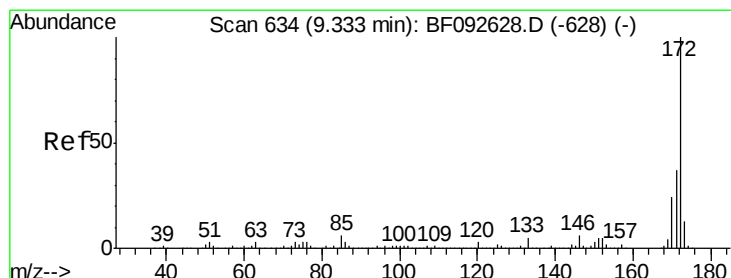
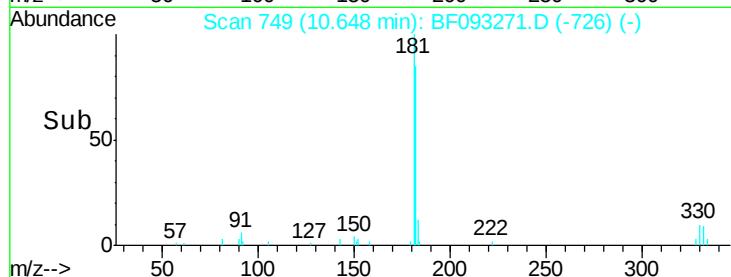
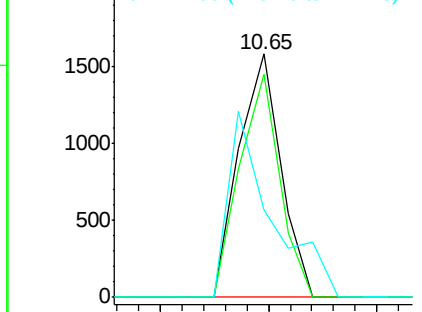
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	2122		
332	87.6	77.4	116.2	
141	79.5	34.1	51.1#	

Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:07:33 PM

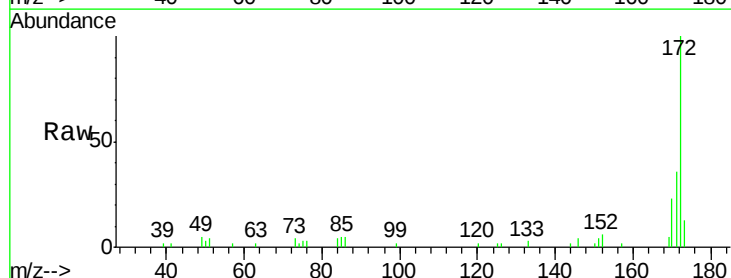


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

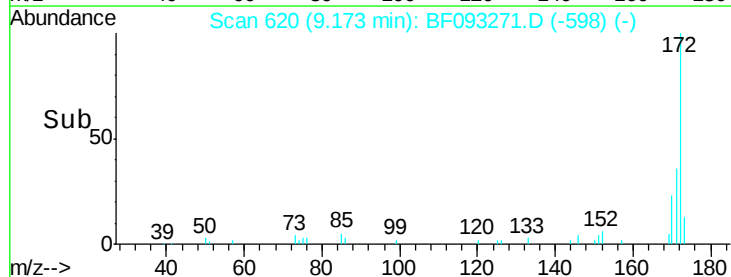
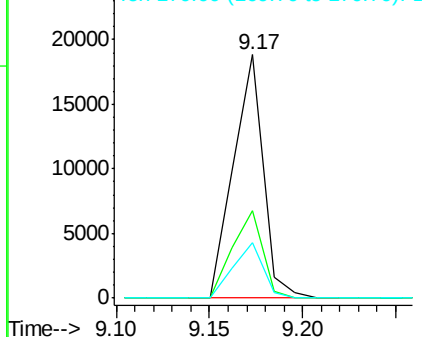


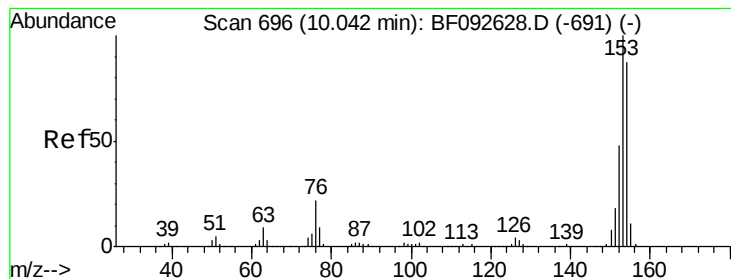
#44
 2-Fluorobiphenyl
 Concen: 2.20 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	21120		
171	36.1	29.4	44.0	
170	23.0	20.2	30.4	



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





#51

Acenaphthene

Concen: 10.04 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093271.D

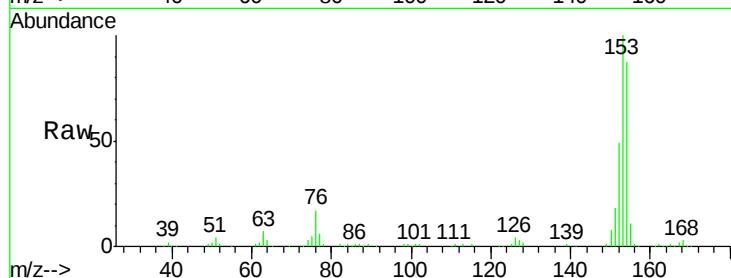
Acq: 1 Mar 2017 4:06

Instrument :

BNA_F

ClientSampleId :

E2-B1-B2-BASE-2DL



Tgt Ion:154 Resp: 102041

Ion Ratio Lower Upper

154 100

153 114.4 88.6 133.0

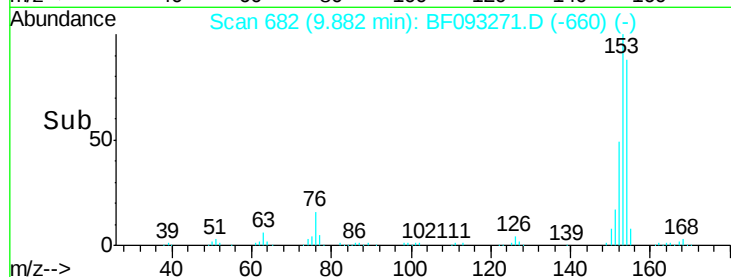
152 56.3 41.6 62.4

Manual Integrations

APPROVED

mohammad

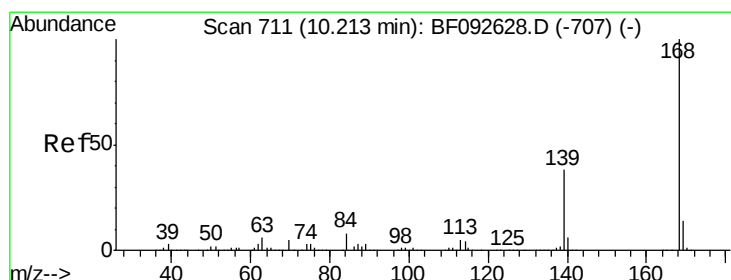
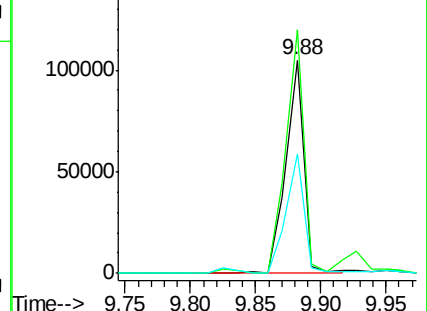
3/1/2017 4:07:33 PM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 11.97 ng

RT: 10.05 min Scan# 697

Delta R.T. -0.05 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

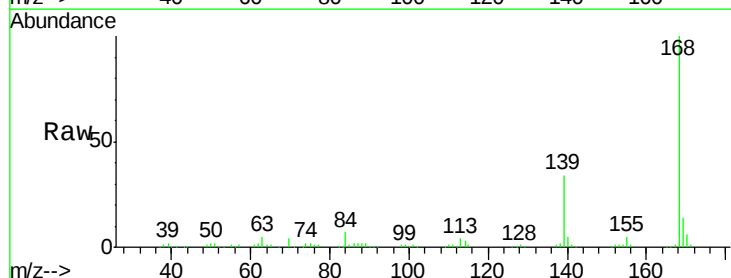
Tgt Ion:168 Resp: 162840

Ion Ratio Lower Upper

168 100

139 34.1 32.6 49.0

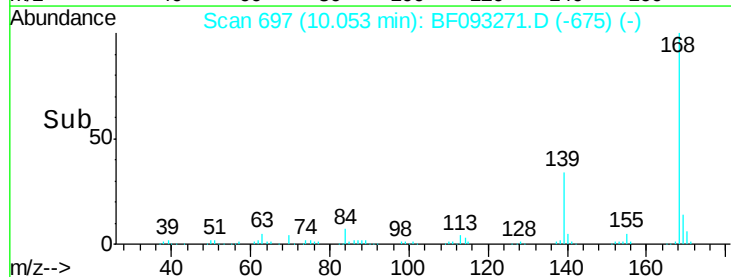
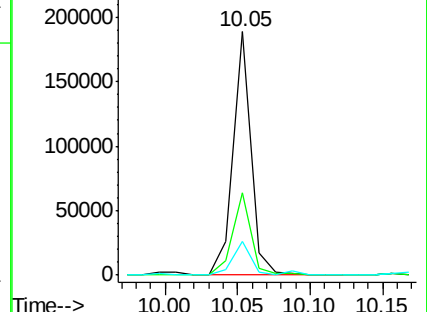
169 13.9 11.3 16.9

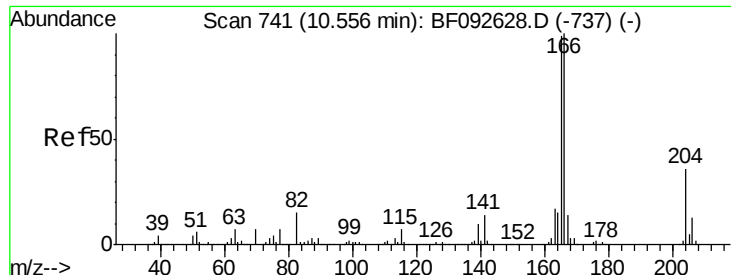


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





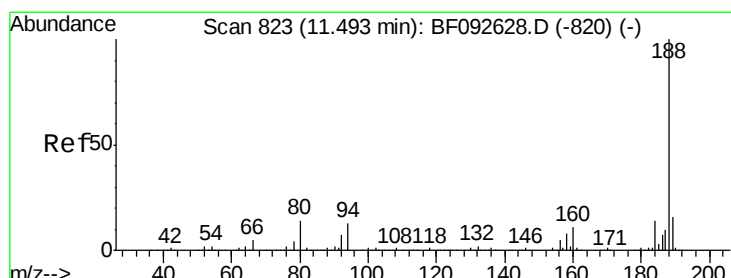
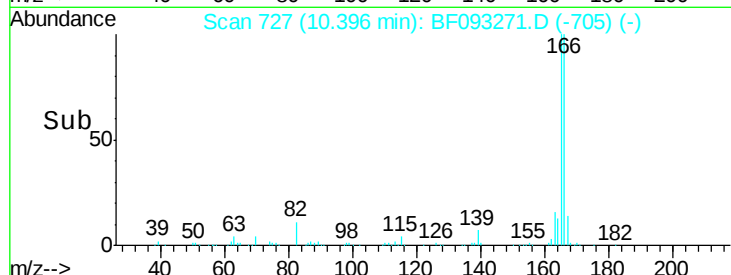
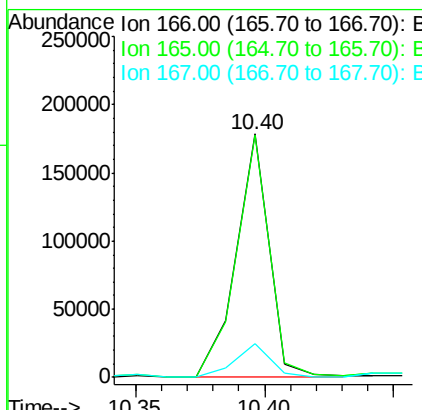
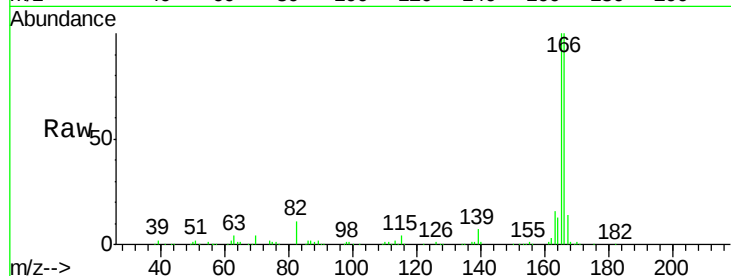
#57
Fluorene
Concen: 15.27 ng m
RT: 10.40 min Scan# 727
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	159723		
165	99.7	77.8	116.8	
167	14.0	10.8	16.2	

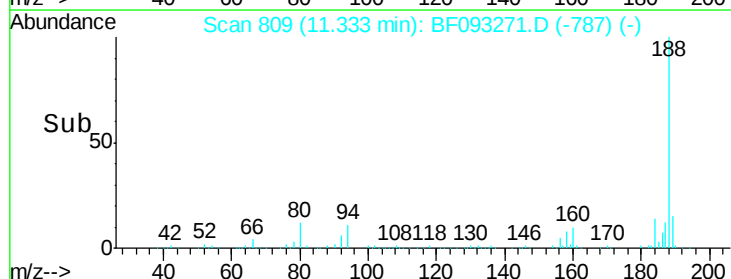
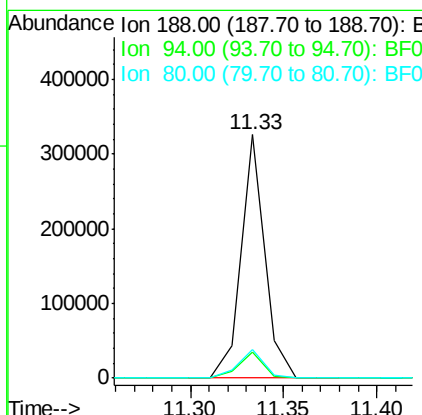
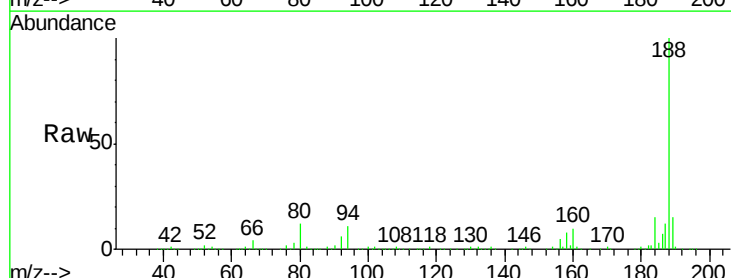
Manual Integrations
APPROVED

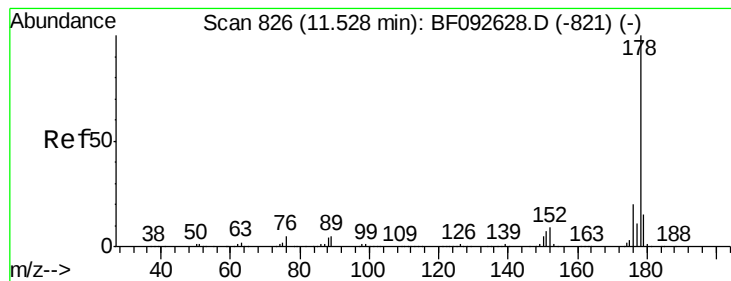
mohammad
3/1/2017 4:07:33 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.33 min Scan# 809
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	289810		
94	10.8	10.0	15.0	
80	11.9	11.2	16.8	





#70

Phenanthrene

Concen: 77.13 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Instrument :

BNA_F

ClientSampleId :

E2-B1-B2-BASE-2DL

Tgt Ion:178 Resp: 1280583

Ion Ratio Lower Upper

178 100

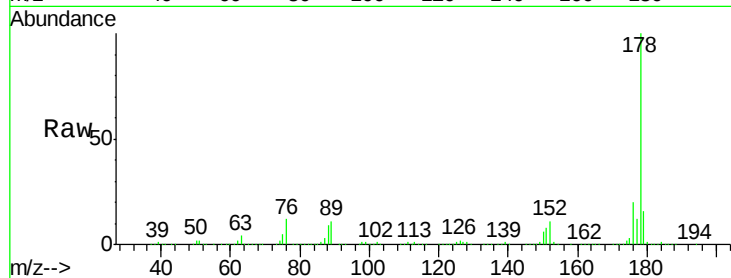
176 19.8 16.6 25.0

179 15.8 12.8 19.2

Manual Integrations
APPROVED

mohammad

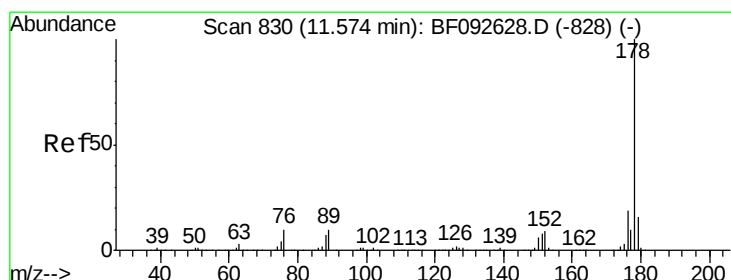
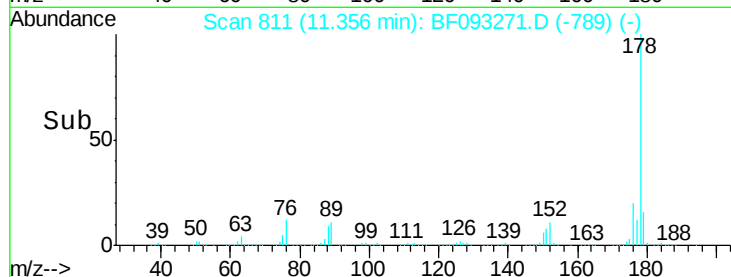
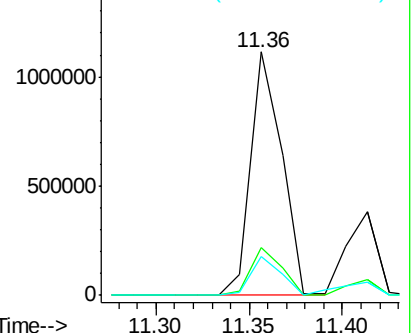
3/1/2017 4:07:33 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 26.32 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.05 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Tgt Ion:178 Resp: 438883

Ion Ratio Lower Upper

178 100

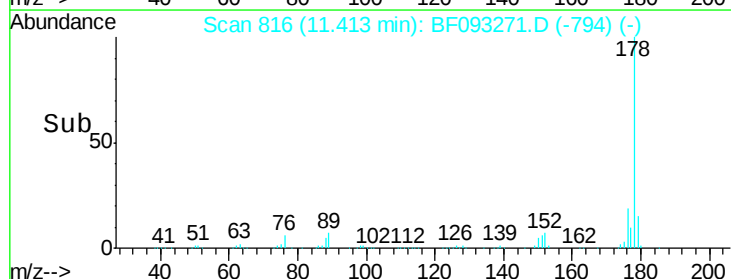
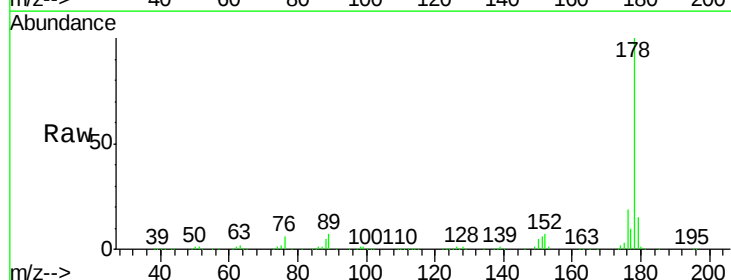
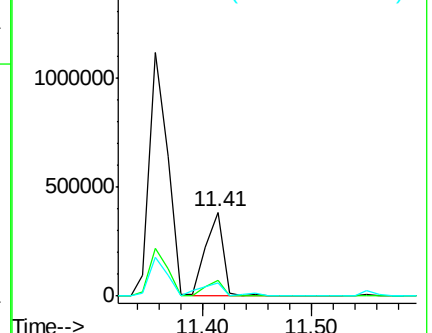
176 18.8 15.9 23.9

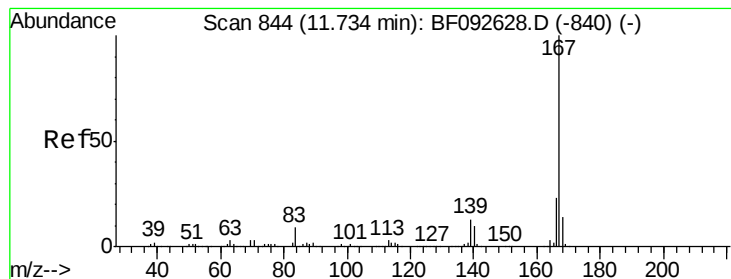
179 15.1 13.2 19.8

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 8.07 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Instrument :

BNA_F

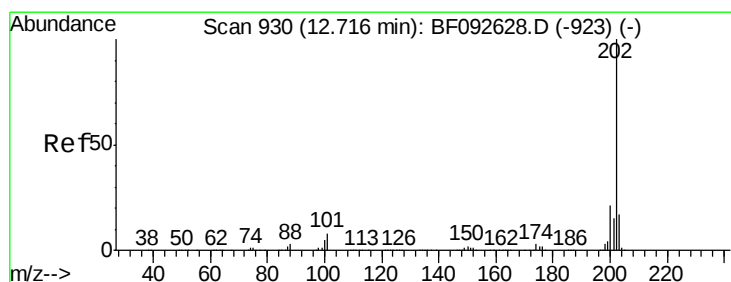
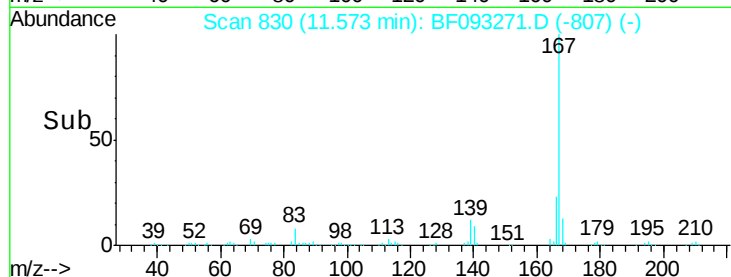
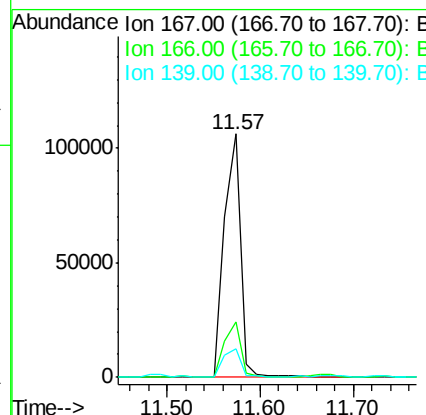
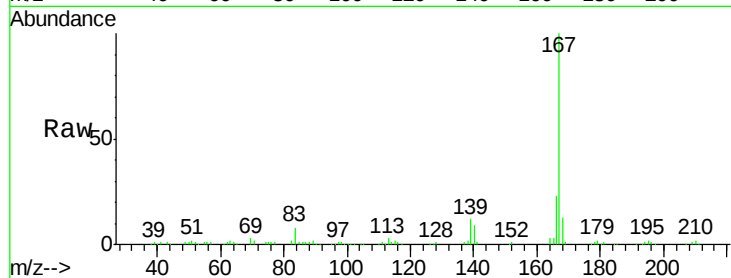
ClientSampleId :

E2-B1-B2-BASE-2DL

Tgt Ion:	167	Resp:	128684
Ion Ratio	Lower	Upper	
167	100		
166	22.6	18.2	27.2
139	11.7	11.4	17.2

Manual Integrations
APPROVED

mohammad
3/1/2017 4:07:33 PM



#74

Fluoranthene

Concen: 71.82 ng

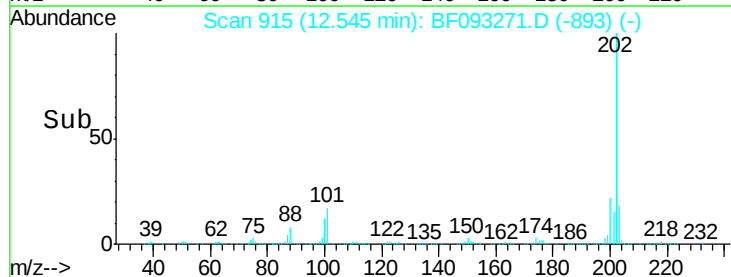
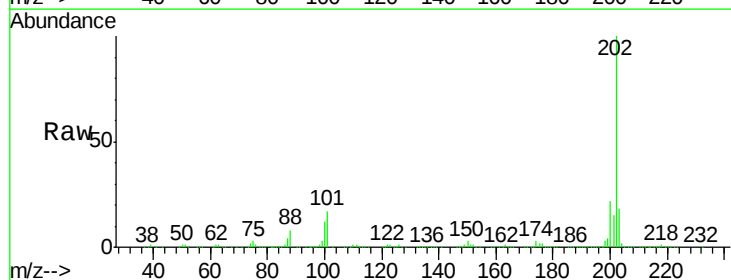
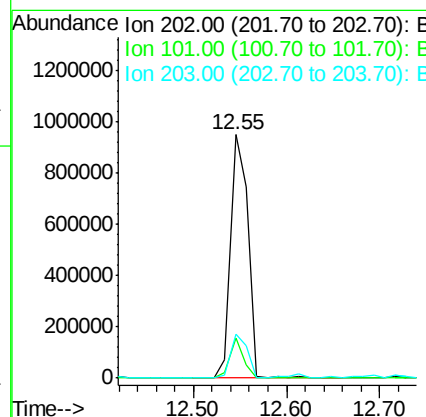
RT: 12.55 min Scan# 915

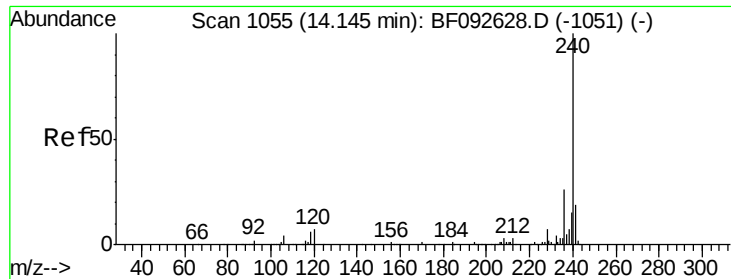
Delta R.T. -0.05 min

Lab File: BF093271.D

Acq: 1 Mar 2017 4:06

Tgt Ion:	202	Resp:	1230018
Ion Ratio	Lower	Upper	
202	100		
101	16.7	0.0	34.6
203	18.0	0.0	38.7





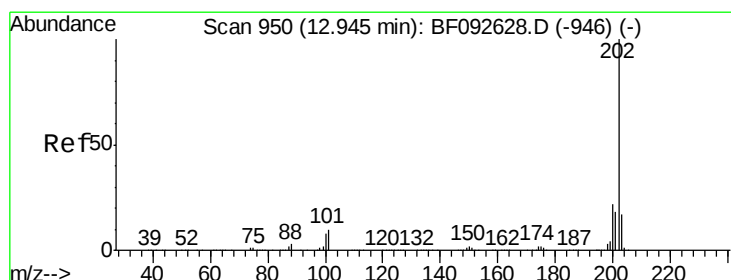
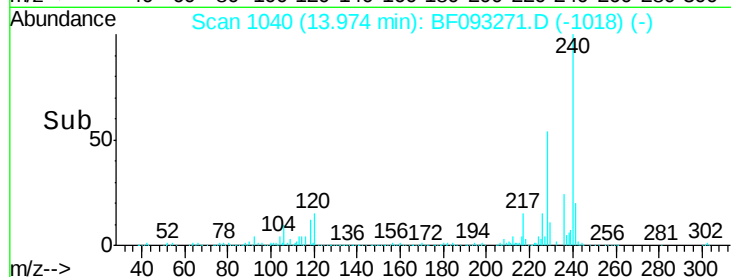
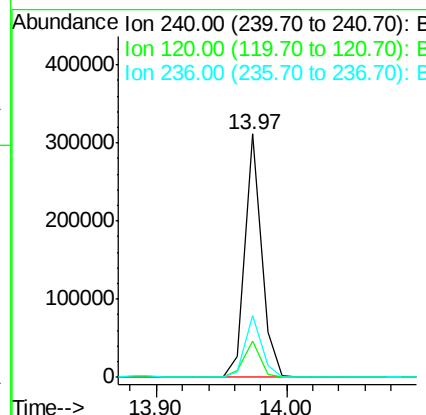
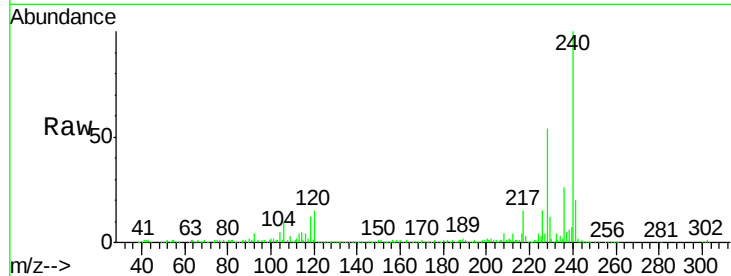
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.97 min Scan# 1040
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	275693		
120	14.8	12.9	19.3	
236	25.7	20.9	31.3	

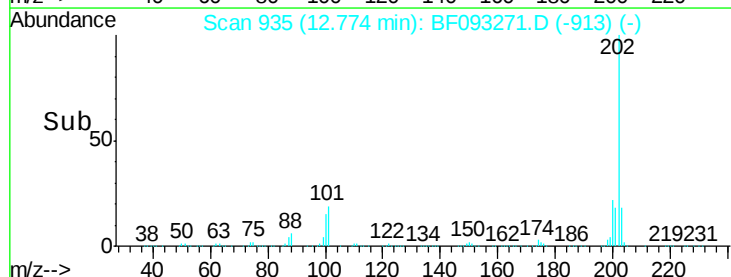
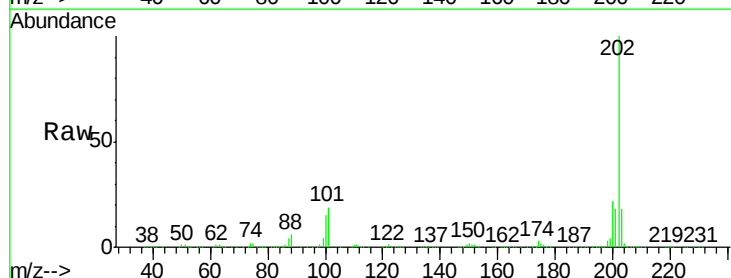
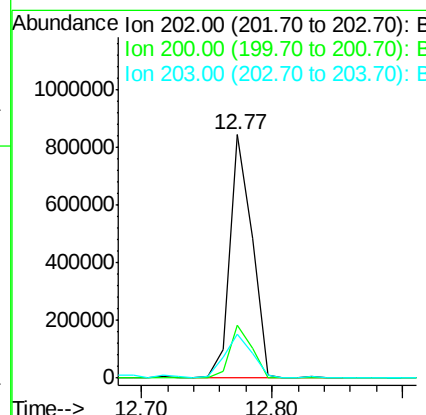
Manual Integrations
APPROVED

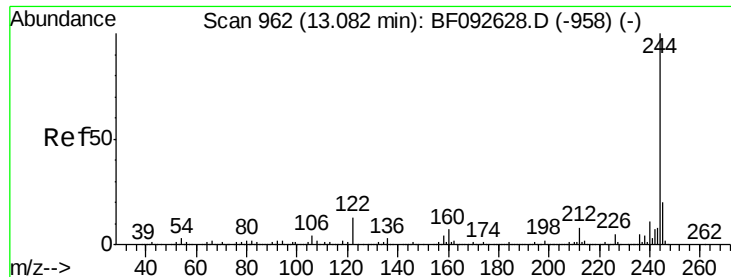
mohammad
3/1/2017 4:07:33 PM



#77
Pyrene
Concen: 48.18 ng
RT: 12.77 min Scan# 935
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	994072		
200	21.7	17.7	26.5	
203	18.2	14.7	22.1	





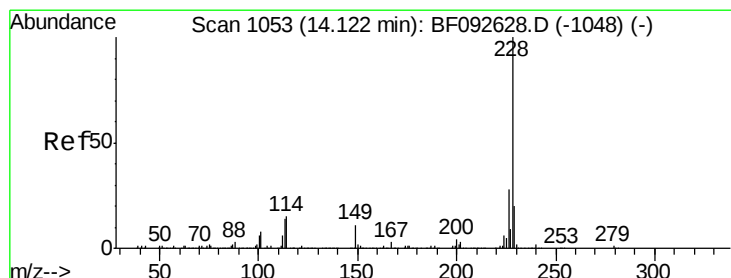
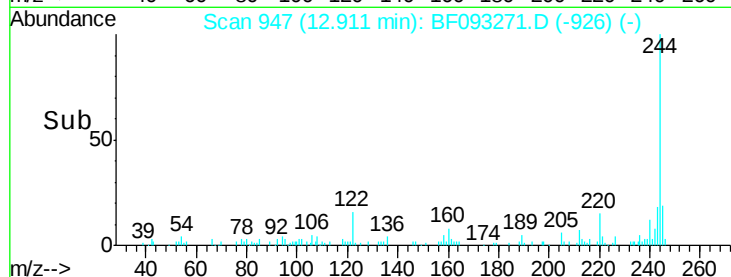
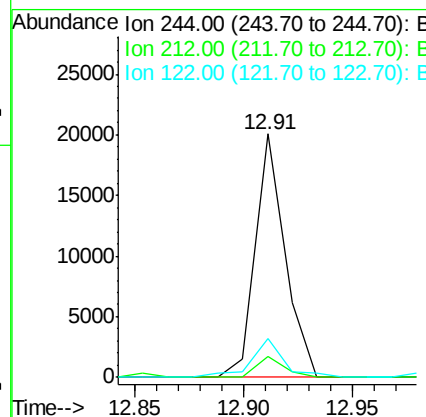
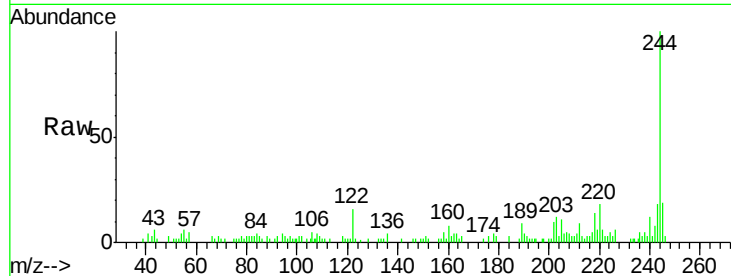
#78
 Terphenyl-d14
 Concen: 1.62 ng
 RT: 12.91 min Scan# 947
 Delta R.T. -0.06 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.2
122	15.9	11.4	17.2

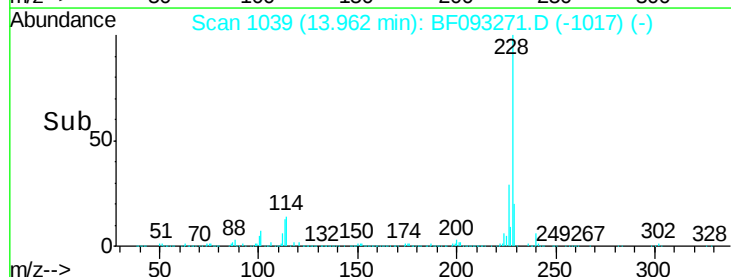
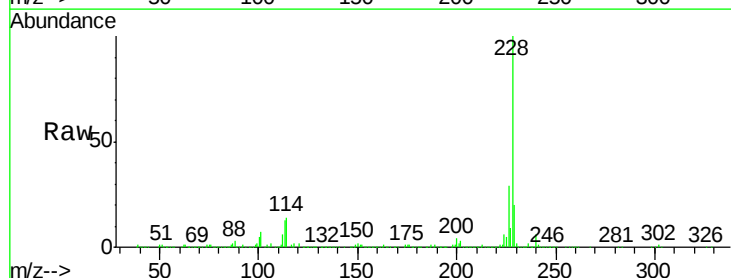
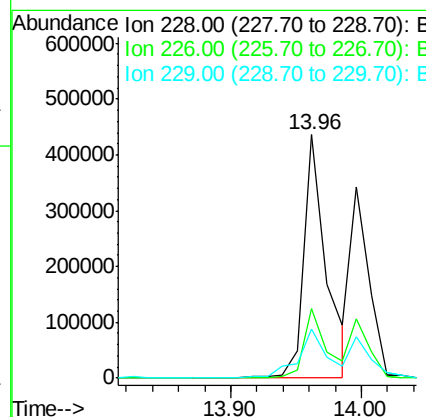
Manual Integrations
 APPROVED

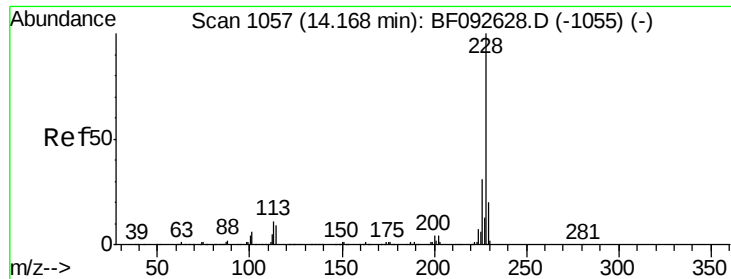
mohammad
 3/1/2017 4:07:33 PM



#80
 Benzo(a)anthracene
 Concen: 30.70 ng
 RT: 13.96 min Scan# 1039
 Delta R.T. -0.05 min
 Lab File: BF093271.D
 Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.4	33.6
229	20.4	16.2	24.4





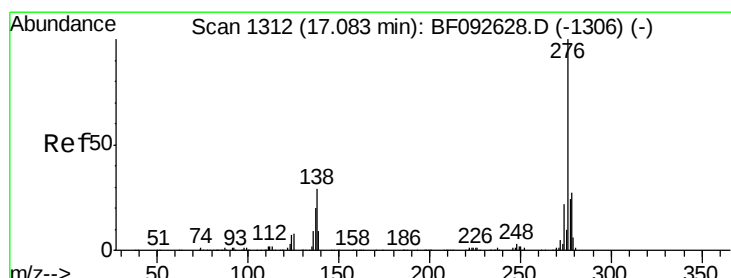
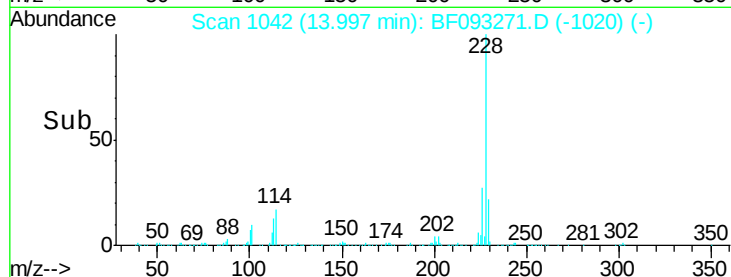
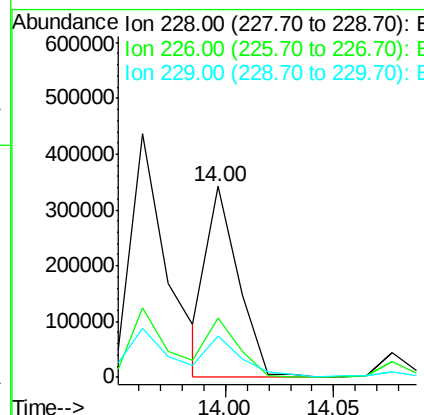
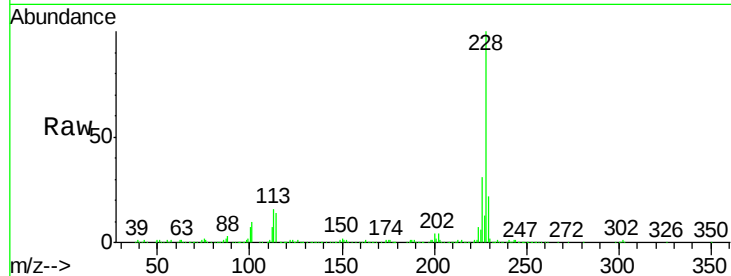
#82
Chrysene
Concen: 21.62 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.4	38.0
229	21.8	16.2	24.2

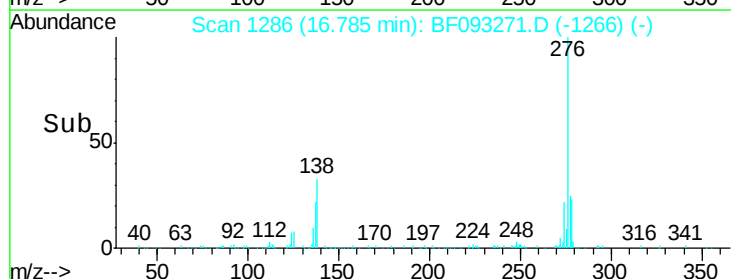
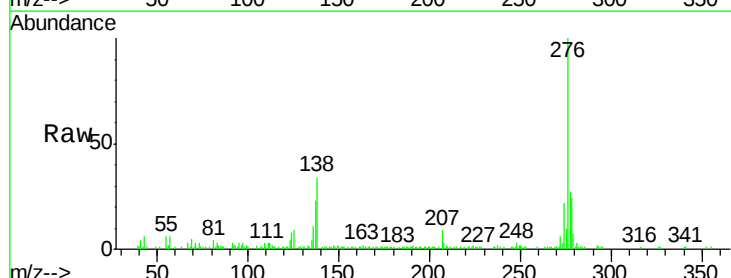
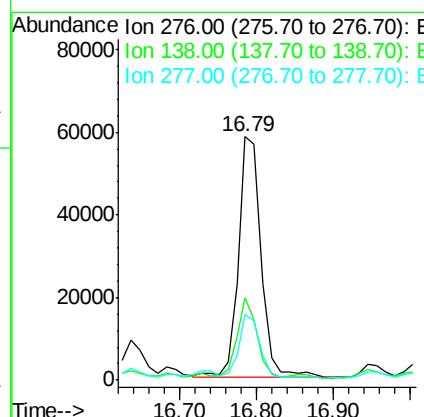
Manual Integrations
APPROVED

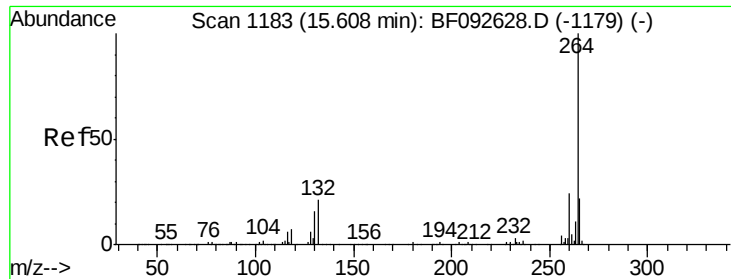
mohammad
3/1/2017 4:07:33 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 10.00 ng
RT: 16.79 min Scan# 1286
Delta R.T. -0.07 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.1	21.8	32.6
277	24.5	20.2	30.4





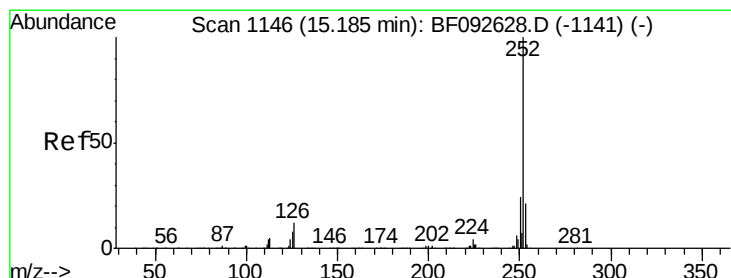
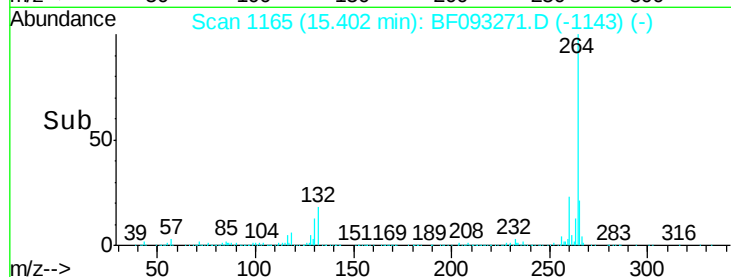
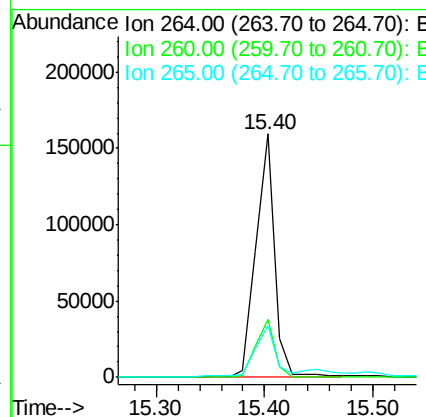
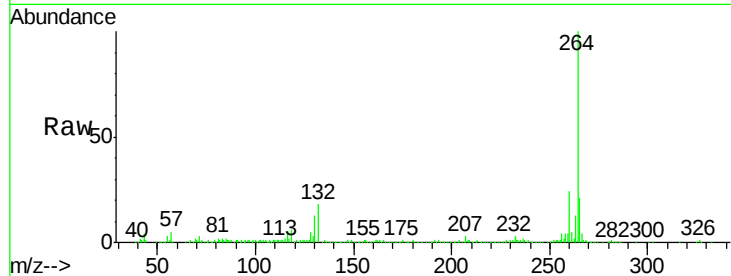
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.4	17.4	26.0

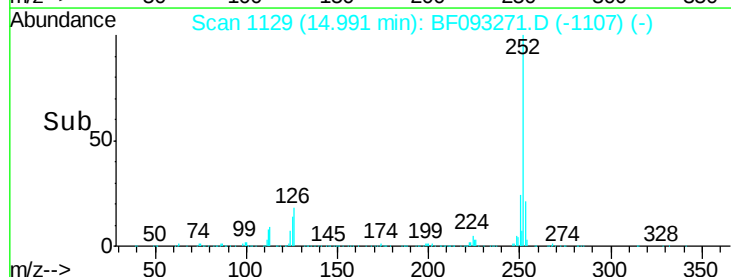
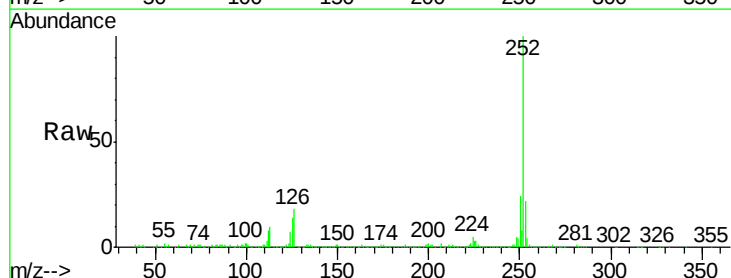
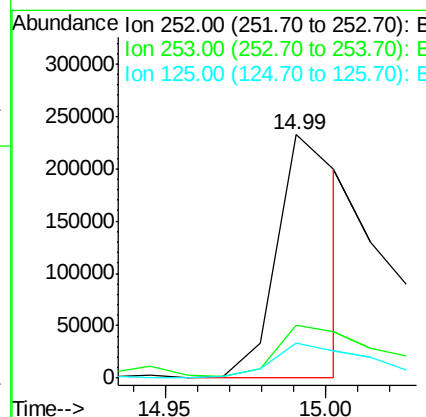
Manual Integrations
APPROVED

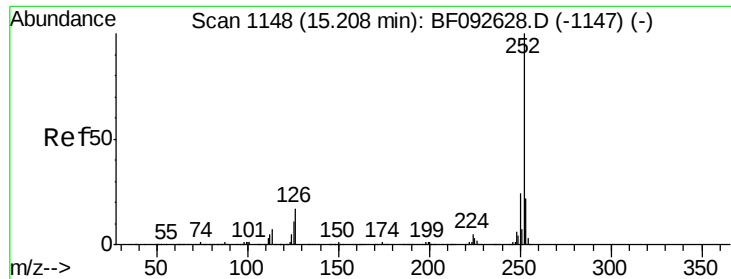
mohammad
3/1/2017 4:07:33 PM



#87
Benzo(b)fluoranthene
Concen: 25.27 ng m
RT: 14.99 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.2	27.4
125	14.3	9.8	14.6





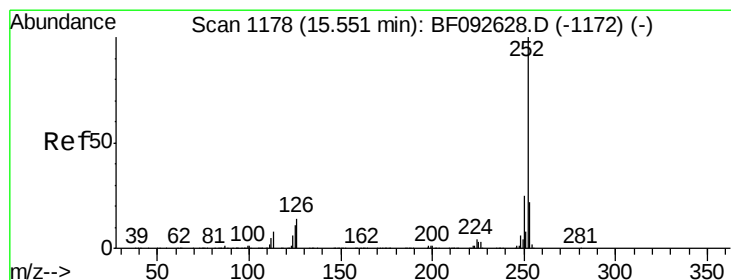
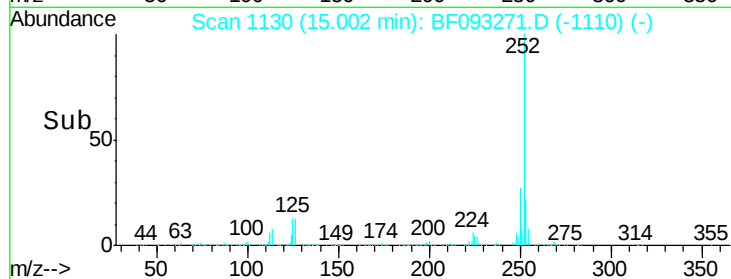
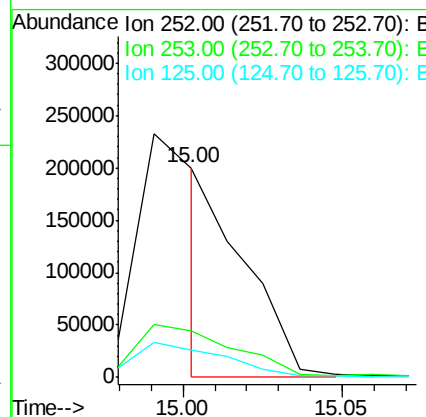
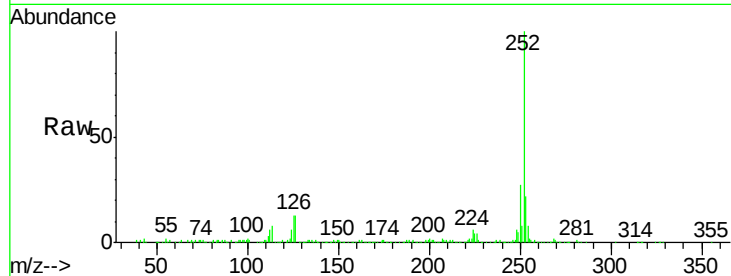
#88
Benzo(k)fluoranthene
Concen: 14.37 ng m
RT: 15.00 min Scan# 1130
Delta R.T. -0.07 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.5	27.7
125	13.4	8.9	13.3

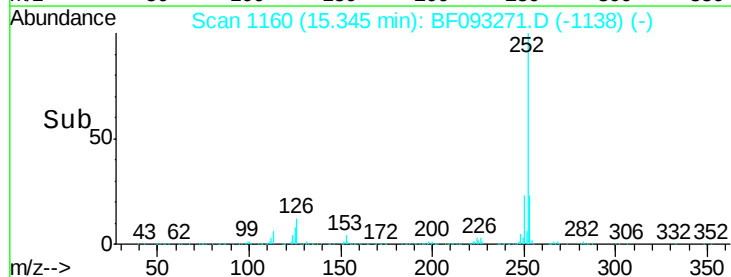
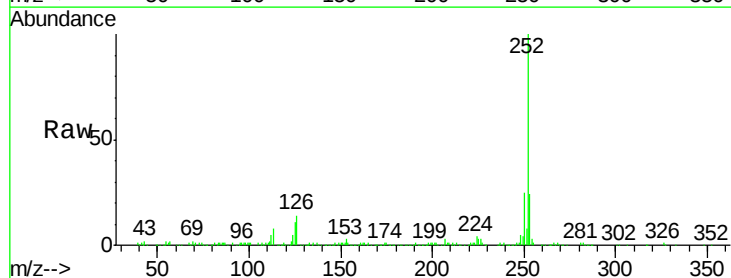
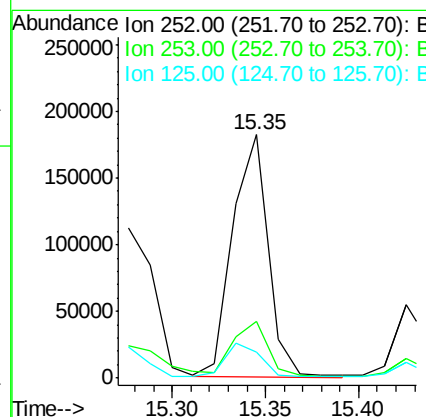
Manual Integrations
APPROVED

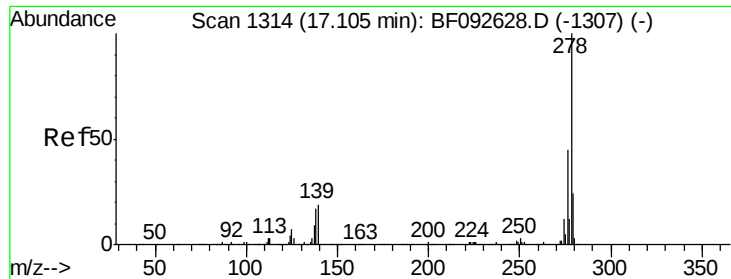
mohammad
3/1/2017 4:07:33 PM



#89
Benzo(a)pyrene
Concen: 22.20 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	10.8	10.0	15.0





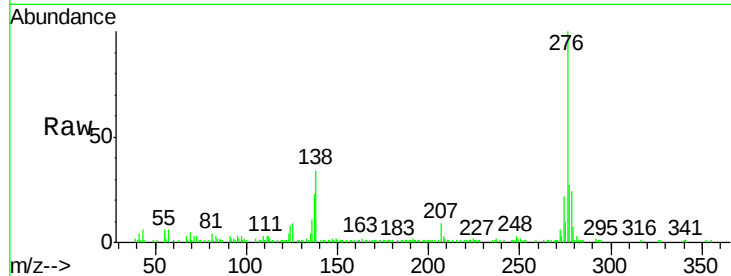
#90
Dibenzo(a,h)anthracene
Concen: 3.43 ng
RT: 16.79 min Scan# 1286
Delta R.T. -0.08 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2DL

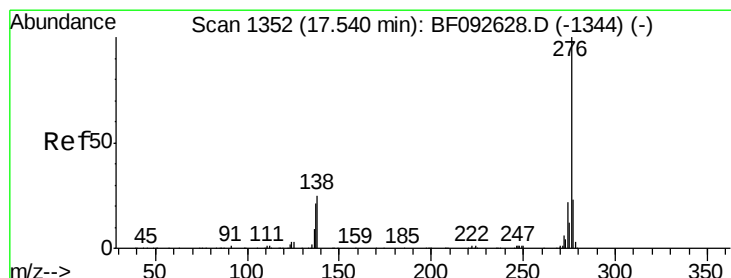
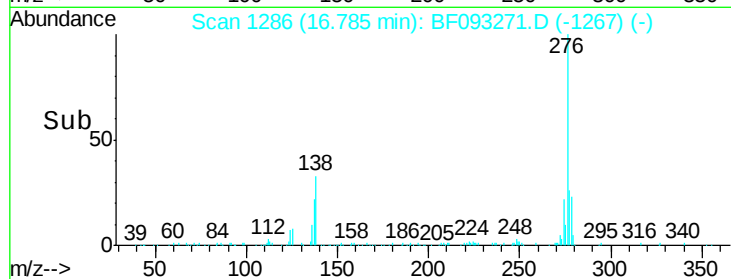
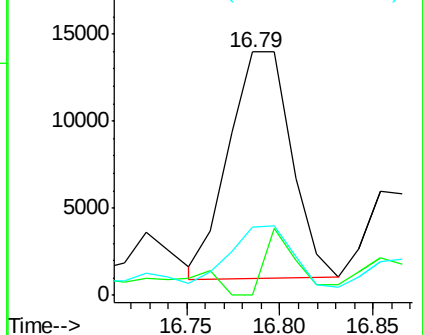
Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	28.0	19.8	29.6

Manual Integrations
APPROVED

mohammad
3/1/2017 4:07:33 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.70 ng
RT: 17.21 min Scan# 1323
Delta R.T. -0.08 min
Lab File: BF093271.D
Acq: 1 Mar 2017 4:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	19.2	28.8
138	30.8	16.0	24.0#

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

