

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093268.D
 Acq On : 1 Mar 2017 2:42
 Operator : SJ/MA
 Sample : I1997-08DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:06:58 PM

Quant Time: Mar 01 03:21:51 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	127156	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	433568	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	173452	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	304008	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	266775	20.00	ng	-0.05
86) Perylene-d12	15.40	264	187107	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	376470	50.79	ng	-0.03
7) Phenol-d6	6.46	99	469354	49.22	ng	-0.02
23) Nitrobenzene-d5	7.38	82	288559	37.06	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	61369	48.92	ng	-0.05
44) 2-Fluorobiphenyl	9.17	172	457916	47.83	ng	-0.05
78) Terphenyl-d14	12.91	244	367743	32.39	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	8.12	128	53923	2.45	ng	98
48) Acenaphthylene	9.71	152	109745	6.47	ng	98
49) Dimethylphthalate	9.56	163	137591	11.78	ng	97
51) Acenaphthene	9.88	154	23032	2.27	ng	96
57) Fluorene	10.40	166	29102m	2.79	ng	
70) Phenanthrene	11.36	178	447667	25.70	ng	98
71) Anthracene	11.41	178	162658	9.30	ng	96
72) Carbazole	11.57	167	58484	3.50	ng	97
74) Fluoranthene	12.55	202	940050	52.32	ng	97
77) Pyrene	12.77	202	968874	48.53	ng	99
80) Benzo(a)anthracene	13.96	228	581485	35.64	ng	97
82) Chrysene	14.00	228	423207m	27.70	ng	
85) Indeno(1,2,3-cd)pyrene	16.80	276	196216	16.58	ng	100
87) Benzo(b)fluoranthene	15.00	252	562256m	45.65	ng	
88) Benzo(k)fluoranthene	15.01	252	124826m	11.74	ng	
89) Benzo(a)pyrene	15.35	252	321294	30.16	ng	99
90) Dibenzo(a,h)anthracene	16.80	278	52513	6.10	ng	# 76
91) Benzo(g,h,i)perylene	17.22	276	188074	21.62	ng	# 92

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

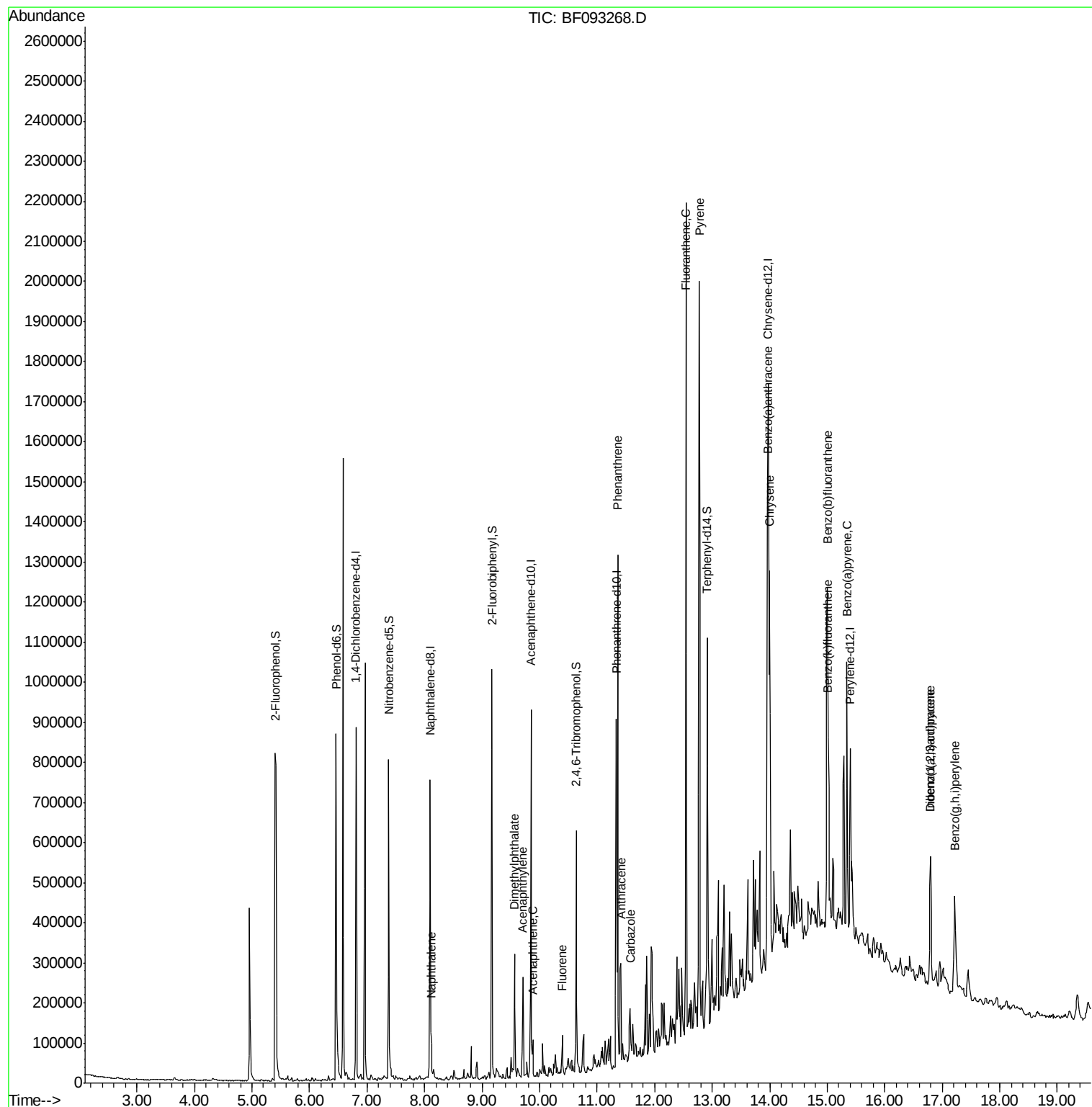
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093268.D
Acq On : 1 Mar 2017 2:42
Operator : SJ/MA
Sample : I1997-08DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

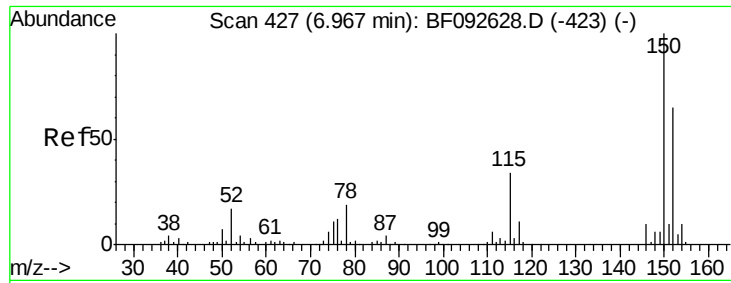
Instrument :
BNA_F
ClientSampleId :
E2-B1E-ESW-2DL

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM

Quant Time: Mar 01 03:21:51 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





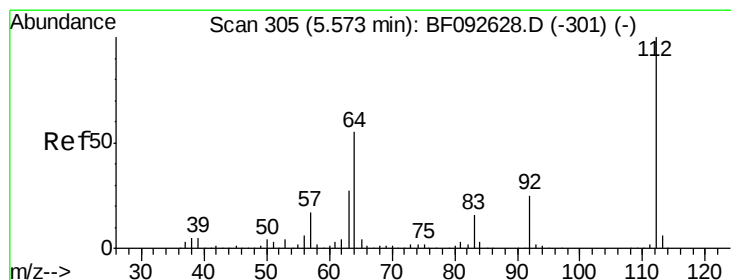
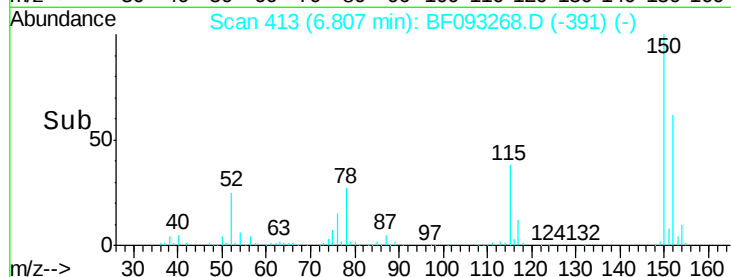
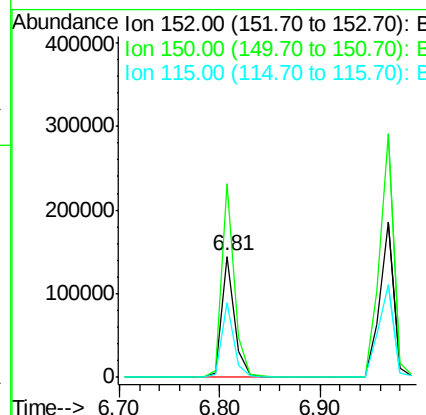
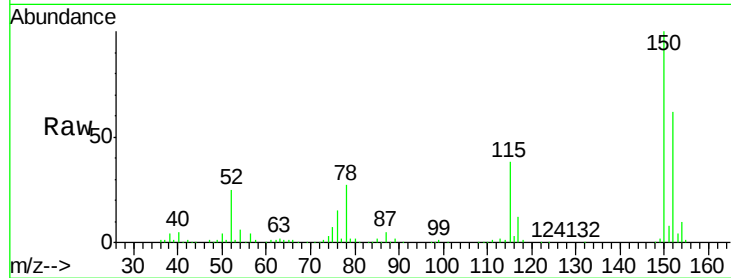
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.81 min Scan# 413
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.2	124.9	187.3
115	61.3	46.0	69.0

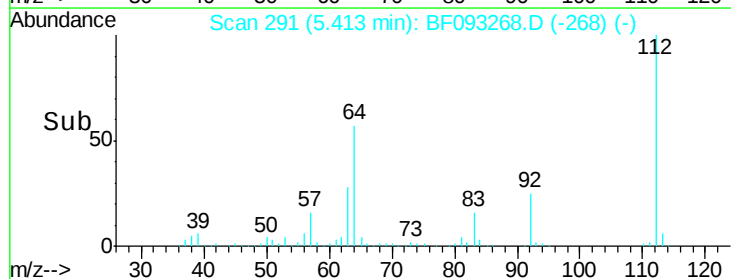
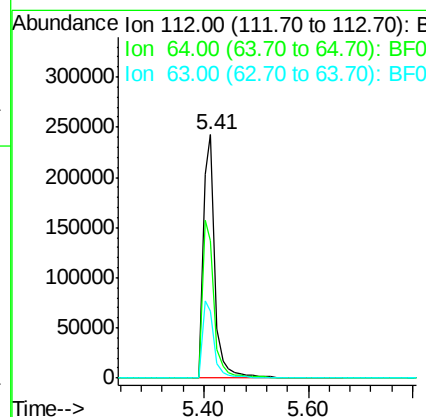
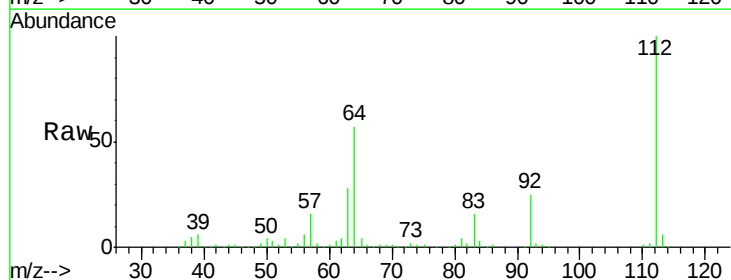
Manual Integrations
 APPROVED

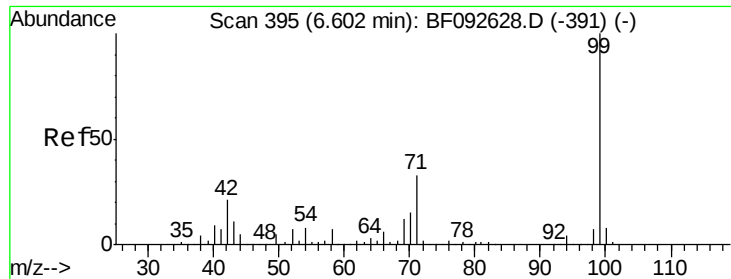
mohammad
 3/1/2017 4:06:58 PM



#5
 2-Fluorophenol
 Concen: 50.79 ng
 RT: 5.41 min Scan# 291
 Delta R.T. -0.03 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	46.1	69.1
63	27.7	23.8	35.6





#7

Phenol-d6

Concen: 49.22 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Instrument :

BNA_F

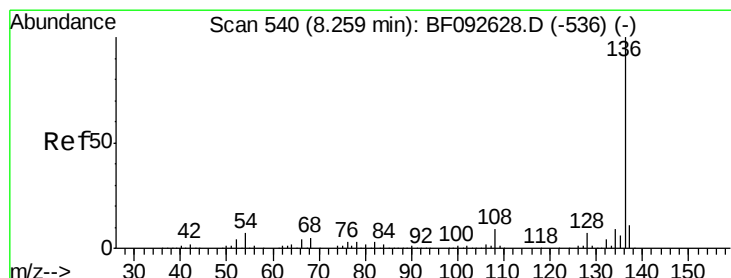
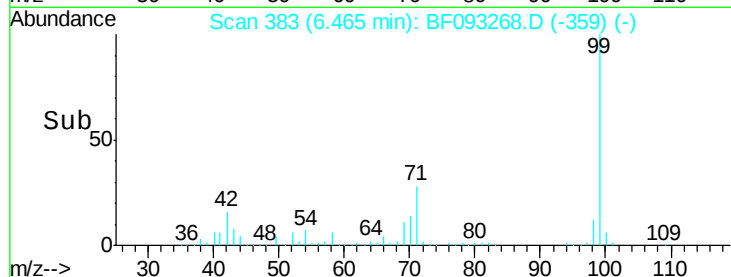
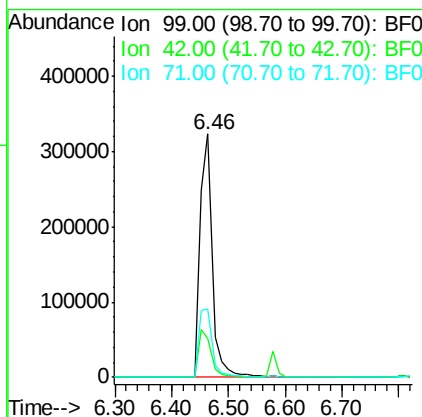
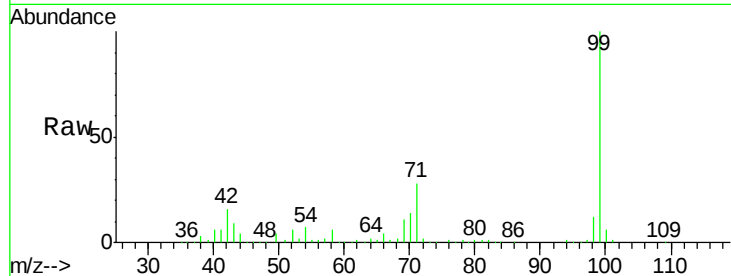
ClientSampleId :

E2-B1E-ESW-2DL

Tgt Ion:	99	Resp:	469354
Ion Ratio	Lower	Upper	
99	100		
42	16.2	15.6	23.4
71	28.0	27.5	41.3

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



#21

Naphthalene-d8

Concen: 20.00 ng

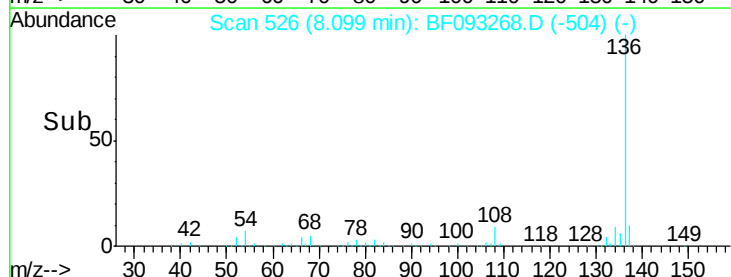
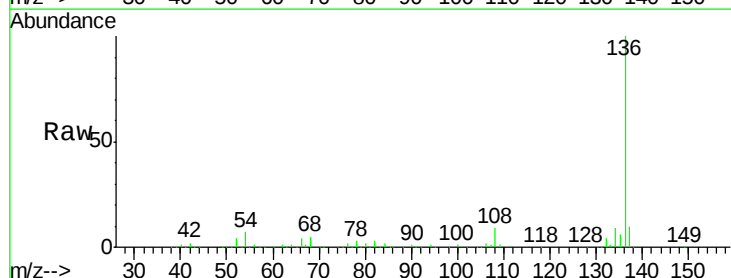
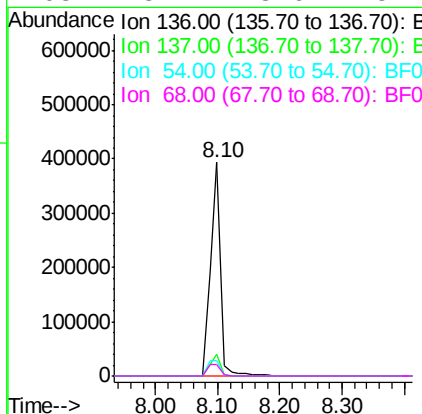
RT: 8.10 min Scan# 526

Delta R.T. -0.05 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Tgt Ion:	136	Resp:	433568
Ion Ratio	Lower	Upper	
136	100		
137	10.2	8.4	12.6
54	7.2	4.5	6.7#
68	5.1	3.6	5.4





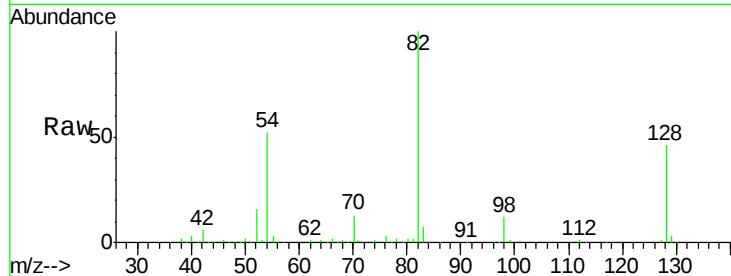
#23
 Nitrobenzene-d5
 Concen: 37.06 ng
 RT: 7.38 min Scan# 463
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

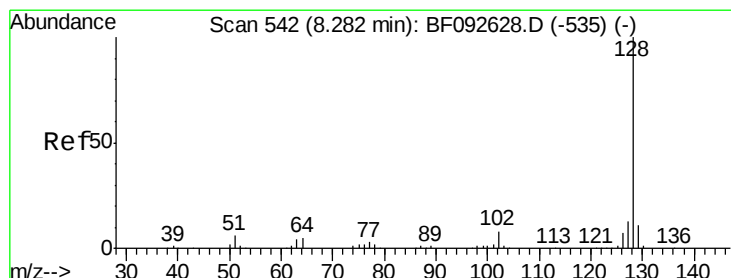
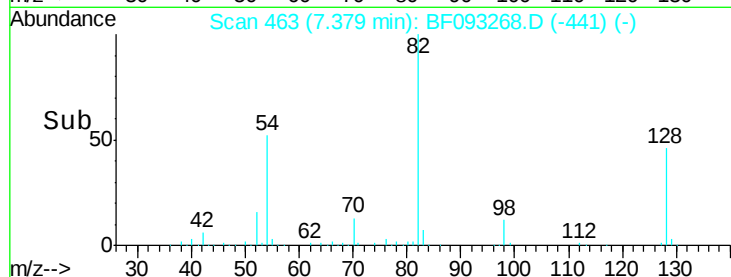
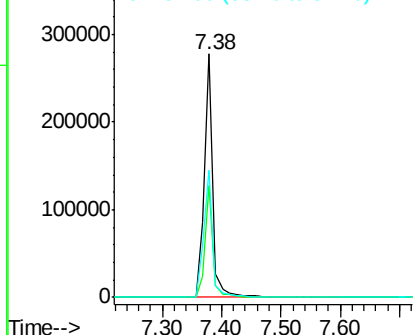
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	288559		
128	45.7	34.6	52.0	
54	52.1	39.5	59.3	

Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:06:58 PM

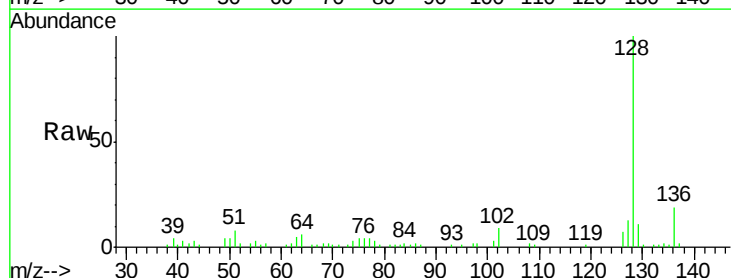


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

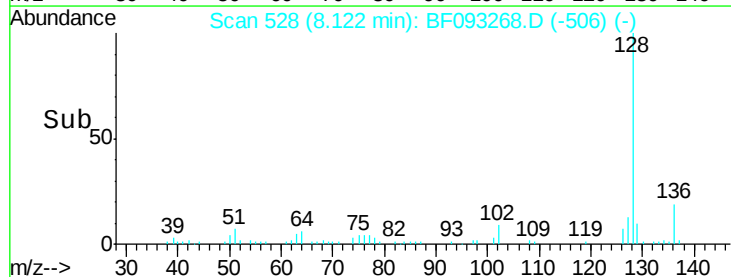
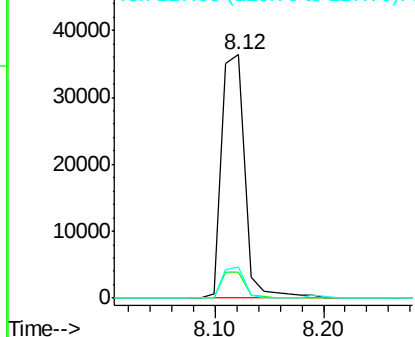


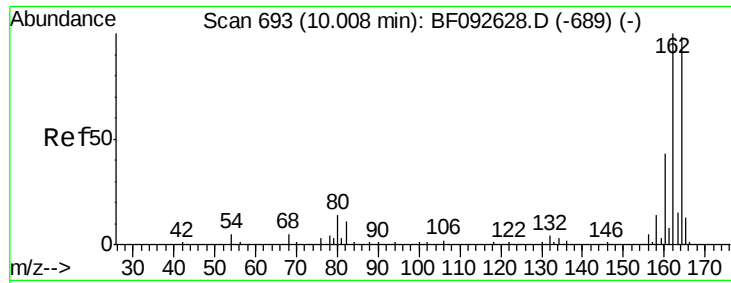
#31
 Naphthalene
 Concen: 2.45 ng
 RT: 8.12 min Scan# 528
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	53923		
129	10.9	9.5	14.3	
127	12.6	10.8	16.2	



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





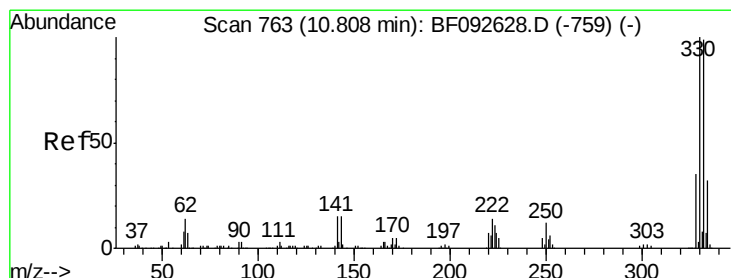
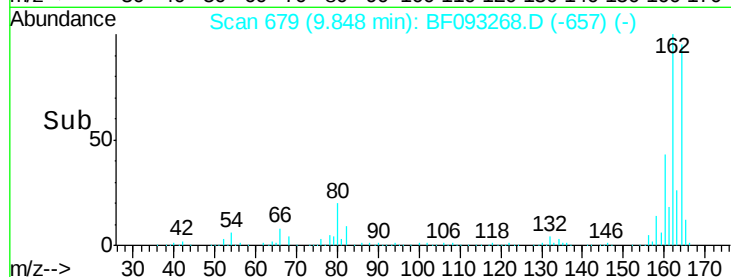
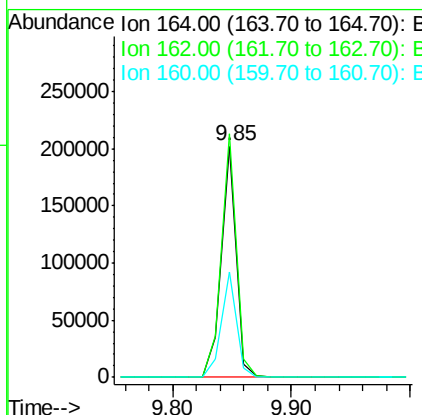
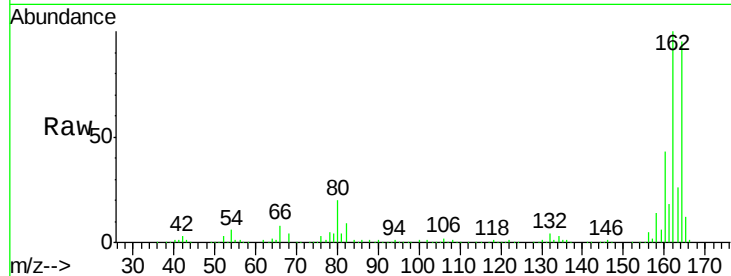
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 679
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	173452		
162	105.3	80.2	120.2	
160	45.5	36.9	55.3	

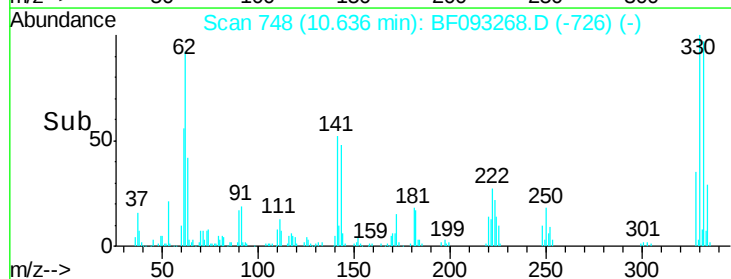
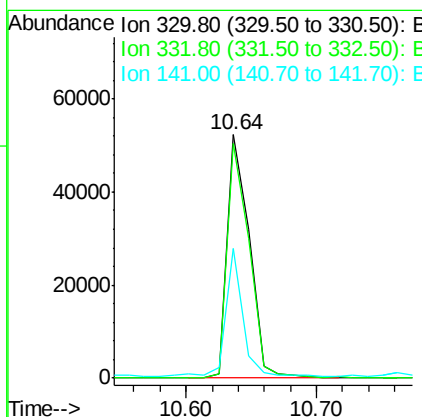
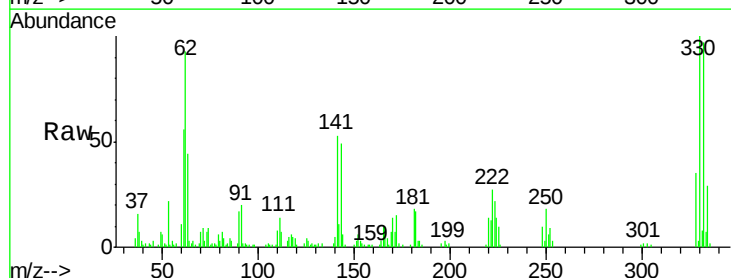
Manual Integrations
 APPROVED

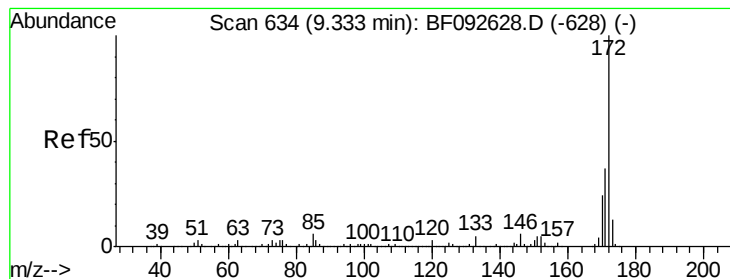
mohammad
 3/1/2017 4:06:58 PM



#41
 2,4,6-Tribromophenol
 Concen: 48.92 ng
 RT: 10.64 min Scan# 748
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	61369		
332	96.0	77.4	116.2	
141	43.3	34.1	51.1	





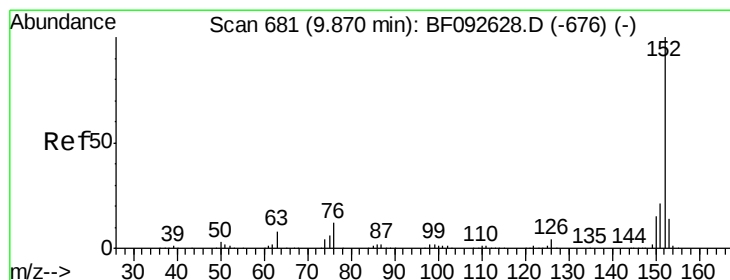
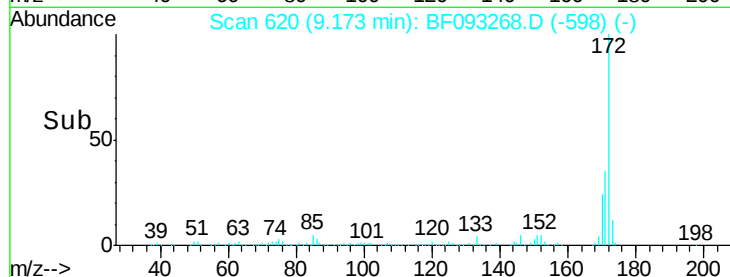
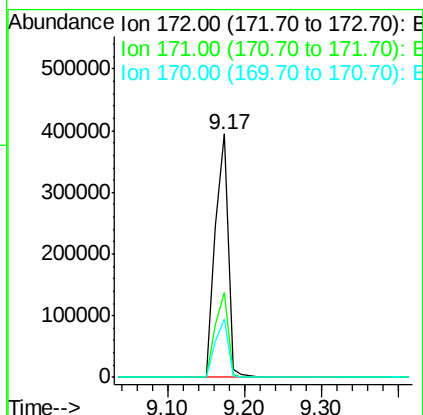
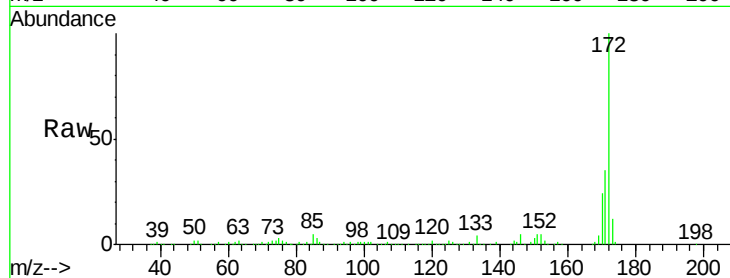
#44
 2-Fluorobiphenyl
 Concen: 47.83 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.4	44.0
170	23.8	20.2	30.4

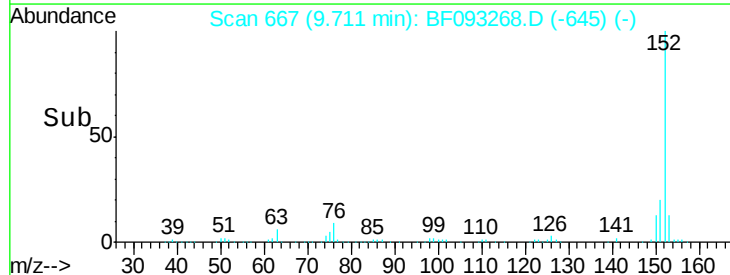
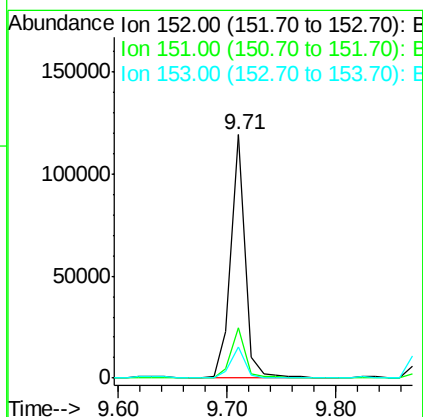
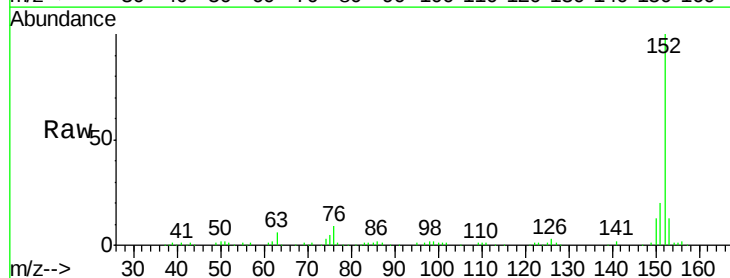
Manual Integrations
 APPROVED

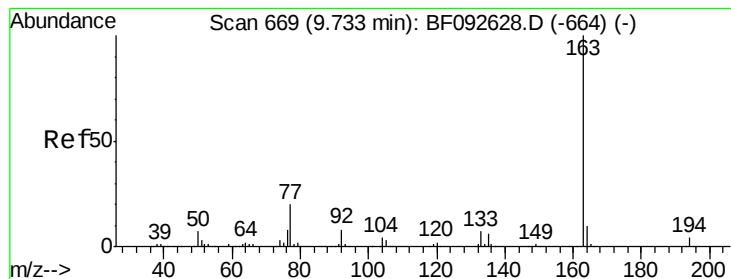
mohammad
 3/1/2017 4:06:58 PM



#48
 Acenaphthylene
 Concen: 6.47 ng
 RT: 9.71 min Scan# 667
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.9	25.3
153	13.0	11.4	17.2





#49

Dimethylphthalate

Concen: 11.78 ng

RT: 9.56 min Scan# 654

Delta R.T. -0.06 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Instrument :

BNA_F

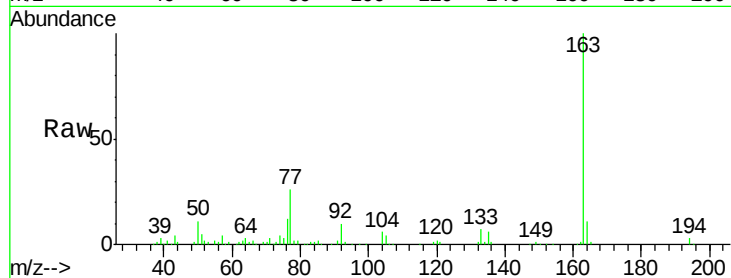
ClientSampleId :

E2-B1E-ESW-2DL

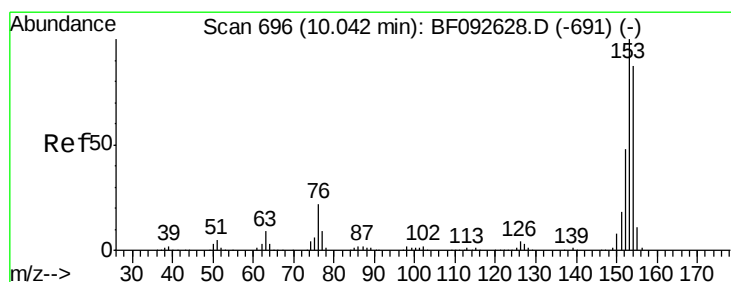
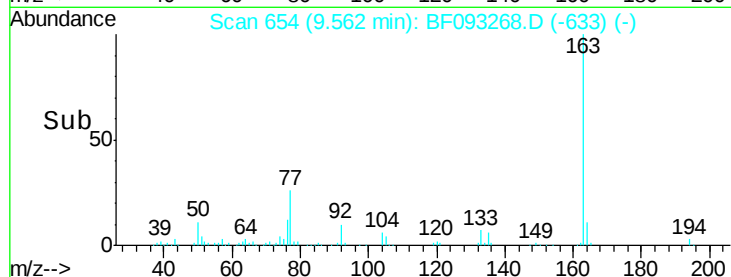
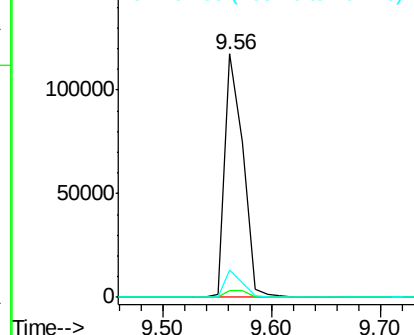
Tgt Ion:	163	Resp:	137591
Ion Ratio	Lower	Upper	
163	100		
194	3.0	3.0	4.4
164	11.5	8.0	12.0

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 2.27 ng

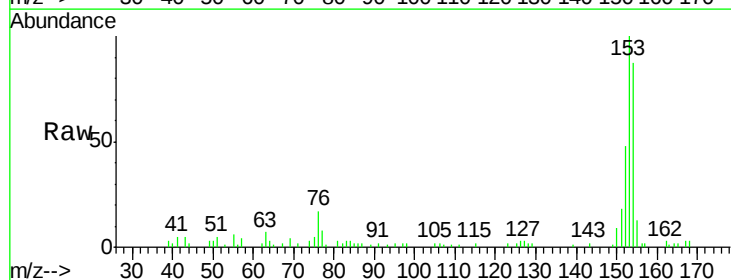
RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

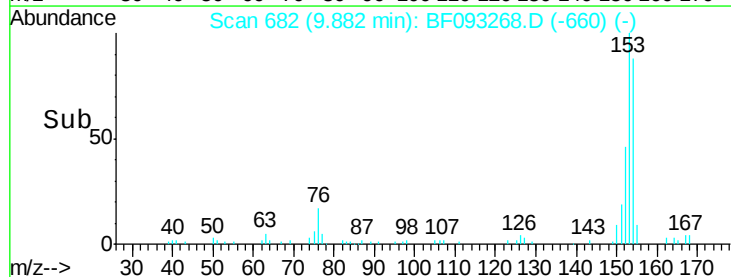
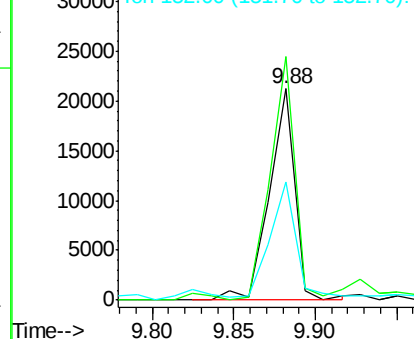
Lab File: BF093268.D

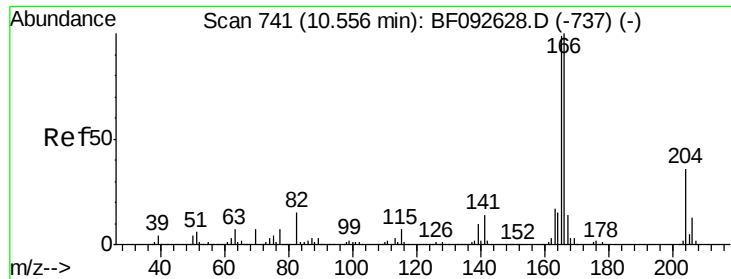
Acq: 1 Mar 2017 2:42

Tgt Ion:	154	Resp:	23032
Ion Ratio	Lower	Upper	
154	100		
153	115.1	88.6	133.0
152	55.7	41.6	62.4



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





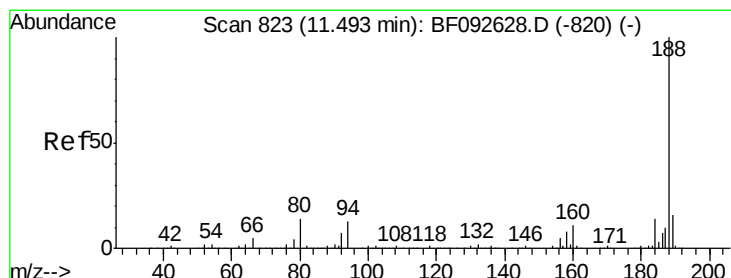
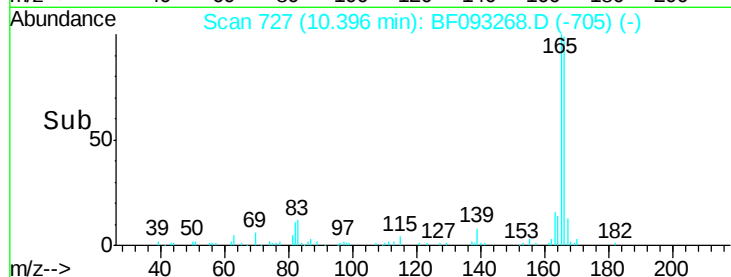
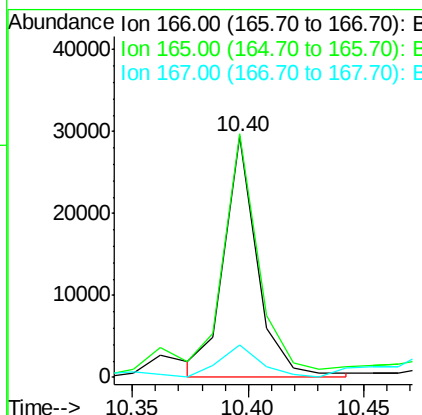
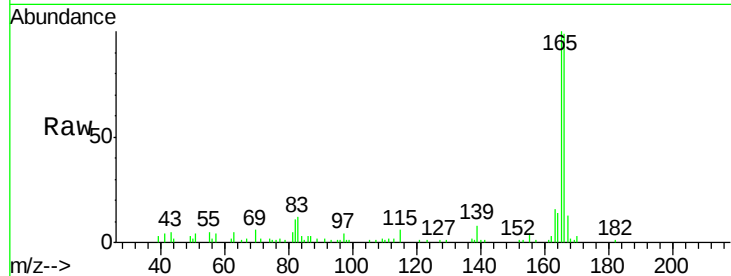
#57
Fluorene
 Concen: 2.79 ng m
 RT: 10.40 min Scan# 727
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	29102		
165	101.1	77.8	116.8	
167	13.5	10.8	16.2	

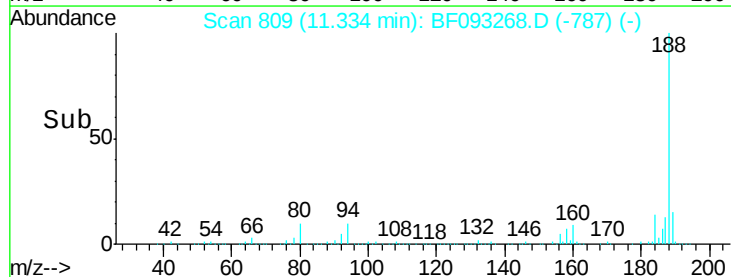
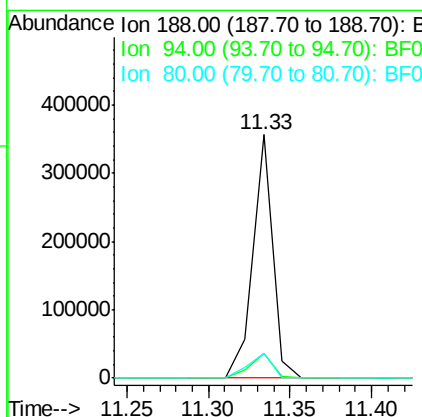
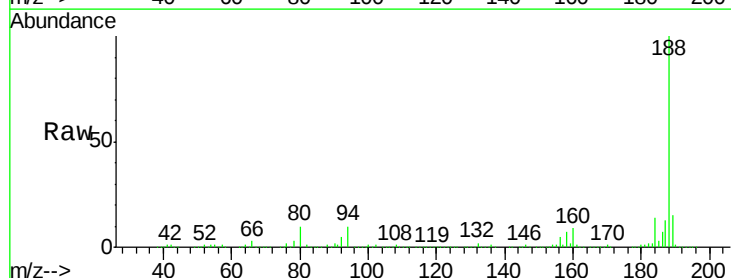
Manual Integrations
 APPROVED

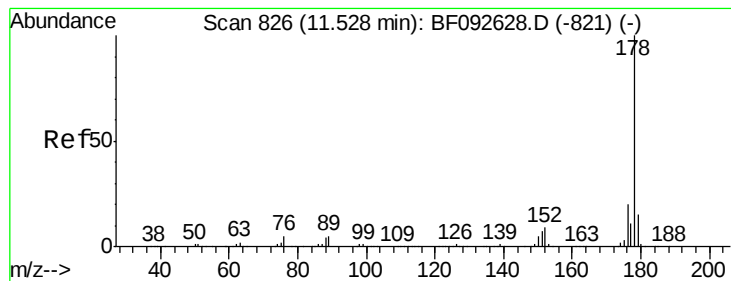
mohammad
 3/1/2017 4:06:58 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	304008		
94	10.1	10.0	15.0	
80	10.4	11.2	16.8#	





#70

Phenanthrene

Concen: 25.70 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Instrument :

BNA_F

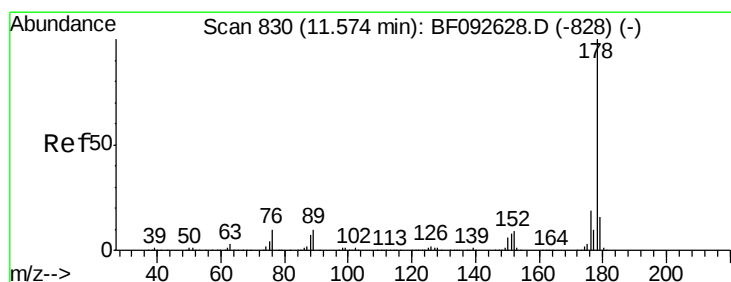
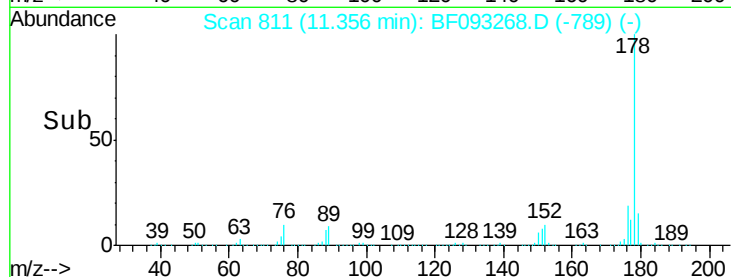
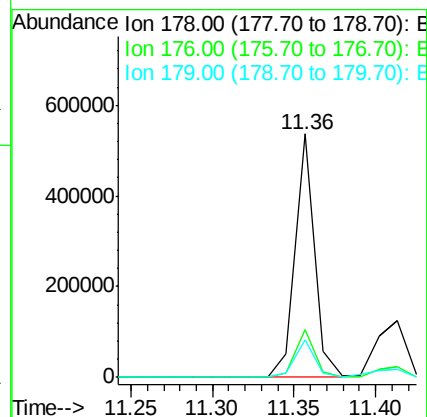
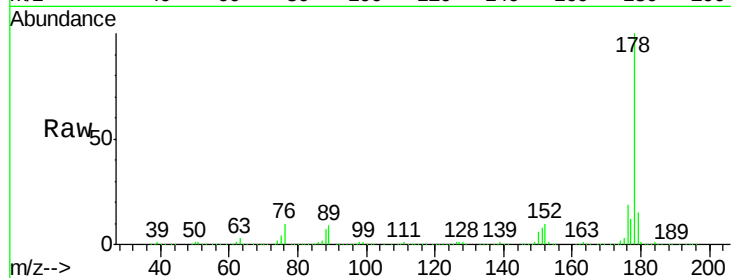
ClientSampleId :

E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.6	25.0
179	15.5	12.8	19.2

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



#71

Anthracene

Concen: 9.30 ng

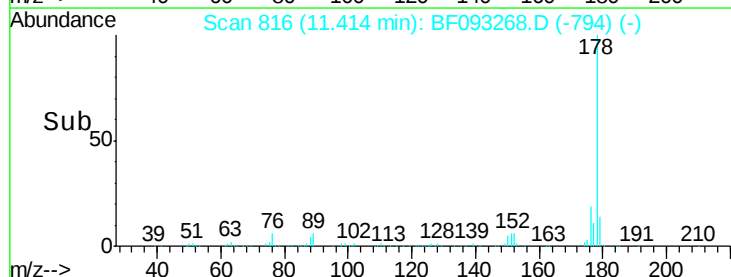
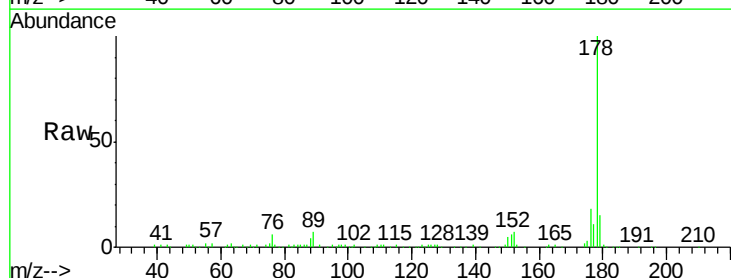
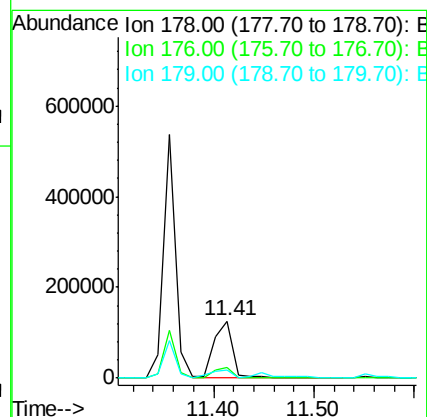
RT: 11.41 min Scan# 816

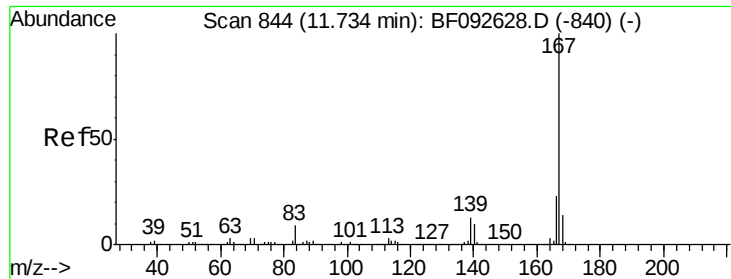
Delta R.T. -0.05 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.9	23.9
179	14.6	13.2	19.8





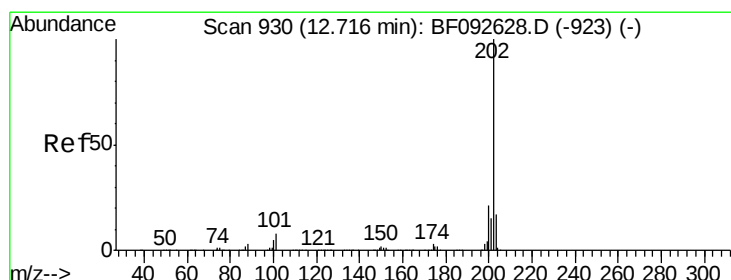
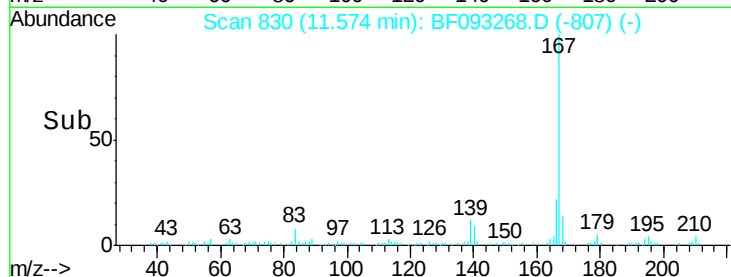
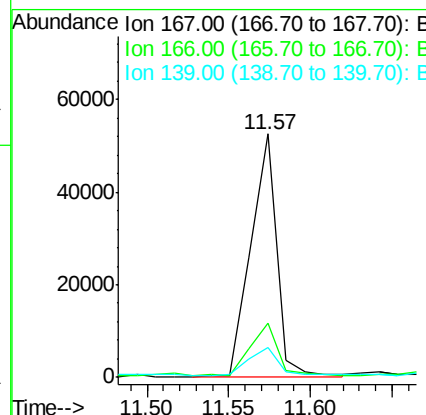
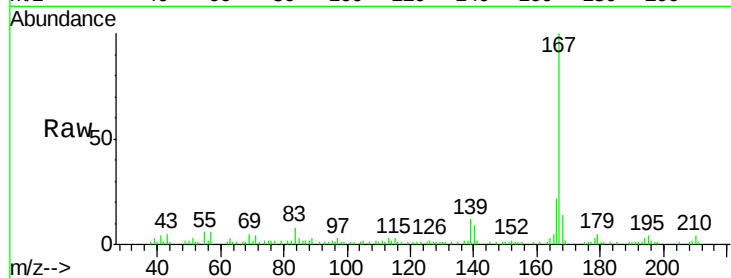
#72
 Carbazole
 Concen: 3.50 ng
 RT: 11.57 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.2	27.2
139	12.4	11.4	17.2

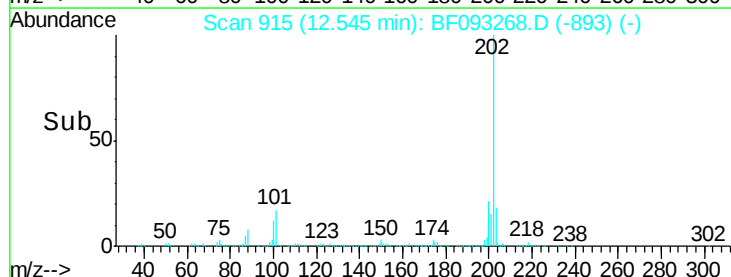
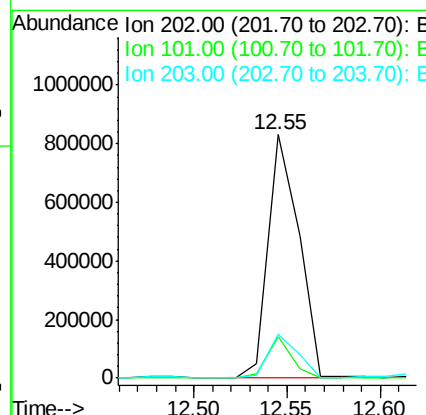
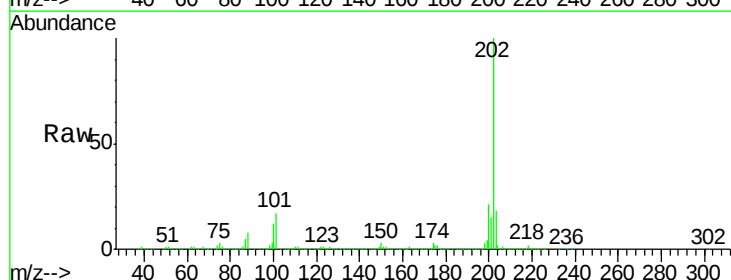
Manual Integrations
 APPROVED

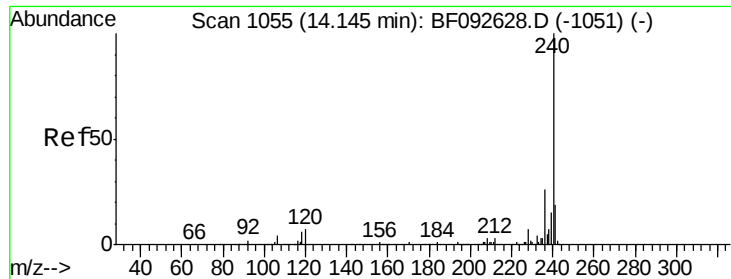
mohammad
 3/1/2017 4:06:58 PM



#74
 Fluoranthene
 Concen: 52.32 ng
 RT: 12.55 min Scan# 915
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.0	0.0	34.6
203	18.2	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: BF093268.D

Acq: 1 Mar 2017 2:42

Instrument :

BNA_F

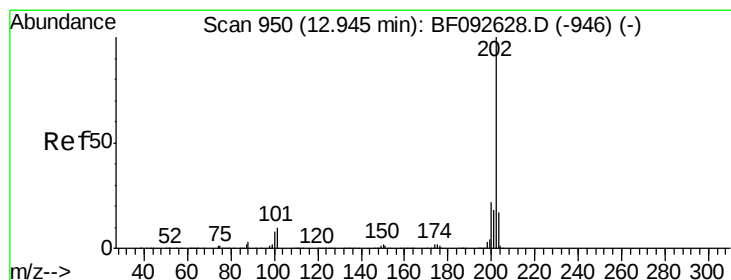
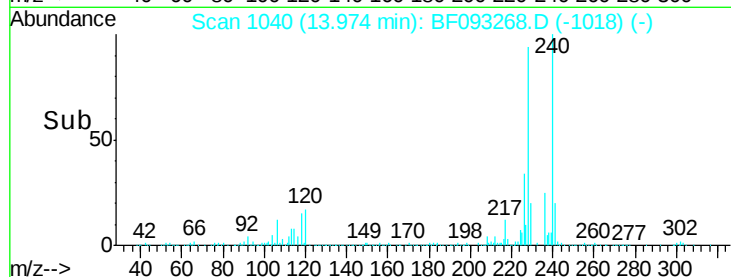
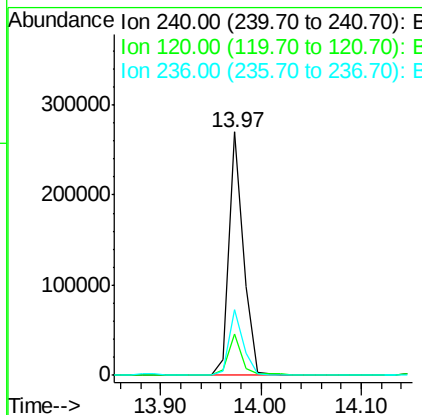
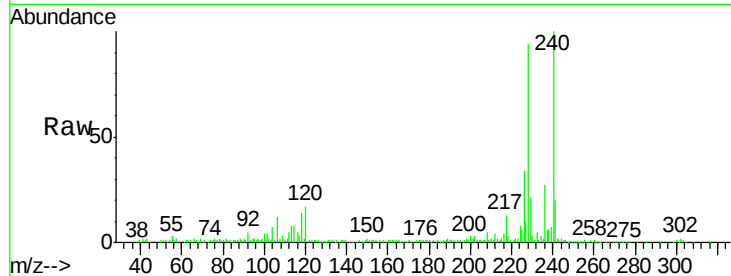
ClientSampleId :

E2-B1E-ESW-2DL

Tgt Ion:	240	Resp:	266775
Ion Ratio		Lower	Upper
240	100		
120	17.0	12.9	19.3
236	26.7	20.9	31.3

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



#77

Pyrene

Concen: 48.53 ng

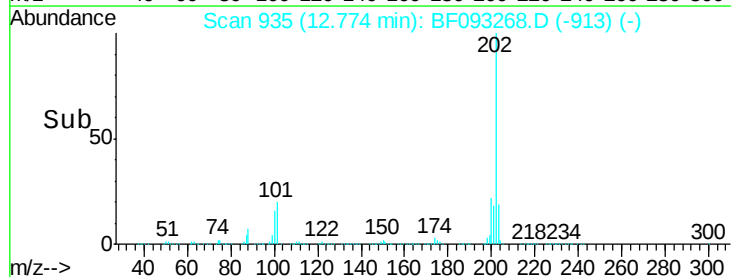
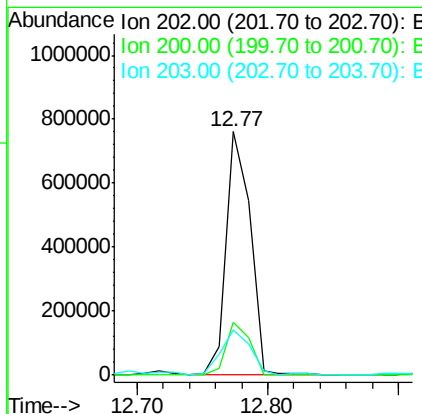
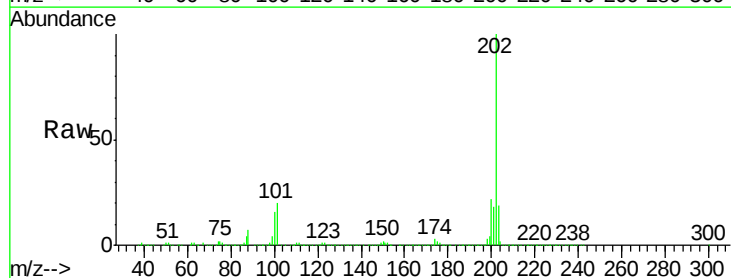
RT: 12.77 min Scan# 935

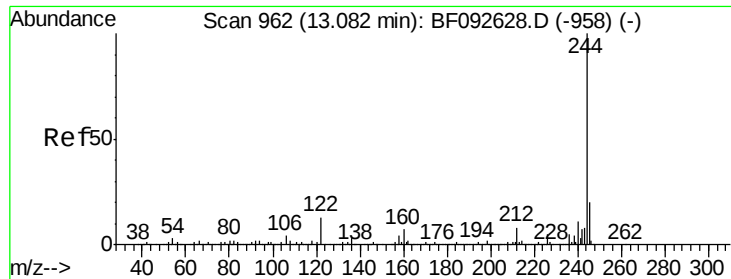
Delta R.T. -0.05 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Tgt Ion:	202	Resp:	968874
Ion Ratio		Lower	Upper
202	100		
200	21.8	17.7	26.5
203	18.6	14.7	22.1





#78

Terphenyl-d14

Concen: 32.39 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.06 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Instrument :

BNA_F

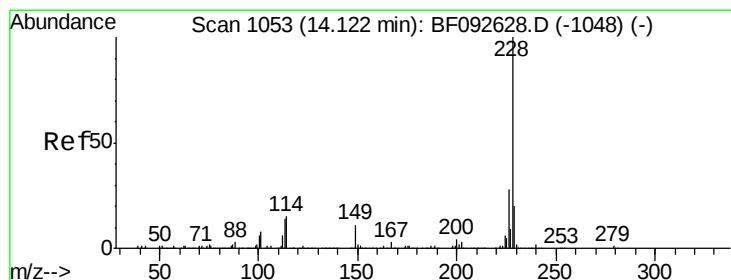
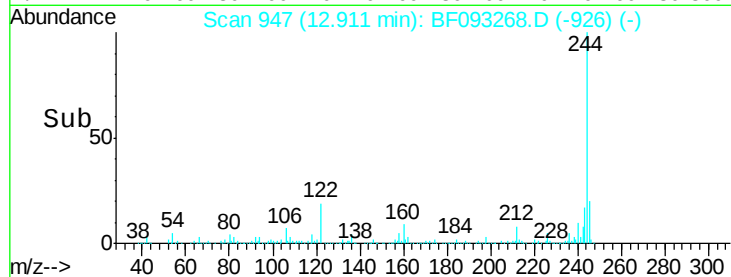
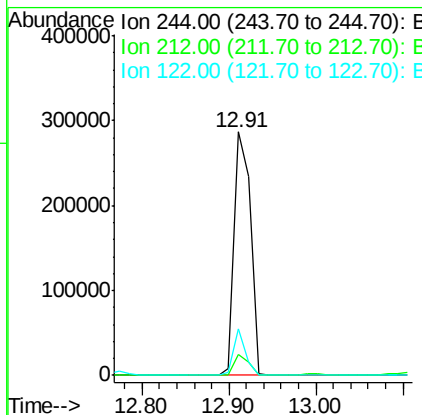
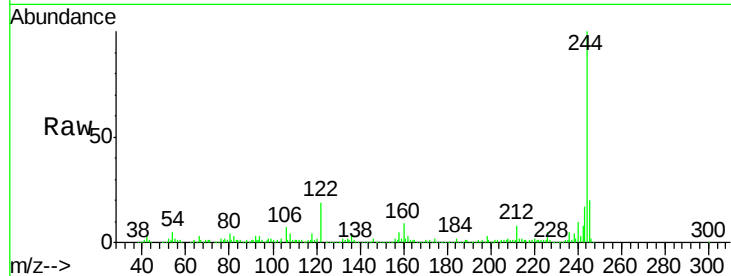
ClientSampleId :

E2-B1E-ESW-2DL

Tgt Ion:	244	Resp:	367743
Ion Ratio	Lower	Upper	
244	100		
212	8.4	6.2	9.2
122	19.1	11.4	17.2#

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



#80

Benzo(a)anthracene

Concen: 35.64 ng

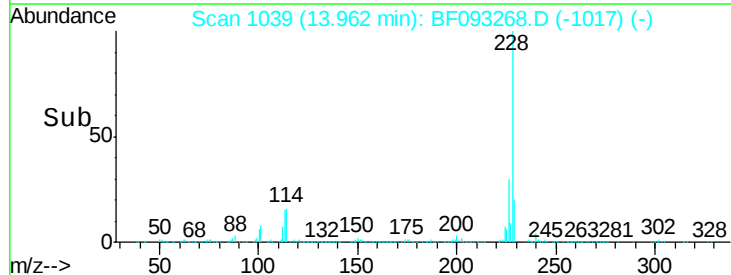
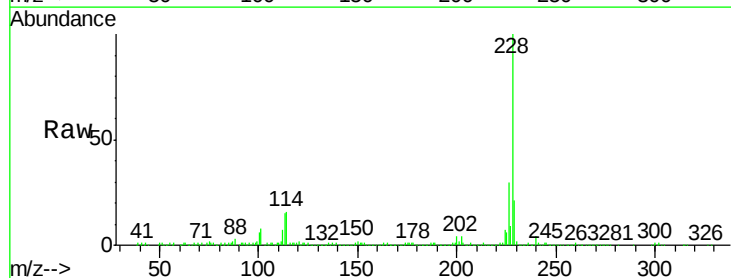
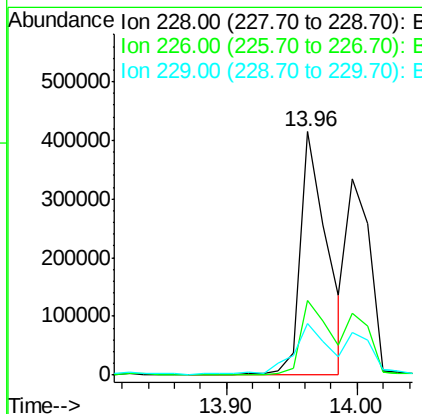
RT: 13.96 min Scan# 1039

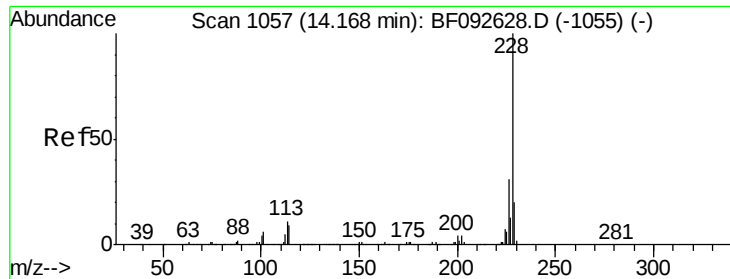
Delta R.T. -0.05 min

Lab File: BF093268.D

Acq: 1 Mar 2017 2:42

Tgt Ion:	228	Resp:	581485
Ion Ratio	Lower	Upper	
228	100		
226	30.4	22.4	33.6
229	21.0	16.2	24.4





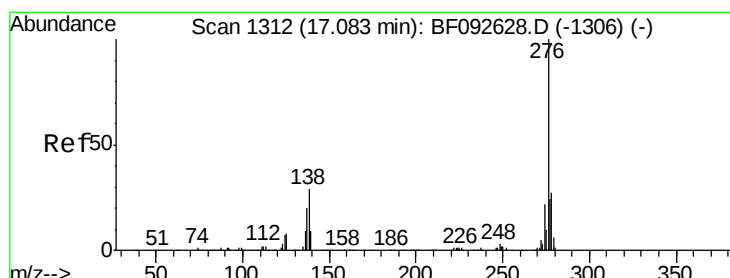
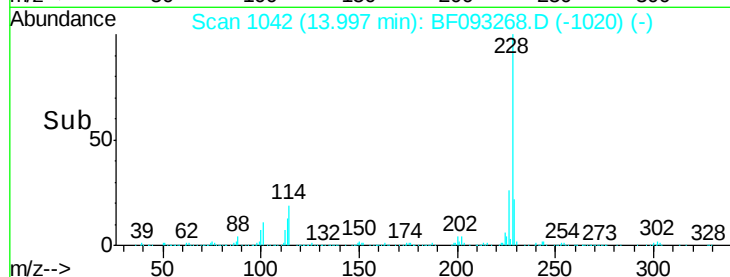
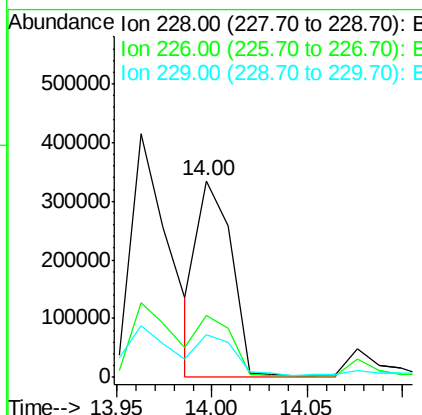
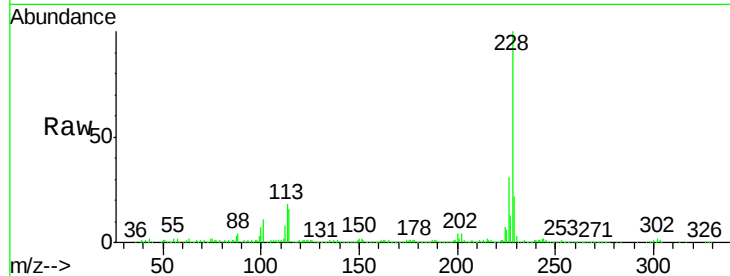
#82
Chrysene
Concen: 27.70 ng m
RT: 14.00 min Scan# 1042
Delta R.T. -0.05 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Instrument :
BNA_F
ClientSampleId :
E2-B1E-ESW-2DL

Tgt Ion: 228 Resp: 423207
Ion Ratio Lower Upper
228 100
226 31.3 25.4 38.0
229 21.6 16.2 24.2

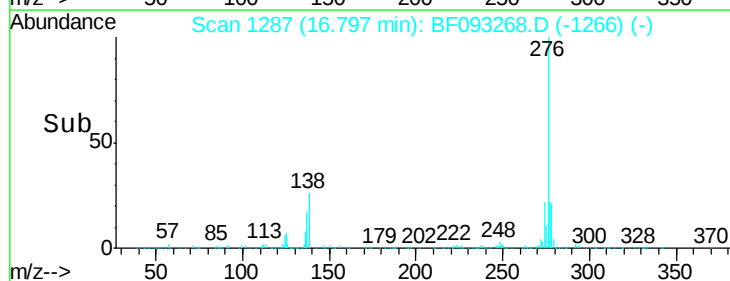
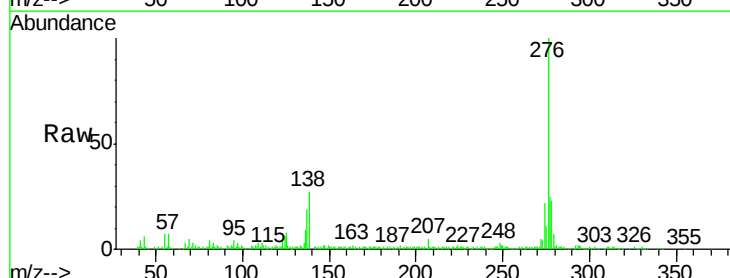
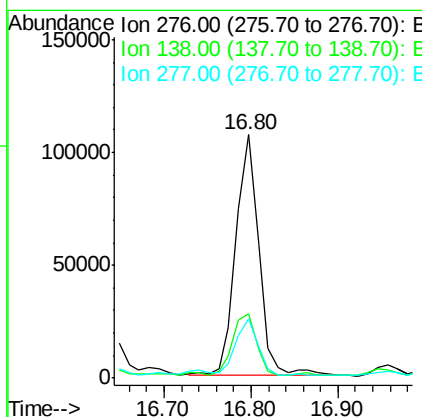
Manual Integrations
APPROVED

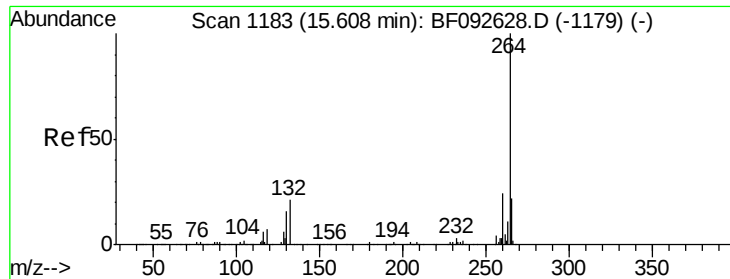
mohammad
3/1/2017 4:06:58 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 16.58 ng
RT: 16.80 min Scan# 1287
Delta R.T. -0.06 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Tgt Ion: 276 Resp: 196216
Ion Ratio Lower Upper
276 100
138 27.6 21.8 32.6
277 25.3 20.2 30.4





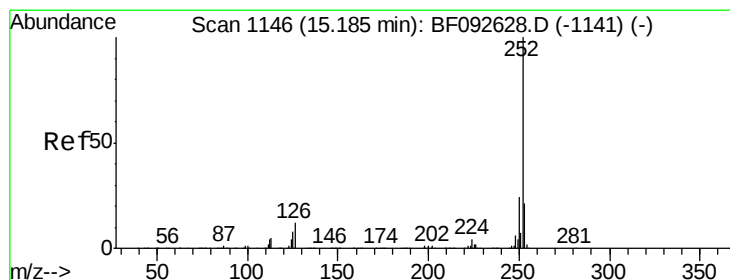
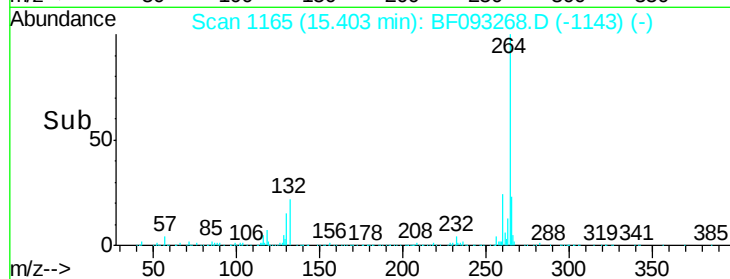
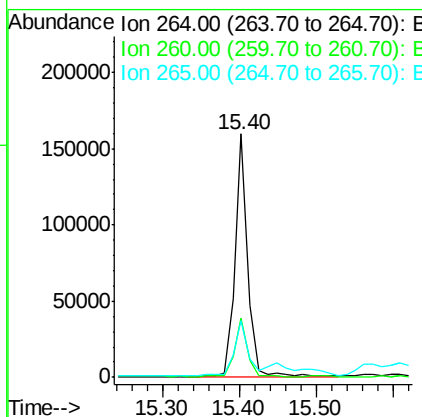
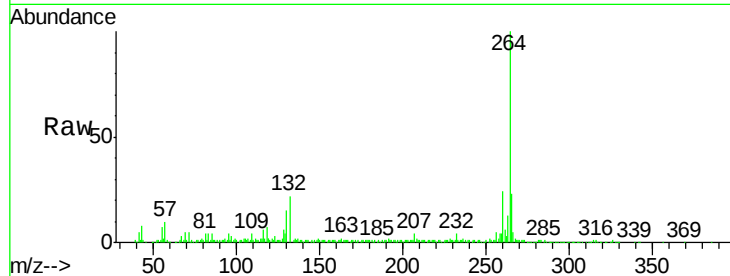
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.40 min Scan# 1165
 Delta R.T. -0.05 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	23.4	17.4	26.0

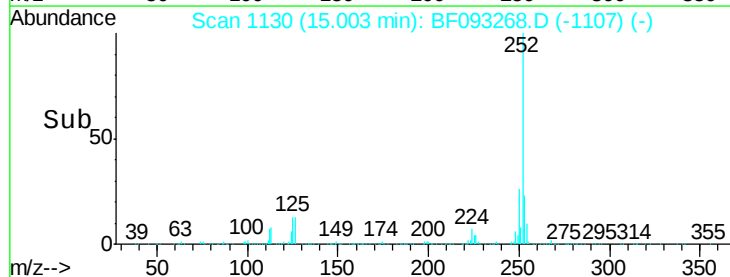
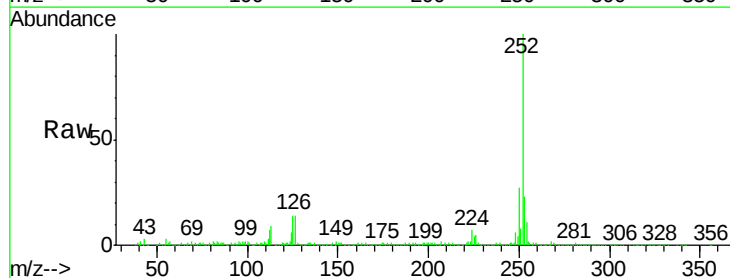
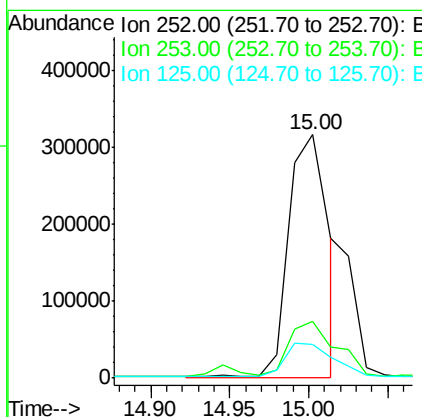
Manual Integrations
 APPROVED

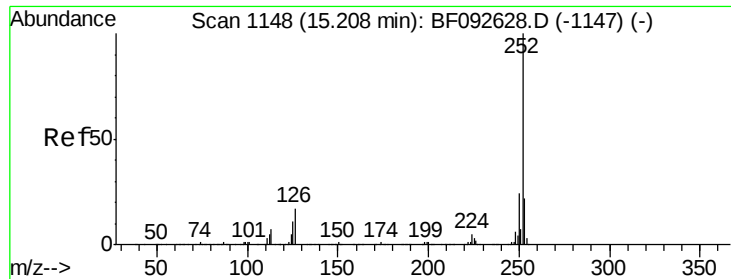
mohammad
 3/1/2017 4:06:58 PM



#87
 Benzo(b)fluoranthene
 Concen: 45.65 ng m
 RT: 15.00 min Scan# 1130
 Delta R.T. -0.03 min
 Lab File: BF093268.D
 Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	14.0	9.8	14.6





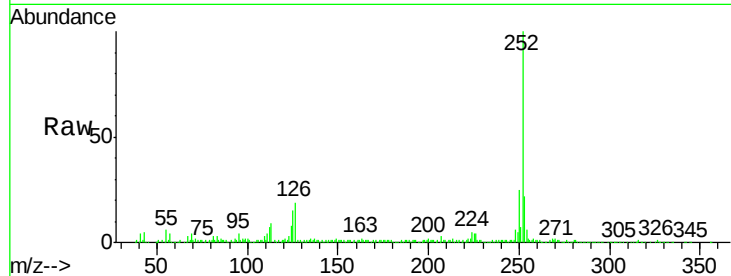
#88
Benzo(k)fluoranthene
Concen: 11.74 ng m
RT: 15.01 min Scan# 1131
Delta R.T. -0.06 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Instrument :
BNA_F
ClientSampleId :
E2-B1E-ESW-2DL

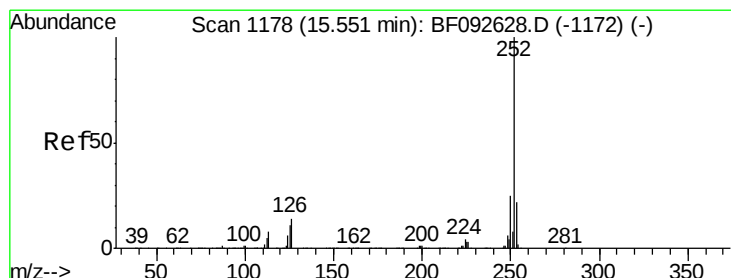
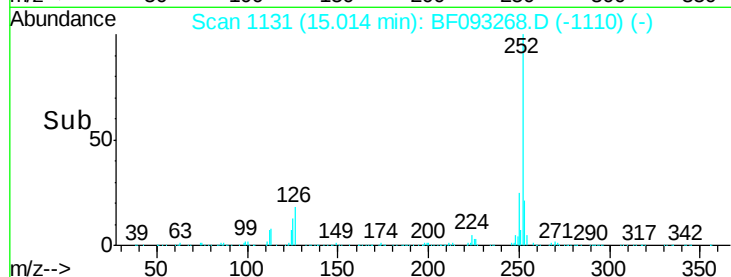
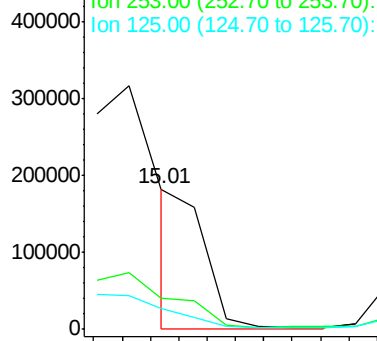
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.5	27.7
125	14.7	8.9	13.3

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



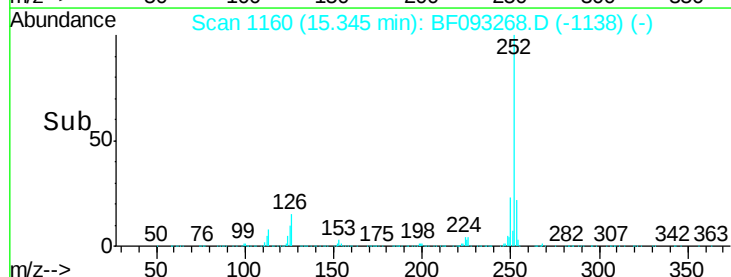
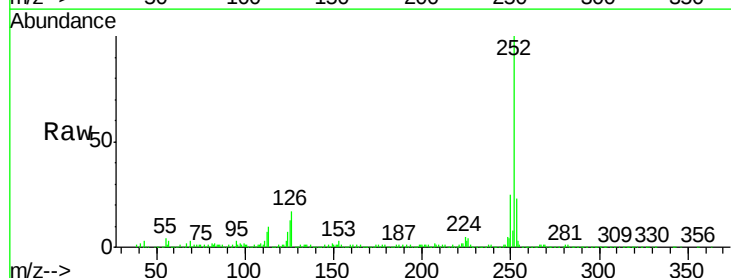
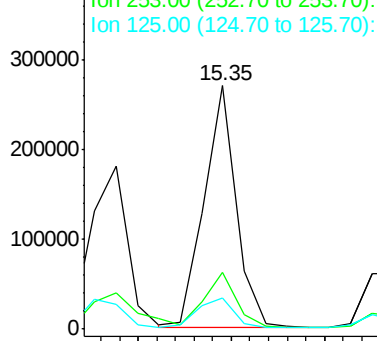
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

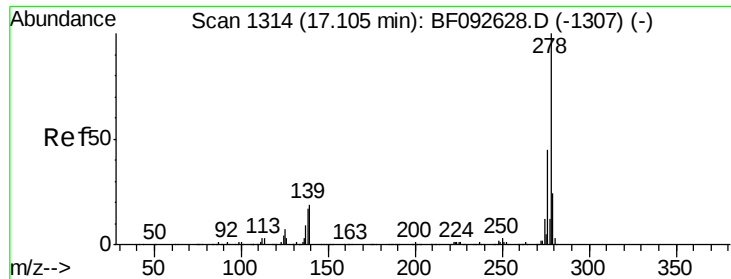


#89
Benzo(a)pyrene
Concen: 30.16 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	12.8	10.0	15.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





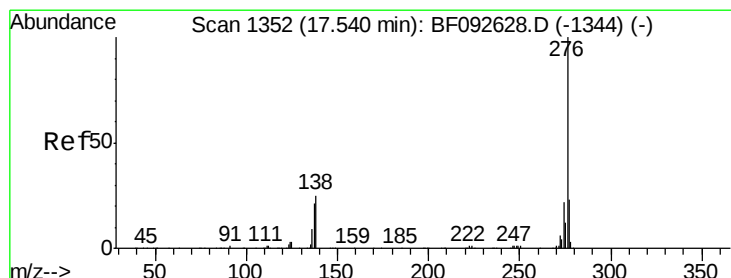
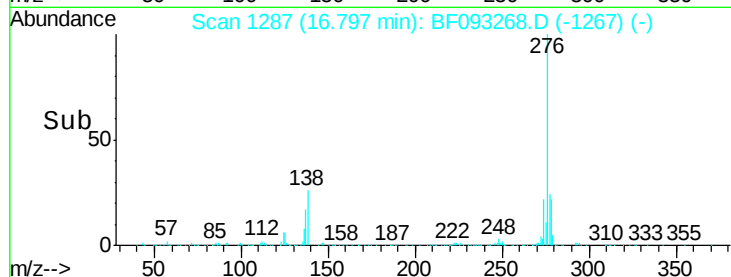
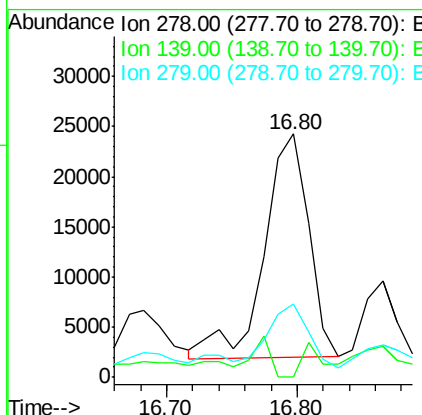
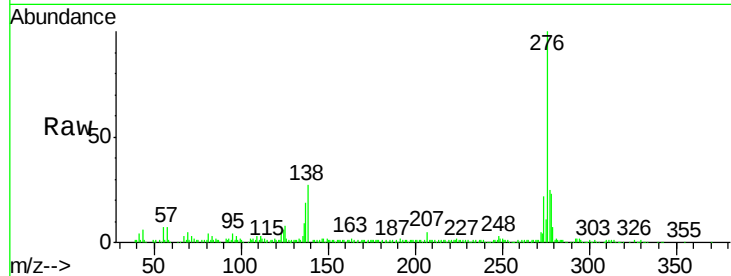
#90
Dibenzo(a,h)anthracene
Concen: 6.10 ng
RT: 16.80 min Scan# 1287
Delta R.T. -0.07 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Instrument :
BNA_F
ClientSampleId :
E2-B1E-ESW-2DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	30.1	19.8	29.6#

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:58 PM



#91
Benzo(g,h,i)perylene
Concen: 21.62 ng
RT: 17.22 min Scan# 1324
Delta R.T. -0.07 min
Lab File: BF093268.D
Acq: 1 Mar 2017 2:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.2	28.8
138	28.0	16.0	24.0#

