

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
 Data File : BF093187.D
 Acq On : 25 Feb 2017 12:36
 Operator : SJ/MA
 Sample : I1972-14
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-3

Manual Integrations
 APPROVED

mohammad
 2/27/2017 1:08:56 PM

Quant Time: Feb 27 10:22:50 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	6.83	152	153461	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	572504	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	268688	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	409544	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	311207	20.00	ng	-0.01
86) Perylene-d12	15.45	264	251100	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	1061412	118.66	ng	-0.01
7) Phenol-d6	6.48	99	1225313	106.46	ng	-0.01
23) Nitrobenzene-d5	7.40	82	752852	73.23	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	190403	97.98	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1354459	91.33	ng	-0.01
78) Terphenyl-d14	12.96	244	903617	68.22	ng	-0.01

Target Compounds						Qvalue
10) Phenol	6.49	94	65106	4.84	ng	93
31) Naphthalene	8.14	128	262735	9.05	ng	99
37) 2-Methylnaphthalene	8.84	142	168105	9.02	ng	96
48) Acenaphthylene	9.74	152	216493	8.23	ng	97
49) Dimethylphthalate	9.60	163	118188	6.53	ng	# 98
54) Dibenzofuran	10.09	168	69722	3.32	ng	# 88
70) Phenanthrene	11.39	178	434645	18.52	ng	97
71) Anthracene	11.44	178	177950	7.55	ng	98
72) Carbazole	11.60	167	55168	2.45	ng	99
74) Fluoranthene	12.58	202	851050	35.16	ng	97
77) Pyrene	12.81	202	820487	35.23	ng	99
80) Benzo(a)anthracene	14.00	228	595883	31.31	ng	94
82) Chrysene	14.03	228	441850m	24.79	ng	
83) Bis(2-ethylhexyl)phthalate	13.99	149	38124	2.95	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.85	276	200719	14.54	ng	98
87) Benzo(b)fluoranthene	15.04	252	639890m	38.72	ng	
88) Benzo(k)fluoranthene	15.06	252	235875m	16.53	ng	
89) Benzo(a)pyrene	15.39	252	350837	24.54	ng	98
90) Dibenz(a,h)anthracene	16.85	278	62772m	5.43	ng	
91) Benzo(a,h,i)perylene	17.28	276	184146	15.78	ng	# 89

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

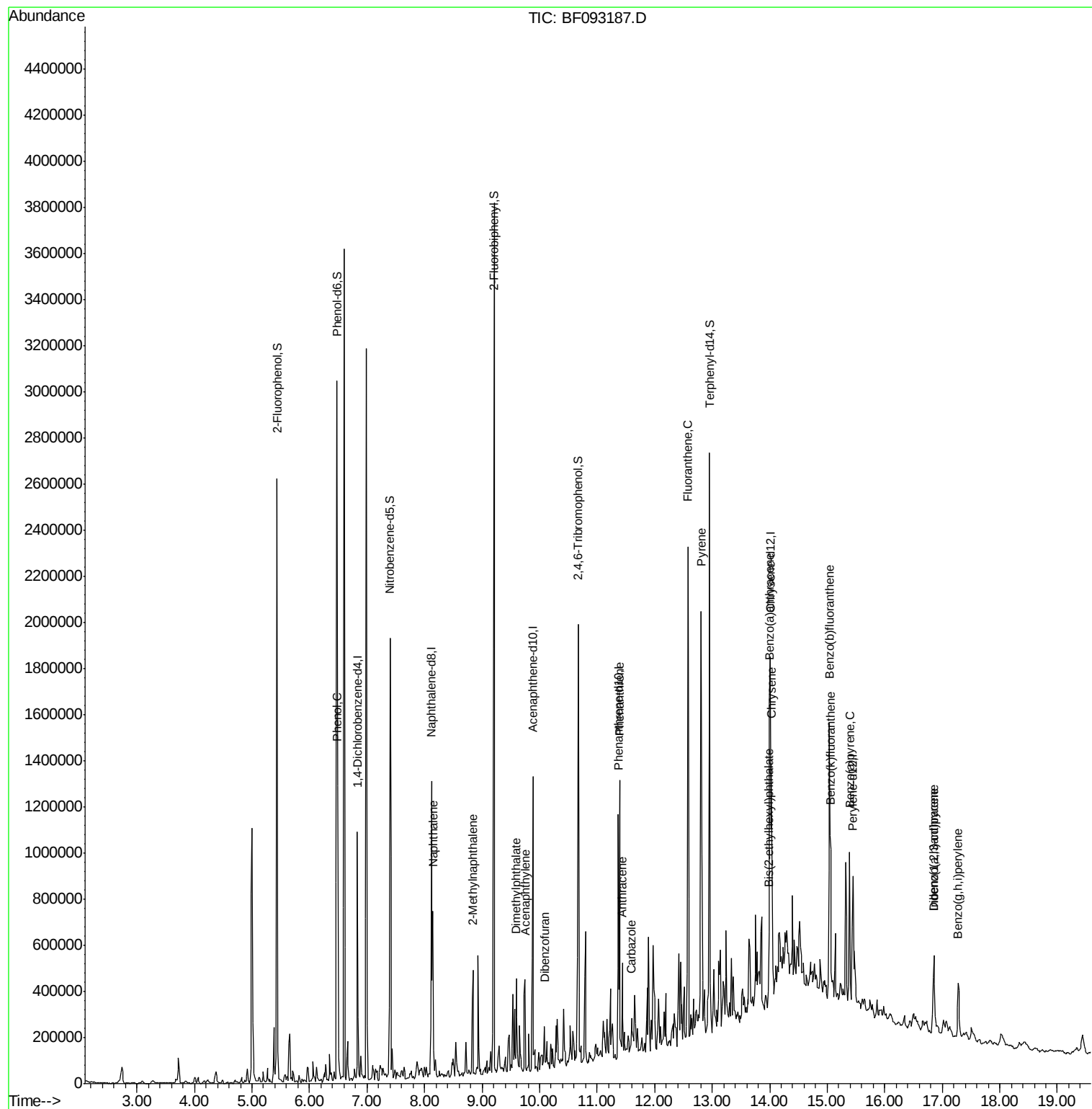
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
Data File : BF093187.D
Acq On : 25 Feb 2017 12:36
Operator : SJ/MA
Sample : I1972-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

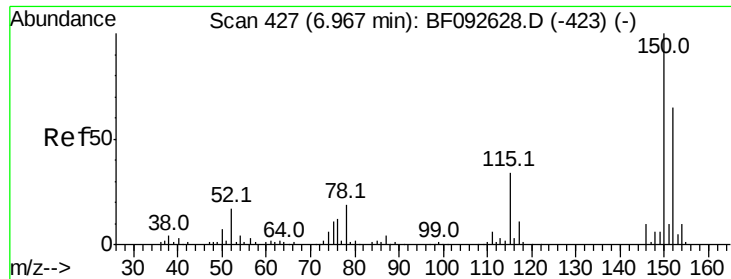
Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM

Quant Time: Feb 27 10:22:50 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

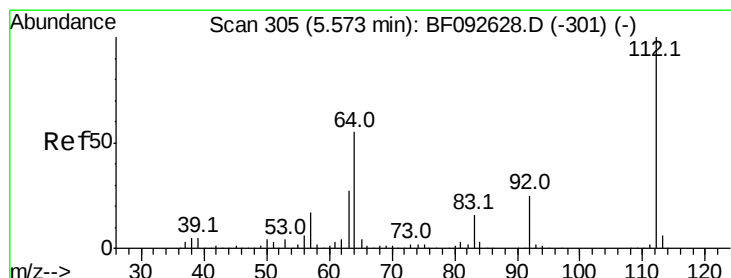
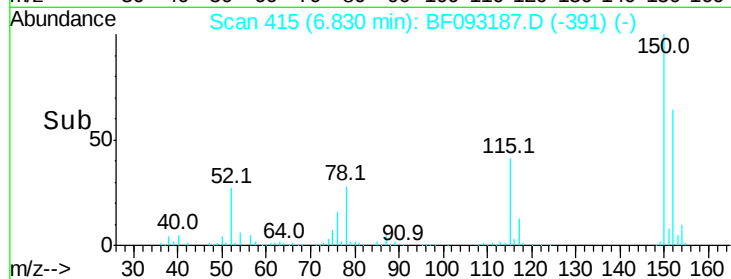
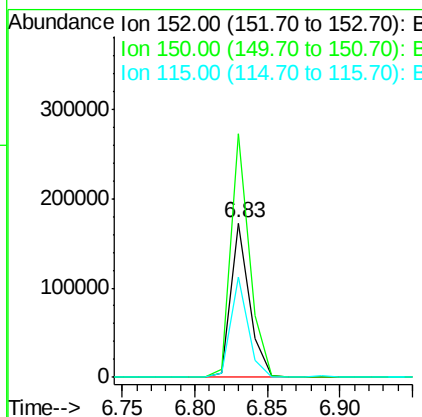
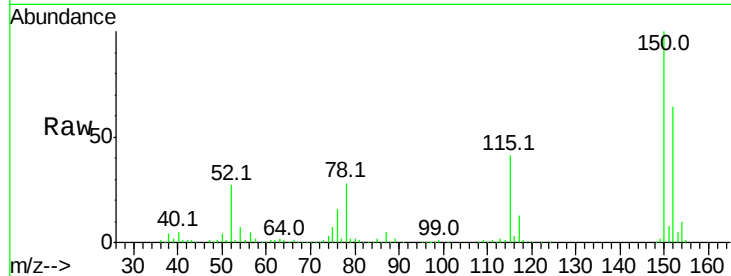
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.02 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.9	187.3
115	64.6	46.0	69.0

Manual Integrations
APPROVED

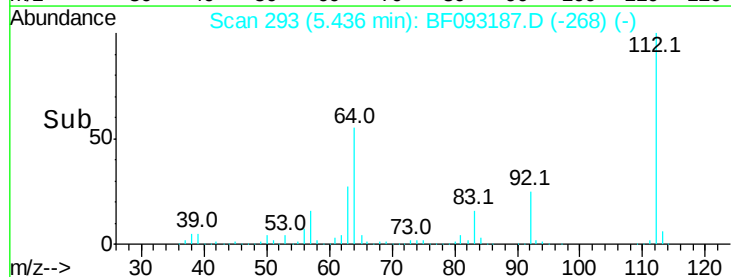
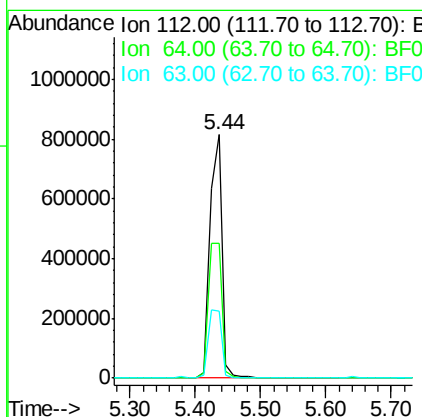
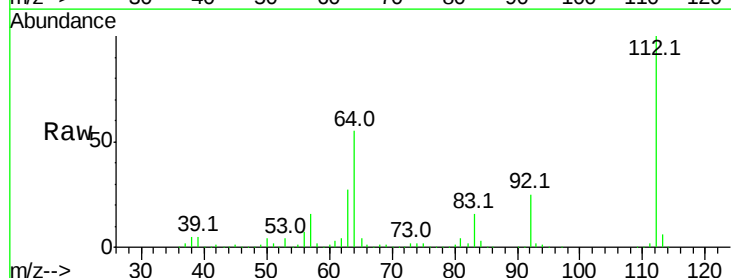
mohammad
2/27/2017 1:08:56 PM

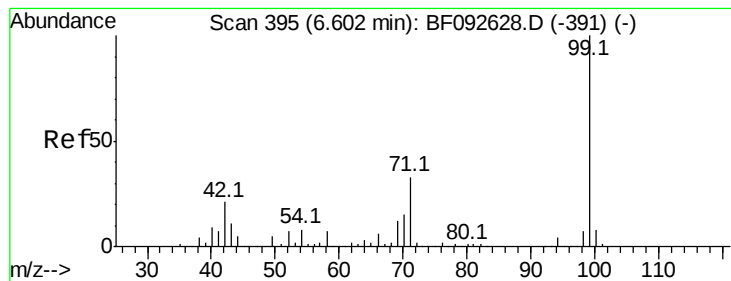


#5

2-Fluorophenol
Concen: 118.66 ng
RT: 5.44 min Scan# 293
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	46.1	69.1
63	27.4	23.8	35.6





#7

Phenol-d6

Concen: 106.46 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Instrument :

BNA_F

ClientSampleId :

E2-B1-SW-3

Tot Ion: 99 Resp: 1225313

Ion Ratio Lower Upper

99 100

42 20.6 15.6 23.4

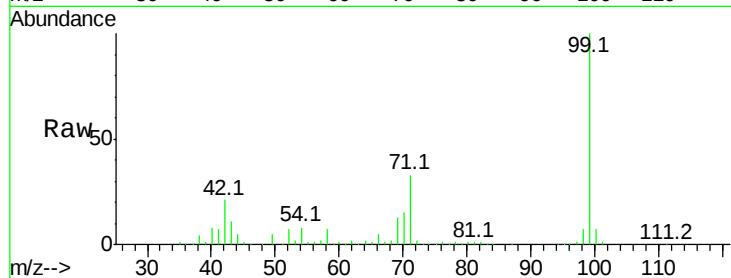
71 32.9 27.5 41.3

Manual Integrations

APPROVED

mohammad

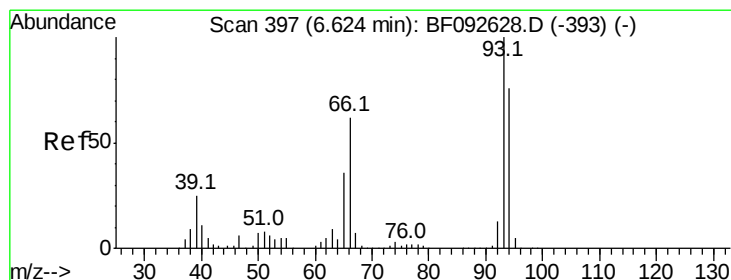
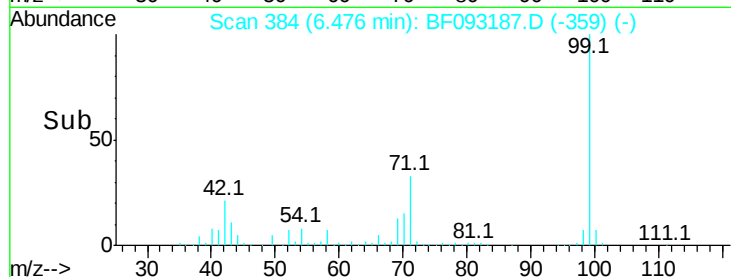
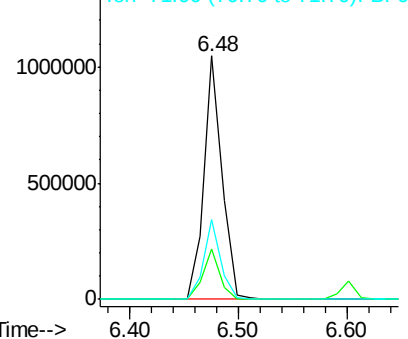
2/27/2017 1:08:56 PM



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: 4.84 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

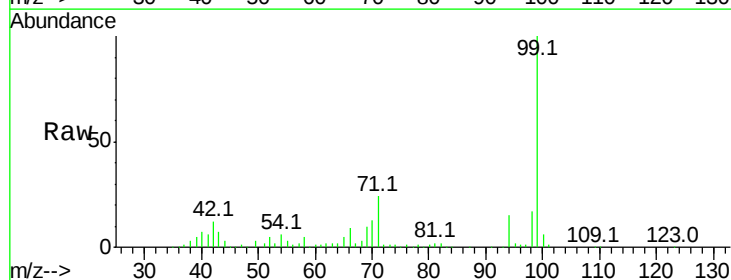
Tgt Ion: 94 Resp: 65106

Ion Ratio Lower Upper

94 100

65 34.7 21.4 61.4

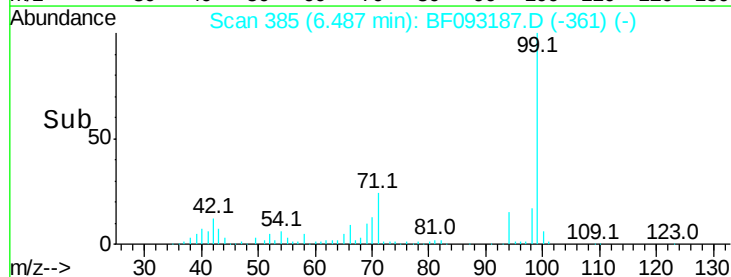
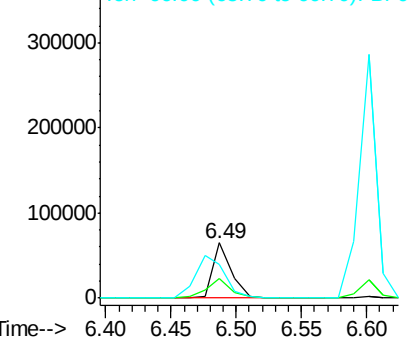
66 60.5 44.0 84.0

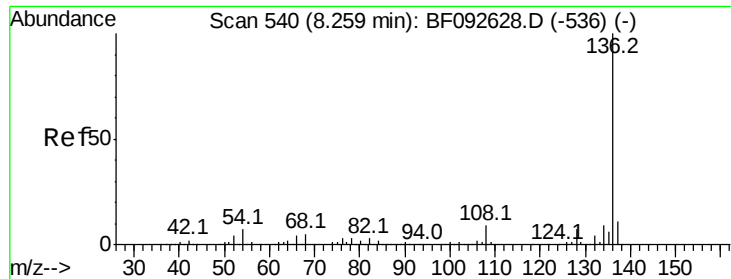


Abundance Ion 94.00 (93.70 to 94.70): BF0

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: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Instrument :

BNA_F

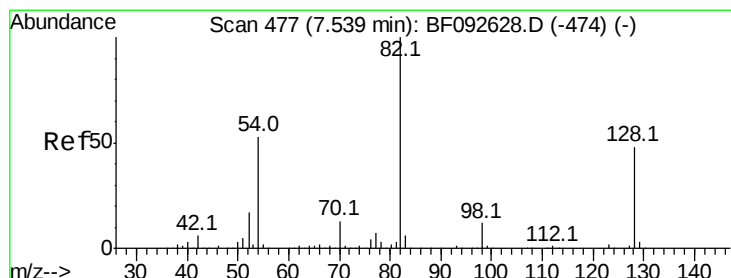
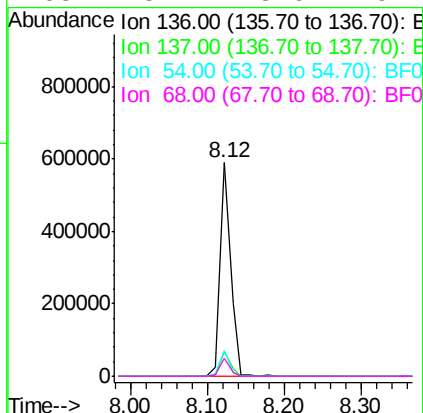
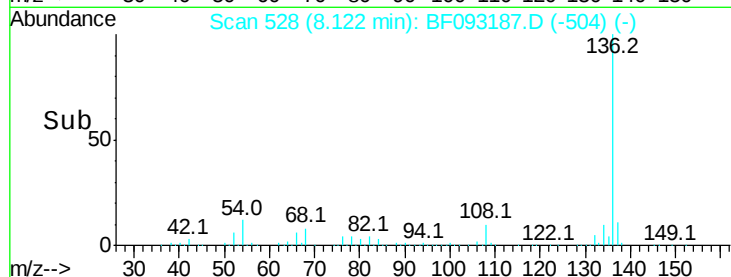
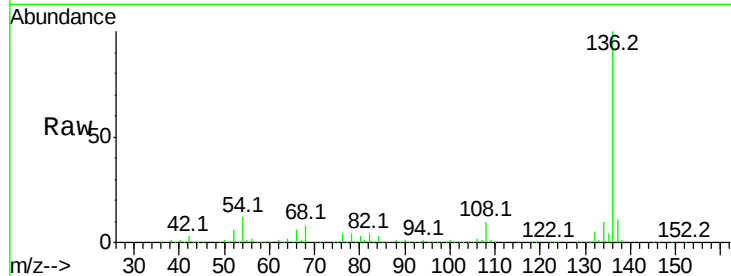
ClientSampleId :

E2-B1-SW-3

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.3	8.4	12.6	
54	12.1	4.5	6.7#	
68	8.4	3.6	5.4#	

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



#23

Nitrobenzene-d5

Concen: 73.23 ng

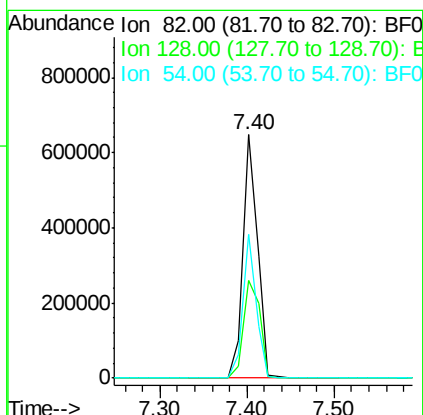
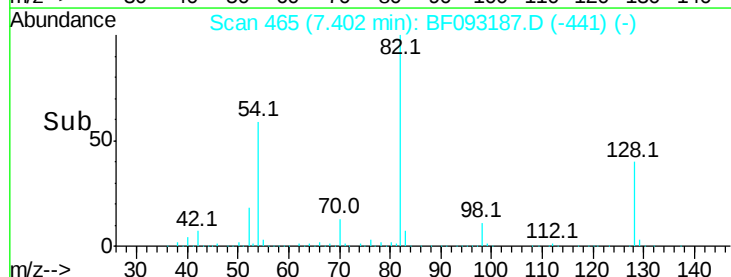
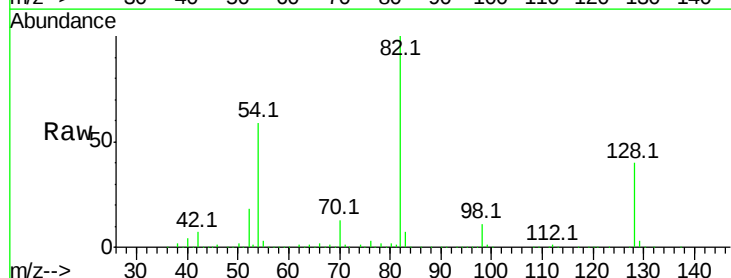
RT: 7.40 min Scan# 465

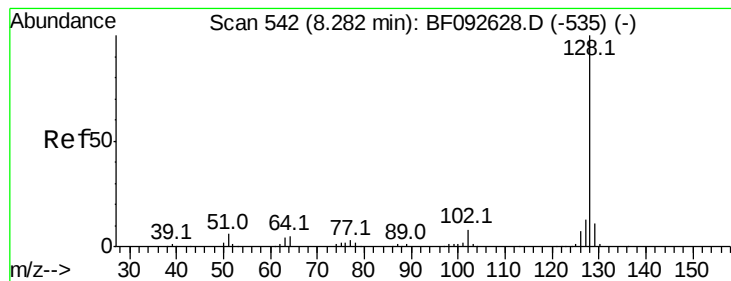
Delta R.T. -0.02 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.2	34.6	52.0	
54	59.2	39.5	59.3	





#31

Naphthalene

Concen: 9.05 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Instrument :

BNA_F

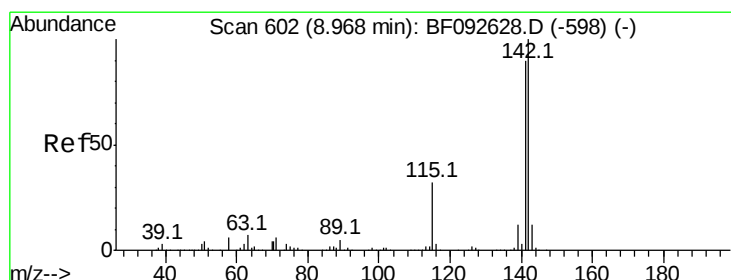
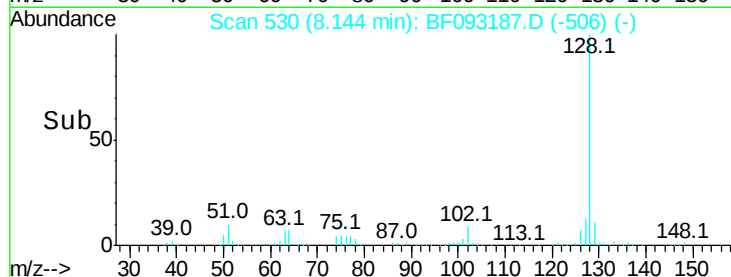
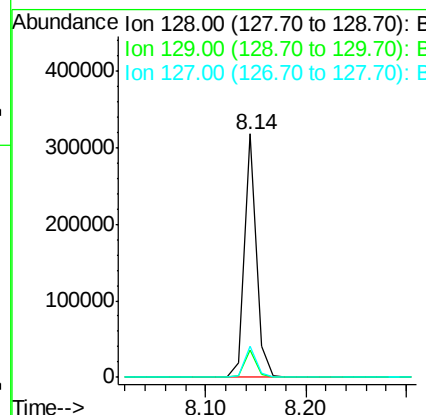
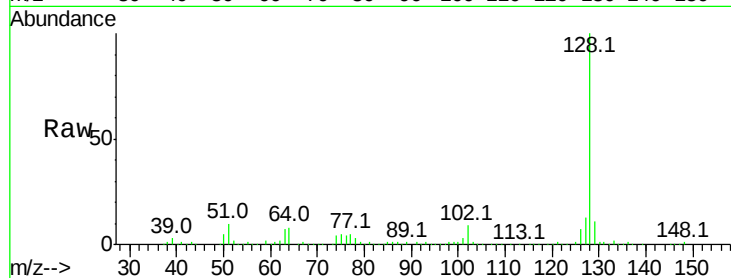
ClientSampleId :

E2-B1-SW-3

Tot Ion:	128	Resp:	262735
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.5	14.3
127	13.0	10.8	16.2

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



#37

2-Methylnaphthalene

Concen: 9.02 ng

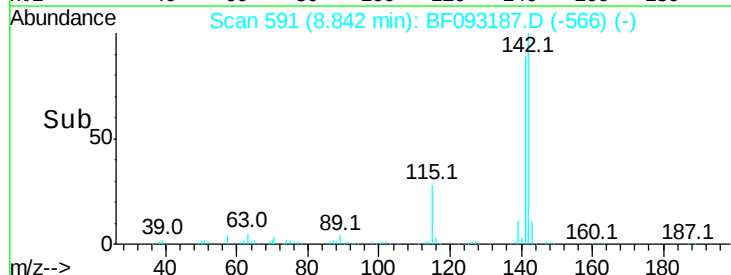
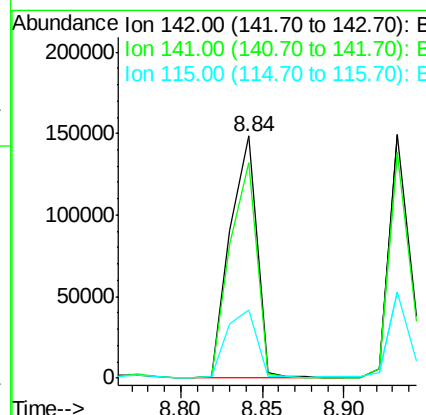
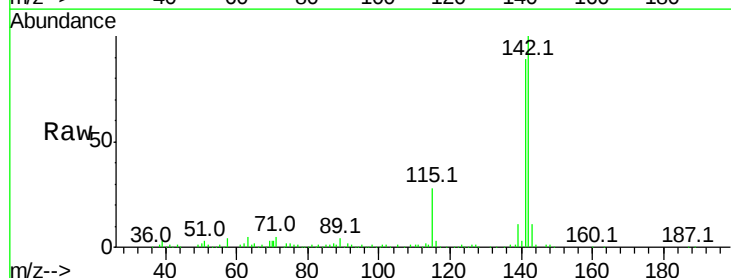
RT: 8.84 min Scan# 591

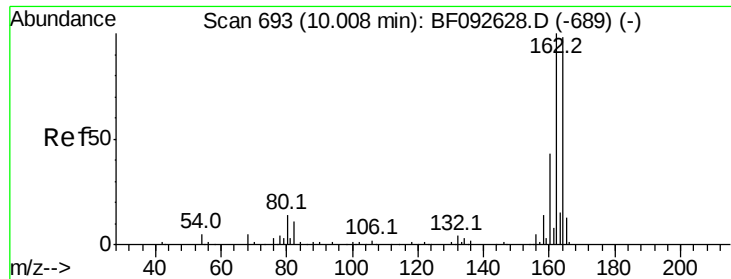
Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Tgt Ion:	142	Resp:	168105
Ion Ratio	Lower	Upper	
142	100		
141	89.1	71.0	106.6
115	28.4	28.3	42.5





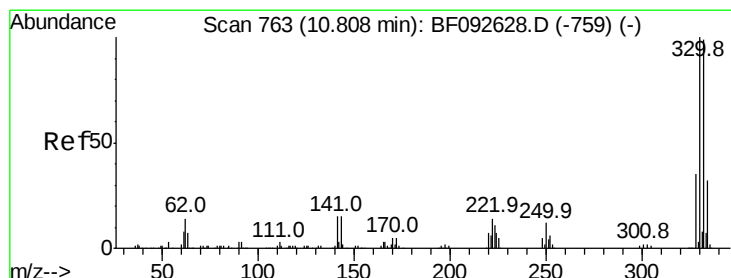
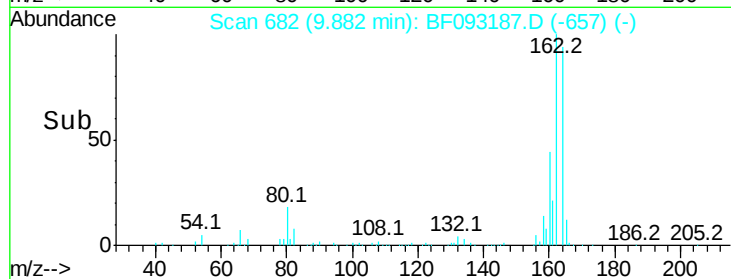
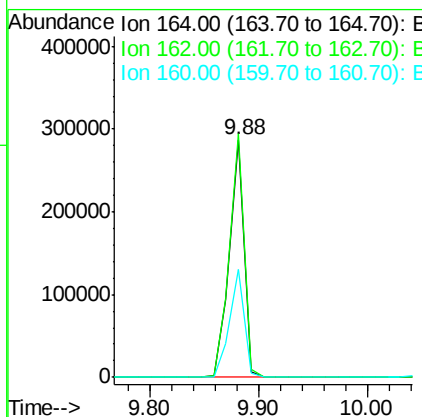
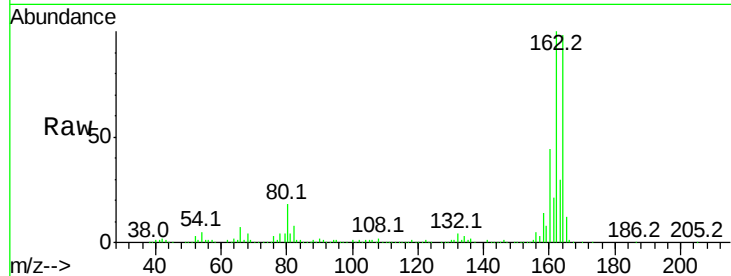
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Resp	Lower	Upper
164	100	268688		
162	102.4	80.2	120.2	
160	45.3	36.9	55.3	

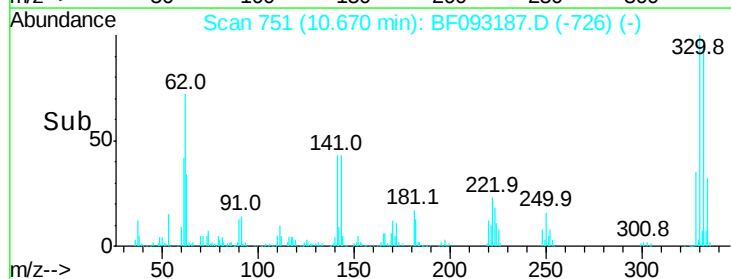
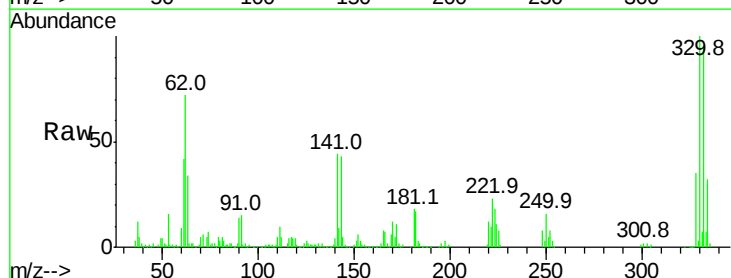
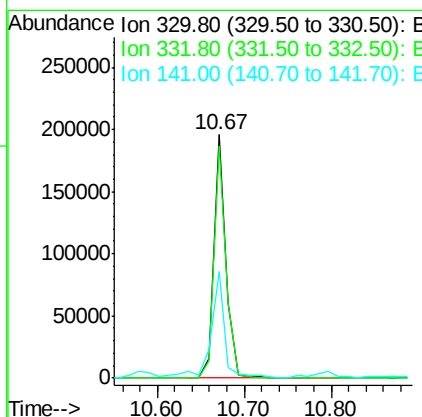
Manual Integrations
APPROVED

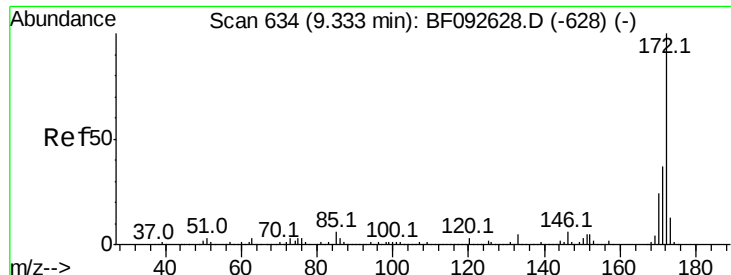
mohammad
2/27/2017 1:08:56 PM



#41
2,4,6-Tribromophenol
Concen: 97.98 ng
RT: 10.67 min Scan# 751
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	190403		
332	95.6	77.4	116.2	
141	47.4	34.1	51.1	





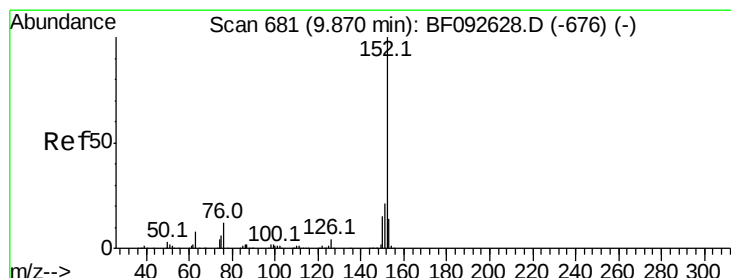
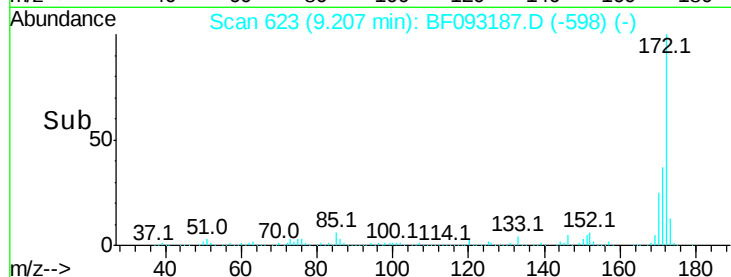
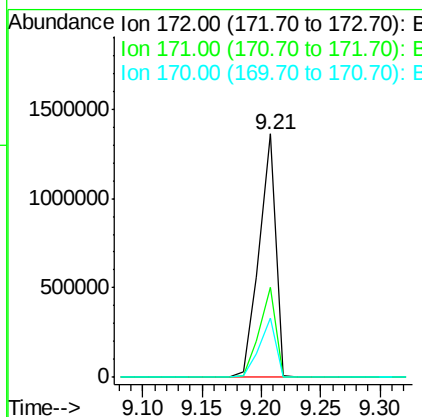
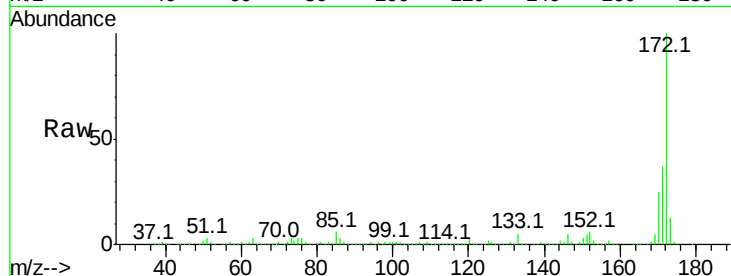
#44
 2-Fluorobiphenyl
 Concen: 91.33 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.4	44.0
170	24.5	20.2	30.4

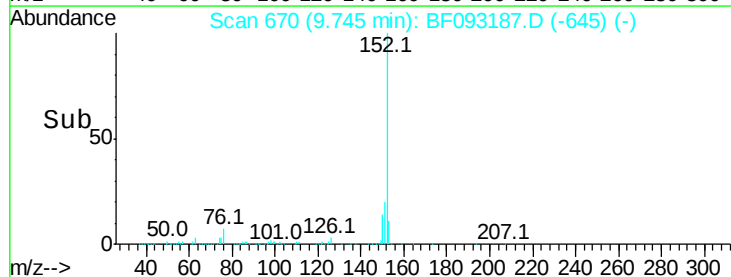
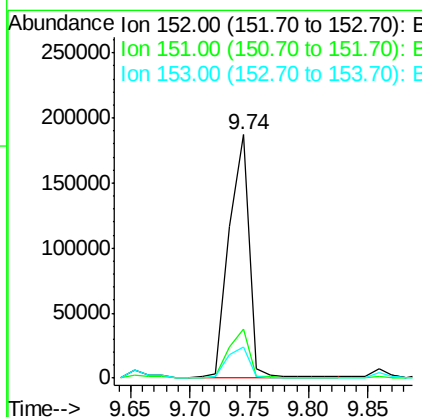
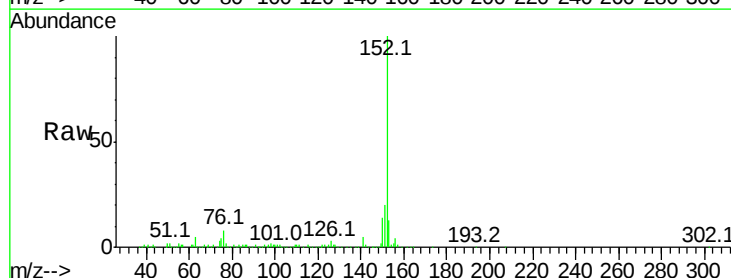
Manual Integrations
 APPROVED

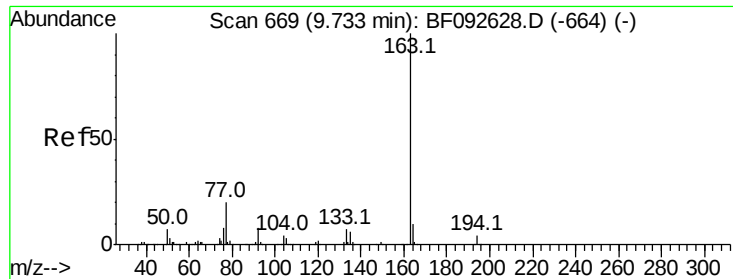
mohammad
 2/27/2017 1:08:56 PM



#48
 Acenaphthylene
 Concen: 8.23 ng
 RT: 9.74 min Scan# 670
 Delta R.T. -0.01 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.9	25.3
153	12.9	11.4	17.2





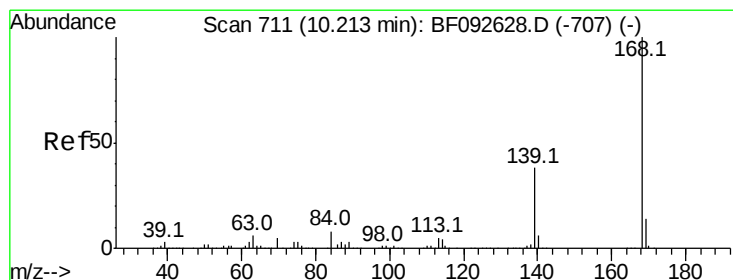
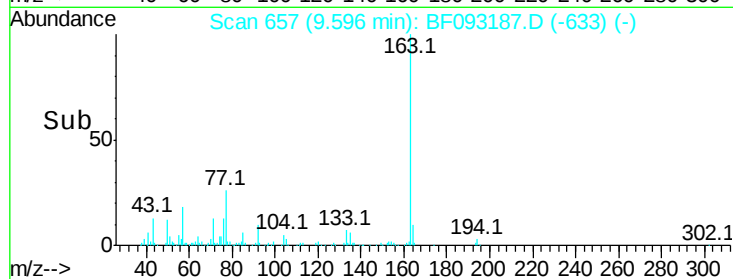
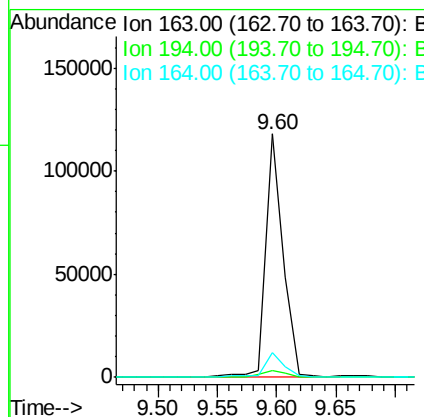
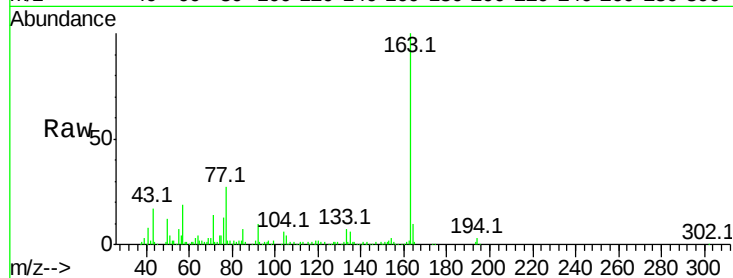
#49
Dimethylphthalate
Concen: 6.53 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	2.8	3.0	4.4#	
164	10.4	8.0	12.0	

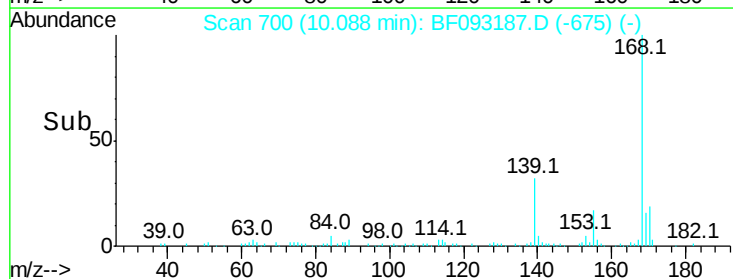
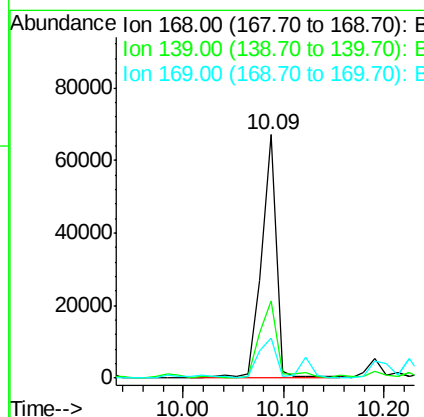
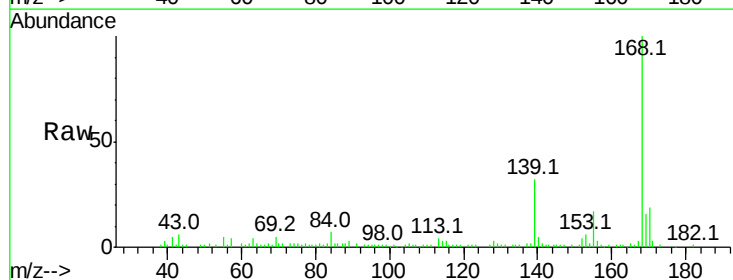
Manual Integrations
APPROVED

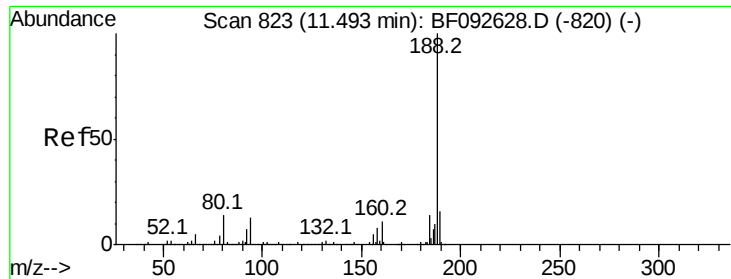
mohammad
2/27/2017 1:08:56 PM



#54
Dibenzofuran
Concen: 3.32 ng
RT: 10.09 min Scan# 700
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	31.6	32.6	49.0#	
169	16.2	11.3	16.9	





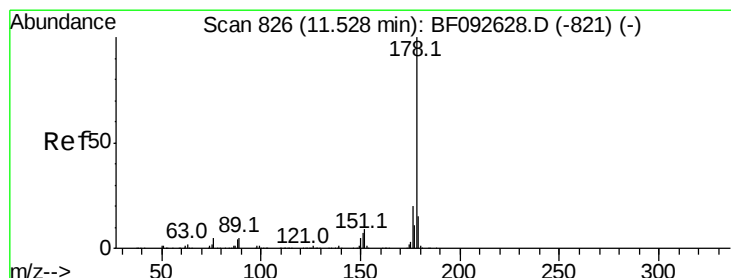
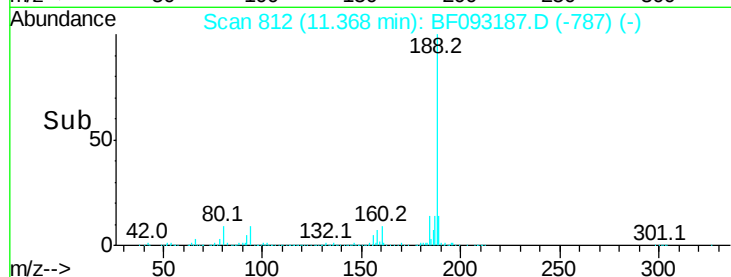
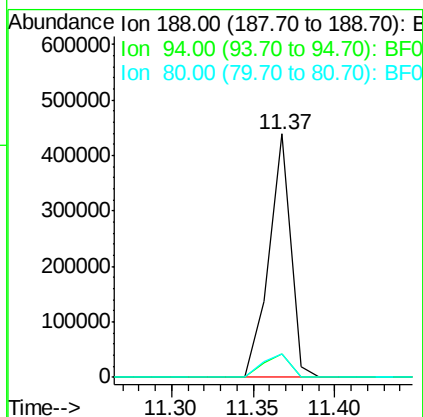
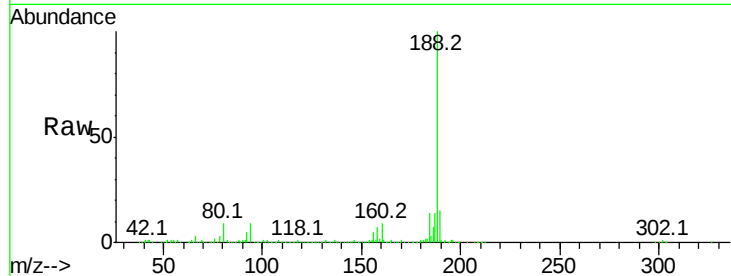
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Resp	Lower	Upper
188	100	409544		
94	9.4	10.0	15.0#	
80	9.4	11.2	16.8#	

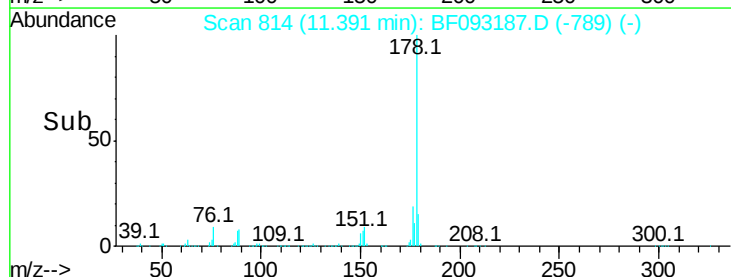
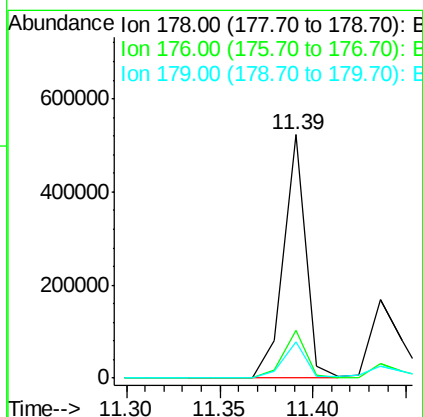
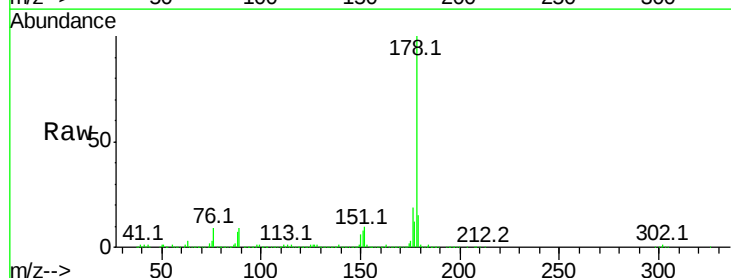
Manual Integrations
APPROVED

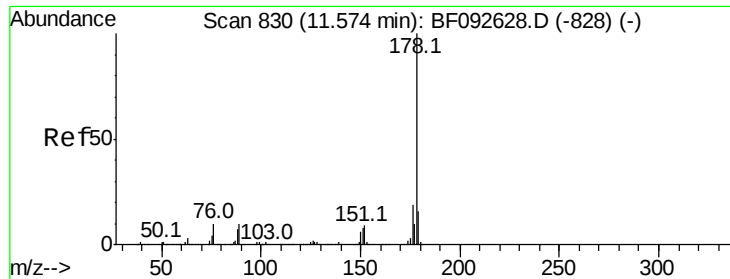
mohammad
2/27/2017 1:08:56 PM



#70
Phenanthrene
Concen: 18.52 ng
RT: 11.39 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	434645		
176	19.5	16.6	25.0	
179	15.1	12.8	19.2	





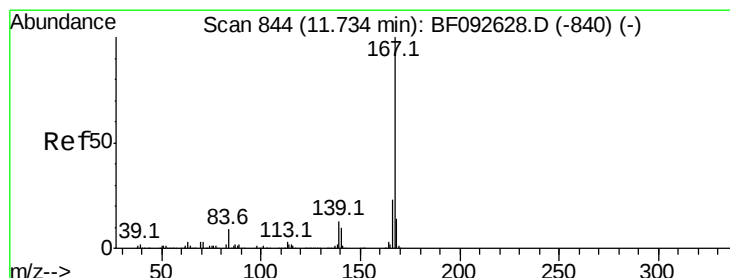
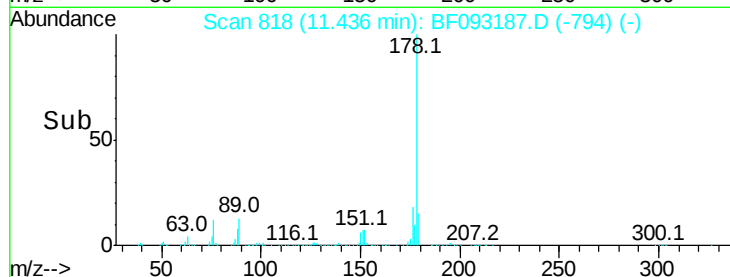
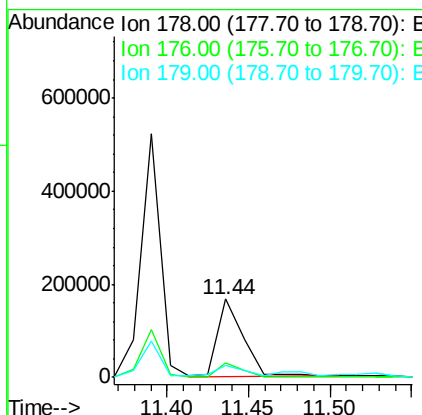
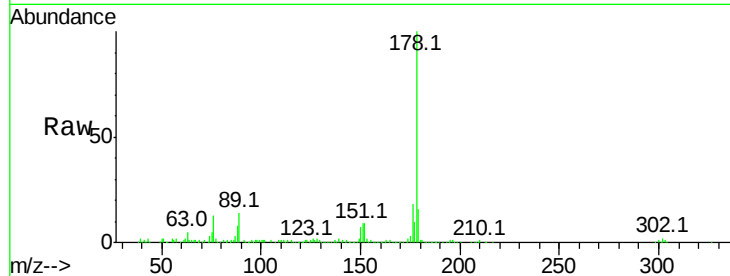
#71
 Anthracene
 Concen: 7.55 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.02 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.9	23.9
179	15.9	13.2	19.8

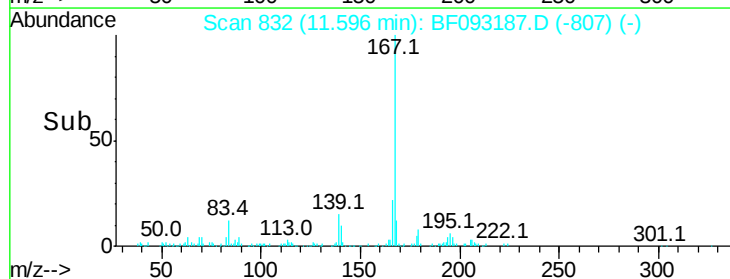
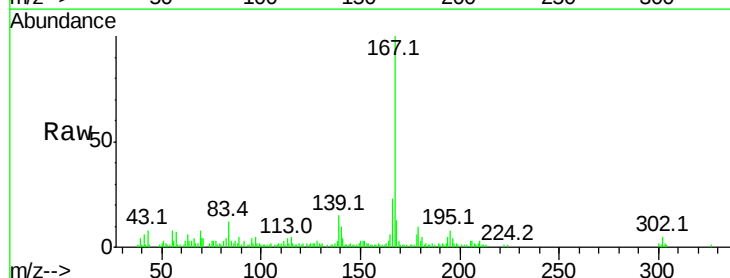
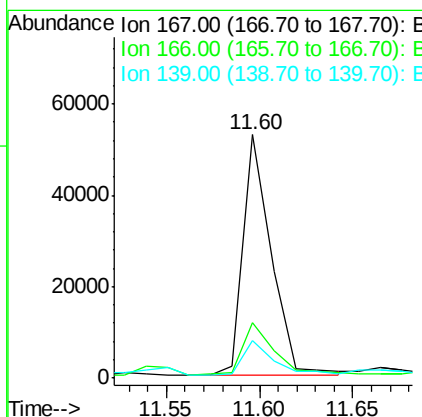
Manual Integrations
 APPROVED

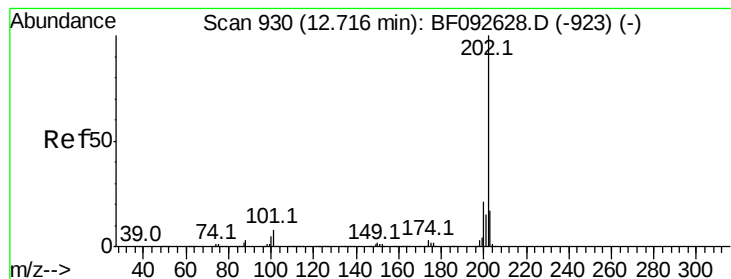
mohammad
 2/27/2017 1:08:56 PM



#72
 Carbazole
 Concen: 2.45 ng
 RT: 11.60 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.2	27.2
139	15.4	11.4	17.2





#74

Fluoranthene

Concen: 35.16 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Instrument :

BNA_F

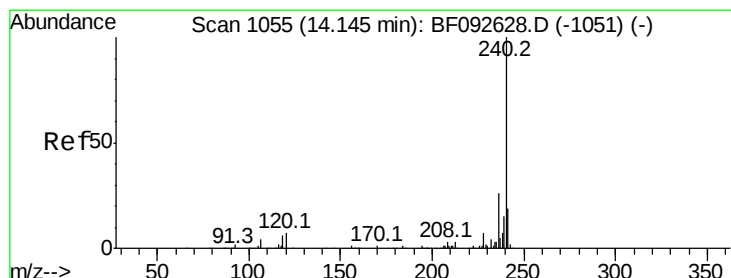
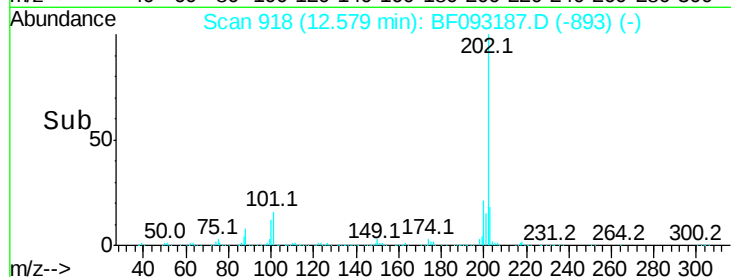
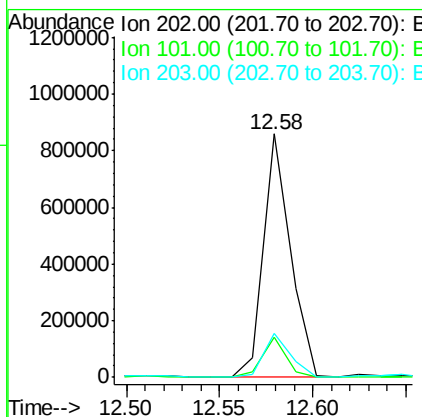
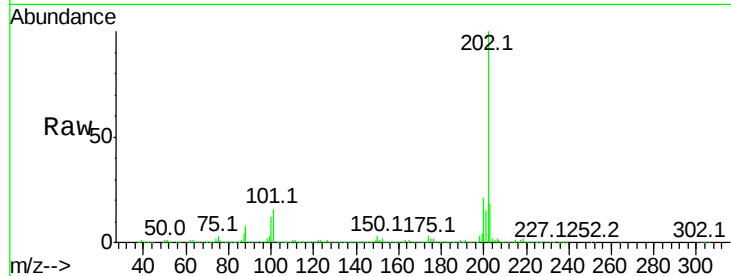
ClientSampleId :

E2-B1-SW-3

Tot Ion	Ratio	Resp	Lower	Upper
202	100	851050		
101	16.2	0.0	34.6	
203	18.0	0.0	38.7	

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



#75

Chrysene-d12

Concen: 20.00 ng

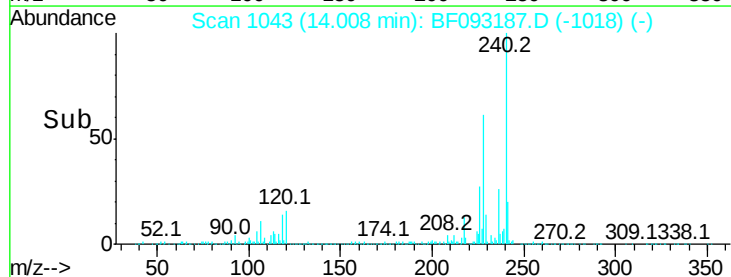
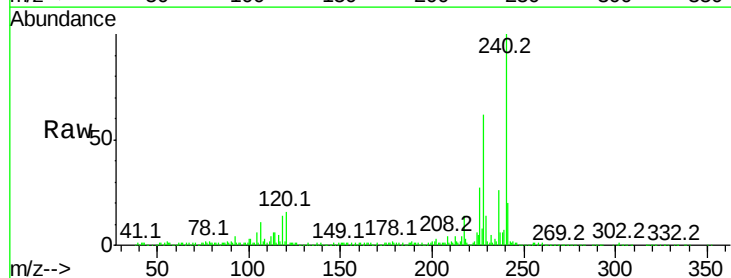
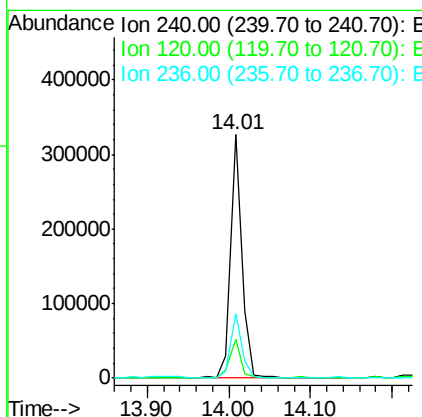
RT: 14.01 min Scan# 1043

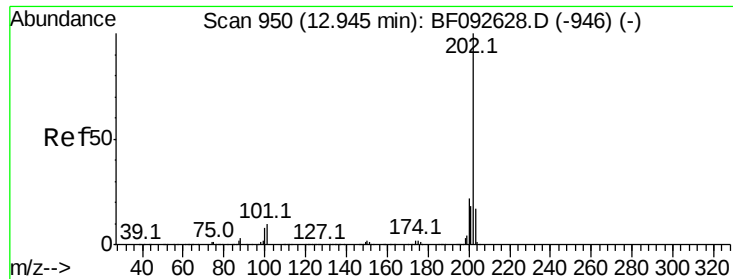
Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	311207		
120	15.8	12.9	19.3	
236	26.2	20.9	31.3	





#77

Pvrene

Concen: 35.23 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Instrument :

BNA_F

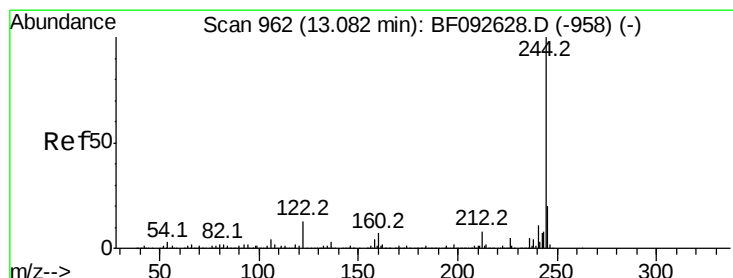
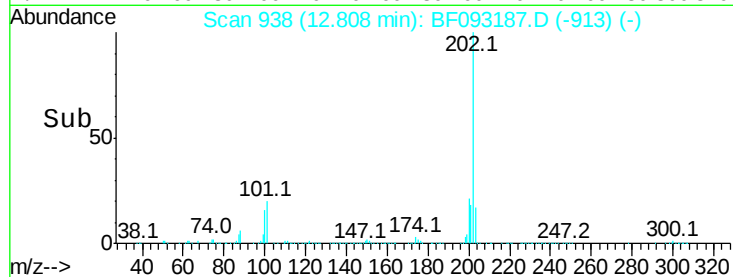
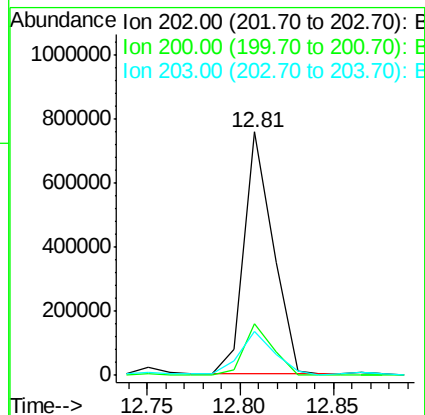
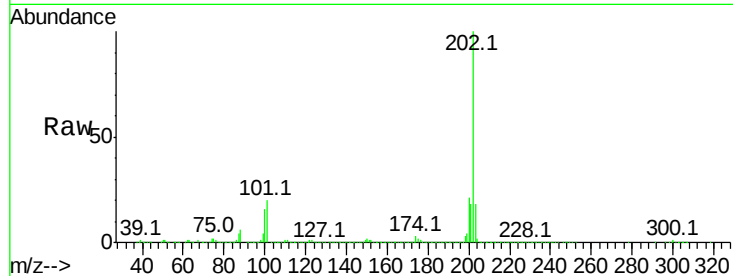
ClientSampleId :

E2-B1-SW-3

Tot Ion:	202	Resp:	820487
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.7	26.5
203	17.9	14.7	22.1

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



#78

Terphenyl-d14

Concen: 68.22 ng

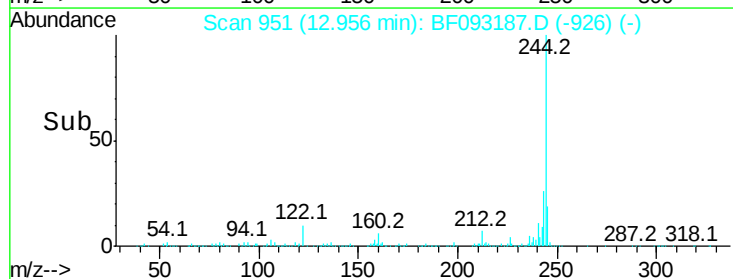
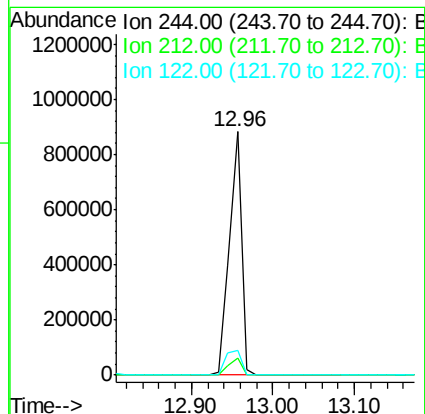
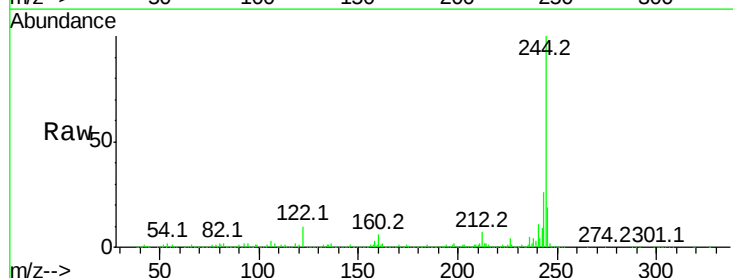
RT: 12.96 min Scan# 951

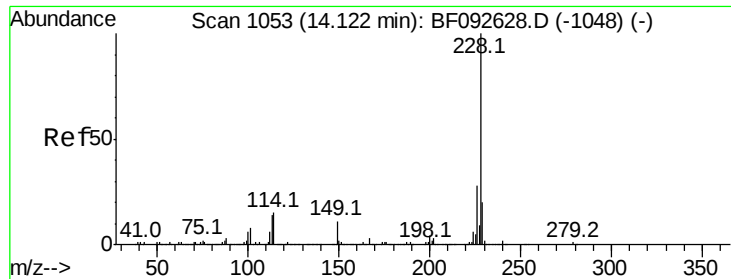
Delta R.T. -0.01 min

Lab File: BF093187.D

Acq: 25 Feb 2017 12:36

Tgt Ion:	244	Resp:	903617
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.2	9.2
122	10.3	11.4	17.2





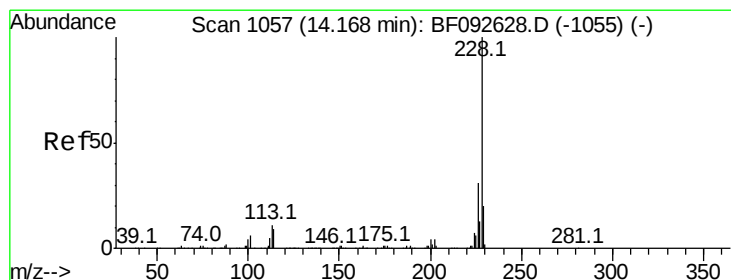
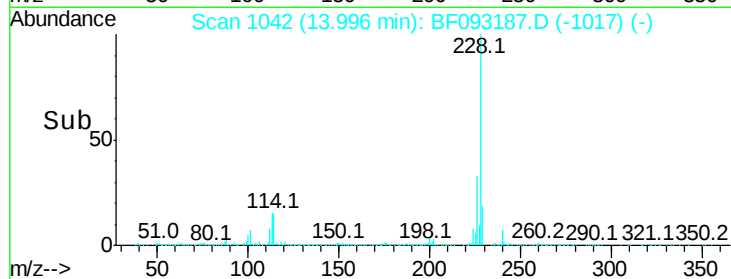
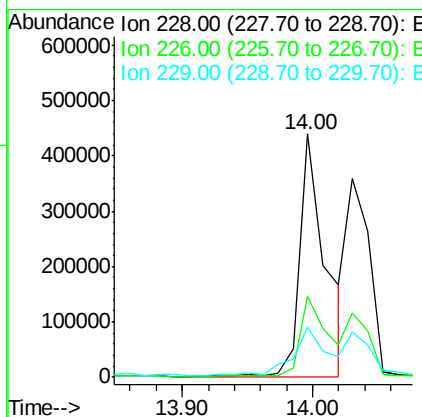
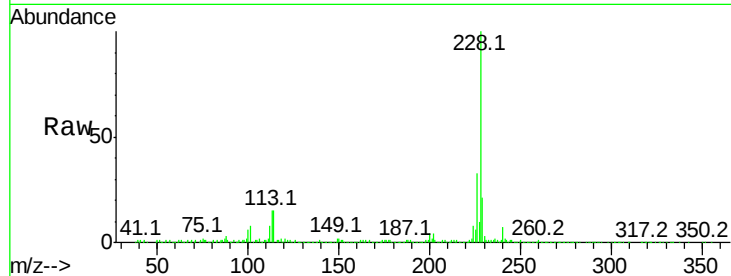
#80
Benzo(a)anthracene
Concen: 31.31 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampled :
E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.4	33.6
229	20.9	16.2	24.4

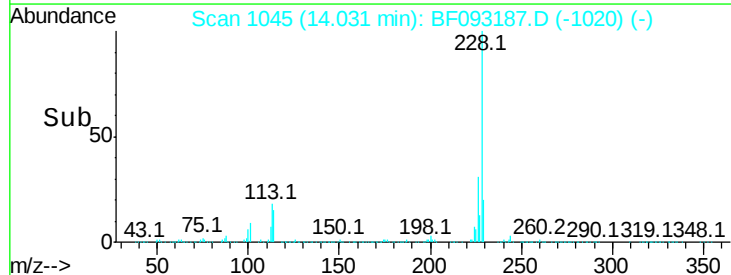
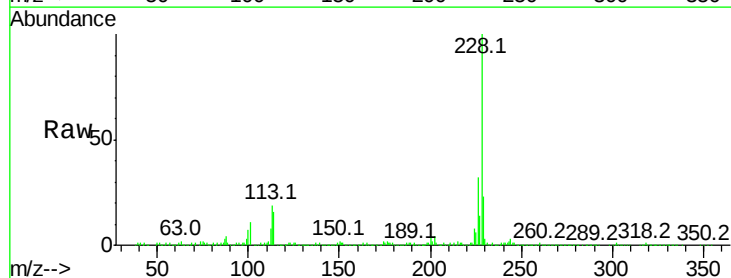
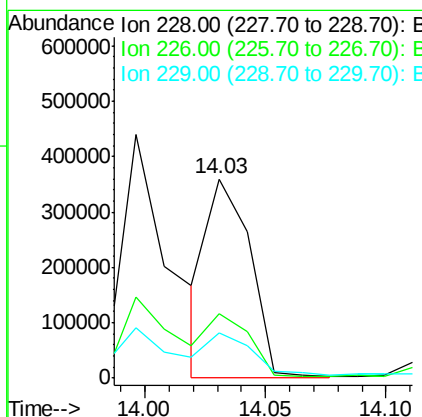
Manual Integrations
APPROVED

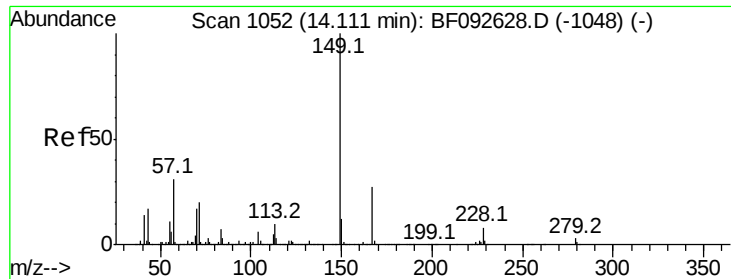
mohammad
2/27/2017 1:08:56 PM



#82
Chrysene
Concen: 24.79 ng m
RT: 14.03 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.4	38.0
229	22.8	16.2	24.2





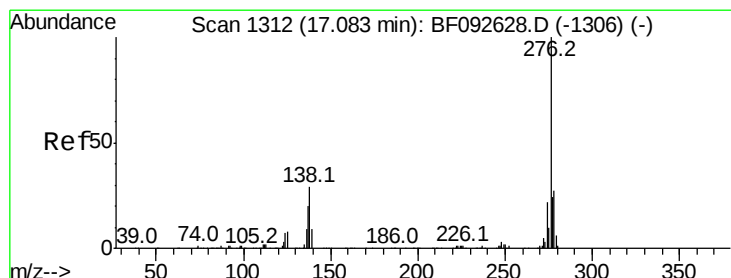
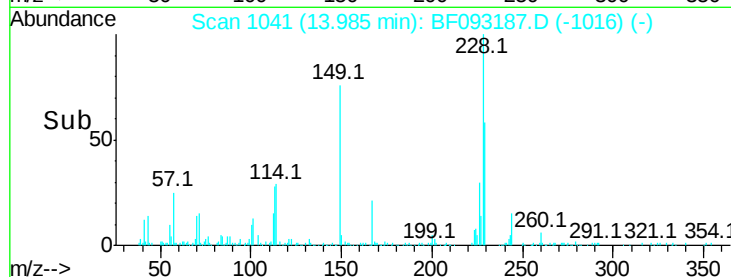
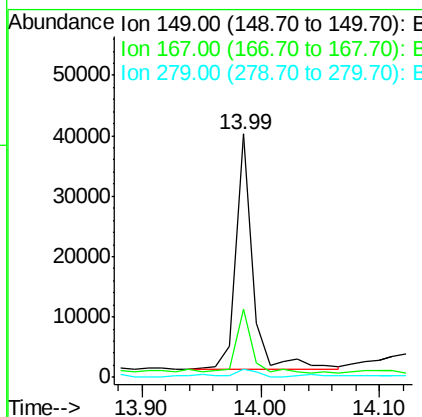
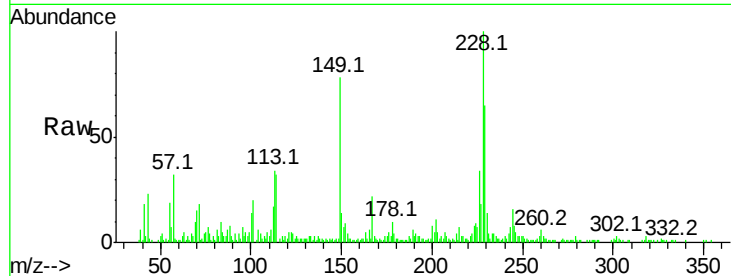
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.95 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. -0.01 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
149	100		
167	28.1	20.2	30.4
279	3.3	1.8	2.8

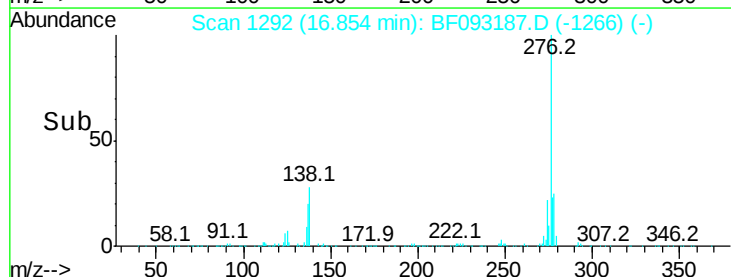
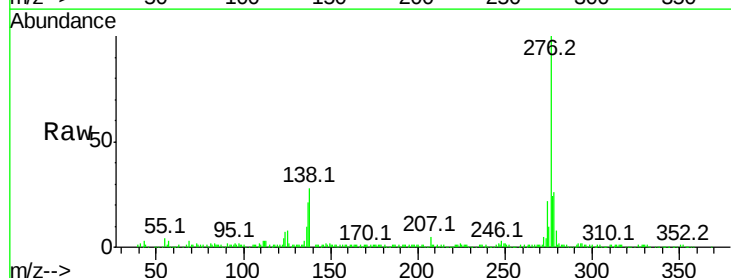
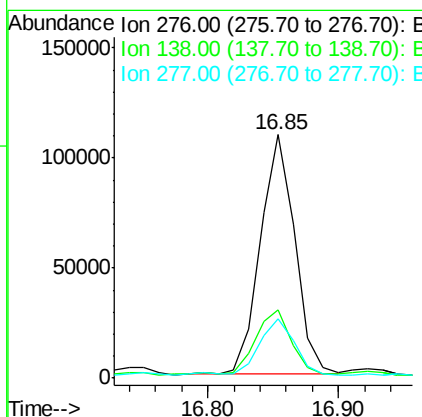
Manual Integrations
 APPROVED

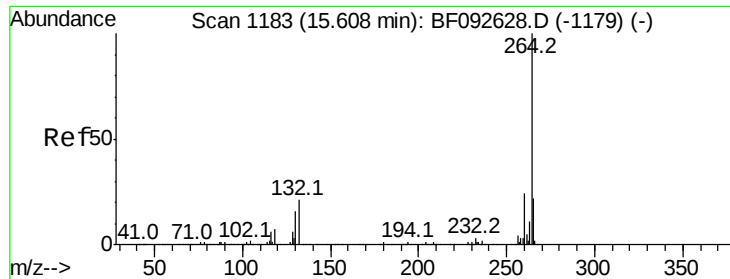
mohammad
 2/27/2017 1:08:56 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.54 ng
 RT: 16.85 min Scan# 1292
 Delta R.T. -0.00 min
 Lab File: BF093187.D
 Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.6	21.8	32.6
277	25.0	20.2	30.4





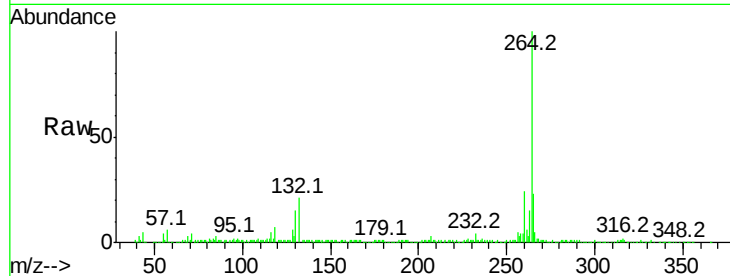
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	23.4	17.4	26.0

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM

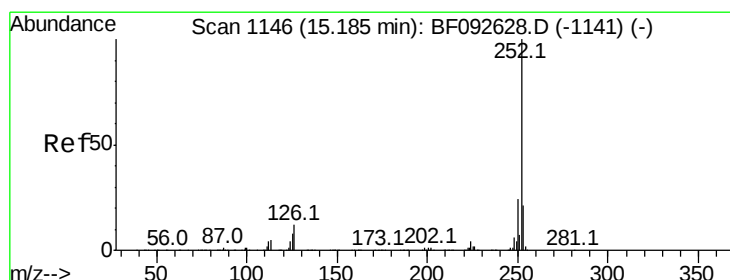
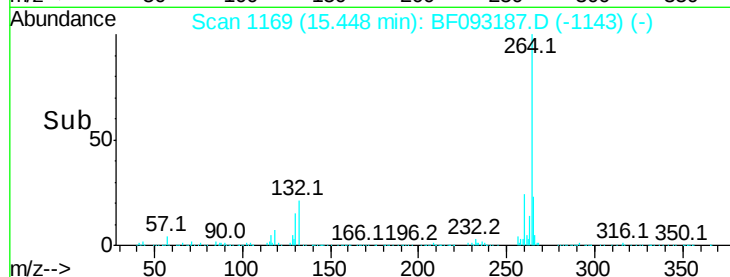
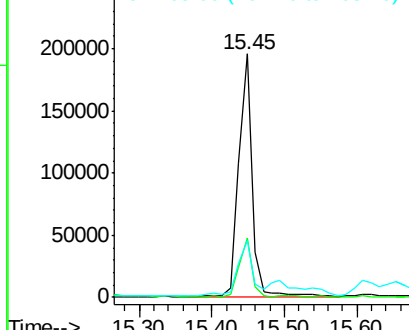


Abundance

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: 38.72 ng m
RT: 15.04 min Scan# 1133
Delta R.T. -0.00 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

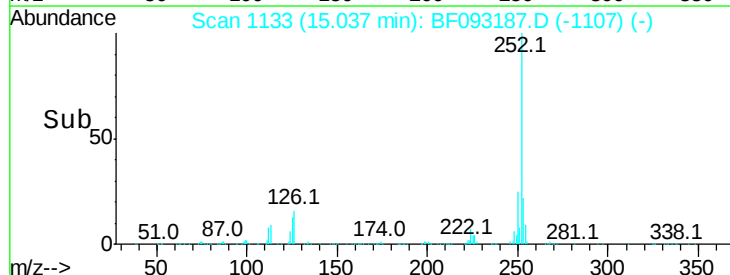
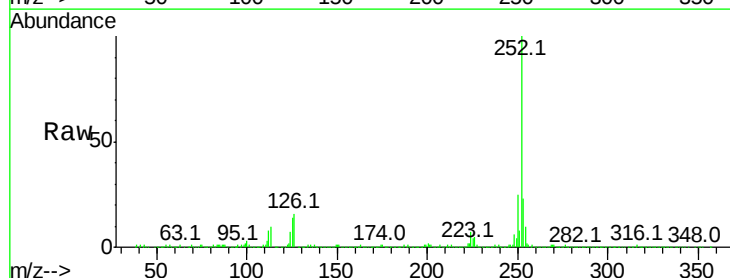
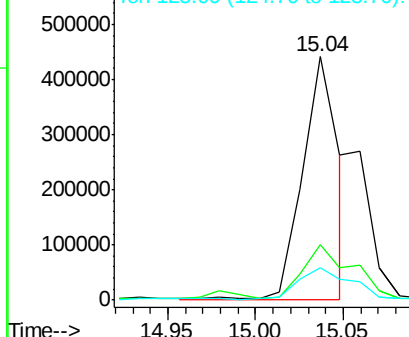
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	13.5	9.8	14.6

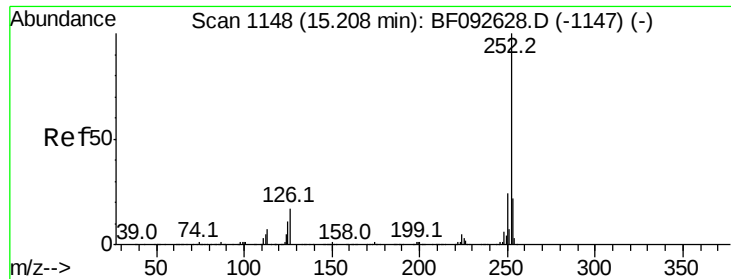
Abundance

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





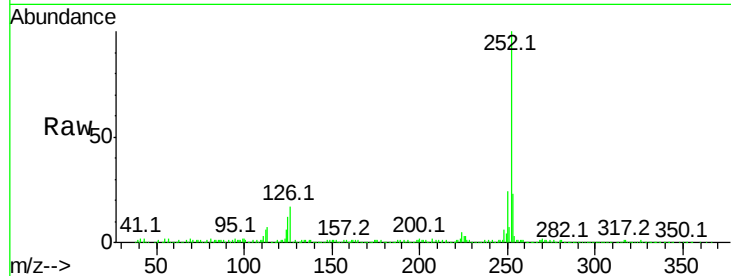
#88
Benzo(k)fluoranthene
Concen: 16.53 ng m
RT: 15.06 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

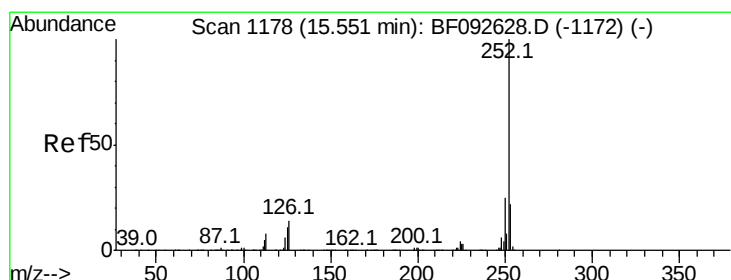
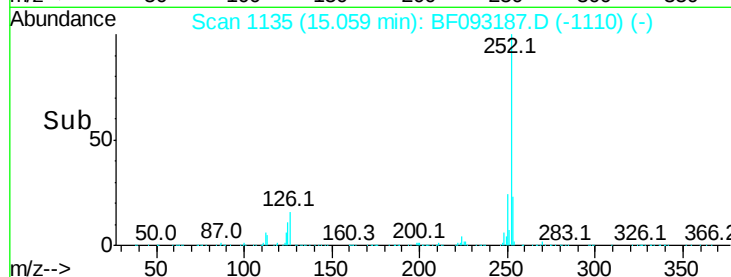
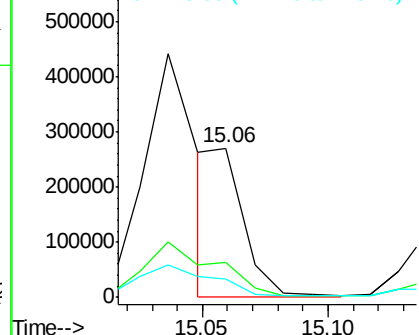
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	12.2	8.9	13.3

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



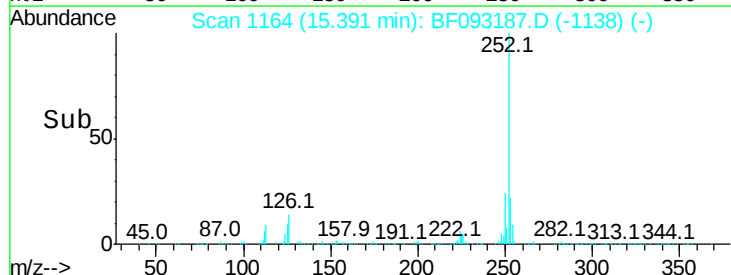
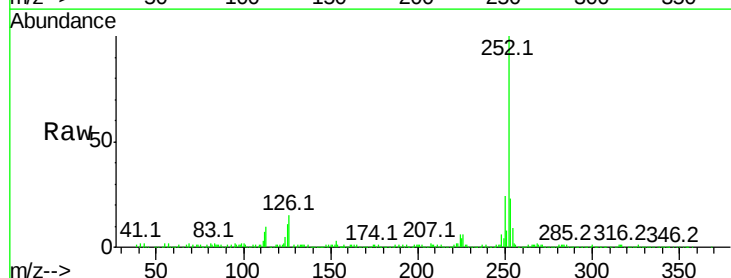
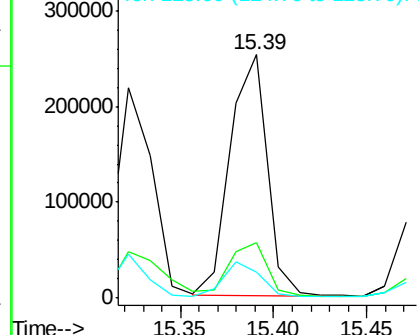
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

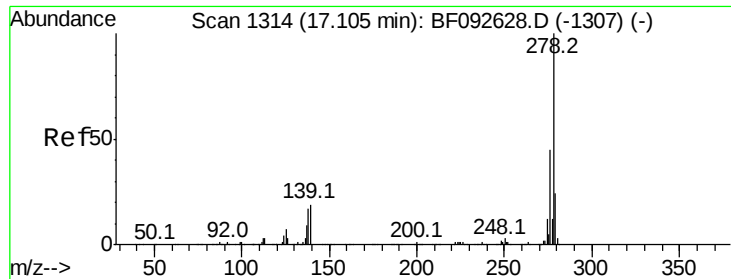


#89
Benzo(a)pyrene
Concen: 24.54 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.00 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	10.7	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





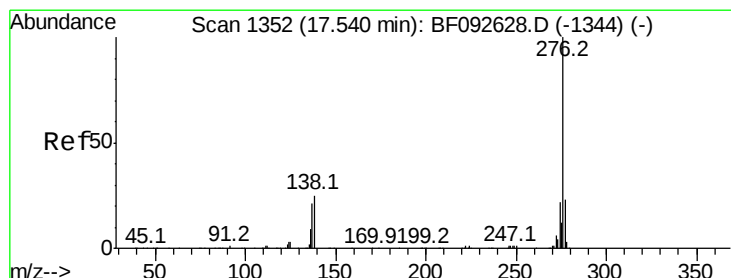
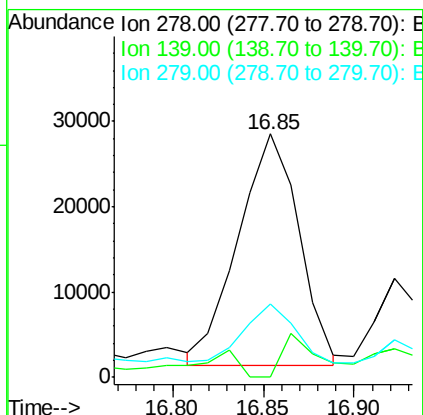
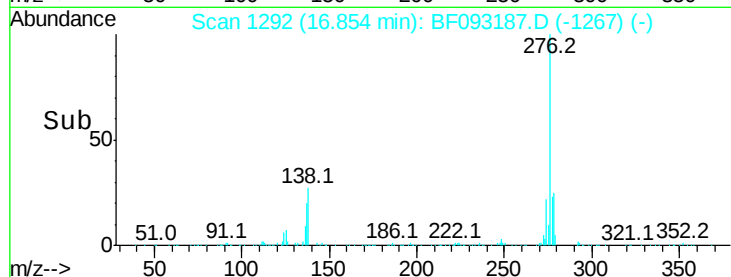
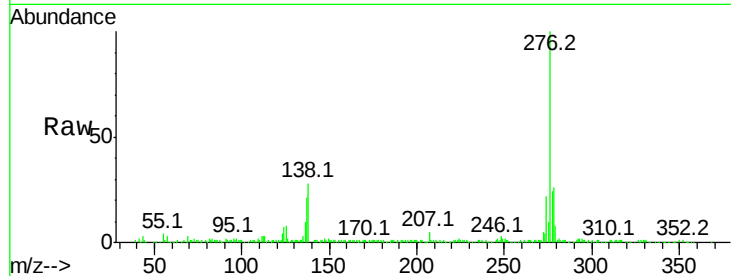
#90
Dibenzo(a,h)anthracene
Concen: 5.43 ng m
RT: 16.85 min Scan# 1292
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	30.3	19.8	29.6#

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:56 PM



#91
Benzo(g,h,i)perylene
Concen: 15.78 ng
RT: 17.28 min Scan# 1329
Delta R.T. -0.01 min
Lab File: BF093187.D
Acq: 25 Feb 2017 12:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.5	19.2	28.8
138	29.4	16.0	24.0#

