

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093470.D
 Acq On : 9 Mar 2017 11:44
 Operator : SJ/MA
 Sample : I2126-03
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z7-BASE

Manual Integrations
 APPROVED

mohammad
 3/10/2017 8:13:07 AM

Quant Time: Mar 09 13:09:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	188583	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	671808	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	303752	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	438892	20.00	ng	0.01
75) Chrysene-d12	13.93	240	392074	20.00	ng	0.01
86) Perylene-d12	15.35	264	307446	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	1204170	106.27	ng	0.00
7) Phenol-d6	6.41	99	1538774	107.69	ng	0.00
23) Nitrobenzene-d5	7.34	82	986110	81.44	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	198159	100.13	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	1160206	71.05	ng	0.00
78) Terphenyl-d14	12.87	244	637832	42.30	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.44	94	119608	6.83	ng	# 76
17) 2-Methylphenol	7.04	107	136330	12.70	ng	98
20) 3+4-Methylphenols	7.20	107	319739	22.96	ng	# 69
27) 2,4-Dimethylphenol	7.73	122	218302	21.61	ng	98
29) 2,4-Dichlorophenol	7.94	162	24618	2.59	ng	93
31) Naphthalene	8.07	128	930227	27.63	ng	98
37) 2-Methylnaphthalene	8.77	142	356988	16.67	ng	98
45) 1,1'-Biphenyl	9.22	154	64973	2.94	ng	94
49) Dimethylphthalate	9.53	163	366829	18.22	ng	99
51) Acenaphthene	9.84	154	122428	7.41	ng	91
54) Dibenzofuran	10.01	168	242754	11.74	ng	94
57) Fluorene	10.36	166	185883	10.61	ng	98
70) Phenanthrene	11.32	178	290189	11.58	ng	99
72) Carbazole	11.53	167	165283	6.94	ng	98
74) Fluoranthene	12.50	202	151176	6.25	ng	98
77) Pyrene	12.73	202	129315	4.54	ng	99
80) Benzo(a)anthracene	13.92	228	61247m	2.65	ng	
82) Chrysene	13.96	228	67036m	3.13	ng	
87) Benzo(b)fluoranthene	14.95	252	74698m	3.99	ng	
89) Benzo(a)pyrene	15.29	252	41742	2.44	ng	# 91

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

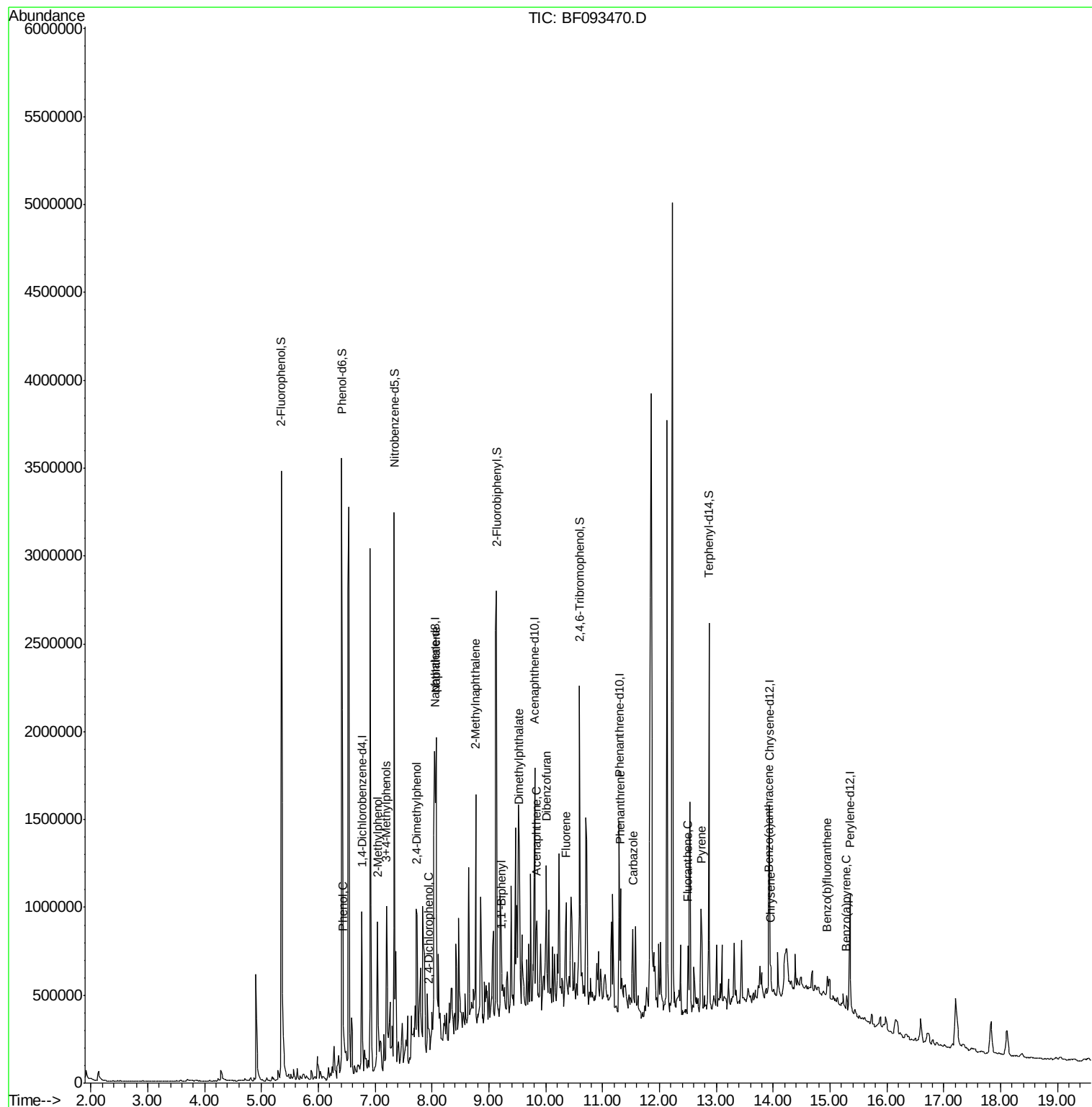
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
Data File : BF093470.D
Acq On : 9 Mar 2017 11:44
Operator : SJ/MA
Sample : I2126-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

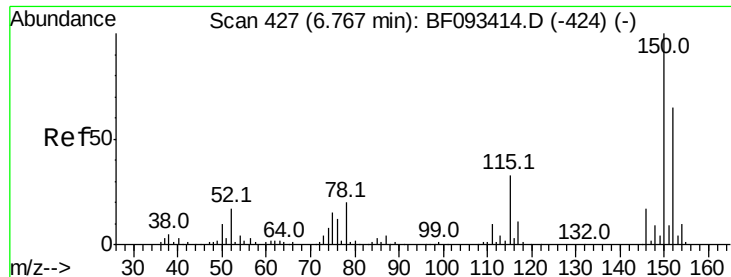
Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM

Quant Time: Mar 09 13:09:39 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 07 15:55:22 2017
Response via : Initial Calibration





#1

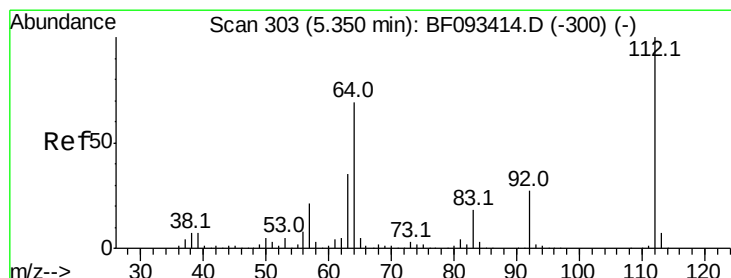
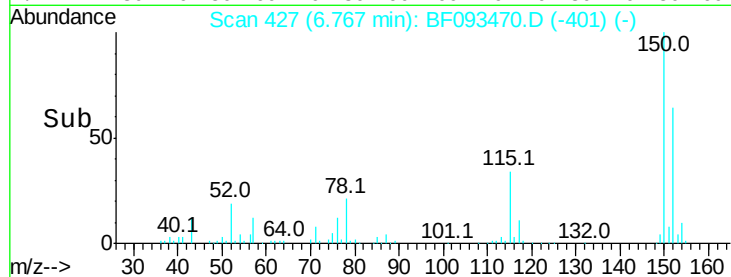
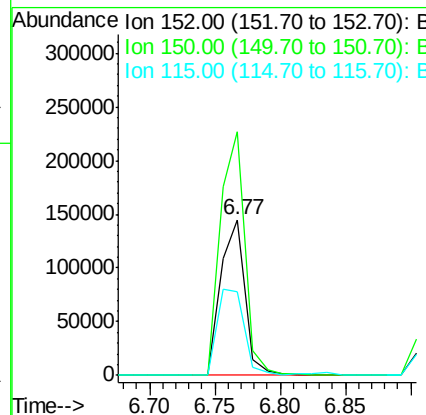
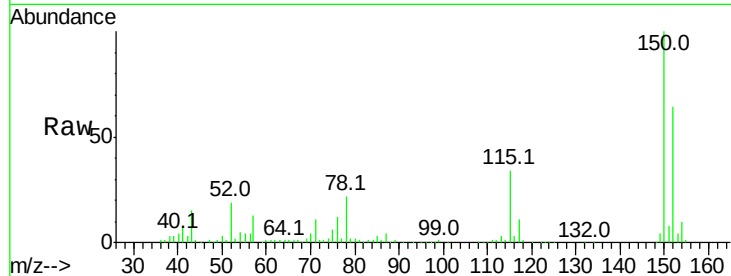
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.9	187.3
115	53.7	46.0	69.0

Manual Integrations
APPROVED

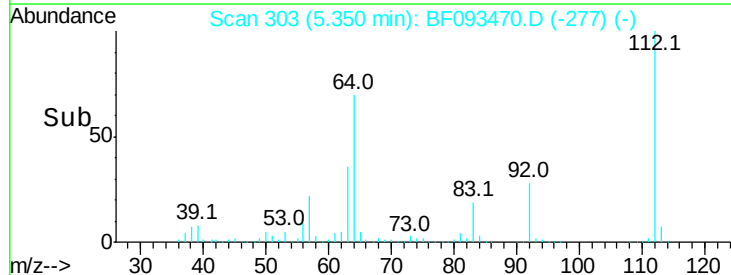
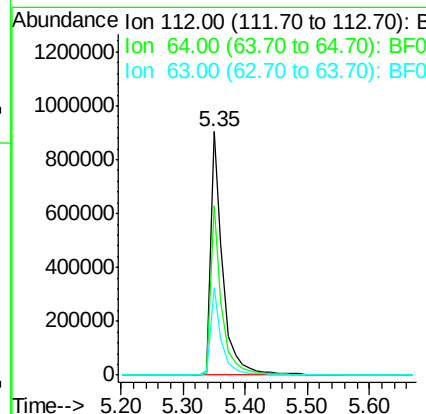
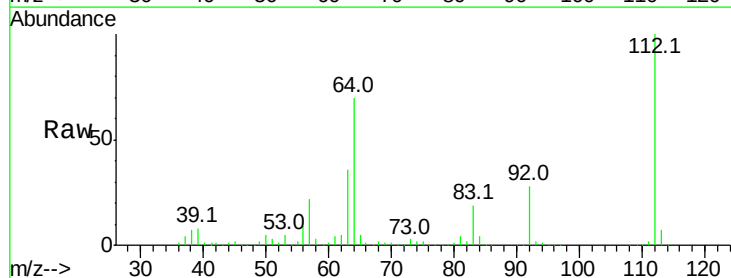
mohammad
3/10/2017 8:13:07 AM

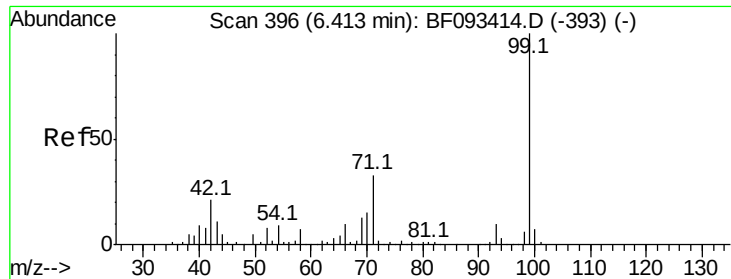


#5

2-Fluorophenol
Concen: 106.27 ng
RT: 5.35 min Scan# 303
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.8	46.1	69.1#
63	35.9	23.8	35.6#





#7

Phenol-d6

Concen: 107.69 ng

RT: 6.41 min Scan# 396

Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

ClientSampleId :

E2-Z7-BASE

Tot Ion: 99 Resp: 1538774

Ion Ratio Lower Upper

99 100

42 22.1 15.6 23.4

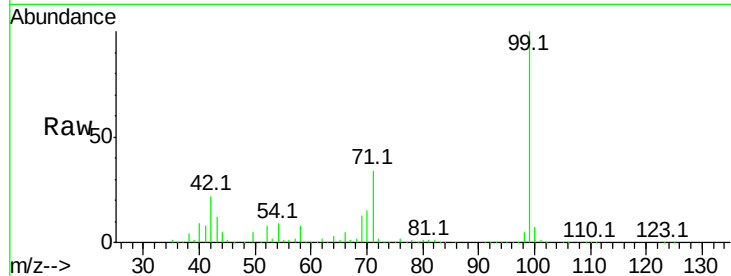
71 34.3 27.5 41.3

Manual Integrations

APPROVED

mohammad

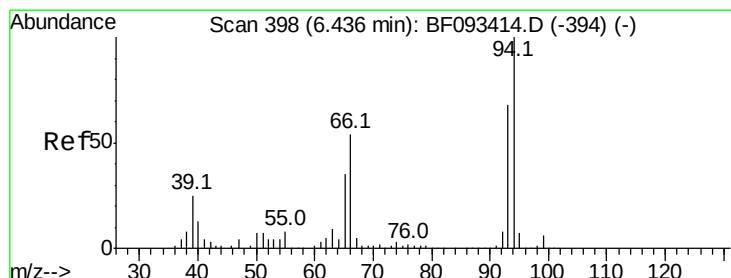
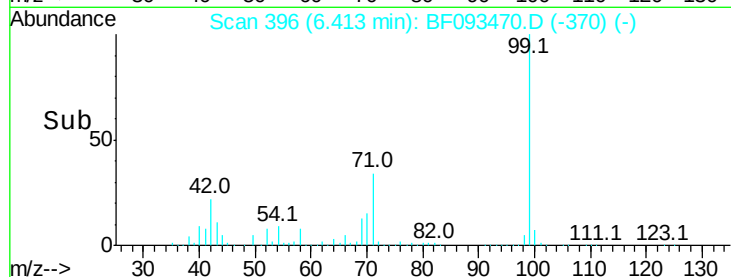
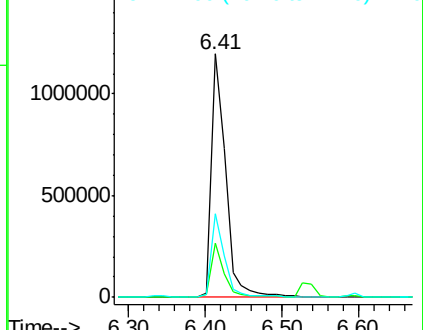
3/10/2017 8:13:07 AM



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: 6.83 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

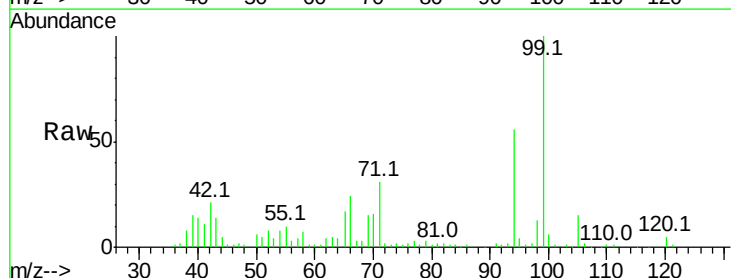
Tgt Ion: 94 Resp: 119608

Ion Ratio Lower Upper

94 100

65 30.0 21.4 61.4

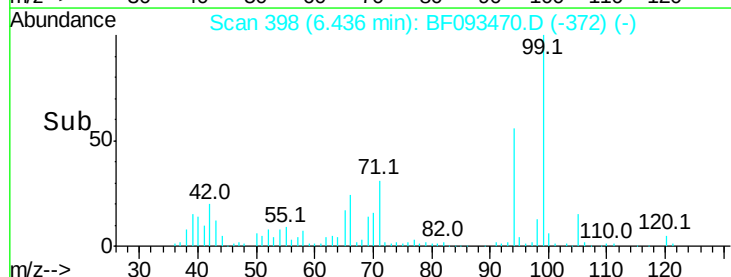
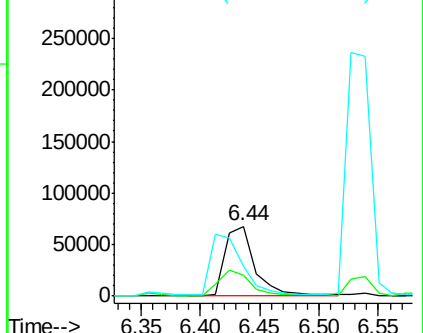
66 42.3 44.0 84.0#

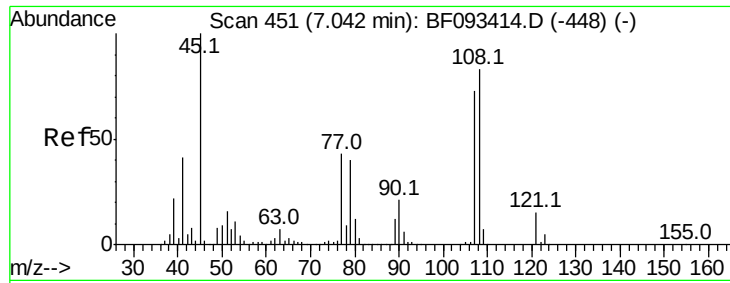


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





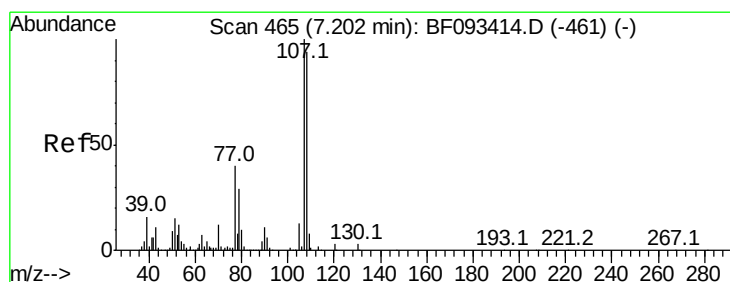
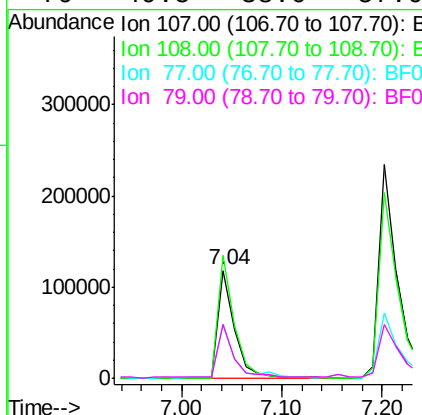
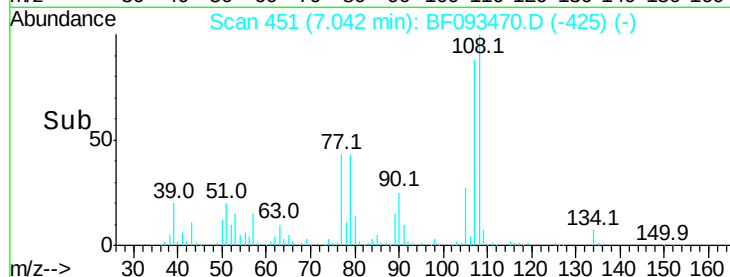
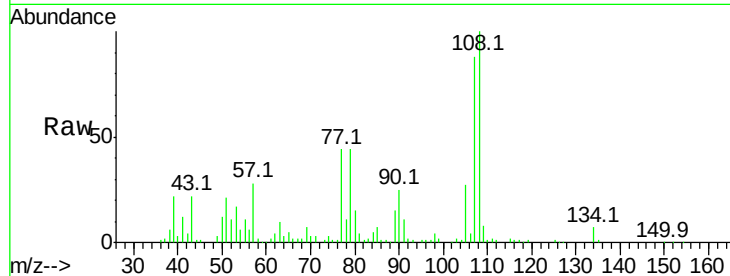
#17
2-Methylphenol
Concen: 12.70 ng
RT: 7.04 min Scan# 451
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	107	100	136330		
108	108	113.5	93.0	139.6	
77	77	49.4	39.8	59.8	
79	79	49.5	38.0	57.0	

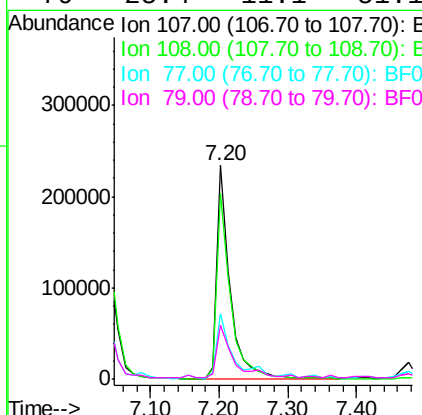
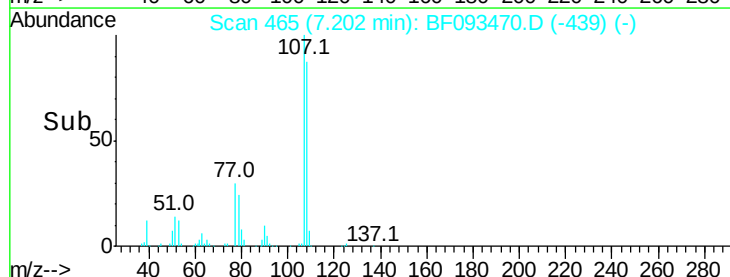
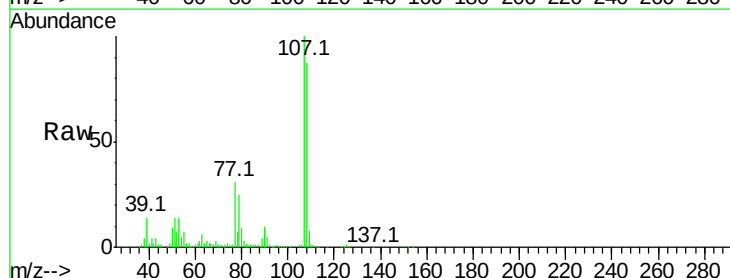
Manual Integrations
APPROVED

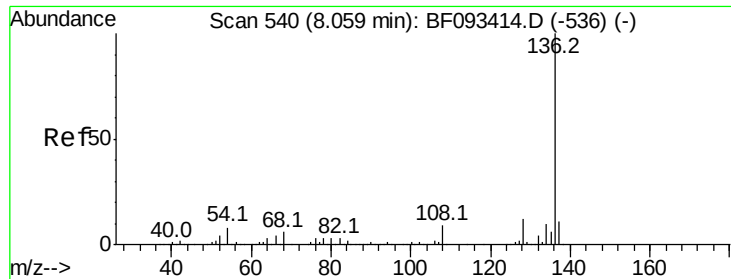
mohammad
3/10/2017 8:13:07 AM



#20
3+4-Methylphenols
Concen: 22.96 ng
RT: 7.20 min Scan# 465
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	107	100	319739		
108	108	86.7	73.0	113.0	
77	77	30.6	71.3	111.3#	
79	79	25.4	11.1	51.1	





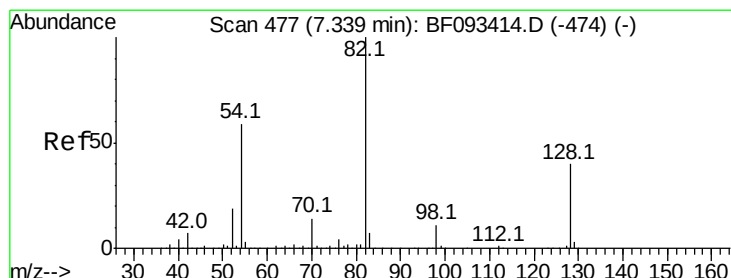
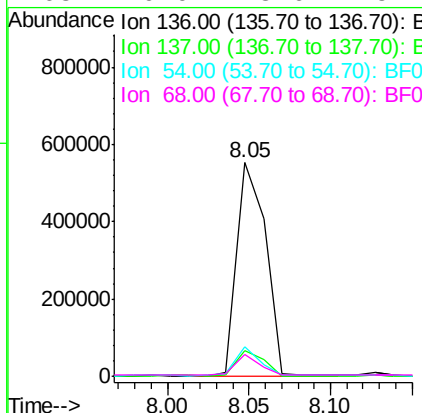
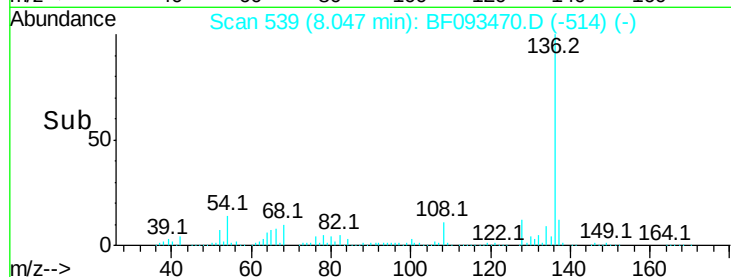
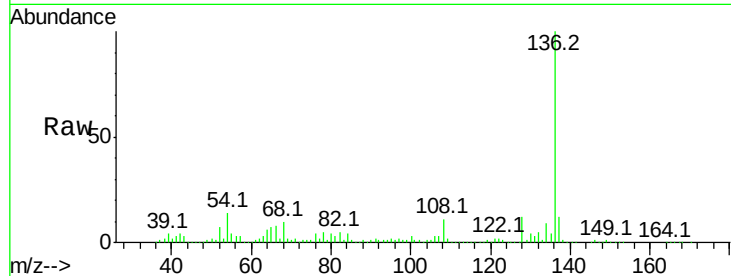
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.05 min Scan# 539
Delta R.T. -0.01 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.9	8.4	12.6	
54	14.0	4.5	6.7#	
68	10.0	3.6	5.4#	

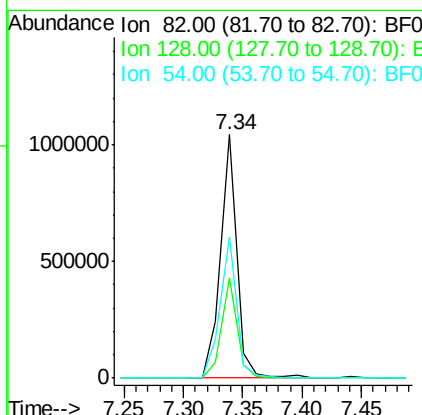
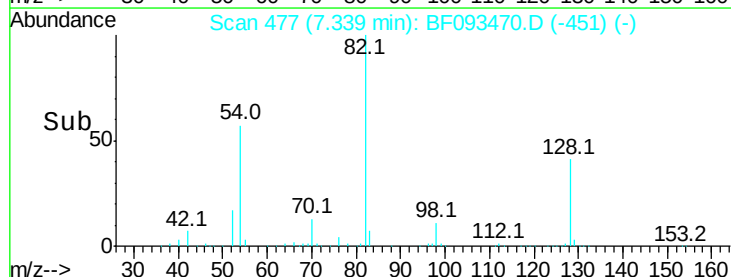
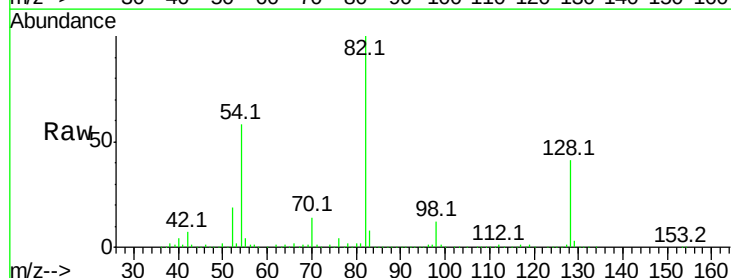
Manual Integrations
APPROVED

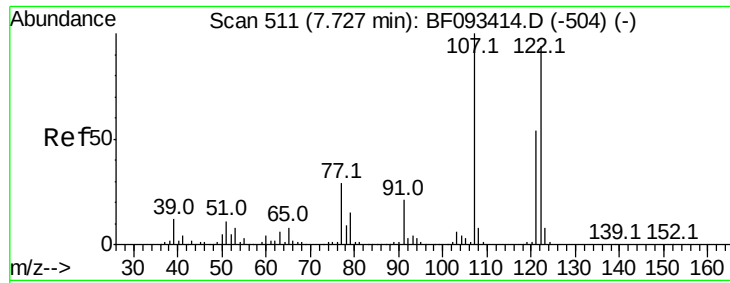
mohammad
3/10/2017 8:13:07 AM



#23
Nitrobenzene-d5
Concen: 81.44 ng
RT: 7.34 min Scan# 477
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	41.3	34.6	52.0	
54	57.8	39.5	59.3	





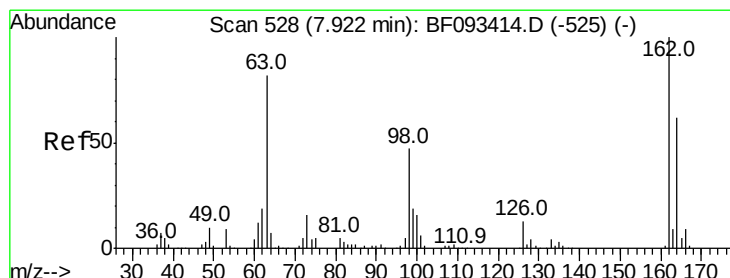
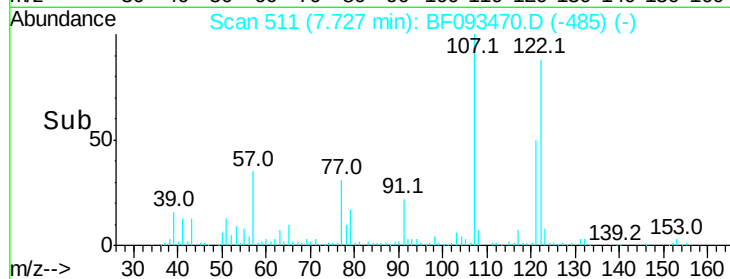
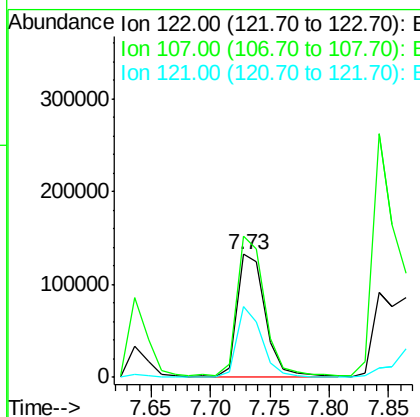
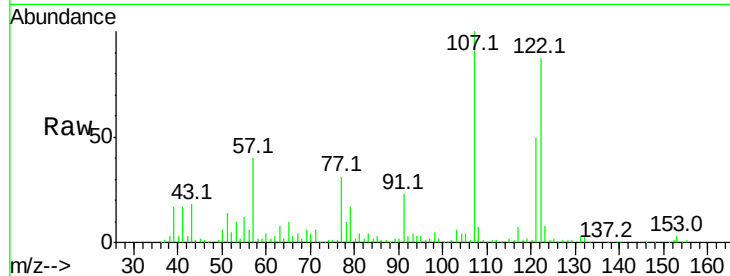
#27
2,4-Dimethylphenol
Concen: 21.61 ng
RT: 7.73 min Scan# 511
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
122	100	218302		
107	114.3	94.1	141.1	
121	57.0	46.0	69.0	

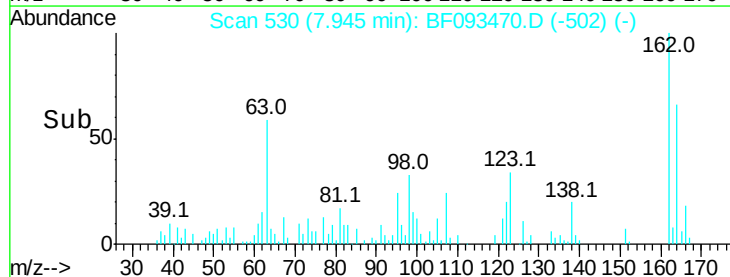
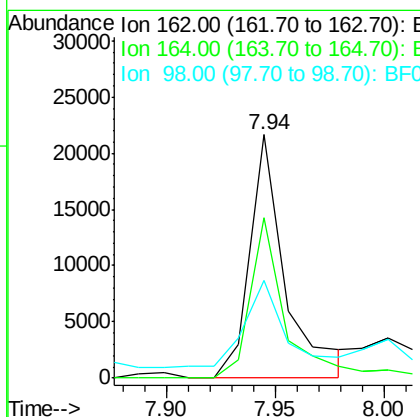
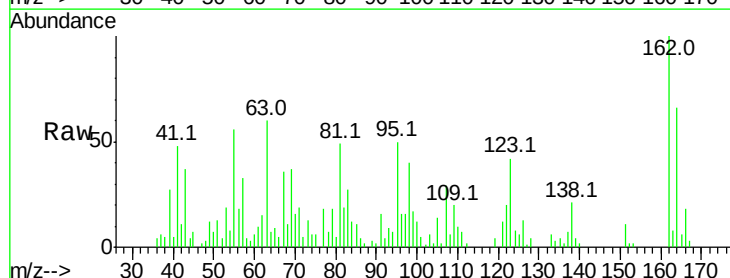
Manual Integrations
APPROVED

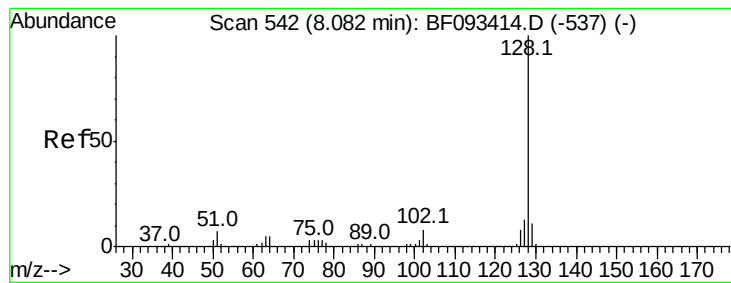
mohammad
3/10/2017 8:13:07 AM



#29
2,4-Dichlorophenol
Concen: 2.59 ng
RT: 7.94 min Scan# 530
Delta R.T. 0.02 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	24618		
164	65.9	46.8	86.8	
98	40.2	9.1	49.1	





#31

Naphthalene

Concen: 27.63 ng

RT: 8.07 min Scan# 541

Delta R.T. -0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

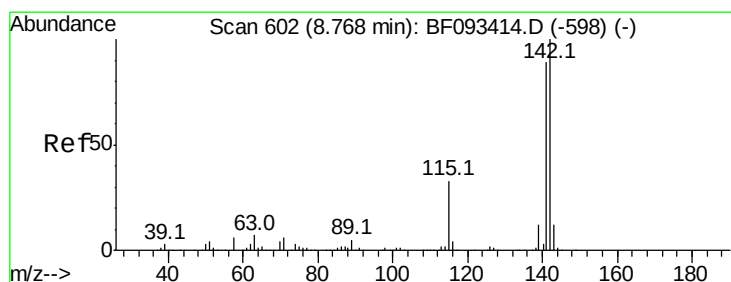
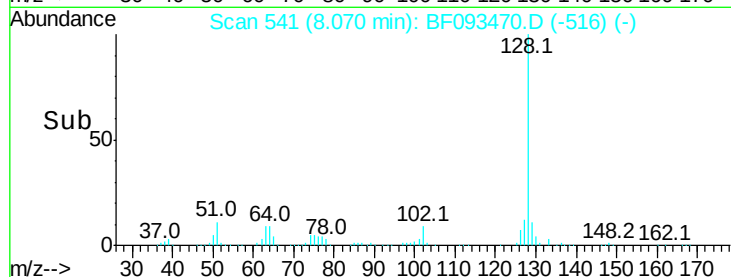
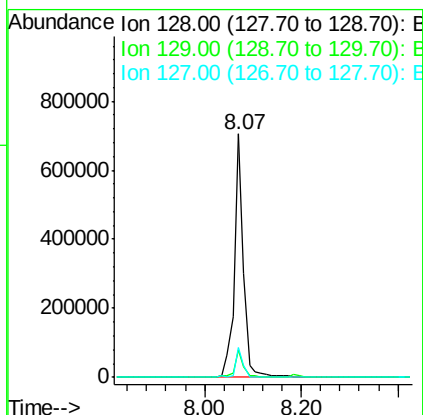
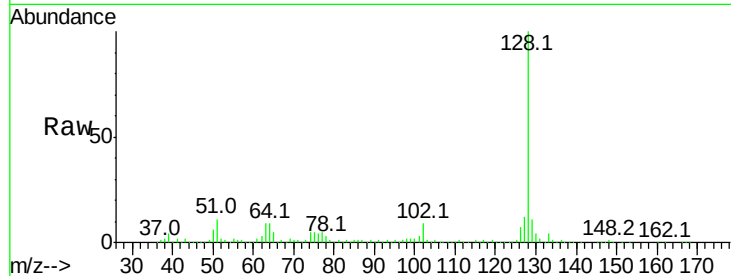
ClientSampleId :

E2-Z7-BASE

Tot Ion:	128	Resp:	930227
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.5	14.3
127	12.2	10.8	16.2

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#37

2-Methylnaphthalene

Concen: 16.67 ng

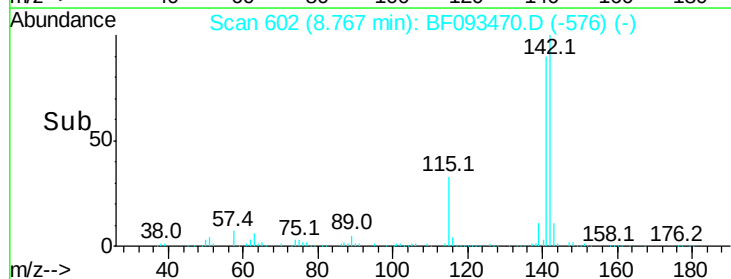
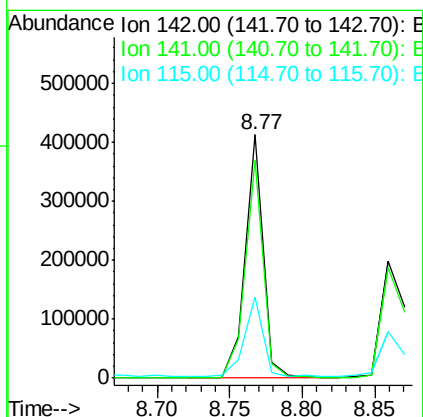
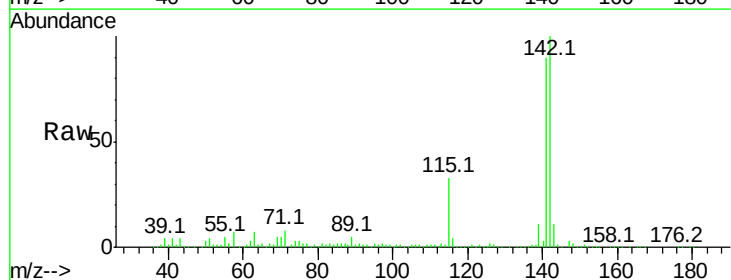
RT: 8.77 min Scan# 602

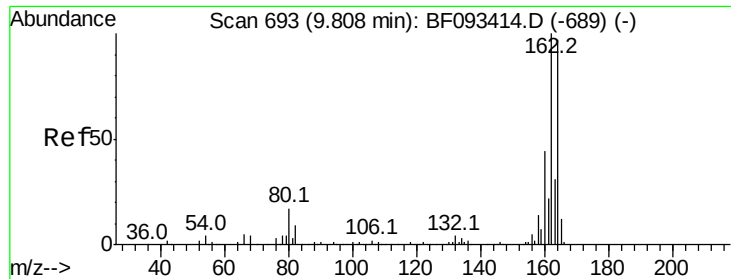
Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:	142	Resp:	356988
Ion Ratio	Lower	Upper	
142	100		
141	89.7	71.0	106.6
115	33.1	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

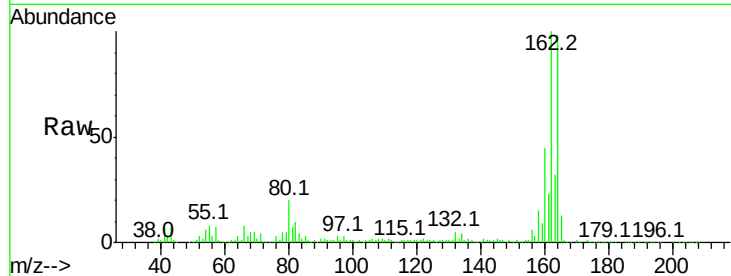
ClientSampleId :

E2-Z7-BASE

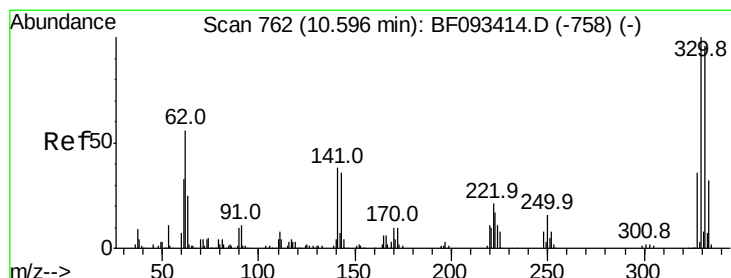
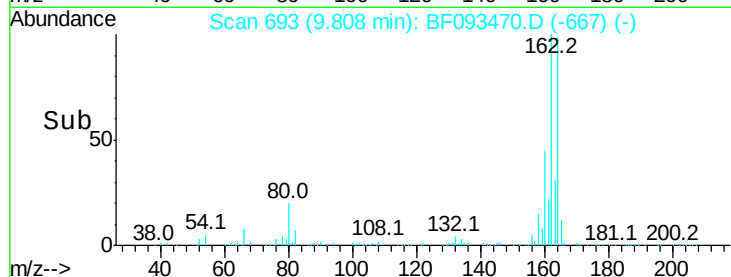
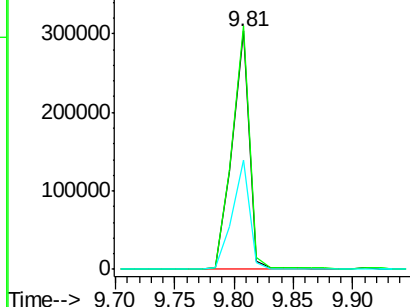
Tot Ion:	164	Resp:	303752
Ion Ratio	Lower	Upper	
164	100		
162	102.1	80.2	120.2
160	45.9	36.9	55.3

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 100.13 ng

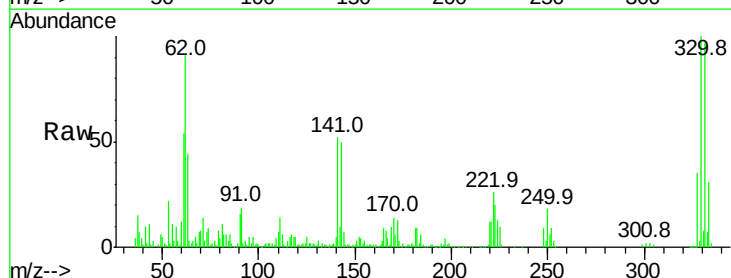
RT: 10.60 min Scan# 762

Delta R.T. -0.00 min

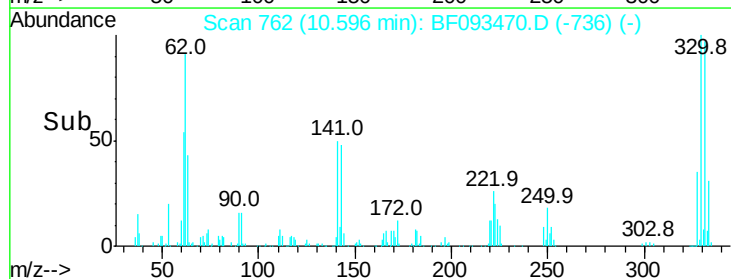
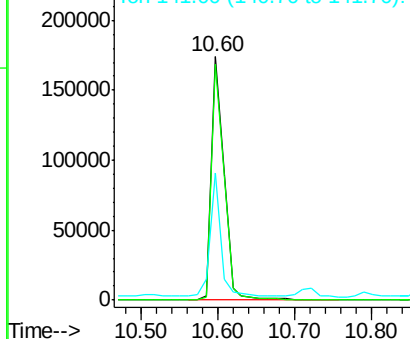
Lab File: BF093470.D

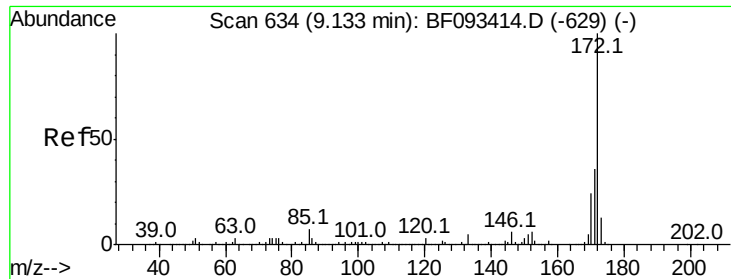
Acq: 9 Mar 2017 11:44

Tgt Ion:	330	Resp:	198159
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.4	116.2
141	41.3	34.1	51.1



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





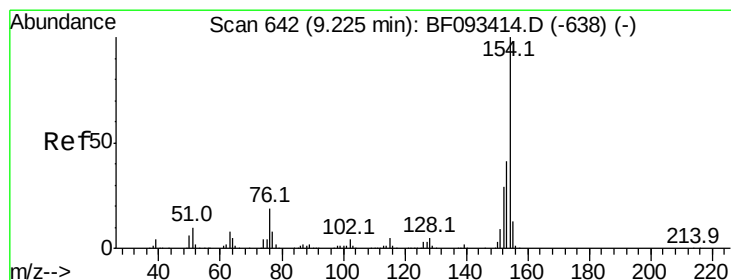
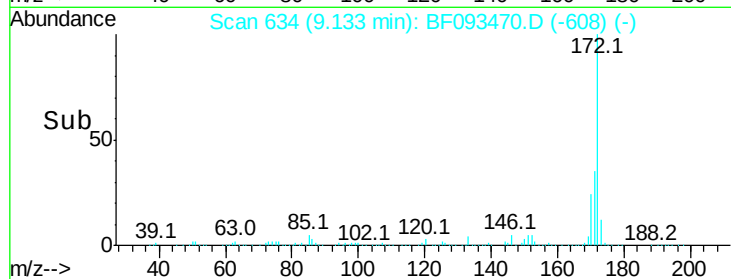
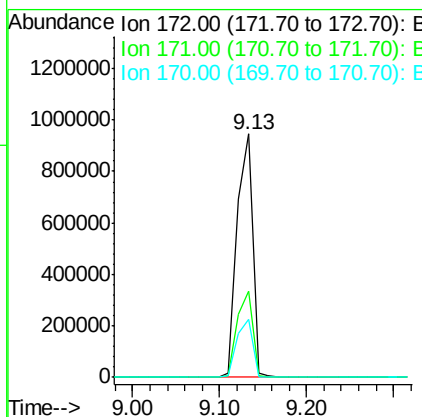
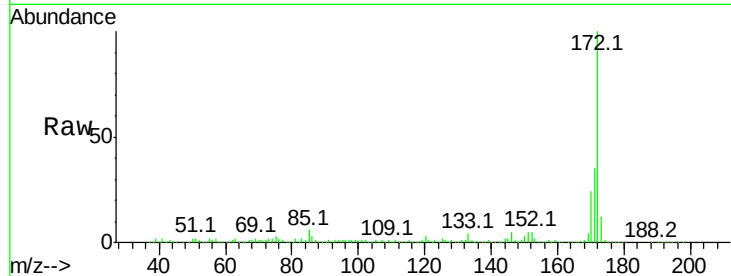
#44
2-Fluorobiphenyl
Concen: 71.05 ng
RT: 9.13 min Scan# 634
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.4	44.0
170	24.0	20.2	30.4

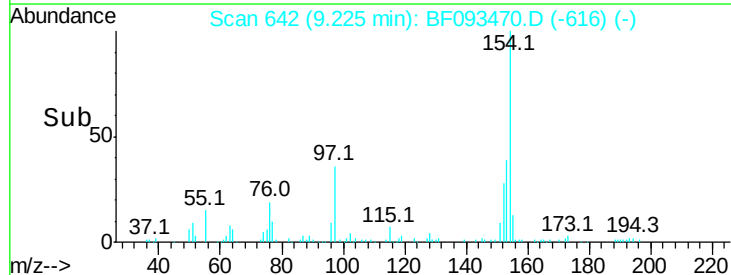
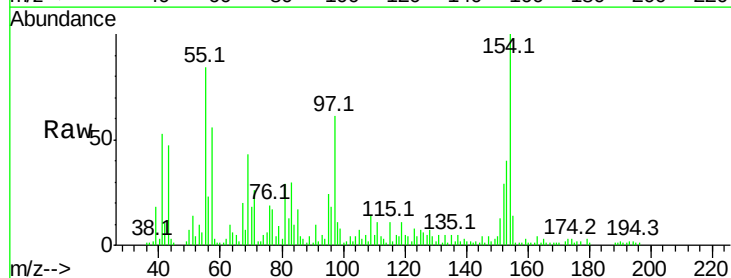
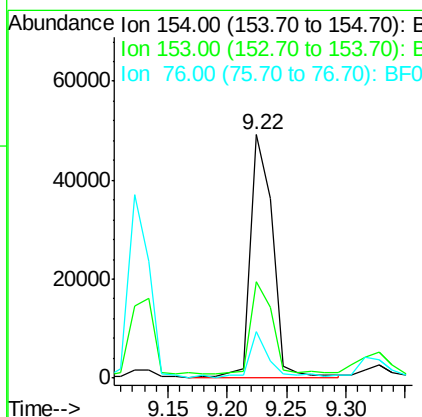
Manual Integrations
APPROVED

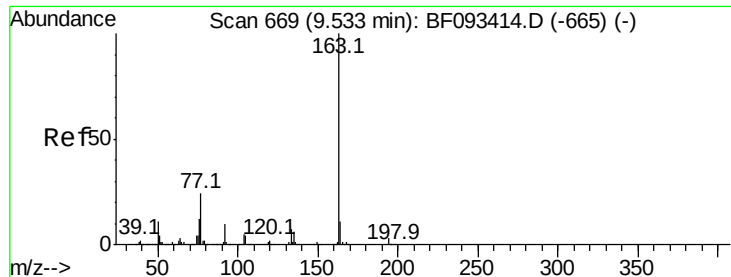
mohammad
3/10/2017 8:13:07 AM



#45
1,1'-Biphenyl
Concen: 2.94 ng
RT: 9.22 min Scan# 642
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.9	60.9
76	19.2	0.0	30.5





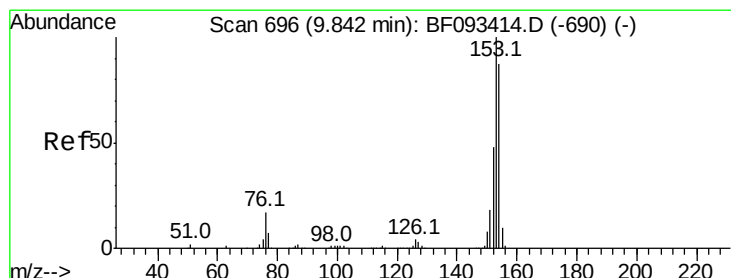
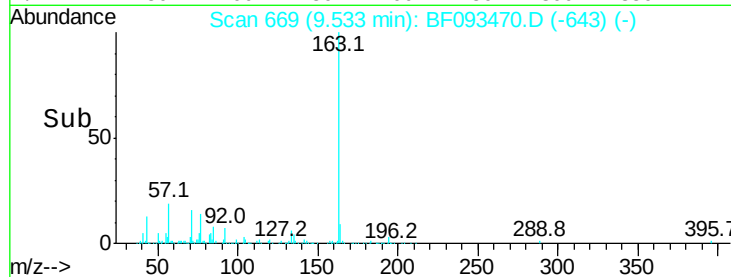
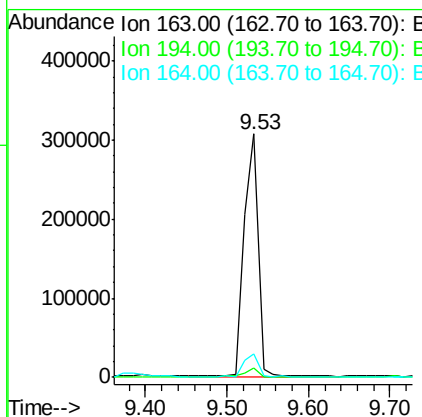
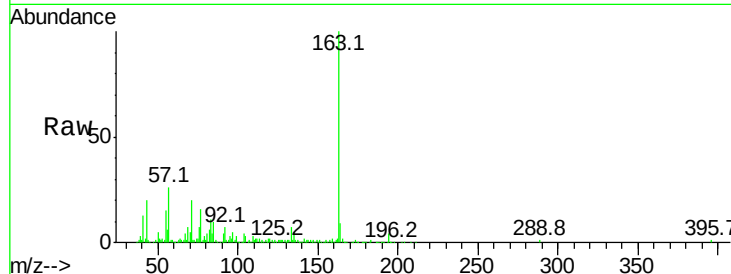
#49
Dimethylphthalate
Concen: 18.22 ng
RT: 9.53 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	3.0	4.4	
164	9.5	8.0	12.0	

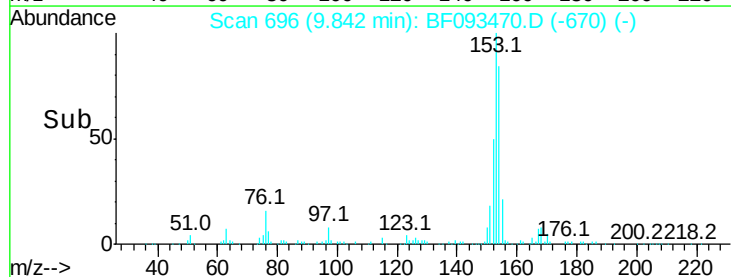
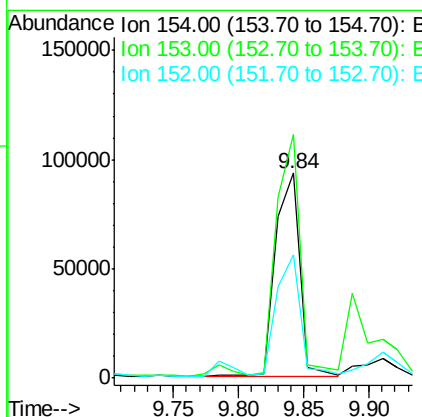
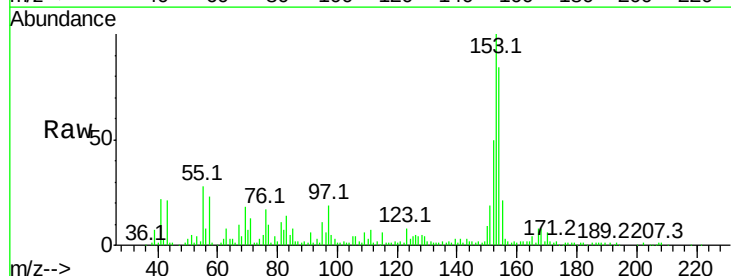
Manual Integrations
APPROVED

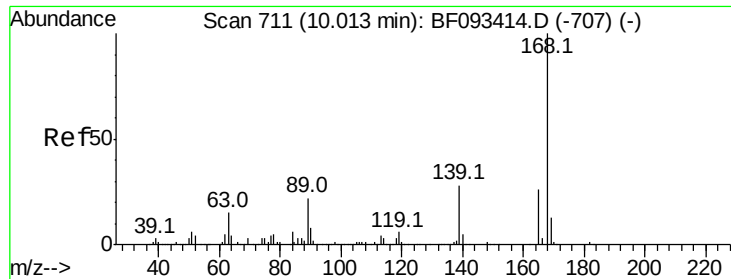
mohammad
3/10/2017 8:13:07 AM



#51
Acenaphthene
Concen: 7.41 ng
RT: 9.84 min Scan# 696
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	118.9	88.6	133.0	
152	59.9	41.6	62.4	





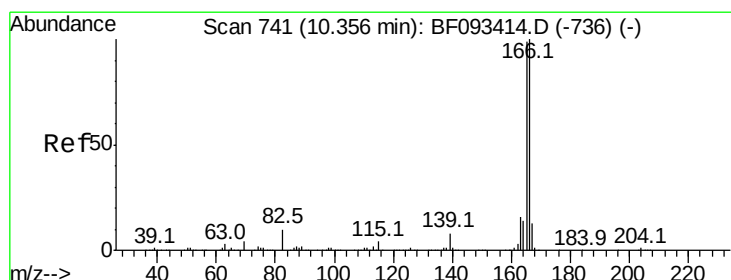
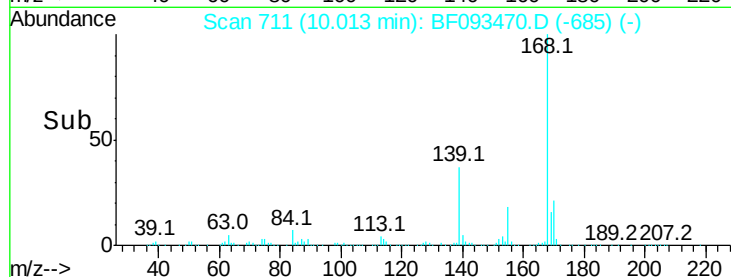
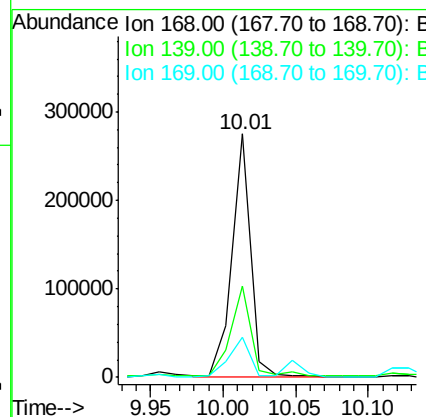
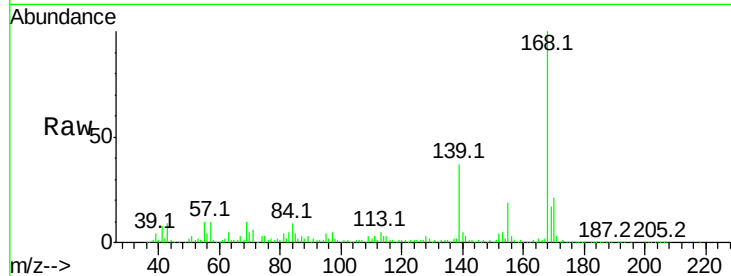
#54
Dibenzofuran
Concen: 11.74 ng
RT: 10.01 min Scan# 711
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.4	32.6	49.0
169	16.5	11.3	16.9

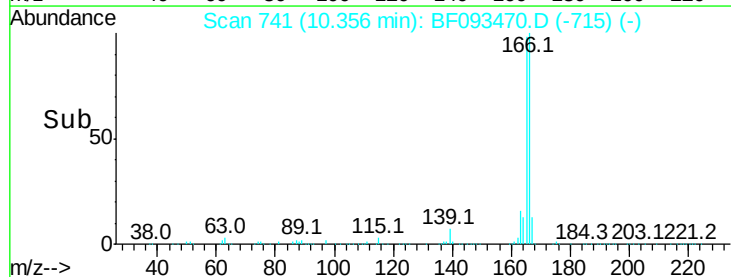
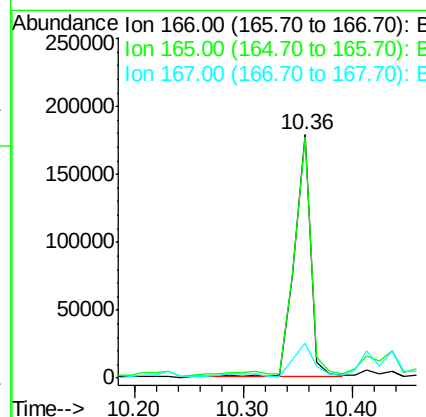
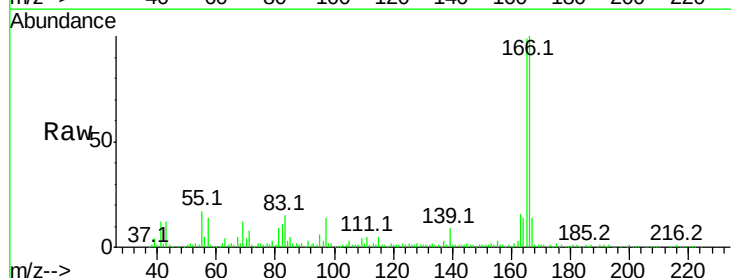
Manual Integrations
APPROVED

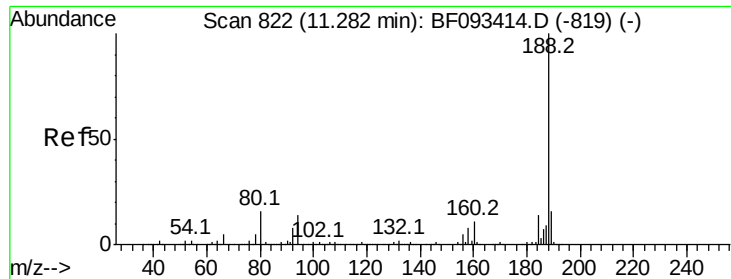
mohammad
3/10/2017 8:13:07 AM



#57
Fluorene
Concen: 10.61 ng
RT: 10.36 min Scan# 741
Delta R.T. -0.00 min
Lab File: BF093470.D
Acq: 9 Mar 2017 11:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	77.8	116.8
167	14.2	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 823

Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

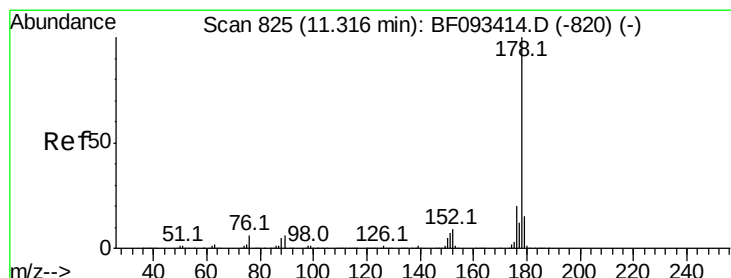
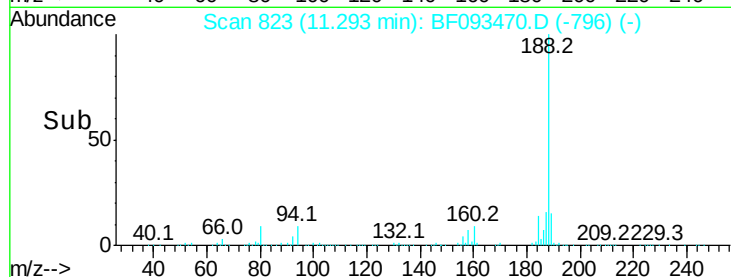
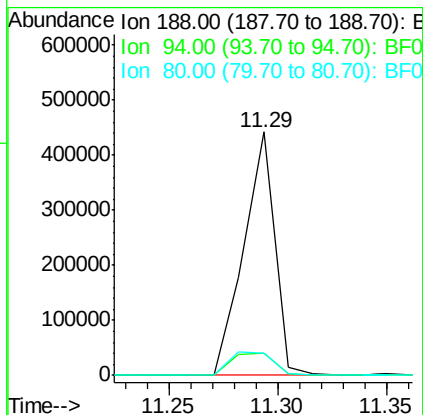
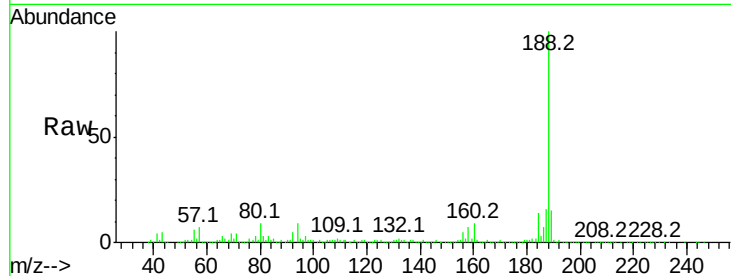
ClientSampleId :

E2-Z7-BASE

Tot Ion:188	Resp: 438892
Ion Ratio	Lower Upper
188 100	
94 9.2	10.0 15.0#
80 9.1	11.2 16.8#

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#70

Phenanthrene

Concen: 11.58 ng

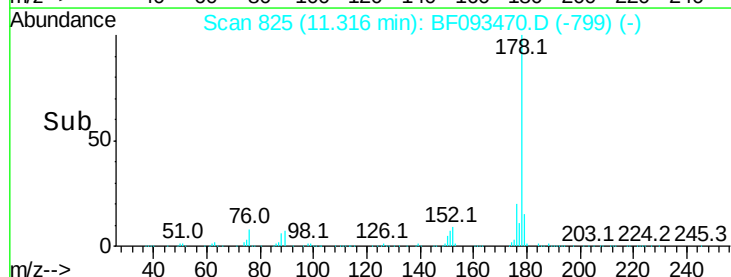
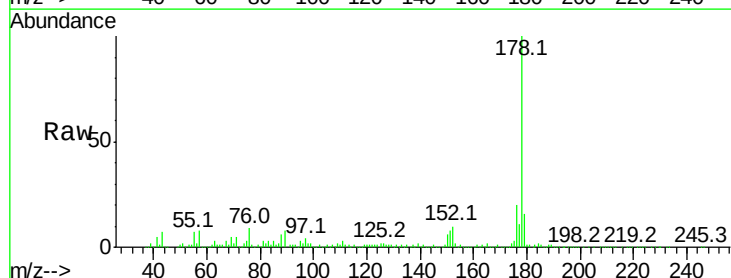
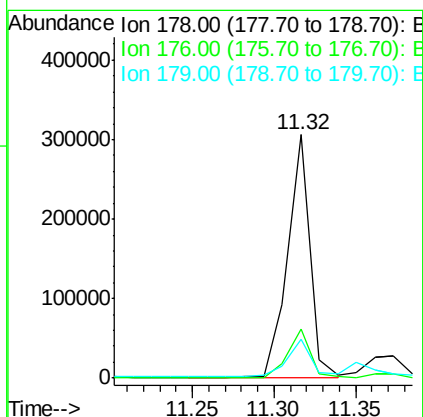
RT: 11.32 min Scan# 825

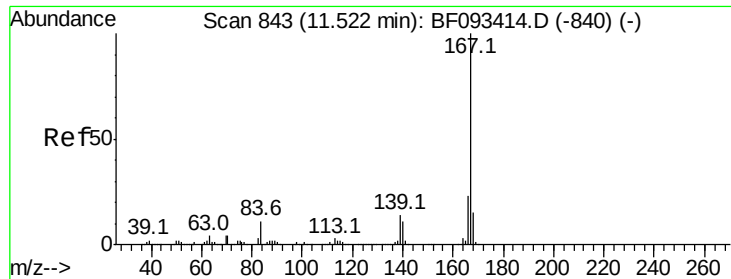
Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:178	Resp: 290189
Ion Ratio	Lower Upper
178 100	
176 20.1	16.6 25.0
179 16.0	12.8 19.2





#72

Carbazole

Concen: 6.94 ng

RT: 11.53 min Scan# 844

Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

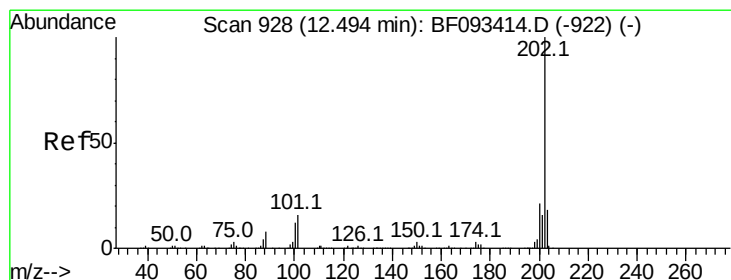
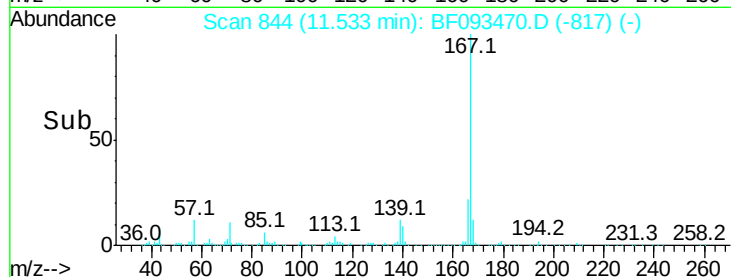
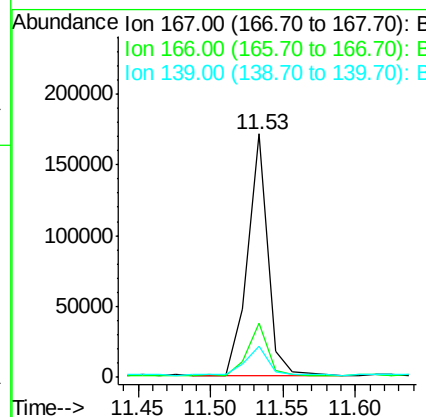
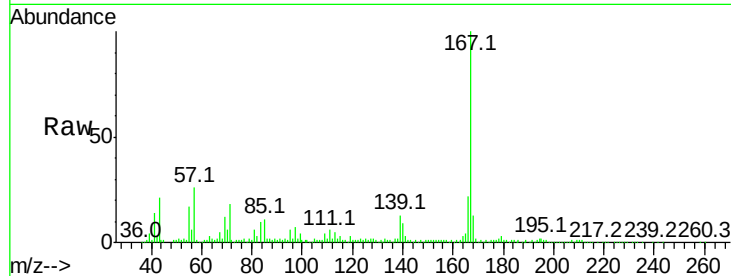
ClientSampleId :

E2-Z7-BASE

Tot Ion:	167	Resp:	165283
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.2	27.2
139	12.7	11.4	17.2

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#74

Fluoranthene

Concen: 6.25 ng

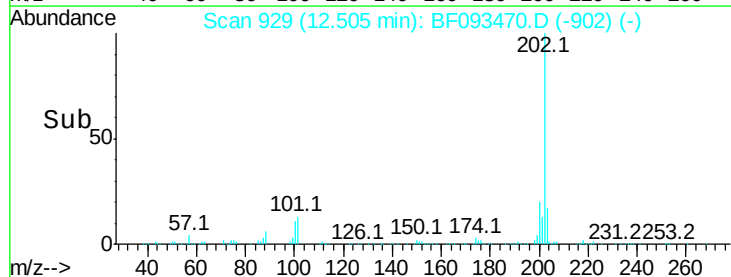
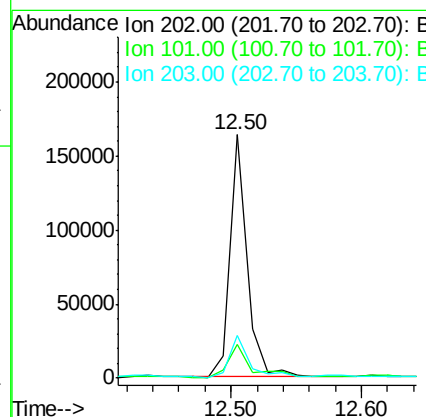
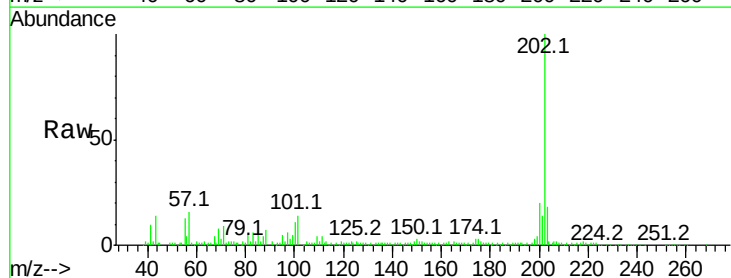
RT: 12.50 min Scan# 929

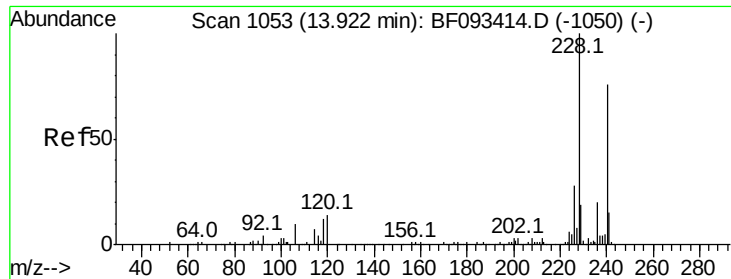
Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:	202	Resp:	151176
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	34.6
203	17.6	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1054

Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

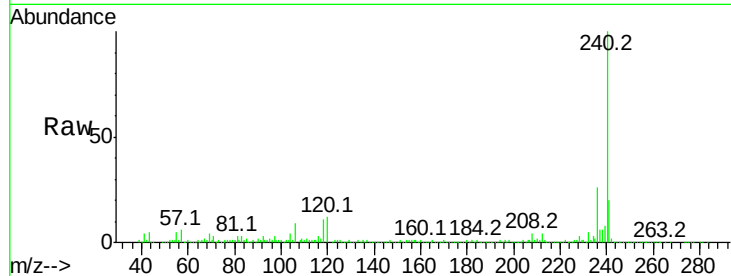
ClientSampled :

E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.0	12.9	19.3#
236	26.4	20.9	31.3

Manual Integrations
APPROVED

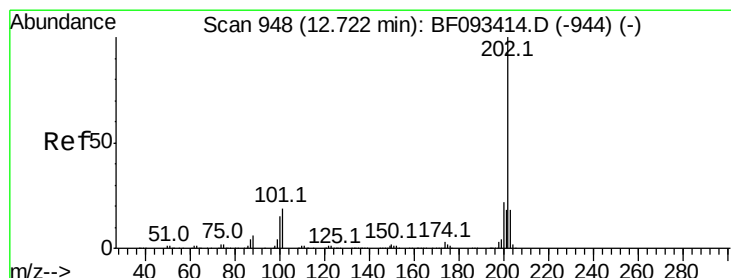
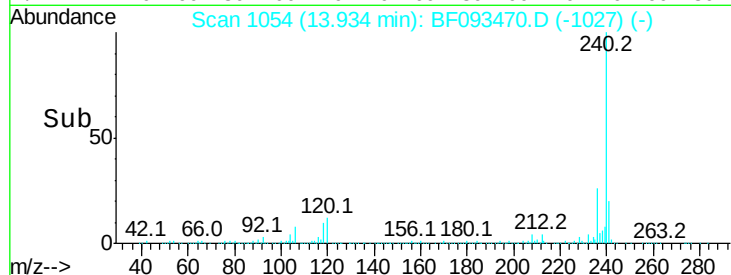
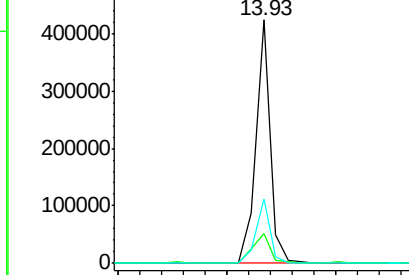
mohammad
3/10/2017 8:13:07 AM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.54 ng

RT: 12.73 min Scan# 949

Delta R.T. 0.01 min

Lab File: BF093470.D

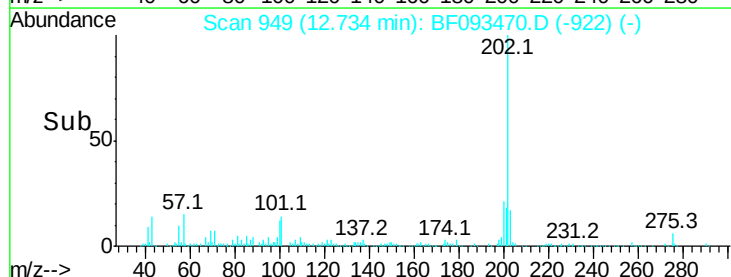
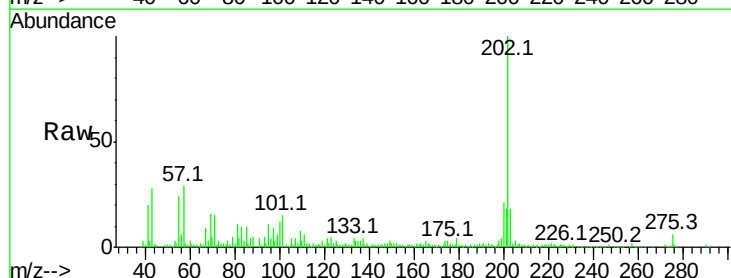
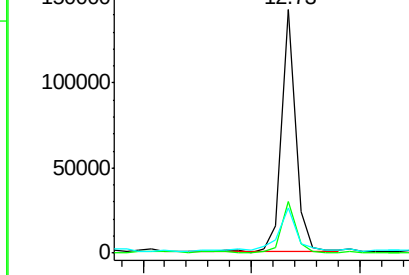
Acq: 9 Mar 2017 11:44

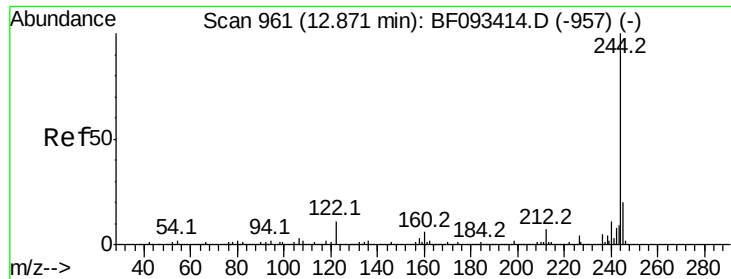
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.7	26.5
203	18.5	14.7	22.1

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 42.30 ng

RT: 12.87 min Scan# 961

Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

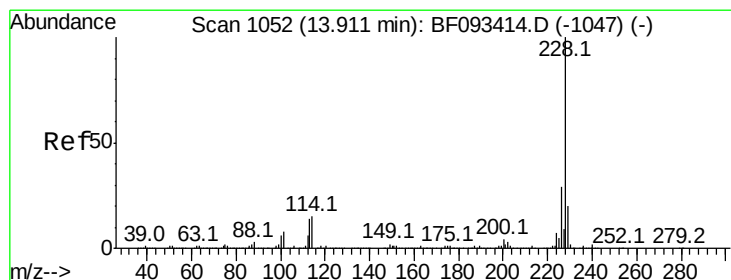
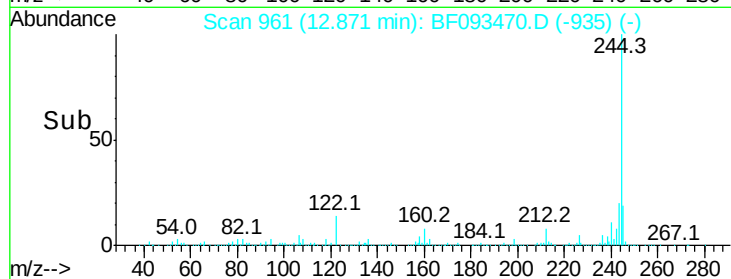
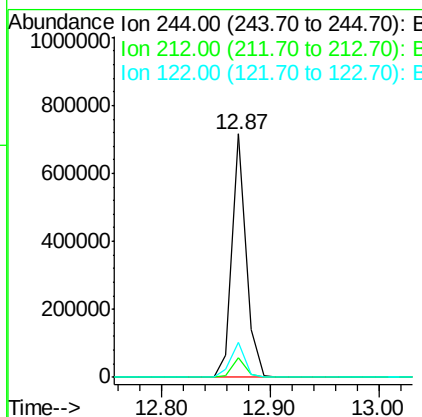
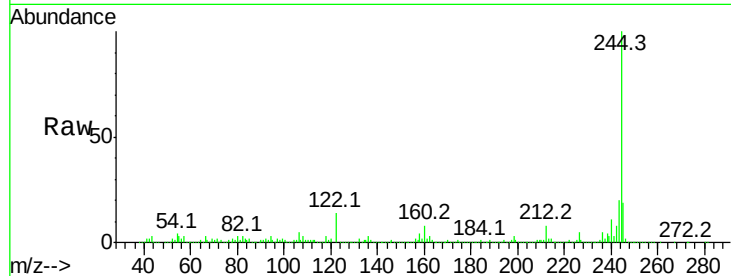
ClientSampleId :

E2-Z7-BASE

Tot Ion:	244	Resp:	637832
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.2	9.2
122	14.5	11.4	17.2

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#80

Benzo(a)anthracene

Concen: 2.65 ng m

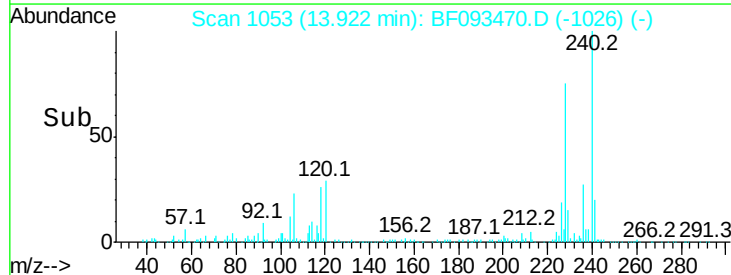
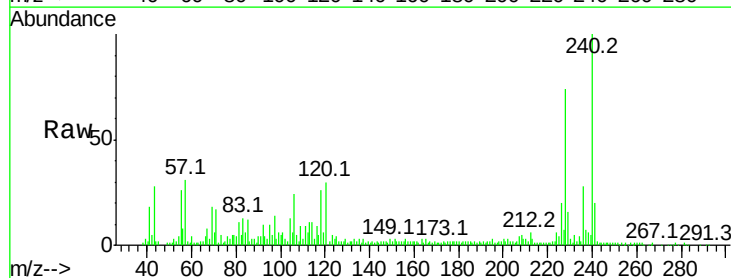
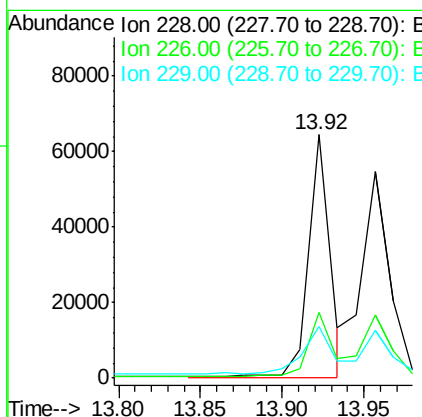
RT: 13.92 min Scan# 1053

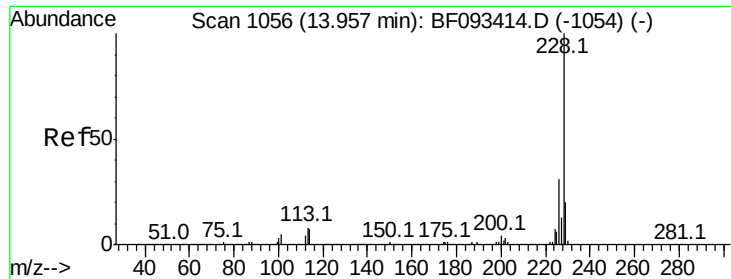
Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:	228	Resp:	61247
Ion Ratio	Lower	Upper	
228	100		
226	26.9	22.4	33.6
229	21.4	16.2	24.4





#82

Chrysene

Concen: 3.13 ng/mL

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

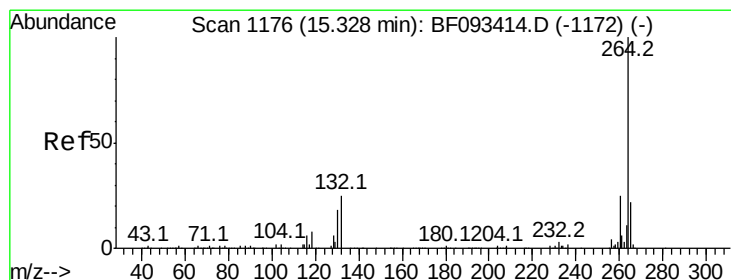
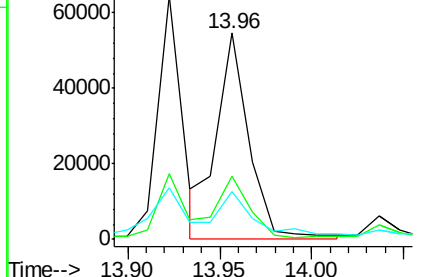
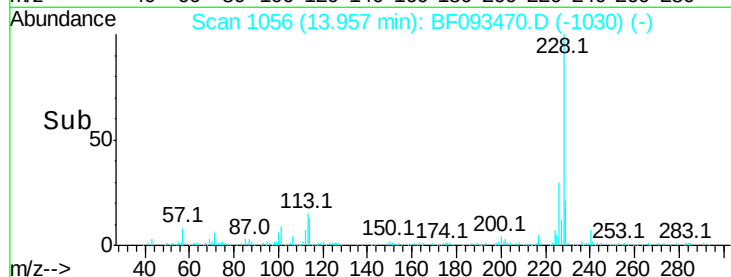
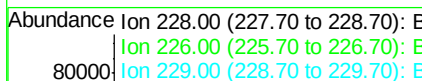
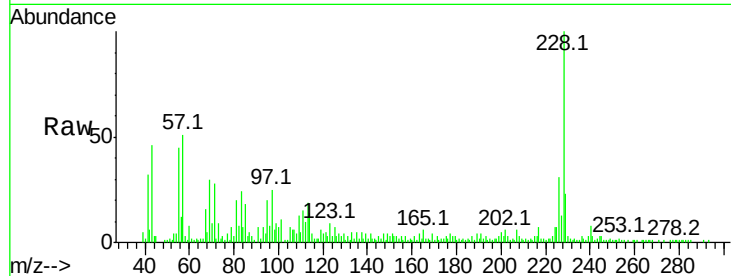
ClientSampleId :

E2-Z7-BASE

Tot Ion:	228	Resp:	67036
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.4	38.0
229	23.0	16.2	24.2

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#86

Perylene-d12

Concen: 20.00 ng

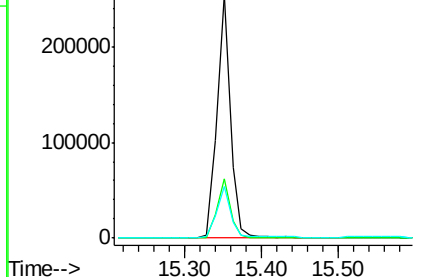
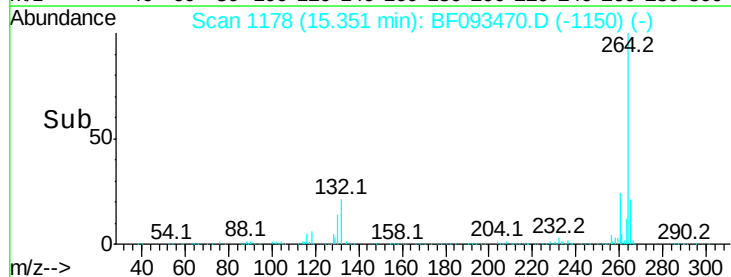
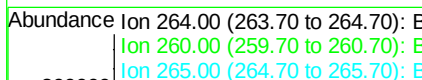
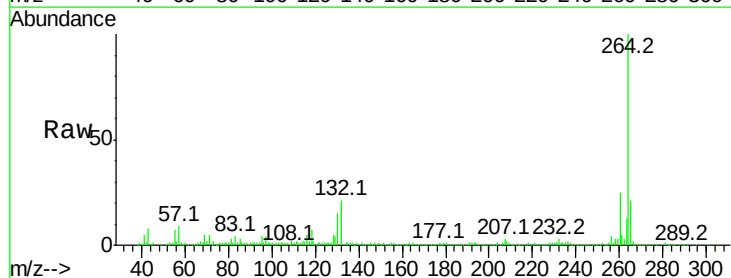
RT: 15.35 min Scan# 1178

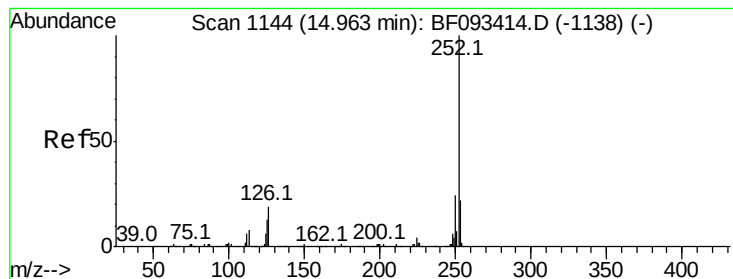
Delta R.T. 0.02 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:	264	Resp:	307446
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.2	28.8
265	21.4	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 3.99 ng

RT: 14.95 min Scan# 1143

Delta R.T. 0.01 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Instrument :

BNA_F

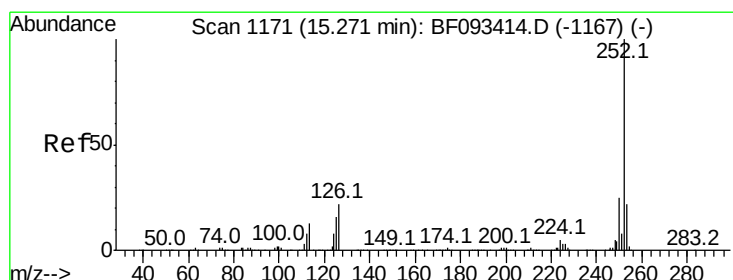
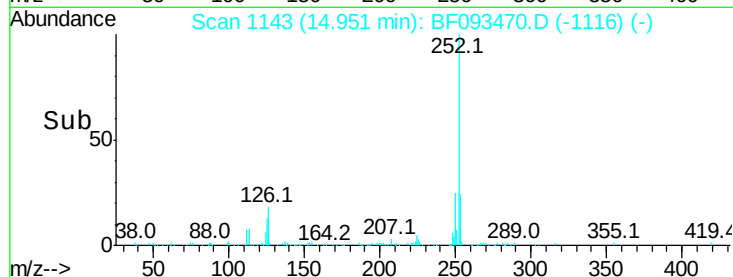
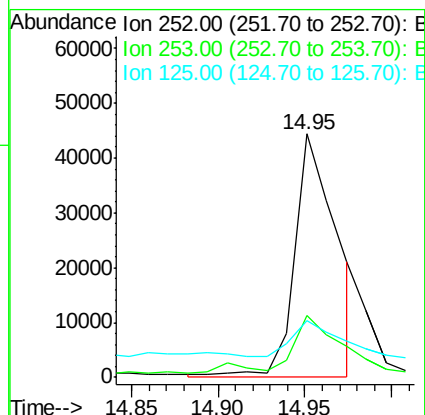
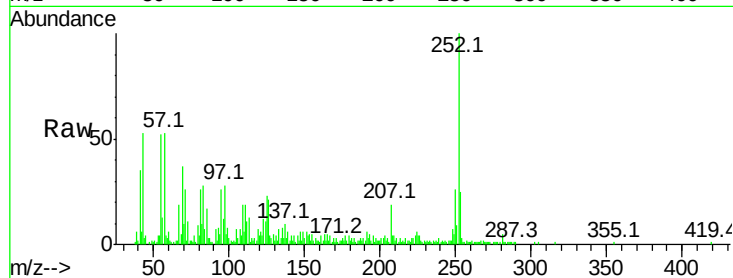
ClientSampleId :

E2-Z7-BASE

Tot Ion:	252	Resp:	74698
Ion Ratio	Lower	Upper	
252	100		
253	25.4	18.2	27.4
125	23.3	9.8	14.6#

Manual Integrations
APPROVED

mohammad
3/10/2017 8:13:07 AM



#89

Benzo(a)pyrene

Concen: 2.44 ng

RT: 15.29 min Scan# 1173

Delta R.T. 0.02 min

Lab File: BF093470.D

Acq: 9 Mar 2017 11:44

Tgt Ion:	252	Resp:	41742
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.2
125	21.5	10.0	15.0#

