

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089821.D
 Acq On : 24 Mar 2015 19:32
 Operator : TP/JJ
 Sample : PB82216BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Manual Integrations
 APPROVED

mohammad
 3/25/2015 5:43:16 PM

Quant Time: Mar 25 03:36:06 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	173302	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	720331	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	318580	5.00	ng	0.00
13) Phenanthrene-d10	17.92	188	527260	5.00	ng	0.00
19) Chrysene-d12	24.26	240	493412	5.00	ng	0.00
25) Perylene-d12	27.41	264	412392	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	482376	9.16	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	709211	9.51	ng	0.00
21) Terphenyl-d14	21.86	244	658844	9.05	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.55	88	180716	8.12	ng	91
3) n-Nitrosodimethylamine	2.95	42	263764	8.00	ng	# 77
6) Naphthalene	10.31	128	1055583	7.41	ng	96
7) 2-Methylnaphthalene	11.93	142	637842	8.06	ng	99
10) Acenaphthylene	14.04	152	3708577	8.14	ng	99
11) Acenaphthene	14.47	154	534586	7.66	ng	84
12) Fluorene	15.71	166	674606	7.97	ng	93
14) Hexachlorobenzene	16.99	284	139525	7.96	ng	94
15) Pentachlorophenol	17.50	266	111648	13.37	ng	99
16) Phenanthrene	17.97	178	906212	7.82	ng	100
17) Anthracene	18.10	178	920750	8.89	ng	99
18) Fluoranthene	20.82	202	937936	8.98	ng	99
20) Pyrene	21.34	202	987770	7.89	ng	97
22) Benzo(a)anthracene	24.25	228	819735	8.88	ng	97
23) Chrysene	24.32	228	870499	8.64	ng	99
24) Indeno(1,2,3-cd)pyrene	29.39	276	682647m	6.77	ng	
26) Benzo(b)fluoranthene	26.64	252	682785	7.69	ng	98
27) Benzo(k)fluoranthene	26.70	252	904856	10.71	ng	# 95
28) Benzo(a)pyrene	27.30	252	678575	8.14	ng	# 90
29) Dibenzo(a,h)anthracene	29.44	278	574908	7.33	ng	# 78
30) Benzo(g,h,i)perylene	29.83	276	694434	7.98	ng	# 89

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

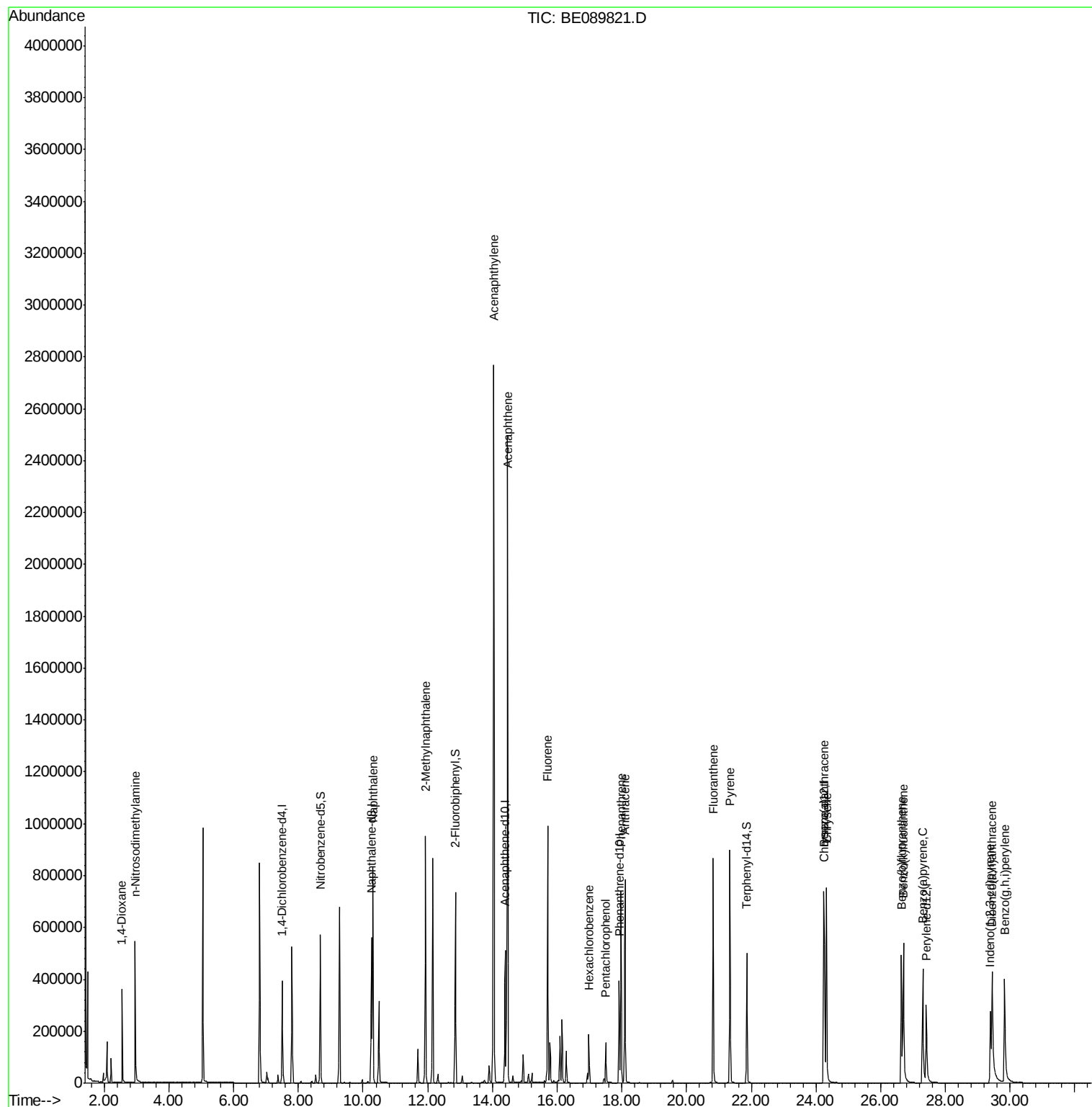
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
Data File : BE089821.D
Acq On : 24 Mar 2015 19:32
Operator : TP/JJ
Sample : PB82216BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

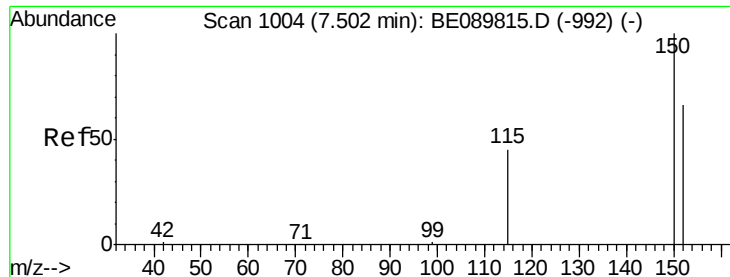
Instrument :
BNA_E
ClientSampled :
PB82216BSD

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM

Quant Time: Mar 25 03:36:06 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 24 18:03:12 2015
Response via : Initial Calibration





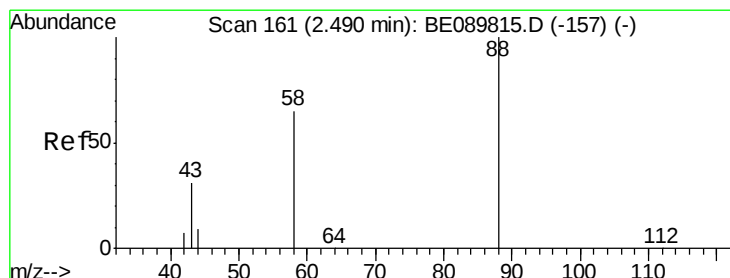
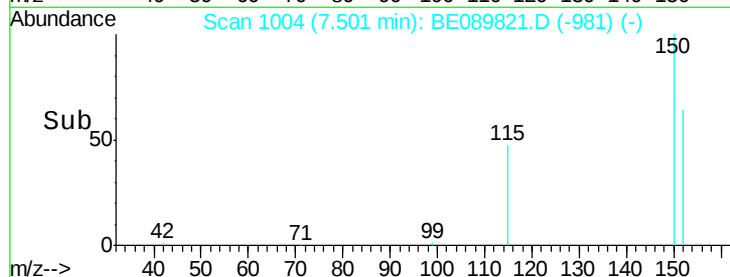
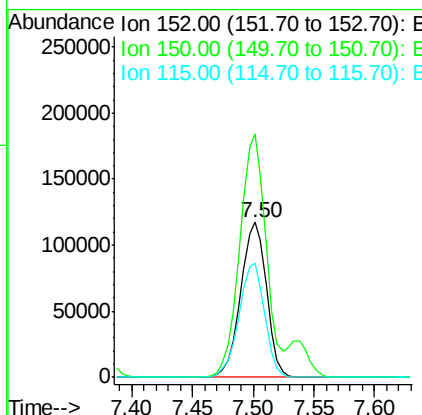
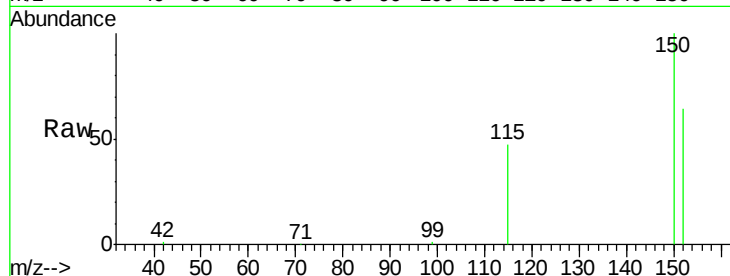
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.50 min Scan# 1004
 Delta R.T. 0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.0	125.5	188.3
115	73.5	58.0	87.0

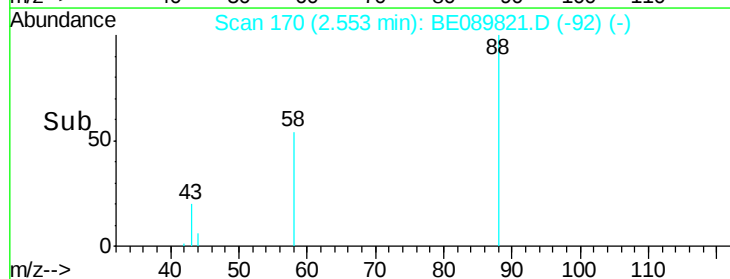
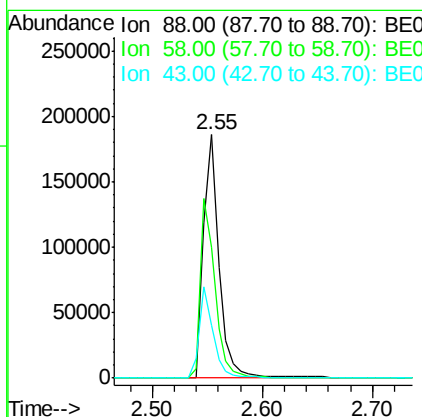
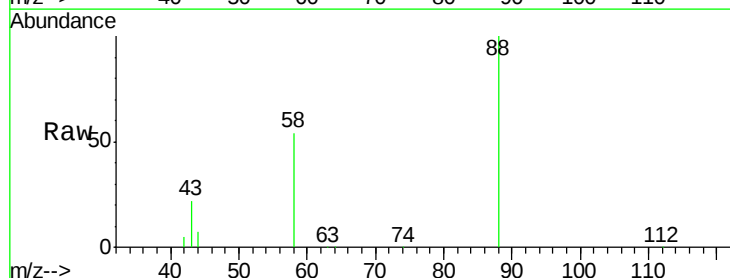
Manual Integrations
 APPROVED

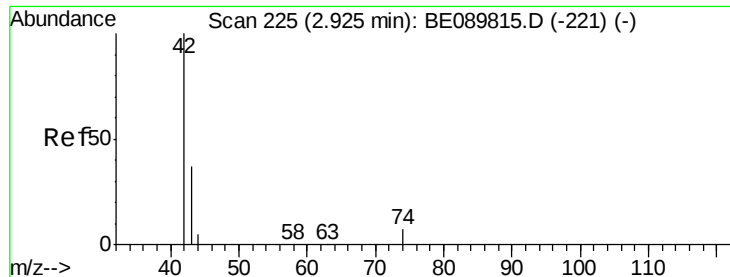
mohammad
 3/25/2015 5:43:16 PM



#2
 1,4-Dioxane
 Concen: 8.12 ng
 RT: 2.55 min Scan# 170
 Delta R.T. 0.03 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	69.9	48.6	72.8
43	33.4	28.6	43.0





#3

n-Nitrosodimethylamine

Concen: 8.00 ng

RT: 2.95 min Scan# 229

Delta R.T. -0.04 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

Tgt Ion: 42 Resp: 263764

Ion Ratio Lower Upper

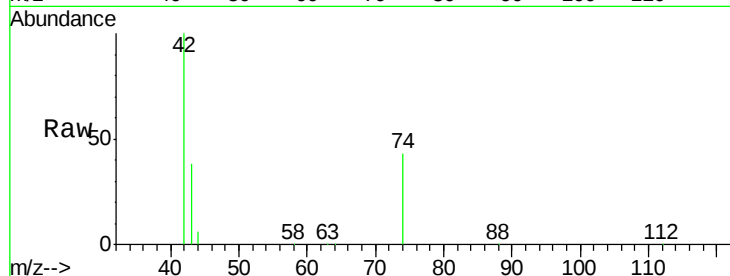
42 100

74 108.2 68.7 103.1#

44 5.5 6.2 9.4#

Manual Integrations
APPROVED

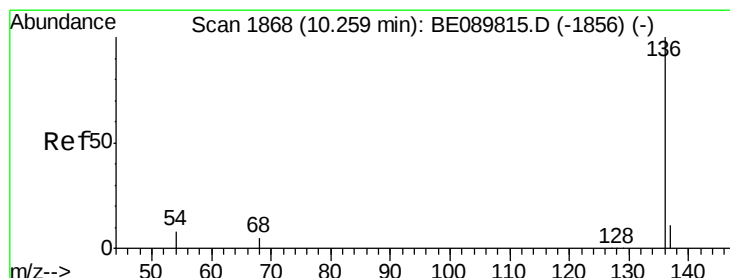
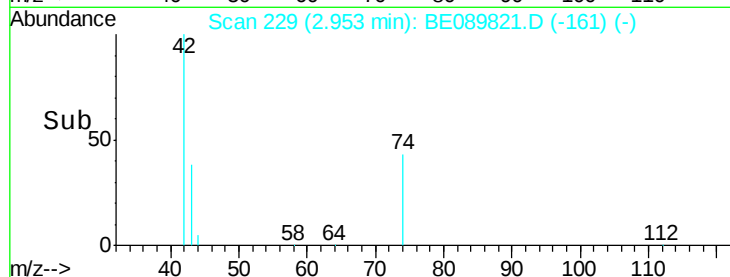
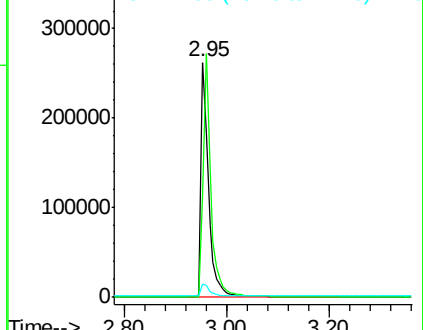
mohammad
3/25/2015 5:43:16 PM



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.26 min Scan# 1869

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

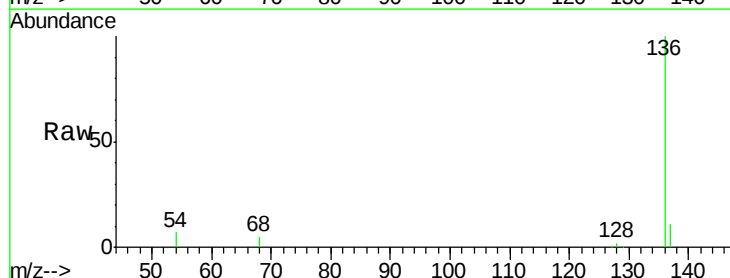
Tgt Ion: 136 Resp: 720331

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

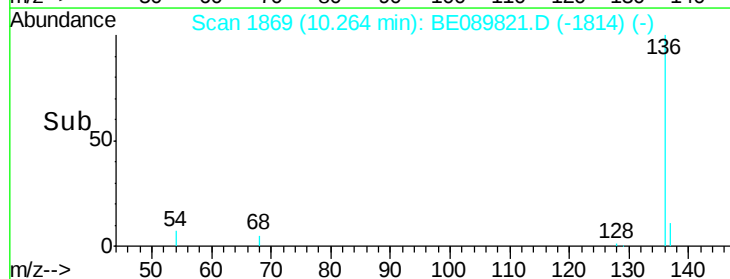
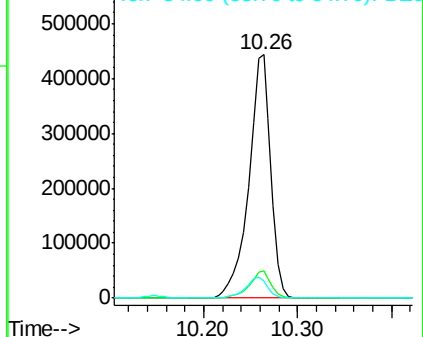
54 7.3 7.0 10.4

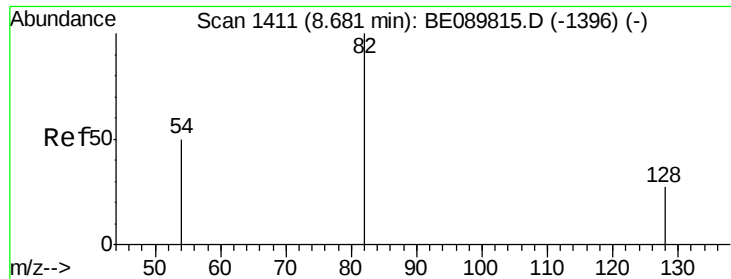


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.16 ng

RT: 8.68 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE089821.D

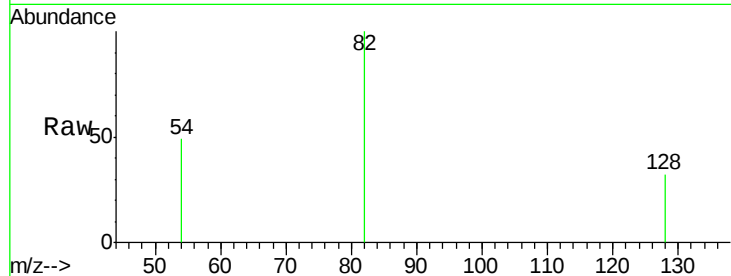
Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD



Tgt Ion: 82 Resp: 482376

Ion Ratio Lower Upper

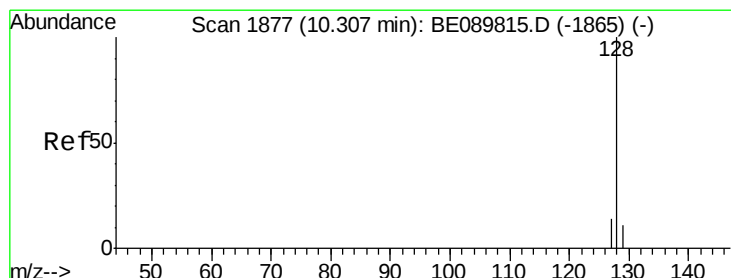
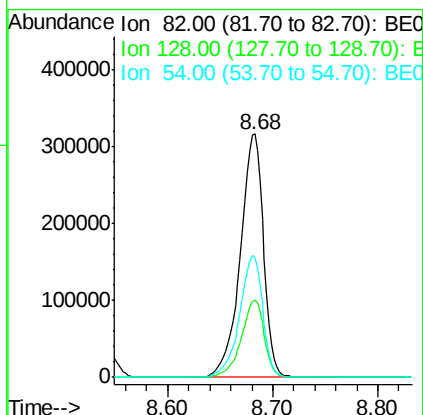
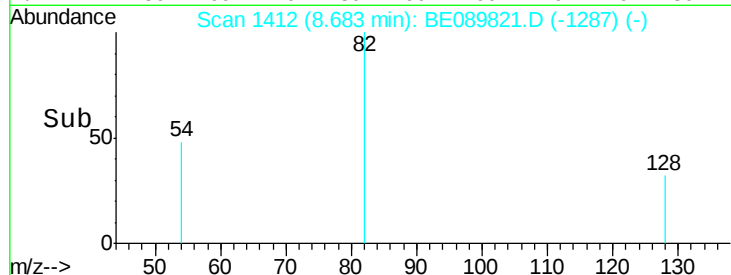
82 100

128 31.9 24.6 37.0

54 49.0 43.0 64.6

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#6

Naphthalene

Concen: 7.41 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

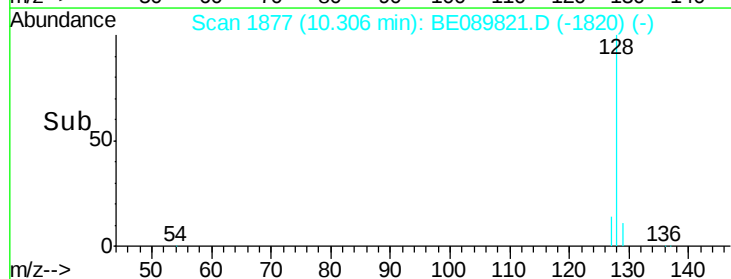
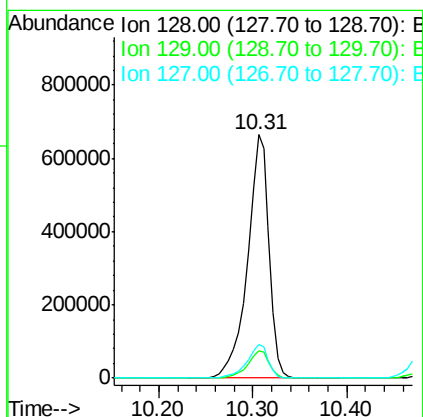
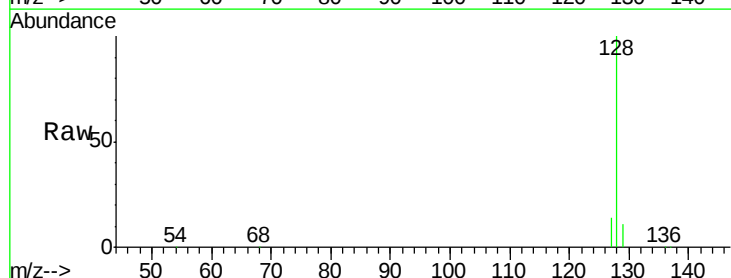
Tgt Ion: 128 Resp: 1055583

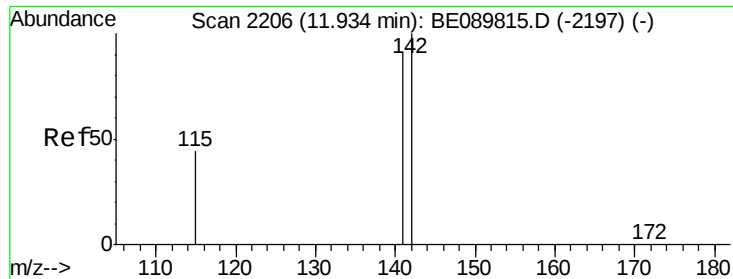
Ion Ratio Lower Upper

128 100

129 11.1 10.0 15.0

127 14.0 12.5 18.7





#7

2-Methylnaphthalene

Concen: 8.06 ng

RT: 11.93 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

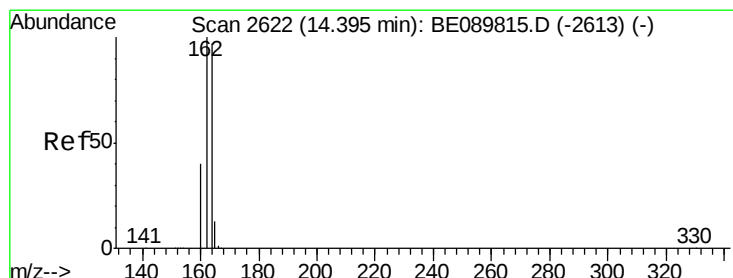
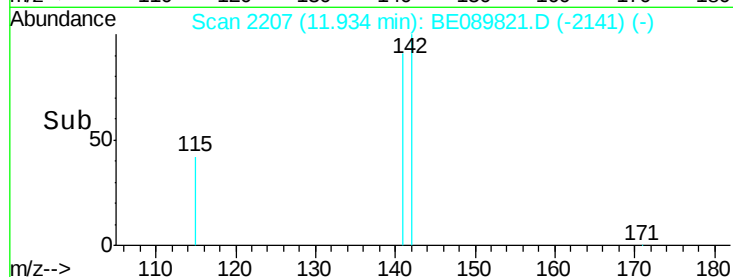
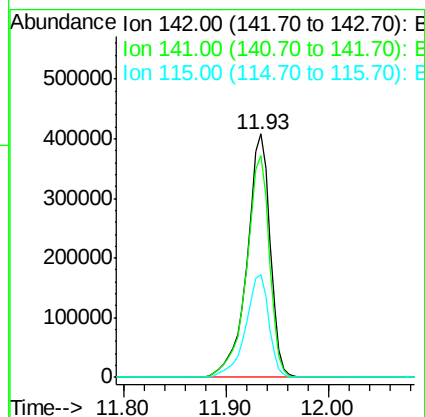
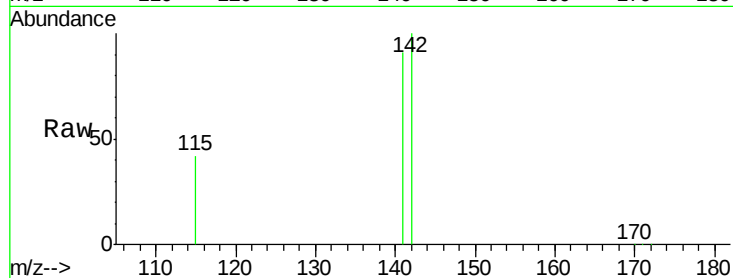
ClientSampled :

PB82216BSD

Tgt	Ion	142	Resp	637842
Ion	Ratio	Lower	Upper	
142	100			
141	91.2	72.8	109.2	
115	42.3	32.9	49.3	

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#8

Acenaphthene-d10

Concen: 5.00 ng

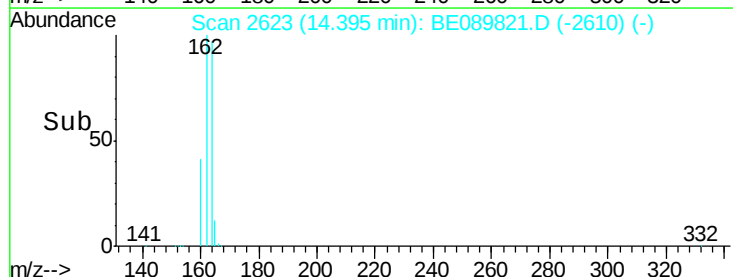
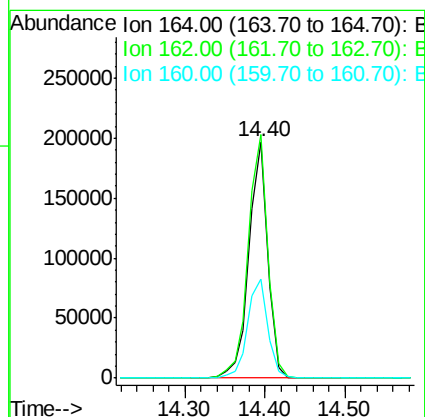
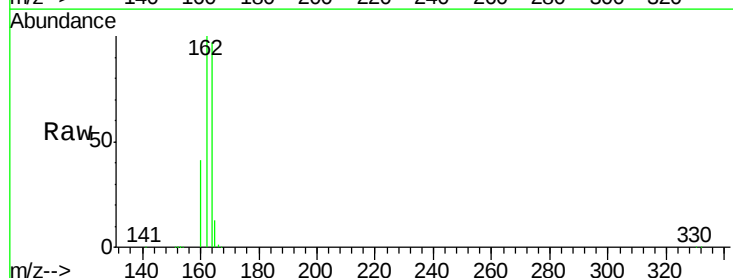
RT: 14.40 min Scan# 2623

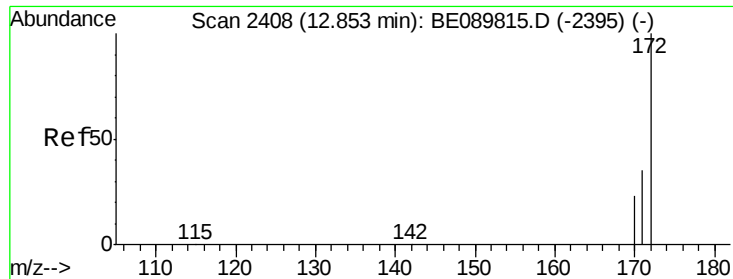
Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Tgt	Ion	164	Resp	318580
Ion	Ratio	Lower	Upper	
164	100			
162	103.2	87.6	131.4	
160	41.8	36.7	55.1	





#9

2-Fluorobiphenyl

Concen: 9.51 ng

RT: 12.85 min Scan# 2409

Delta R.T. 0.00 min

Lab File: BE089821.D

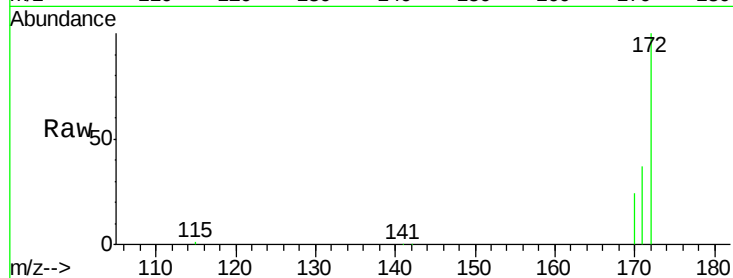
Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

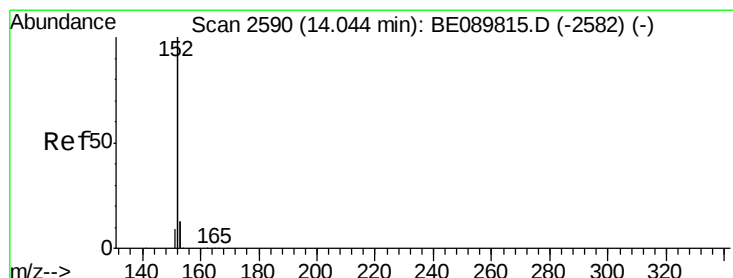
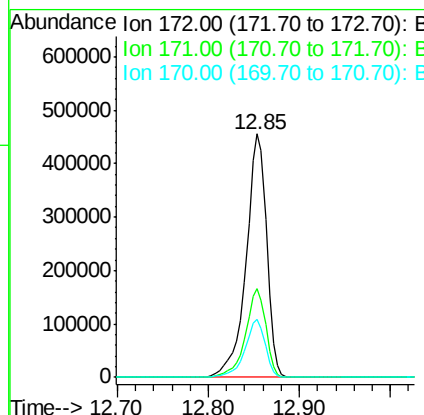
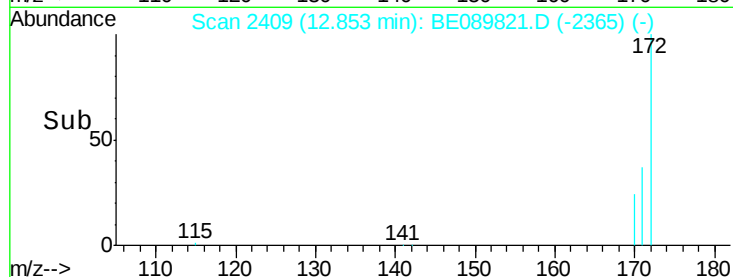
PB82216BSD



Tgt Ion:	172	Resp:	709211
Ion Ratio	Lower	Upper	
172	100		
171	36.6	30.8	46.2
170	23.9	21.0	31.4

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#10

Acenaphthylene

Concen: 8.14 ng

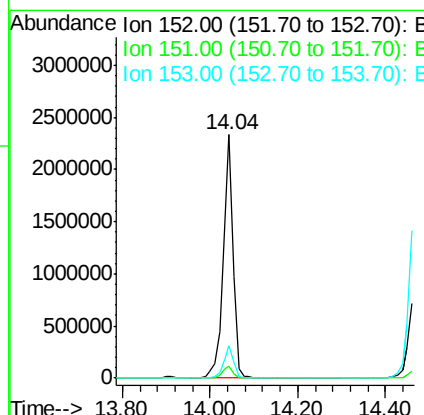
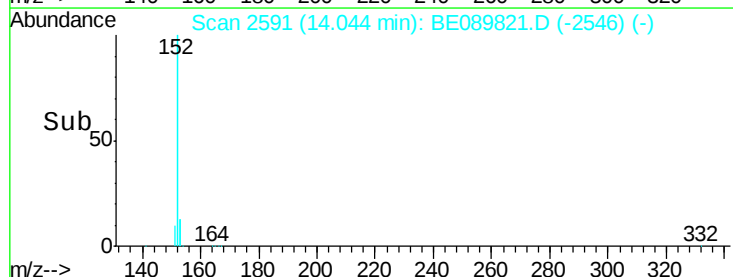
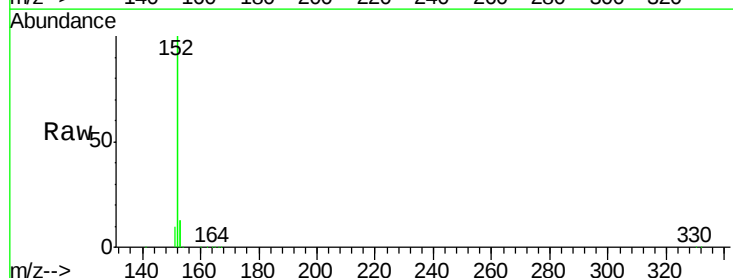
RT: 14.04 min Scan# 2591

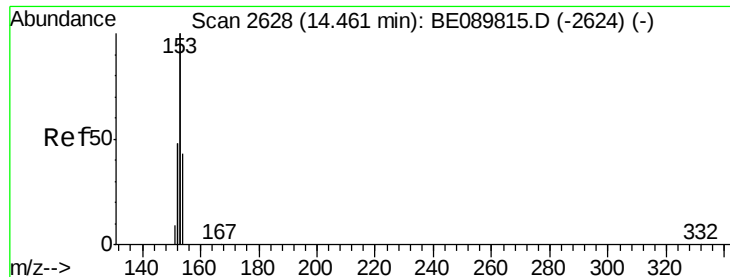
Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Tgt Ion:	152	Resp:	3708577
Ion Ratio	Lower	Upper	
152	100		
151	5.1	3.9	5.9
153	13.1	11.0	16.4





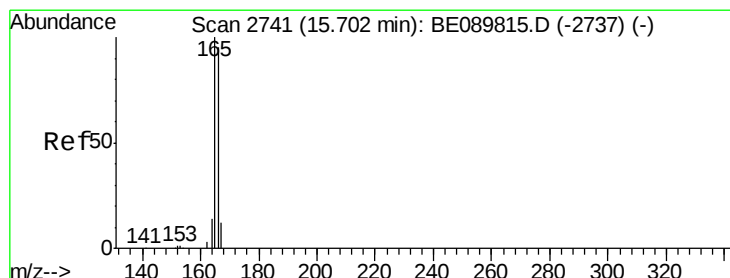
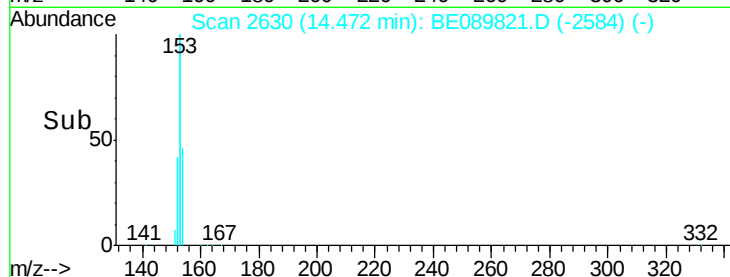
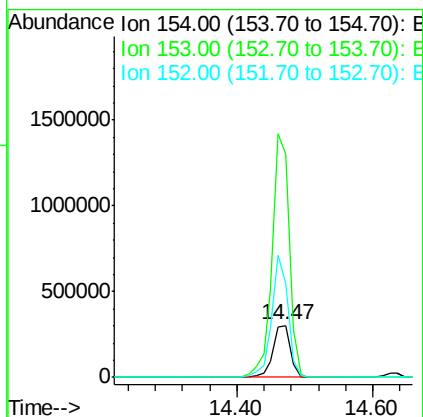
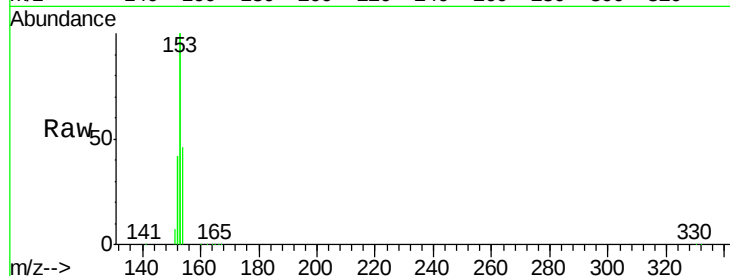
#11
Acenaphthene
Concen: 7.66 ng
RT: 14.47 min Scan# 2630
Delta R.T. 0.01 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB82216BSD

Tgt Ion	Ratio	Lower	Upper
154	100		
153	461.1	401.5	602.3
152	218.4	198.6	298.0

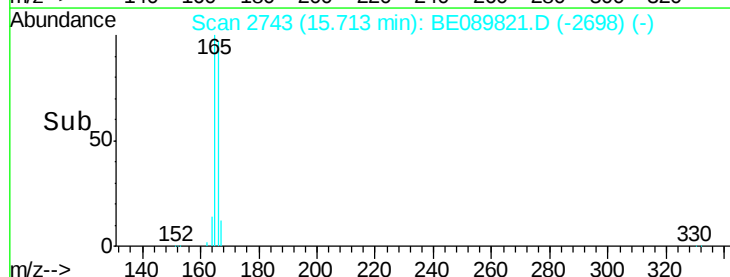
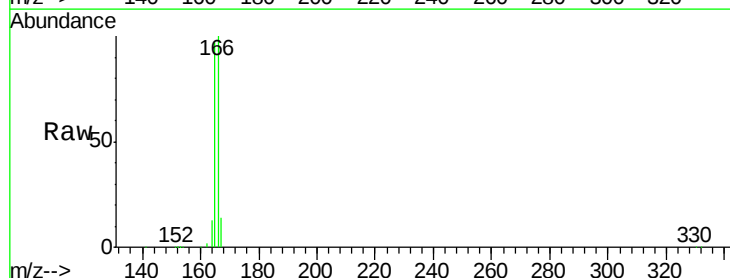
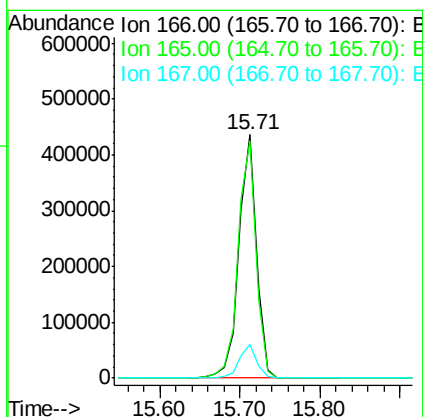
Manual Integrations
APPROVED

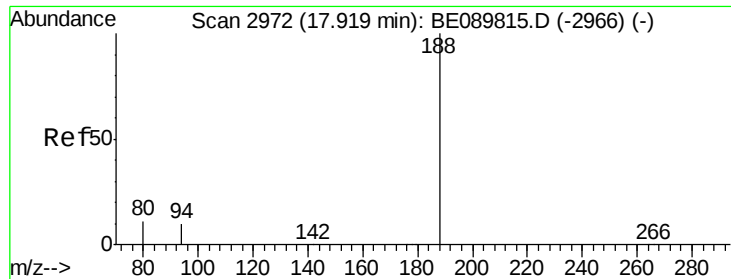
mohammad
3/25/2015 5:43:16 PM



#12
Fluorene
Concen: 7.97 ng
RT: 15.71 min Scan# 2743
Delta R.T. -0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	85.1	127.7
167	13.4	12.2	18.4





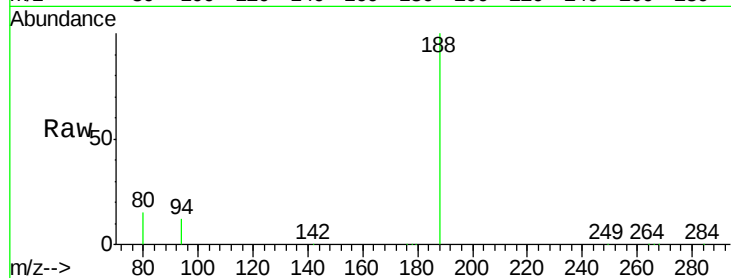
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2973
Delta R.T. -0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB82216BSD

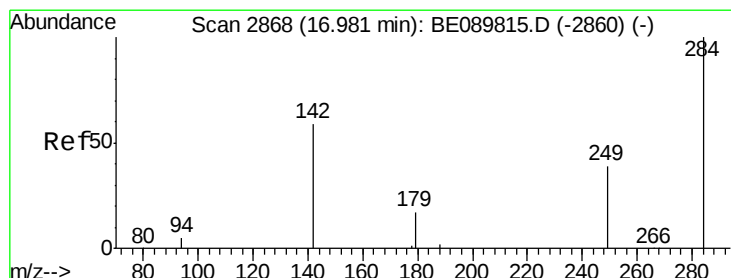
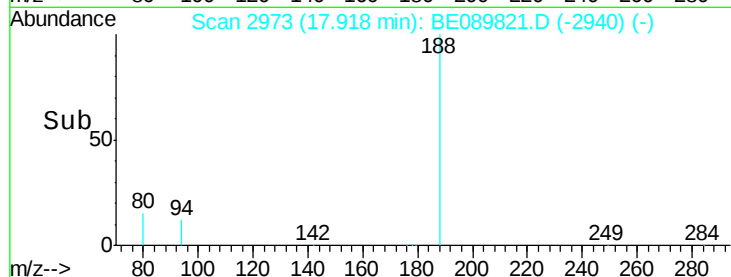
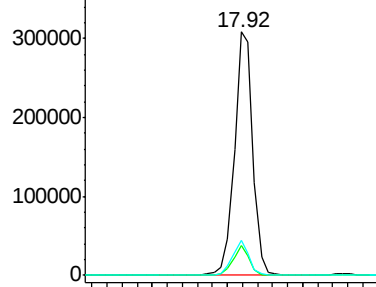
Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	12.0	8.5	12.7
80	14.6	10.0	15.0

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM

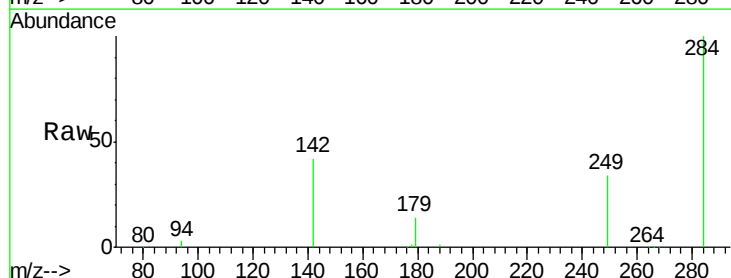


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

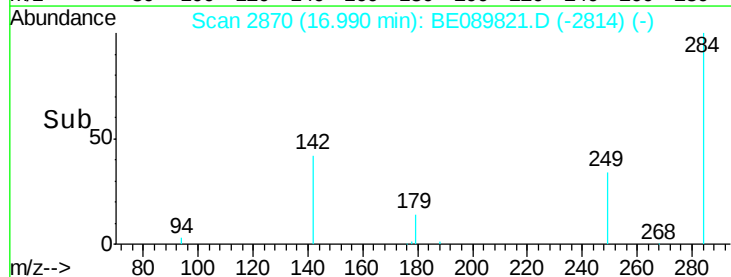
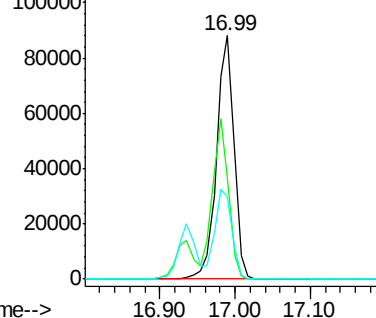


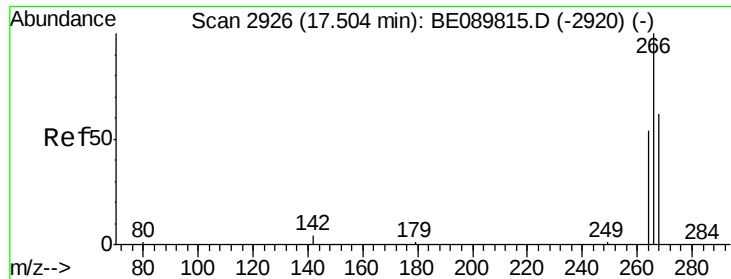
#14
Hexachlorobenzene
Concen: 7.96 ng
RT: 16.99 min Scan# 2870
Delta R.T. 0.01 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	60.5	53.3	79.9
249	37.2	31.1	46.7



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





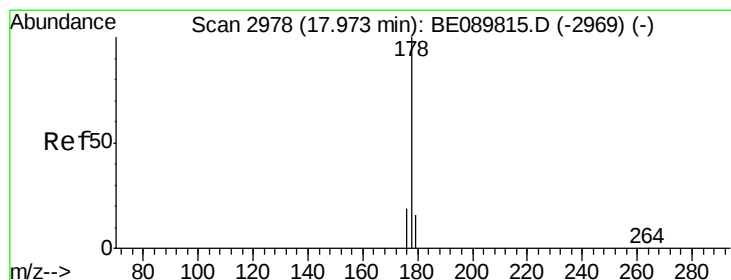
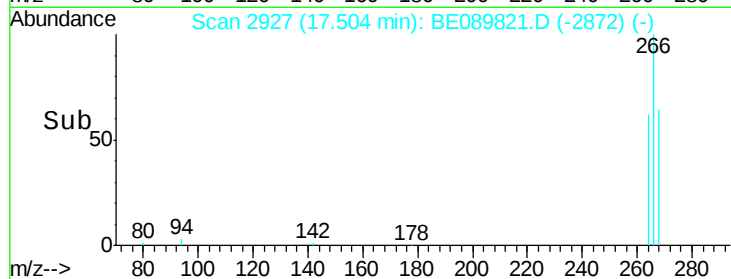
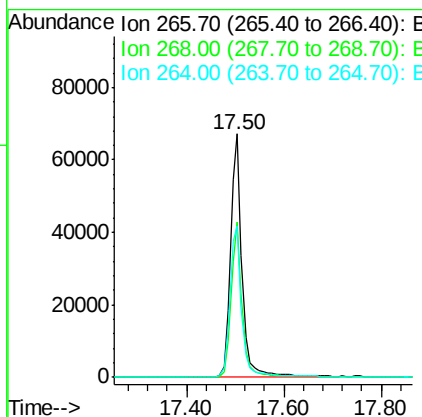
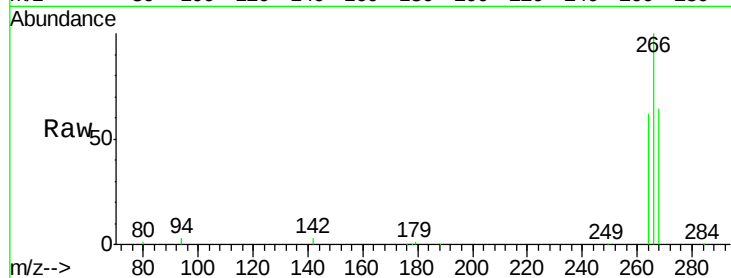
#15
 Pentachlorophenol
 Concen: 13.37 ng
 RT: 17.50 min Scan# 2927
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	111648		
268	63.9	51.6	77.4	
264	62.4	50.2	75.2	

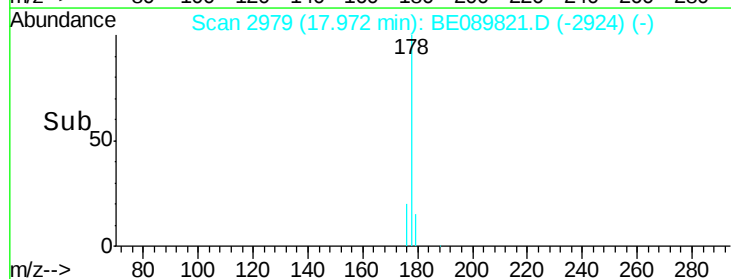
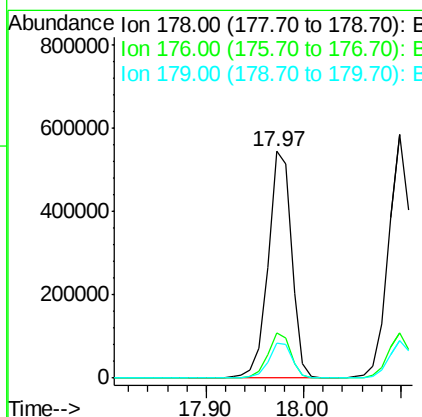
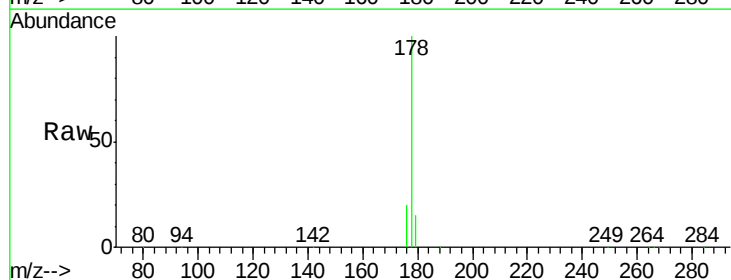
Manual Integrations
 APPROVED

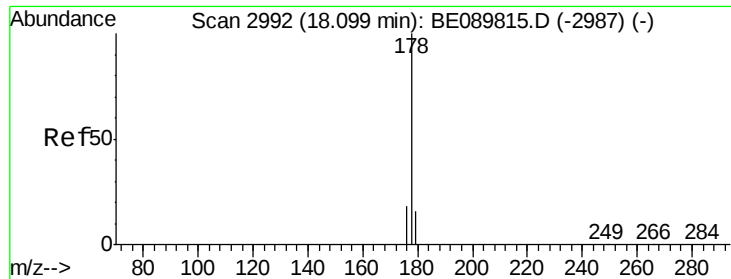
mohammad
 3/25/2015 5:43:16 PM



#16
 Phenanthrene
 Concen: 7.82 ng
 RT: 17.97 min Scan# 2979
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	906212		
176	19.2	15.4	23.0	
179	15.6	12.2	18.4	





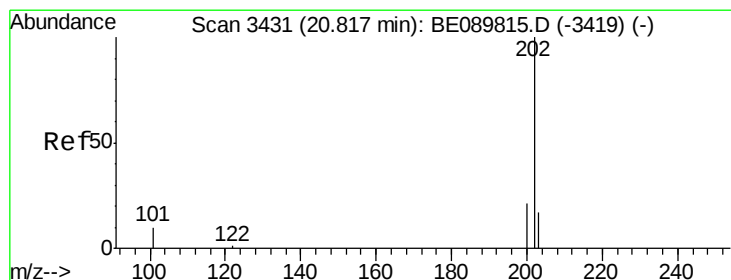
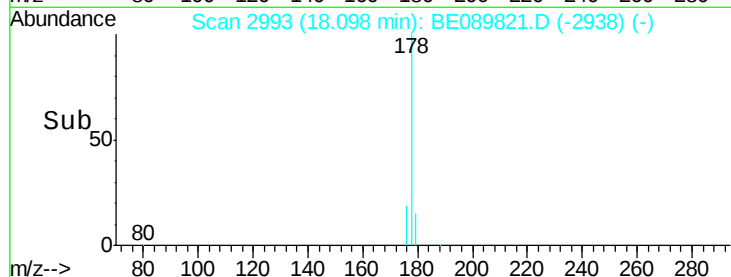
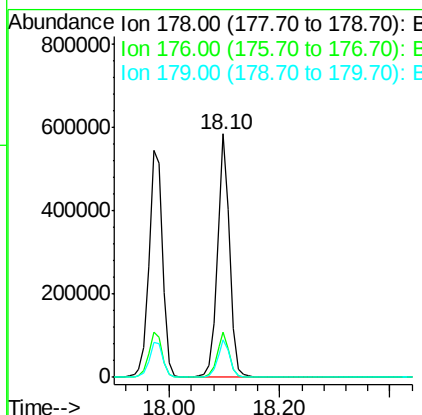
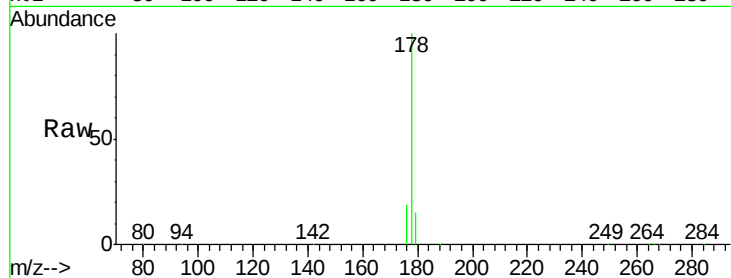
#17
 Anthracene
 Concen: 8.89 ng
 RT: 18.10 min Scan# 2993
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	21.8
179	15.3	12.1	18.1

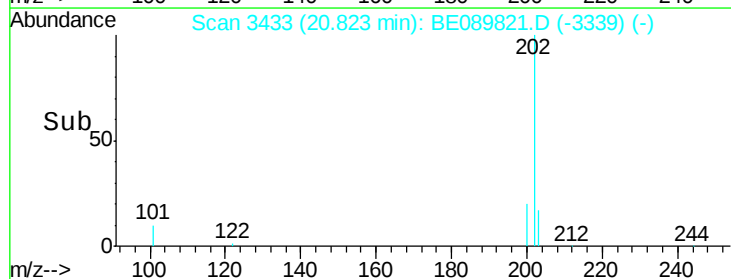
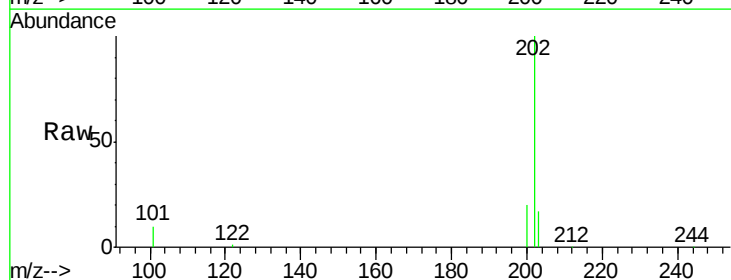
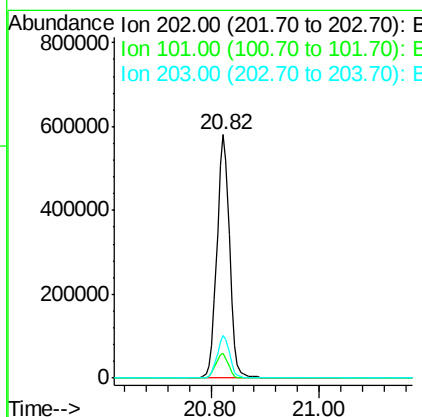
Manual Integrations
 APPROVED

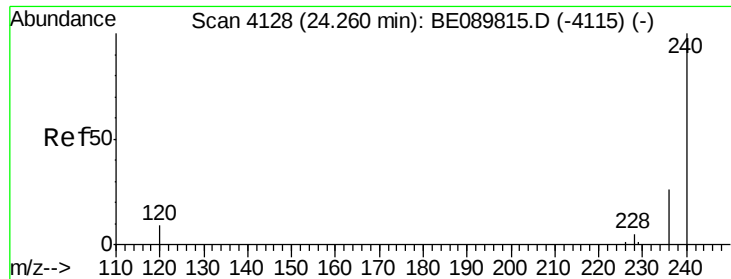
mohammad
 3/25/2015 5:43:16 PM



#18
 Fluoranthene
 Concen: 8.98 ng
 RT: 20.82 min Scan# 3433
 Delta R.T. 0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.2	12.2
203	17.4	14.2	21.4





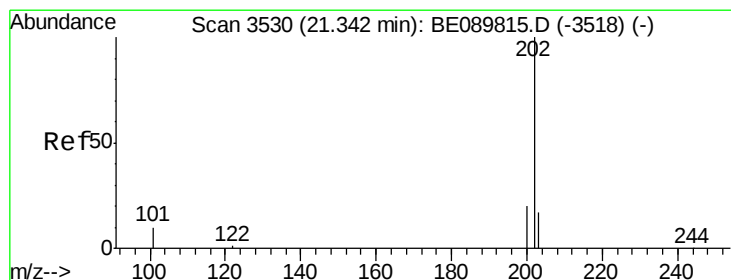
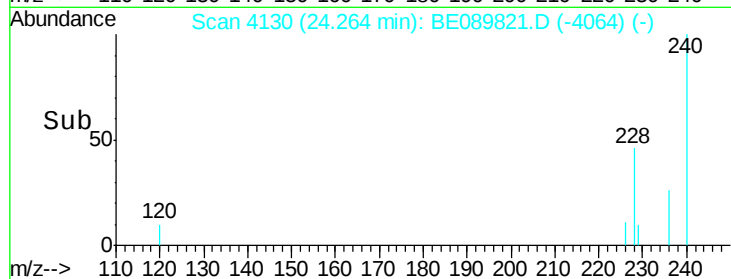
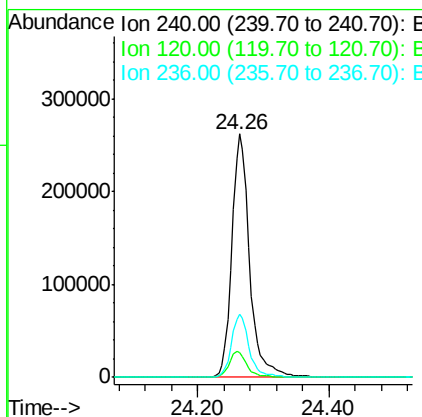
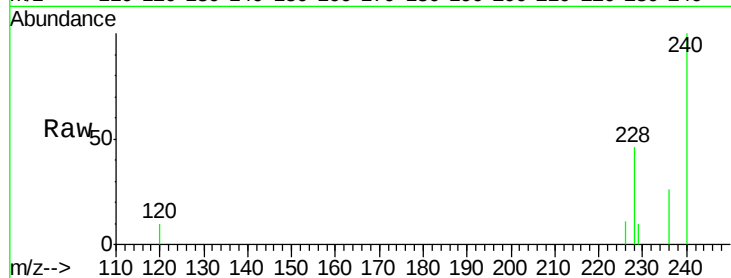
#19
Chrysene-d12
Concen: 5.00 ng
RT: 24.26 min Scan# 4130
Delta R.T. 0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB82216BSD

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	493412		
120	10.3	7.5	11.3	
236	26.2	20.5	30.7	

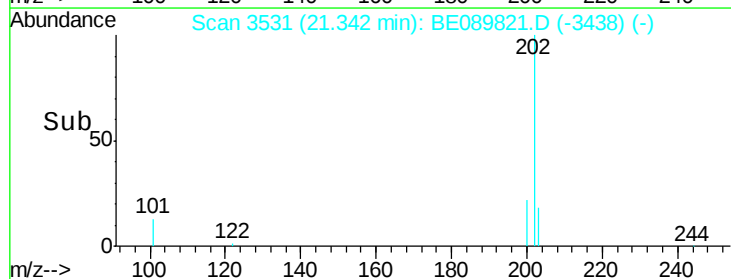
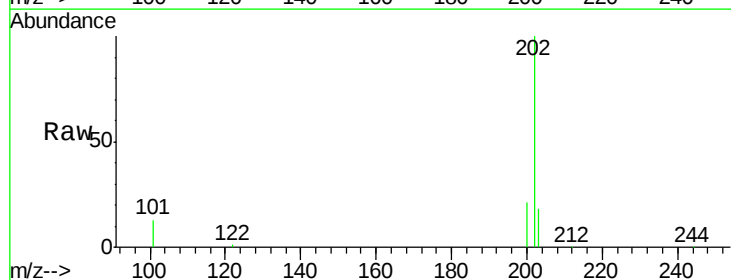
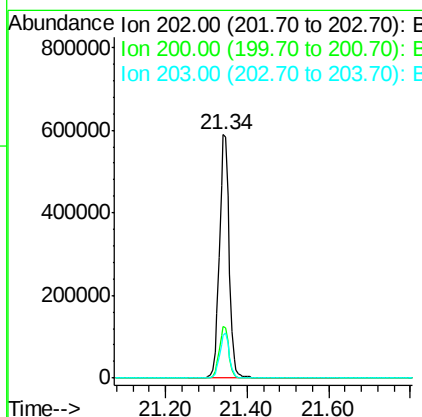
Manual Integrations
APPROVED

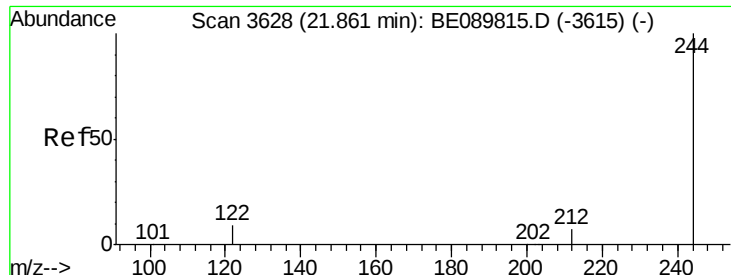
mohammad
3/25/2015 5:43:16 PM



#20
Pyrene
Concen: 7.89 ng
RT: 21.34 min Scan# 3531
Delta R.T. -0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	987770		
200	21.0	15.9	23.9	
203	18.1	13.6	20.4	





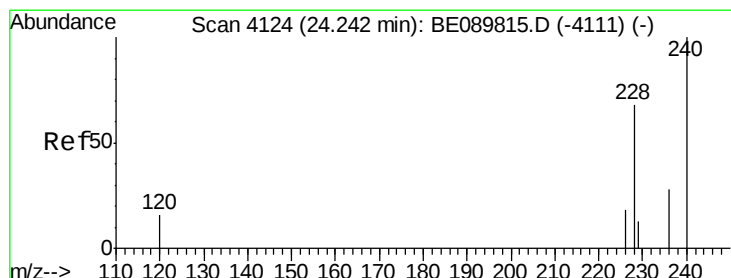
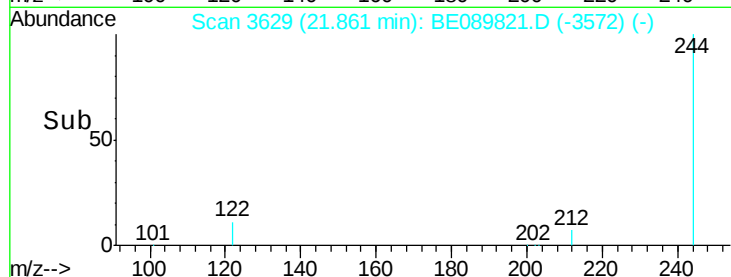
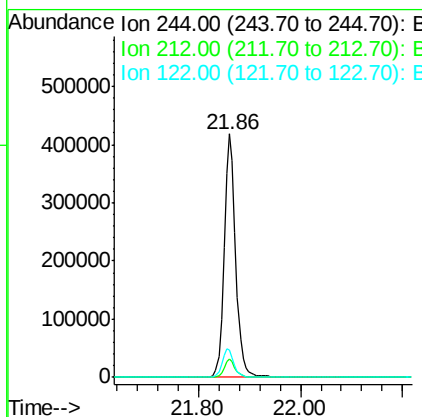
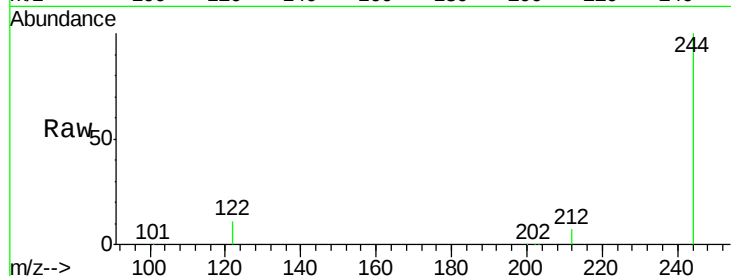
#21
 Terphenyl-d14
 Concen: 9.05 ng
 RT: 21.86 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.3	10.9
122	11.4	10.5	15.7

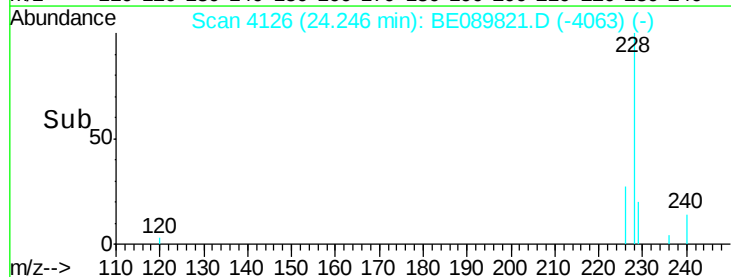
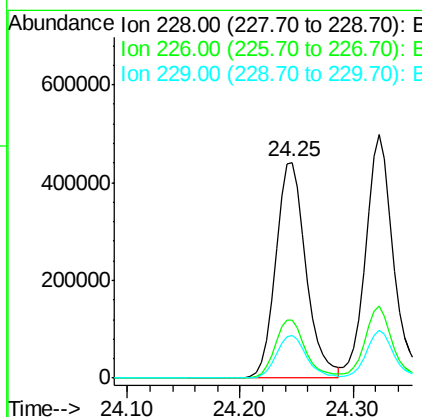
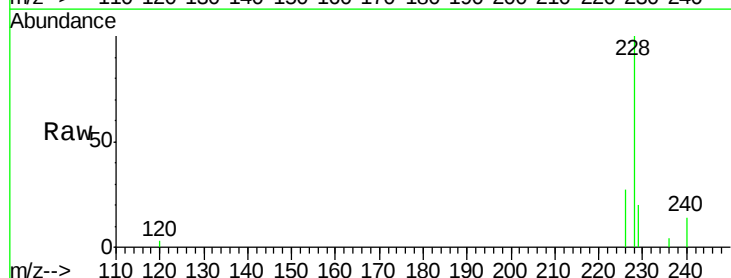
Manual Integrations
 APPROVED

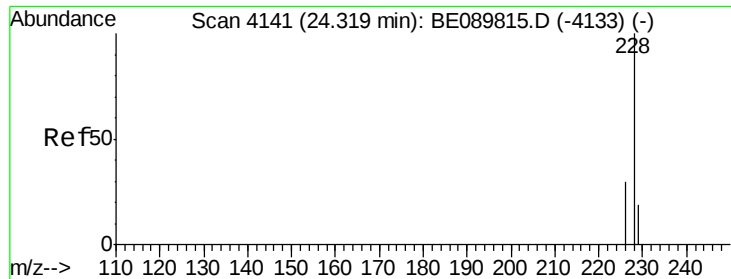
mohammad
 3/25/2015 5:43:16 PM



#22
 Benzo(a)anthracene
 Concen: 8.88 ng
 RT: 24.25 min Scan# 4126
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	19.8	29.8
229	20.1	16.3	24.5





#23

Chrysene

Concen: 8.64 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

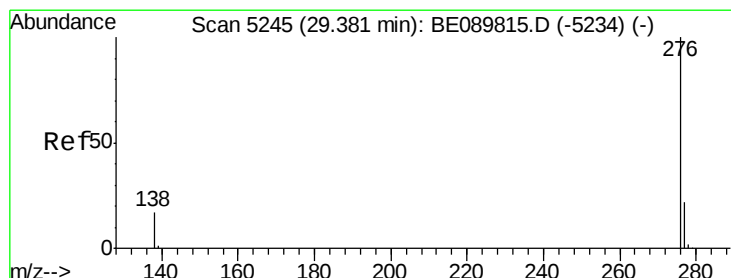
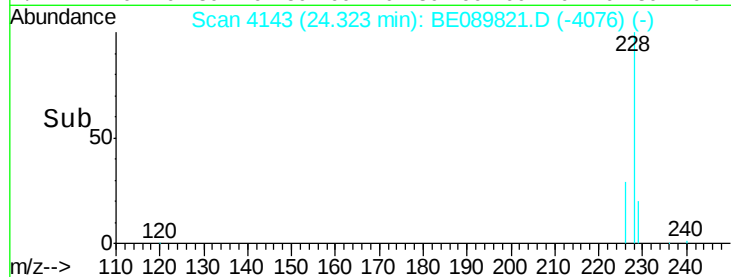
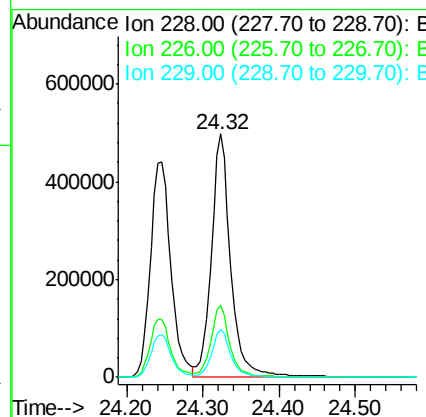
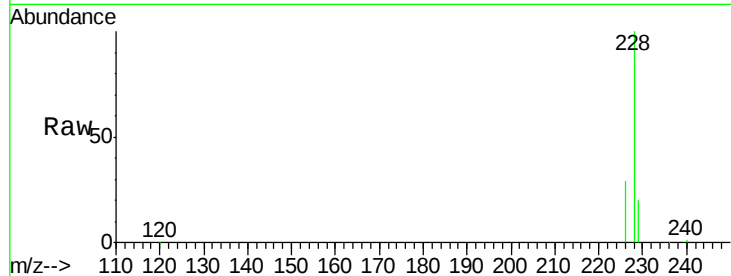
ClientSampleId :

PB82216BSD

Tgt Ion:	228	Resp:	870499
Ion Ratio		Lower	Upper
228	100		
226	29.5	23.0	34.4
229	19.7	15.8	23.6

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#24

Indeno(1,2,3-cd)pyrene

Concen: 6.77 ng m

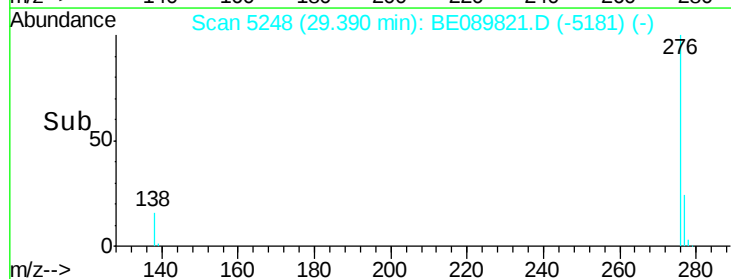
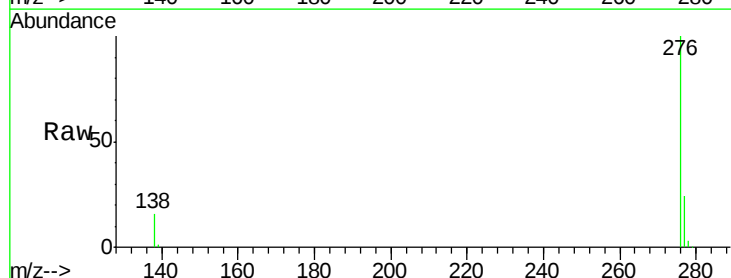
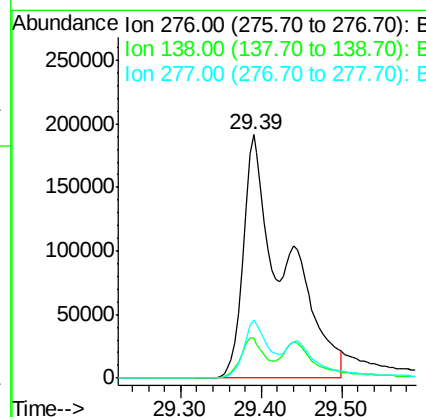
RT: 29.39 min Scan# 5248

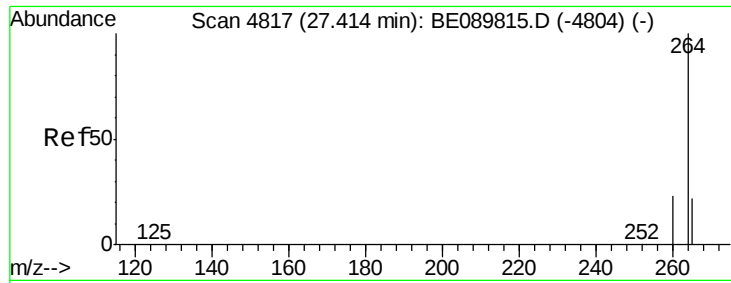
Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Tgt Ion:	276	Resp:	682647
Ion Ratio		Lower	Upper
276	100		
138	9.4	4.3	6.5#
277	14.2	9.0	13.4#





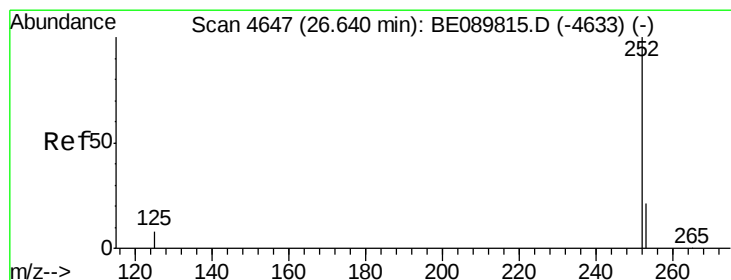
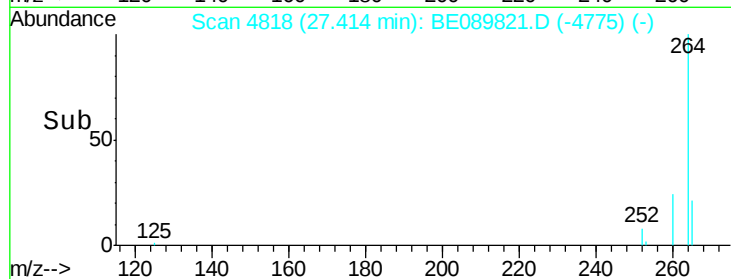
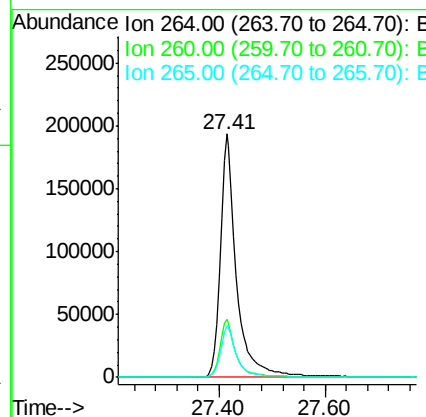
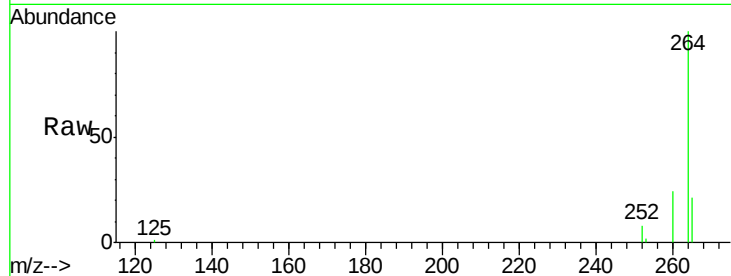
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.41 min Scan# 4818
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.2	27.2
265	21.3	17.3	25.9

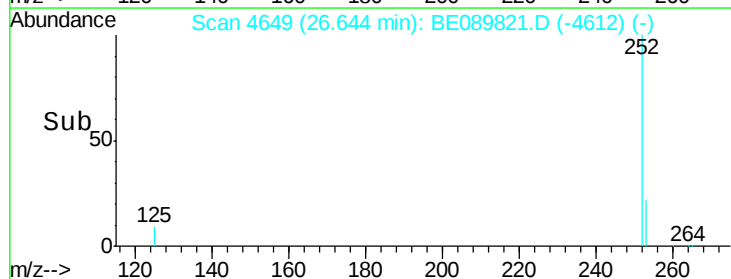
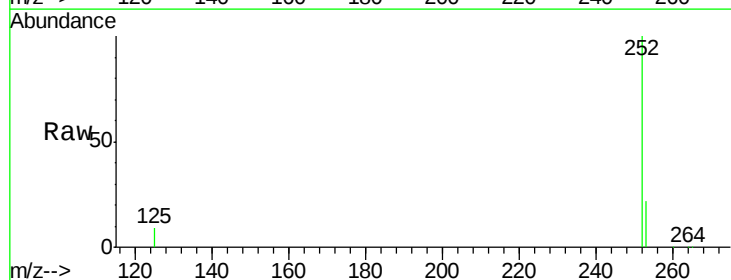
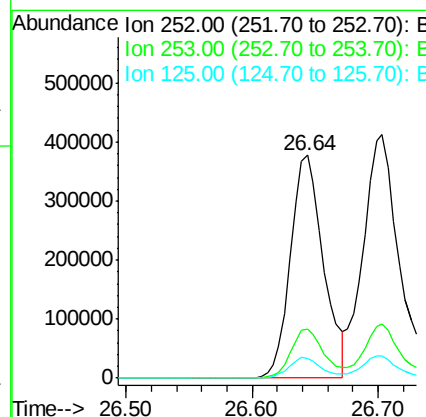
Manual Integrations
 APPROVED

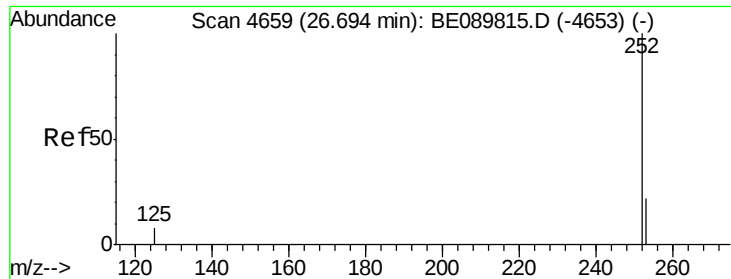
mohammad
 3/25/2015 5:43:16 PM



#26
 Benzo(b)fluoranthene
 Concen: 7.69 ng
 RT: 26.64 min Scan# 4649
 Delta R.T. 0.01 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	9.1	8.7	13.1





#27

Benzo(k)fluoranthene

Concen: 10.71 ng

RT: 26.70 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

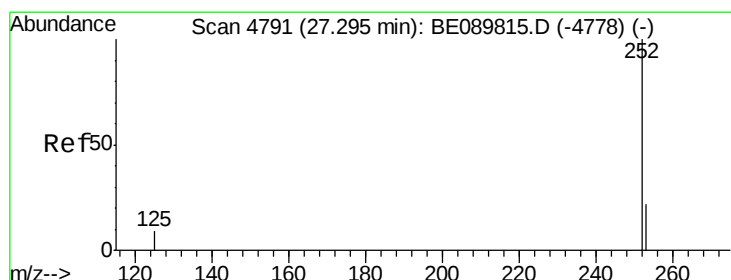
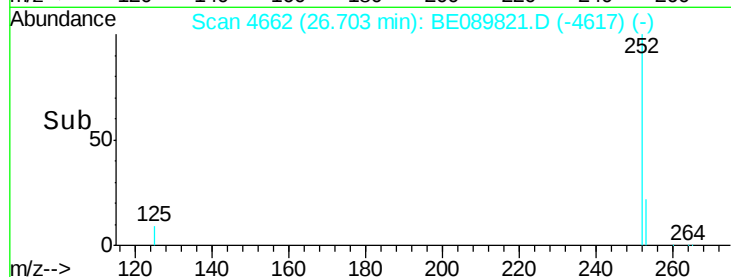
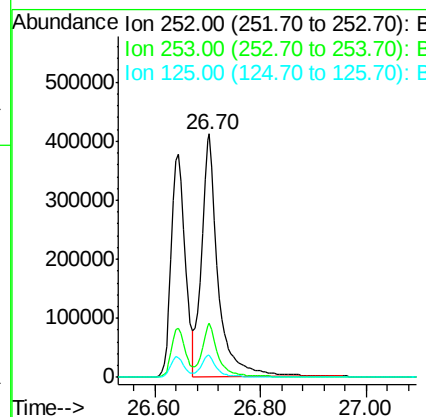
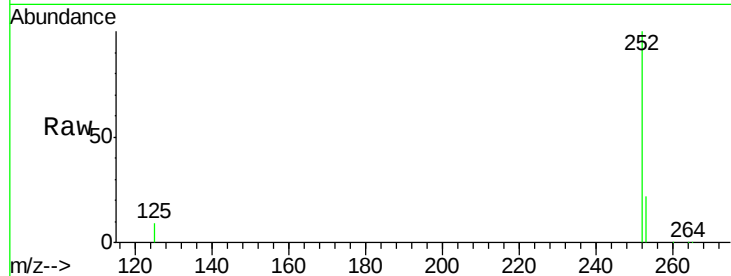
ClientSampleId :

PB82216BSD

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		904856		
253	22.4	18.6	28.0		
125	8.9	10.8	16.2		

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#28

Benzo(a)pyrene

Concen: 8.14 ng

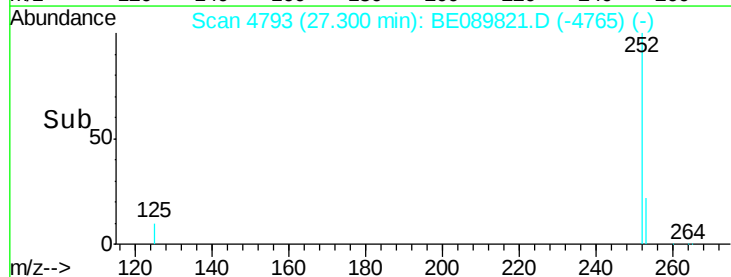
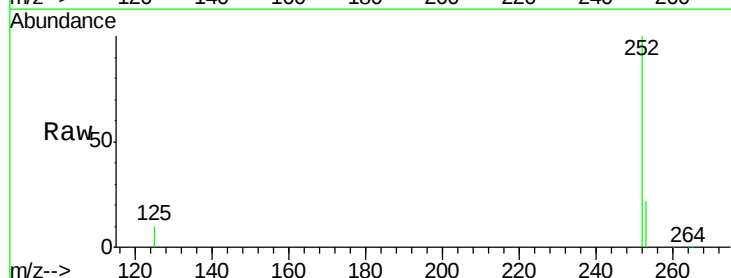
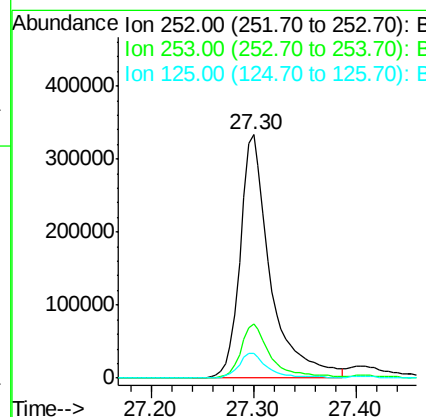
RT: 27.30 min Scan# 4793

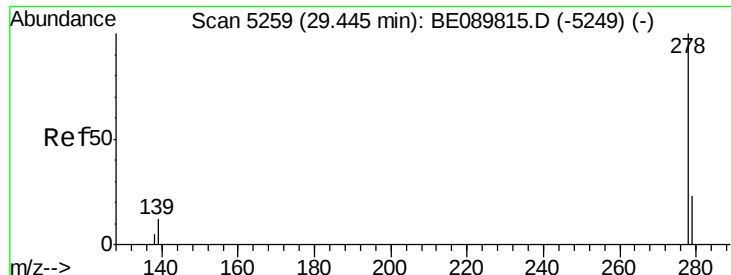
Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		678575		
253	22.5	21.0	31.4		
125	10.1	13.3	19.9		





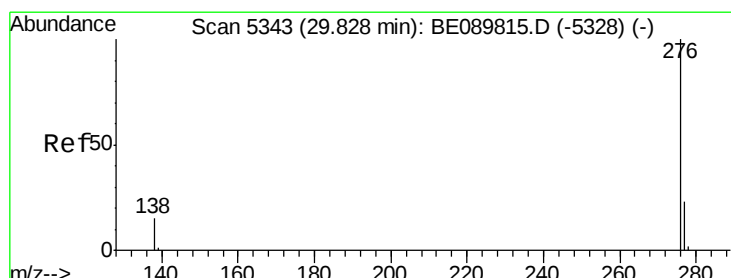
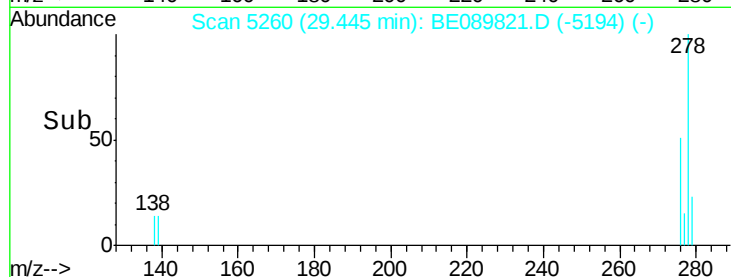
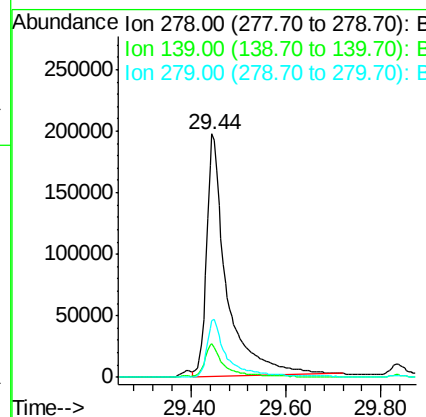
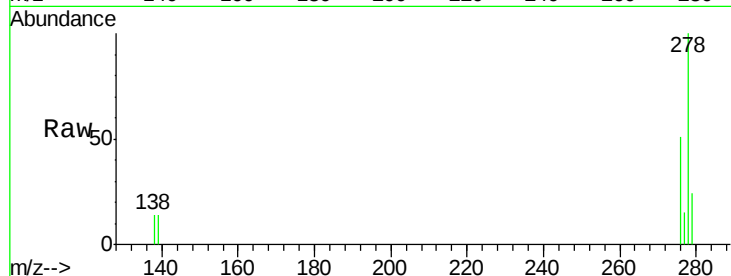
#29
Dibenzo(a,h)anthracene
Concen: 7.33 ng
RT: 29.44 min Scan# 5260
Delta R.T. 0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB82216BSD

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	574908		
139	13.7	20.0	30.0	#
279	23.5	28.9	43.3	#

Manual Integrations
APPROVED

mohammad
3/25/2015 5:43:16 PM



#30
Benzo(g,h,i)perylene
Concen: 7.98 ng
RT: 29.83 min Scan# 5345
Delta R.T. 0.01 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	694434		
277	23.5	19.2	28.8	
138	18.6	22.9	34.3	#

