

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088156.D
 Acq On : 21 Oct 2014 23:01
 Operator : TP/JJ
 Sample : F4351-17
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

Manual Integrations
 APPROVED

mohammad
 10/22/2014 1:55:22 PM

Quant Time: Oct 22 05:03:37 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	20754	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	82687	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	45200	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	87046	5.00	ng	0.00
16) Chrysene-d12	18.38	240	53429	5.00	ng	0.00
22) Perylene-d12	21.44	264	43004	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	47884	8.03	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	89166	7.14	ng	0.00
18) Terphenyl-d14	16.15	244	87927	10.23	ng	0.00
Target Compounds						Qvalue
6) 2-Methylnaphthalene	9.58	142	1295	0.13	ng	97
9) Acenaphthylene	10.66	152	15091	0.22	ng	99
10) Acenaphthene	10.88	154	2734	0.26	ng	94
11) Fluorene	11.55	166	3457	0.31	ng	100
13) Phenanthrene	13.00	178	25880	0.19	ng	96
14) Anthracene	13.09	178	24755	0.36	ng	98
15) Fluoranthene	15.25	202	6438	0.39	ng	100
17) Pyrene	15.70	202	6686	0.46	ng	100
19) Benzo(a)anthracene	18.36	228	20310	0.43	ng	98
20) Chrysene	18.43	228	21714	0.47	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	14201m	0.27	ng	
23) Benzo(b)fluoranthene	20.68	252	3937	0.38	ng	# 94
24) Benzo(k)fluoranthene	20.74	252	4266	0.39	ng	# 93
25) Benzo(a)pyrene	21.32	252	3437	0.36	ng	# 91
26) Dibenzo(a,h)anthracene	23.73	278	2853	0.31	ng	# 88
27) Benzo(g,h,i)perylene	24.26	276	14437	0.35	ng	94

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

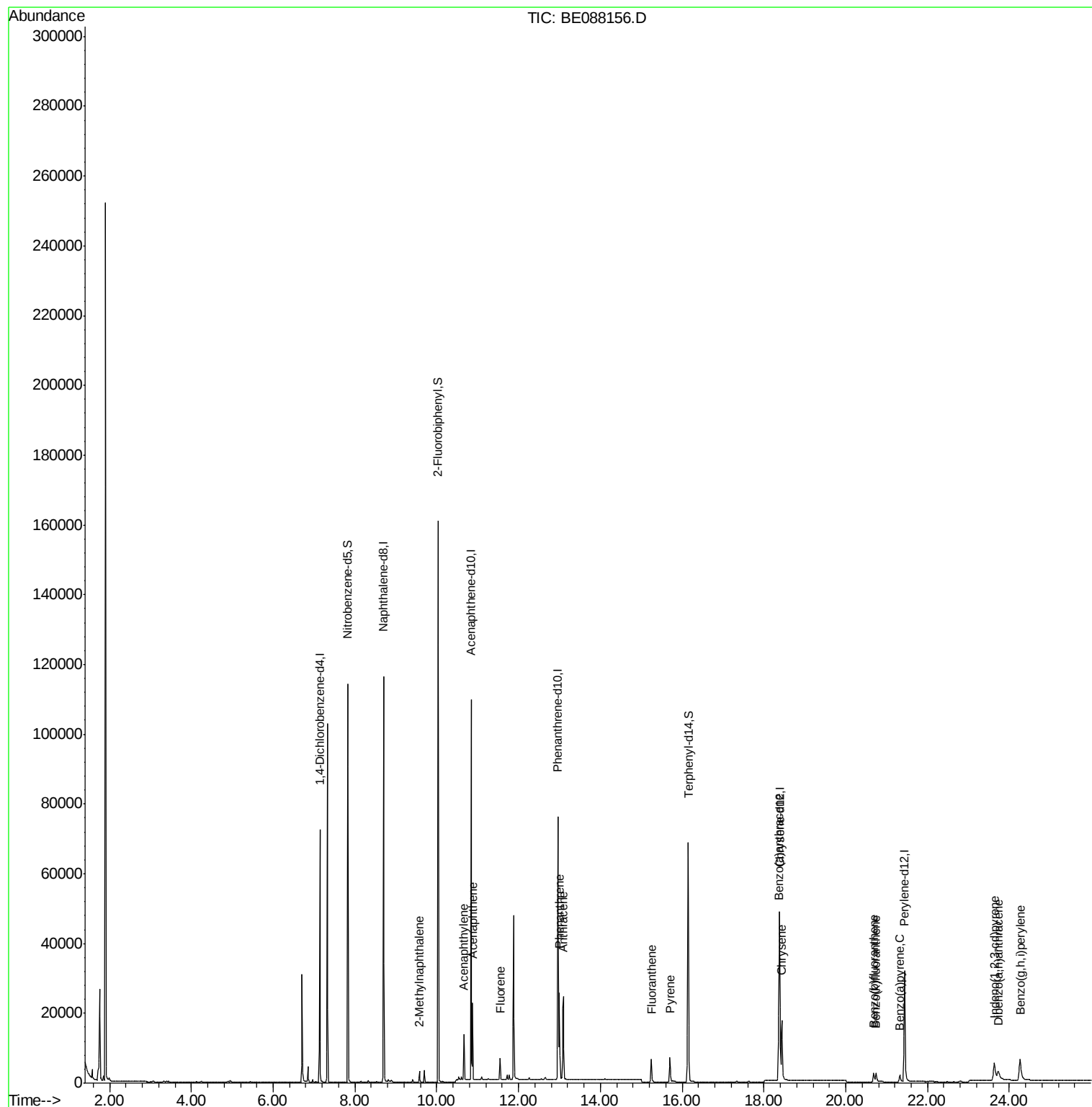
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088156.D
Acq On : 21 Oct 2014 23:01
Operator : TP/JJ
Sample : F4351-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

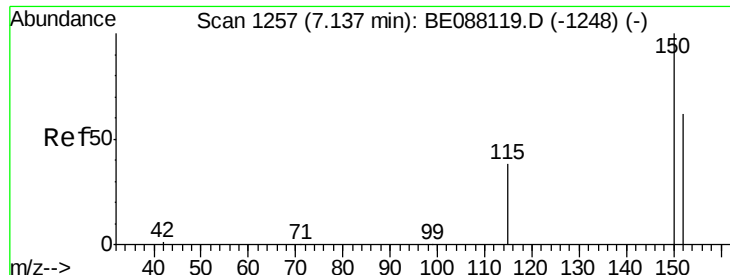
Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM

Quant Time: Oct 22 05:03:37 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:11:14 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088156.D

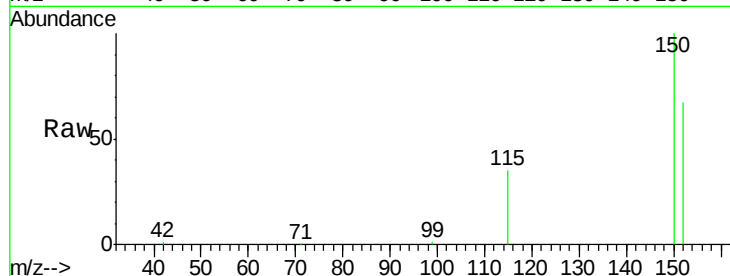
Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014



Tgt Ion:152 Resp: 20754

Ion Ratio Lower Upper

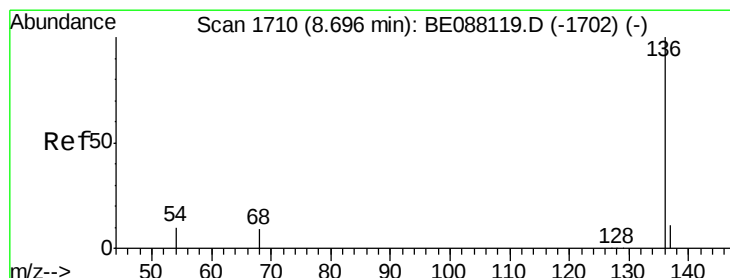
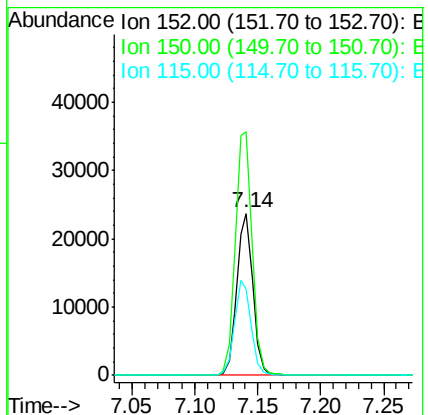
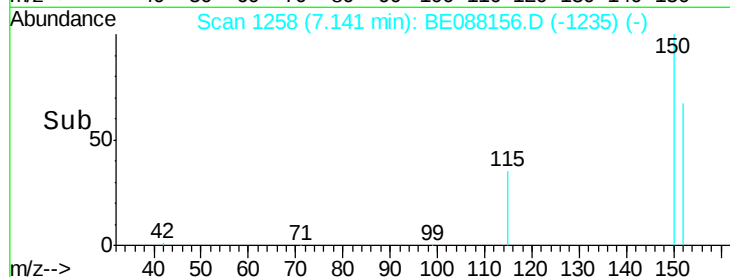
152 100

150 150.3 129.2 193.8

115 53.2 49.3 73.9

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

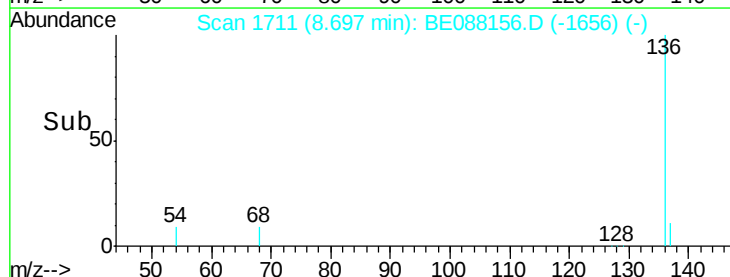
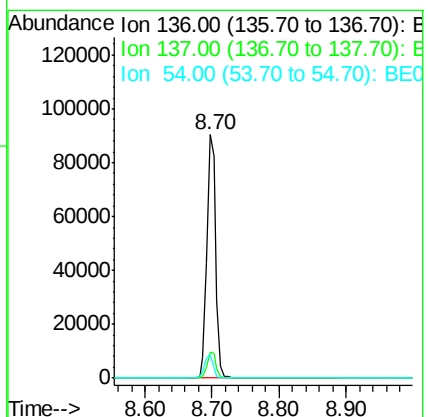
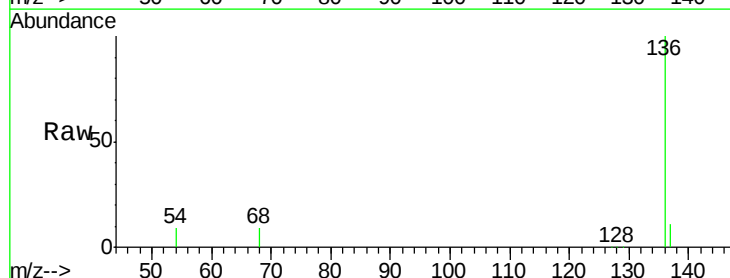
Tgt Ion:136 Resp: 82687

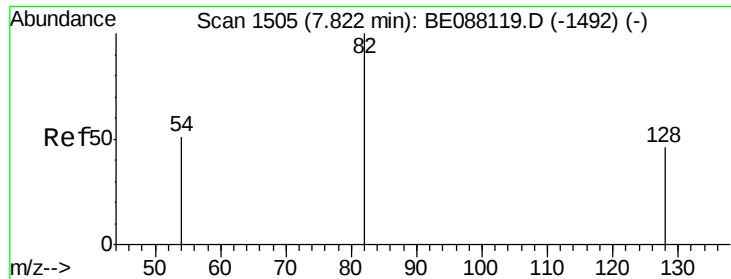
Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

54 9.5 7.7 11.5





#4

Nitrobenzene-d5

Concen: 8.03 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088156.D

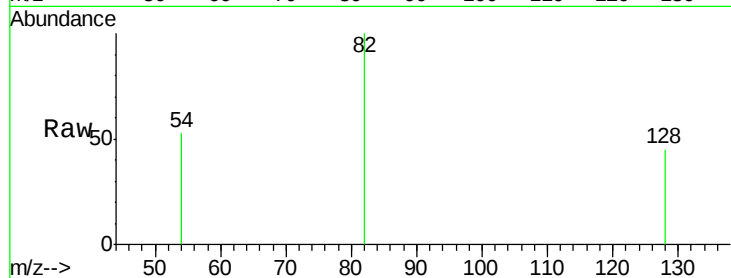
Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014



Tgt Ion: 82 Resp: 47884

Ion Ratio Lower Upper

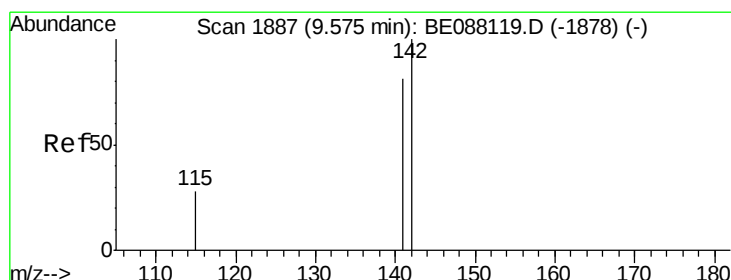
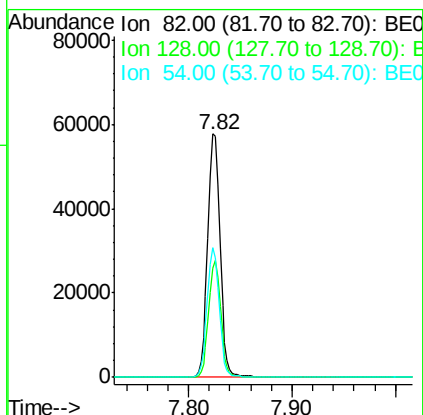
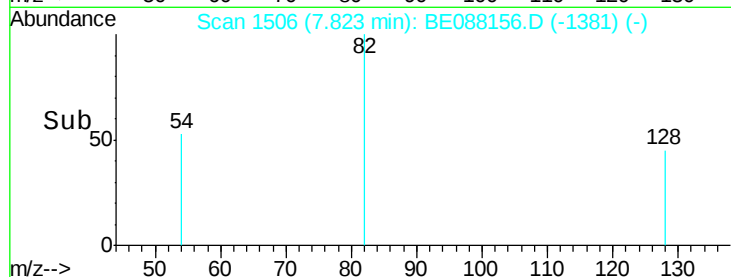
82 100

128 45.1 37.1 55.7

54 53.3 41.1 61.7

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM



#6

2-Methylnaphthalene

Concen: 0.13 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

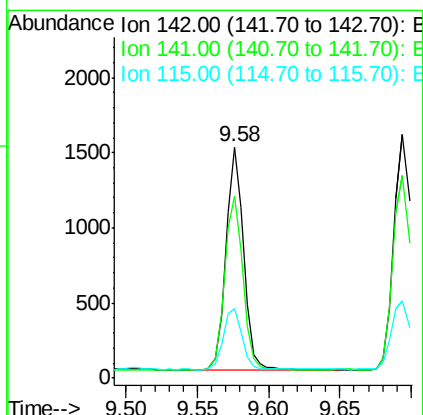
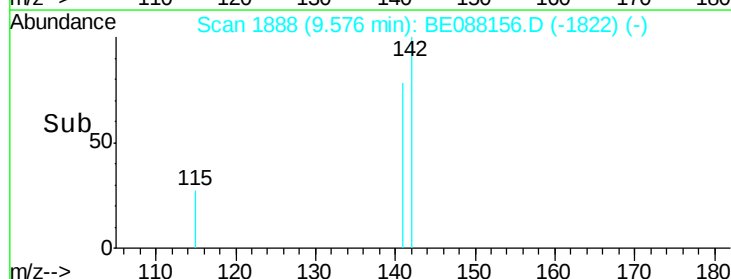
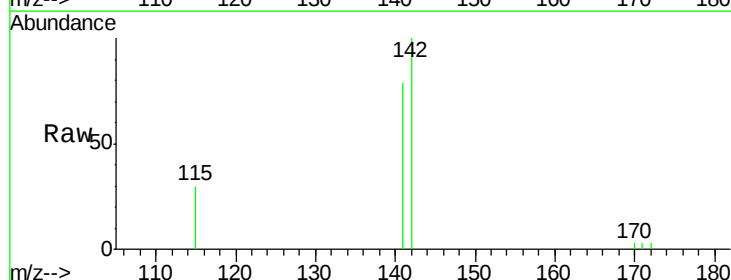
Tgt Ion: 142 Resp: 1295

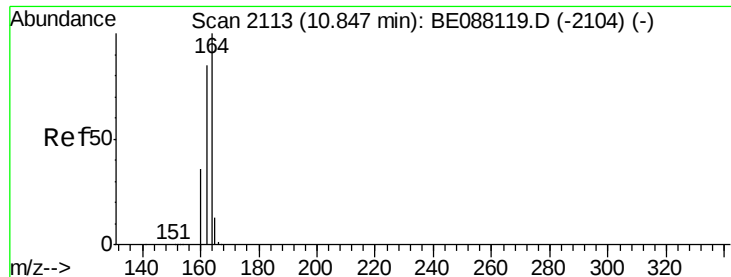
Ion Ratio Lower Upper

142 100

141 78.8 64.6 97.0

115 30.1 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088156.D

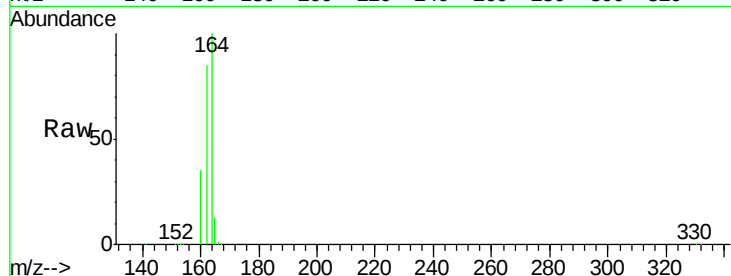
Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

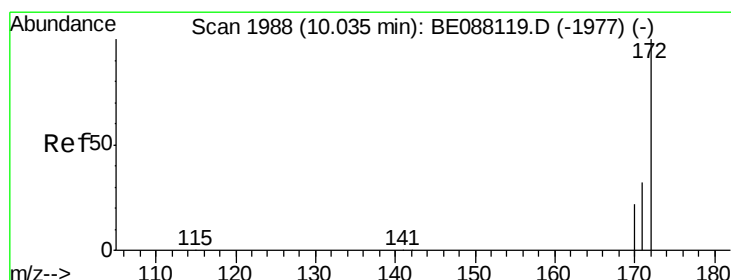
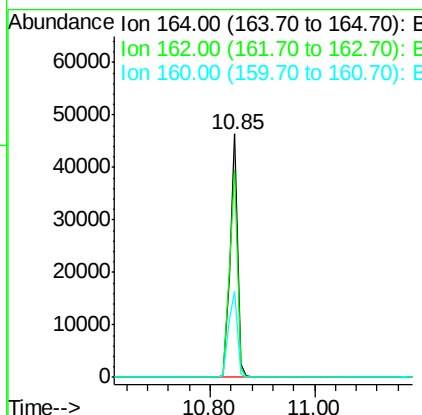
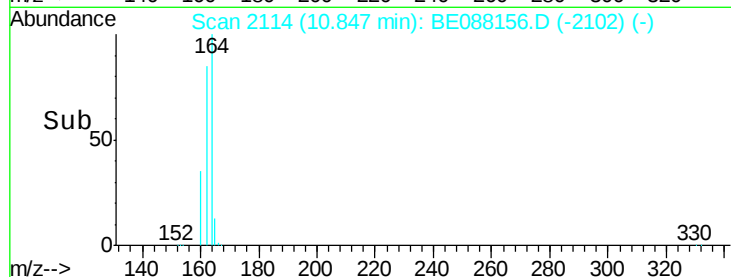
YS19-SW11-1014



Tgt Ion:	164	Resp:	45200
Ion Ratio	Lower	Upper	
164	100		
162	85.3	68.3	102.5
160	35.4	28.7	43.1

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM



#8

2-Fluorobiphenyl

Concen: 7.14 ng

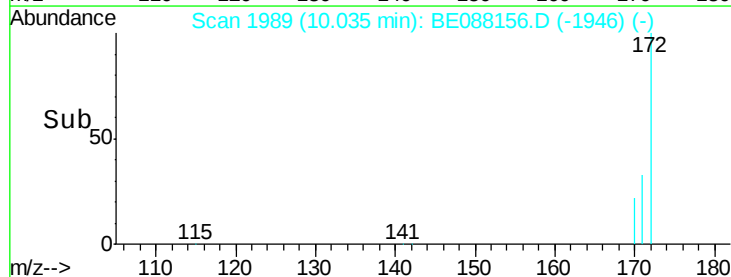
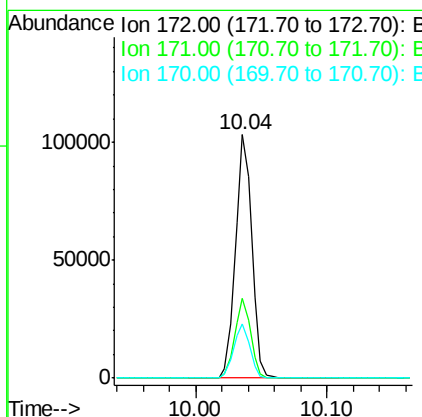
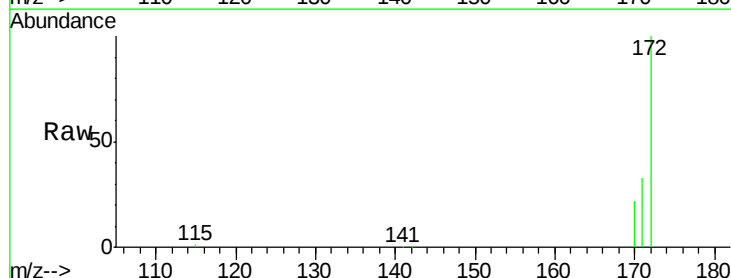
RT: 10.04 min Scan# 1989

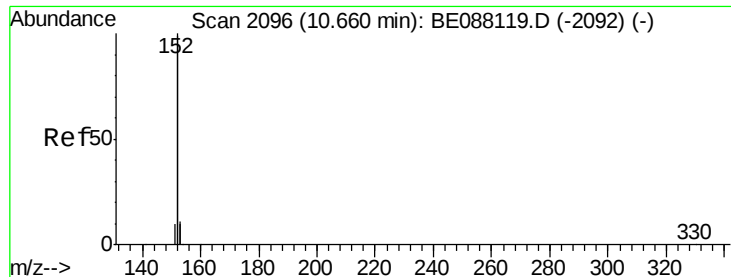
Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Tgt Ion:	172	Resp:	89166
Ion Ratio	Lower	Upper	
172	100		
171	32.8	25.4	38.2
170	22.5	17.4	26.2





#9

Acenaphthylene

Concen: 0.22 ng

RT: 10.66 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

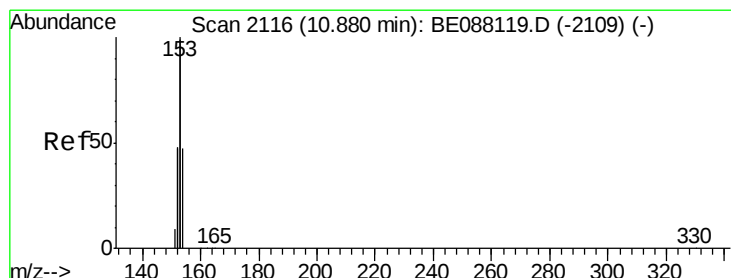
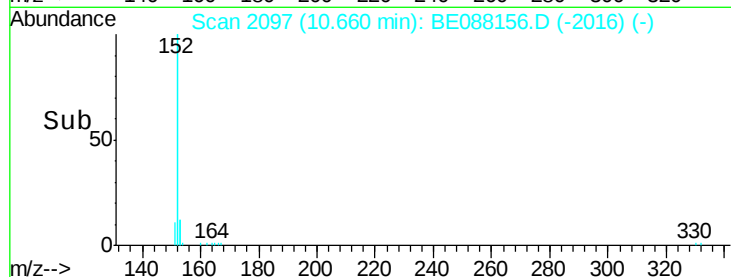
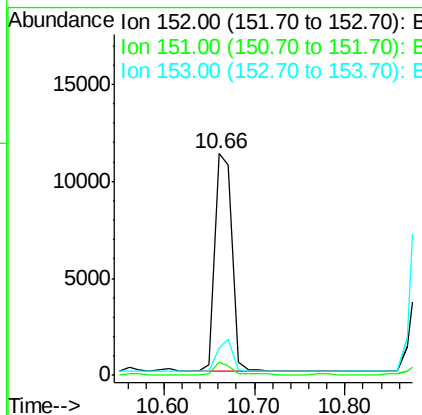
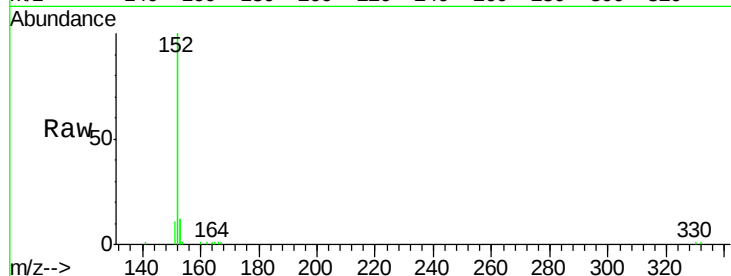
ClientSampleId :

YS19-SW11-1014

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM

Tgt Ion:	152	Resp:	15091
Ion Ratio	Lower	Upper	
152	100		
151	4.7	3.7	5.5
153	13.3	10.4	15.6



#10

Acenaphthene

Concen: 0.26 ng

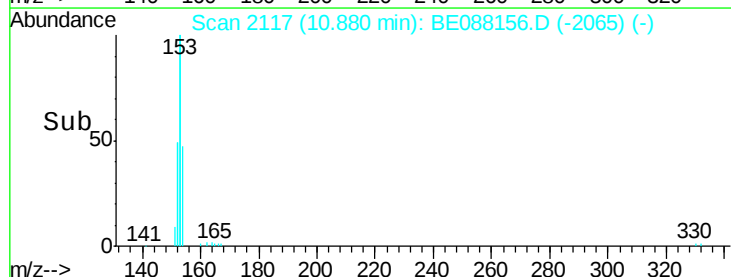
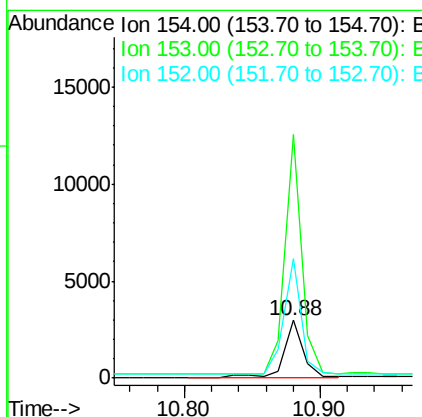
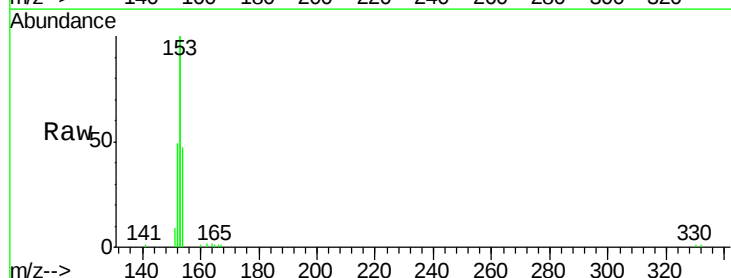
RT: 10.88 min Scan# 2117

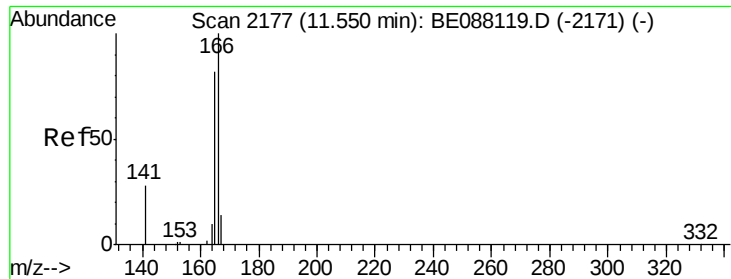
Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Tgt Ion:	154	Resp:	2734
Ion Ratio	Lower	Upper	
154	100		
153	394.4	327.8	491.6
152	189.8	157.6	236.4





#11

Fluorene

Concen: 0.31 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088156.D

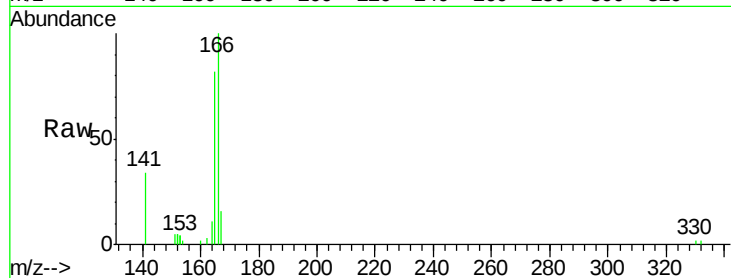
Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

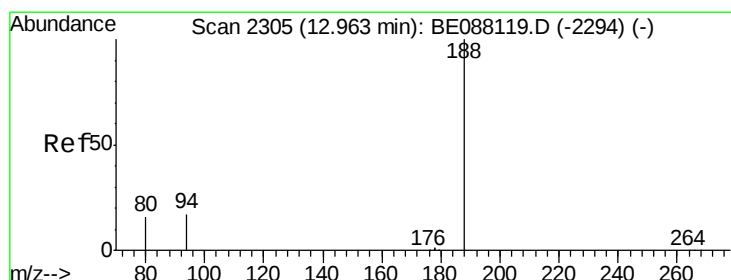
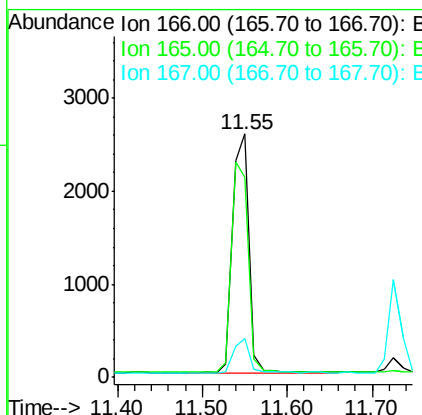
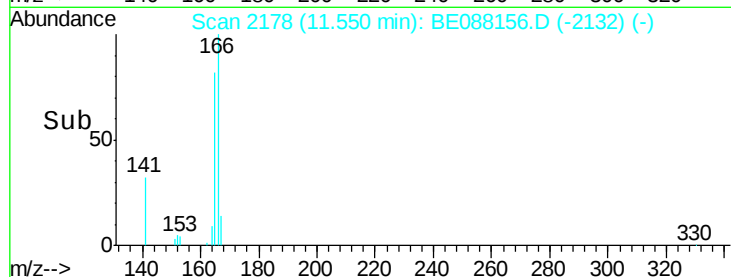
YS19-SW11-1014



Tgt Ion:	166	Resp:	3457
Ion Ratio	Lower	Upper	
166	100		
165	89.1	71.4	107.2
167	13.7	10.6	16.0

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM



#12

Phenanthrene-d10

Concen: 5.00 ng

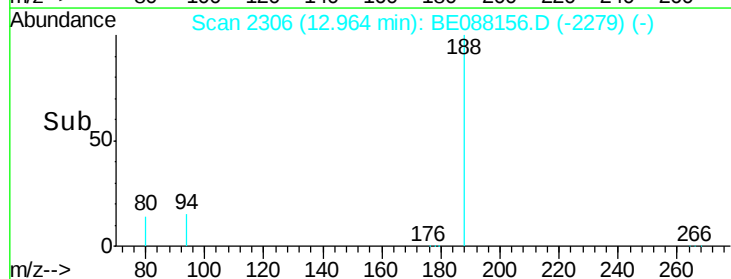
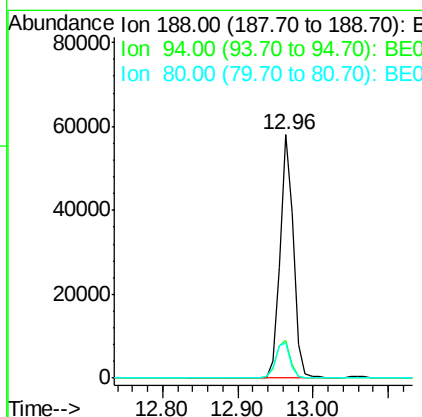
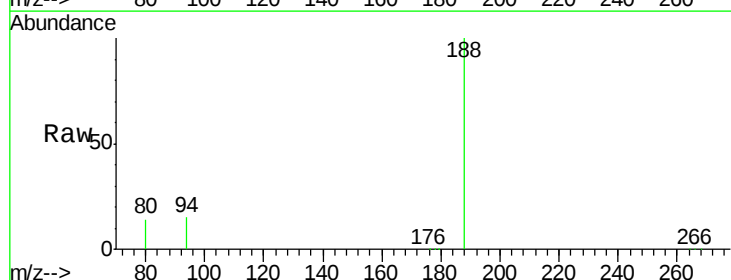
RT: 12.96 min Scan# 2306

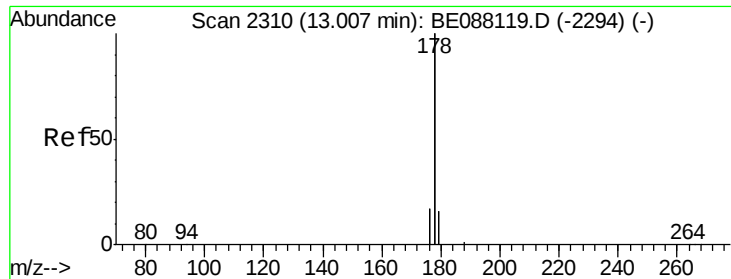
Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Tgt Ion:	188	Resp:	87046
Ion Ratio	Lower	Upper	
188	100		
94	15.5	13.9	20.9
80	14.2	12.9	19.3





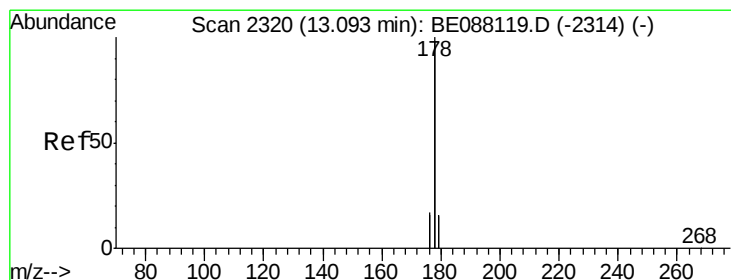
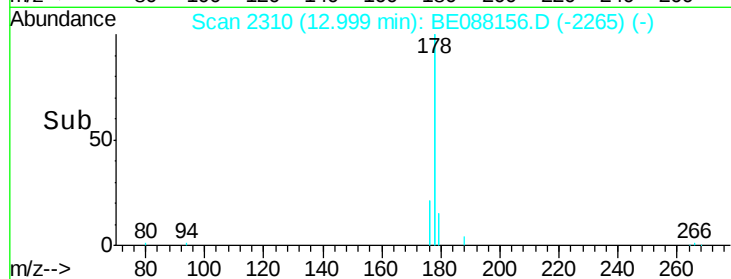
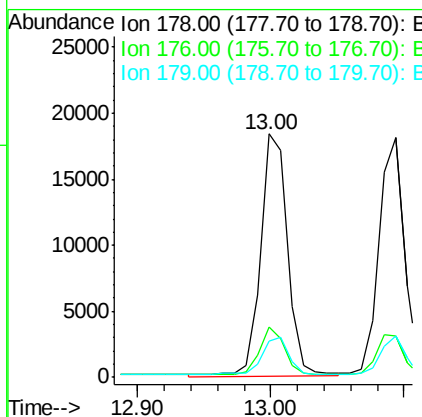
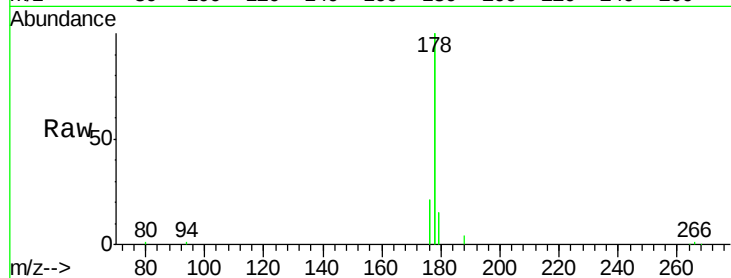
#13
Phenanthrene
Concen: 0.19 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	12.5	18.7
179	18.1	13.5	20.3

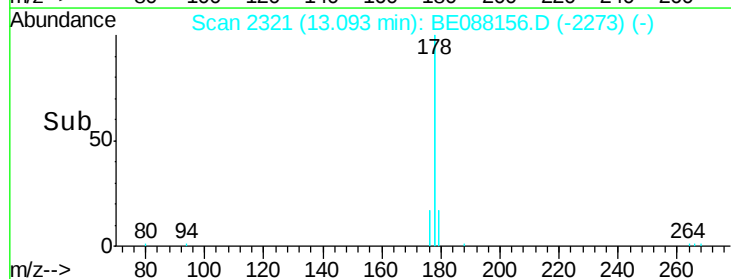
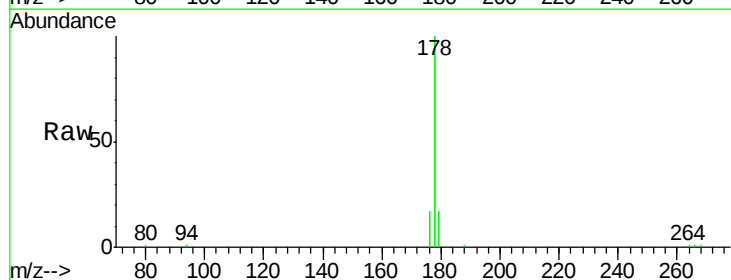
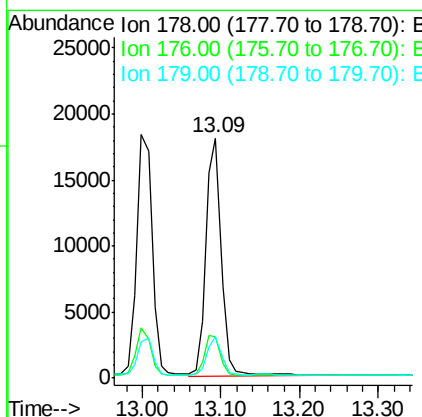
Manual Integrations
APPROVED

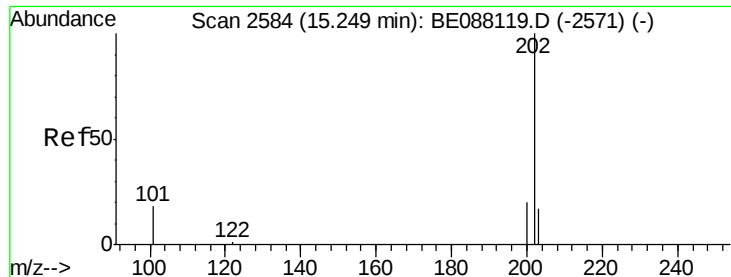
mohammad
10/22/2014 1:55:22 PM



#14
Anthracene
Concen: 0.36 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	14.6	21.8
179	15.0	12.5	18.7





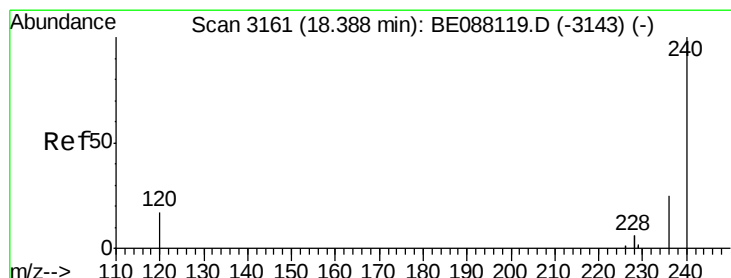
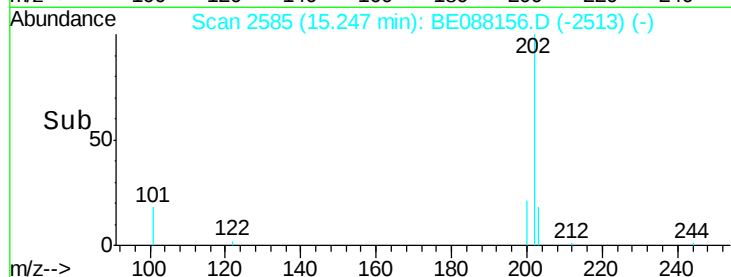
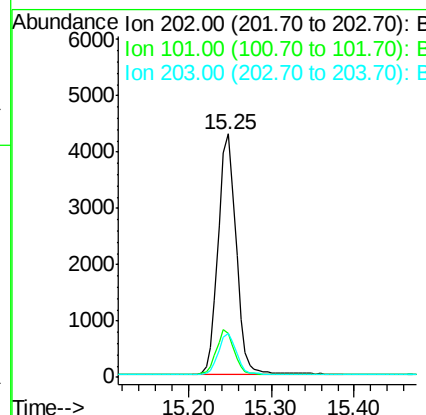
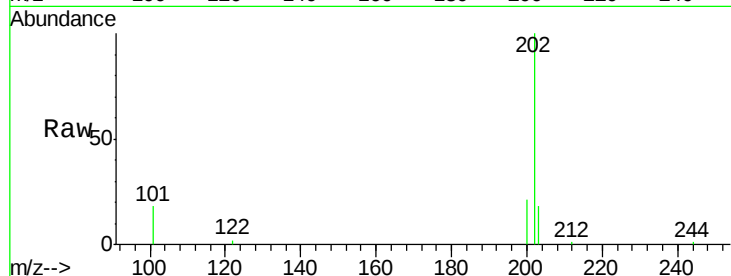
#15
 Fluoranthene
 Concen: 0.39 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.4	14.8	22.2
203	16.8	13.5	20.3

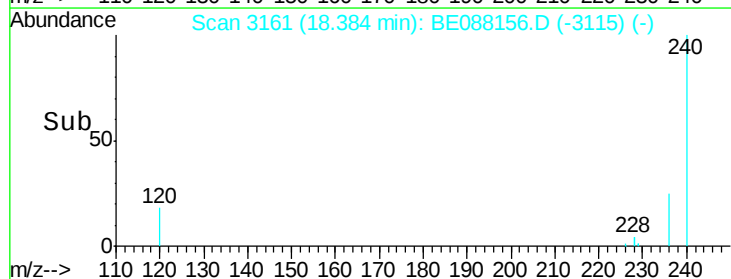
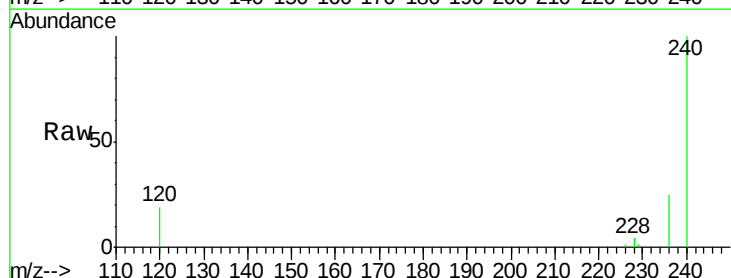
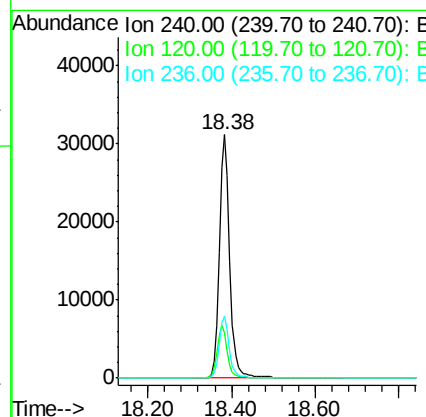
Manual Integrations
 APPROVED

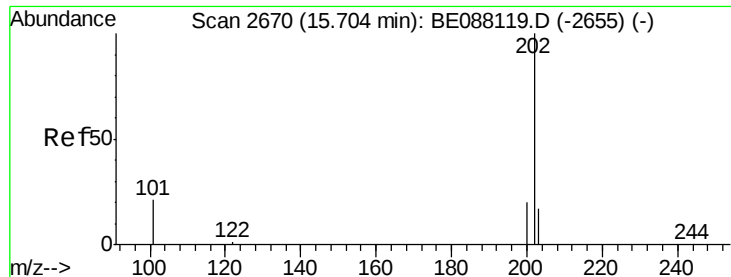
mohammad
 10/22/2014 1:55:22 PM



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3161
 Delta R.T. -0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.6	13.9	20.9
236	25.3	19.9	29.9





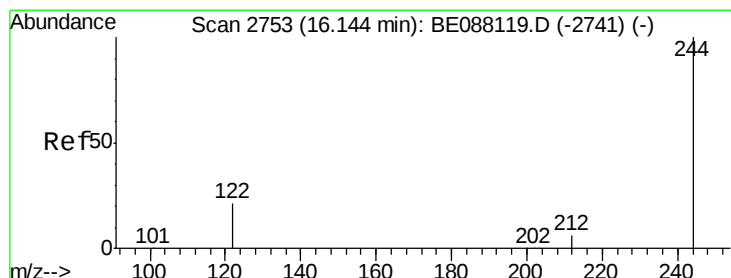
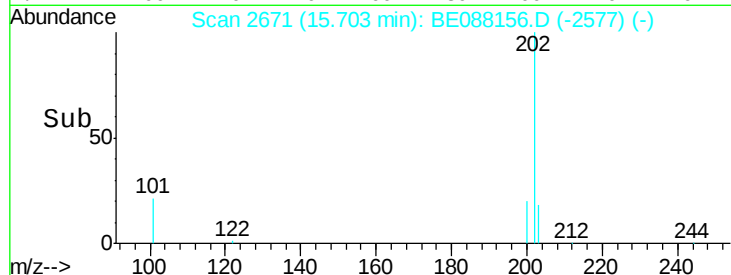
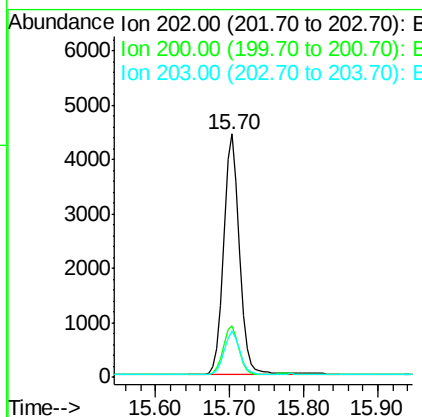
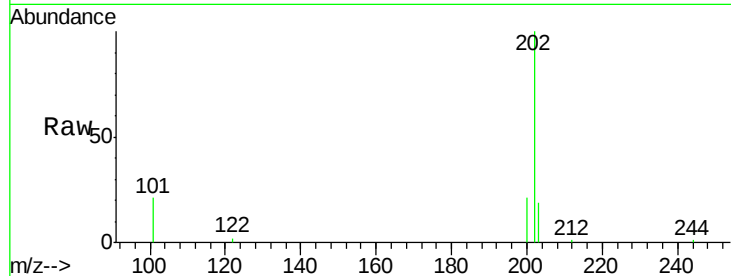
#17
 Pyrene
 Concen: 0.46 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

Tgt Ion:	202	Resp:	6686
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.1	24.1
203	17.6	13.9	20.9

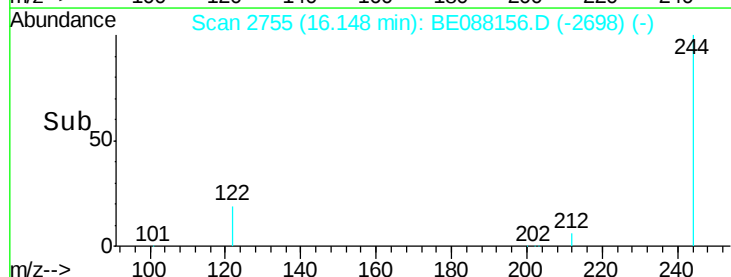
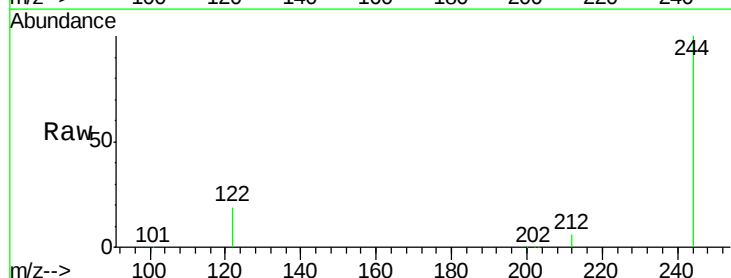
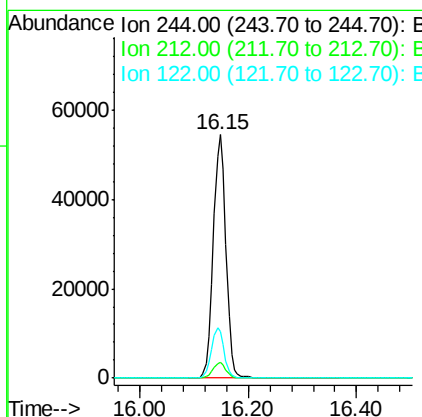
Manual Integrations
 APPROVED

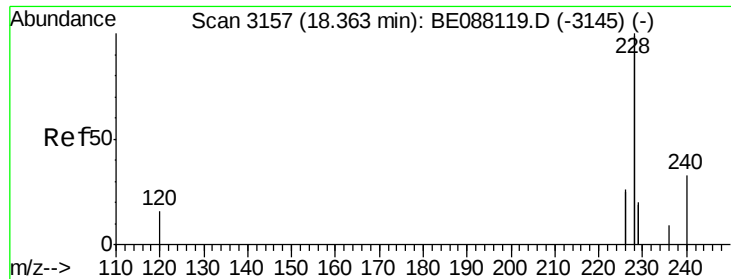
mohammad
 10/22/2014 1:55:22 PM



#18
 Terphenyl-d14
 Concen: 10.23 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Tgt Ion:	244	Resp:	87927
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	19.2	17.5	26.3





#19

Benzo(a)anthracene

Concen: 0.43 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

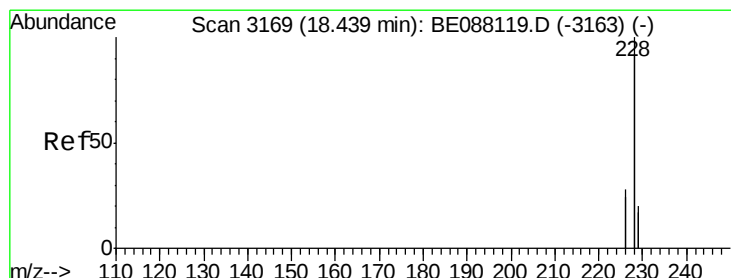
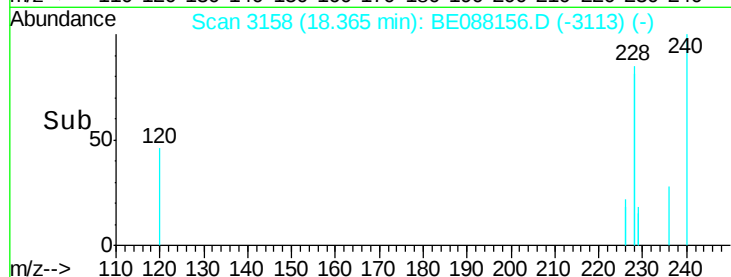
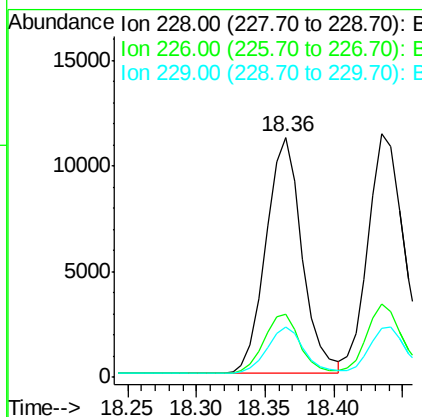
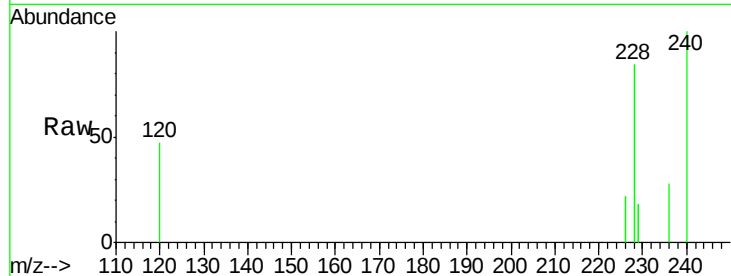
ClientSampleId :

YS19-SW11-1014

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.2	20.8	31.2
229	21.0	15.6	23.4



#20

Chrysene

Concen: 0.47 ng

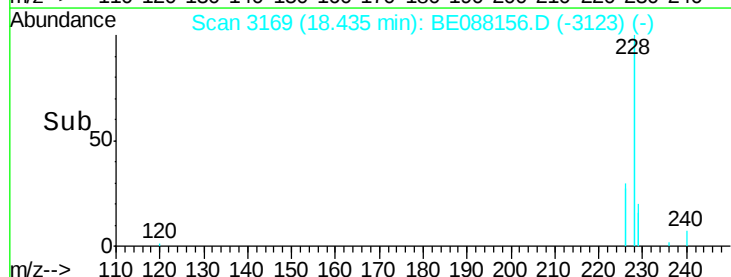
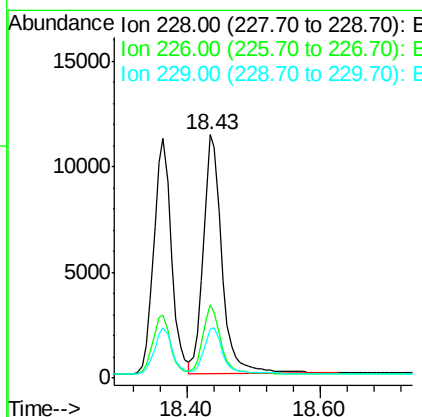
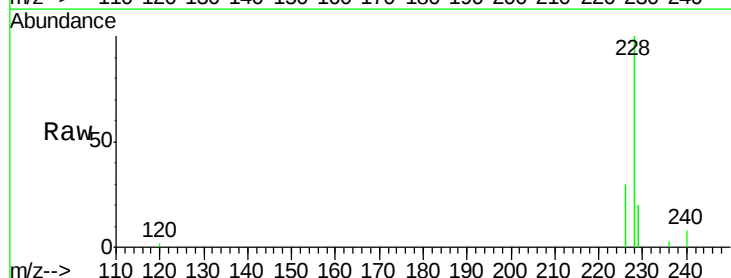
RT: 18.43 min Scan# 3169

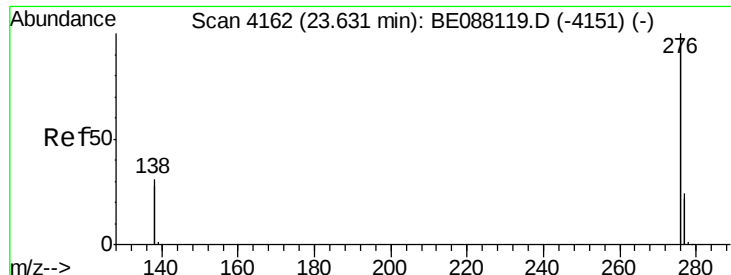
Delta R.T. -0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.7	34.1
229	20.4	15.8	23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.27 ng m

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088156.D

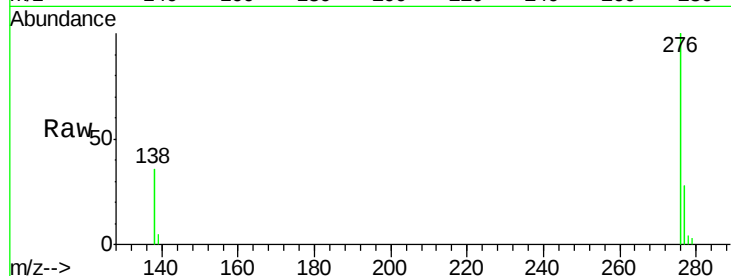
Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

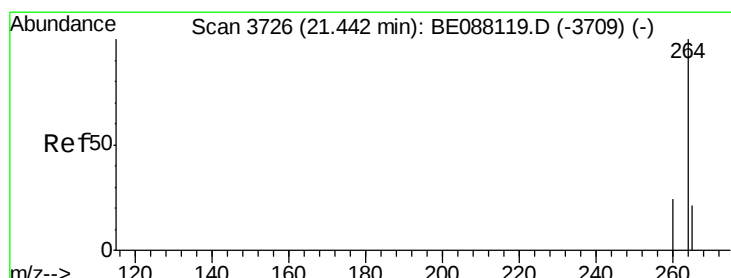
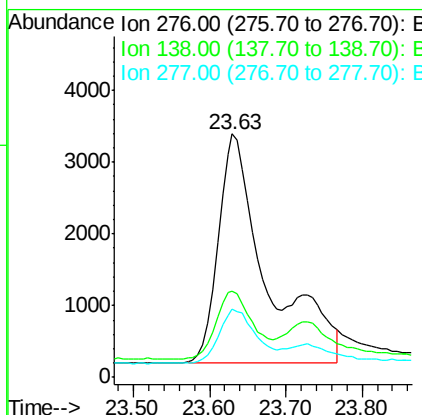
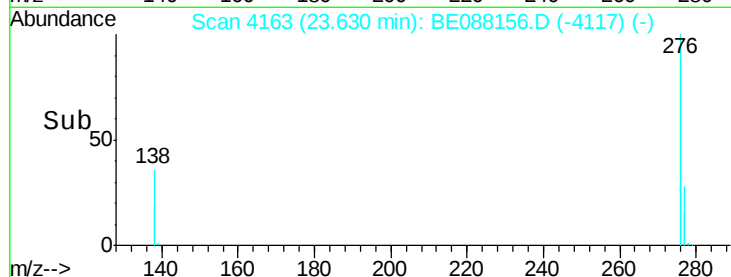
YS19-SW11-1014



Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.1	18.5	27.7
277	17.8	14.6	21.8

Manual Integrations
APPROVED

mohammad
10/22/2014 1:55:22 PM



#22

Perylene-d12

Concen: 5.00 ng

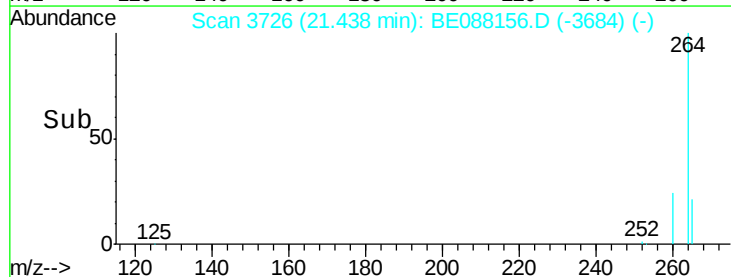
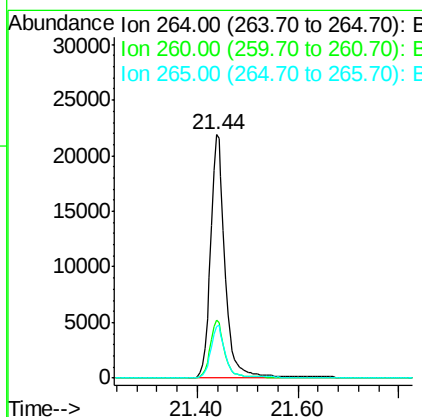
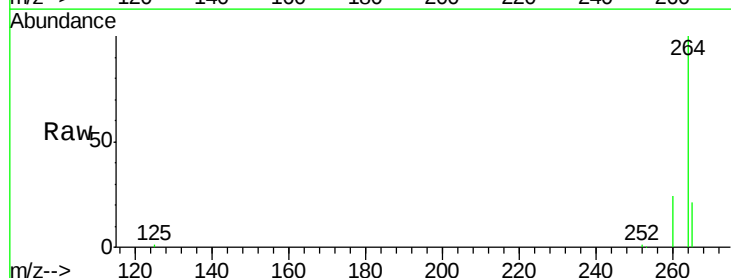
RT: 21.44 min Scan# 3726

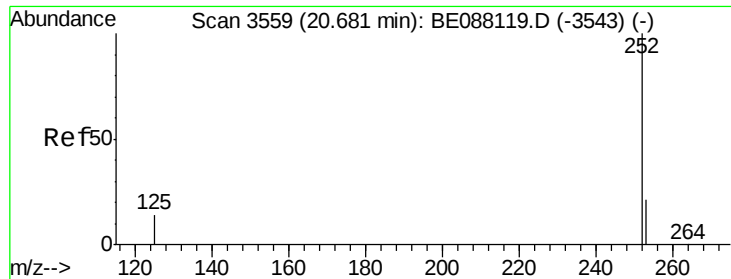
Delta R.T. -0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.4
265	21.3	17.2	25.8





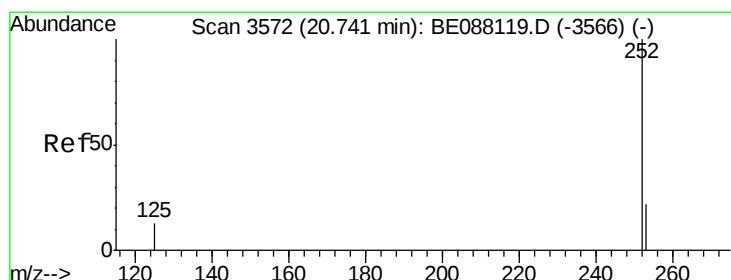
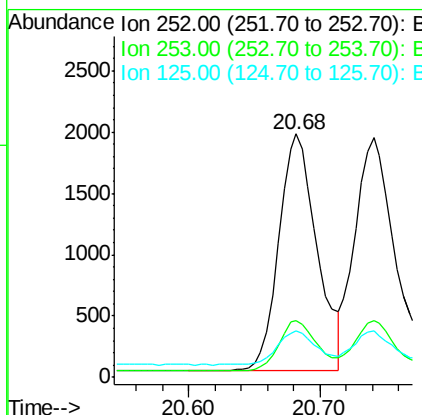
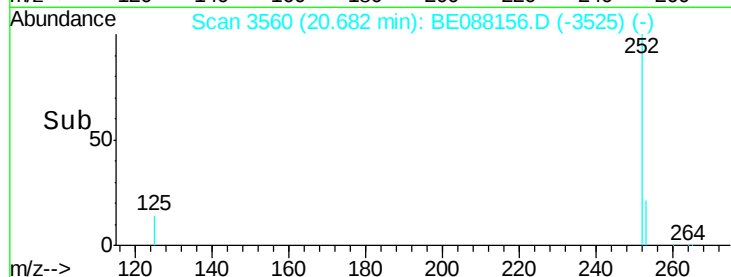
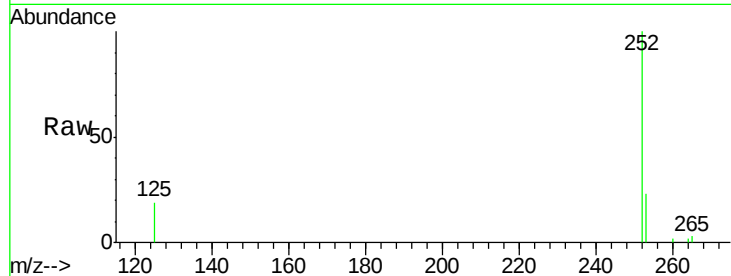
#23
Benzo(b)fluoranthene
Concen: 0.38 ng
RT: 20.68 min Scan# 3560
Delta R.T. 0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.0
125	19.1	11.8	17.8

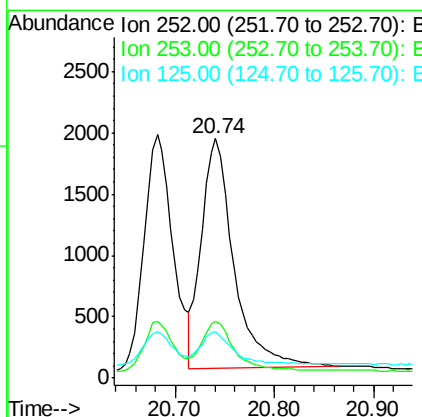
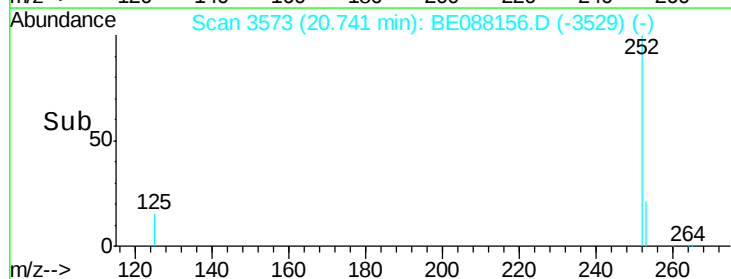
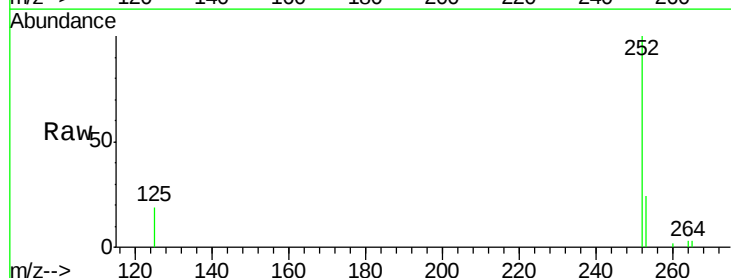
Manual Integrations
APPROVED

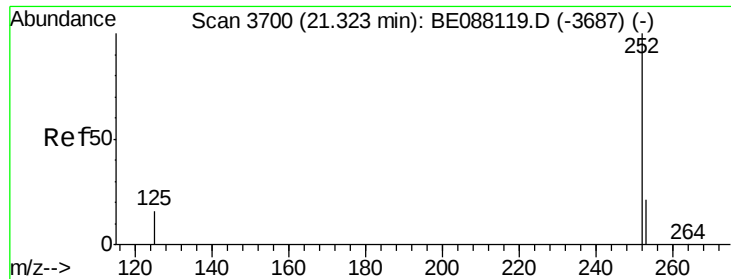
mohammad
10/22/2014 1:55:22 PM



#24
Benzo(k)fluoranthene
Concen: 0.39 ng
RT: 20.74 min Scan# 3573
Delta R.T. 0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.6	26.4
125	19.5	11.5	17.3





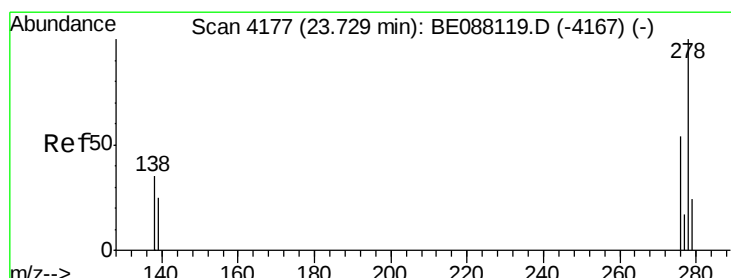
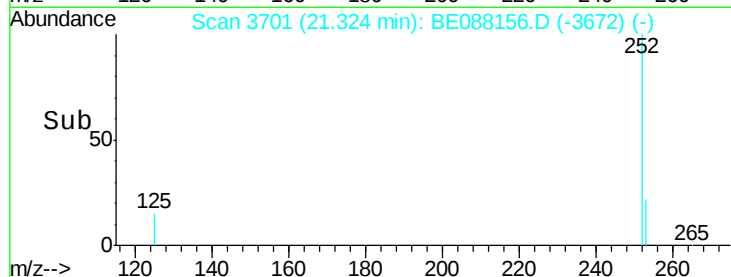
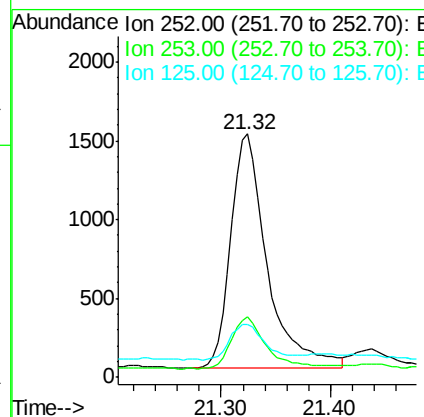
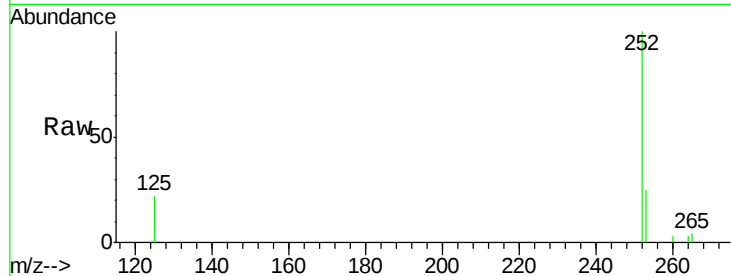
#25
Benzo(a)pyrene
Concen: 0.36 ng
RT: 21.32 min Scan# 3701
Delta R.T. 0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.5	26.3
125	21.8	13.0	19.6

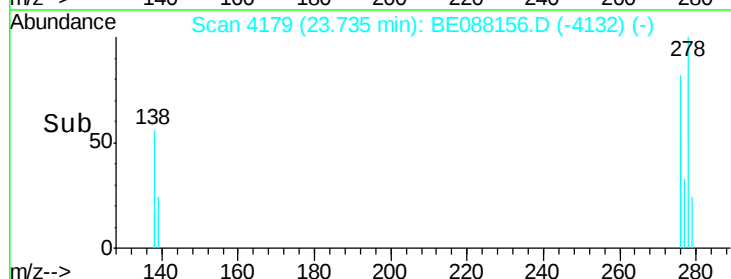
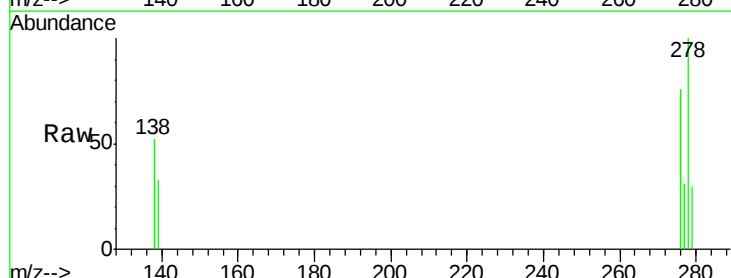
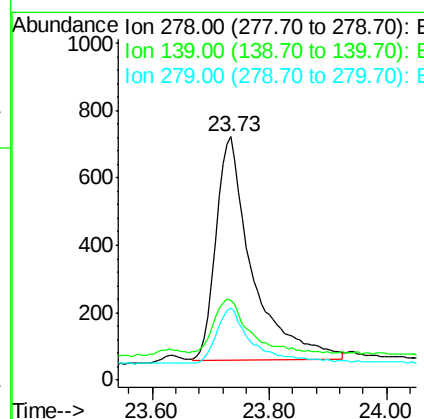
Manual Integrations
APPROVED

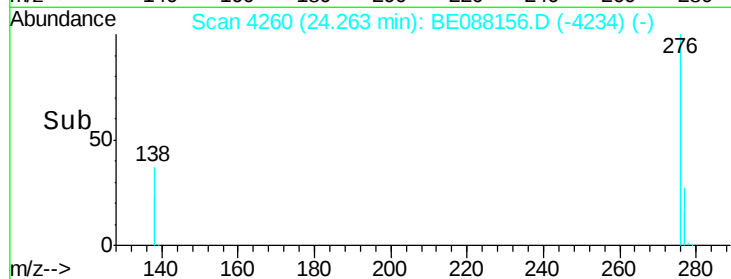
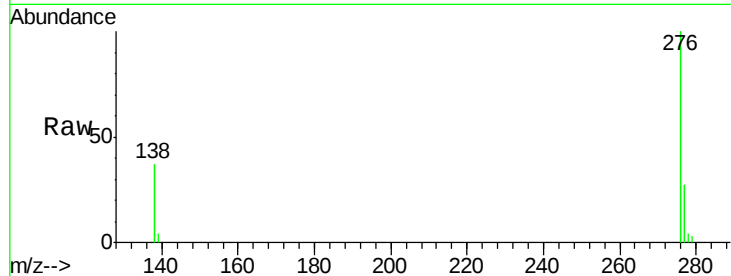
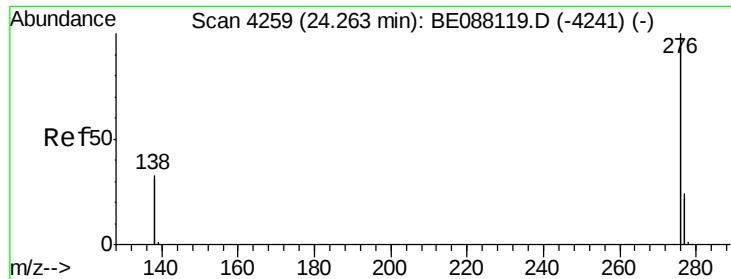
mohammad
10/22/2014 1:55:22 PM



#26
Dibenzo(a,h)anthracene
Concen: 0.31 ng
RT: 23.73 min Scan# 4179
Delta R.T. 0.01 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.9	20.9	31.3
279	29.6	19.8	29.8





#27
 Benzo(g,h,i)perylene
 Concen: 0.35 ng
 RT: 24.26 min Scan# 4260
 Delta R.T. -0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	19.2	28.8
138	36.6	26.6	40.0

Manual Integrations
 APPROVED

mohammad
 10/22/2014 1:55:22 PM

