

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092106.D
 Acq On : 2 Aug 2016 11:33
 Operator : UM/SJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Sohil
 8/3/2016 8:38:59 AM

Quant Time: Aug 02 16:54:52 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 13:43:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	11407	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	51511	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	29453	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	67071	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	85853	5.00	ng	0.00
28) Perylene-d12	24.14	264	88961	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.69	112	381	0.10	ng	0.00
5) Phenol-d6	0.00	99	0d	0.00	ng	
7) Nitrobenzene-d5	9.34	82	521	0.12	ng	-0.01
11) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
12) 2-Fluorobiphenyl	13.46	172	1150	0.10	ng	0.00
24) Terphenyl-d14	0.00	244	0d	0.00	ng	

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.43	88	190	0.12	ng	# 77
3) n-Nitrosodimethylamine	3.79	42	346	0.17	ng	# 77
8) Naphthalene	11.03	128	1620	0.14	ng	# 93
9) 2-Methylnaphthalene	12.65	142	1045	0.13	ng	# 93
13) Acenaphthylene	14.54	152	6169	0.09	ng	# 80
14) Acenaphthene	14.90	154	1007	0.11	ng	# 98
15) Fluorene	15.89	166	1419	0.10	ng	# 96
17) Hexachlorobenzene	16.89	284	397	0.18	ng	# 60
19) Phenanthrene	17.60	178	2677	0.15	ng	96
20) Anthracene	17.70	178	2098	0.16	ng	99
21) Fluoranthene	19.63	202	10161	0.19	ng	97
23) Pvrene	19.99	202	10961	0.11	ng	97
25) Benzo(a)anthracene	21.72	228	12182	0.52	ng	94
26) Chrysene	21.77	228	12582m	0.62	ng	
27) Indeno(1,2,3-cd)pyrene	26.65	276	12699	0.14	ng	100
29) Benzo(b)fluoranthene	23.40	252	3191	0.13	ng	# 89
30) Benzo(k)fluoranthene	23.46	252	3366	0.13	ng	# 89
31) Benzo(a)pyrene	24.02	252	2576	0.11	ng	# 83
32) Dibenzo(a,h)anthracene	26.67	278	2504	0.12	ng	# 90
33) Benzo(a,h,i)perylene	27.42	276	11135	0.12	ng	93

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

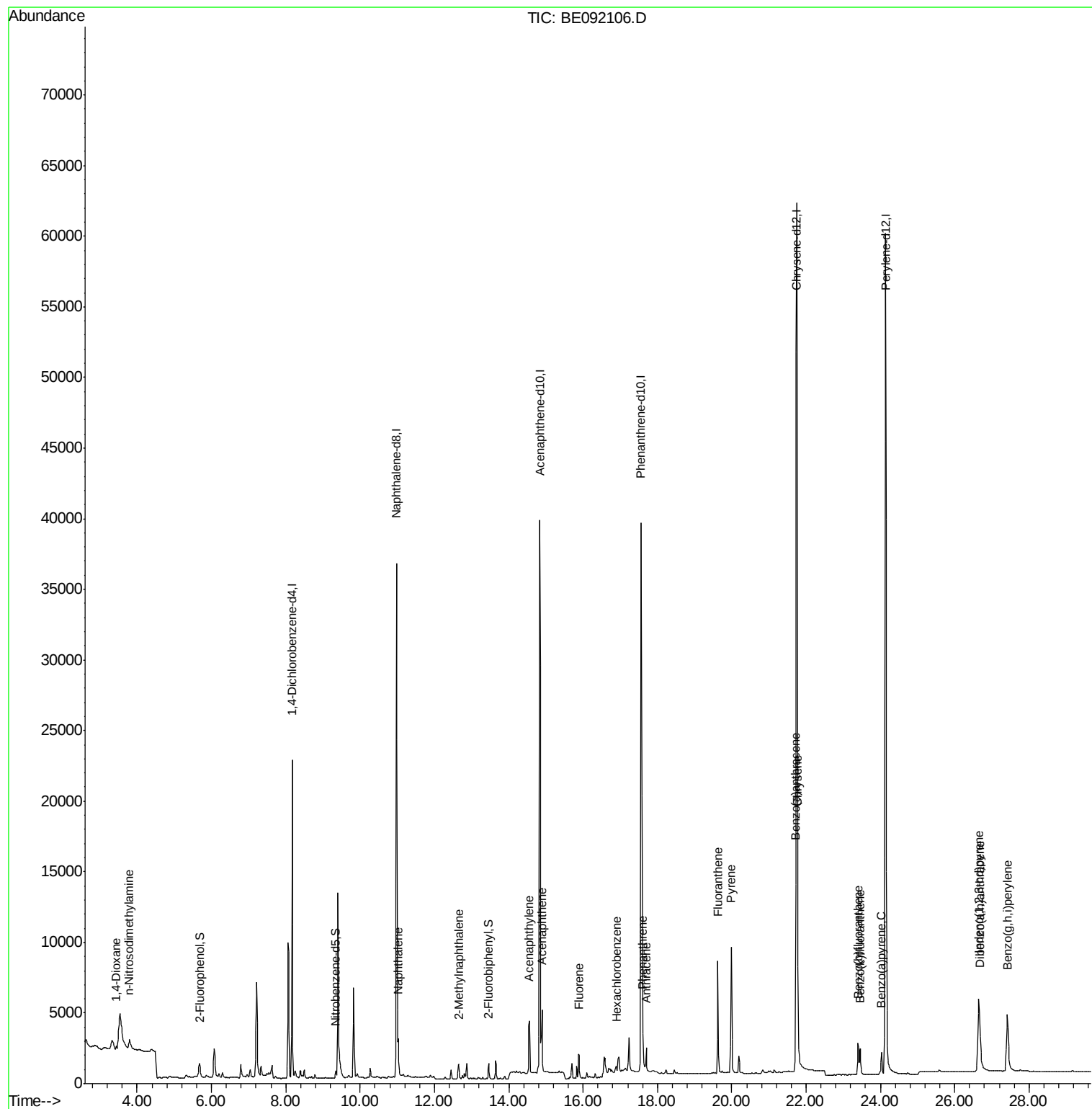
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
Data File : BE092106.D
Acq On : 2 Aug 2016 11:33
Operator : UM/SJ
Sample : SSTDIC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleID :
SSTDIC0.1

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM

Quant Time: Aug 02 16:54:52 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 13:43:25 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

ClientSampled :

SSTDIC0.1

Tot Ion:152 Resp: 11407

Ion Ratio Lower Upper

152 100

150 156.4 106.0 159.0

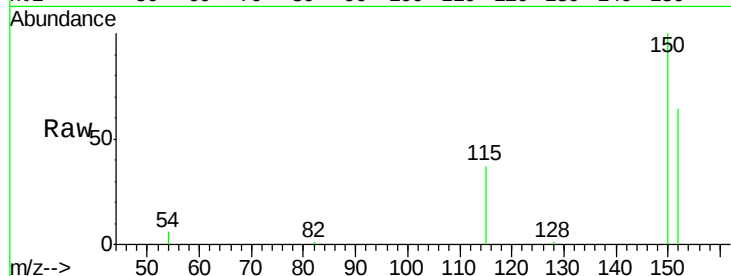
115 57.4 36.9 55.3#

Manual Integrations

APPROVED

Sohil

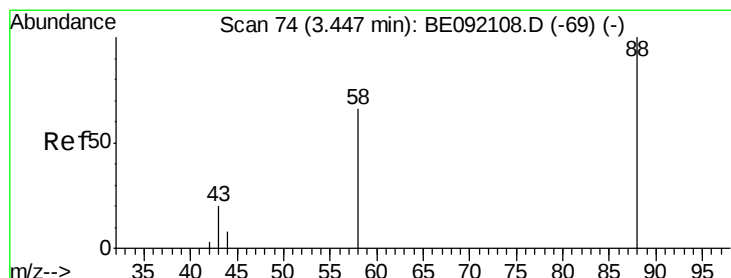
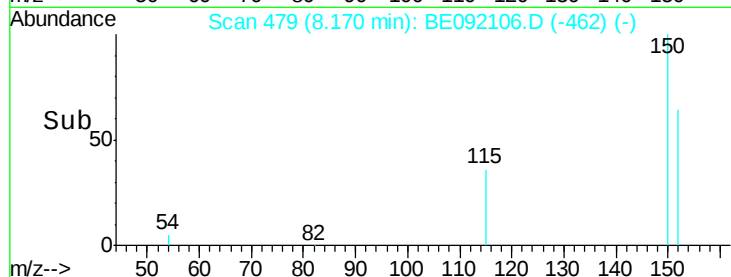
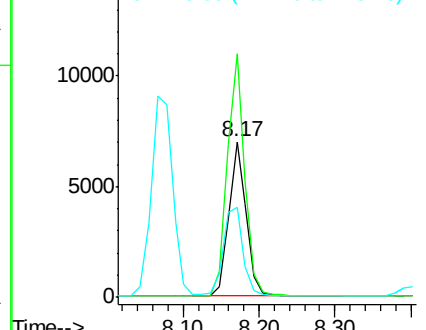
8/3/2016 8:38:59 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 3.43 min Scan# 73

Delta R.T. -0.01 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

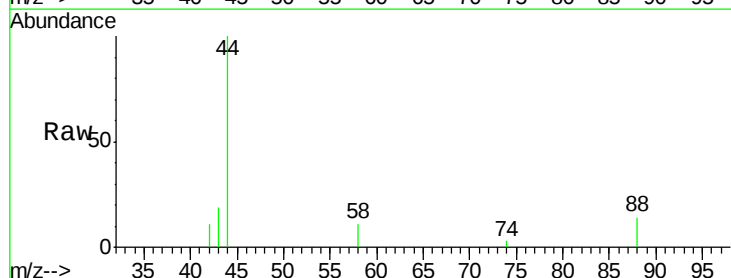
Tgt Ion: 88 Resp: 190

Ion Ratio Lower Upper

88 100

58 71.6 62.1 93.1

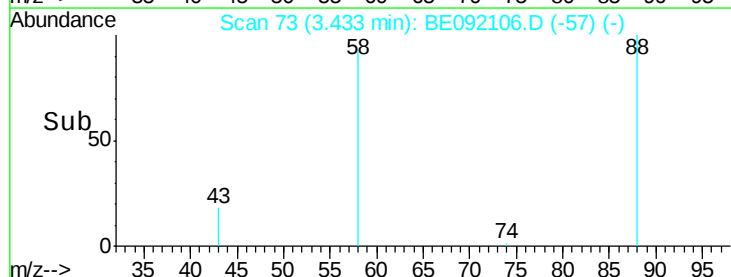
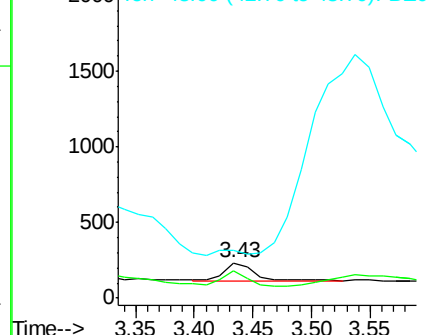
43 0.0 27.2 40.8#

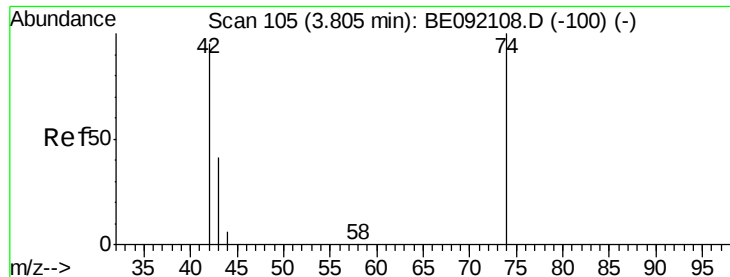


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.79 min Scan# 104

Delta R.T. -0.01 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

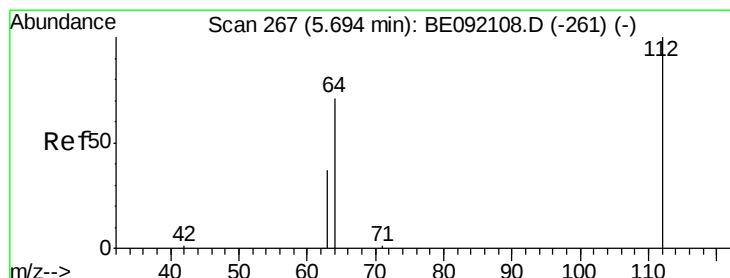
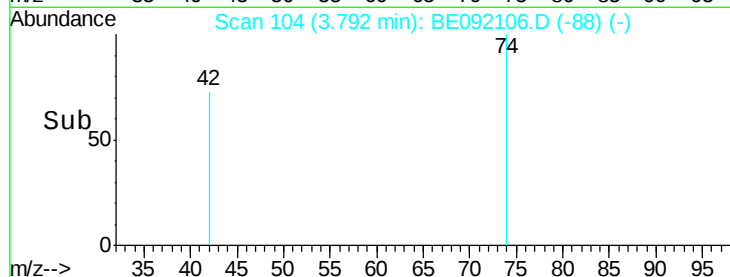
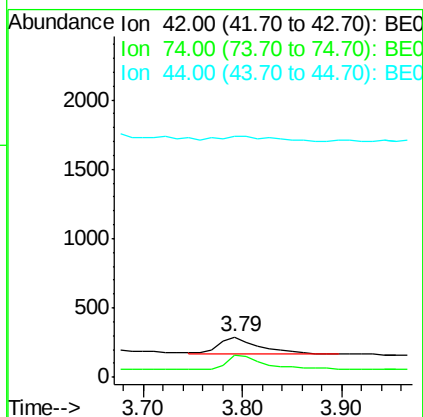
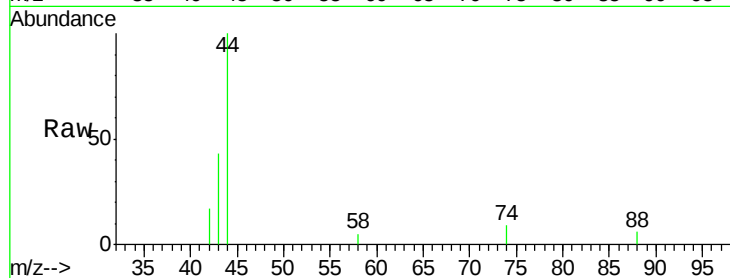
ClientSampleId :

SSTDICC0.1

Tot Ion:	42	Resp:	346
Ion	Ratio	Lower	Upper
42	100		
74	81.8	82.8	124.2#
44	25.4	9.0	13.4#

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#4

2-Fluorophenol

Concen: 0.10 ng

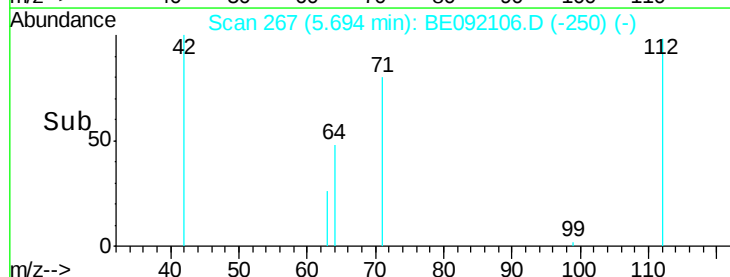
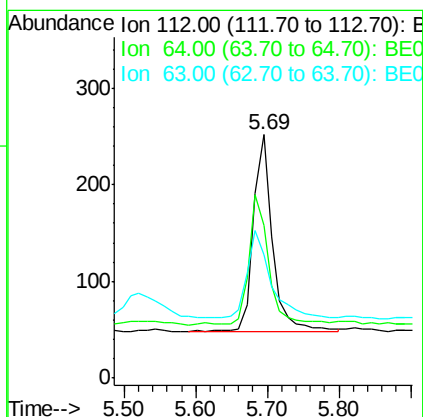
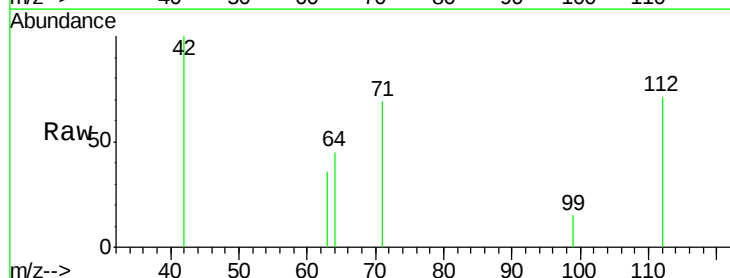
RT: 5.69 min Scan# 267

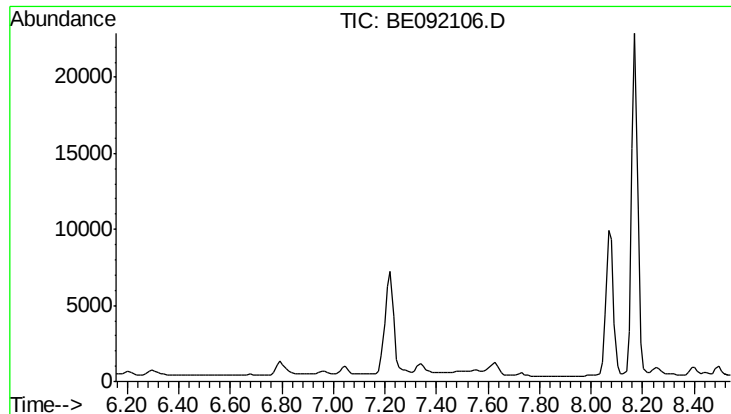
Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:	112	Resp:	381
Ion	Ratio	Lower	Upper
112	100		
64	65.9	55.9	83.9
63	52.8	31.1	46.7#





#5

Phenol-d6

Concen: 0.00 ng

Expected RT: 7.35 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tot Ion: 99

Sig Exp Ratio

99 100

42 28.0

71 36.1

Instrument :

BNA_E

ClientSampleId :

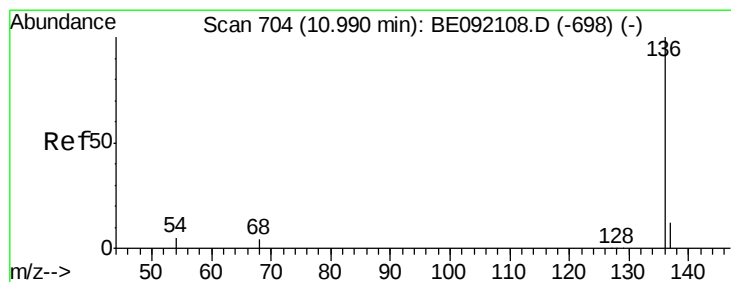
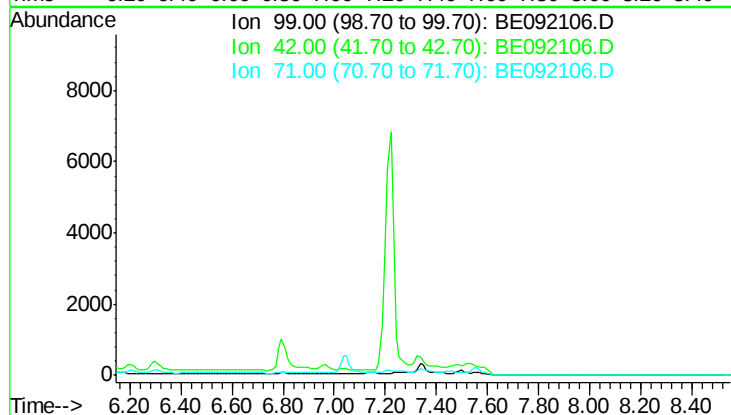
SSTDICC0.1

Manual Integrations

APPROVED

Sohil

8/3/2016 8:38:59 AM



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:136 Resp: 51511

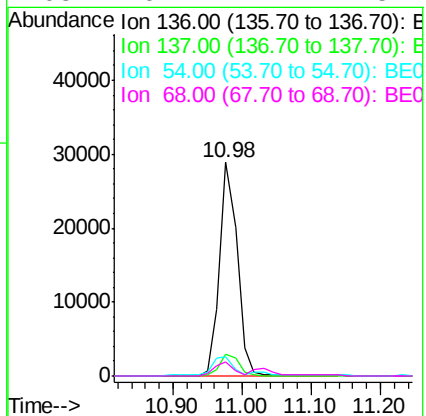
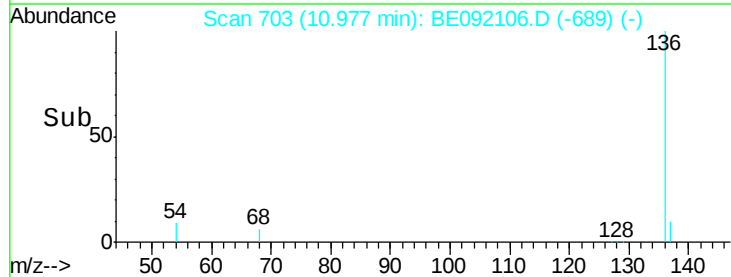
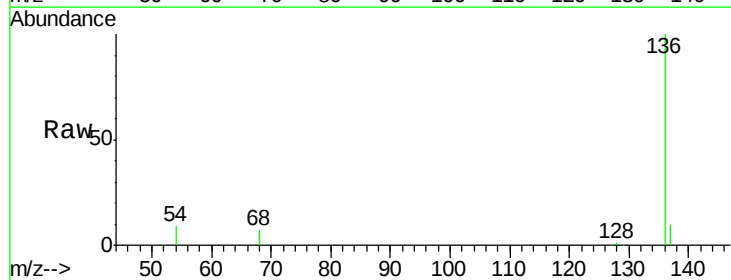
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 9.3 2.7 4.1#

68 6.7 2.2 3.4#





#7

Nitrobenzene-d5

Concen: 0.12 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

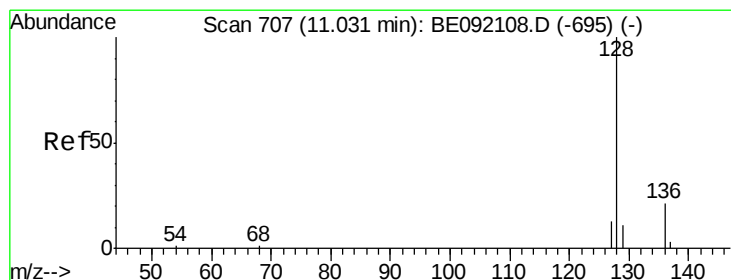
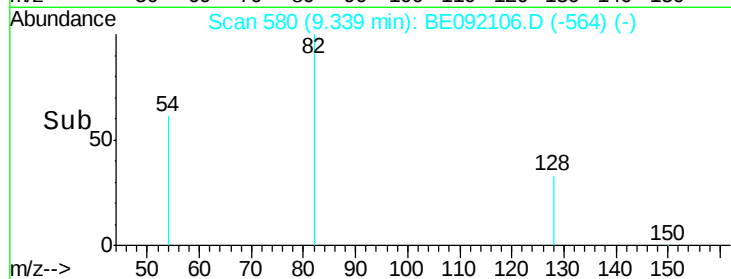
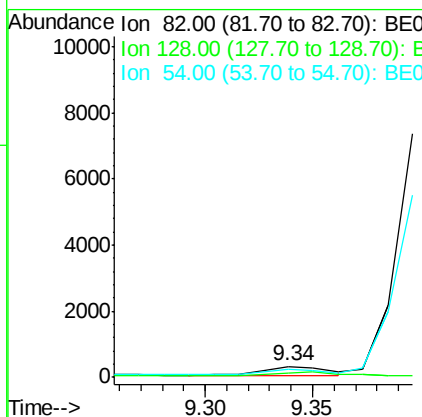
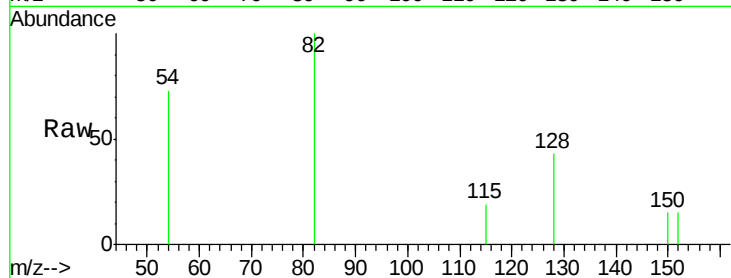
ClientSampleId :

SSTDIC0.1

Tot Ion:	82	Resp:	521
Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.0	49.4
54	72.7	42.6	63.8#

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#8

Naphthalene

Concen: 0.14 ng

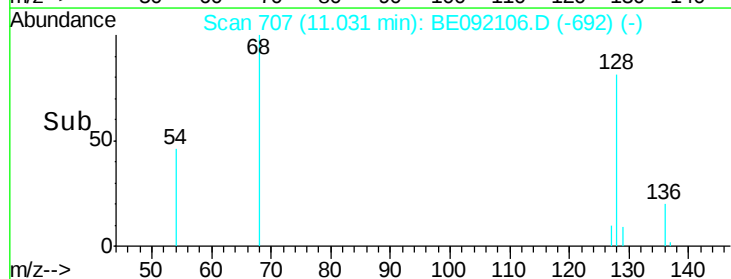
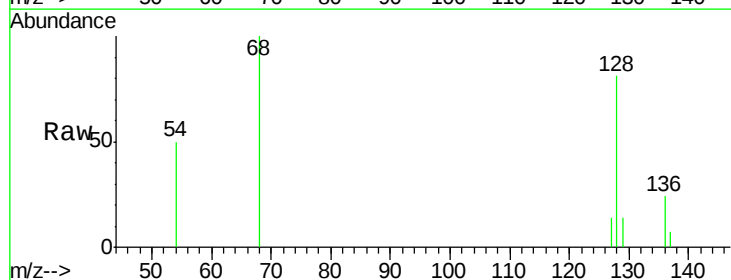
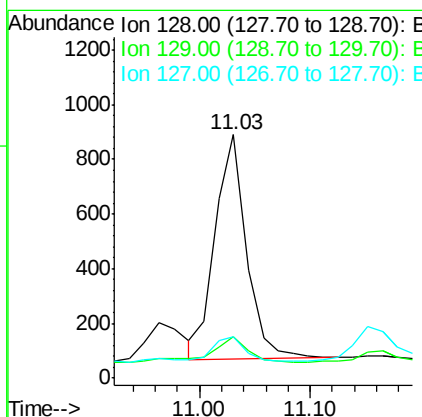
RT: 11.03 min Scan# 707

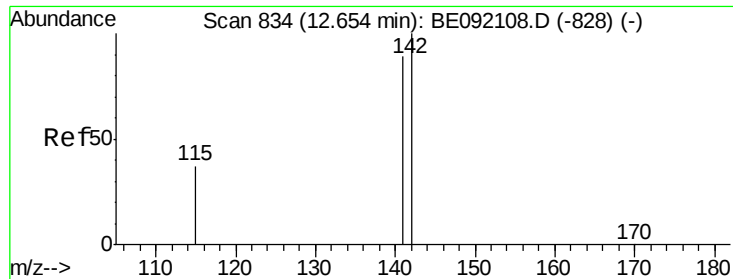
Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:	128	Resp:	1620
Ion	Ratio	Lower	Upper
128	100		
129	16.9	11.1	16.7#
127	16.9	11.3	16.9#





#9

2-Methylnaphthalene

Concen: 0.13 ng

RT: 12.65 min Scan# 833

Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

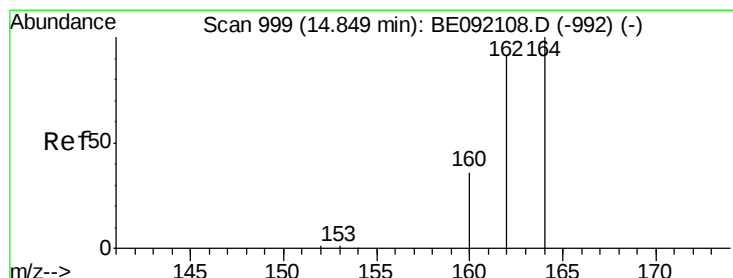
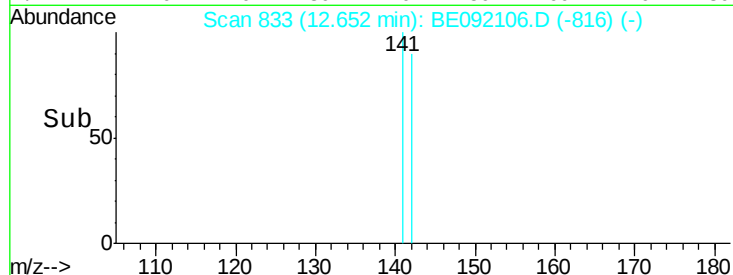
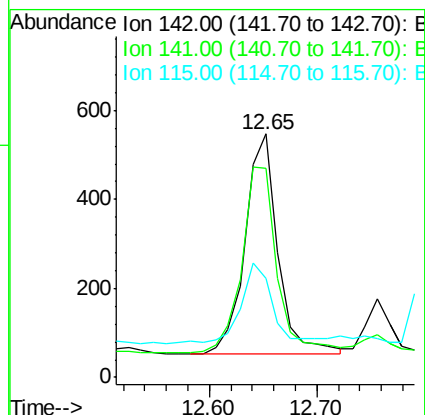
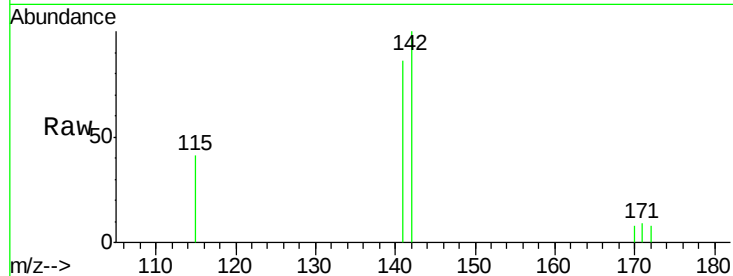
ClientSampleId :

SSTDIC0.1

Tot Ion:	142	Resp:	1045
Ion Ratio	Lower	Upper	
142	100		
141	85.9	65.1	97.7
115	40.6	27.0	40.4

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#10

Acenaphthene-d10

Concen: 5.00 ng

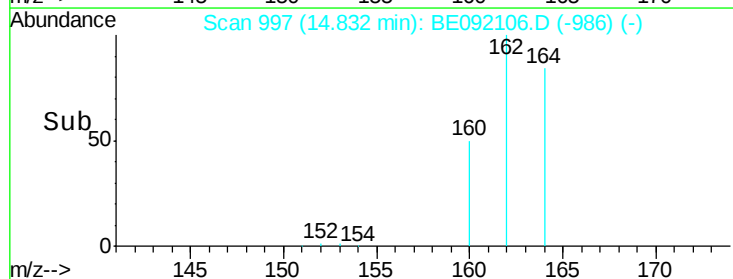
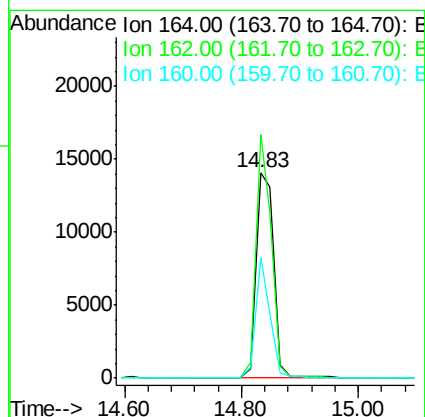
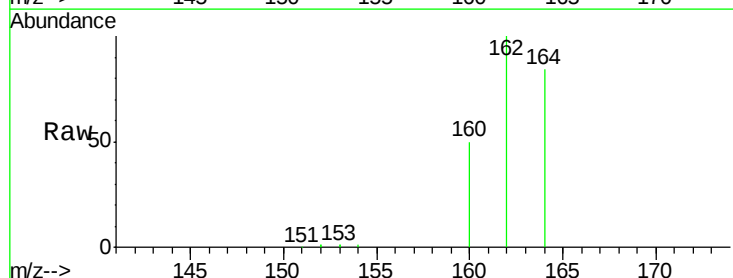
RT: 14.83 min Scan# 997

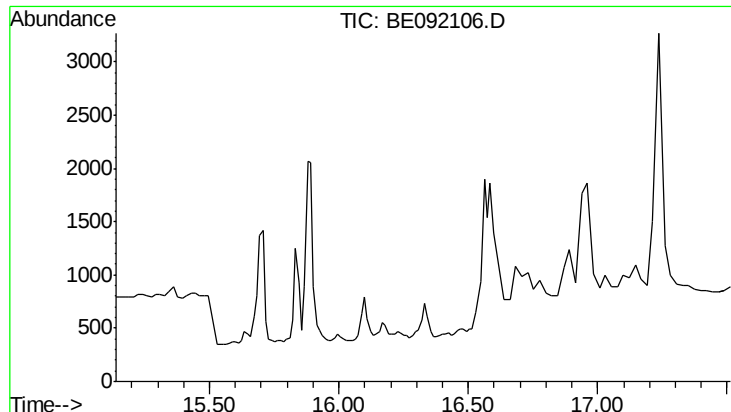
Delta R.T. -0.02 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:	164	Resp:	29453
Ion Ratio	Lower	Upper	
164	100		
162	118.6	69.5	104.3
160	59.0	27.6	41.4





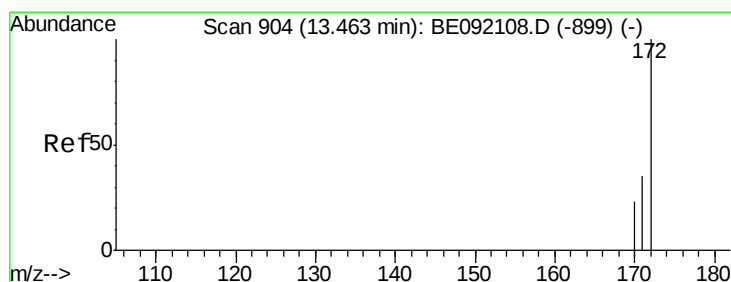
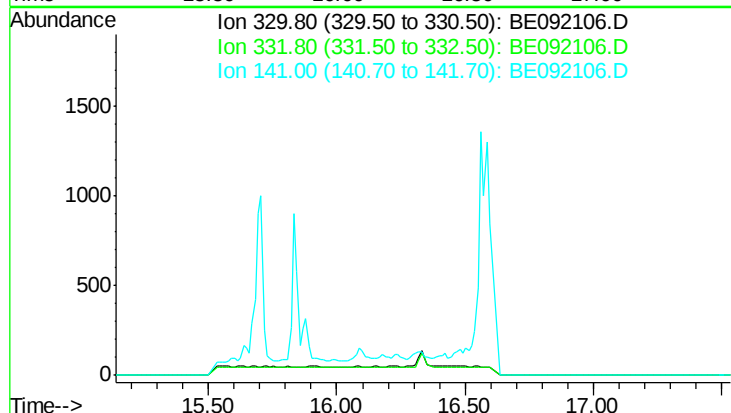
#11
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.33 min
 Lab File: BE092106.D
 Acq: 2 Aug 2016 11:33

Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 92.8
 141 174.8

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

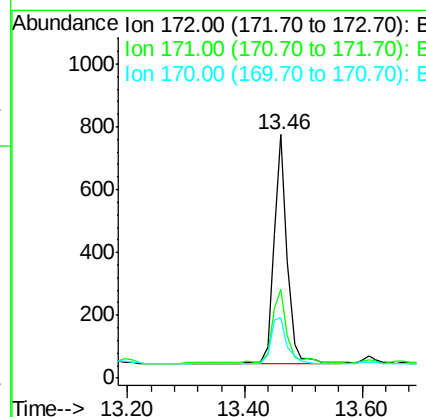
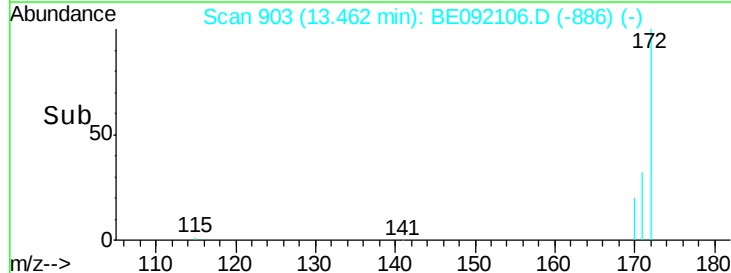
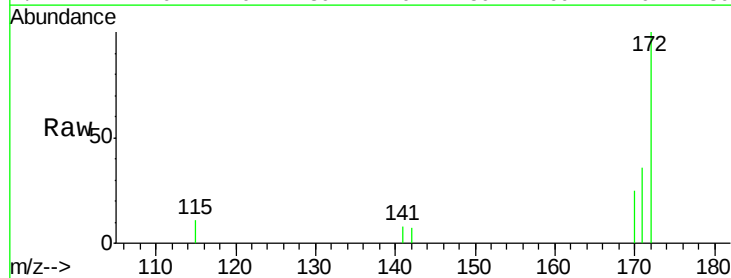
Manual Integrations
 APPROVED

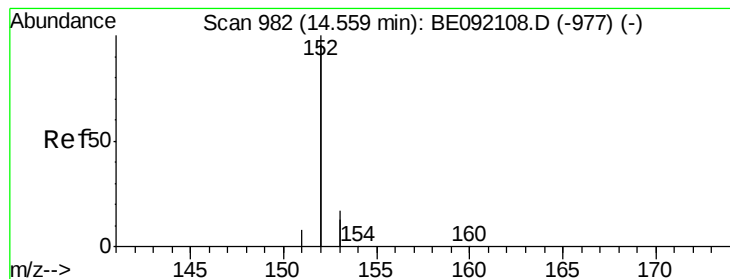
Sohil
 8/3/2016 8:38:59 AM



#12
 2-Fluorobiphenyl
 Concen: 0.10 ng
 RT: 13.46 min Scan# 903
 Delta R.T. -0.00 min
 Lab File: BE092106.D
 Acq: 2 Aug 2016 11:33

Tgt Ion: 172 Resp: 1150
 Ion Ratio Lower Upper
 172 100
 171 36.3 30.3 45.5
 170 25.0 21.6 32.4





#13

Acenaphthylene

Concen: 0.09 ng

RT: 14.54 min Scan# 980

Delta R.T. -0.02 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

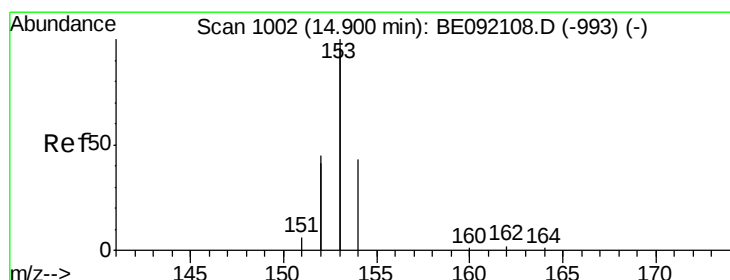
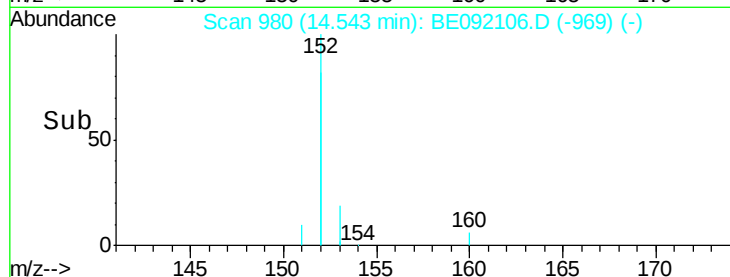
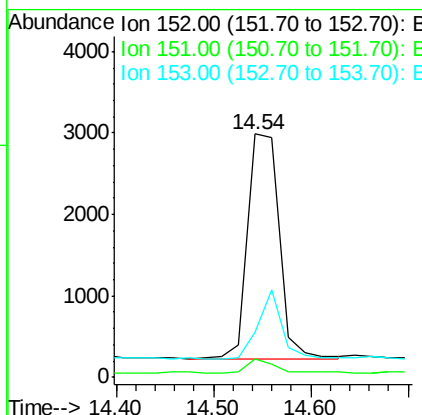
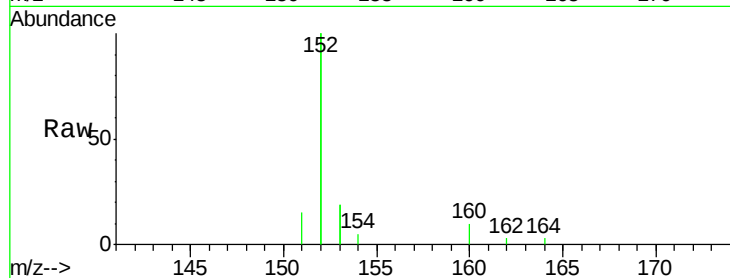
ClientSampleId :

SSTDIC0.1

Tot Ion:	152	Resp:	6169
Ion Ratio	Lower	Upper	
152	100		
151	5.2	4.0	6.0
153	22.9	9.6	14.4#

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#14

Acenaphthene

Concen: 0.11 ng

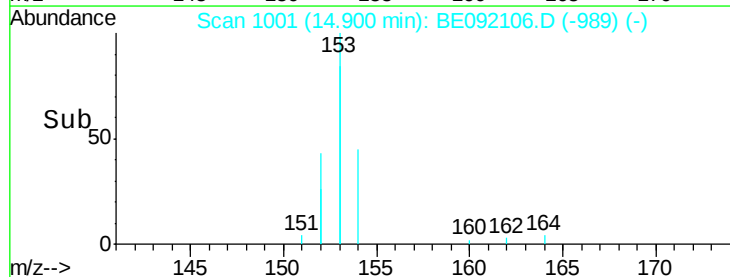
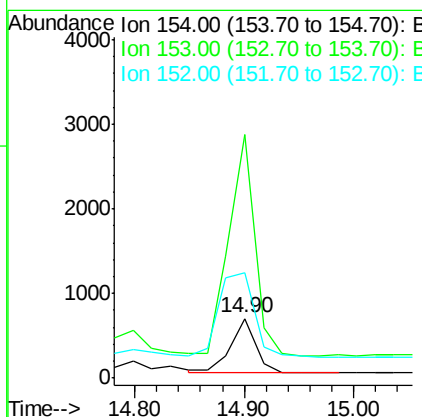
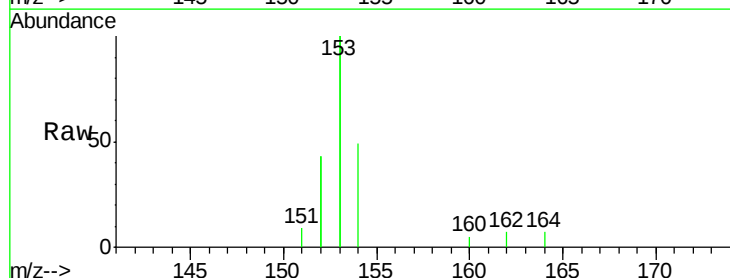
RT: 14.90 min Scan# 1001

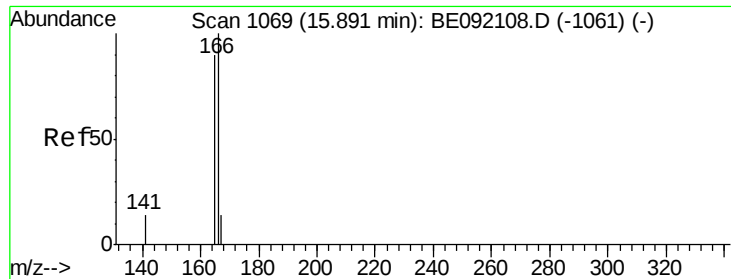
Delta R.T. 0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:	154	Resp:	1007
Ion Ratio	Lower	Upper	
154	100		
153	427.5	345.1	517.7
152	225.7	0.0	0.0#





#15

Fluorene

Concen: 0.10 ng

RT: 15.89 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

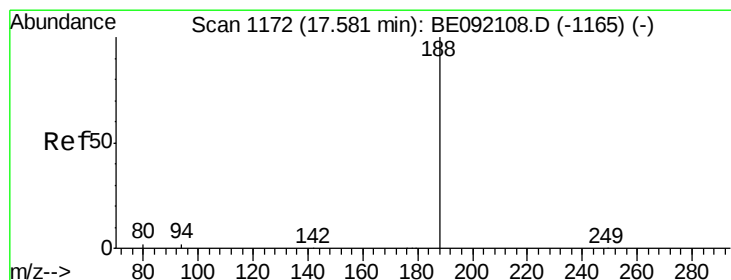
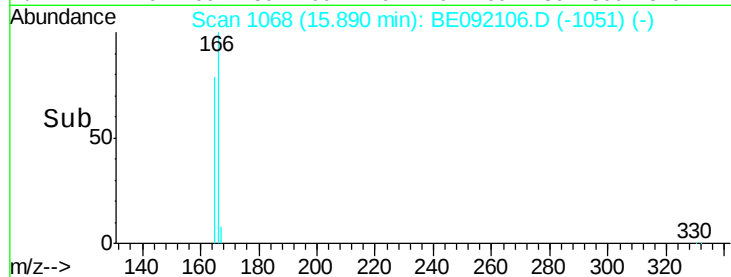
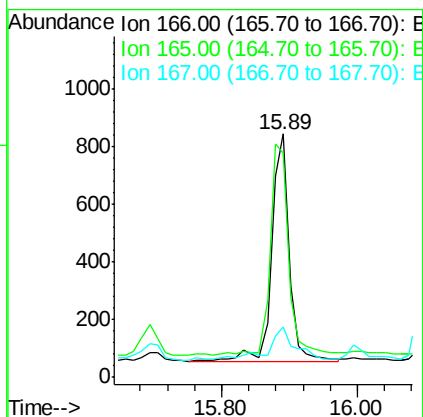
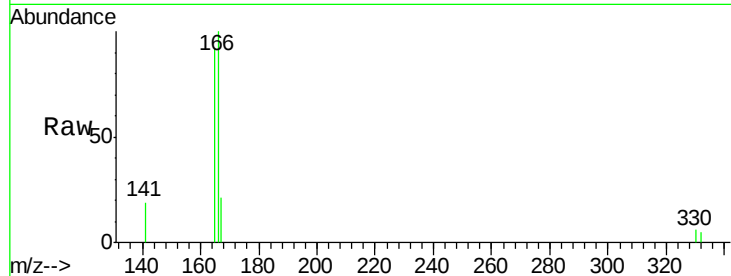
ClientSampleId :

SSTDICC0.1

Tot Ion:166	Resp:	1419
Ion Ratio	Lower	Upper
166	100	
165	99.4	78.6 118.0
167	23.1	11.1 16.7#

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#16

Phenanthrene-d10

Concen: 5.00 ng

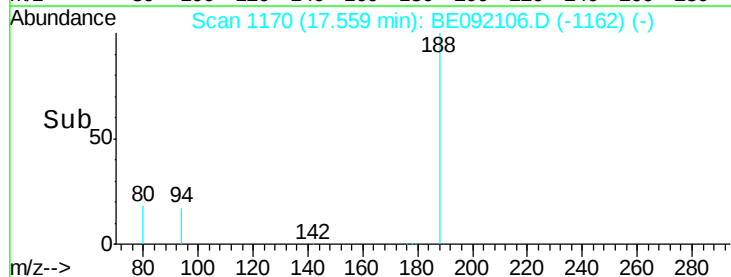
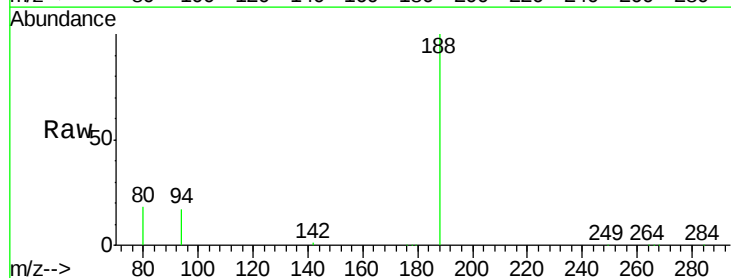
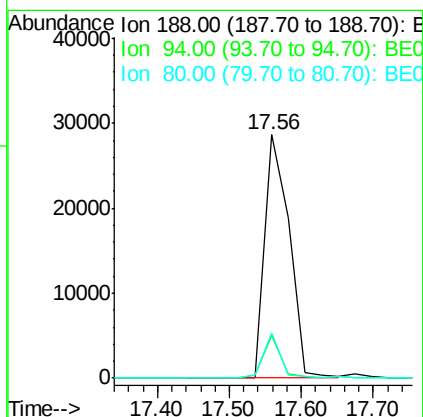
RT: 17.56 min Scan# 1170

Delta R.T. -0.02 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:188	Resp:	67071
Ion Ratio	Lower	Upper
188	100	
94	17.5	3.9 5.9#
80	18.4	3.4 5.0#





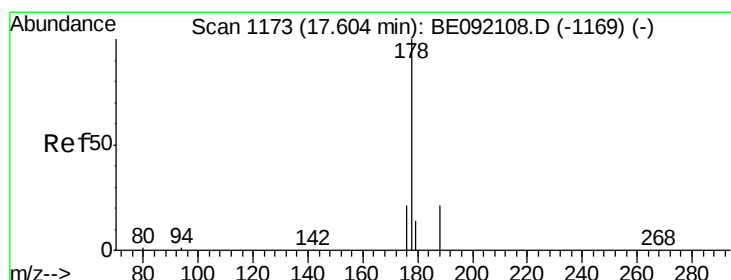
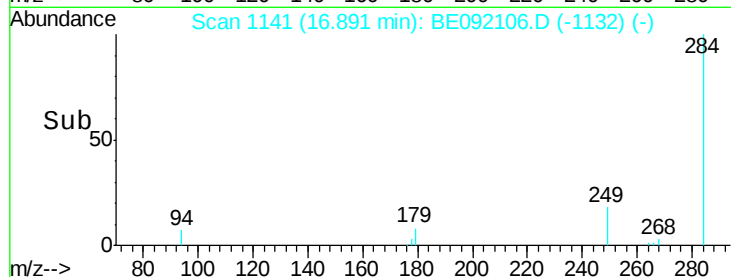
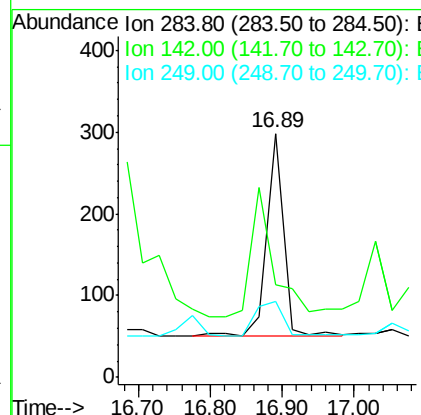
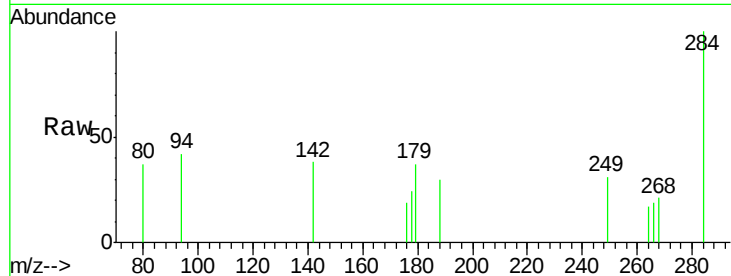
#17
Hexachlorobenzene
Concen: 0.18 ng
RT: 16.89 min Scan# 1141
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tot Ion	Ratio	Resp	Lower	Upper
284	100	397		
142	0.0	33.3	49.9#	
249	28.2	25.4	38.0	

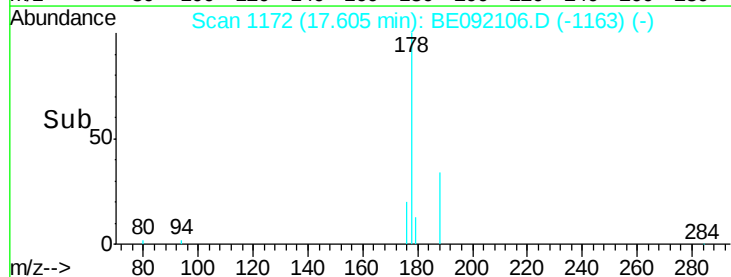
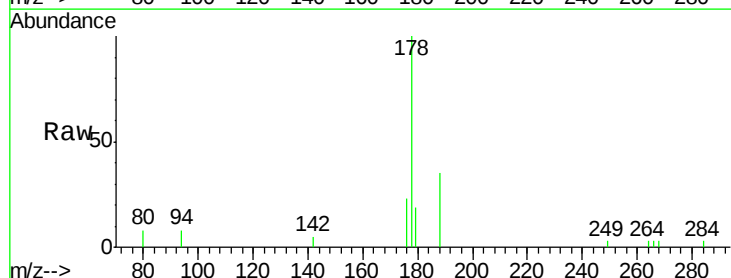
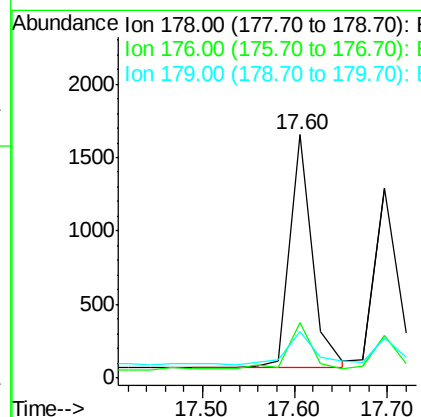
Manual Integrations
APPROVED

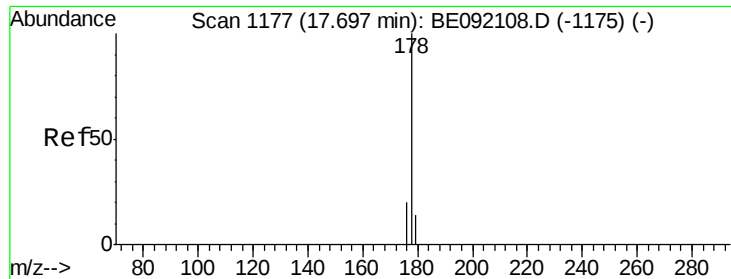
Sohil
8/3/2016 8:38:59 AM



#19
Phenanthrene
Concen: 0.15 ng
RT: 17.60 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2677		
176	20.5	15.4	23.0	
179	17.9	12.7	19.1	





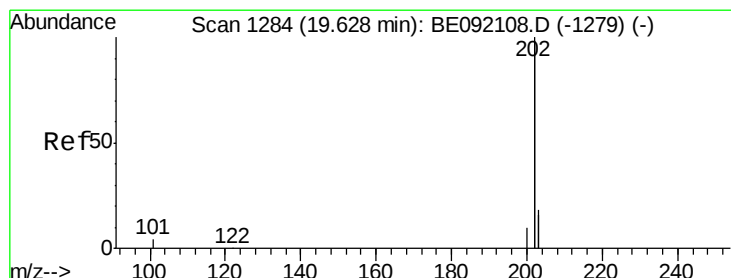
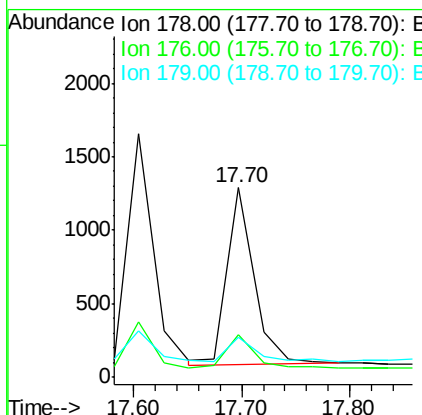
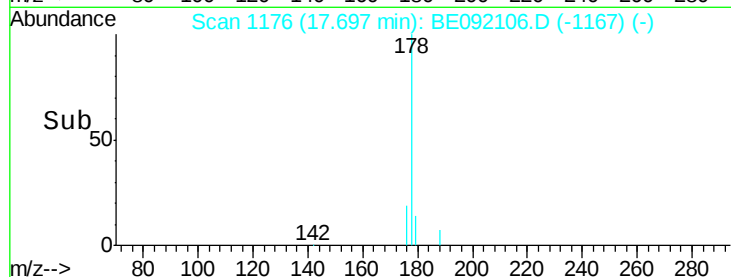
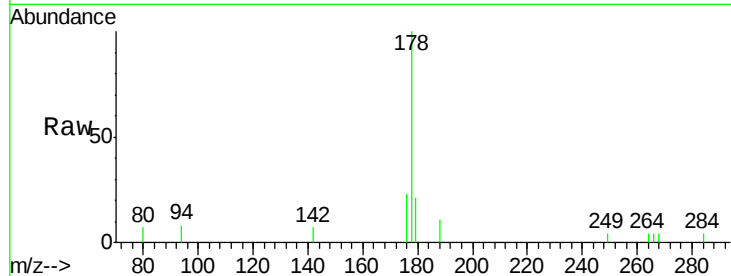
#20
 Anthracene
 Concen: 0.16 ng
 RT: 17.70 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: BE092106.D
 Acq: 2 Aug 2016 11:33

Instrument :
 BNA_E
 ClientSampled :
 SSTDICC0.1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.2	22.8
179	15.9	12.2	18.4

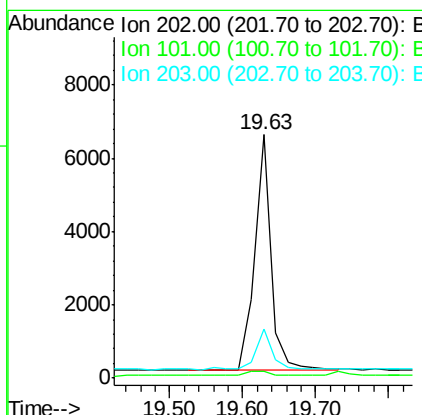
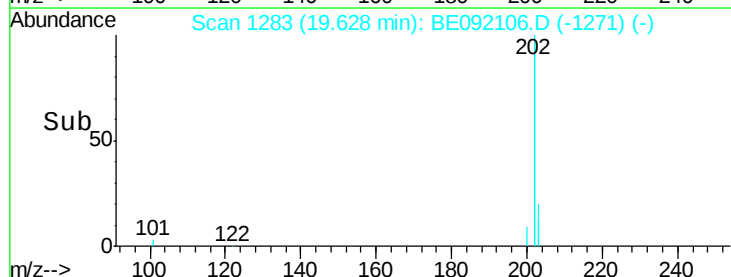
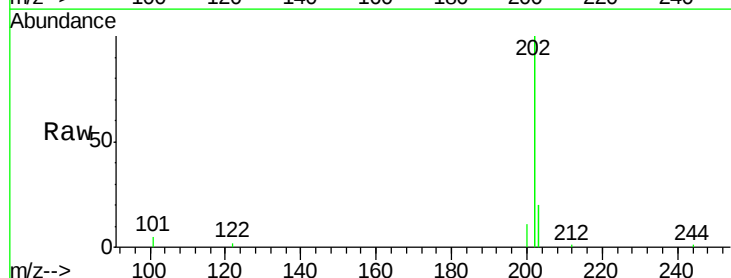
Manual Integrations
 APPROVED

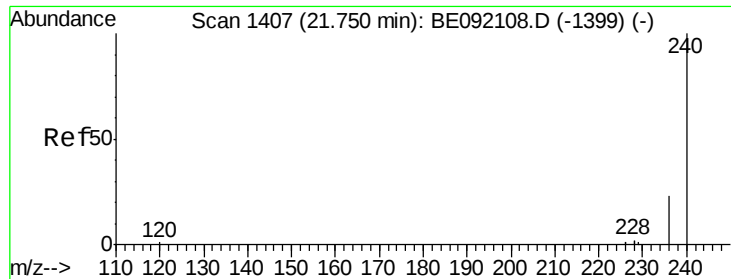
Sohil
 8/3/2016 8:38:59 AM



#21
 Fluoranthene
 Concen: 0.19 ng
 RT: 19.63 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: BE092106.D
 Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	2.7	2.2	3.2
203	17.8	13.0	19.4





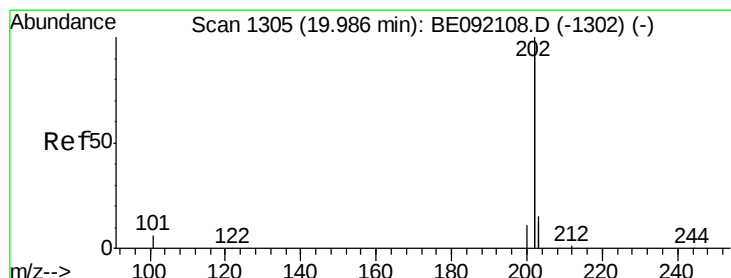
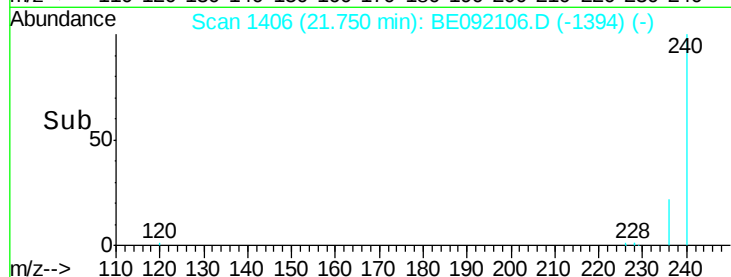
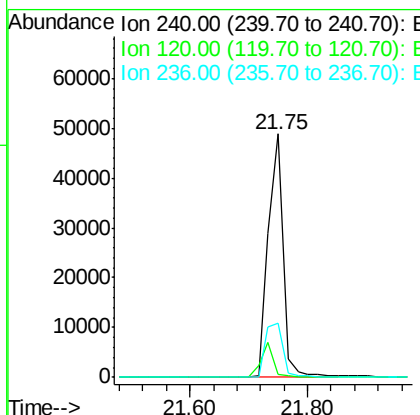
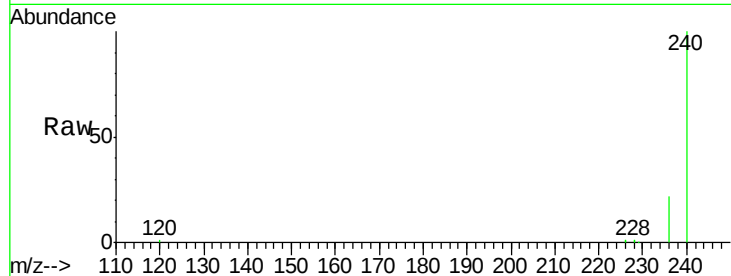
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1406
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tot Ion	Ratio	Lower	Upper
240	100		
120	1.4	0.6	1.0
236	22.1	18.2	27.4

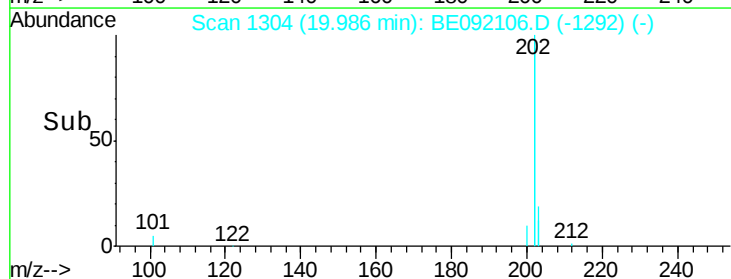
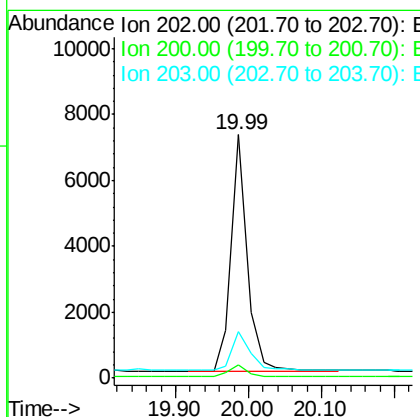
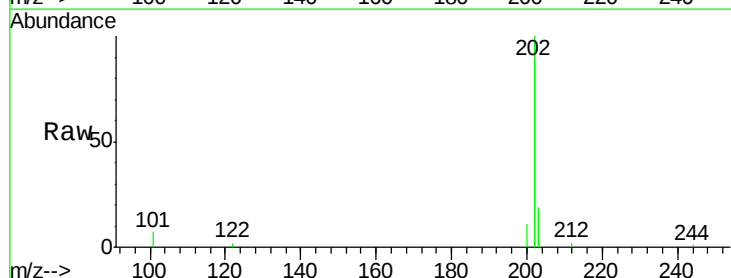
Manual Integrations
APPROVED

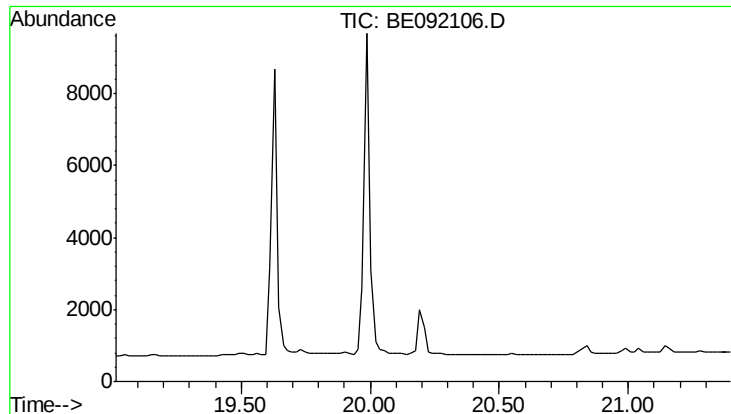
Sohil
8/3/2016 8:38:59 AM



#23
Pyrene
Concen: 0.11 ng
RT: 19.99 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.2	4.4	6.6
203	18.1	13.4	20.0





#24

Terphenyl-d14

Concen: 0.00 ng

Expected RT: 20.21 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tot Ion: 244

Sig Exp Ratio

244 100

212 11.4

122 13.7

Instrument :

BNA_E

ClientSampleId :

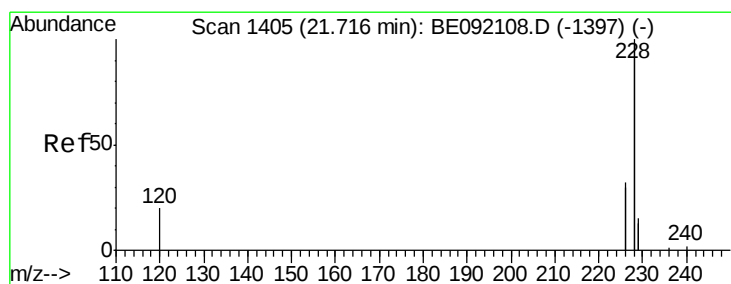
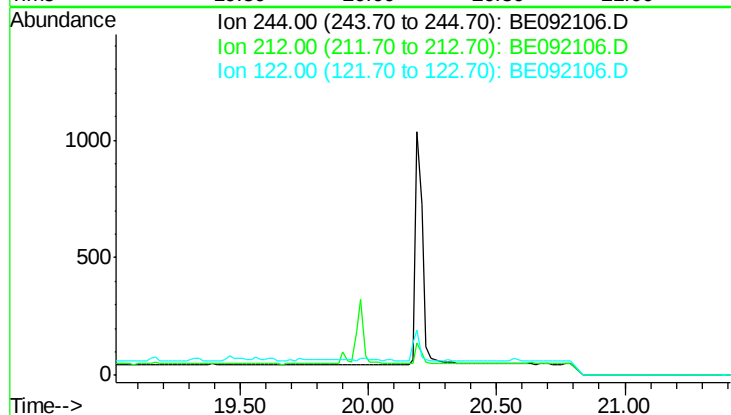
SSTDIC0.1

Manual Integrations

APPROVED

Sohil

8/3/2016 8:38:59 AM



#25

Benzo(a)anthracene

Concen: 0.52 ng

RT: 21.72 min Scan# 1404

Delta R.T. 0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

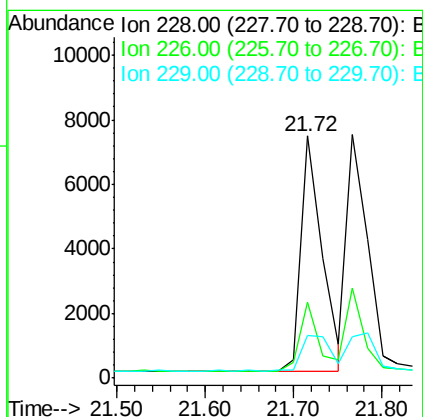
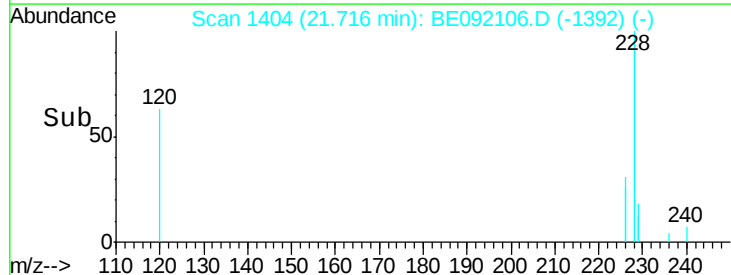
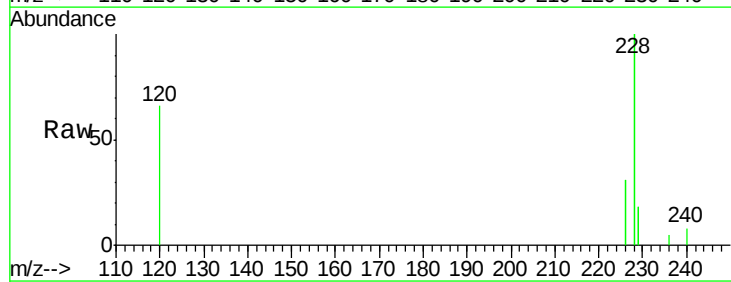
Tgt Ion: 228 Resp: 12182

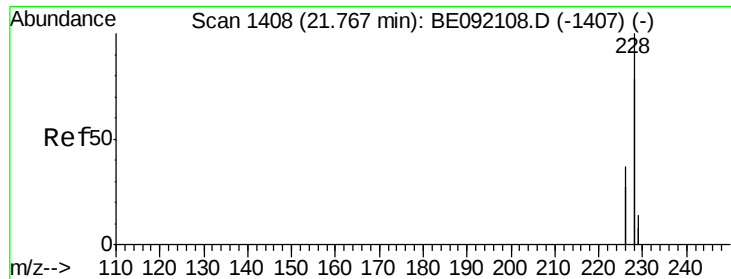
Ion Ratio Lower Upper

228 100

226 31.4 22.1 33.1

229 17.5 15.1 22.7





#26

Chrysene

Concen: 0.62 ng/mL

RT: 21.77 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Instrument :

BNA_E

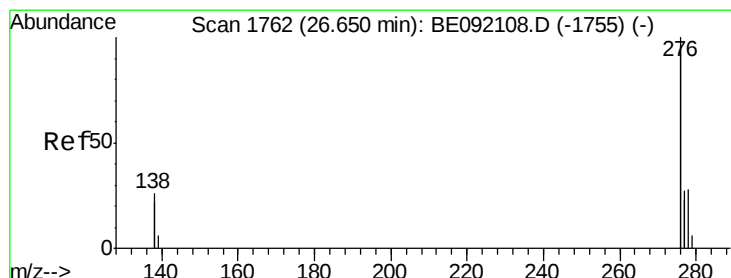
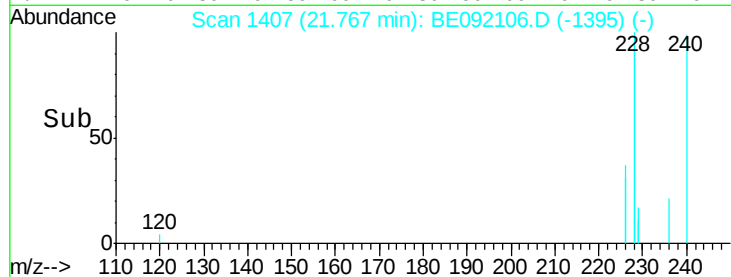
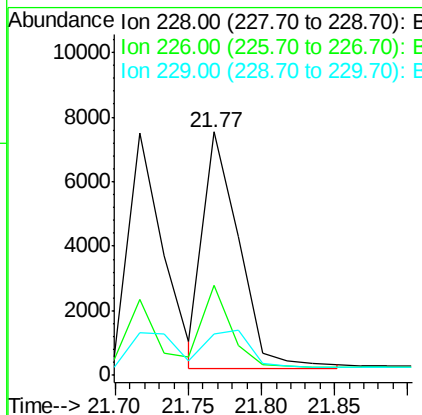
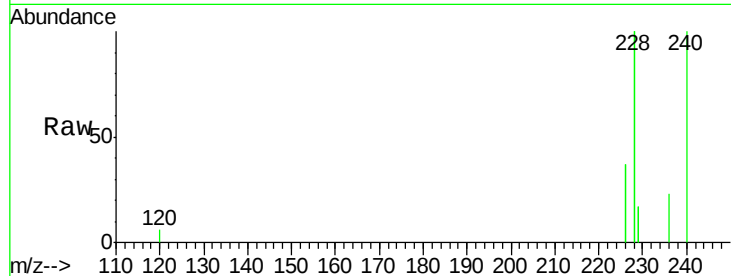
ClientSampleID :

SSTDIC0.1

Tot Ion:	228	Resp:	12582
Ion Ratio	Lower	Upper	
228	100		
226	37.0	22.3	33.5#
229	17.1	16.9	25.3

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng/mL

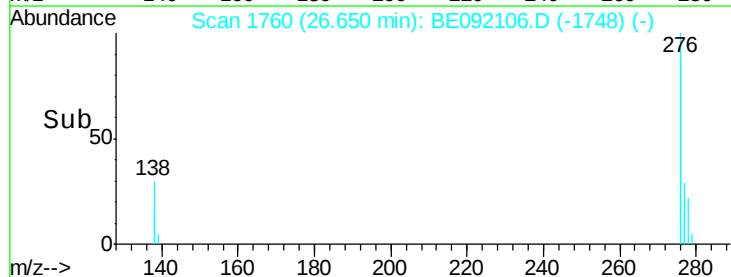
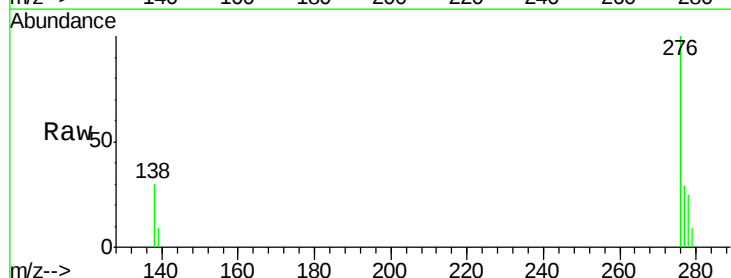
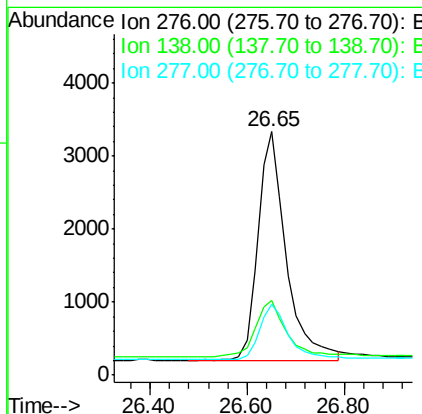
RT: 26.65 min Scan# 1760

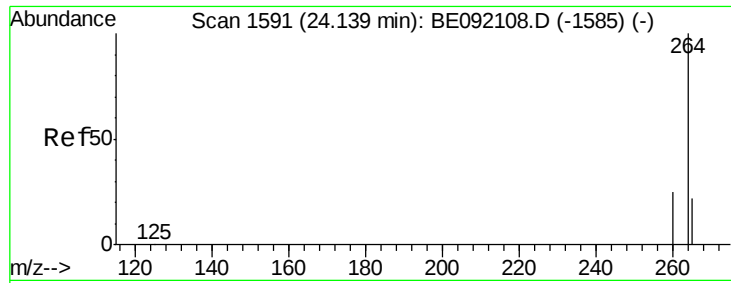
Delta R.T. -0.00 min

Lab File: BE092106.D

Acq: 2 Aug 2016 11:33

Tgt Ion:	276	Resp:	12699
Ion Ratio	Lower	Upper	
276	100		
138	26.8	21.2	31.8
277	24.9	19.8	29.8





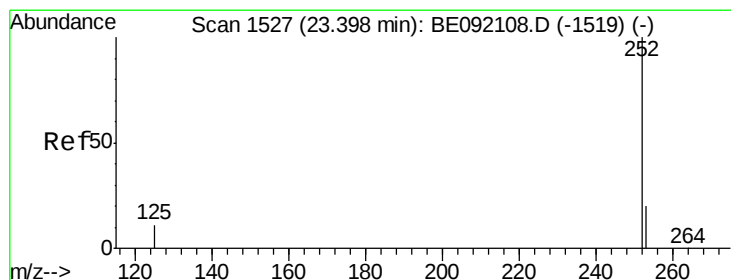
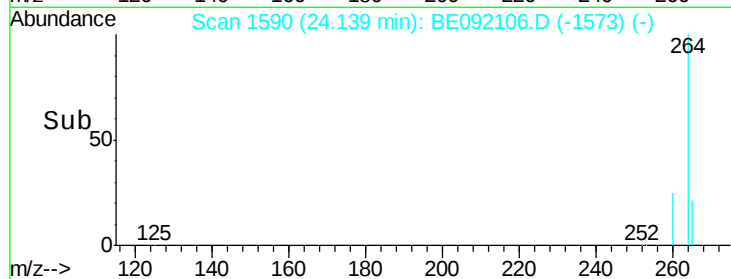
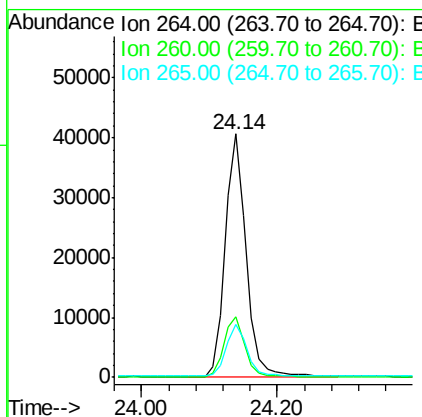
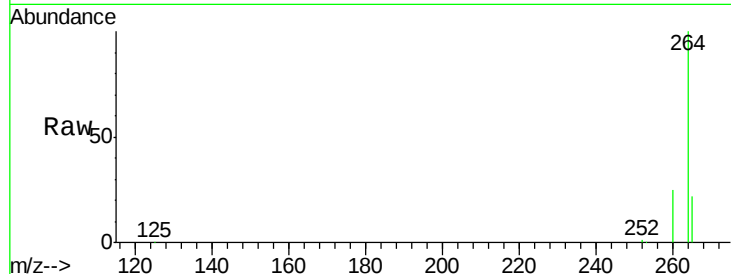
#28
Pervlene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1590
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Instrument :
BNA_E
ClientSampled :
SSTDIC0.1

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.8	31.2
265	21.8	16.6	25.0

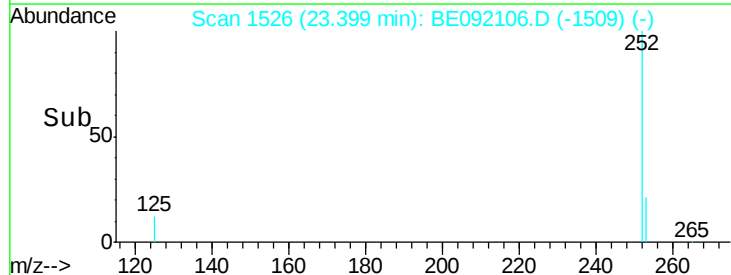
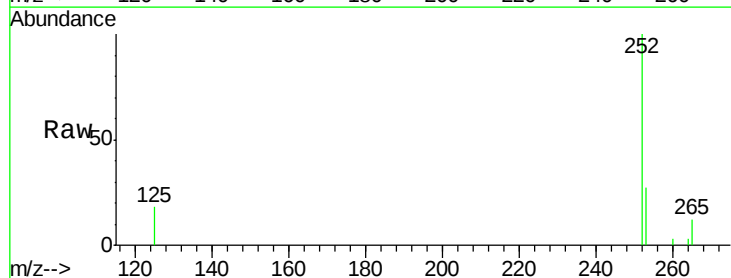
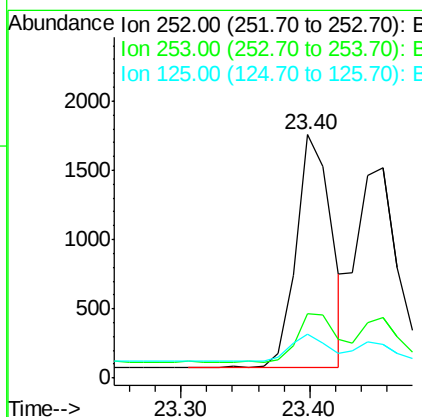
Manual Integrations
APPROVED

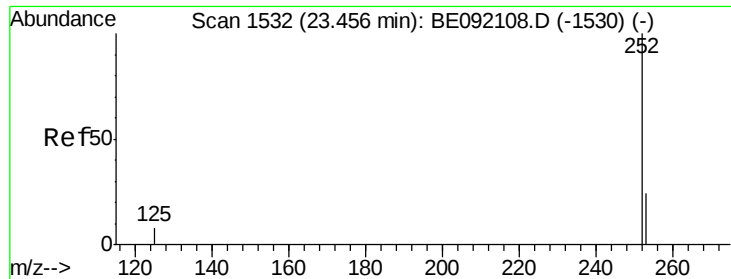
Sohil
8/3/2016 8:38:59 AM



#29
Benzo(b)fluoranthene
Concen: 0.13 ng
RT: 23.40 min Scan# 1526
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.5	17.4	26.0#
125	18.1	10.2	15.2#





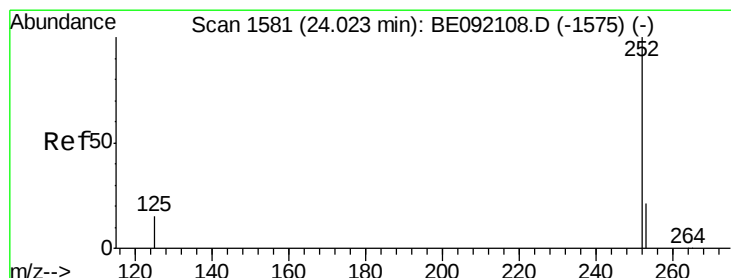
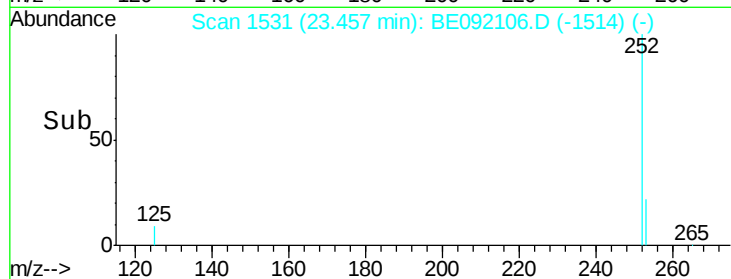
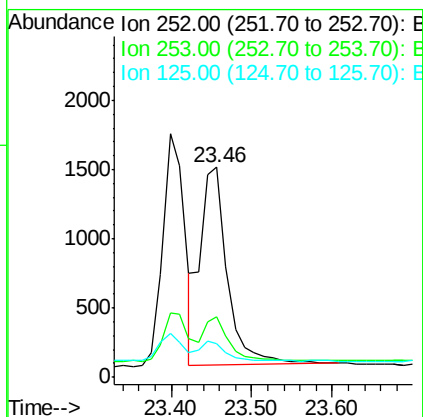
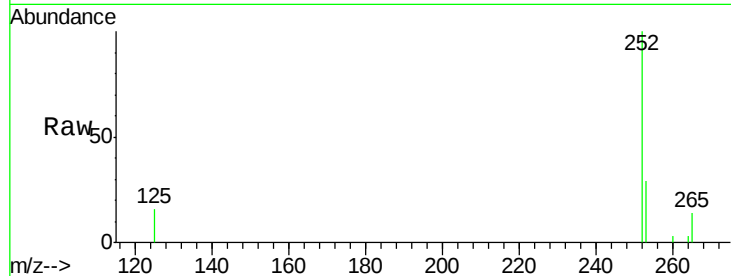
#30
Benzo(k)fluoranthene
Concen: 0.13 ng
RT: 23.46 min Scan# 1531
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.9	19.4	29.0
125	16.3	8.9	13.3

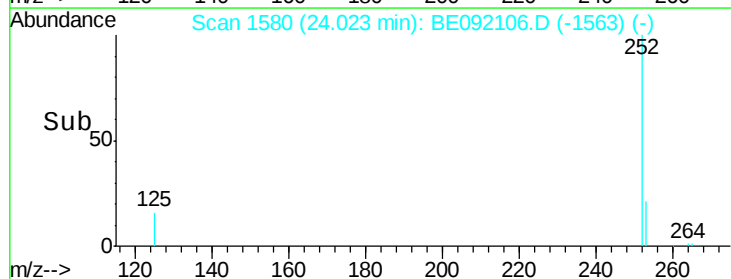
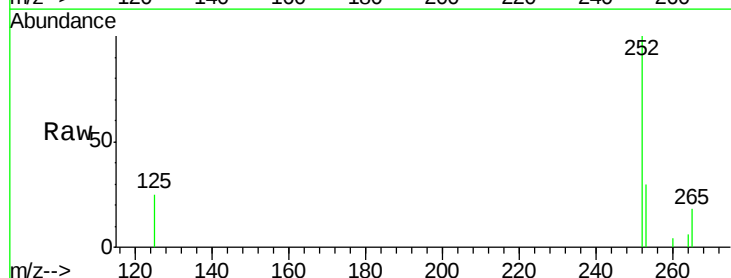
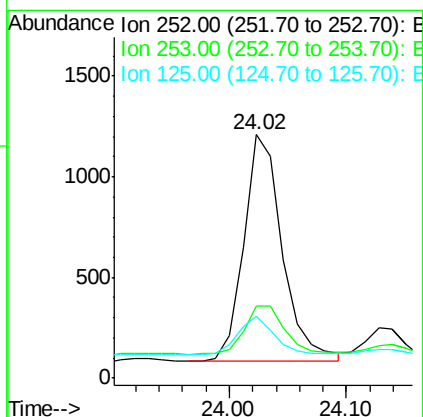
Manual Integrations
APPROVED

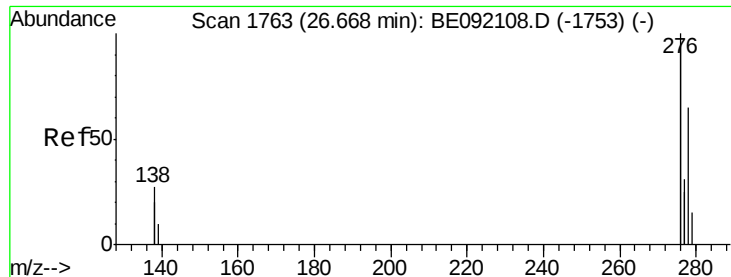
Sohil
8/3/2016 8:38:59 AM



#31
Benzo(a)pyrene
Concen: 0.11 ng
RT: 24.02 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.7	19.8	29.8
125	25.2	10.4	15.6





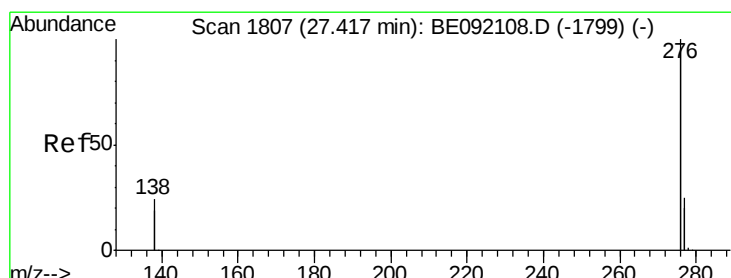
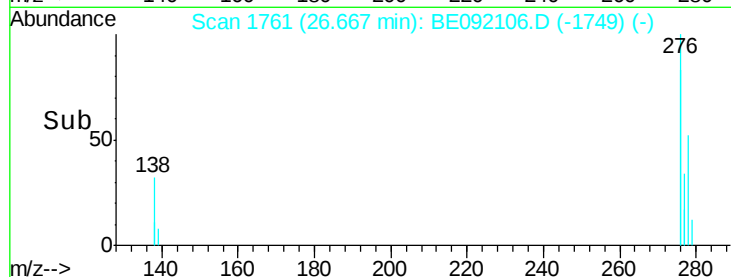
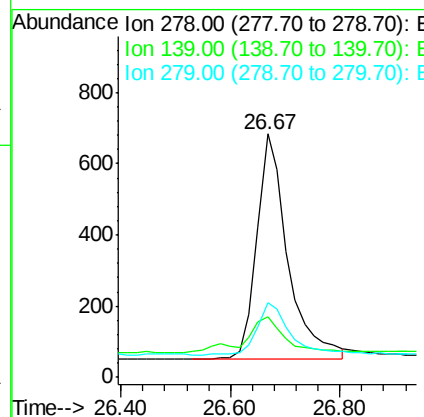
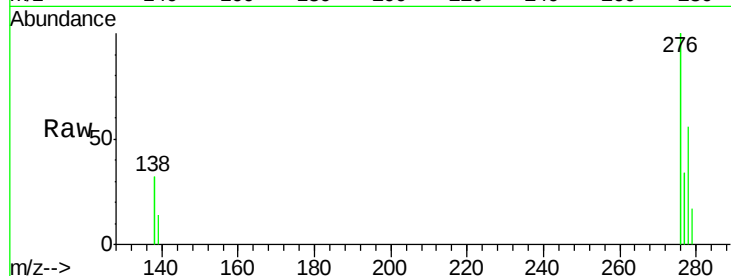
#32
Dibenzo(a,h)anthracene
Concen: 0.12 ng
RT: 26.67 min Scan# 1761
Delta R.T. -0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.0	16.7	25.1
279	30.6	20.3	30.5

Manual Integrations
APPROVED

Sohil
8/3/2016 8:38:59 AM



#33
Benzo(g,h,i)perylene
Concen: 0.12 ng
RT: 27.42 min Scan# 1805
Delta R.T. -0.00 min
Lab File: BE092106.D
Acq: 2 Aug 2016 11:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.9	19.5	29.3
138	28.2	20.8	31.2

