

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086970.D
 Acq On : 13 May 2016 12:28
 Operator : UM/SJ
 Sample : H2994-03DL 5X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)DL

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:06:01 PM

Quant Time: May 13 15:48:44 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	131744	20.00	ng	-0.08
21) Naphthalene-d8	7.91	136	523099	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	220254	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	341558	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	299495	20.00	ng	-0.08
86) Perylene-d12	15.12	264	255420	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	196237	25.23	ng	-0.08
7) Phenol-d6	6.28	99	252683	24.30	ng	-0.08
23) Nitrobenzene-d5	7.19	82	165955	15.93	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	44395	19.04	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	277538	21.18	ng	-0.08
78) Terphenyl-d14	12.72	244	207270	14.68	ng	-0.08
Target Compounds						Qvalue
48) Acenaphthylene	9.52	152	104266	5.16	ng	98
70) Phenanthrene	11.15	178	192349	10.55	ng	99
71) Anthracene	11.21	178	87105	4.67	ng	99
74) Fluoranthene	12.34	202	479585	25.58	ng	92
77) Pyrene	12.57	202	377846	16.48	ng	98
80) Benzo(a)anthracene	13.75	228	277113	16.48	ng	# 92
82) Chrysene	13.78	228	201408m	11.78	ng	
85) Indeno(1,2,3-cd)pyrene	16.38	276	83324	5.86	ng	# 92
87) Benzo(b)fluoranthene	14.75	252	263550m	15.88	ng	
88) Benzo(k)fluoranthene	14.78	252	121948m	8.97	ng	
89) Benzo(a)pyrene	15.07	252	159406	11.13	ng	96
90) Dibenzo(a,h)anthracene	16.38	278	25810m	2.14	ng	
91) Benzo(g,h,i)perylene	16.74	276	65739	5.36	ng	97

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

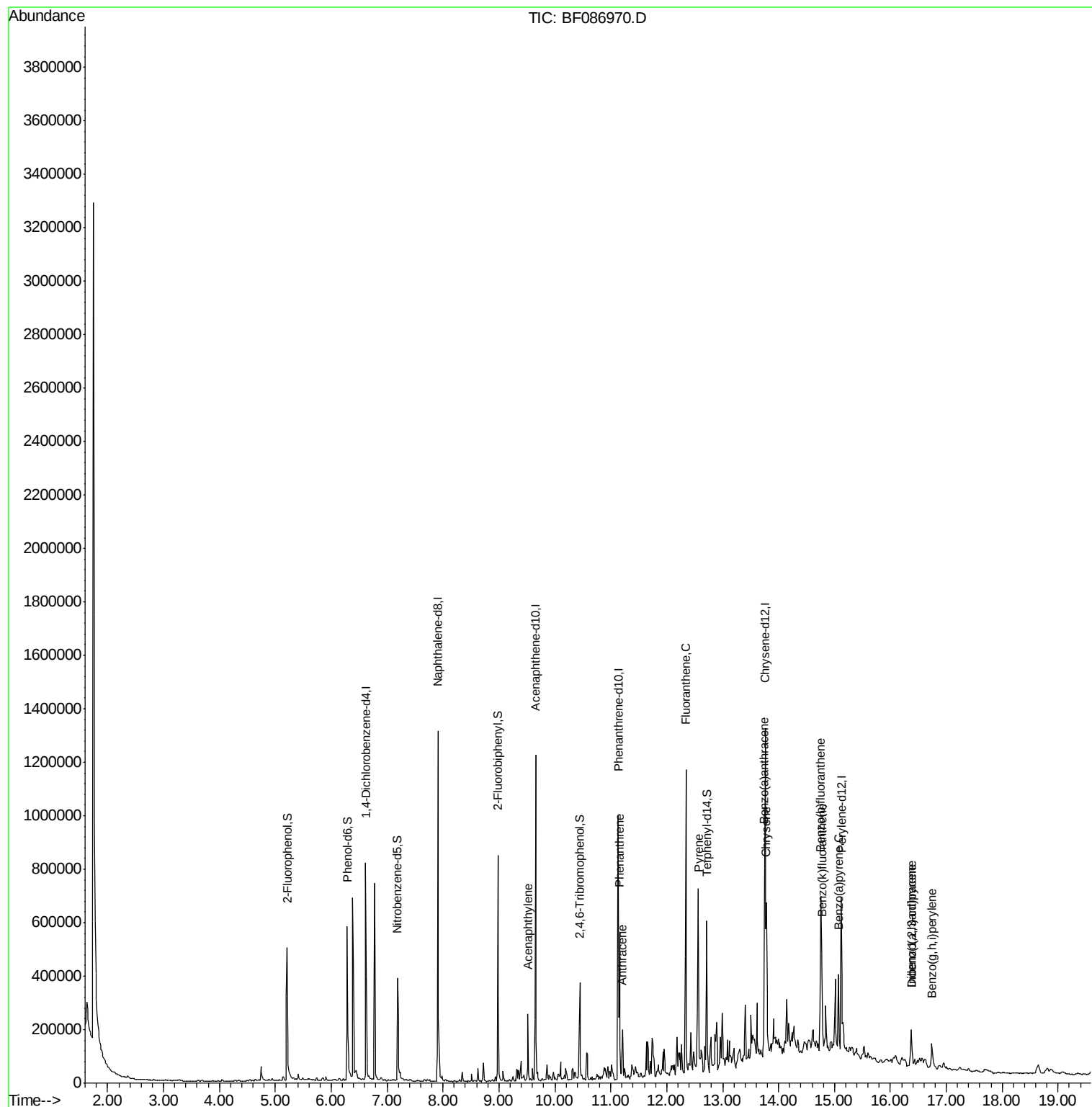
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
Data File : BF086970.D
Acq On : 13 May 2016 12:28
Operator : UM/SJ
Sample : H2994-03DL 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

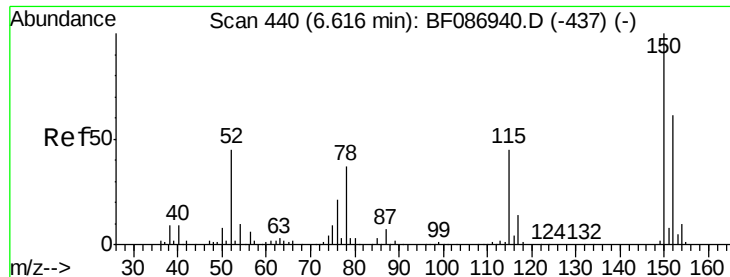
Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)DL

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM

Quant Time: May 13 15:48:44 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 14:55:23 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

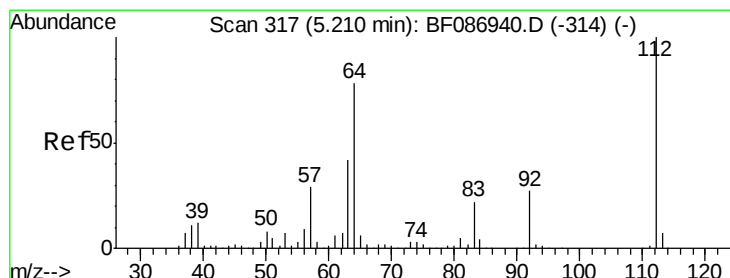
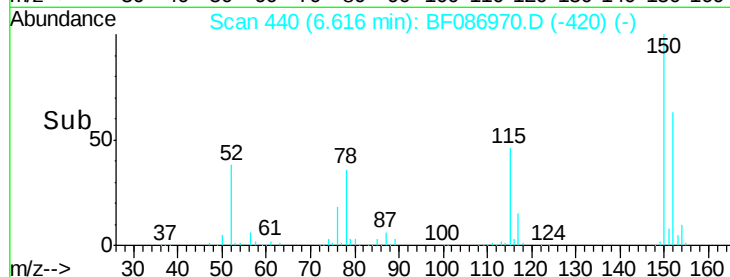
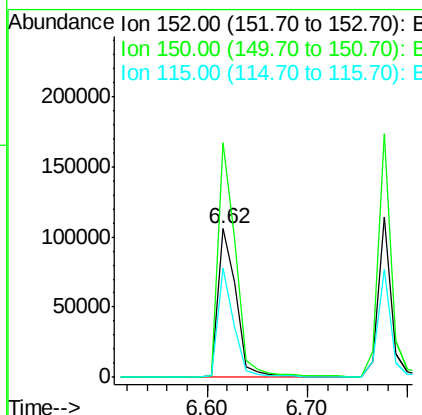
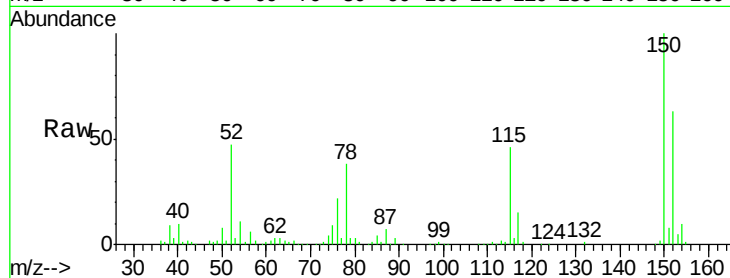
ClientSampleId :

PM-STA-1335-00(0-3)DL

Tgt Ion:	152	Resp:	131744
Ion Ratio	Lower	Upper	
152	100		
150	158.1	125.8	188.6
115	73.4	51.5	77.3

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#5

2-Fluorophenol

Concen: 25.23 ng

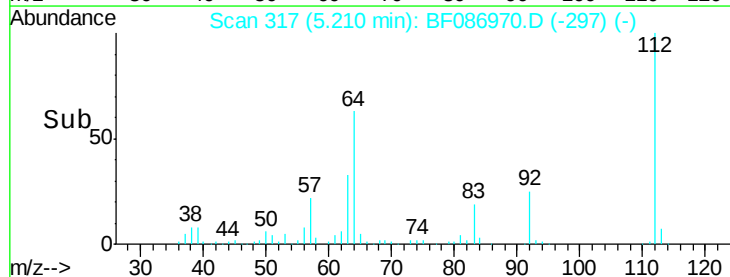
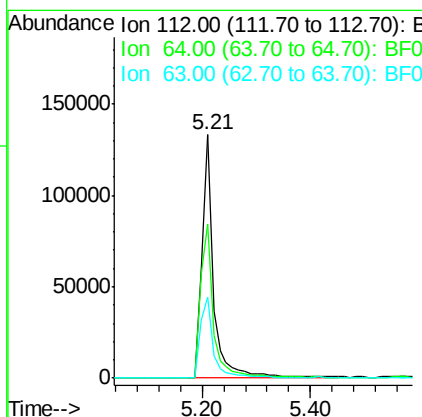
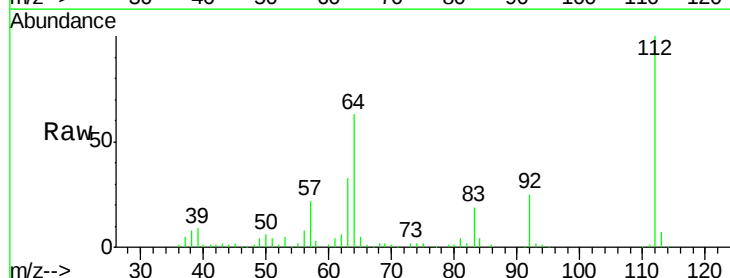
RT: 5.21 min Scan# 317

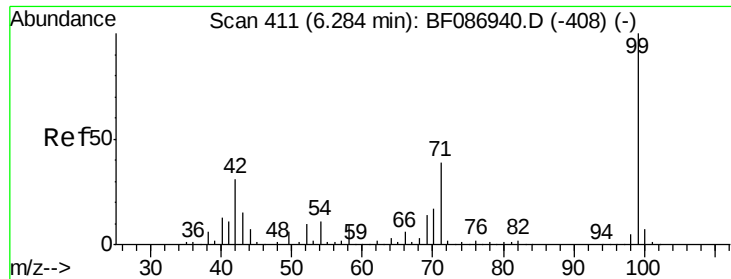
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion:	112	Resp:	196237
Ion Ratio	Lower	Upper	
112	100		
64	63.2	52.1	78.1
63	33.4	25.7	38.5





#7

Phenol-d6

Concen: 24.30 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

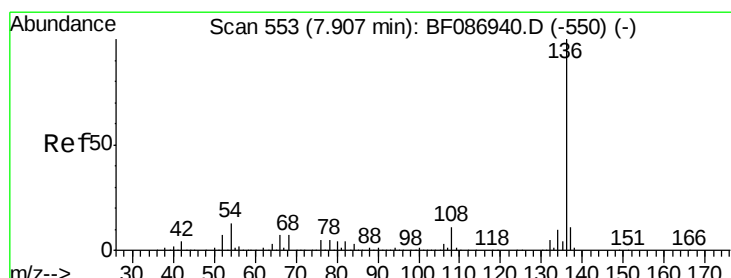
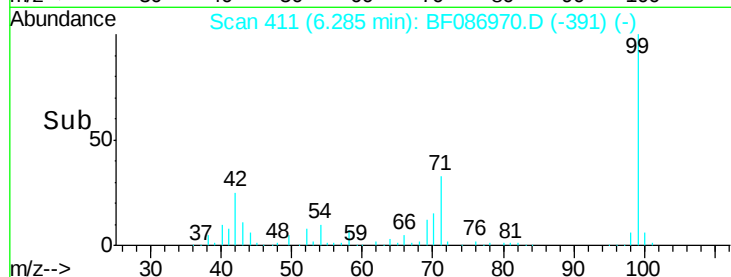
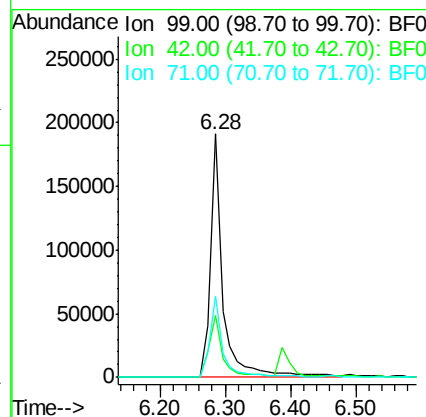
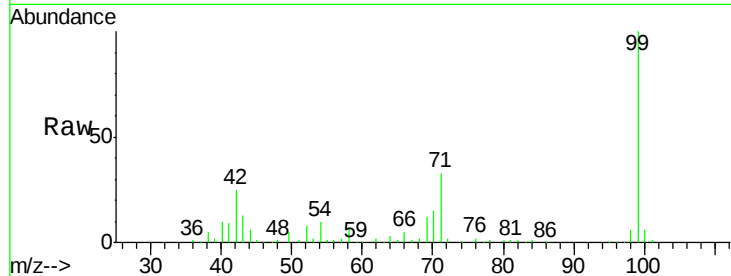
ClientSampleId :

PM-STA-1335-00(0-3)DL

Tgt Ion:	99	Resp:	252683
Ion Ratio	Lower	Upper	
99	100		
42	25.5	13.6	20.4#
71	33.3	24.6	36.8

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#21

Naphthalene-d8

Concen: 20.00 ng

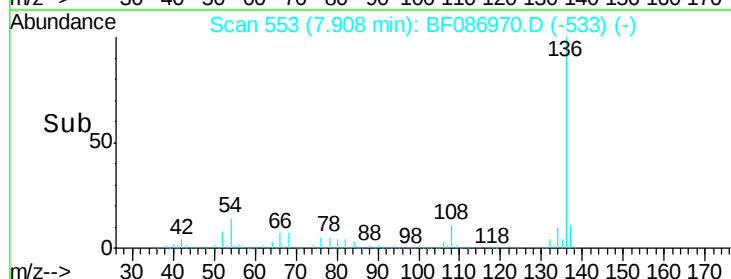
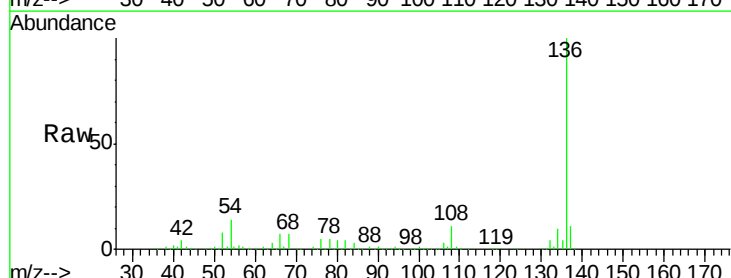
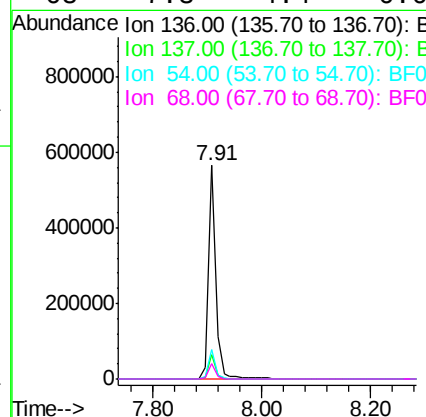
RT: 7.91 min Scan# 553

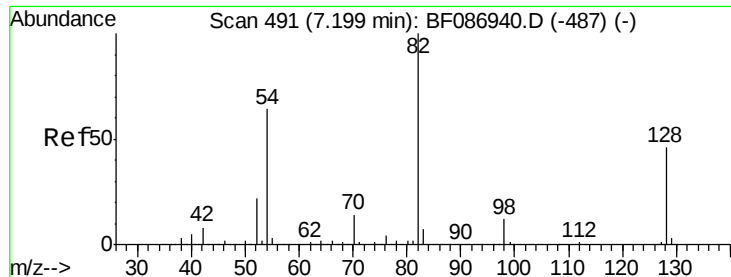
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion:	136	Resp:	523099
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.8	13.2
54	13.7	5.0	7.4#
68	7.3	4.4	6.6#





#23

Nitrobenzene-d5

Concen: 15.93 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

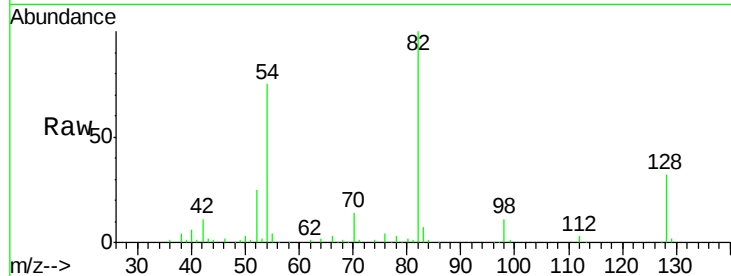
ClientSampleId :

PM-STA-1335-00(0-3)DL

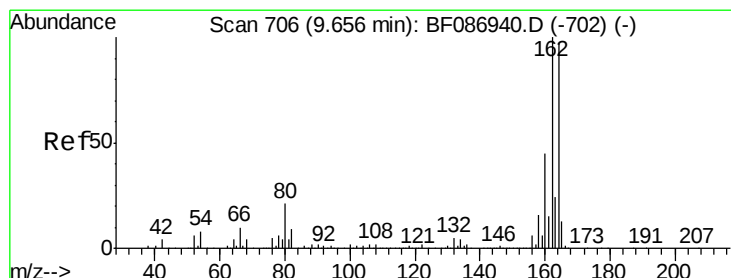
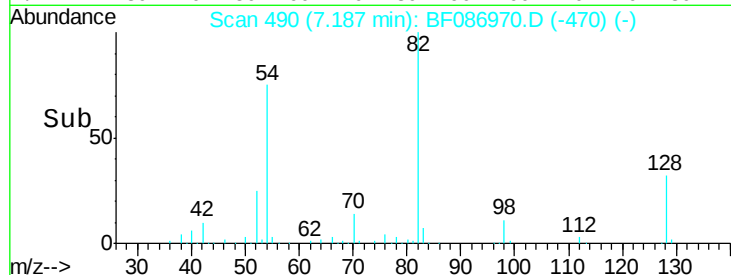
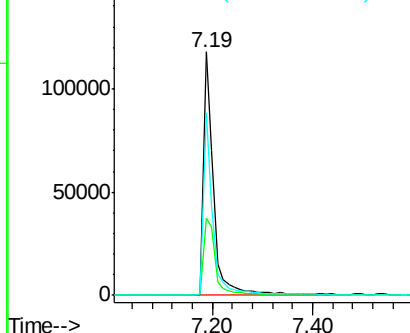
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	165955		
128	31.5	40.6	61.0#	
54	75.0	38.1	57.1#	

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

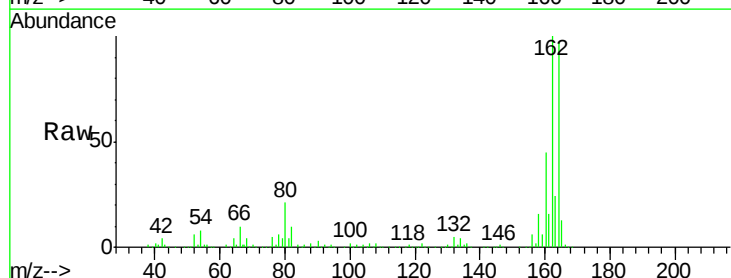
RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

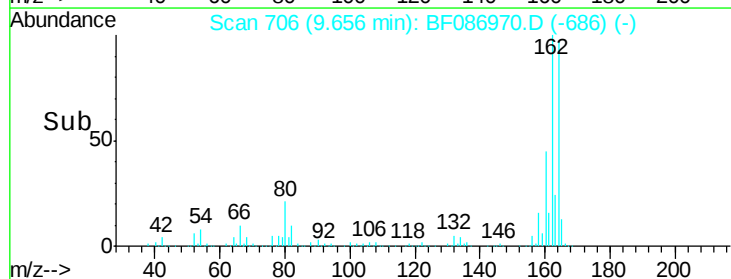
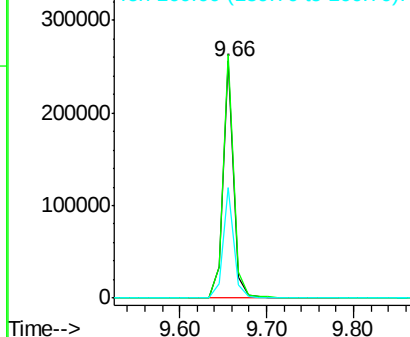
Lab File: BF086970.D

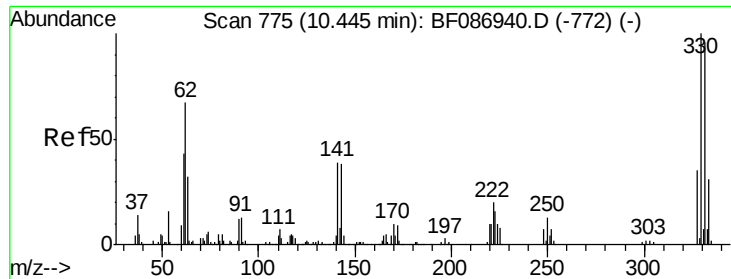
Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	220254		
162	102.7	82.8	124.2	
160	46.4	36.9	55.3	



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





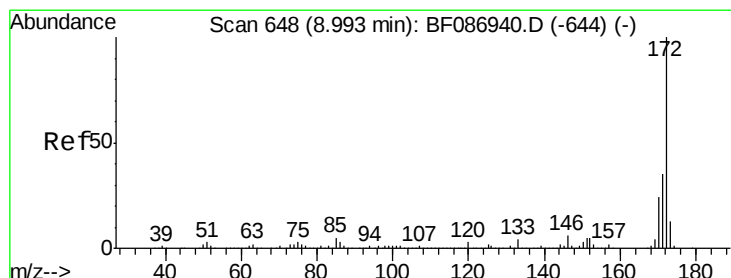
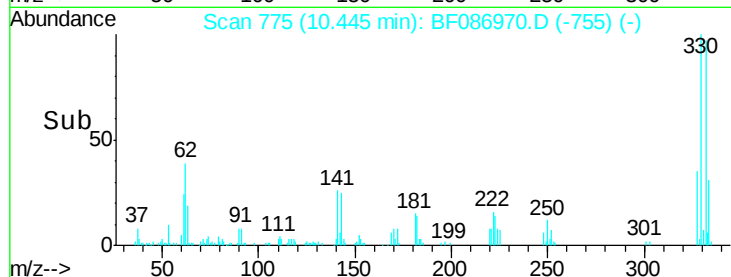
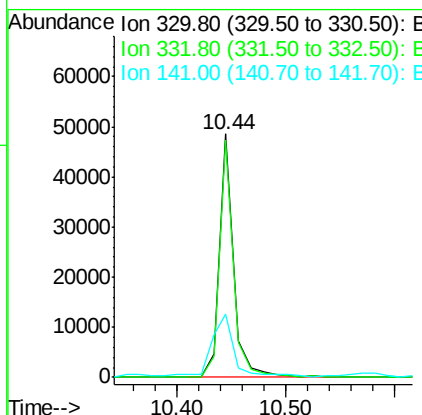
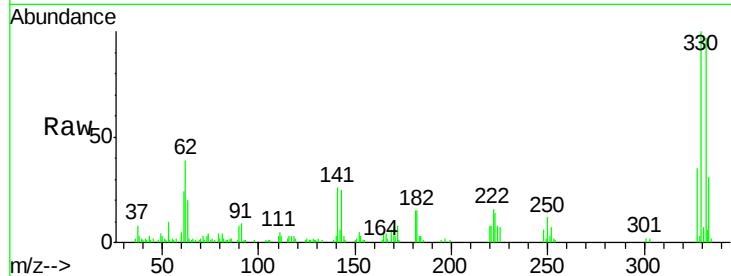
#41
 2,4,6-Tribromophenol
 Concen: 19.04 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.08 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	44395		
332	96.2	79.0	118.4	
141	42.9	31.2	46.8	

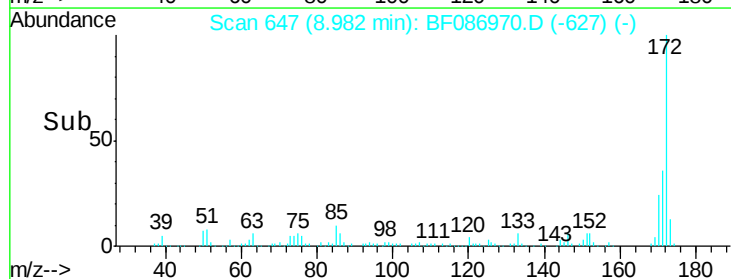
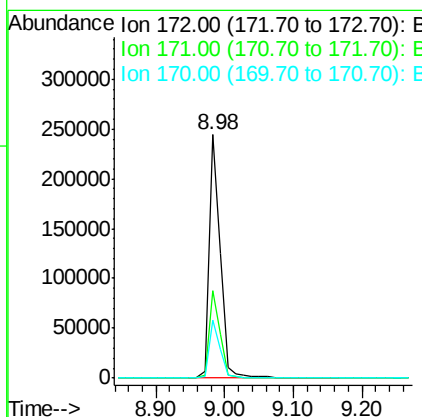
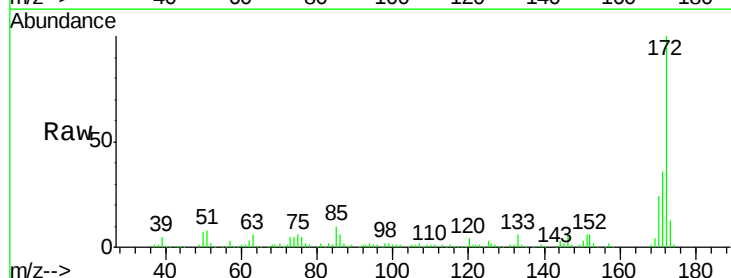
Manual Integrations
 APPROVED

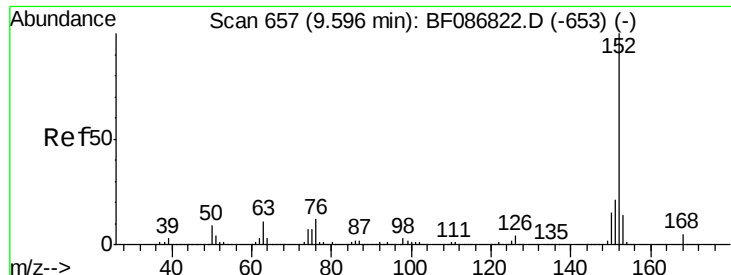
sohil
 5/13/2016 8:06:01 PM



#44
 2-Fluorobiphenyl
 Concen: 21.18 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	277538		
171	35.7	29.0	43.6	
170	23.7	19.8	29.8	





#48

Acenaphthylene

Concen: 5.16 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.08 min

Lab File: BF086970.D

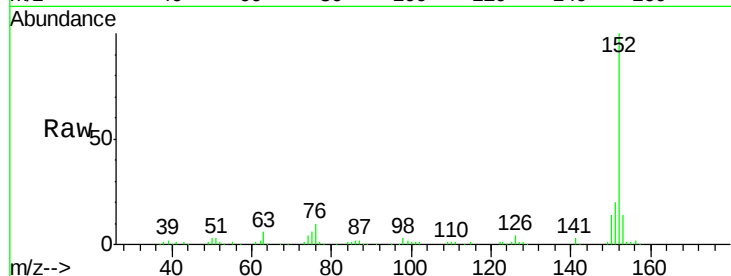
Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

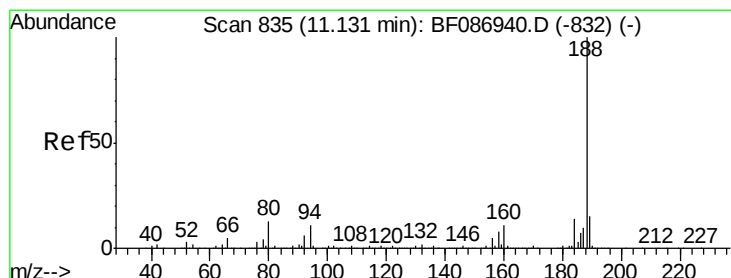
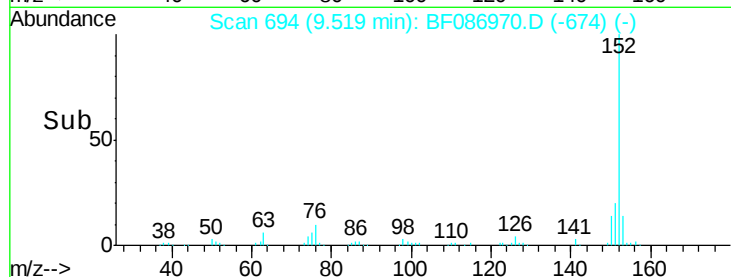
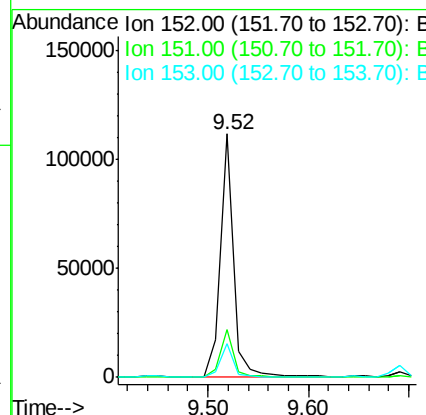
PM-STA-1335-00(0-3)DL



Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	19.6	16.8	25.2	
153	13.8	10.9	16.3	

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

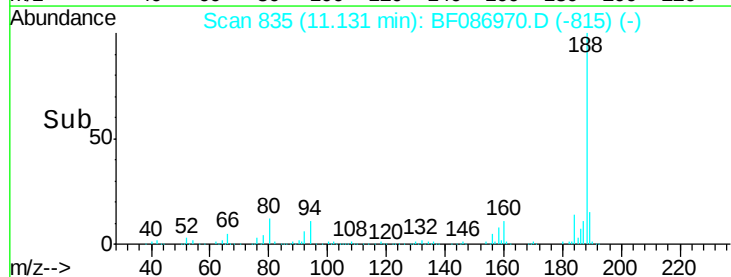
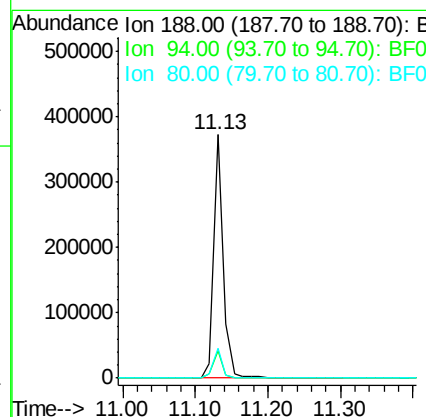
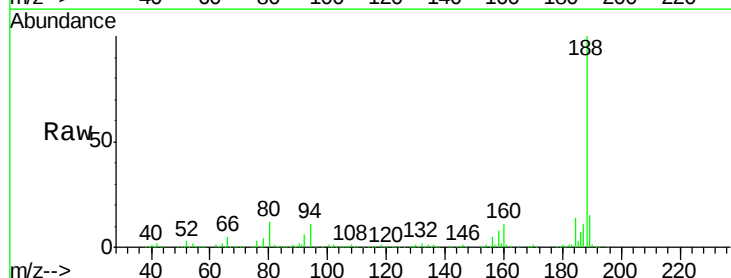
RT: 11.13 min Scan# 835

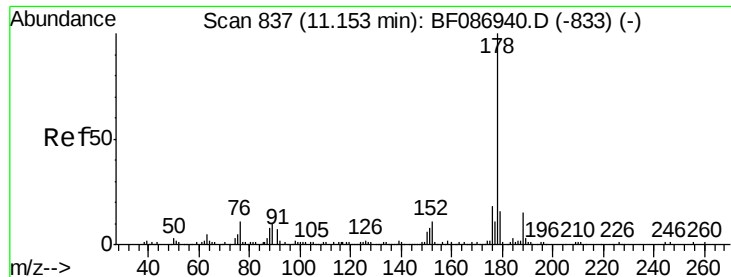
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.2	6.8	10.2#	
80	12.1	7.1	10.7#	





#70

Phenanthrene

Concen: 10.55 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

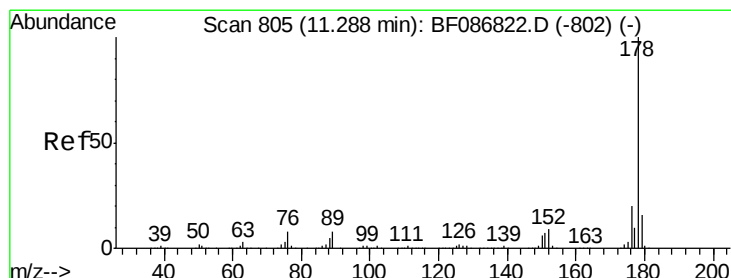
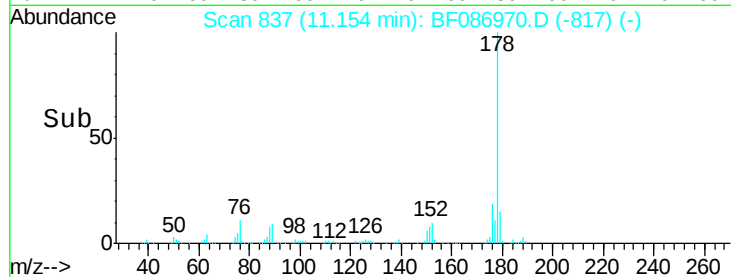
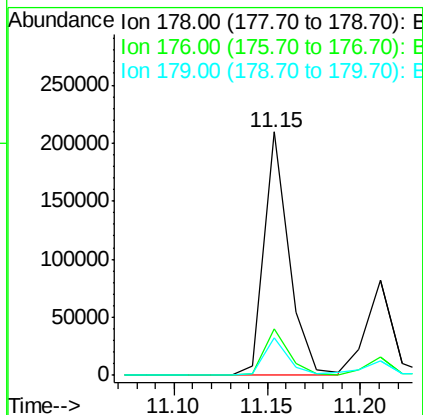
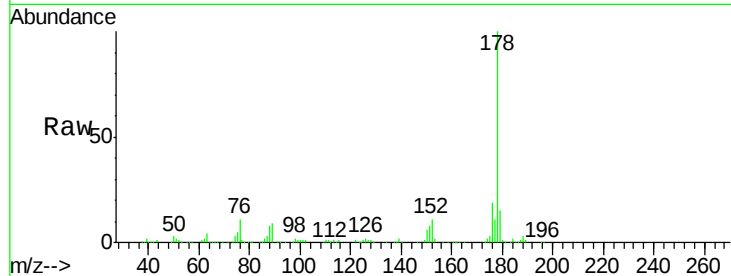
ClientSampleId :

PM-STA-1335-00(0-3)DL

Tgt Ion:	178	Resp:	192349
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.0	24.0
179	15.2	12.6	18.8

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#71

Anthracene

Concen: 4.67 ng

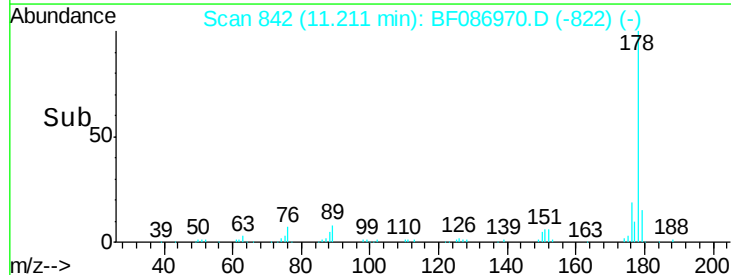
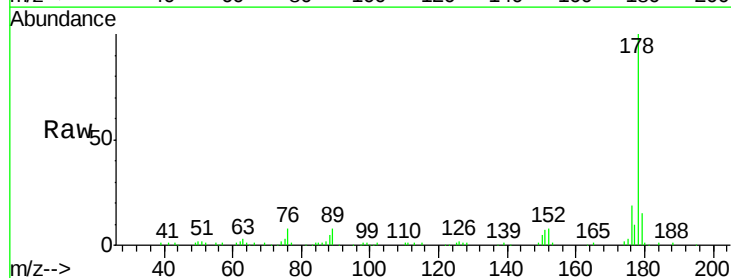
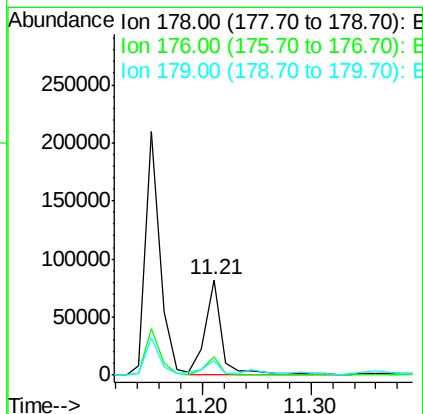
RT: 11.21 min Scan# 842

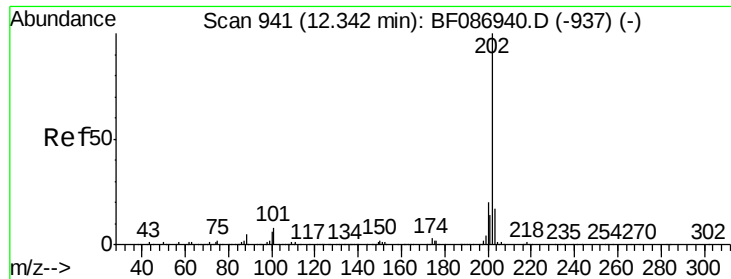
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion:	178	Resp:	87105
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.6	23.4
179	15.3	12.7	19.1





#74

Fluoranthene

Concen: 25.58 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

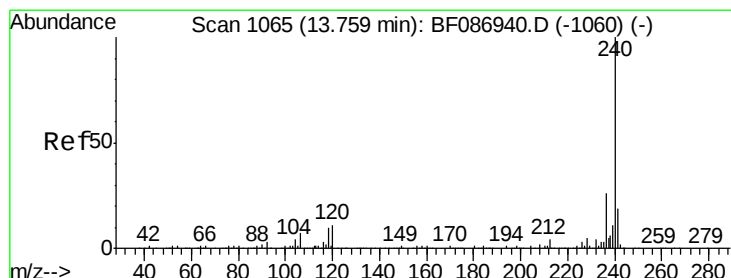
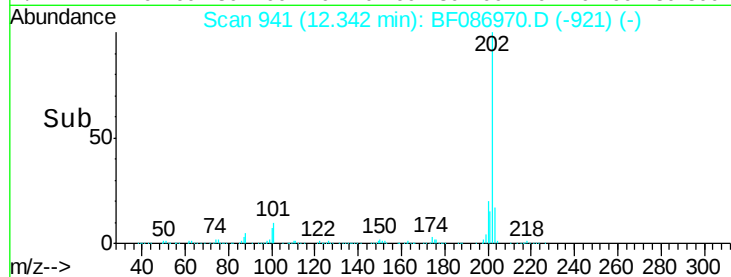
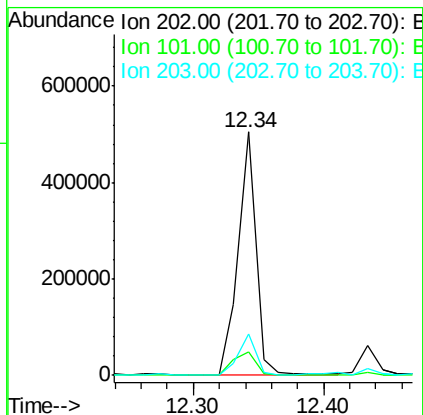
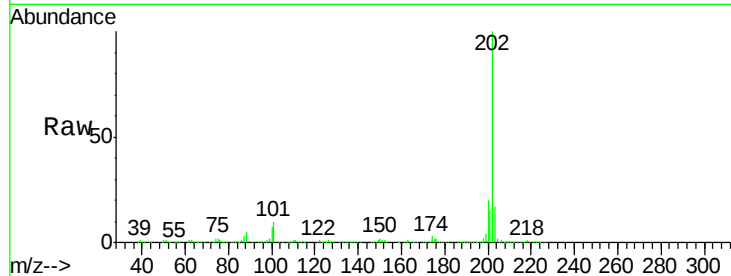
ClientSampleId :

PM-STA-1335-00(0-3)DL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	479585		
101	9.7	0.0	35.4	
203	17.1	0.0	38.1	

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#75

Chrysene-d12

Concen: 20.00 ng

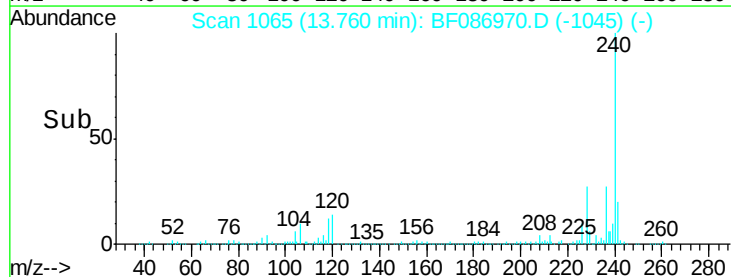
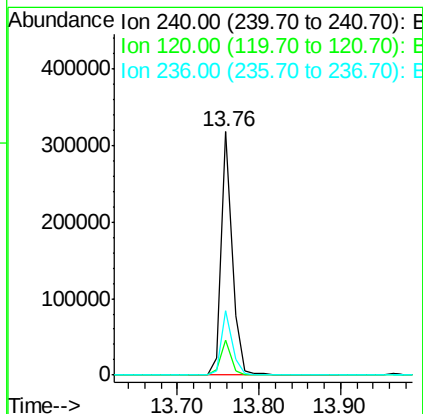
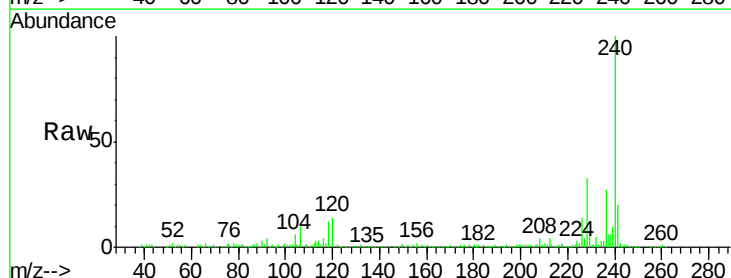
RT: 13.76 min Scan# 1065

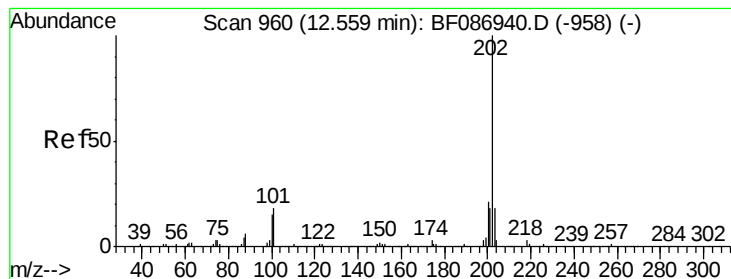
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	299495		
120	14.2	11.2	16.8	
236	26.7	21.2	31.8	





#77

Pyrene

Concen: 16.48 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.07 min

Lab File: BF086970.D

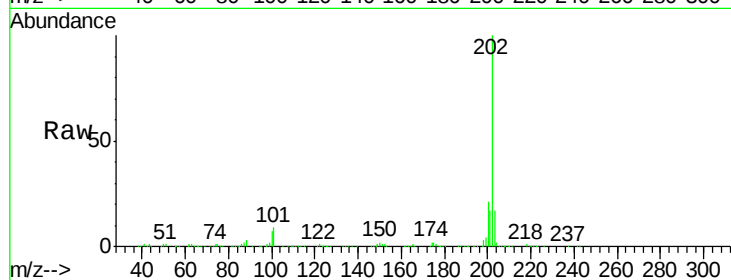
Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

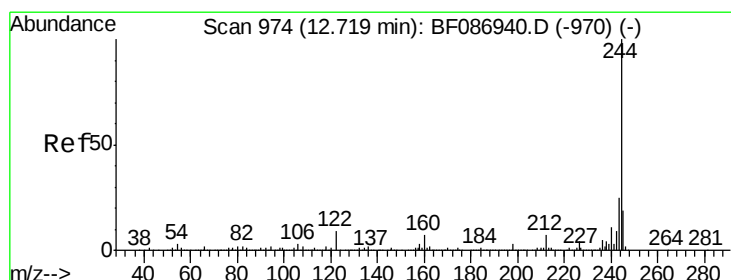
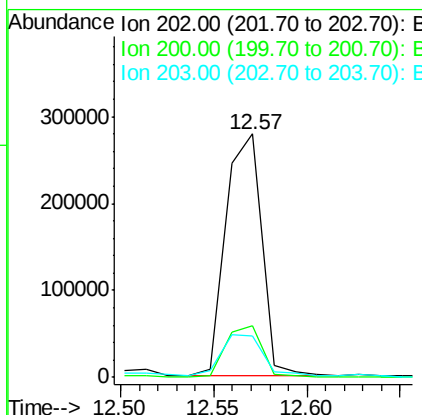
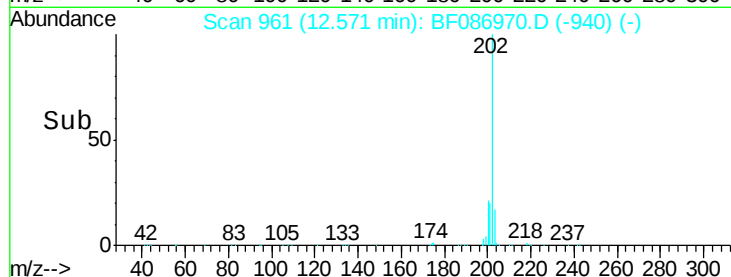
PM-STA-1335-00(0-3)DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	377846		
200	21.1		17.7	26.5
203	17.2		14.2	21.4

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#78

Terphenyl-d14

Concen: 14.68 ng

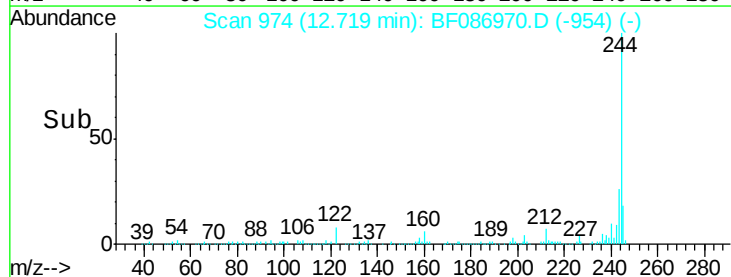
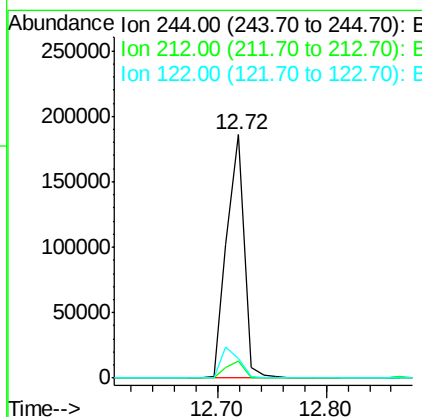
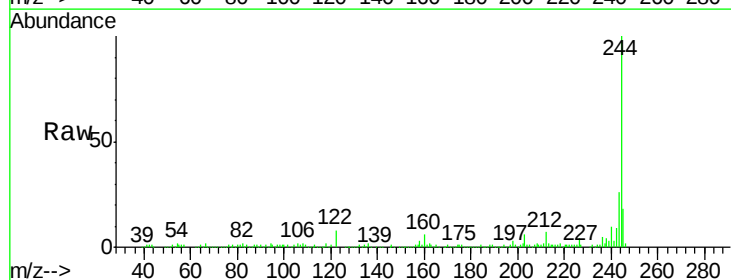
RT: 12.72 min Scan# 974

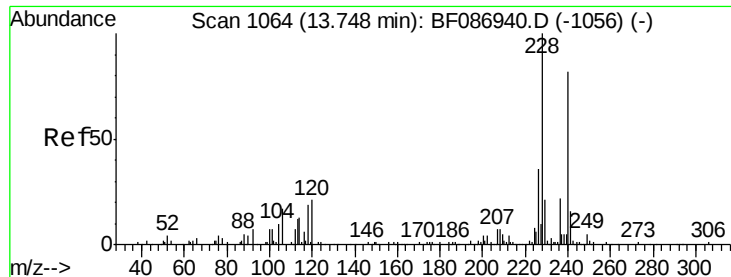
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	207270		
212	6.8		6.2	9.2
122	8.0		12.0	18.0#





#80

Benzo(a)anthracene

Concen: 16.48 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

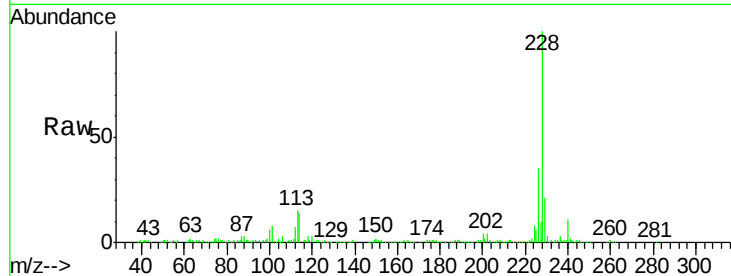
ClientSampleId :

PM-STA-1335-00(0-3)DL

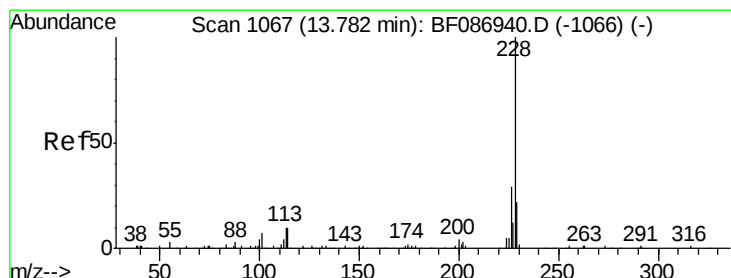
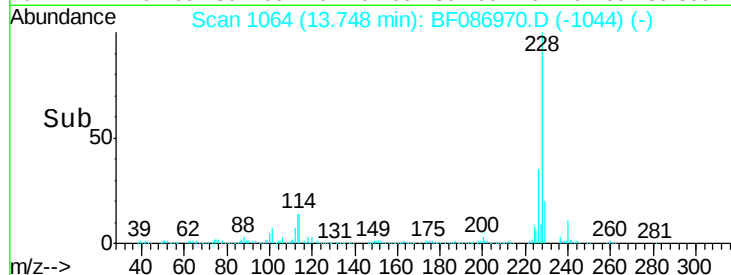
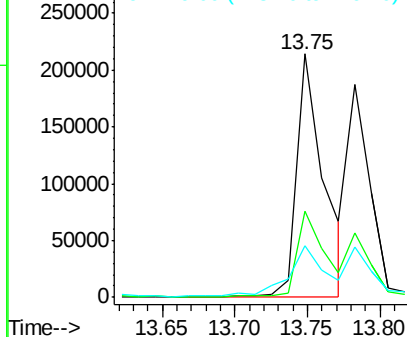
Tgt Ion:	228	Resp:	277113
Ion Ratio	Lower	Upper	
228	100		
226	35.4	22.5	33.7#
229	21.3	16.6	25.0

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 11.78 ng m

RT: 13.78 min Scan# 1067

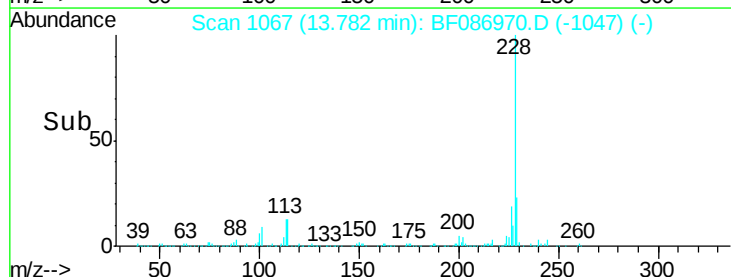
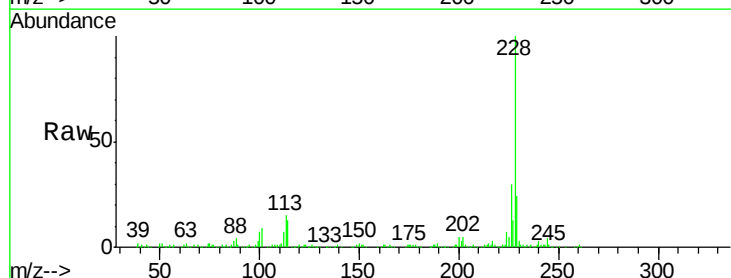
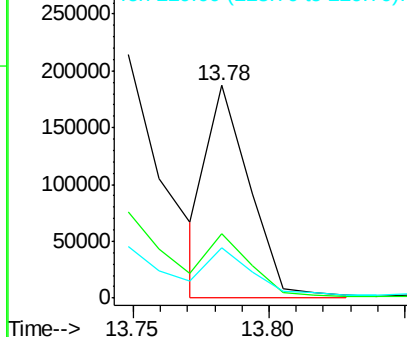
Delta R.T. -0.08 min

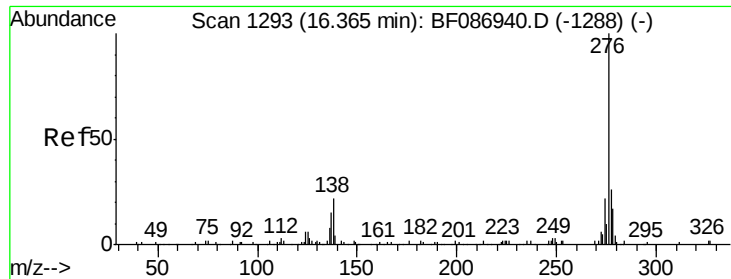
Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion:	228	Resp:	201408
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.4	36.6
229	23.9	15.8	23.8#

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.86 ng

RT: 16.38 min Scan# 1294

Delta R.T. -0.12 min

Lab File: BF086970.D

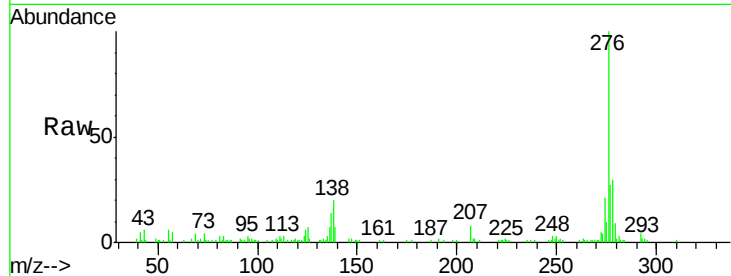
Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

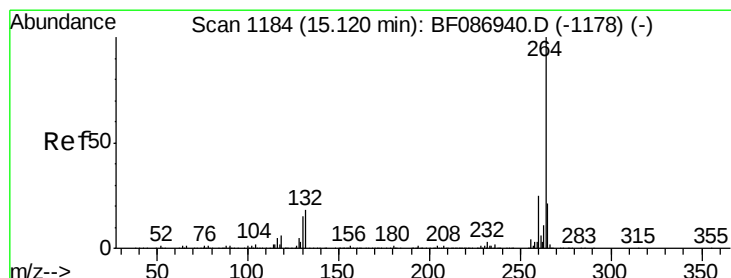
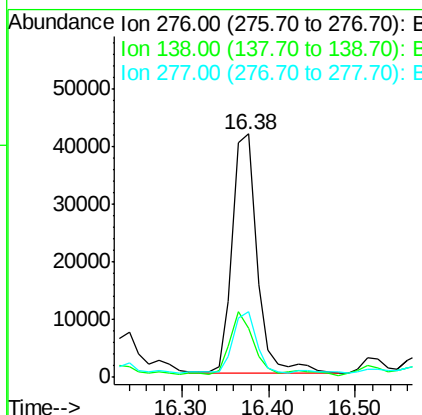
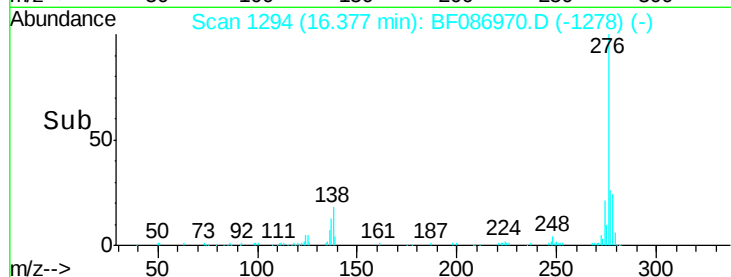
PM-STA-1335-00(0-3)DL



Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.0	25.6	38.4#
277	24.2	20.5	30.7

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#86

Perylene-d12

Concen: 20.00 ng

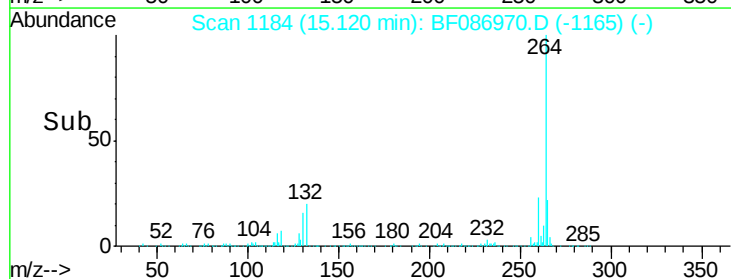
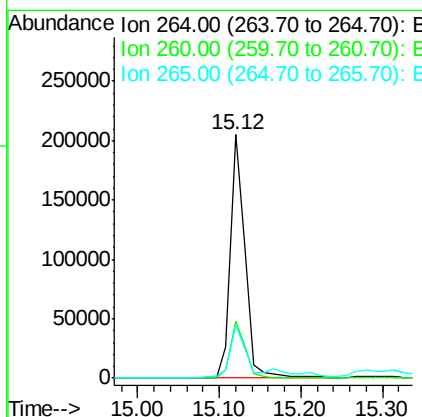
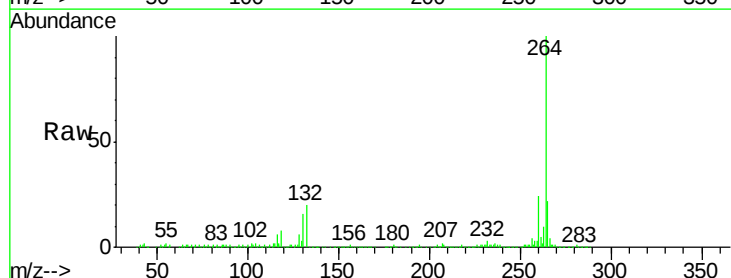
RT: 15.12 min Scan# 1184

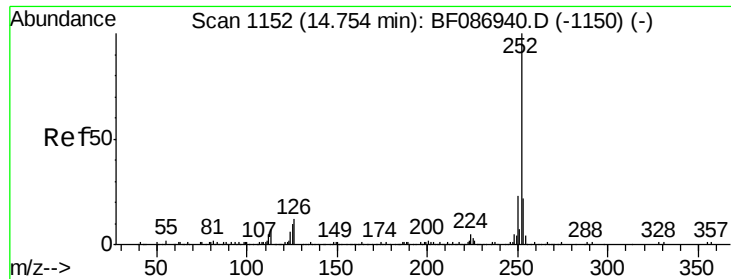
Delta R.T. -0.09 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	21.8	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 15.88 ng m

RT: 14.75 min Scan# 1152

Delta R.T. -0.08 min

Lab File: BF086970.D

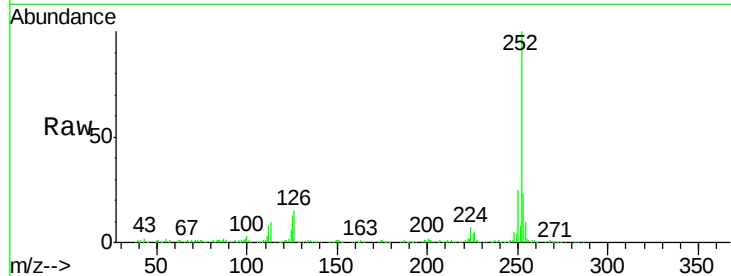
Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

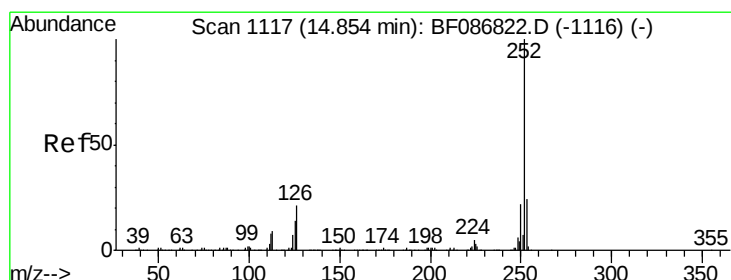
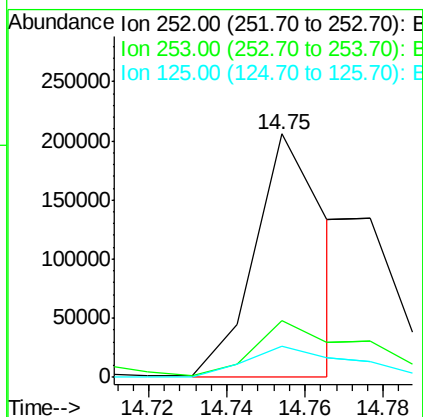
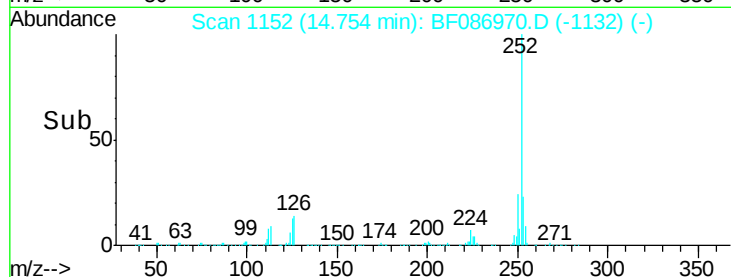
PM-STA-1335-00(0-3)DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	12.8	11.4	17.0

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#88

Benzo(k)fluoranthene

Concen: 8.97 ng m

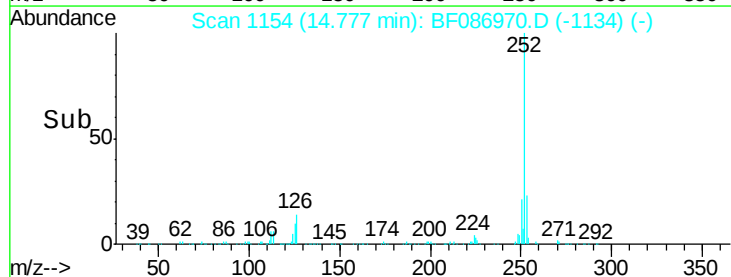
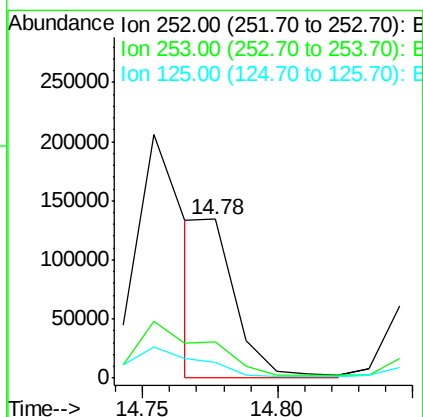
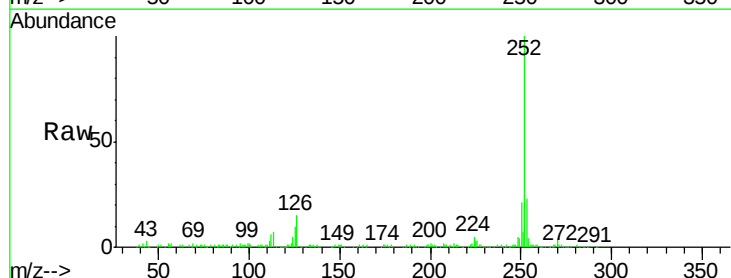
RT: 14.78 min Scan# 1154

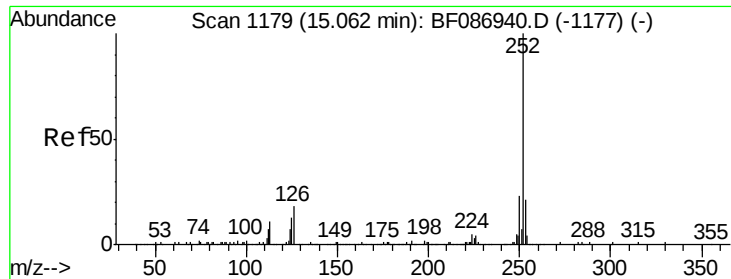
Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	10.2	9.1	13.7





#89

Benzo(a)pyrene

Concen: 11.13 ng

RT: 15.07 min Scan# 1180

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

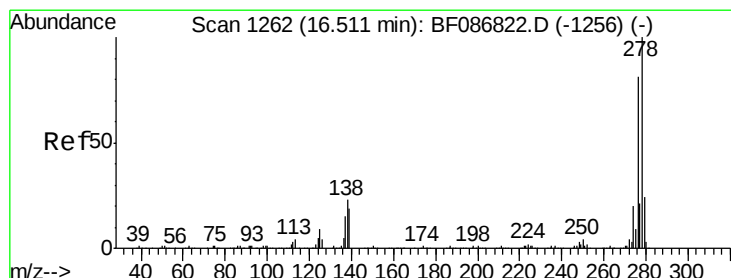
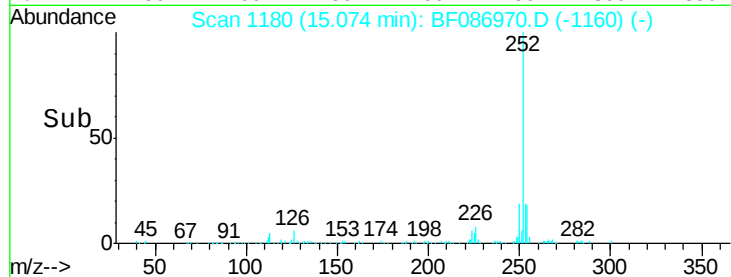
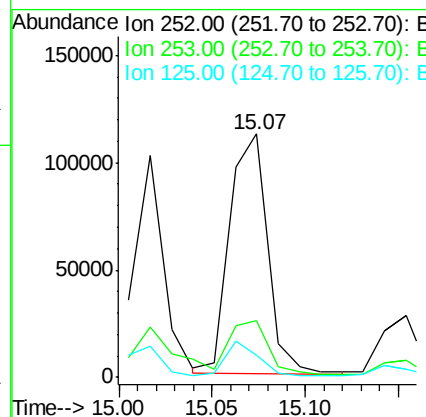
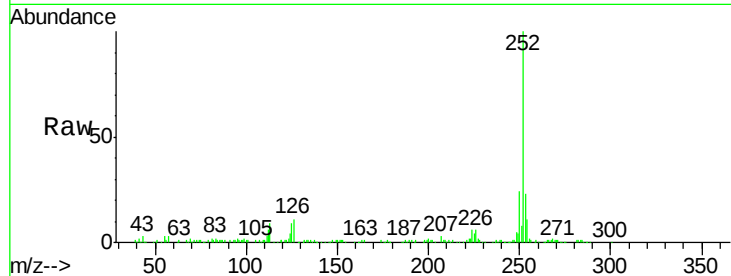
ClientSampleId :

PM-STA-1335-00(0-3)DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	159406		
253	23.2	17.2	25.8	
125	9.3	9.0	13.6	

Manual Integrations
APPROVED

sohil
5/13/2016 8:06:01 PM



#90

Dibenzo(a,h)anthracene

Concen: 2.14 ng m

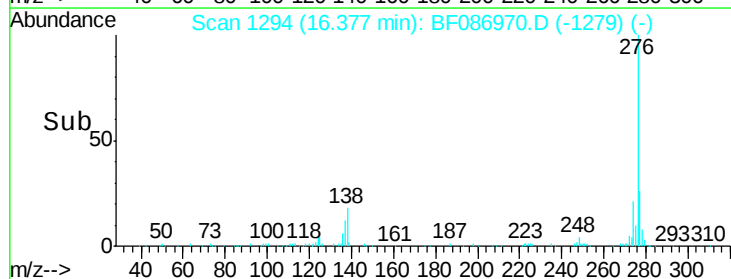
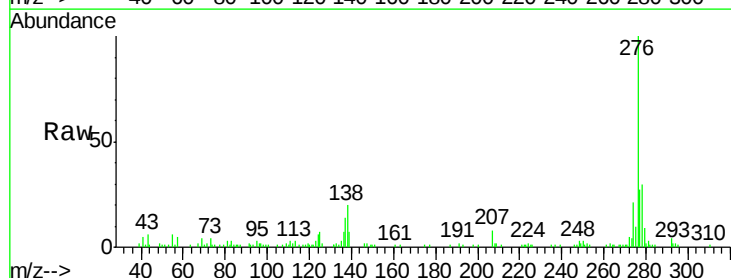
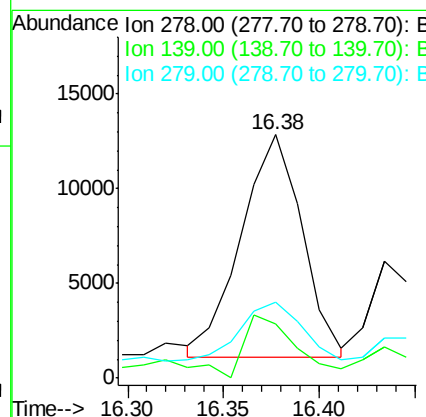
RT: 16.38 min Scan# 1294

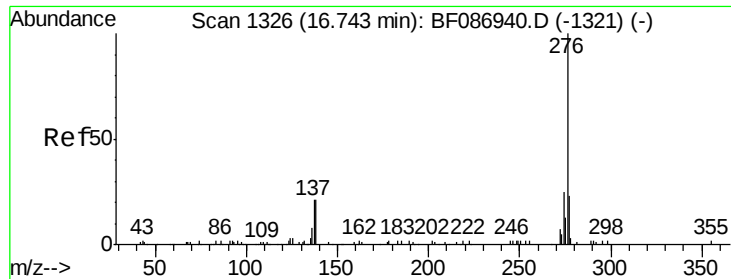
Delta R.T. -0.13 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	25810		
139	22.4	16.6	24.8	
279	31.0	19.6	29.4#	





#91
 Benzo(g,h,i)perylene
 Concen: 5.36 ng
 RT: 16.74 min Scan# 1326
 Delta R.T. -0.15 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.6	29.4
138	27.1	23.6	35.4

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:06:01 PM

