

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101416\
 Data File : BF090579.D
 Acq On : 14 Oct 2016 19:45
 Operator : UM/SJ
 Sample : H5264-01 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEWARK-POMPTON

Manual Integrations
 APPROVED

sohil
 10/17/2016 6:37:26 PM

Quant Time: Oct 14 23:15:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 14 12:44:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	163964	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	690601	20.00	ng	-0.01
38) Acenaphthene-d10	9.96	164	347834	20.00	ng	-0.01
63) Phenanthrene-d10	11.45	188	458755	20.00	ng	-0.01
75) Chrysene-d12	14.09	240	363080	20.00	ng	-0.01
86) Perylene-d12	15.56	264	406547	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	222669	24.90	ng	-0.01
7) Phenol-d6	6.54	99	306234	23.04	ng	-0.01
23) Nitrobenzene-d5	7.48	82	179833	14.47	ng	-0.01
41) 2,4,6-Tribromophenol	10.75	330	50228	16.20	ng	-0.01
44) 2-Fluorobiphenyl	9.29	172	323563	15.33	ng	0.00
78) Terphenyl-d14	13.04	244	206726	13.26	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.22	128	234550	6.67	ng	98
37) 2-Methylnaphthalene	8.92	142	93666	4.53	ng	97
49) Dimethylphthalate	9.67	163	45259	2.01	ng	# 98
51) Acenaphthene	9.99	154	87918	4.21	ng	99
54) Dibenzofuran	10.17	168	86085	3.13	ng	98
57) Fluorene	10.51	166	112673	4.97	ng	99
70) Phenanthrene	11.47	178	535646	21.87	ng	99
71) Anthracene	11.53	178	212853	8.08	ng	98
72) Carbazole	11.69	167	49906	2.12	ng	97
74) Fluoranthene	12.66	202	532135	21.60	ng	93
77) Pyrene	12.89	202	473902	19.71	ng	97
80) Benzo(a)anthracene	14.09	228	239105m	11.57	ng	
82) Chrysene	14.12	228	223502m	11.22	ng	
85) Indeno(1,2,3-cd)pyrene	17.01	276	128450	11.15	ng	95
87) Benzo(b)fluoranthene	15.13	252	290670m	10.93	ng	
88) Benzo(k)fluoranthene	15.15	252	121763m	4.25	ng	
89) Benzo(a)pyrene	15.49	252	228769	9.39	ng	97
91) Benzo(g,h,i)perylene	17.45	276	120832	6.82	ng	97

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

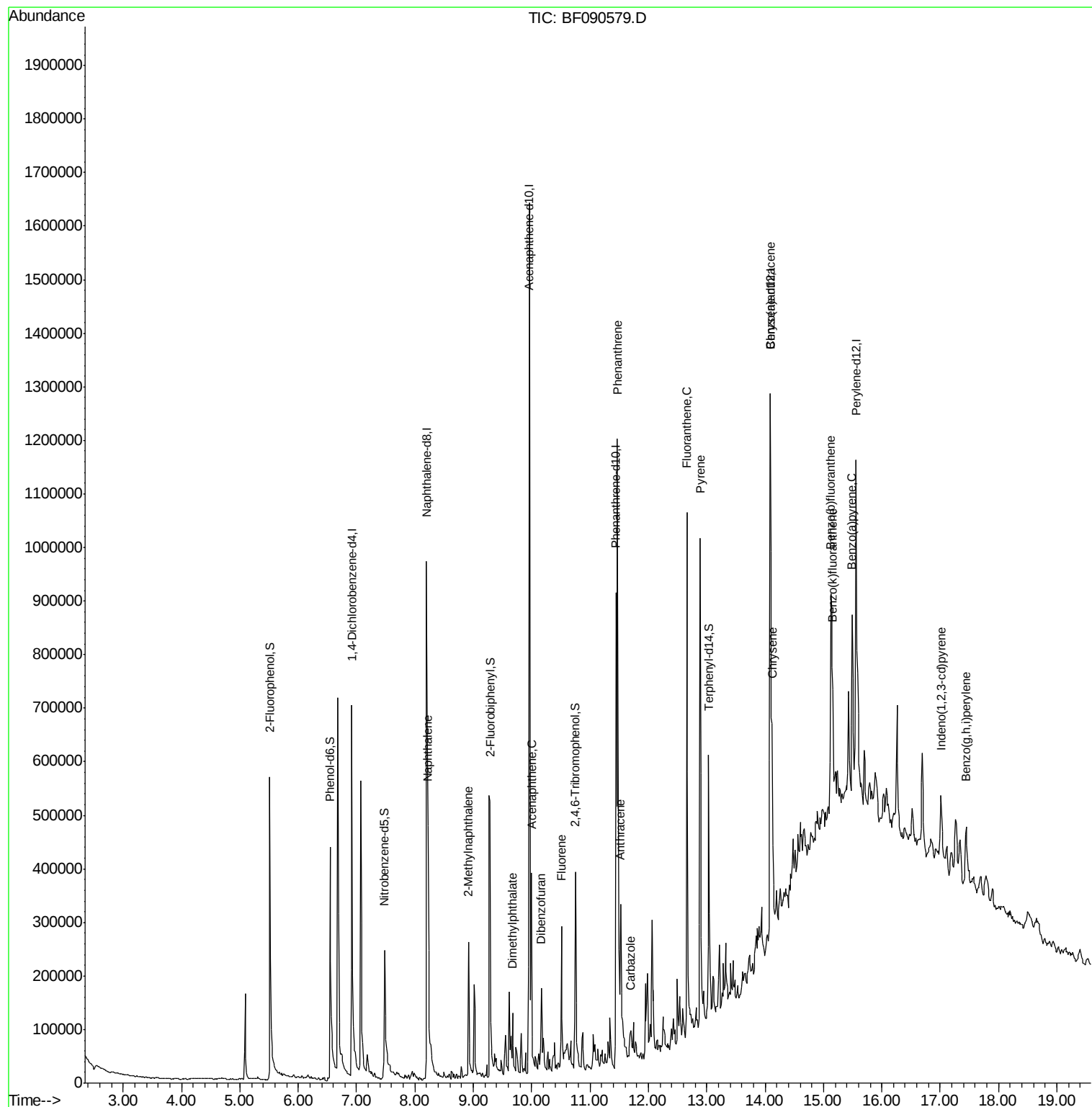
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101416\
Data File : BF090579.D
Acq On : 14 Oct 2016 19:45
Operator : UM/SJ
Sample : H5264-01 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM

Quant Time: Oct 14 23:15:22 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 14 12:44:45 2016
Response via : Initial Calibration





#1

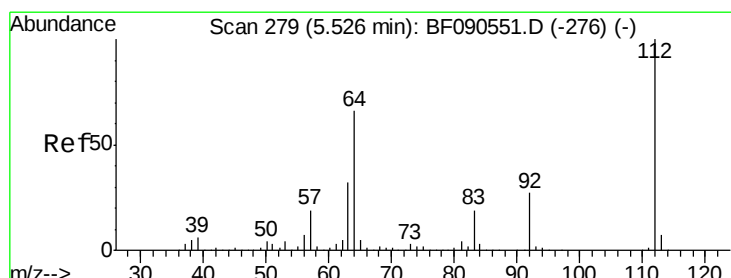
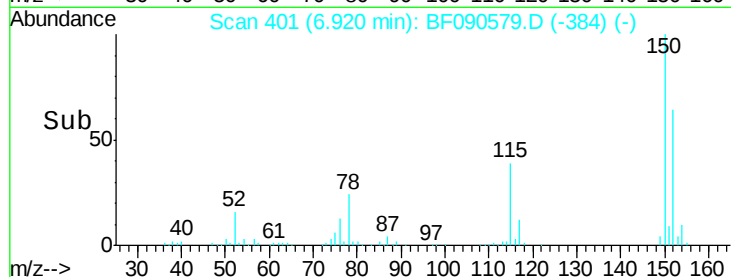
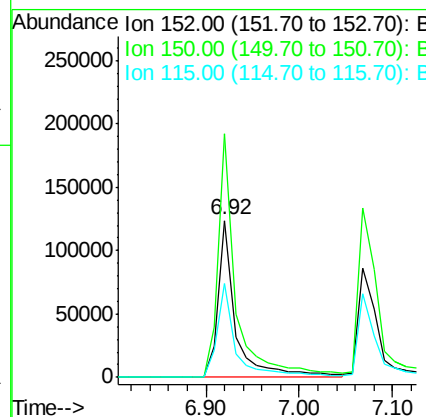
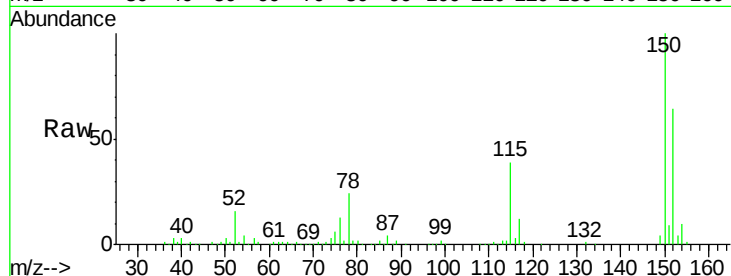
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.92 min Scan# 401
Delta R.T. -0.00 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	127.2	190.8
115	60.1	58.6	88.0

Manual Integrations
APPROVED

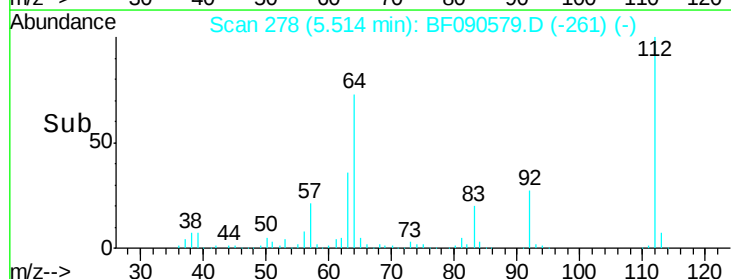
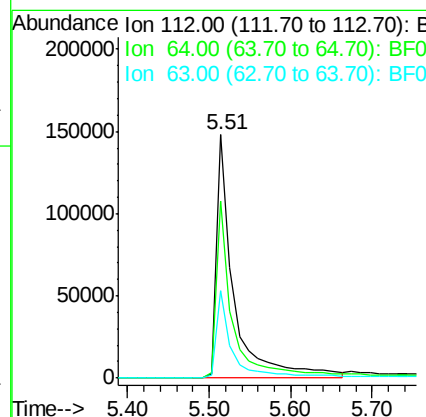
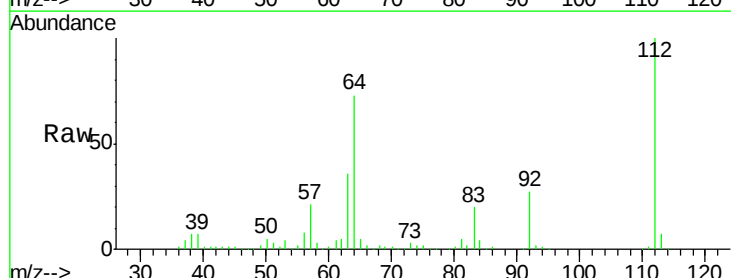
sohil
10/17/2016 6:37:26 PM

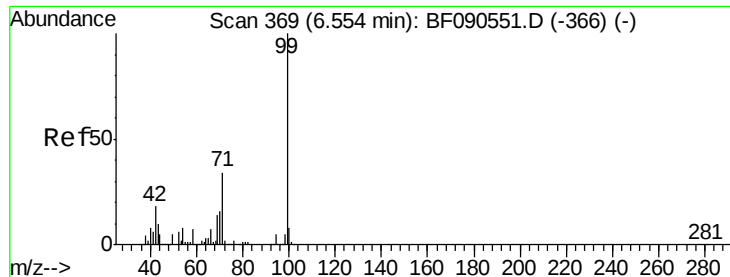


#5

2-Fluorophenol
Concen: 24.90 ng
RT: 5.51 min Scan# 278
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.8	52.6	78.8
63	35.8	26.0	39.0





#7

Phenol-d6

Concen: 23.04 ng

RT: 6.54 min Scan# 368

Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

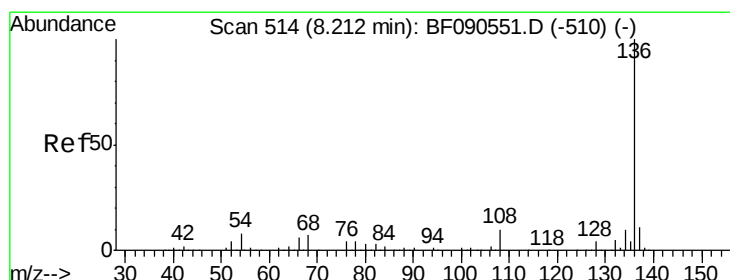
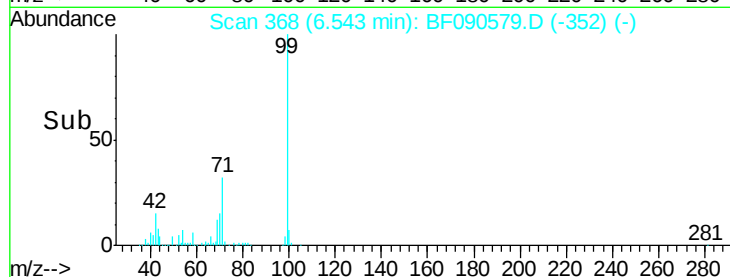
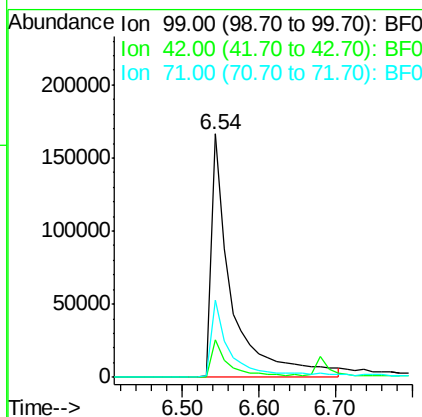
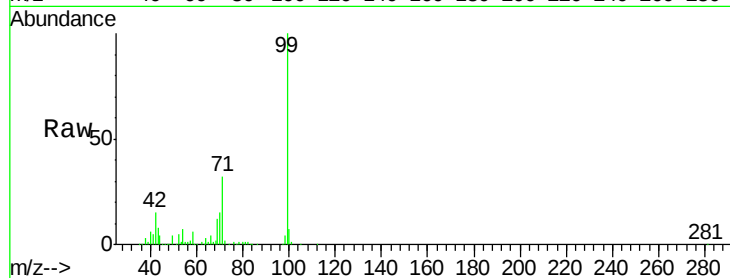
ClientSampleId :

NEWARK-POMPTON

Tot Ion:	99	Resp:	306234
Ion	Ratio	Lower	Upper
99	100		
42	15.4	14.7	22.1
71	31.6	27.6	41.4

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#21

Naphthalene-d8

Concen: 20.00 ng

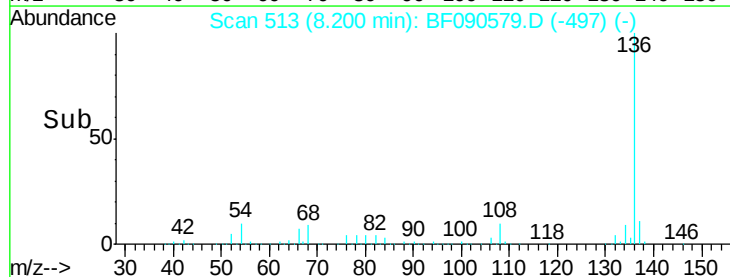
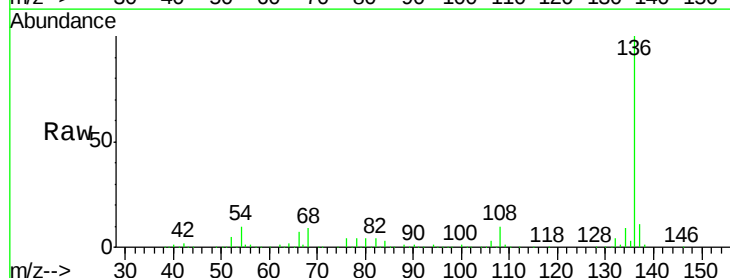
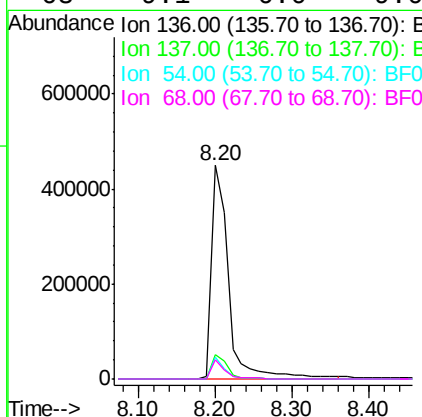
RT: 8.20 min Scan# 513

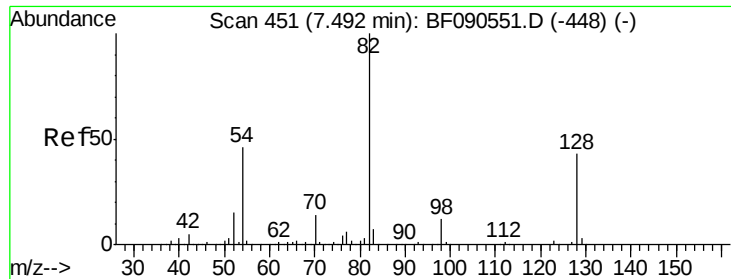
Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion:	136	Resp:	690601
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.8	13.2
54	10.4	6.8	10.2#
68	9.1	6.0	9.0#





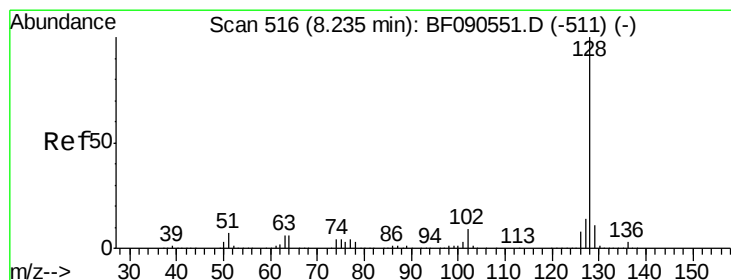
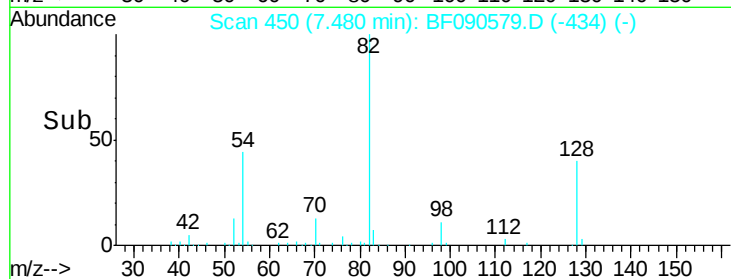
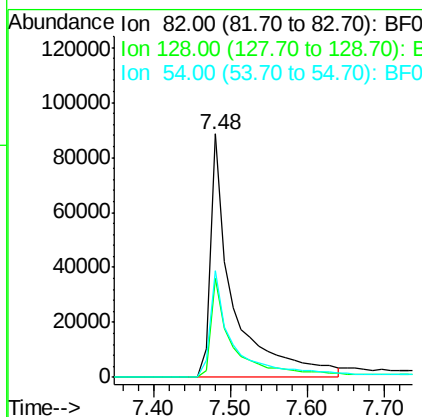
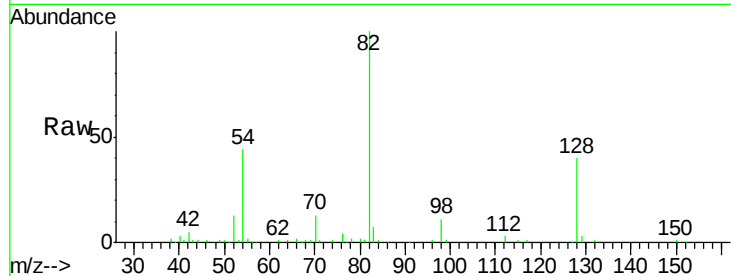
#23
Nitrobenzene-d5
Concen: 14.47 ng
RT: 7.48 min Scan# 450
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.4	34.3	51.5
54	43.6	37.0	55.6

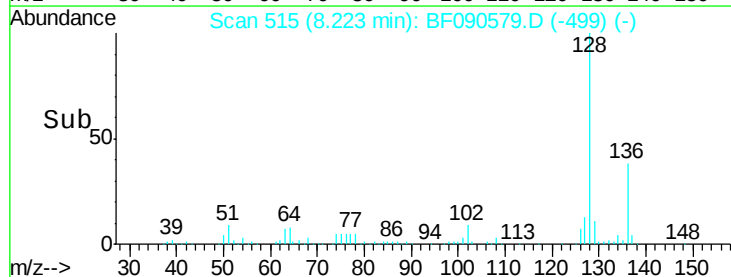
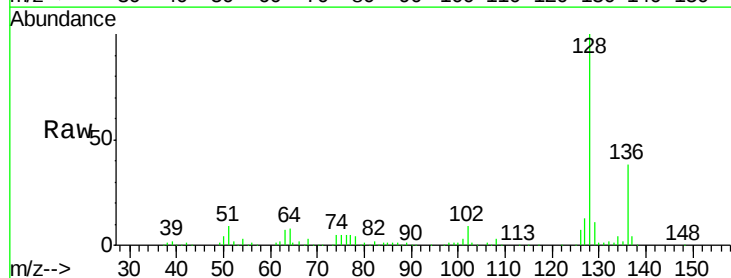
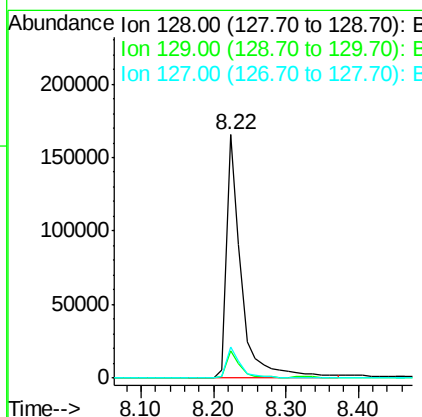
Manual Integrations
APPROVED

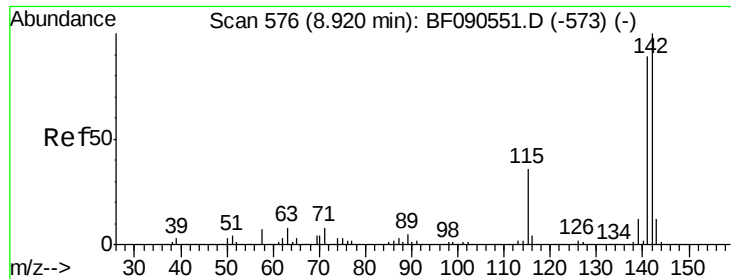
sohil
10/17/2016 6:37:26 PM



#31
Naphthalene
Concen: 6.67 ng
RT: 8.22 min Scan# 515
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	12.5	10.8	16.2





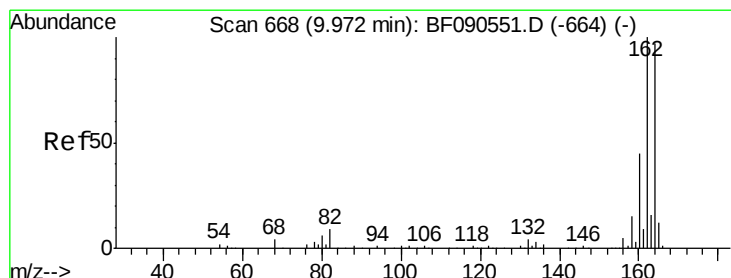
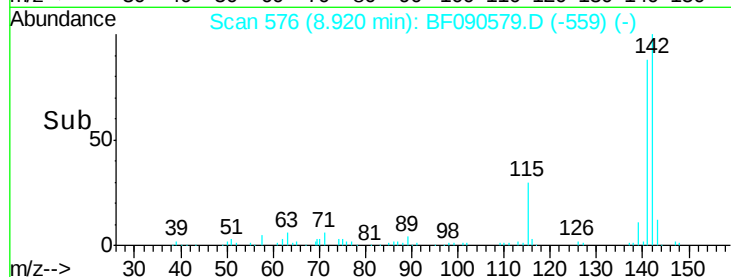
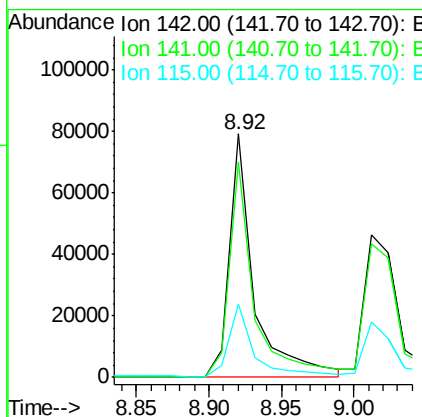
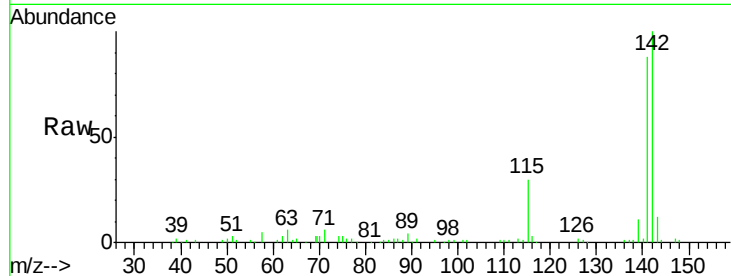
#37
2-Methylnaphthalene
Concen: 4.53 ng
RT: 8.92 min Scan# 576
Delta R.T. -0.00 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.3	106.9
115	30.4	28.8	43.2

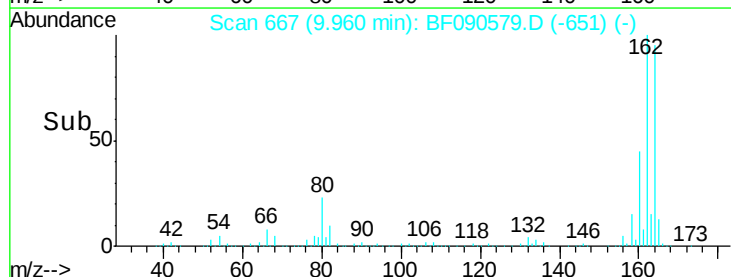
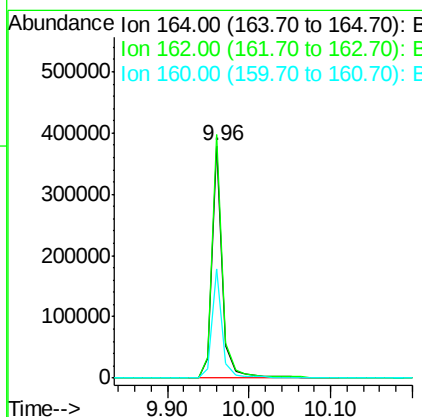
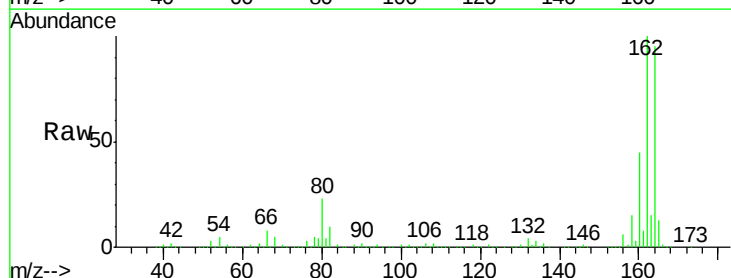
Manual Integrations
APPROVED

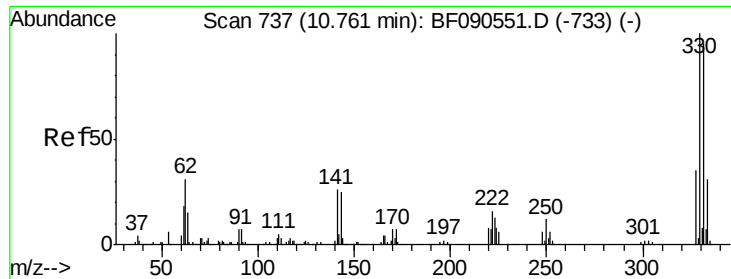
sohil
10/17/2016 6:37:26 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.96 min Scan# 667
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	82.2	123.4
160	46.8	36.6	55.0





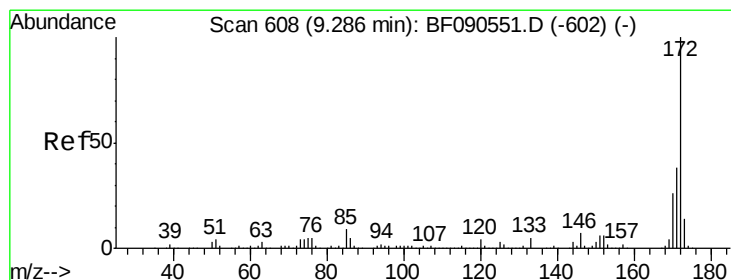
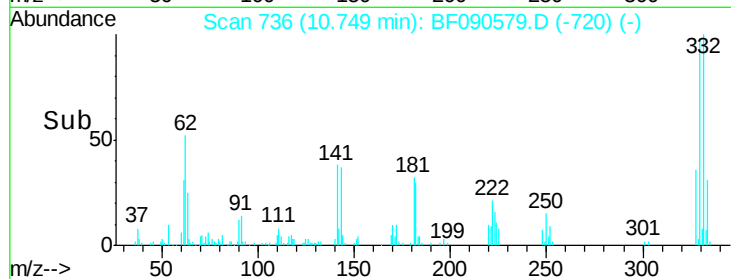
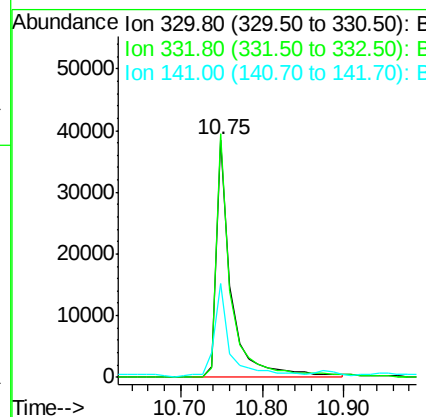
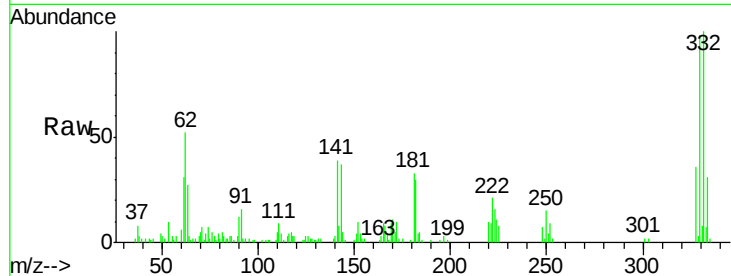
#41
 2,4,6-Tribromophenol
 Concen: 16.20 ng
 RT: 10.75 min Scan# 736
 Delta R.T. -0.01 min
 Lab File: BF090579.D
 Acq: 14 Oct 2016 19:45

Instrument :
 BNA_F
 ClientSampleId :
 NEWARK-POMPTON

Tot Ion	Ratio	Resp	Lower	Upper
330	100	50228		
332	99.6	76.2	114.2	
141	44.3	31.4	47.2	

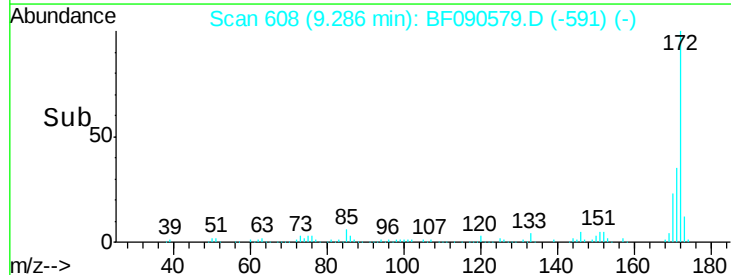
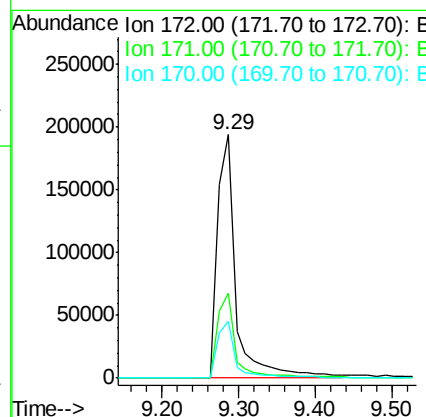
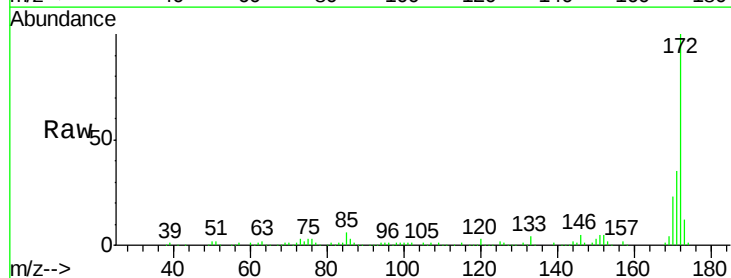
Manual Integrations
 APPROVED

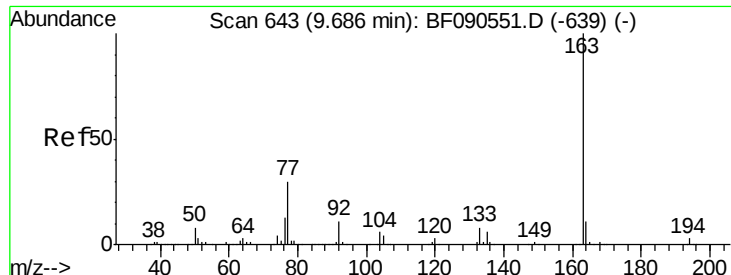
sohil
 10/17/2016 6:37:26 PM



#44
 2-Fluorobiphenyl
 Concen: 15.33 ng
 RT: 9.29 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF090579.D
 Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	323563		
171	34.7	30.1	45.1	
170	23.2	20.6	30.8	





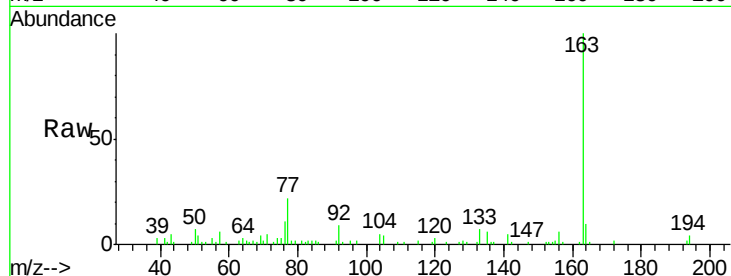
#49
Dimethylphthalate
Concen: 2.01 ng
RT: 9.67 min Scan# 642
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

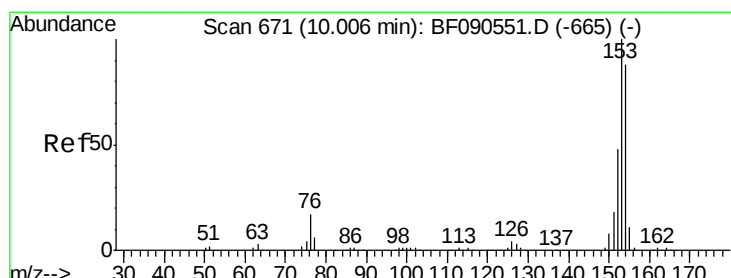
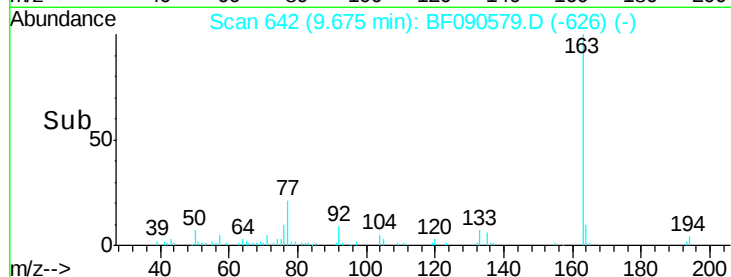
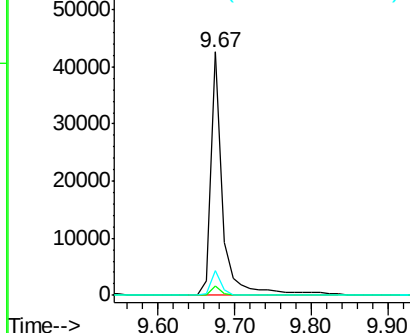
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.3	3.5#
164	10.2	8.6	13.0

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM

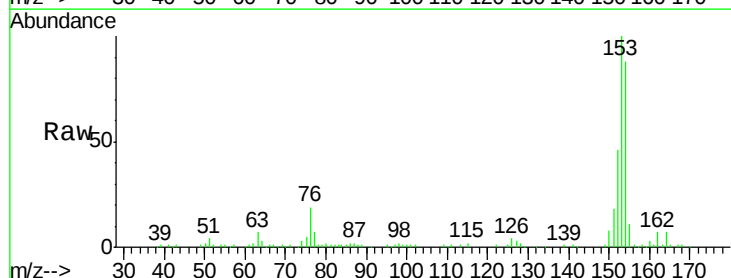


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

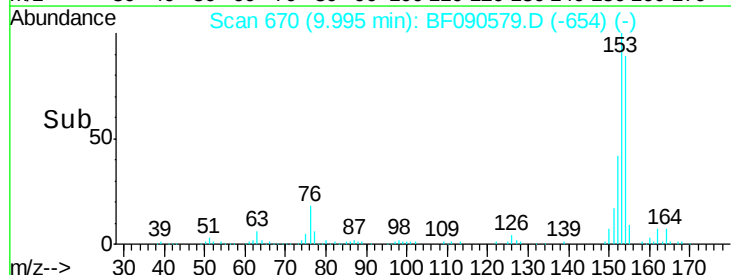
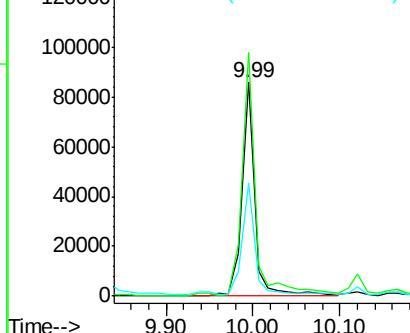


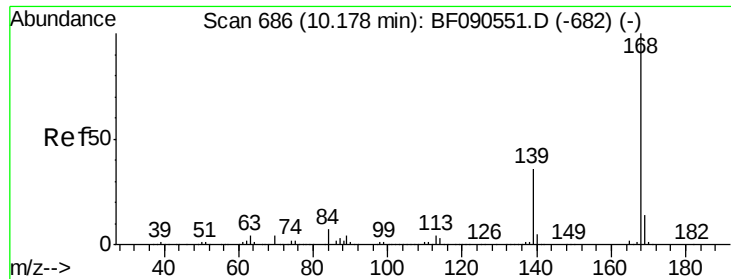
#51
Acenaphthene
Concen: 4.21 ng
RT: 9.99 min Scan# 670
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.2	136.8
152	52.7	44.0	66.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 3.13 ng

RT: 10.17 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

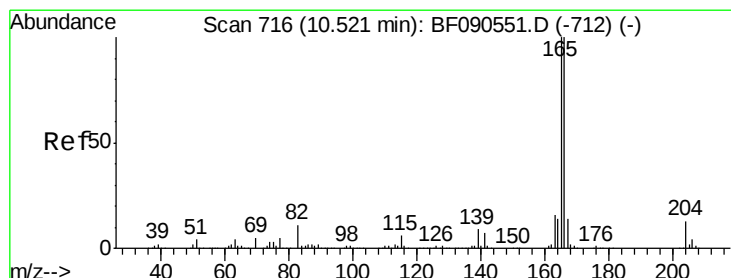
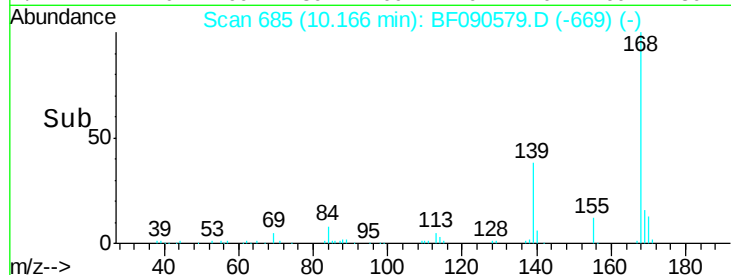
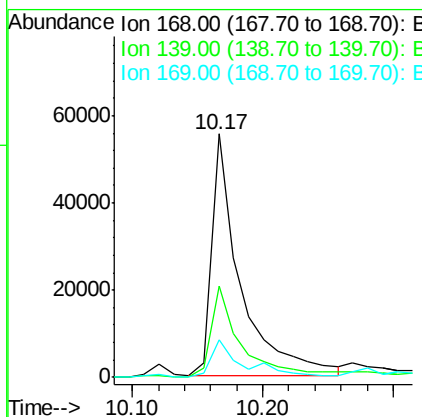
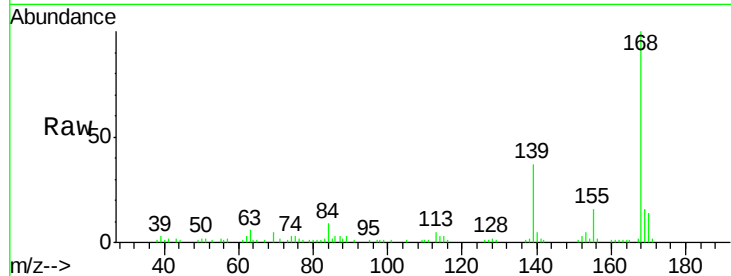
ClientSampleId :

NEWARK-POMPTON

Tot Ion:168	Resp:	86085
Ion Ratio	Lower	Upper
168	100	
139	37.3	30.5 45.7
169	15.6	10.9 16.3

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#57

Fluorene

Concen: 4.97 ng

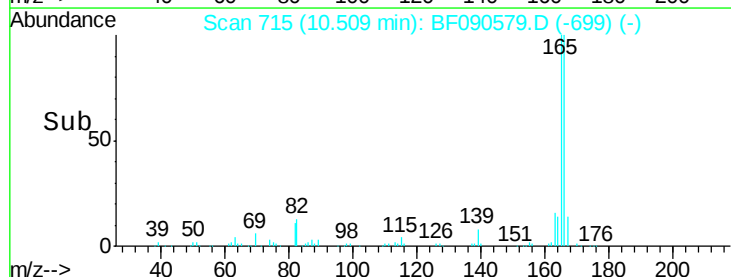
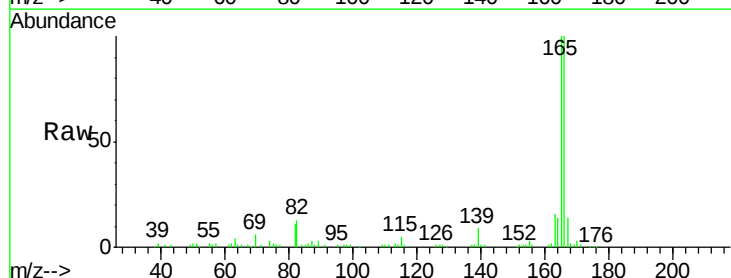
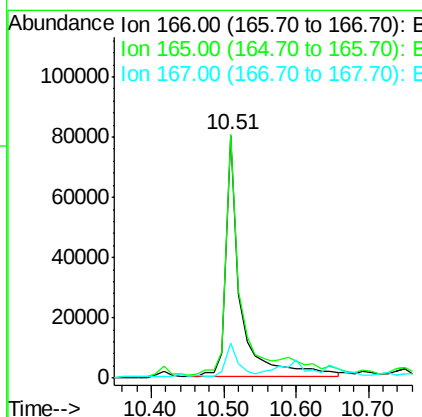
RT: 10.51 min Scan# 715

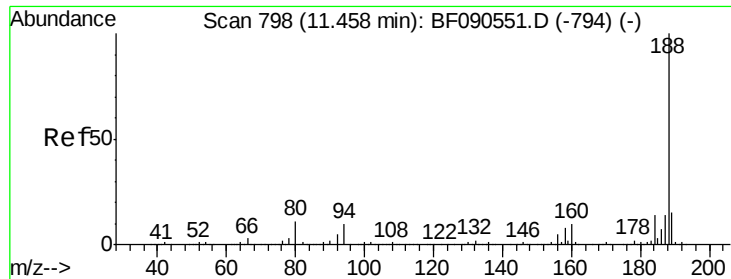
Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion:166	Resp:	112673
Ion Ratio	Lower	Upper
166	100	
165	100.3	79.9 119.9
167	14.3	10.9 16.3





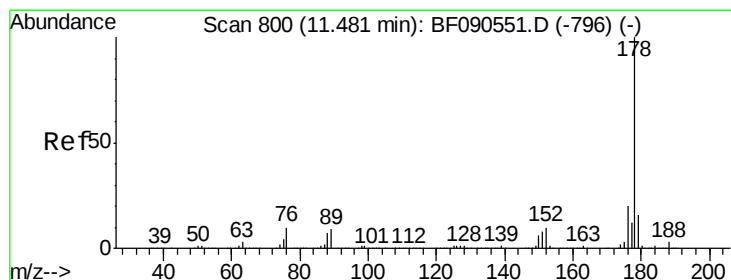
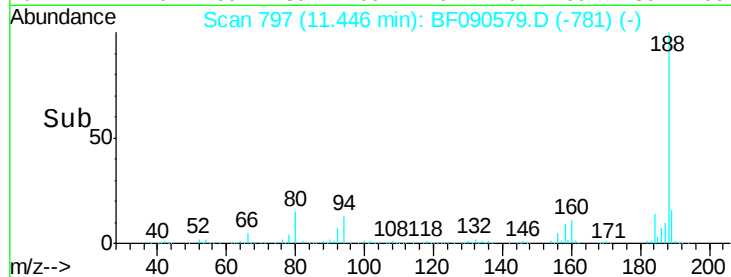
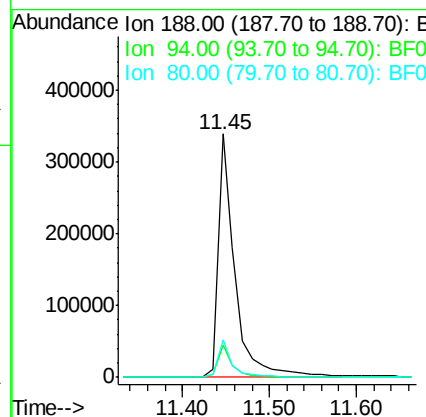
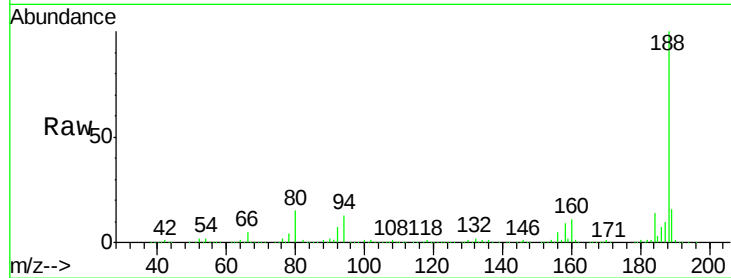
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.45 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	13.3	7.7	11.5#	
80	15.2	8.6	12.8#	

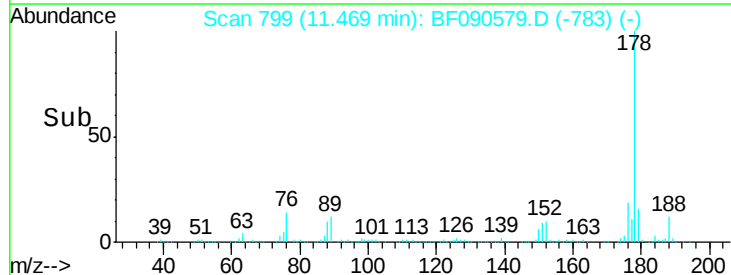
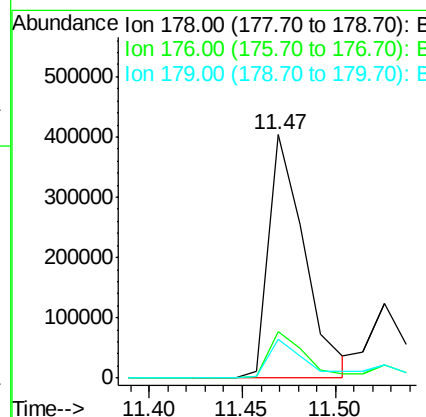
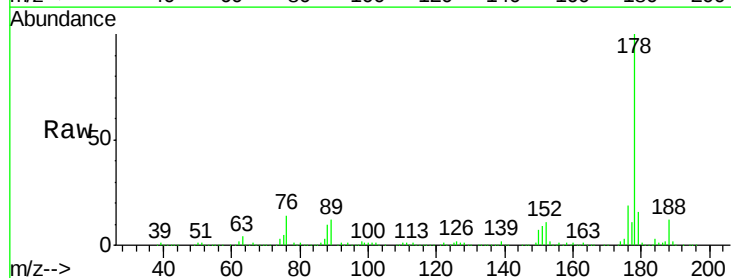
Manual Integrations
APPROVED

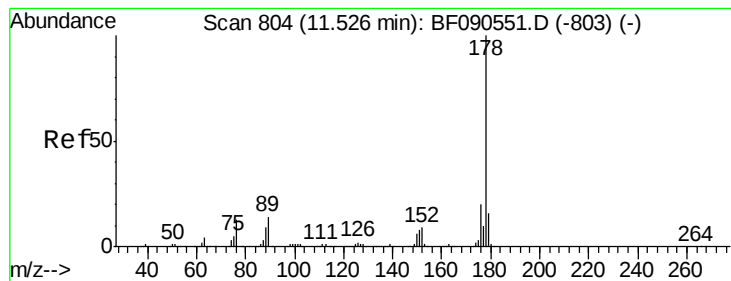
sohil
10/17/2016 6:37:26 PM



#70
Phenanthrene
Concen: 21.87 ng
RT: 11.47 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.2	16.1	24.1	
179	15.7	12.6	19.0	





#71

Anthracene

Concen: 8.08 ng

RT: 11.53 min Scan# 804

Delta R.T. -0.00 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

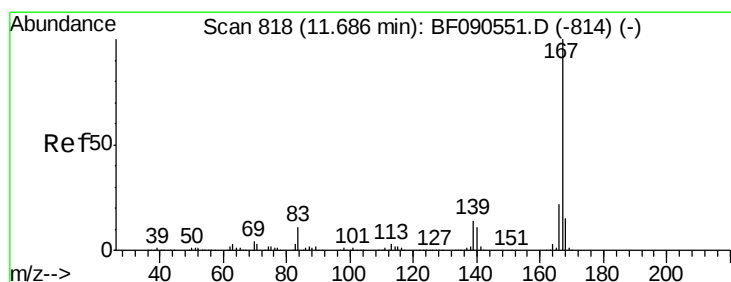
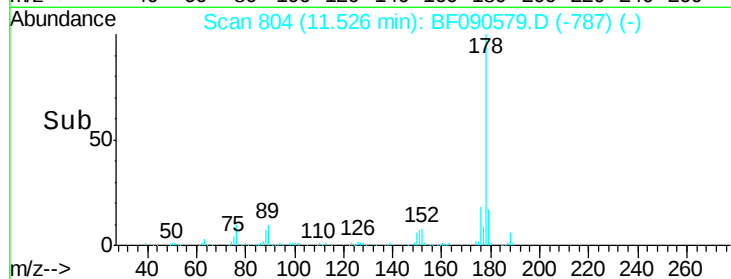
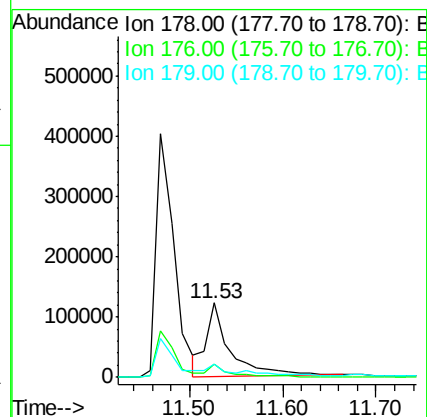
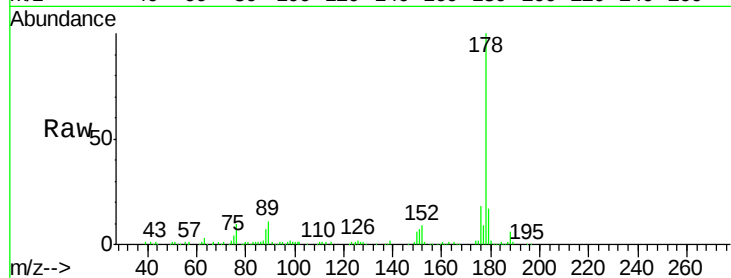
ClientSampleId :

NEWARK-POMPTON

Tot Ion:178	Resp:	212853
Ion Ratio	Lower	Upper
178	100	
176	18.4	15.5 23.3
179	16.9	13.0 19.4

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#72

Carbazole

Concen: 2.12 ng

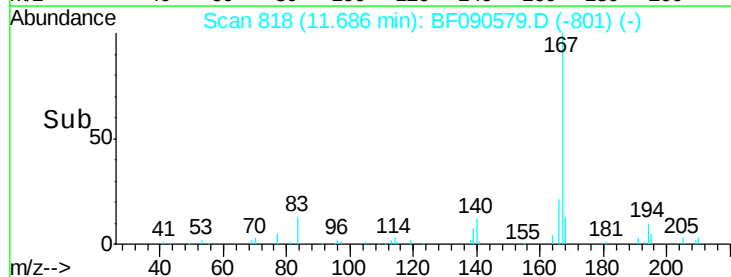
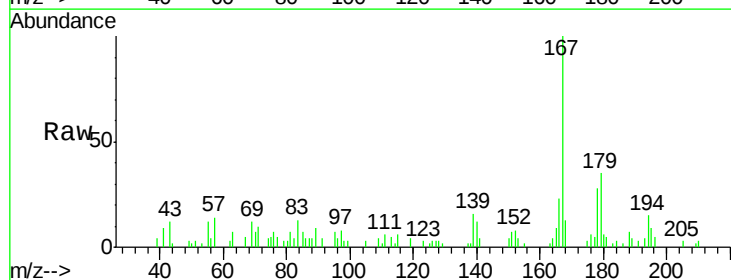
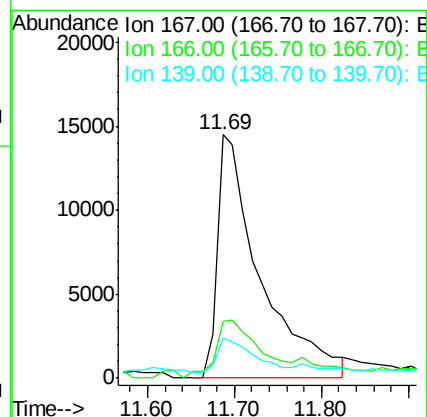
RT: 11.69 min Scan# 818

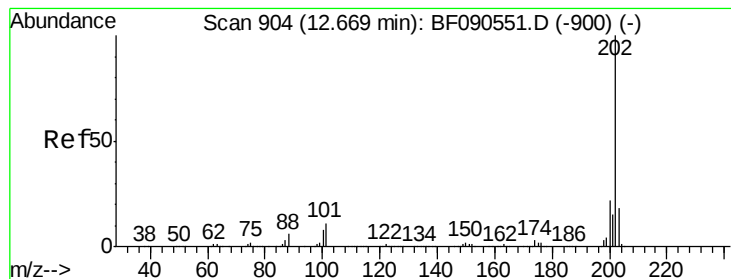
Delta R.T. -0.00 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion:167	Resp:	49906
Ion Ratio	Lower	Upper
167	100	
166	23.3	17.8 26.8
139	16.4	11.3 16.9





#74

Fluoranthene

Concen: 21.60 ng

RT: 12.66 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

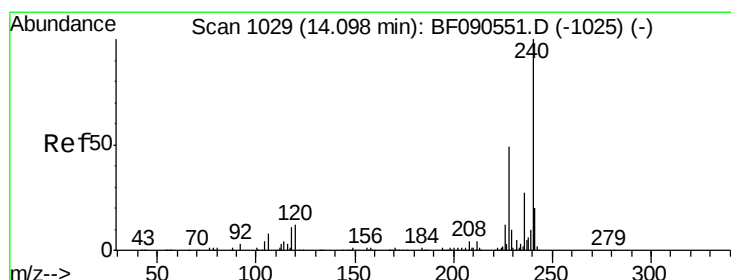
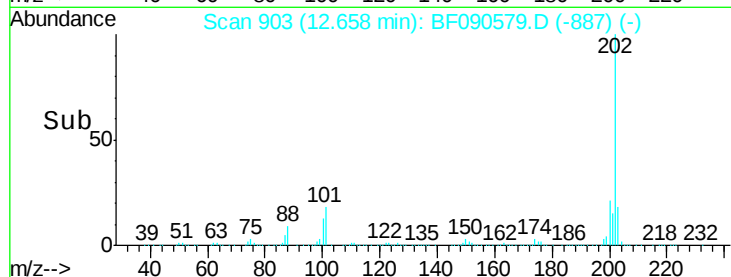
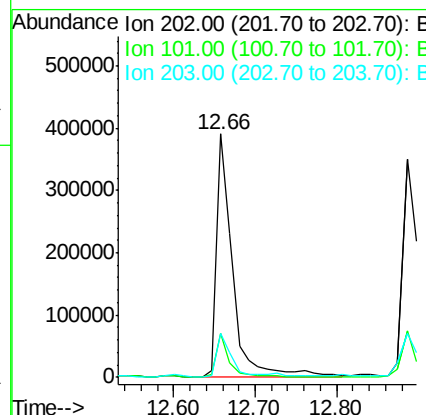
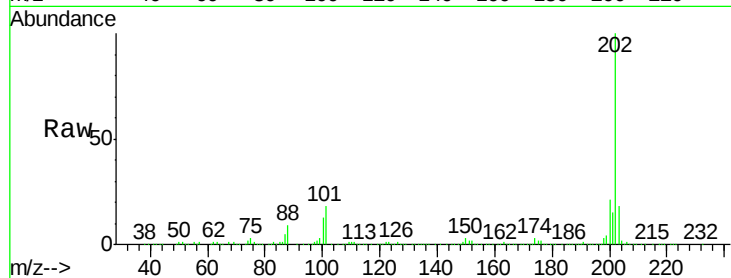
ClientSampleId :

NEWARK-POMPTON

Tot Ion	Ratio	Resp	Lower	Upper
202	100	532135		
101	18.1	0.0	31.1	
203	17.8	0.0	38.0	

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#75

Chrysene-d12

Concen: 20.00 ng

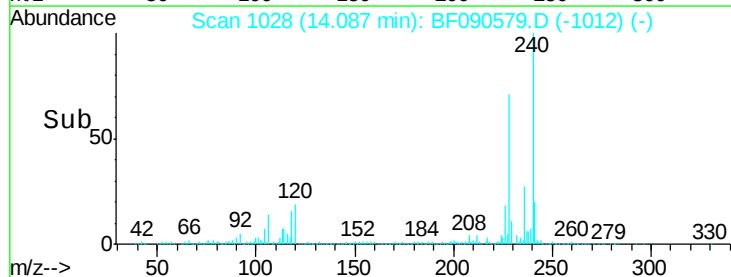
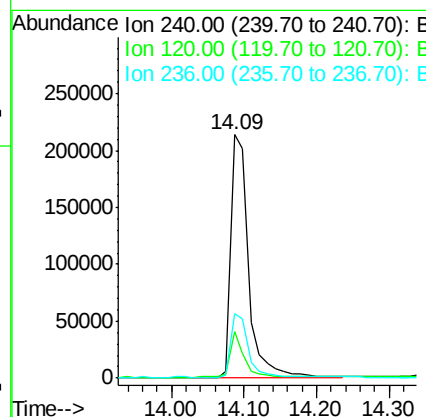
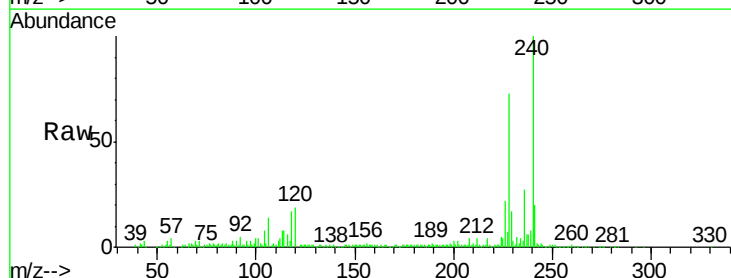
RT: 14.09 min Scan# 1028

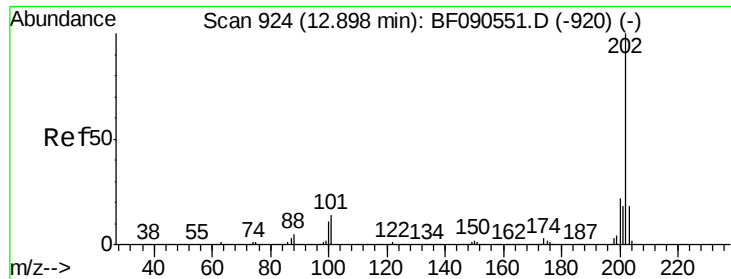
Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	363080		
120	19.0	9.8	14.8#	
236	26.7	21.7	32.5	





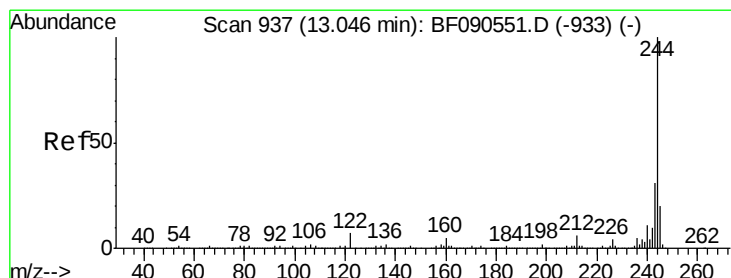
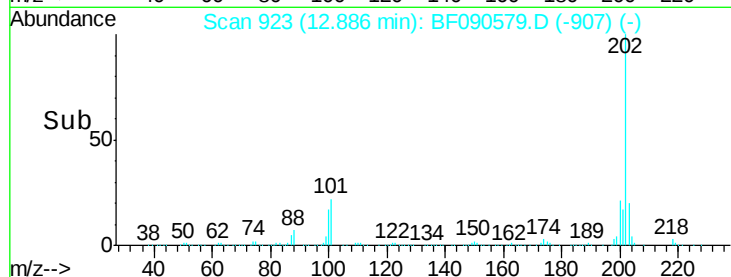
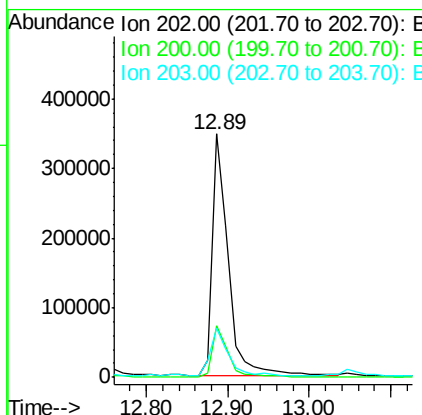
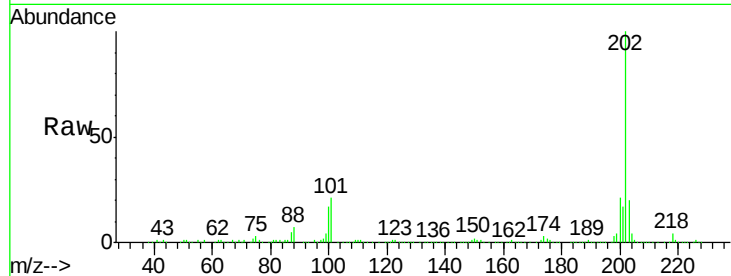
#77
Pvrene
Concen: 19.71 ng
RT: 12.89 min Scan# 923
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.8	26.6
203	20.0	14.6	21.8

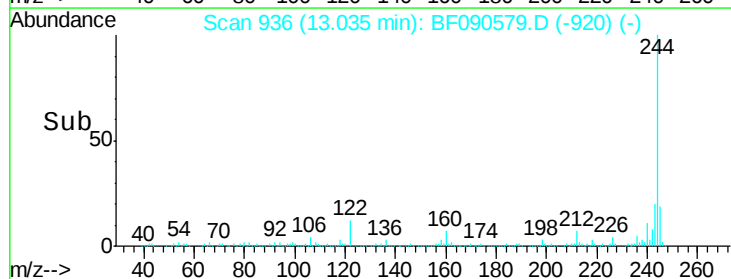
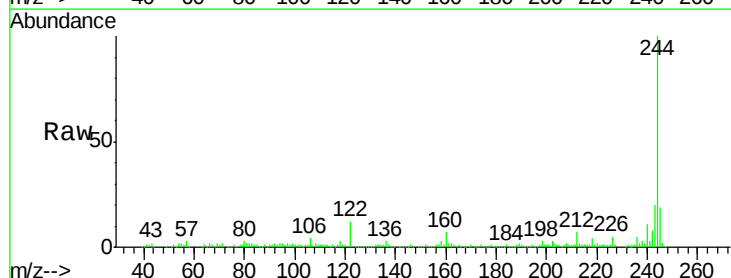
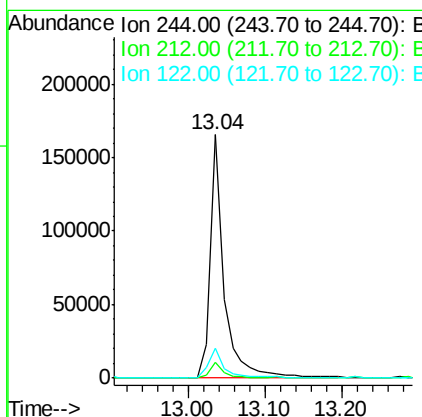
Manual Integrations
APPROVED

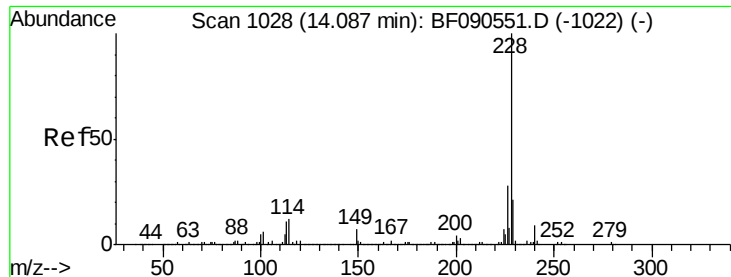
sohil
10/17/2016 6:37:26 PM



#78
Terphenyl-d14
Concen: 13.26 ng
RT: 13.04 min Scan# 936
Delta R.T. -0.01 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.0	7.4
122	12.1	5.6	8.4#





#80

Benzo(a)anthracene

Concen: 11.57 ng m

RT: 14.09 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

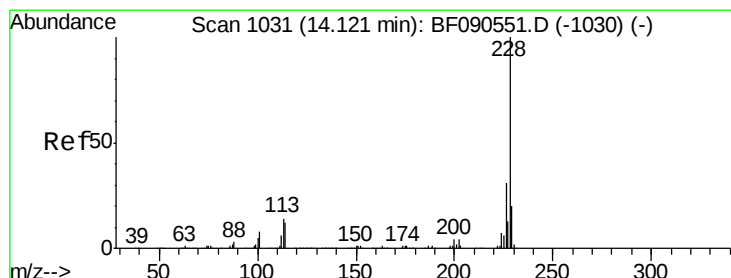
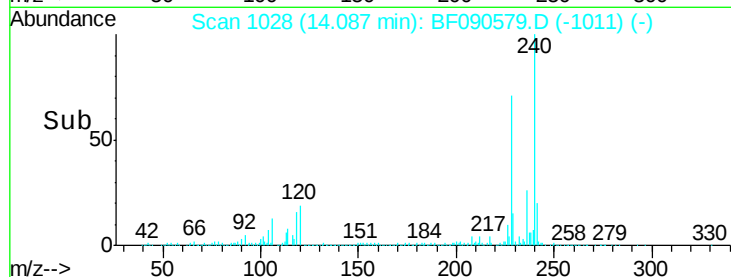
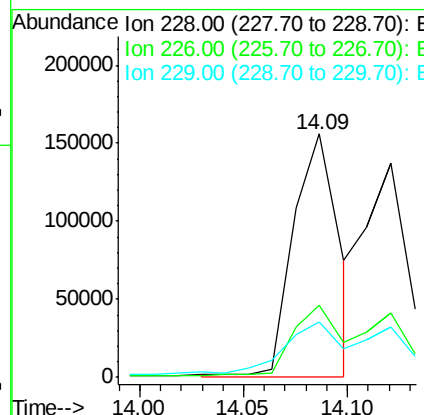
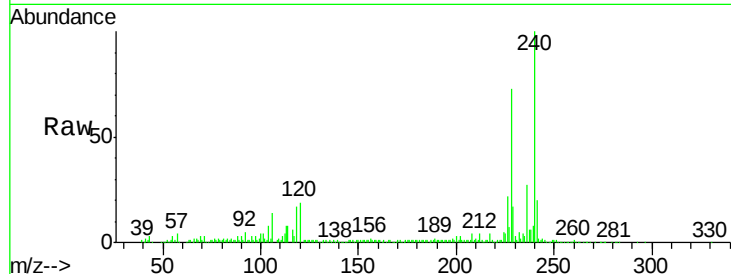
ClientSampleId :

NEWARK-POMPTON

Tot Ion:	228	Resp:	239105
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.8	34.2
229	22.8	16.6	25.0

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#82

Chrysene

Concen: 11.22 ng m

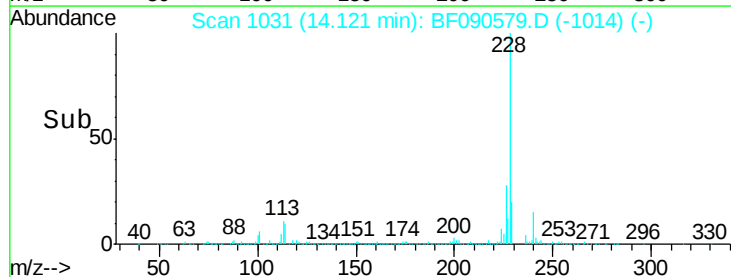
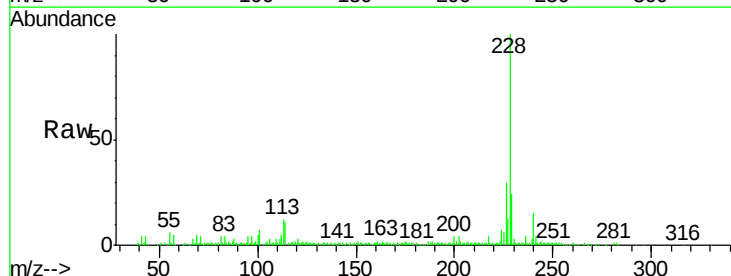
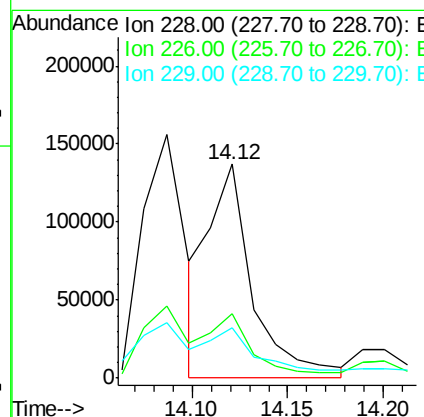
RT: 14.12 min Scan# 1031

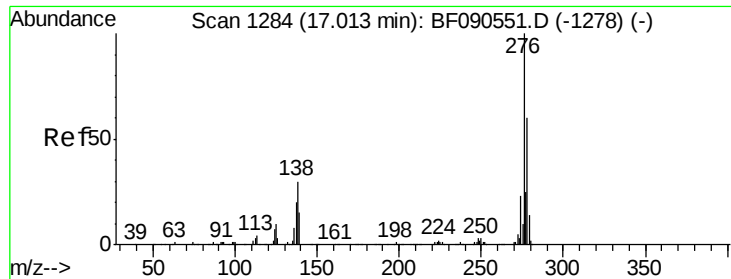
Delta R.T. -0.00 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion:	228	Resp:	223502
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.8	37.2
229	23.5	16.2	24.4





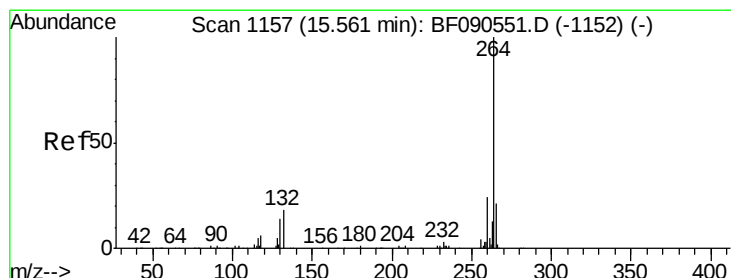
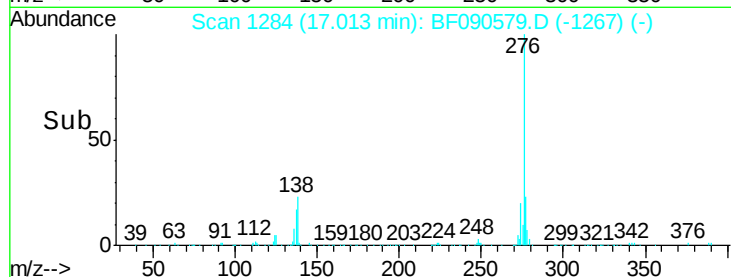
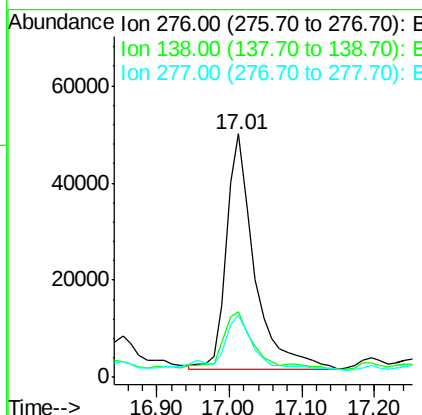
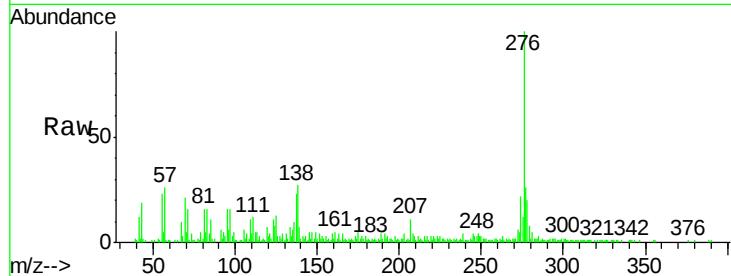
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.15 ng
 RT: 17.01 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BF090579.D
 Acq: 14 Oct 2016 19:45

Instrument :
 BNA_F
 ClientSampleId :
 NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.7	25.8	38.6
277	26.5	20.1	30.1

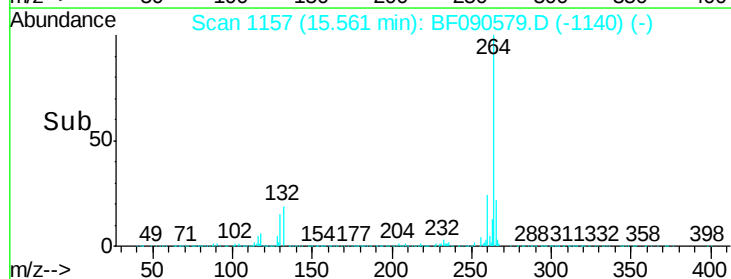
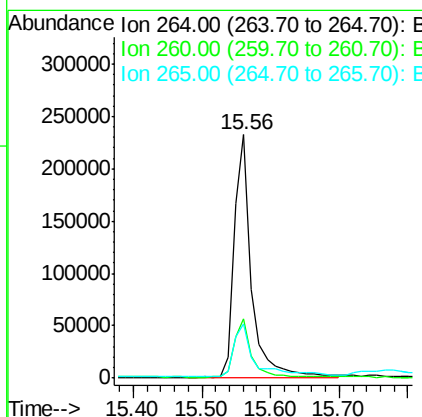
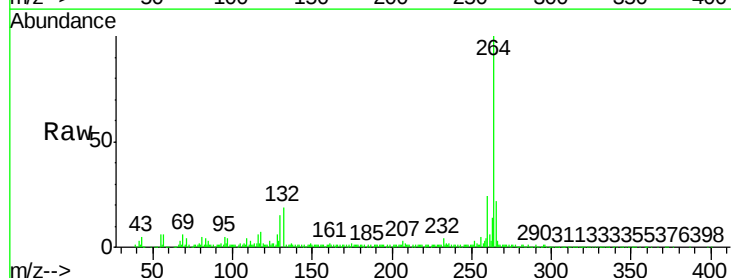
Manual Integrations
 APPROVED

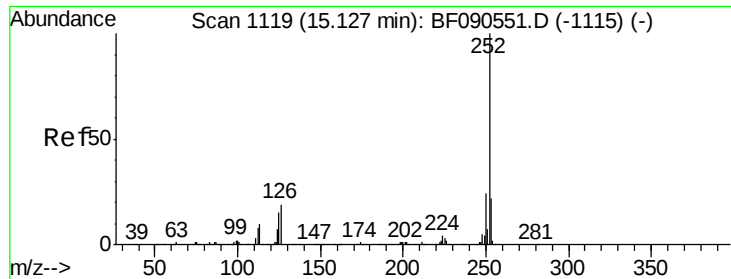
sohil
 10/17/2016 6:37:26 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.56 min Scan# 1157
 Delta R.T. -0.00 min
 Lab File: BF090579.D
 Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.3	28.9
265	22.2	16.7	25.1





#87

Benzo(b)fluoranthene

Concen: 10.93 ng m

RT: 15.13 min Scan# 1119

Delta R.T. -0.00 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Instrument :

BNA_F

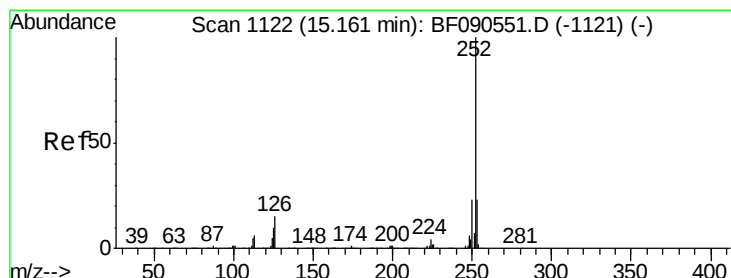
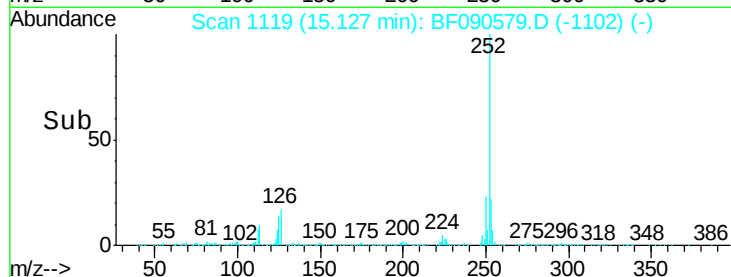
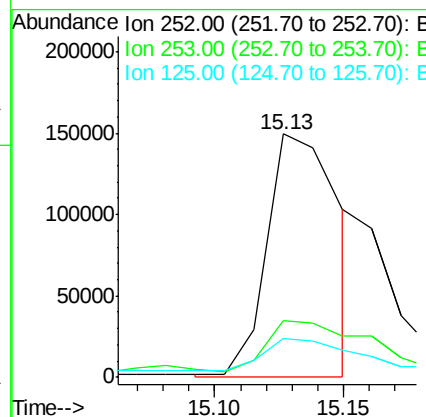
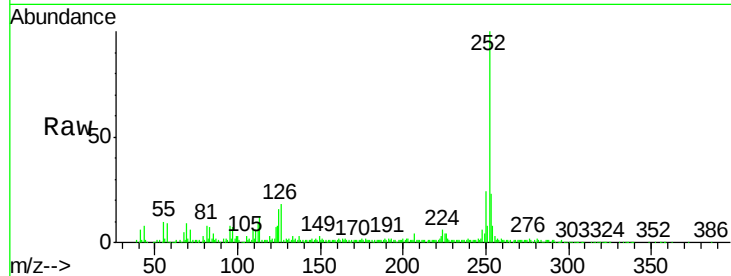
ClientSampleId :

NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	15.9	12.0	18.0

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#88

Benzo(k)fluoranthene

Concen: 4.25 ng m

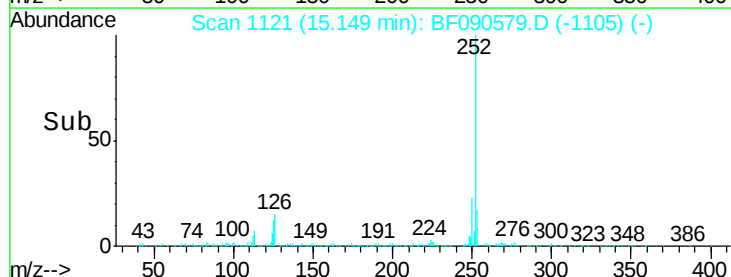
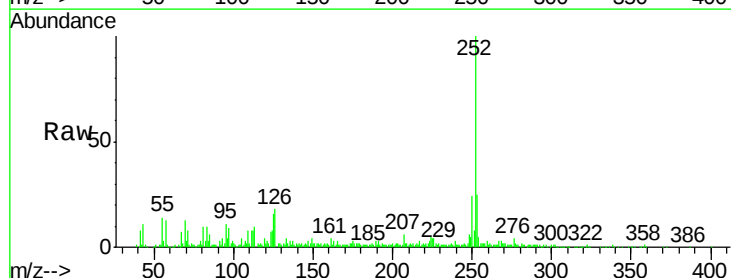
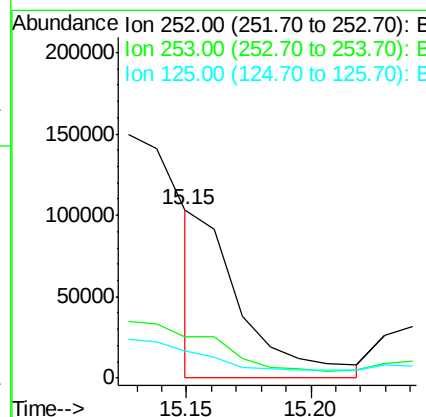
RT: 15.15 min Scan# 1121

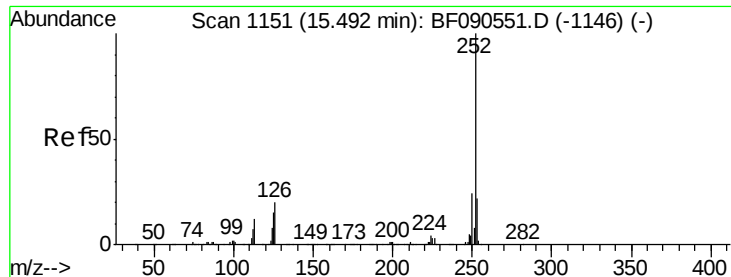
Delta R.T. -0.01 min

Lab File: BF090579.D

Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.0	27.0
125	16.2	10.0	15.0





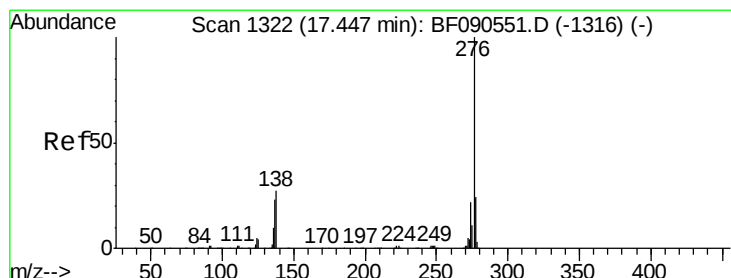
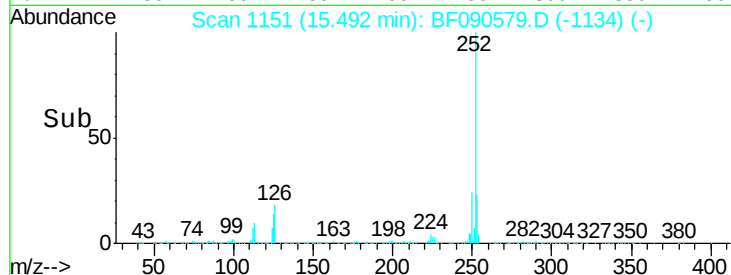
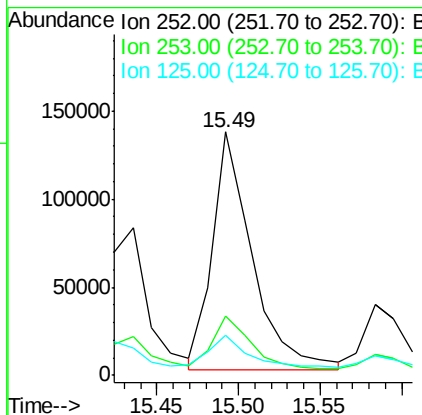
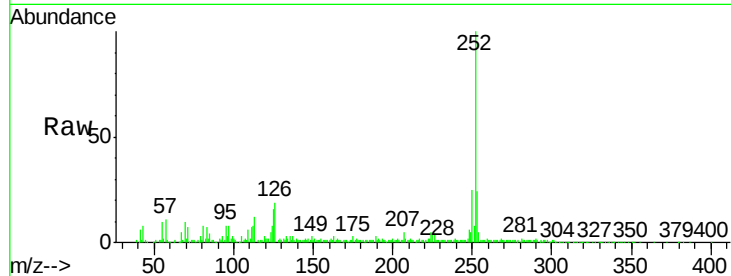
#89
Benzo(a)pyrene
Concen: 9.39 ng
RT: 15.49 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Instrument :
BNA_F
ClientSampleId :
NEWARK-POMPTON

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	16.4	12.3	18.5

Manual Integrations
APPROVED

sohil
10/17/2016 6:37:26 PM



#91
Benzo(g,h,i)perylene
Concen: 6.82 ng
RT: 17.45 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BF090579.D
Acq: 14 Oct 2016 19:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.8	28.2
138	26.8	21.8	32.8

