

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050416\
 Data File : BF086690.D
 Acq On : 4 May 2016 21:37
 Operator : UM/SJ
 Sample : H2715-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-3-CS-2(0-12FTBGS)

Manual Integrations
 APPROVED

sohil
 5/5/2016 3:20:10 PM

Quant Time: May 05 04:51:51 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	162572	40.00	ng	0.00
21) Naphthalene-d8	8.03	136	607773	40.00	ng	0.00
38) Acenaphthene-d10	9.78	164	251035	40.00	ng	0.00
63) Phenanthrene-d10	11.25	188	366502m	40.00	ng	0.00
75) Chrysene-d12	13.89	240	336840	40.00	ng	0.01
86) Perylene-d12	15.29	264	277167	40.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1222077	124.45	ng	0.01
7) Phenol-d6	6.38	99	1483378	112.14	ng	0.01
23) Nitrobenzene-d5	7.31	82	1157202	97.84	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	294610	119.97	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1404881	91.74	ng	0.00
78) Terphenyl-d14	12.84	244	892893	53.57	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.49	163	136619	7.30	ng	100
57) Fluorene	10.32	166	35683	2.29	ng	# 97
70) Phenanthrene	11.28	178	459296	23.33	ng	100
71) Anthracene	11.33	178	78282	3.80	ng	99
74) Fluoranthene	12.47	202	460033	23.32	ng	95
77) Pyrene	12.69	202	445821	16.60	ng	99
80) Benzo(a)anthracene	13.88	228	175780	9.23	ng	95
82) Chrysene	13.92	228	180335	8.87	ng	97
85) Indeno(1,2,3-cd)pyrene	16.60	276	57464	3.30	ng	# 90
87) Benzo(b)fluoranthene	14.89	252	191731m	11.51	ng	
88) Benzo(k)fluoranthene	14.91	252	47280m	3.01	ng	
89) Benzo(a)pyrene	15.22	252	117507	7.66	ng	# 86
91) Benzo(a,h,i)perylene	17.00	276	54055	3.49	ng	95

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

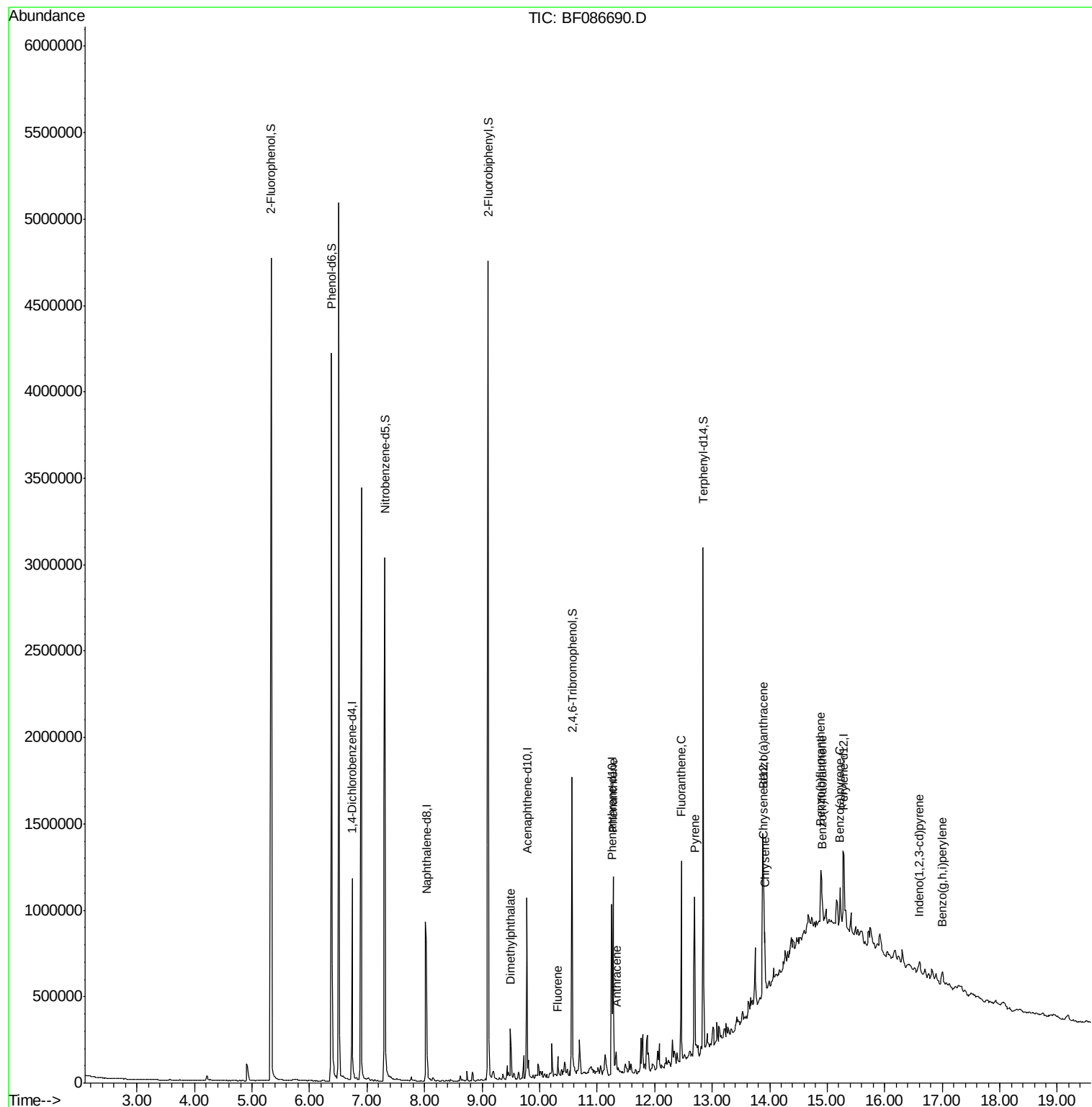
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050416\
Data File : BF086690.D
Acq On : 4 May 2016 21:37
Operator : UM/SJ
Sample : H2715-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

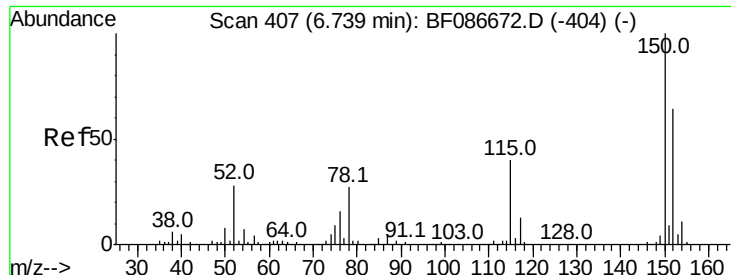
Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM

Quant Time: May 05 04:51:51 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 04 15:12:53 2016
Response via : Initial Calibration





#1

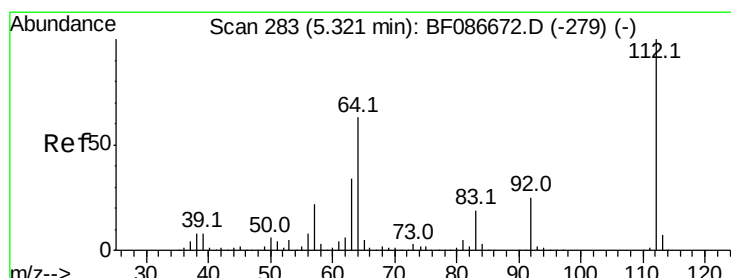
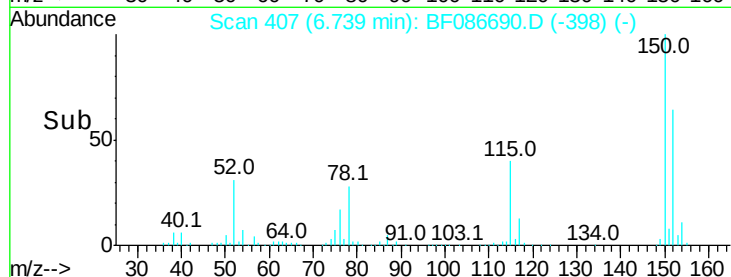
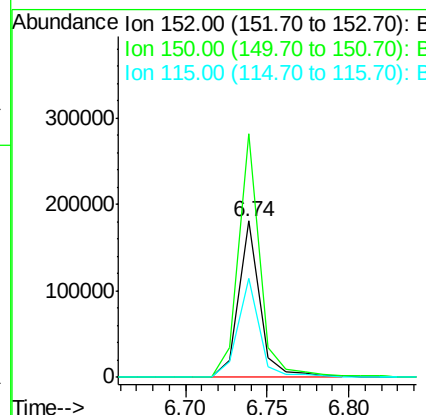
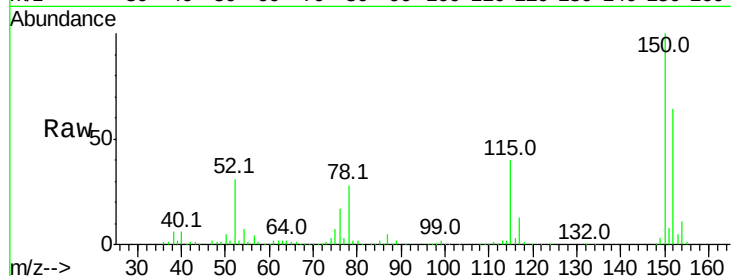
1,4-Dichlorobenzene-d4
Concen: 40.00 ng
RT: 6.74 min Scan# 407
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	162572		
150	155.9	125.8	188.6	
115	63.1	51.5	77.3	

Manual Integrations
APPROVED

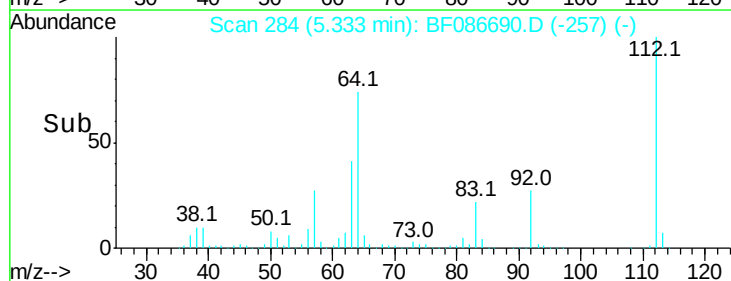
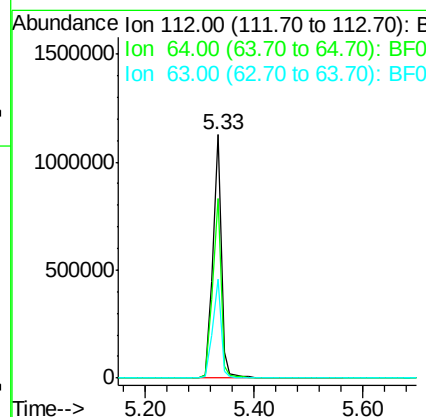
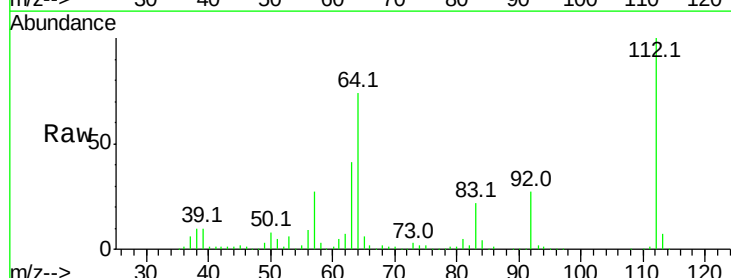
sohil
5/5/2016 3:20:10 PM

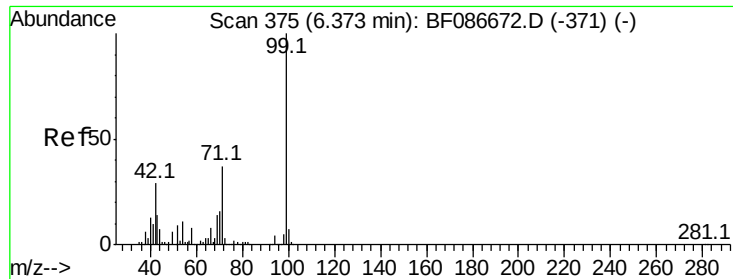


#5

2-Fluorophenol
Concen: 124.45 ng
RT: 5.33 min Scan# 284
Delta R.T. 0.01 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1222077		
64	73.6	52.1	78.1	
63	40.6	25.7	38.5	





#7

Phenol-d6

Concen: 112.14 ng

RT: 6.38 min Scan# 376

Delta R.T. 0.01 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Instrument :

BNA_F

ClientSampleId :

26WARD-3-CS-2(0-12FTBGS)

Tot Ion: 99 Resp: 1483378

Ion Ratio Lower Upper

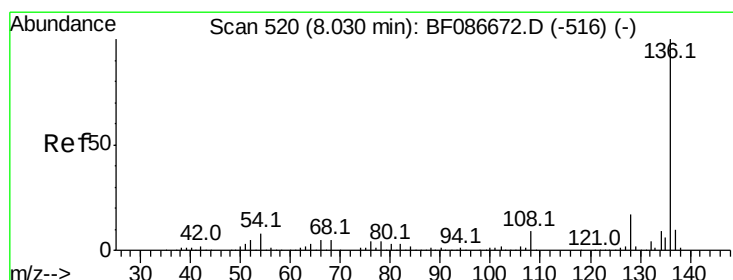
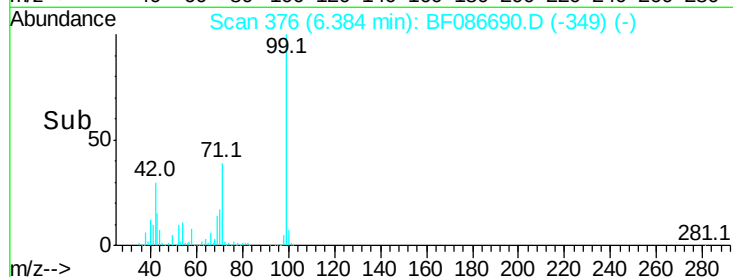
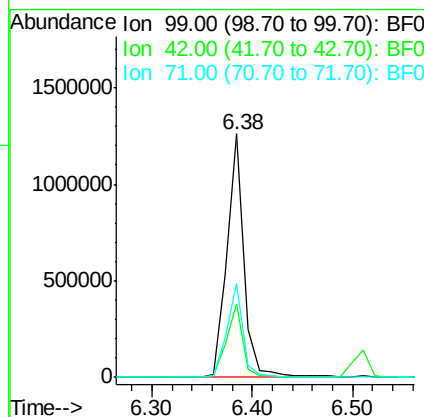
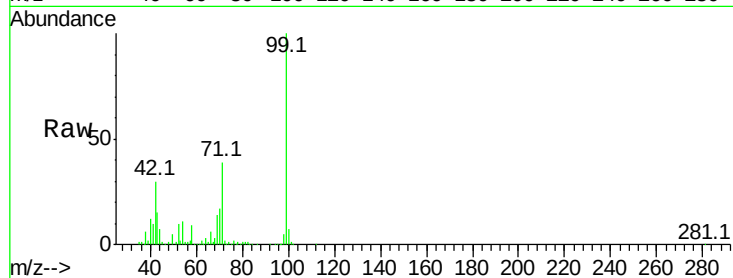
99 100

42 29.9 13.6 20.4#

71 38.7 24.6 36.8#

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM



#21

Naphthalene-d8

Concen: 40.00 ng

RT: 8.03 min Scan# 520

Delta R.T. 0.00 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Tgt Ion: 136 Resp: 607773

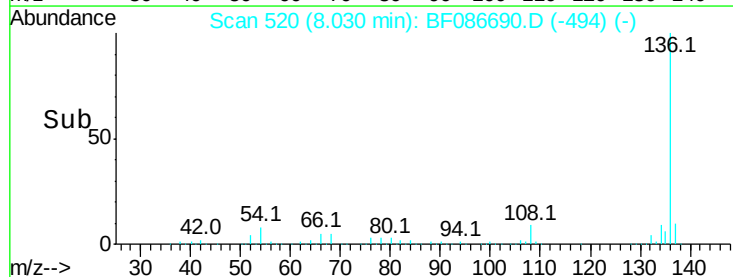
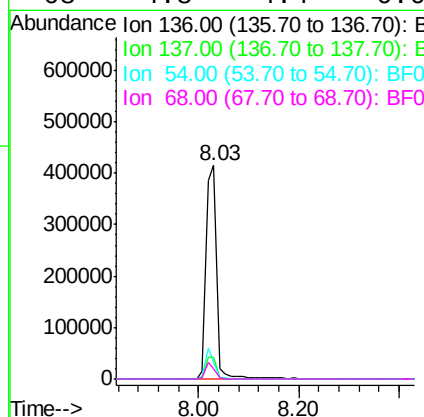
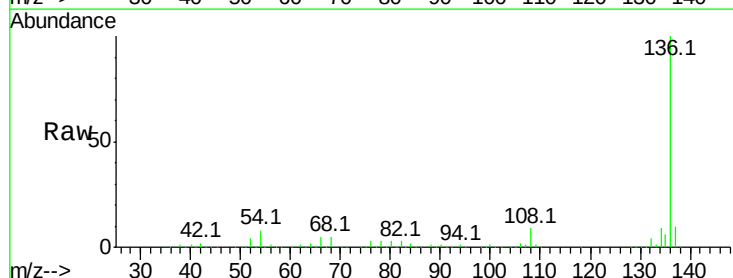
Ion Ratio Lower Upper

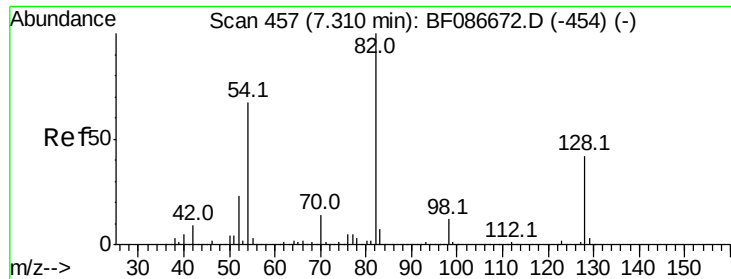
136 100

137 10.5 8.8 13.2

54 7.9 5.0 7.4#

68 4.8 4.4 6.6





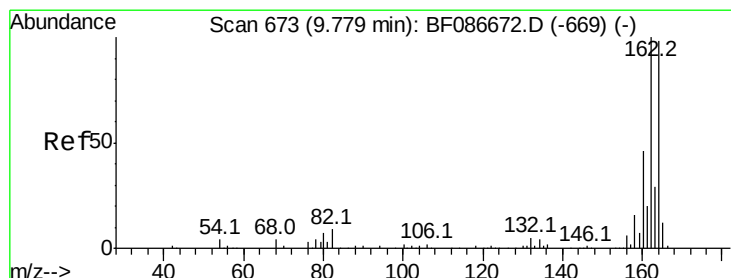
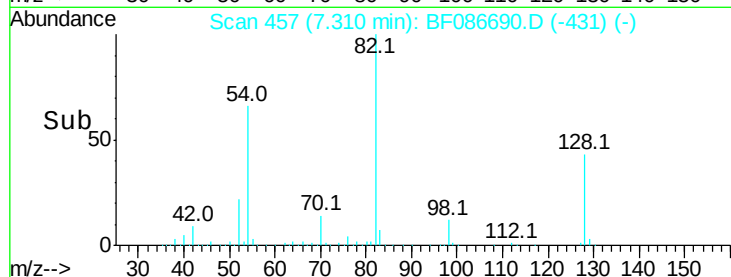
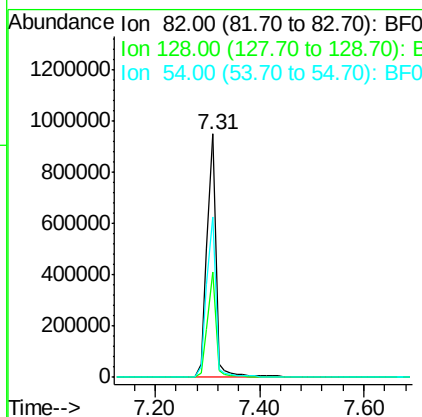
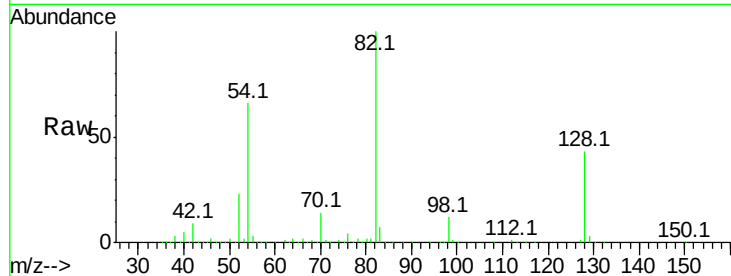
#23
 Nitrobenzene-d5
 Concen: 97.84 ng
 RT: 7.31 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: BF086690.D
 Acq: 4 May 2016 21:37

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.1	40.6	61.0
54	65.6	38.1	57.1

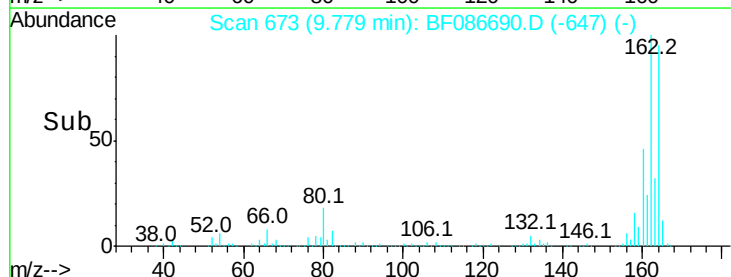
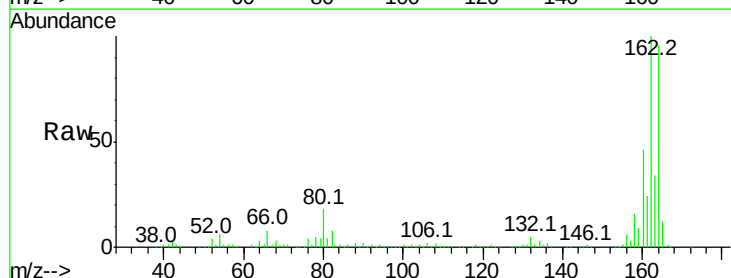
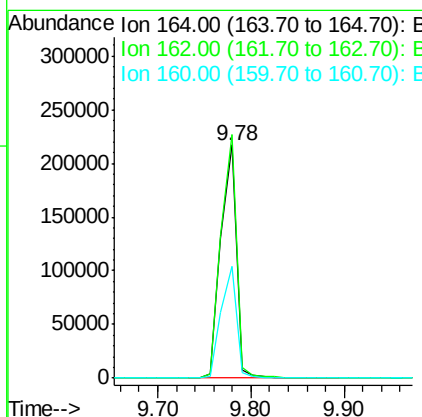
Manual Integrations
 APPROVED

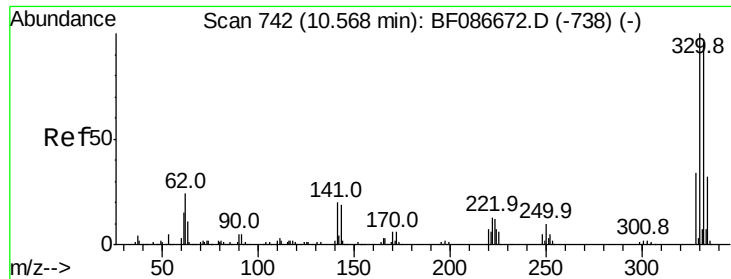
sohil
 5/5/2016 3:20:10 PM



#38
 Acenaphthene-d10
 Concen: 40.00 ng
 RT: 9.78 min Scan# 673
 Delta R.T. 0.00 min
 Lab File: BF086690.D
 Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.8	124.2
160	47.8	36.9	55.3





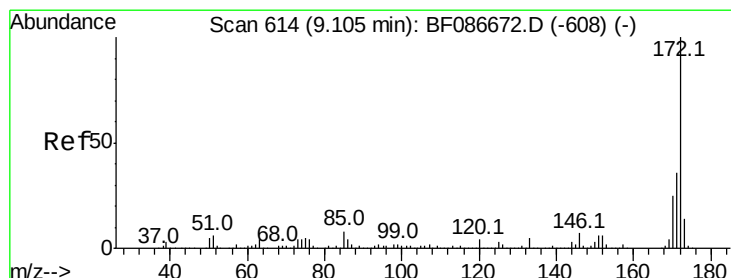
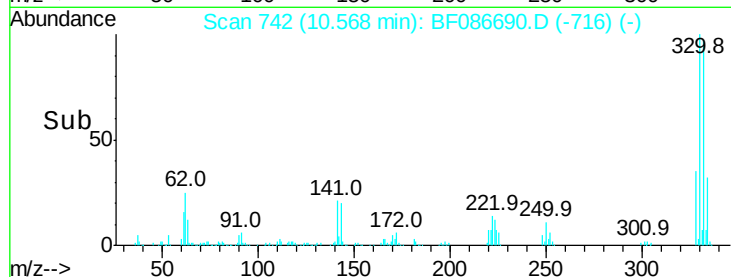
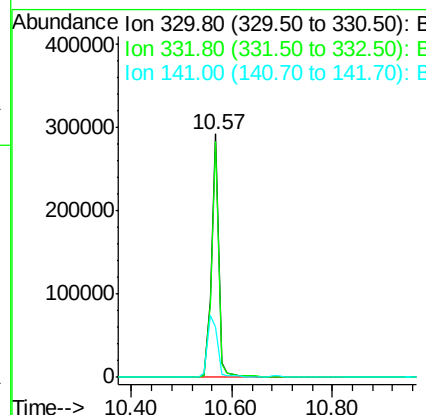
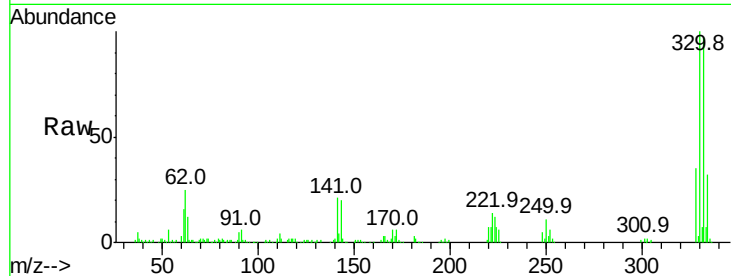
#41
 2,4,6-Tribromophenol
 Concen: 119.97 ng
 RT: 10.57 min Scan# 742
 Delta R.T. 0.00 min
 Lab File: BF086690.D
 Acq: 4 May 2016 21:37

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	294610		
332	95.8	79.0	118.4	
141	34.4	31.2	46.8	

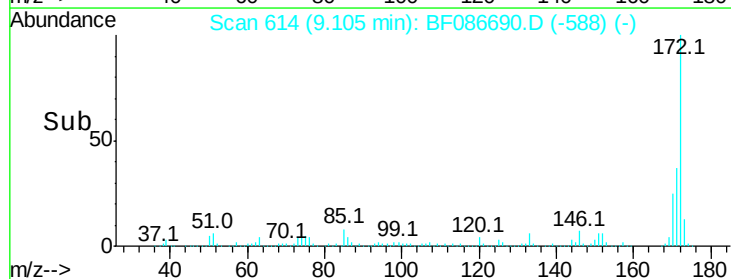
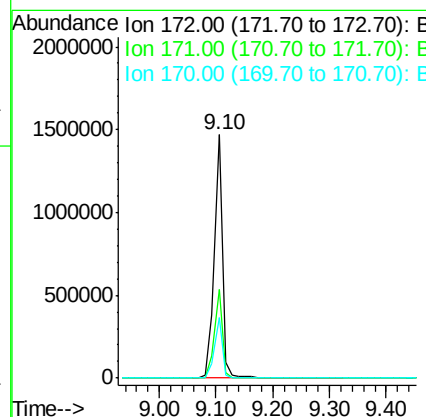
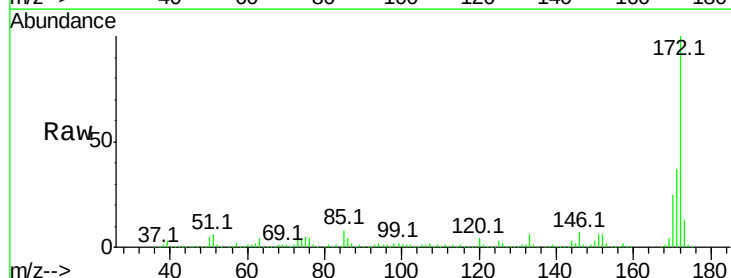
Manual Integrations
 APPROVED

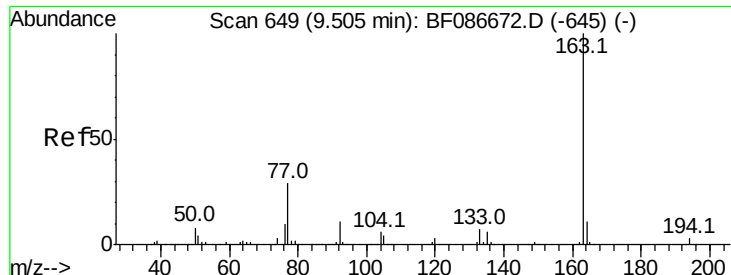
sohil
 5/5/2016 3:20:10 PM



#44
 2-Fluorobiphenyl
 Concen: 91.74 ng
 RT: 9.10 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: BF086690.D
 Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1404881		
171	36.5	29.0	43.6	
170	24.8	19.8	29.8	





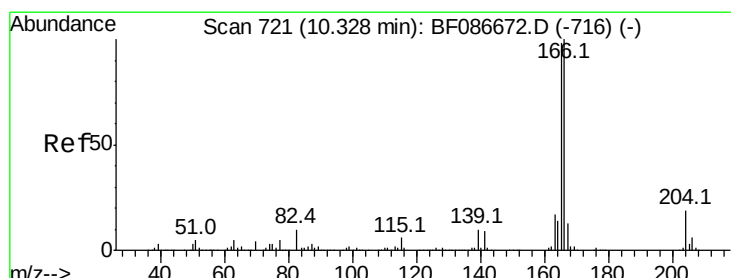
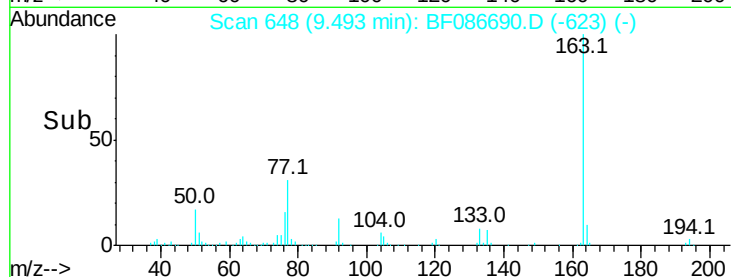
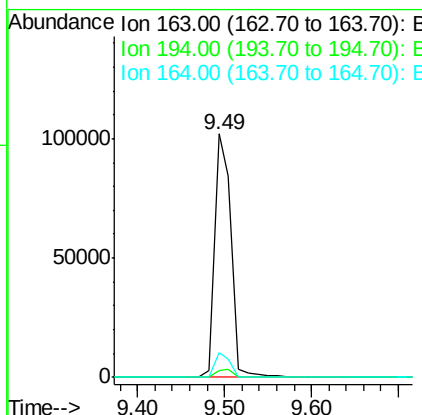
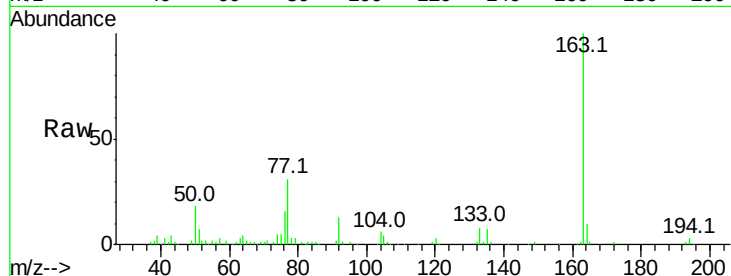
#49
Dimethylphthalate
Concen: 7.30 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	2.8	2.6	4.0	
164	10.3	8.2	12.4	

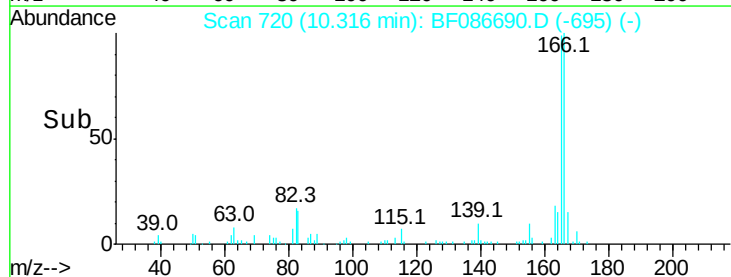
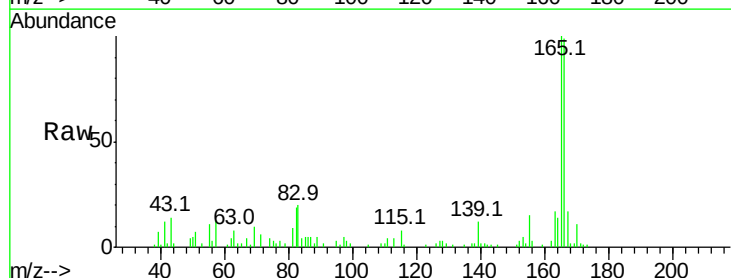
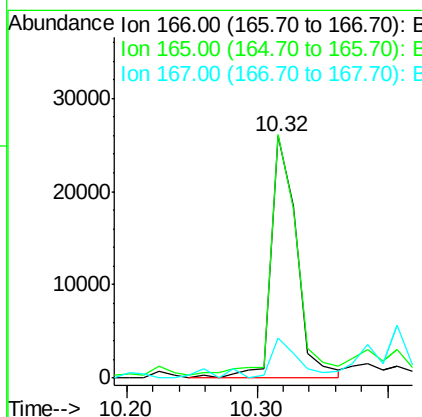
Manual Integrations
APPROVED

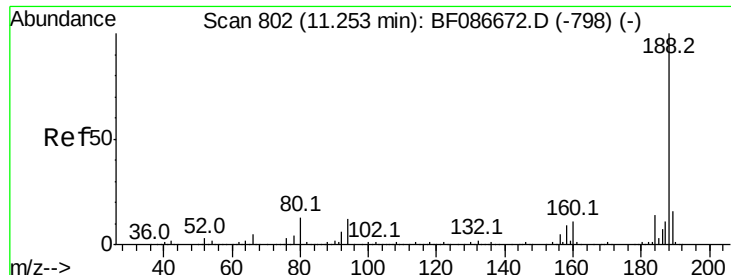
sohil
5/5/2016 3:20:10 PM



#57
Fluorene
Concen: 2.29 ng
RT: 10.32 min Scan# 720
Delta R.T. -0.01 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.6	79.0	118.6	
167	16.8	10.6	15.8	





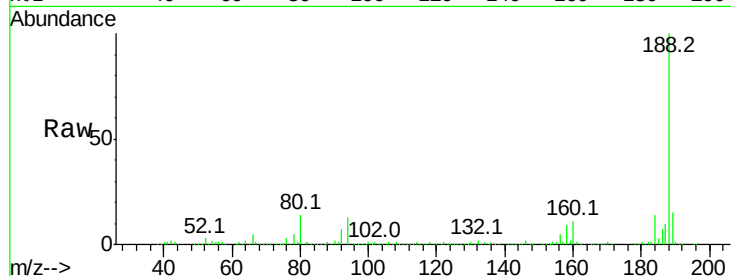
#63
Phenanthrene-d10
Concen: 40.00 ng/mL
RT: 11.25 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

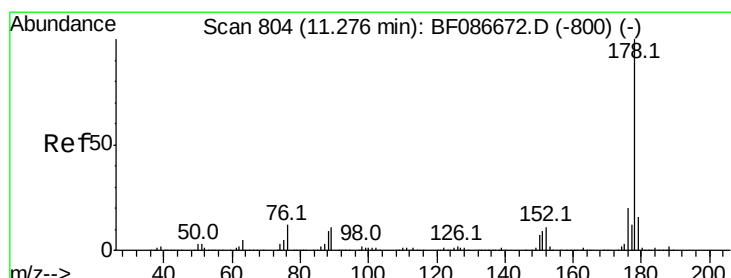
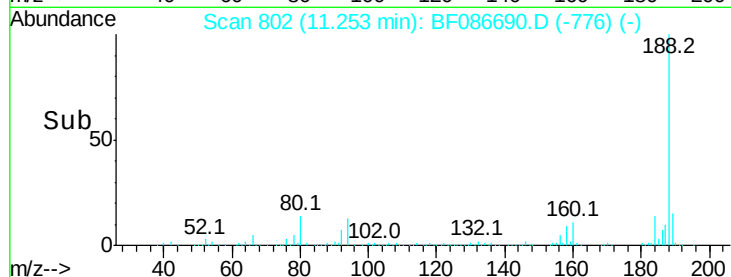
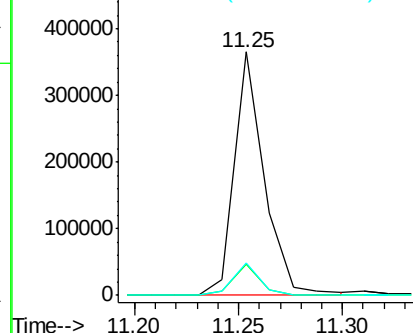
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	12.7	6.8	10.2#
80	13.6	7.1	10.7#

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM

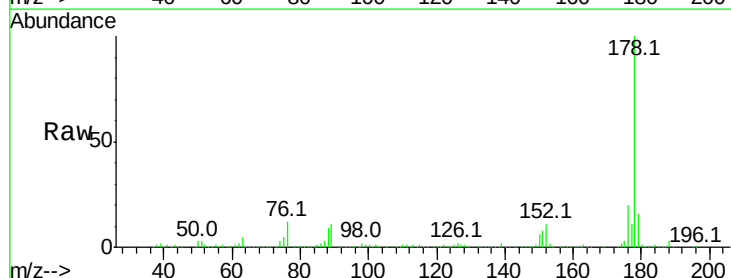


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

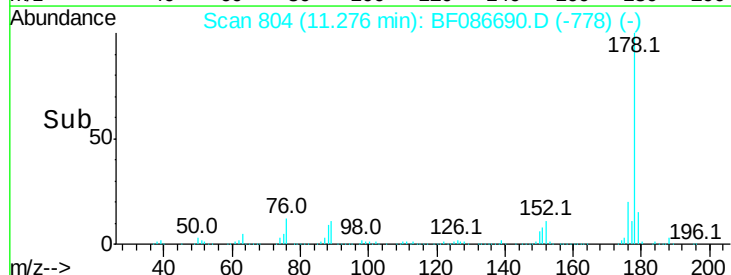
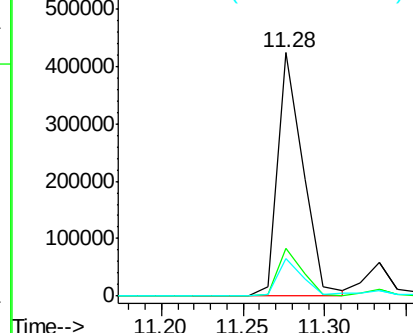


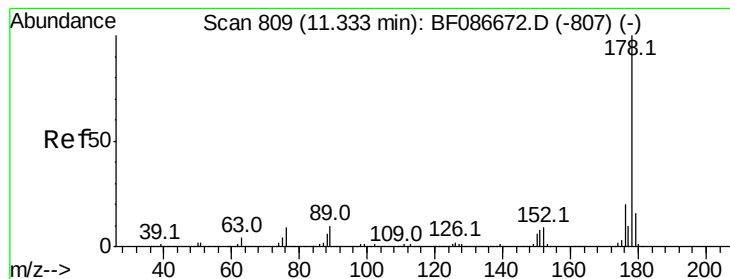
#70
Phenanthrene
Concen: 23.33 ng/mL
RT: 11.28 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.6	12.6	18.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.80 ng

RT: 11.33 min Scan# 809

Delta R.T. 0.00 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Instrument :

BNA_F

ClientSampleId :

26WARD-3-CS-2(0-12FTBGS)

Tot Ion:178 Resp: 78282

Ion Ratio Lower Upper

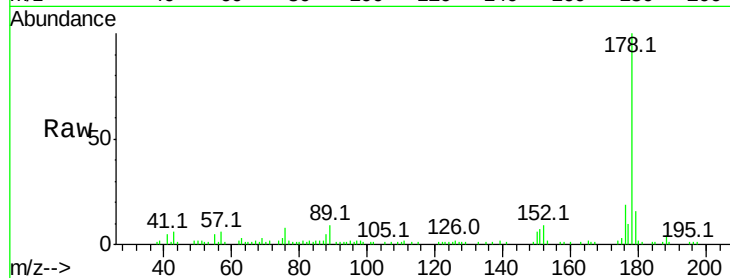
178 100

176 18.8 15.6 23.4

179 16.0 12.7 19.1

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

500000

400000

300000

200000

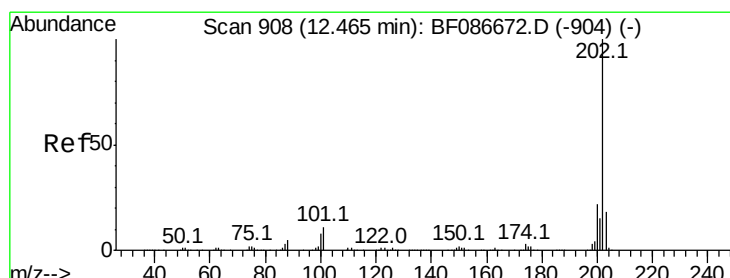
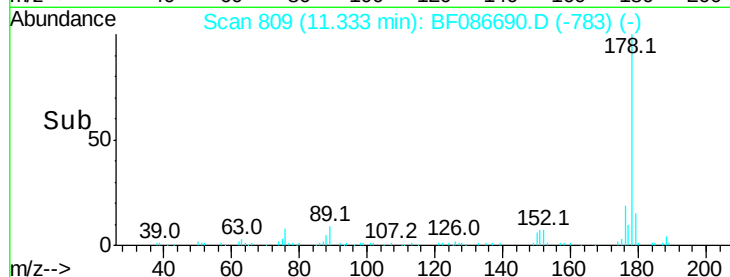
100000

0

11.30

11.40

Time-->



#74

Fluoranthene

Concen: 23.32 ng

RT: 12.47 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

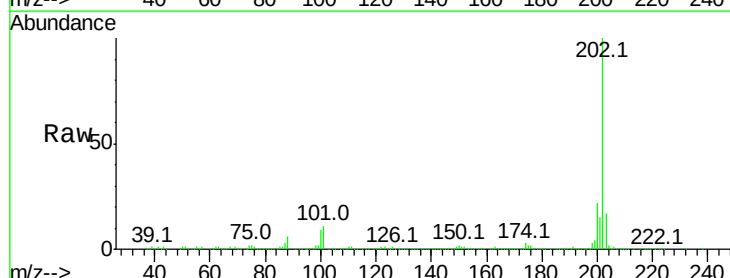
Tgt Ion:202 Resp: 460033

Ion Ratio Lower Upper

202 100

101 11.5 0.0 35.4

203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

600000

400000

200000

0

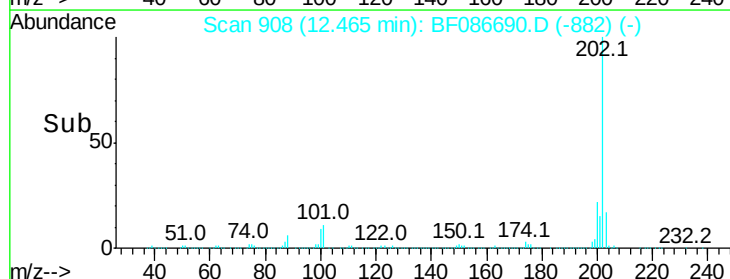
12.40

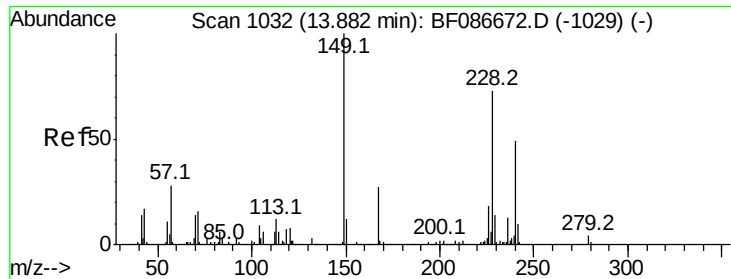
12.45

12.50

12.55

Time-->





#75

Chrysene-d12

Concen: 40.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. 0.01 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Instrument :

BNA_F

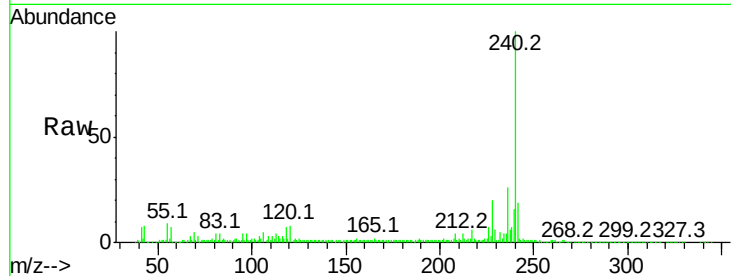
ClientSampleId :

26WARD-3-CS-2(0-12FTBGS)

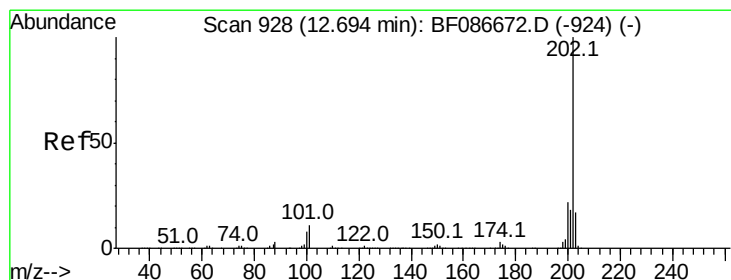
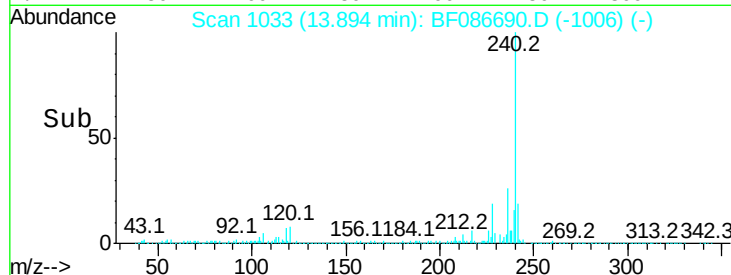
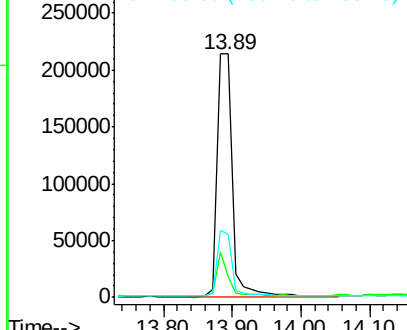
Tot Ion:	240	Resp:	336840
Ion Ratio	Lower	Upper	
240	100		
120	8.4	11.2	16.8#
236	26.2	21.2	31.8

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.60 ng

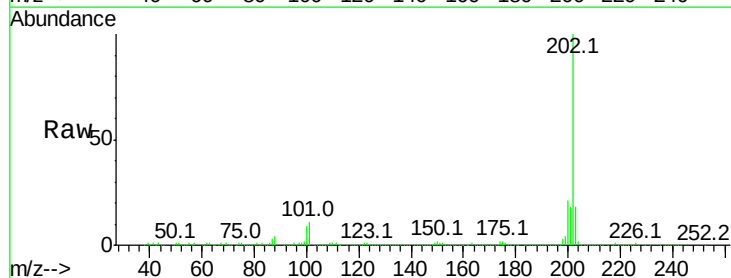
RT: 12.69 min Scan# 928

Delta R.T. 0.00 min

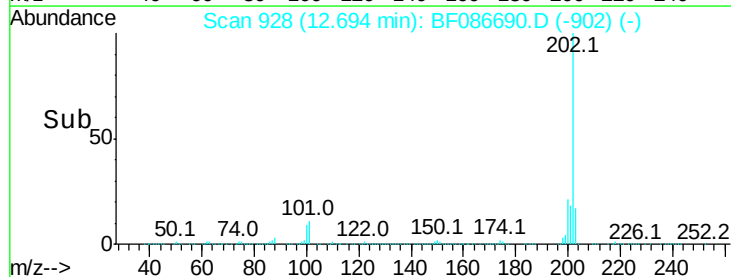
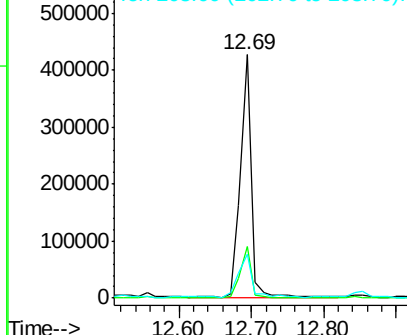
Lab File: BF086690.D

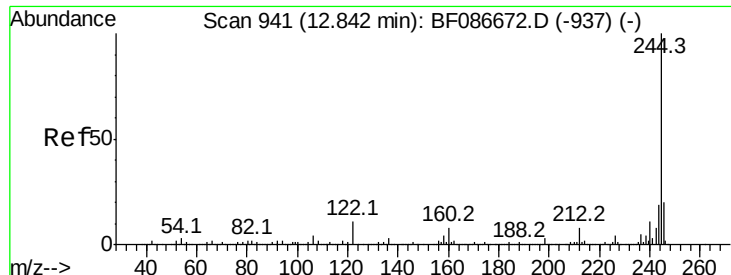
Acq: 4 May 2016 21:37

Tgt Ion:	202	Resp:	445821
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.7	26.5
203	17.8	14.2	21.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 53.57 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF086690.D

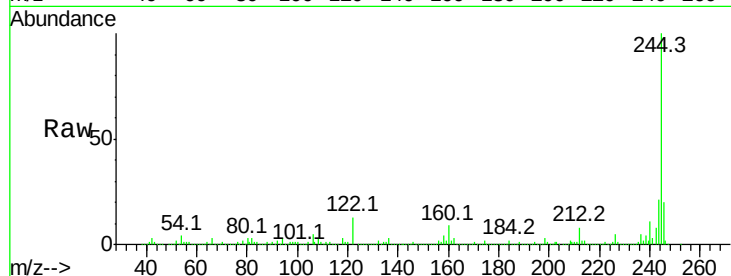
Acq: 4 May 2016 21:37

Instrument :

BNA_F

ClientSampleId :

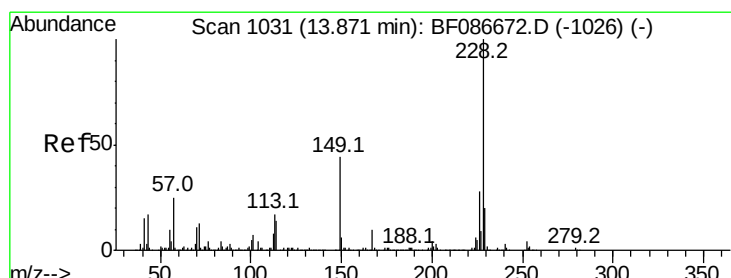
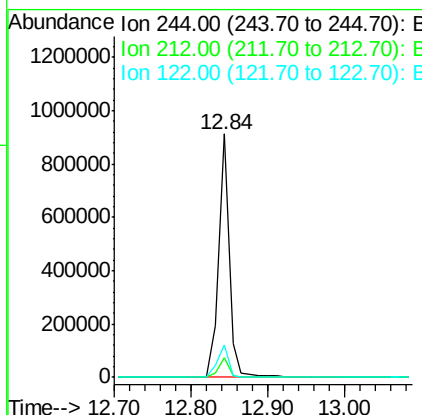
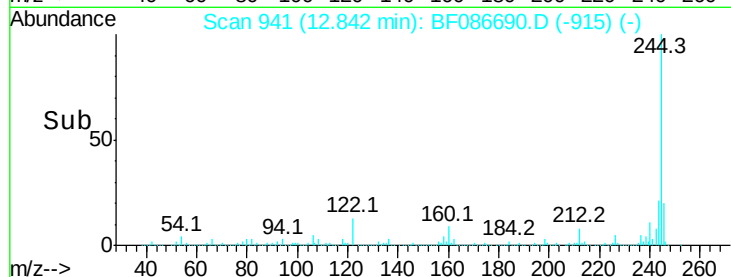
26WARD-3-CS-2(0-12FTBGS)



Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.9	6.2	9.2	
122	13.4	12.0	18.0	

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM



#80

Benzo(a)anthracene

Concen: 9.23 ng

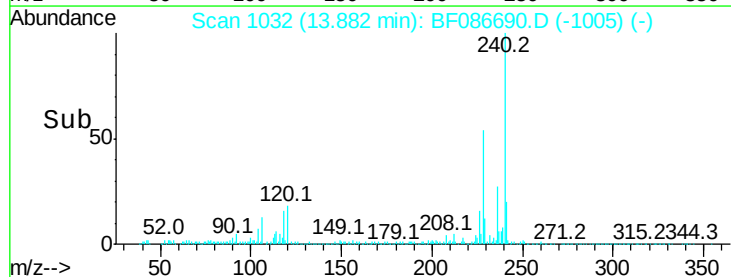
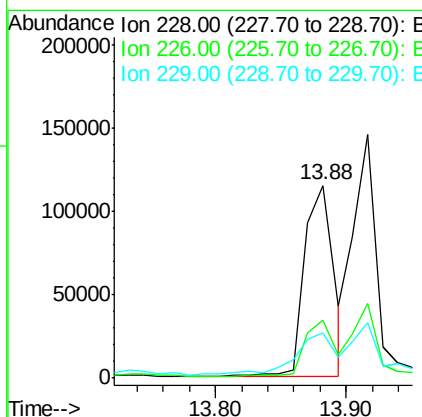
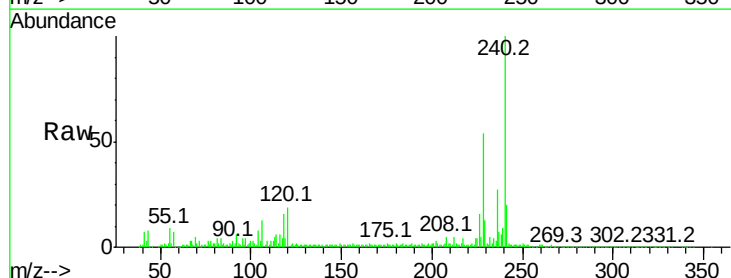
RT: 13.88 min Scan# 1032

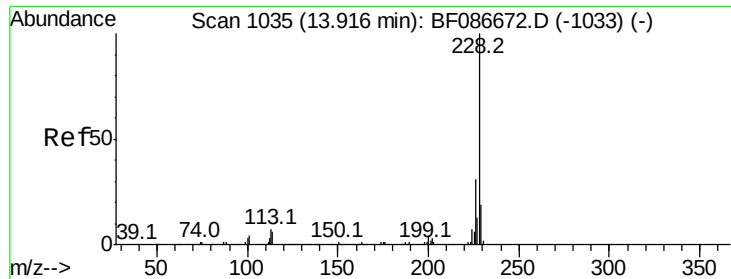
Delta R.T. 0.01 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.3	22.5	33.7	
229	23.5	16.6	25.0	





#82

Chrysene

Concen: 8.87 ng

RT: 13.92 min Scan# 1035

Delta R.T. 0.00 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Instrument :

BNA_F

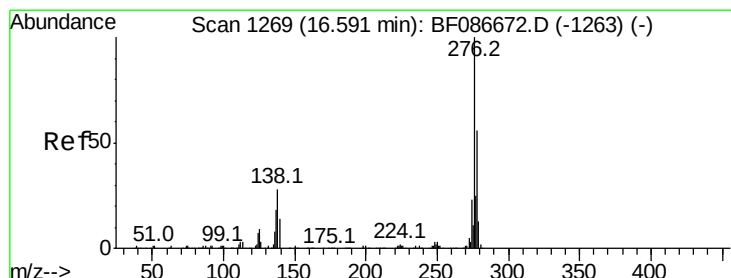
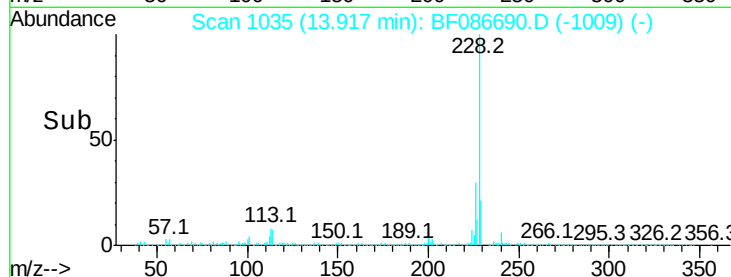
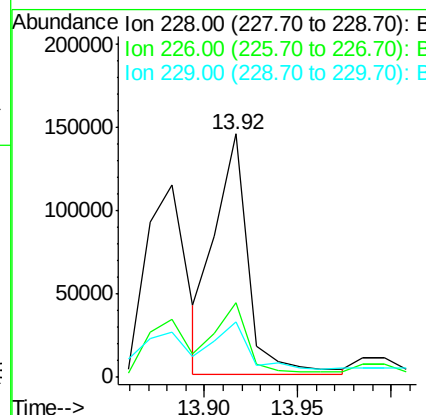
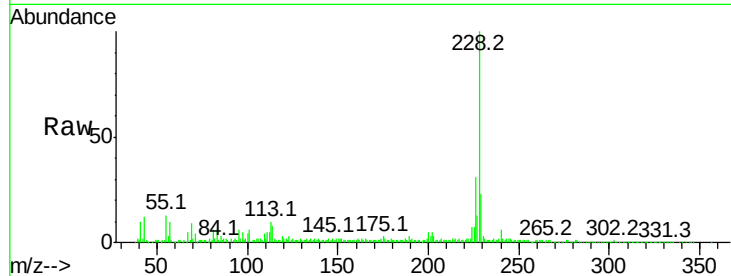
ClientSampleId :

26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.4	36.6
229	22.7	15.8	23.8

Manual Integrations
APPROVED

sohil
5/5/2016 3:20:10 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.30 ng

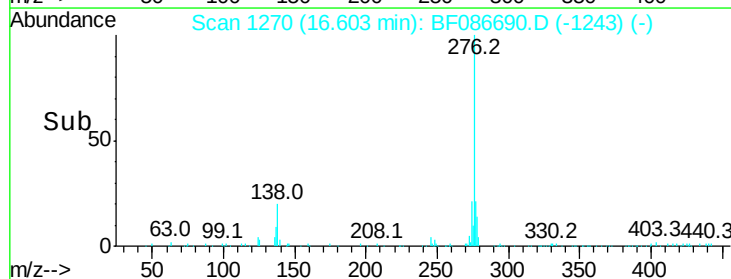
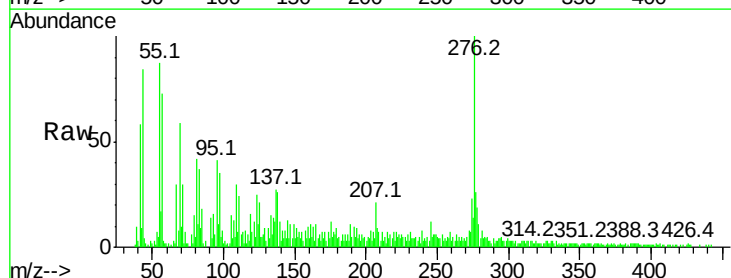
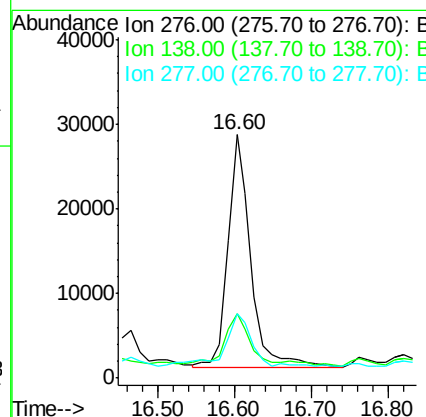
RT: 16.60 min Scan# 1270

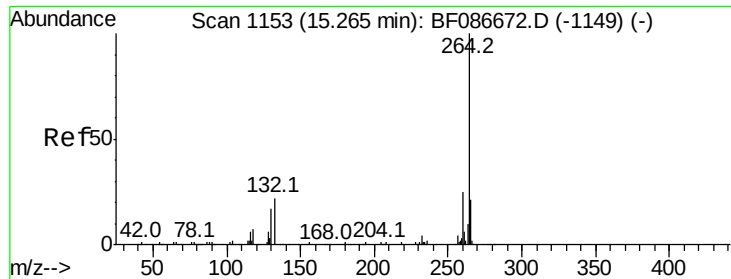
Delta R.T. 0.01 min

Lab File: BF086690.D

Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	25.6	38.4#
277	25.0	20.5	30.7





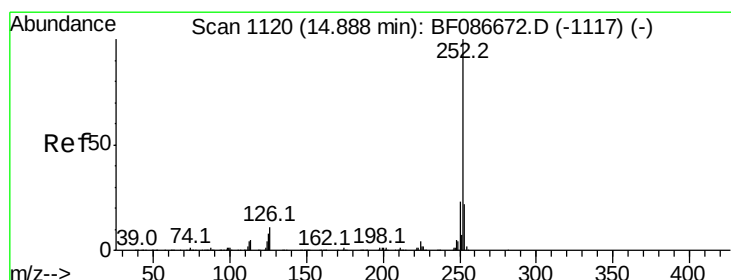
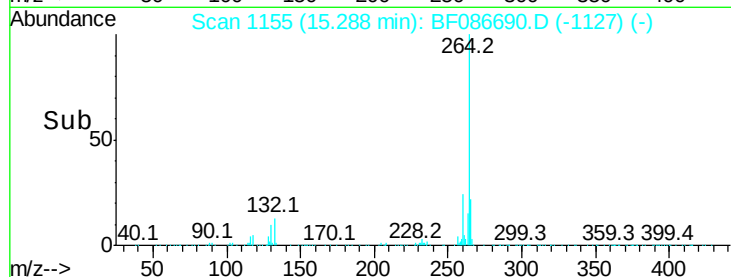
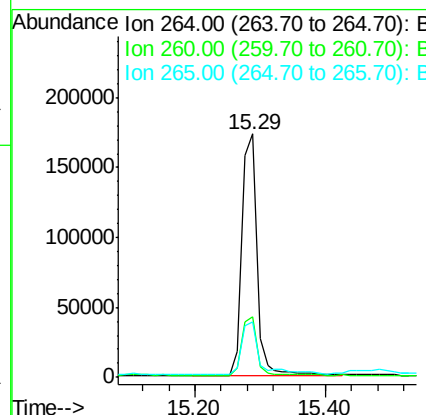
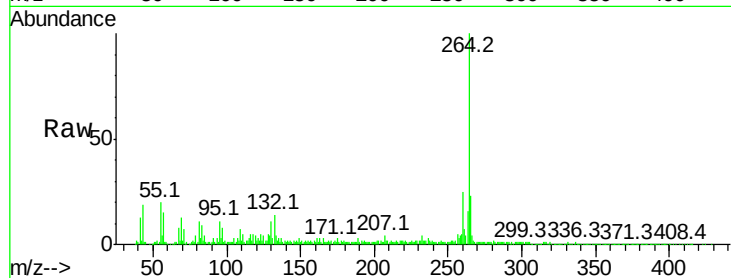
#86
Pervlene-d12
Concen: 40.00 ng
RT: 15.29 min Scan# 1155
Delta R.T. 0.02 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.9	17.3	25.9

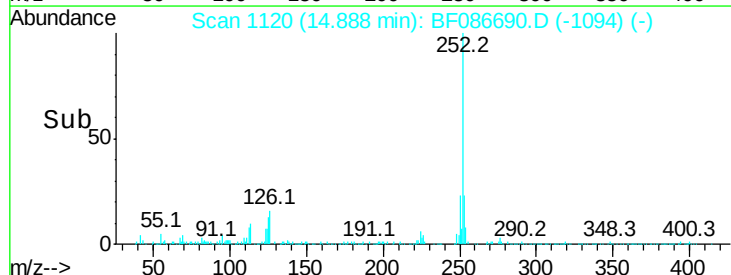
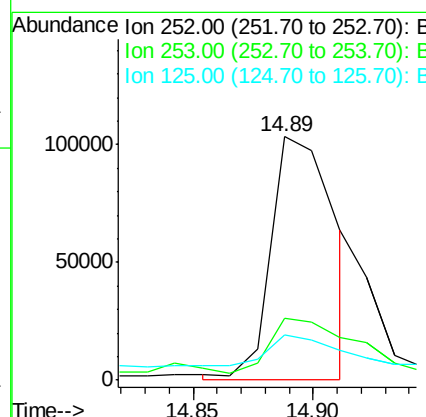
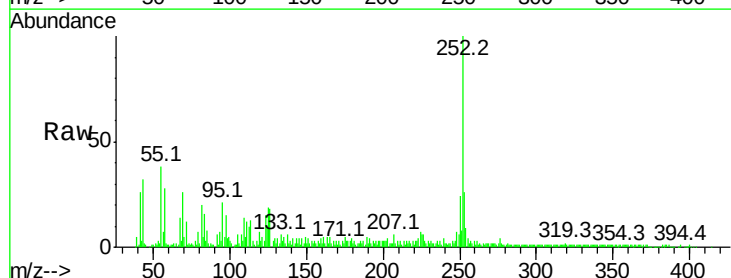
Manual Integrations
APPROVED

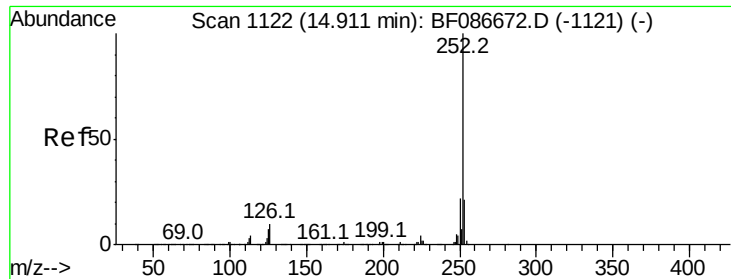
sohil
5/5/2016 3:20:10 PM



#87
Benzo(b)fluoranthene
Concen: 11.51 ng m
RT: 14.89 min Scan# 1120
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.8	26.6
125	18.8	11.4	17.0#





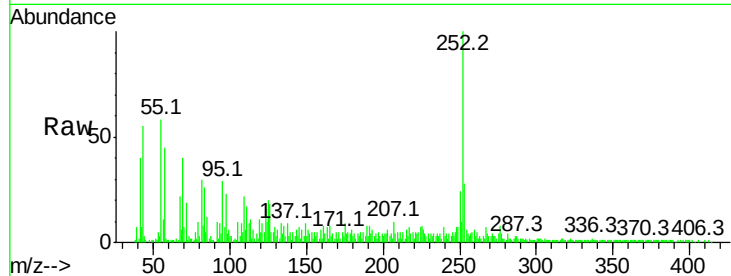
#88
Benzo(k)fluoranthene
Concen: 3.01 ng m
RT: 14.91 min Scan# 1122
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

Instrument :
BNA_F
ClientSampleId :
26WARD-3-CS-2(0-12FTBGS)

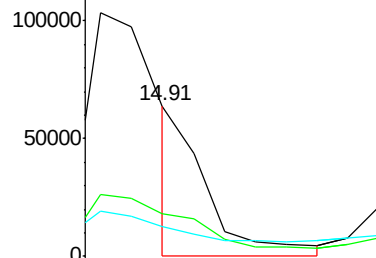
Tot Ion	Ratio	Lower	Upper
252	100		
253	28.3	17.8	26.6#
125	20.3	9.1	13.7#

Manual Integrations
APPROVED

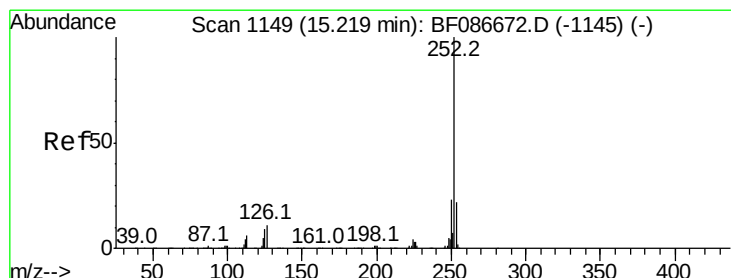
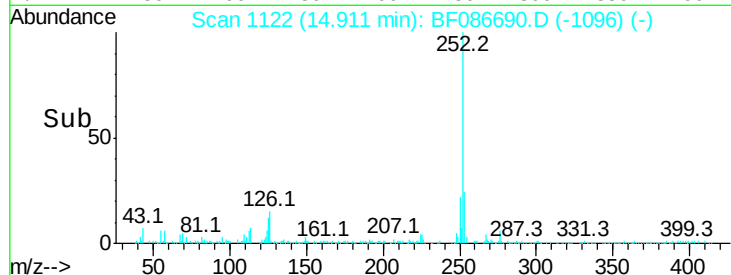
sohil
5/5/2016 3:20:10 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



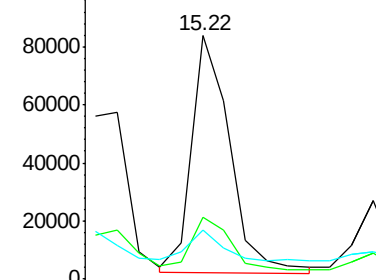
Time-->



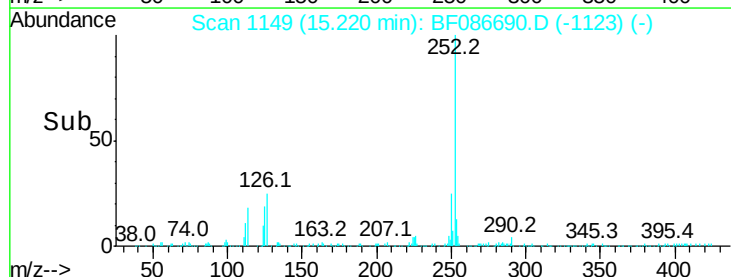
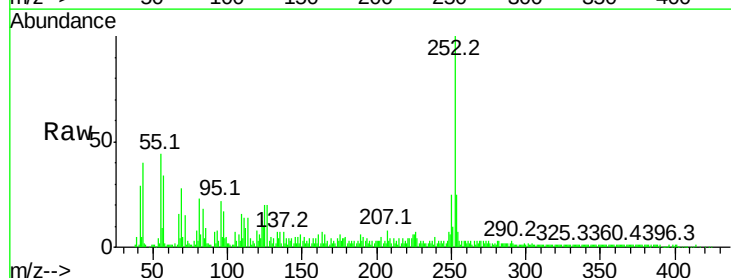
#89
Benzo(a)pyrene
Concen: 7.66 ng
RT: 15.22 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BF086690.D
Acq: 4 May 2016 21:37

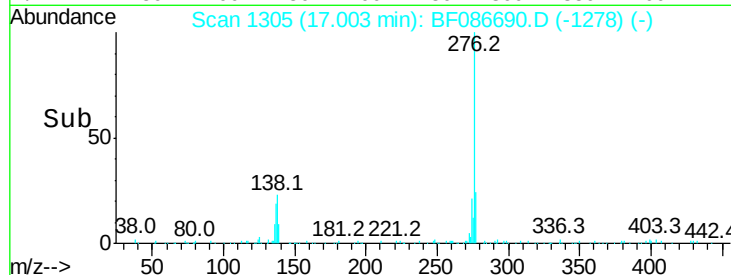
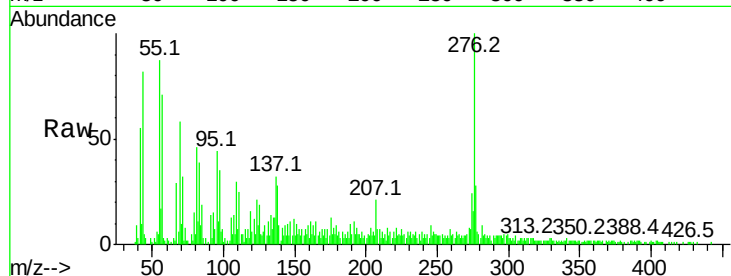
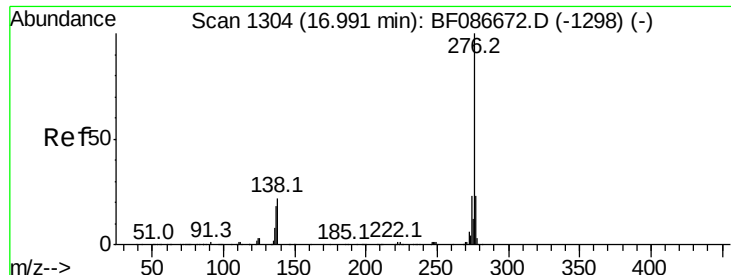
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.2	25.8
125	20.3	9.0	13.6#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#91
 Benzo(a,h,i)perylene
 Concen: 3.49 ng
 RT: 17.00 min Scan# 1305
 Delta R.T. 0.01 min
 Lab File: BF086690.D
 Acq: 4 May 2016 21:37

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-3-CS-2(0-12FTBGS)

Tot Ion	Ratio	Lower	Upper
276	100		
277	28.0	19.6	29.4
138	28.2	23.6	35.4

Manual Integrations
 APPROVED

sohil
 5/5/2016 3:20:10 PM

