

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
 Data File : BF090038.D
 Acq On : 8 Sep 2016 21:42
 Operator : UM/SJ
 Sample : H4704-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Manual Integrations
 APPROVED

Sohil
 9/9/2016 8:40:41 AM

Quant Time: Sep 09 05:40:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 08 16:07:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	177843	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	761442	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	361519	20.00	ng	0.00
63) Phenanthrene-d10	11.10	188	592508	20.00	ng	-0.01
75) Chrysene-d12	13.71	240	432631	20.00	ng	-0.01
86) Perylene-d12	15.06	264	375043	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	1157357	104.17	ng	0.01
7) Phenol-d6	6.25	99	1591777	117.90	ng	0.00
23) Nitrobenzene-d5	7.16	82	832400	63.40	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	331085	92.83	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	1747615	79.35	ng	0.00
78) Terphenyl-d14	12.69	244	1293865	73.88	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.36	163	524938	20.09	ng	100
51) Acenaphthene	9.66	154	66498	3.08	ng	99
57) Fluorene	10.17	166	55016	2.60	ng	99
70) Phenanthrene	11.12	178	628126	21.29	ng	99
71) Anthracene	11.18	178	204907	6.85	ng	99
72) Carbazole	11.34	167	84070	3.00	ng	99
74) Fluoranthene	12.31	202	1168757	37.80	ng	98
77) Pyrene	12.52	202	951397	31.19	ng	98
80) Benzo(a)anthracene	13.70	228	618173	23.33	ng	97
82) Chrysene	13.74	228	487886m	19.71	ng	
85) Indeno(1,2,3-cd)pyrene	16.26	276	240865	13.16	ng	98
87) Benzo(b)fluoranthene	14.71	252	544151m	23.16	ng	
88) Benzo(k)fluoranthene	14.71	252	304075m	15.25	ng	
89) Benzo(a)pyrene	15.01	252	431314	21.43	ng	# 97
90) Dibenzo(a,h)anthracene	16.27	278	49291m	3.34	ng	
91) Benzo(g,h,i)perylene	16.63	276	211767	14.26	ng	97

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

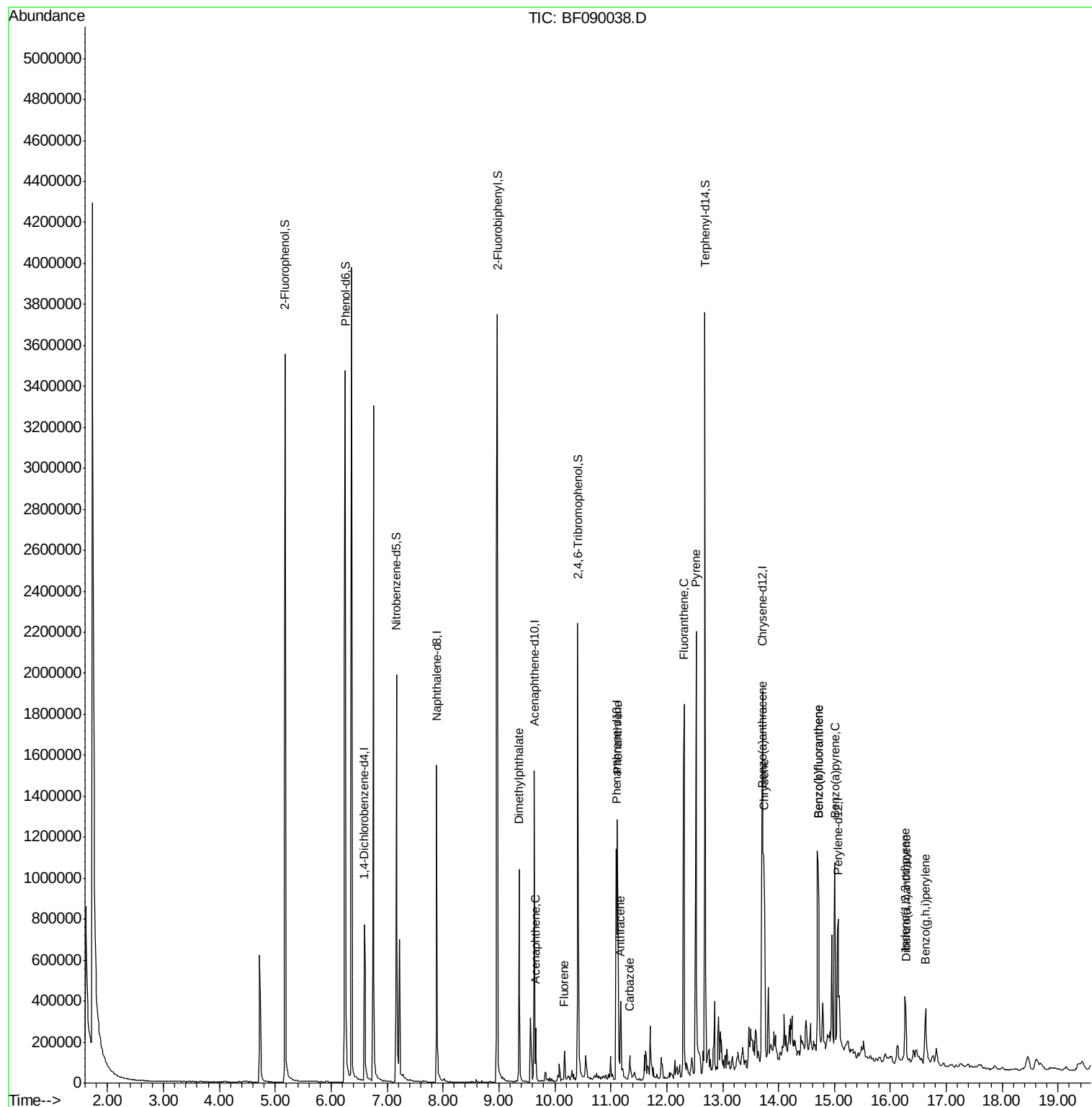
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
Data File : BF090038.D
Acq On : 8 Sep 2016 21:42
Operator : UM/SJ
Sample : H4704-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

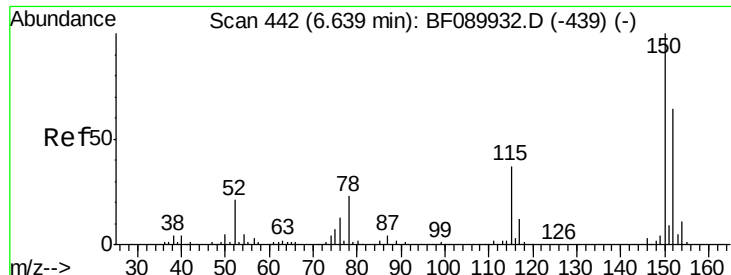
Instrument :
BNA_F
ClientSampleId :
COMP-1

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 AM

Quant Time: Sep 09 05:40:47 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 08 16:07:52 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

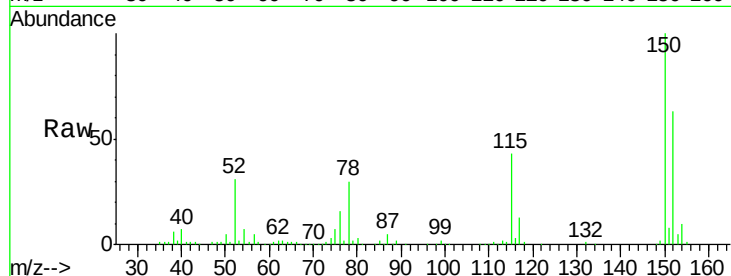
ClientSampled :

COMP-1

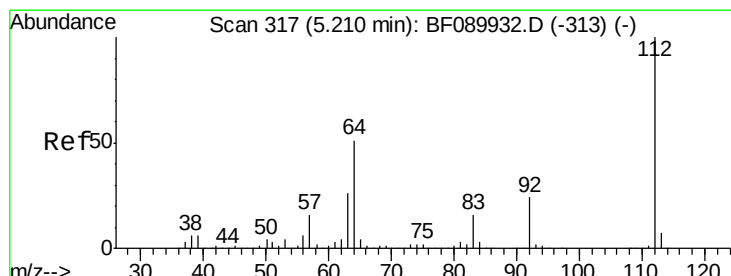
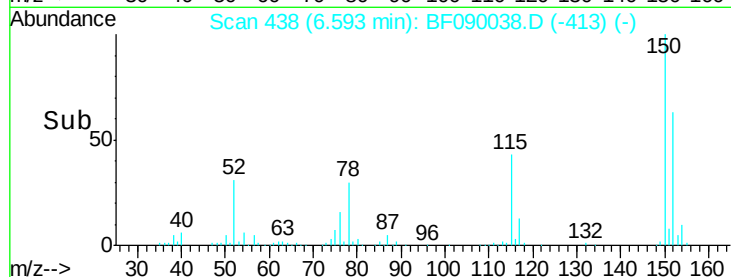
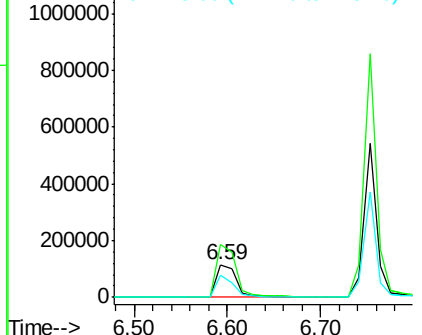
Tgt Ion:	152	Resp:	177843
Ion Ratio	Lower	Upper	
152	100		
150	159.6	127.4	191.2
115	68.6	46.3	69.5

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 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



#5

2-Fluorophenol

Concen: 104.17 ng

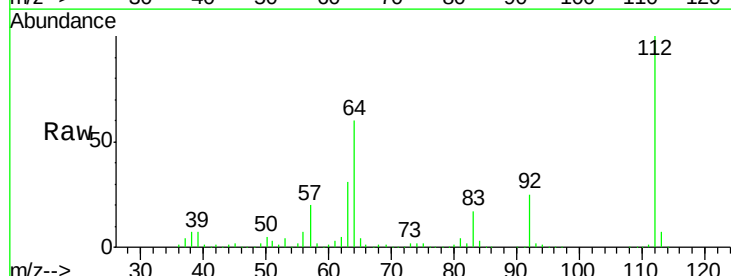
RT: 5.18 min Scan# 314

Delta R.T. 0.01 min

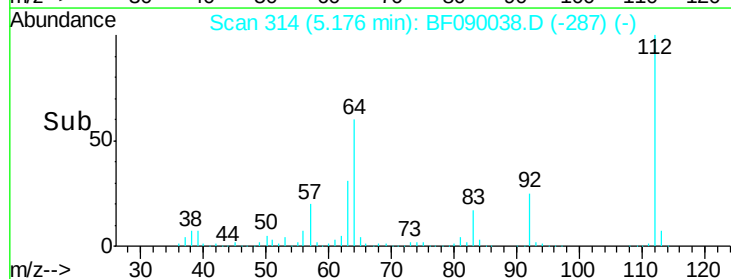
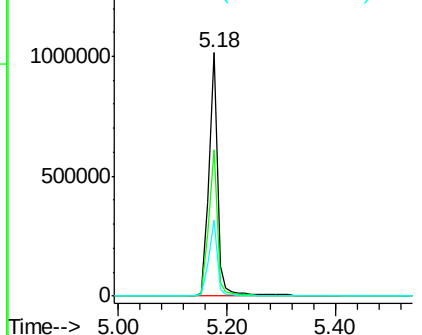
Lab File: BF090038.D

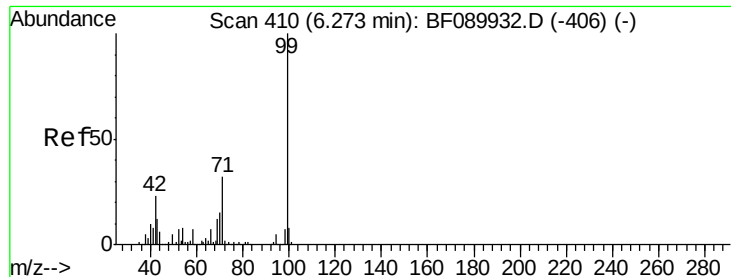
Acq: 8 Sep 2016 21:42

Tgt Ion:	112	Resp:	1157357
Ion Ratio	Lower	Upper	
112	100		
64	60.0	41.1	61.7
63	31.2	21.2	31.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.90 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

ClientSampleId :

COMP-1

Tgt Ion: 99 Resp: 1591777

Ion Ratio Lower Upper

99 100

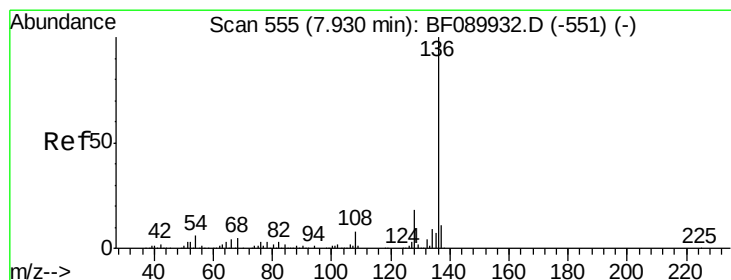
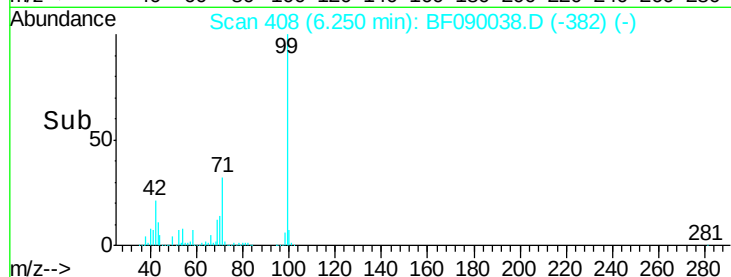
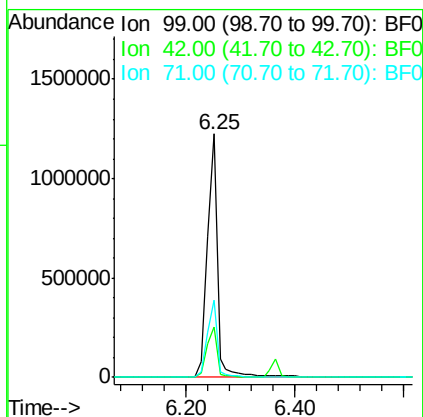
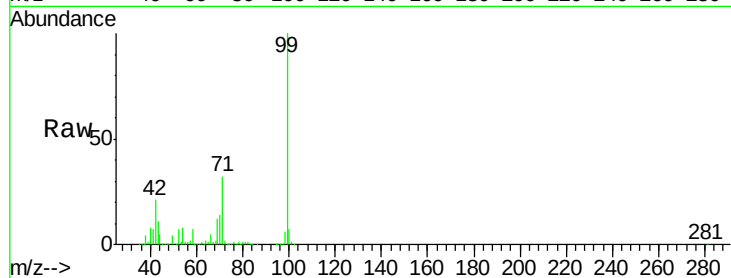
42 20.9 18.6 27.8

71 31.8 25.8 38.6

Manual Integrations
APPROVED

Sohil

9/9/2016 8:40:41 AM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Tgt Ion: 136 Resp: 761442

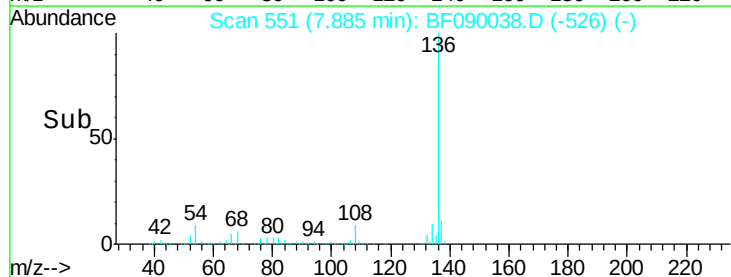
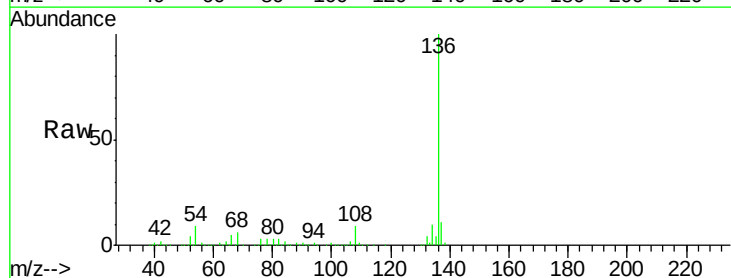
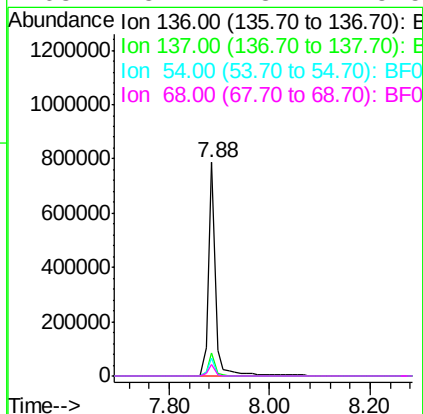
Ion Ratio Lower Upper

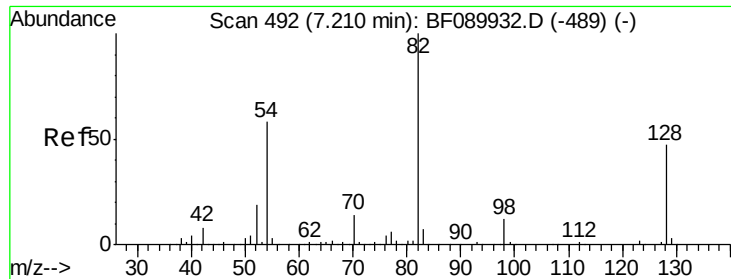
136 100

137 11.0 8.3 12.5

54 8.6 4.8 7.2#

68 5.7 3.7 5.5#





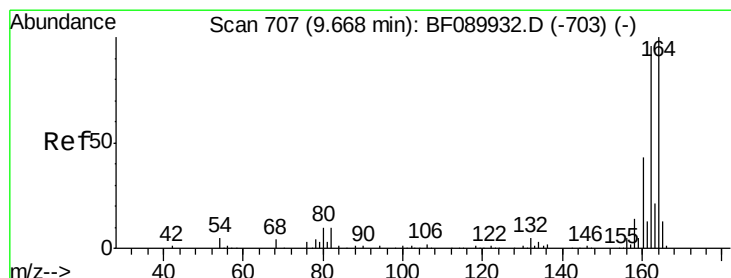
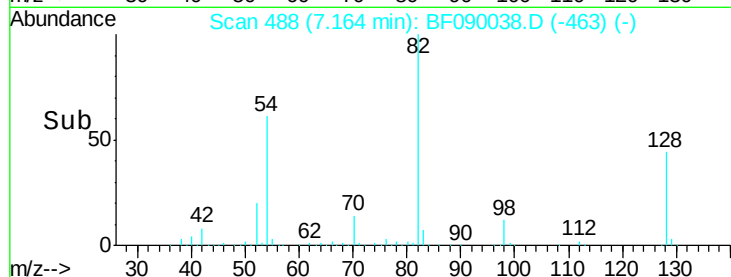
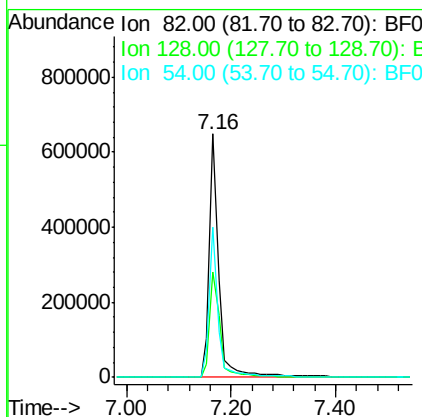
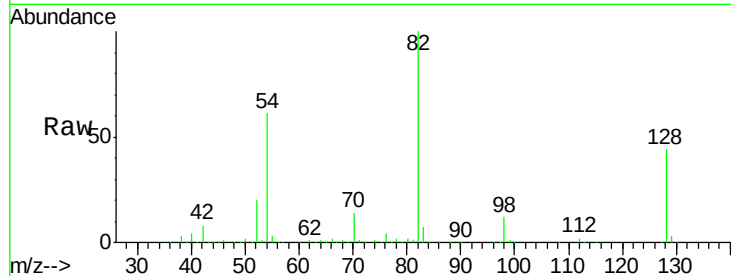
#23
 Nitrobenzene-d5
 Concen: 63.40 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Instrument :
 BNA_F
 ClientSampled :
 COMP-1

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	832400		
128	43.5	37.8	56.8	
54	61.5	46.9	70.3	

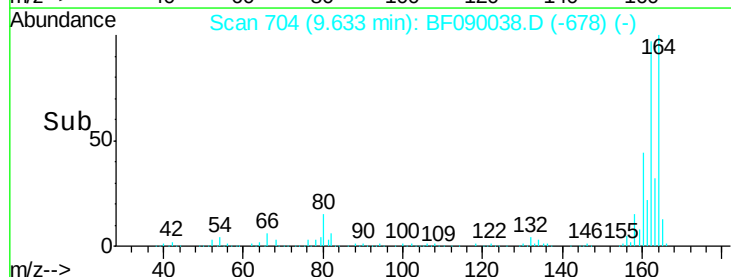
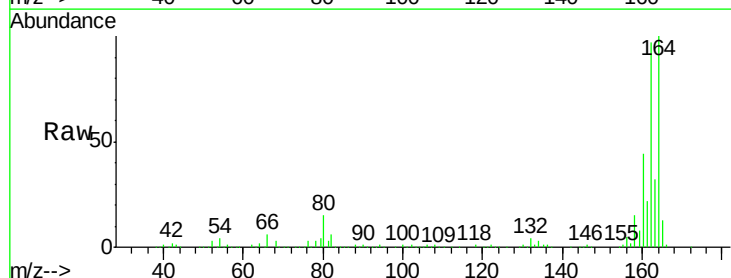
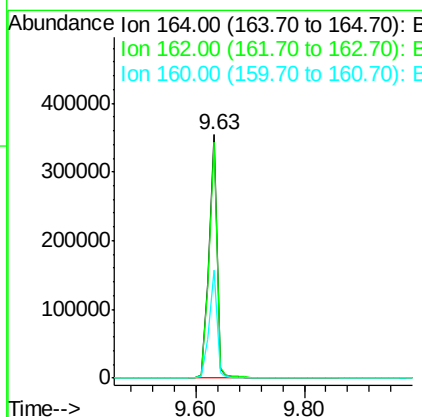
Manual Integrations
 APPROVED

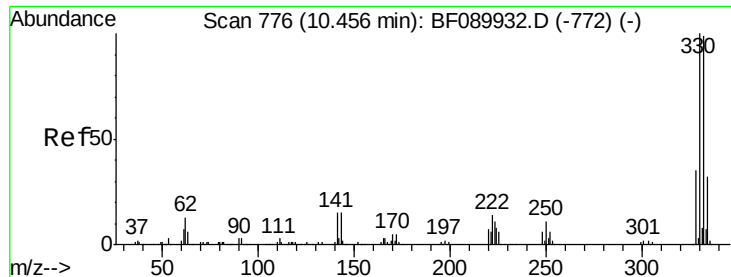
Sohil
 9/9/2016 8:40:41 AM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.63 min Scan# 704
 Delta R.T. 0.00 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	361519		
162	97.0	77.1	115.7	
160	44.2	35.3	52.9	





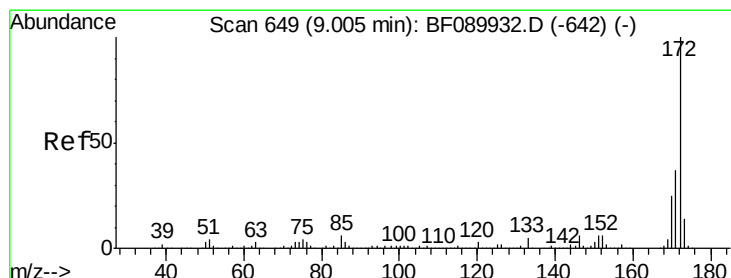
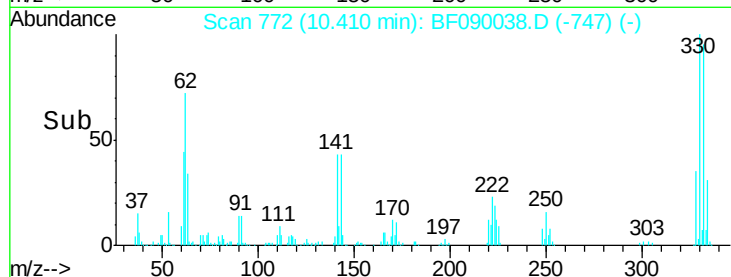
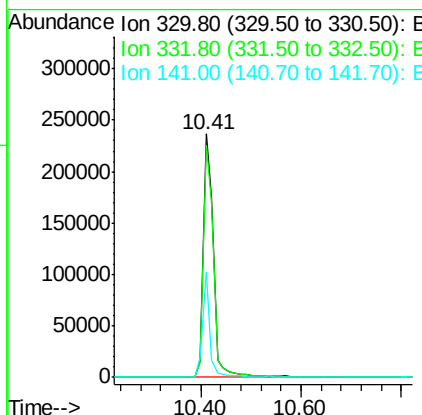
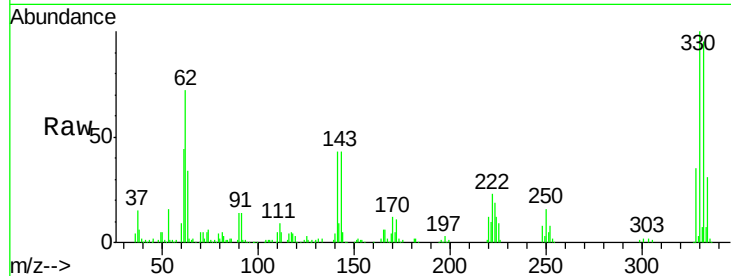
#41
 2,4,6-Tribromophenol
 Concen: 92.83 ng
 RT: 10.41 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	331085		
332	96.1	78.6	117.8	
141	31.4	23.3	34.9	

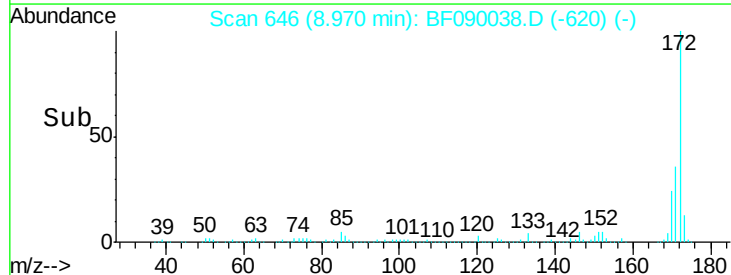
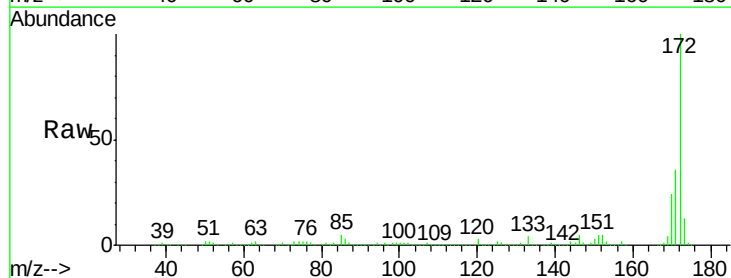
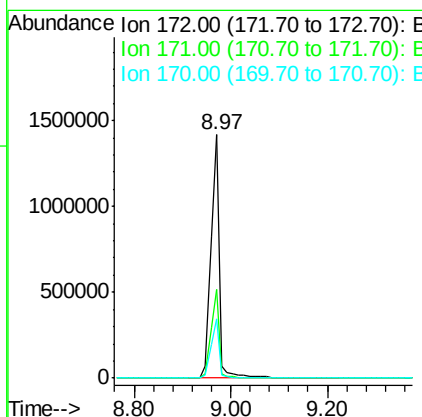
Manual Integrations
 APPROVED

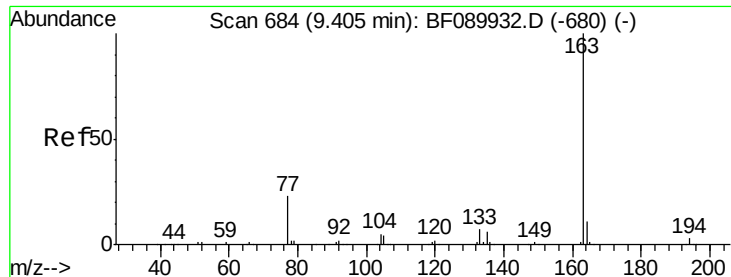
Sohil
 9/9/2016 8:40:41 AM



#44
 2-Fluorobiphenyl
 Concen: 79.35 ng
 RT: 8.97 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1747615		
171	36.2	29.4	44.2	
170	24.4	20.1	30.1	





#49

Dimethylphthalate

Concen: 20.09 ng

RT: 9.36 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

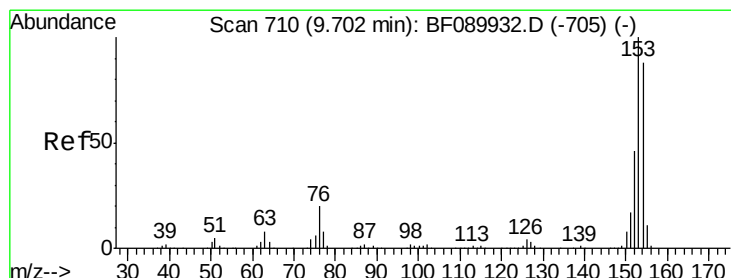
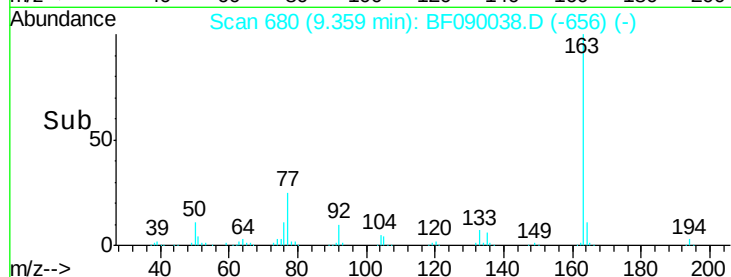
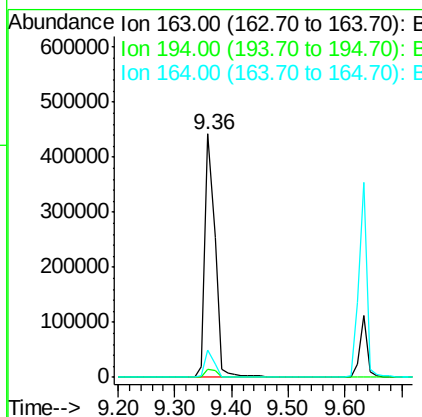
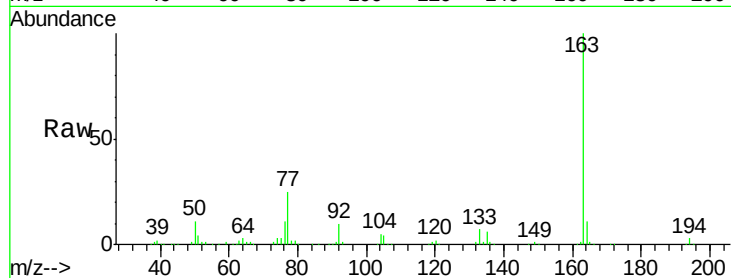
ClientSampleId :

COMP-1

Tgt Ion:	163	Resp:	524938
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.7	4.1
164	11.3	9.0	13.4

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 AM



#51

Acenaphthene

Concen: 3.08 ng

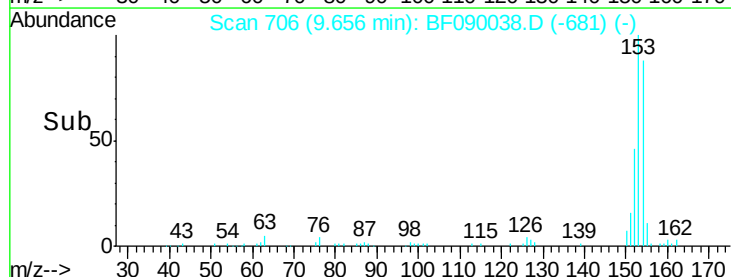
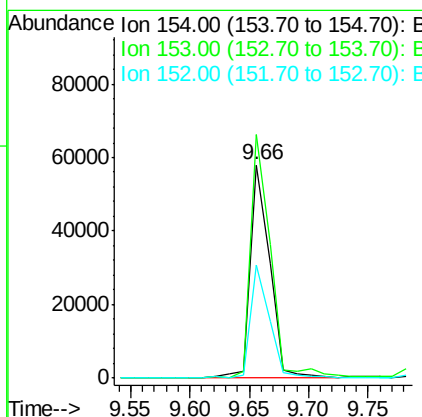
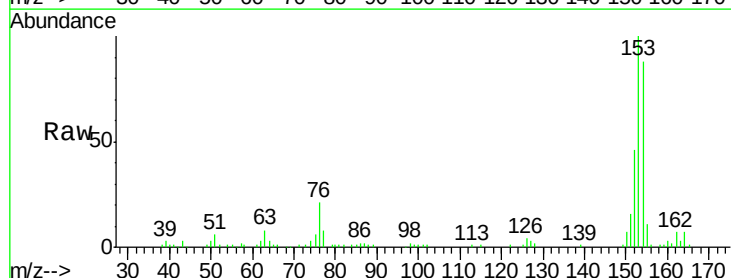
RT: 9.66 min Scan# 706

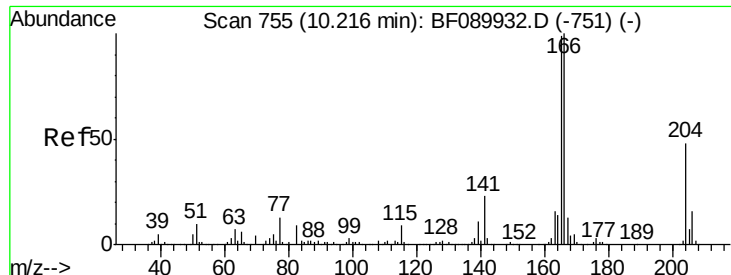
Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Tgt Ion:	154	Resp:	66498
Ion Ratio	Lower	Upper	
154	100		
153	114.0	90.6	135.8
152	52.7	42.4	63.6





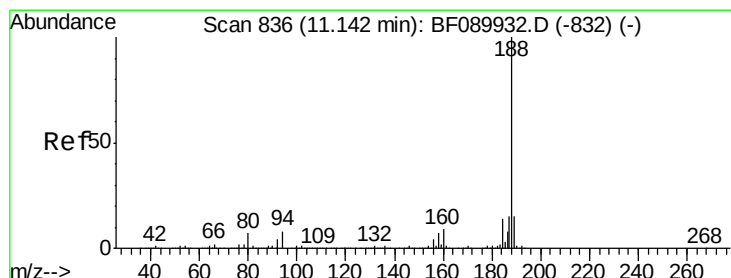
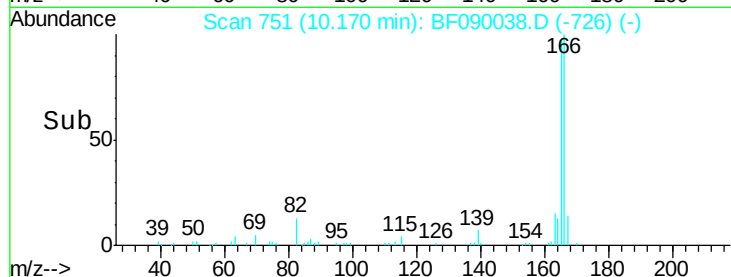
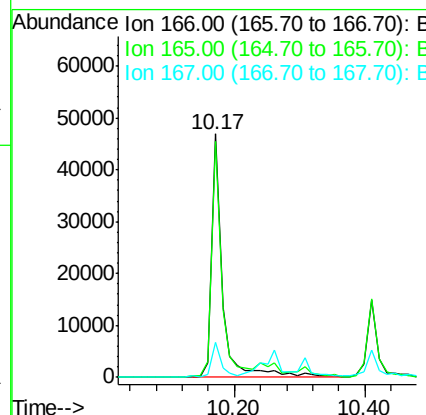
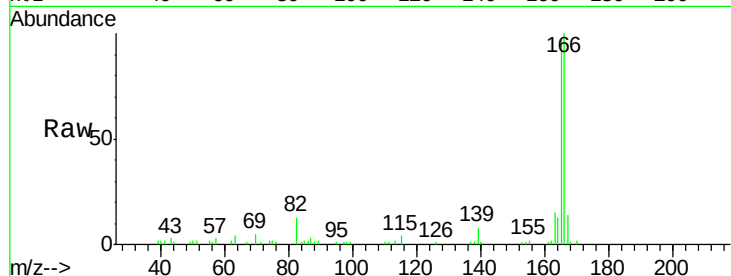
#57
Fluorene
 Concen: 2.60 ng
 RT: 10.17 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.6	118.0
167	14.2	10.6	15.8

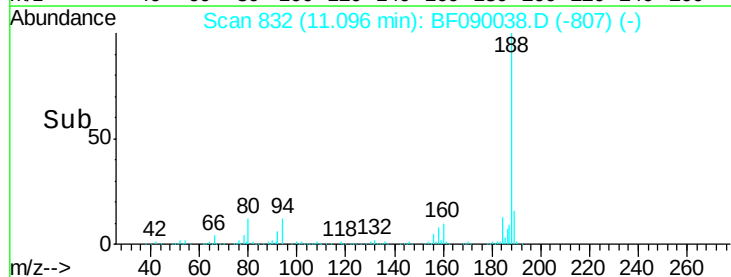
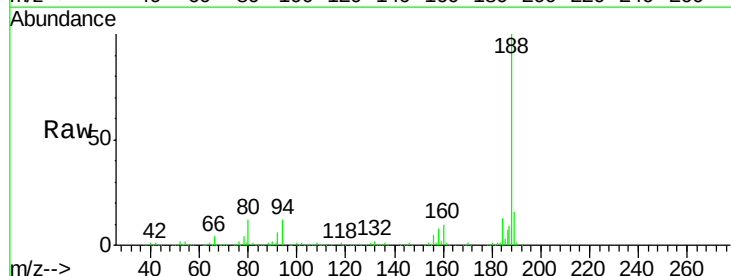
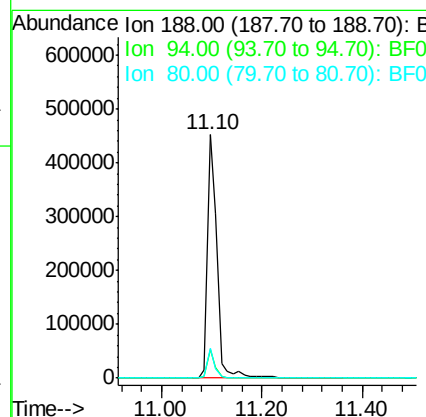
Manual Integrations
 APPROVED

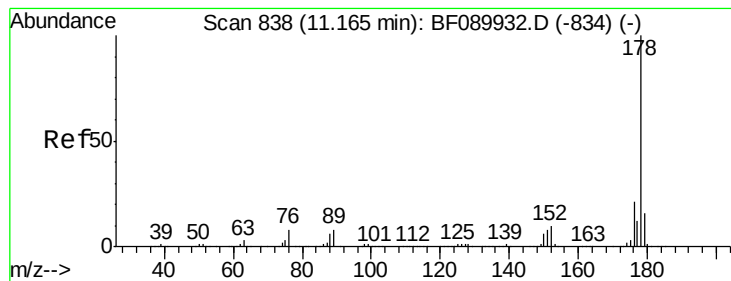
Sohil
 9/9/2016 8:40:41 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF090038.D
 Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	5.9	8.9#
80	12.5	5.8	8.8#





#70

Phenanthrene

Concen: 21.29 ng

RT: 11.12 min Scan# 834

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

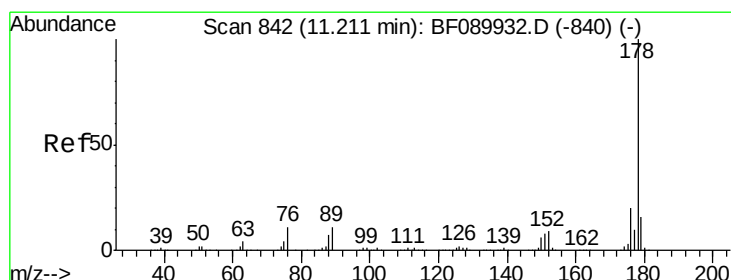
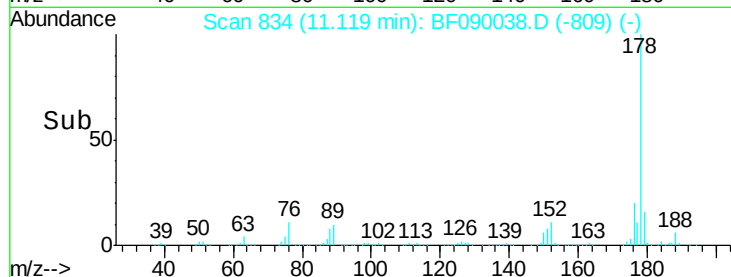
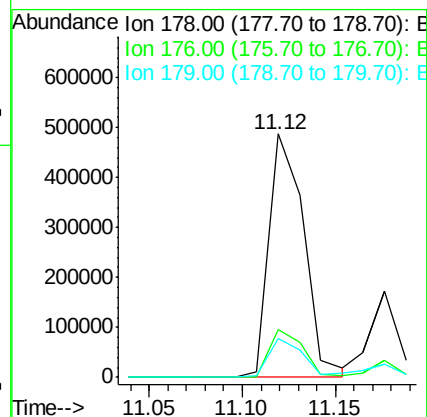
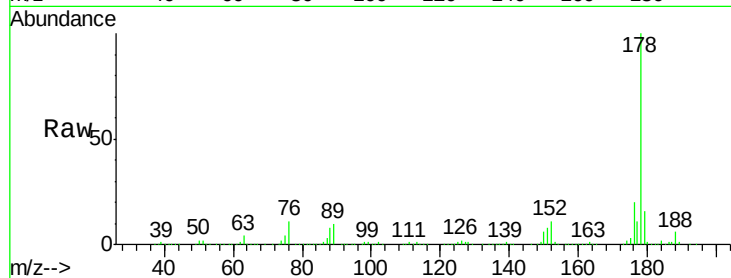
ClientSampled :

COMP-1

Tgt Ion:	178	Resp:	628126
Ion Ratio	Lower	Upper	
178	100		
176	19.8	16.5	24.7
179	15.8	12.8	19.2

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 AM



#71

Anthracene

Concen: 6.85 ng

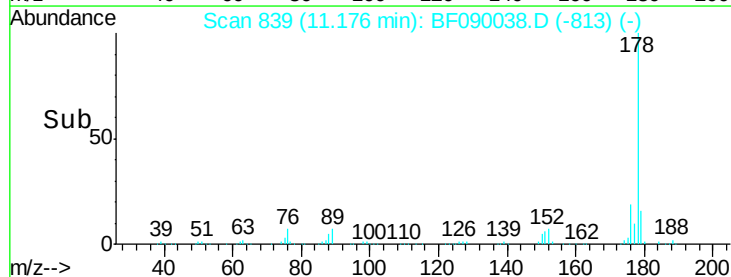
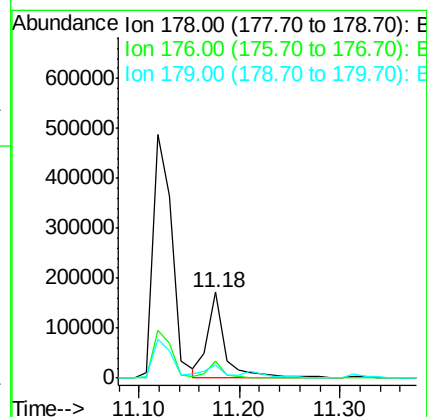
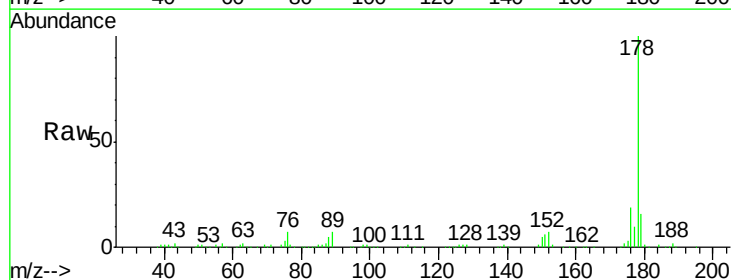
RT: 11.18 min Scan# 839

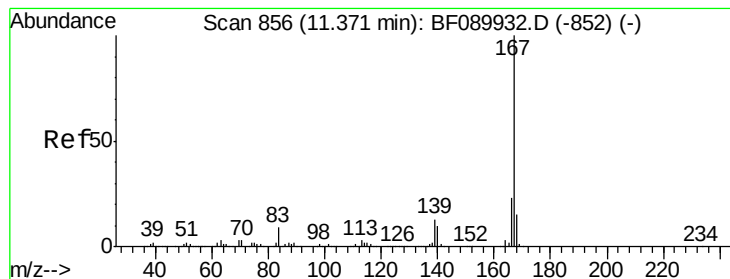
Delta R.T. 0.00 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Tgt Ion:	178	Resp:	204907
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.8	23.8
179	15.9	13.0	19.4





#72

Carbazole

Concen: 3.00 ng

RT: 11.34 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

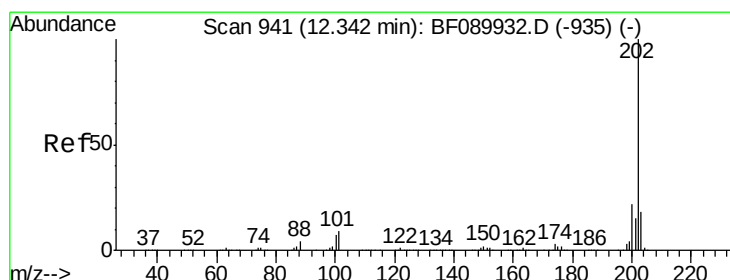
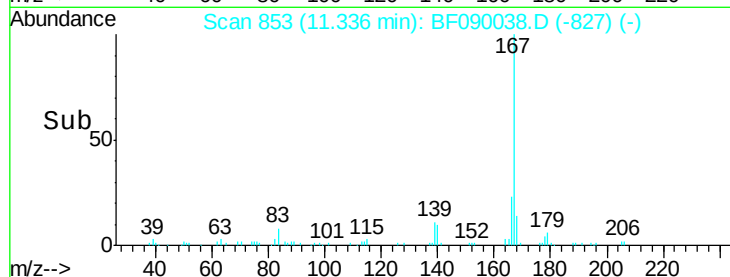
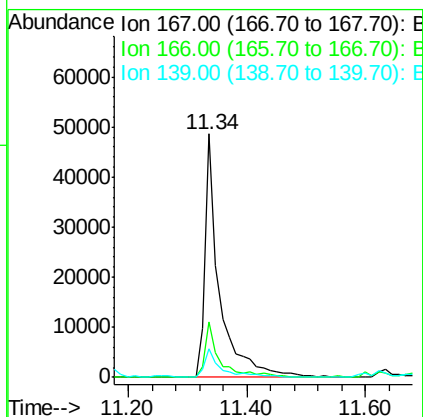
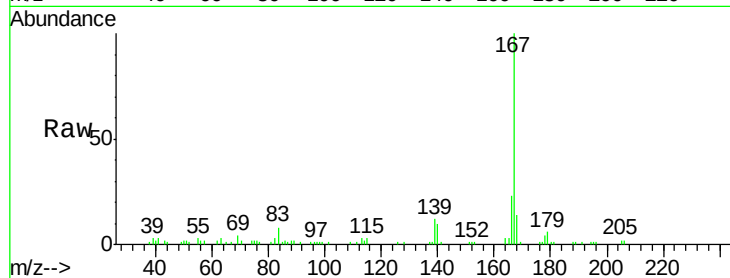
ClientSampled :

COMP-1

Tgt Ion:	167	Resp:	84070
Ion Ratio	Lower	Upper	
167	100		
166	23.0	18.1	27.1
139	11.9	10.4	15.6

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 AM



#74

Fluoranthene

Concen: 37.80 ng

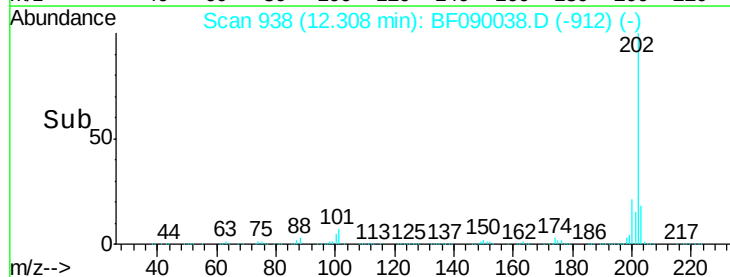
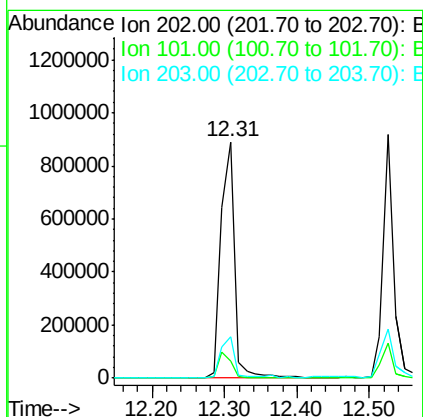
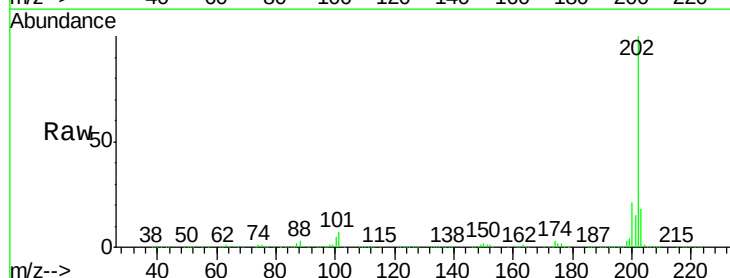
RT: 12.31 min Scan# 938

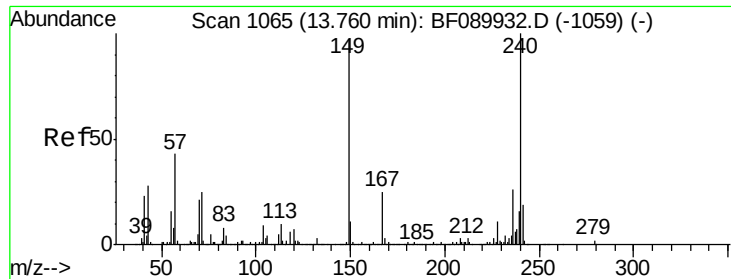
Delta R.T. 0.00 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Tgt Ion:	202	Resp:	1168757
Ion Ratio	Lower	Upper	
202	100		
101	7.5	0.0	28.5
203	17.6	0.0	38.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

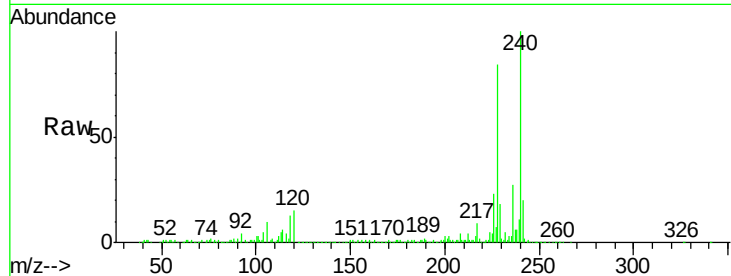
ClientSampled :

COMP-1

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.9	5.7	8.5#
236	26.6	21.3	31.9

Manual Integrations
APPROVED

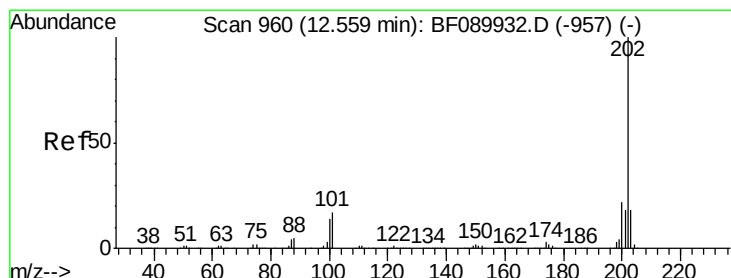
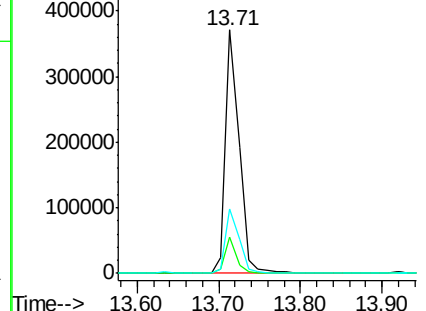
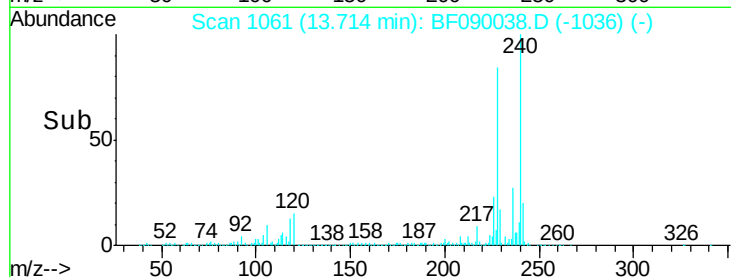
Sohil
9/9/2016 8:40:41 AM



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: 31.19 ng

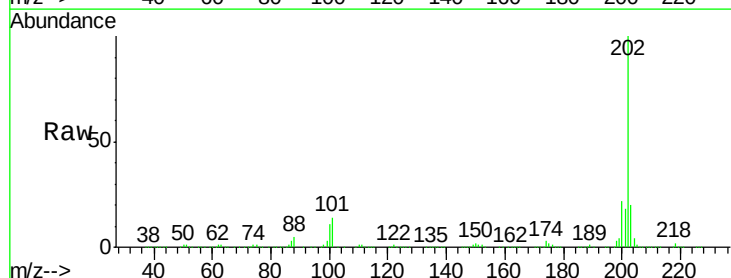
RT: 12.52 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

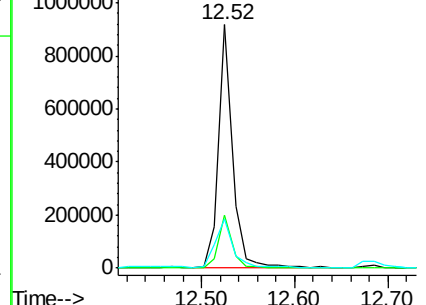
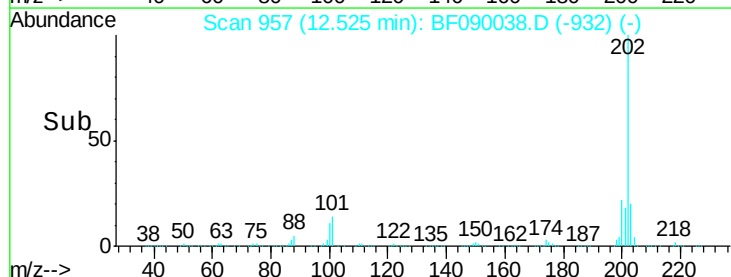
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	20.0	14.6	21.8

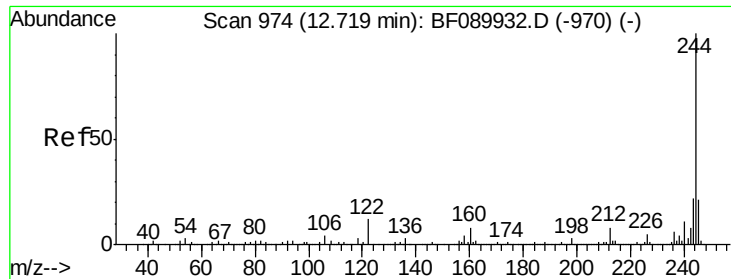


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 73.88 ng

RT: 12.69 min Scan# 971

Delta R.T. 0.00 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

Instrument :

BNA_F

ClientSampleId :

COMP-1

Tgt Ion:244 Resp: 1293865

Ion Ratio Lower Upper

244 100

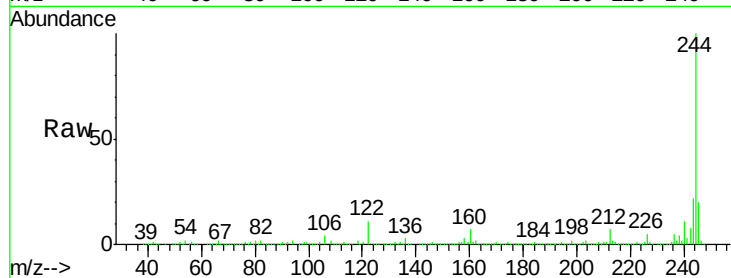
212 7.3 6.1 9.1

122 10.9 9.6 14.4

Manual Integrations
APPROVED

Sohil

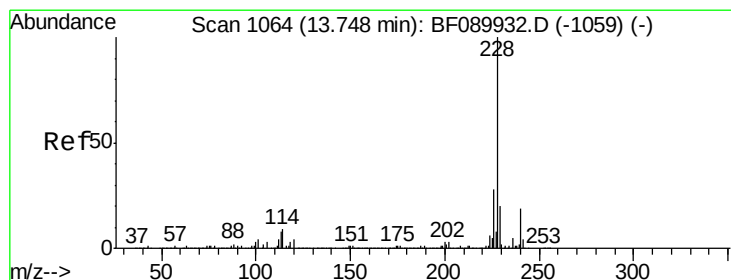
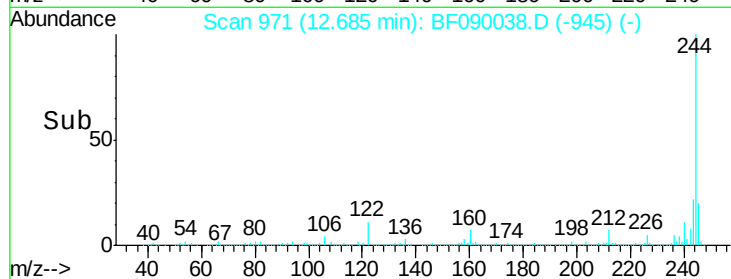
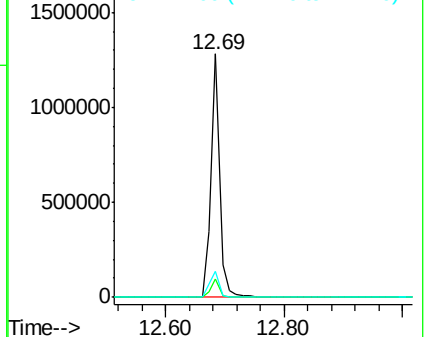
9/9/2016 8:40:41 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 23.33 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.01 min

Lab File: BF090038.D

Acq: 8 Sep 2016 21:42

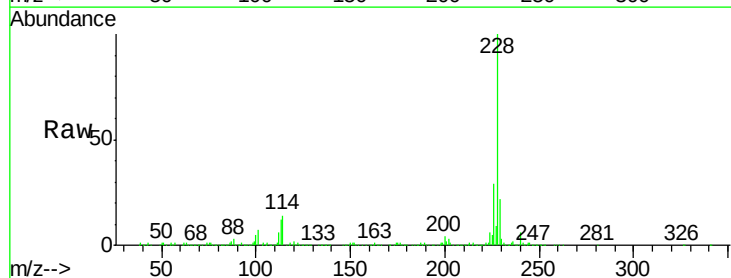
Tgt Ion:228 Resp: 618173

Ion Ratio Lower Upper

228 100

226 28.7 22.2 33.2

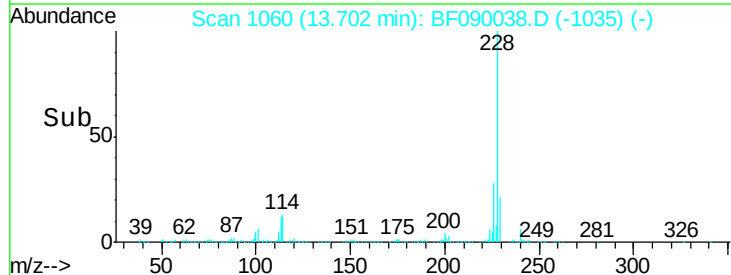
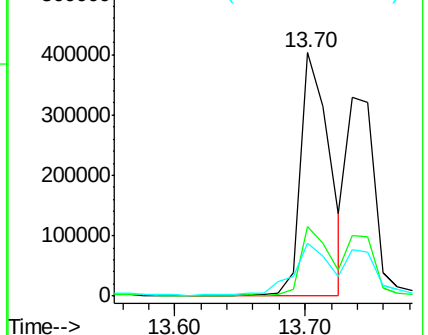
229 22.0 15.8 23.6

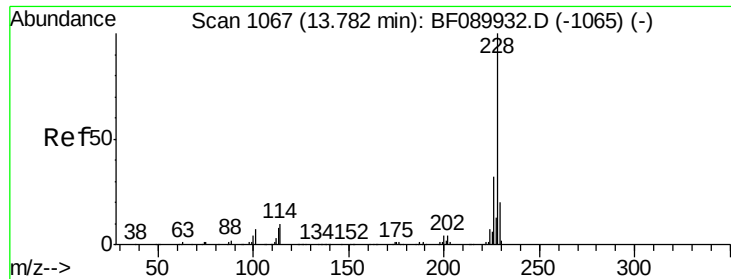


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





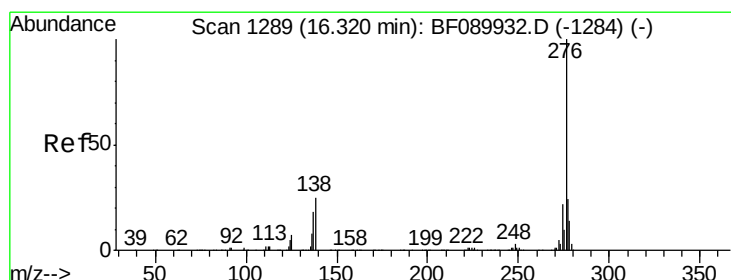
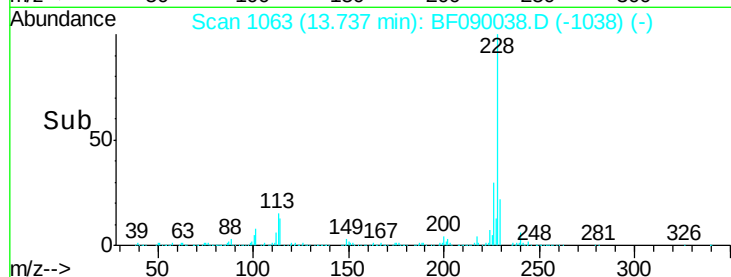
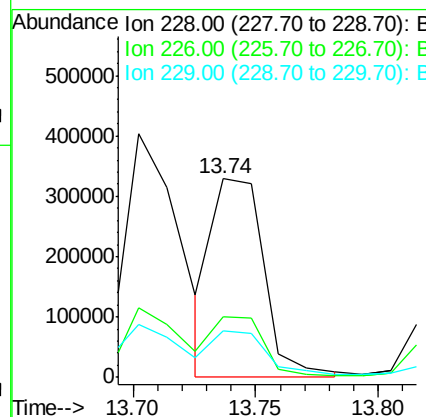
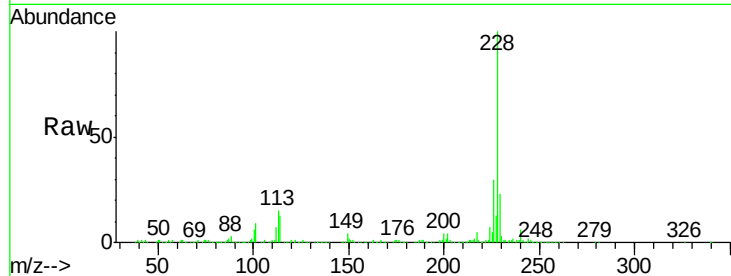
#82
Chrysene
Concen: 19.71 ng m
RT: 13.74 min Scan# 1063
Delta R.T. -0.01 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Instrument :
BNA_F
ClientSampled :
COMP-1

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	487886		
226	30.4	25.2	37.8	
229	23.3	16.2	24.2	

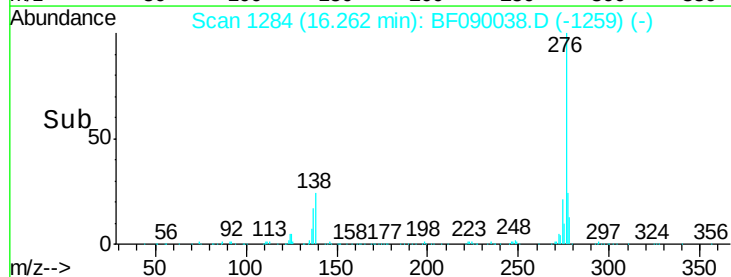
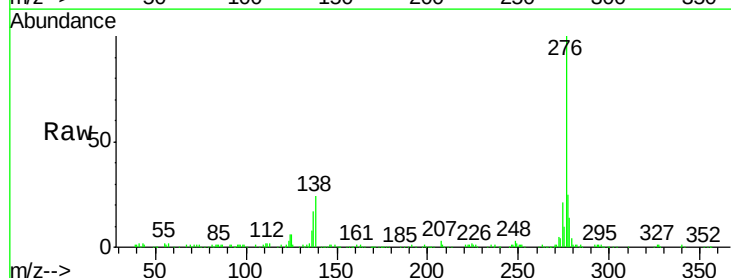
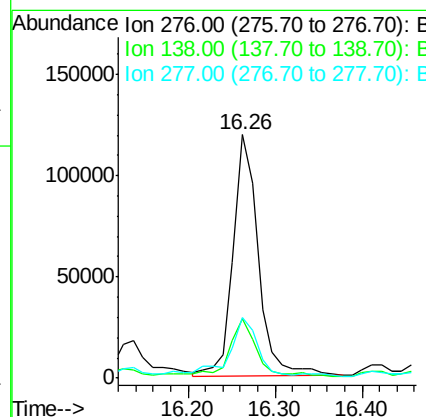
Manual Integrations
APPROVED

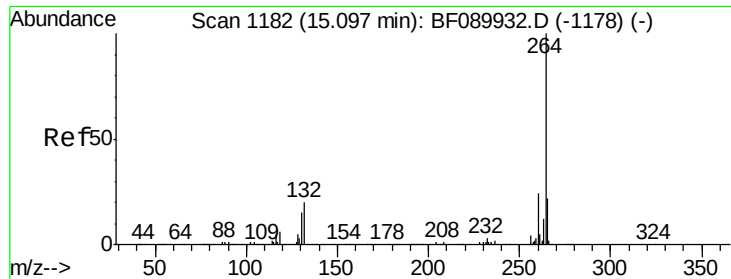
Sohil
9/9/2016 8:40:41 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.16 ng
RT: 16.26 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	240865		
138	27.5	22.6	34.0	
277	26.0	20.1	30.1	





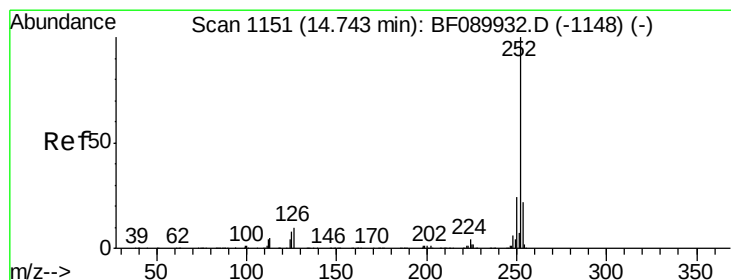
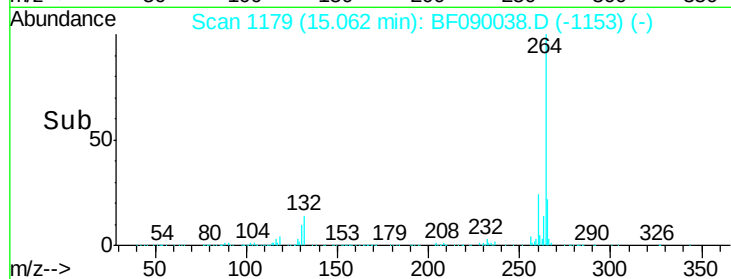
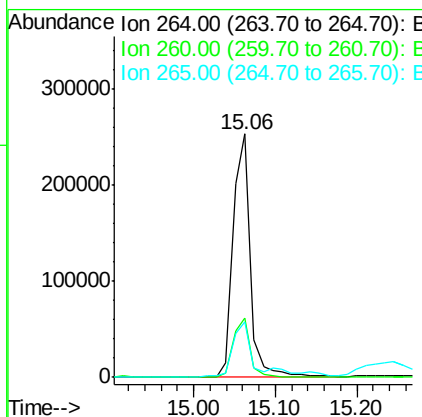
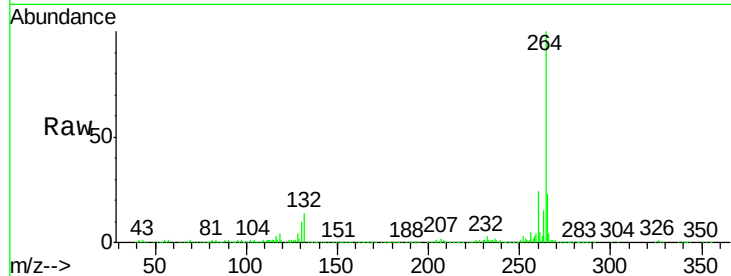
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.06 min Scan# 1179
Delta R.T. 0.00 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Instrument :
BNA_F
ClientSampleId :
COMP-1

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.0
265	22.6	17.4	26.2

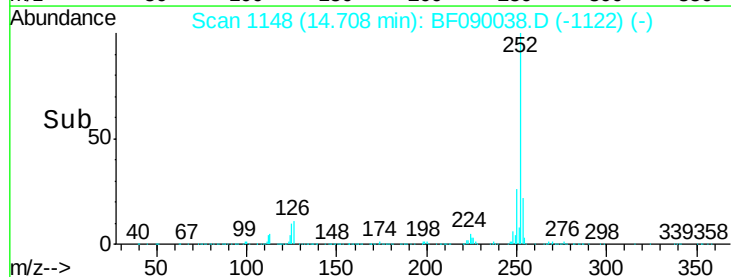
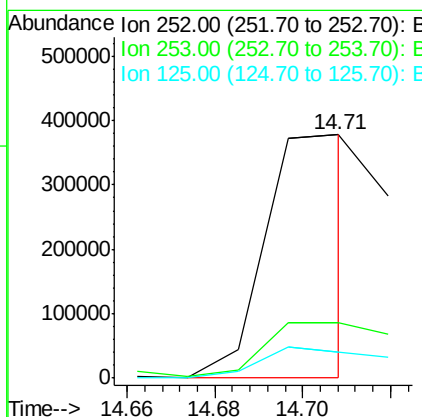
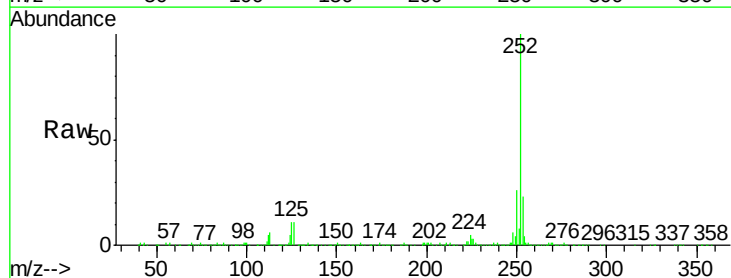
Manual Integrations
APPROVED

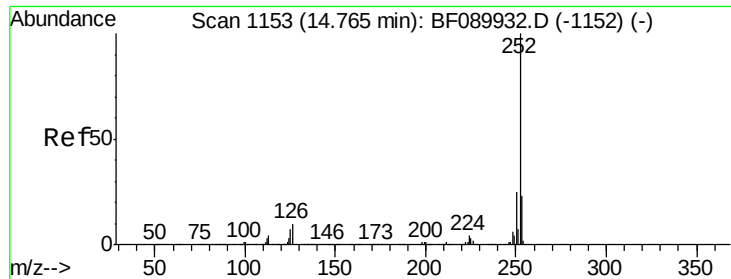
Sohil
9/9/2016 8:40:41 AM



#87
Benzo(b)fluoranthene
Concen: 23.16 ng m
RT: 14.71 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	10.7	5.7	8.5#





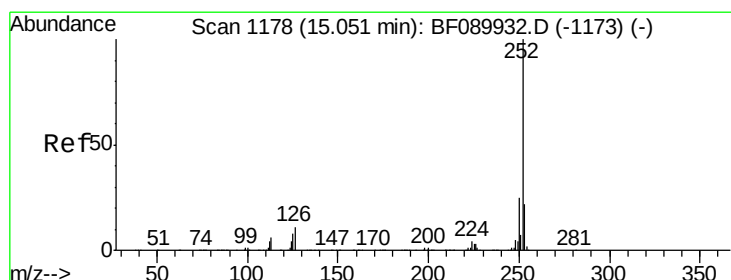
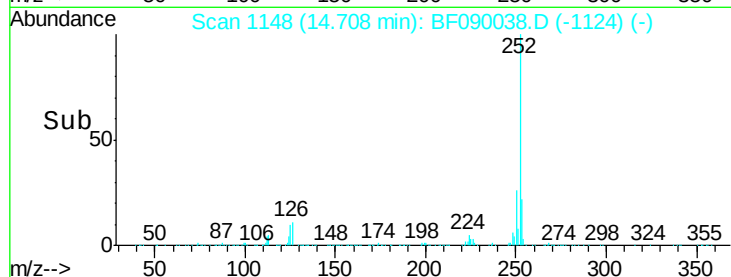
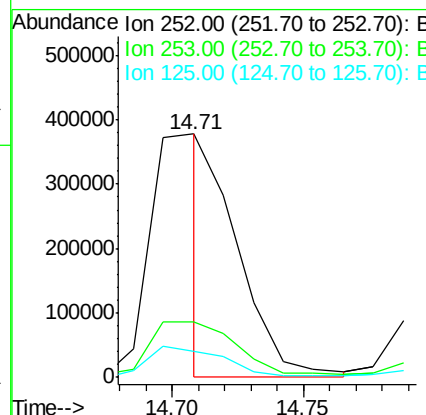
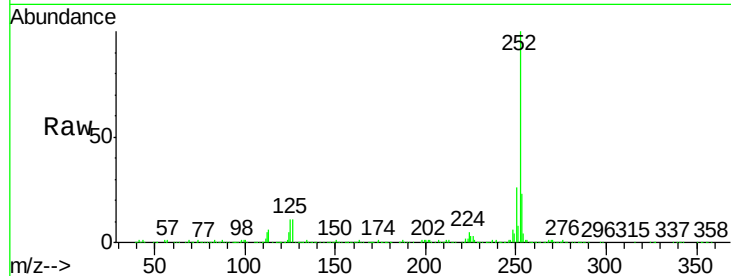
#88
Benzo(k)fluoranthene
Concen: 15.25 ng m
RT: 14.71 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Instrument :
BNA_F
ClientSampled :
COMP-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	10.7	7.3	10.9

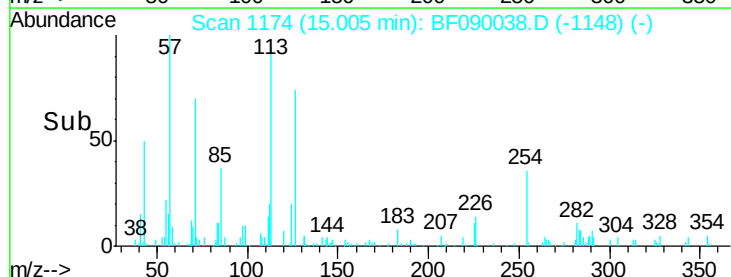
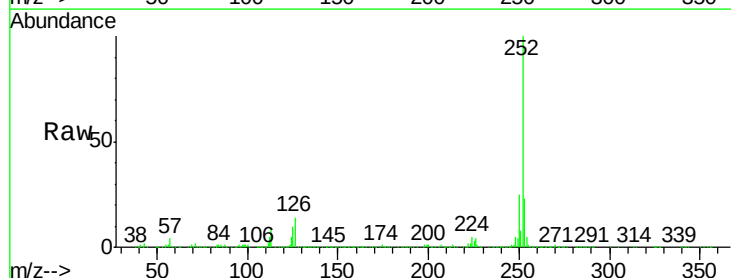
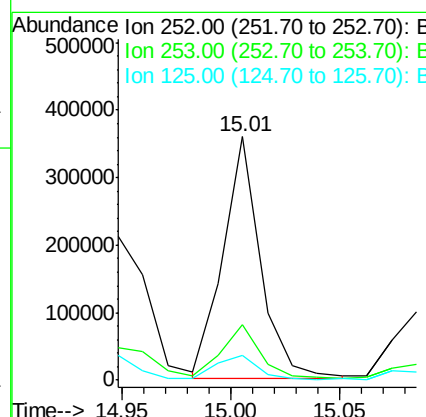
Manual Integrations
APPROVED

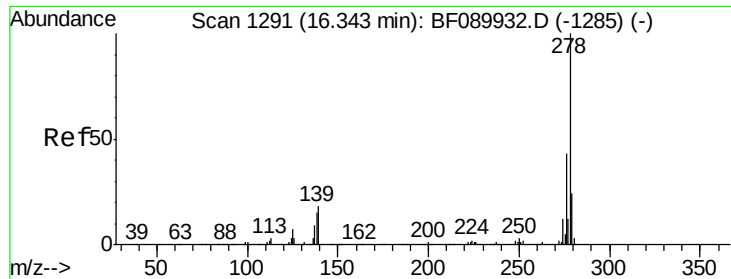
Sohil
9/9/2016 8:40:41 AM



#89
Benzo(a)pyrene
Concen: 21.43 ng
RT: 15.01 min Scan# 1174
Delta R.T. 0.00 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	10.1	6.3	9.5#





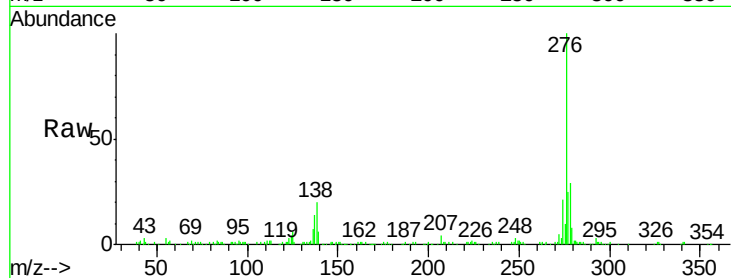
#90
Dibenzo(a,h)anthracene
Concen: 3.34 ng m
RT: 16.27 min Scan# 1285
Delta R.T. -0.02 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Instrument :
BNA_F
ClientSampleId :
COMP-1

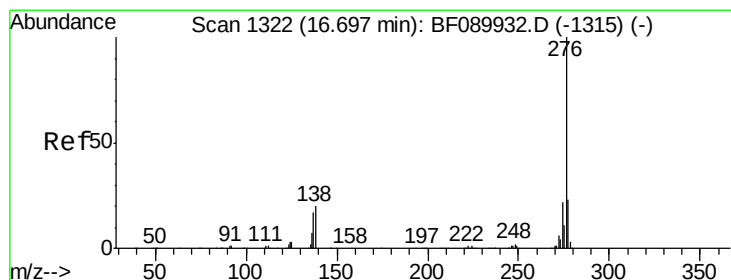
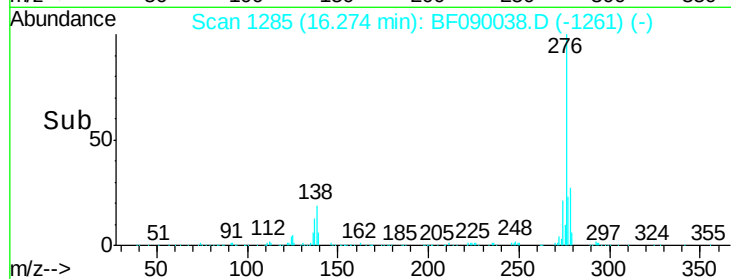
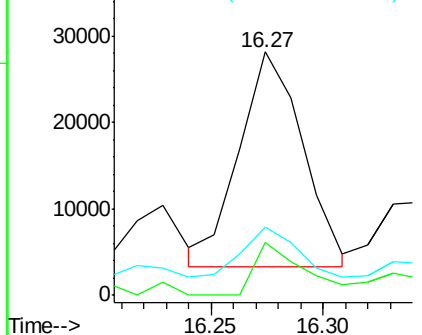
Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.6	13.4	20.2#
279	27.9	19.4	29.2

Manual Integrations
APPROVED

Sohil
9/9/2016 8:40:41 AM

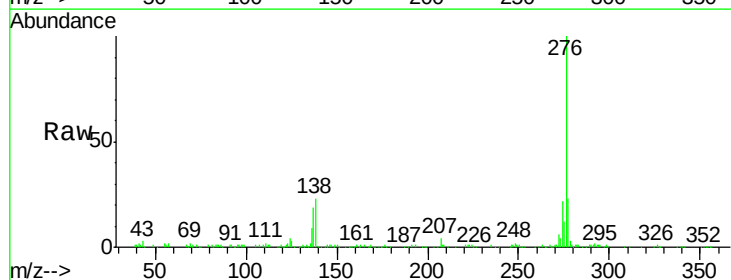


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 14.26 ng
RT: 16.63 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF090038.D
Acq: 8 Sep 2016 21:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	23.3	16.4	24.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

