

Data Path : Z:\HPCHEM1\BNA_F\Data\BF062816\
 Data File : BF088489.D
 Acq On : 28 Jun 2016 20:07
 Operator : UM/SJ
 Sample : H3602-07DL2 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Manual Integrations
 APPROVED

umangi
 6/29/2016 4:41:27 PM

Quant Time: Jun 29 08:36:32 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	97401	20.00	ng	-0.03
21) Naphthalene-d8	7.80	136	426886	20.00	ng	-0.03
38) Acenaphthene-d10	9.55	164	198235	20.00	ng	-0.03
63) Phenanthrene-d10	11.03	188	341202	20.00	ng	-0.03
75) Chrysene-d12	13.66	240	261187	20.00	ng	-0.03
86) Perylene-d12	15.01	264	185162	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0d	0.00	ng	
7) Phenol-d6	0.00	99	0d	0.00	ng	
23) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
44) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
78) Terphenyl-d14	0.00	244	0d	0.00	ng	
Target Compounds						
51) Acenaphthene	9.59	154	218532	17.17	ng	99
54) Dibenzofuran	9.76	168	164231	9.37	ng	94
57) Fluorene	10.10	166	170141	10.68	ng	98
70) Phenanthrene	11.06	178	593549	33.15	ng	97
71) Anthracene	11.11	178	148444	8.22	ng	97
74) Fluoranthene	12.24	202	371851	19.68	ng	97
77) Pyrene	12.47	202	230502	11.89	ng	99
80) Benzo(a)anthracene	13.66	228	39150m	2.63	ng	
82) Chrysene	13.69	228	30913m	2.21	ng	

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

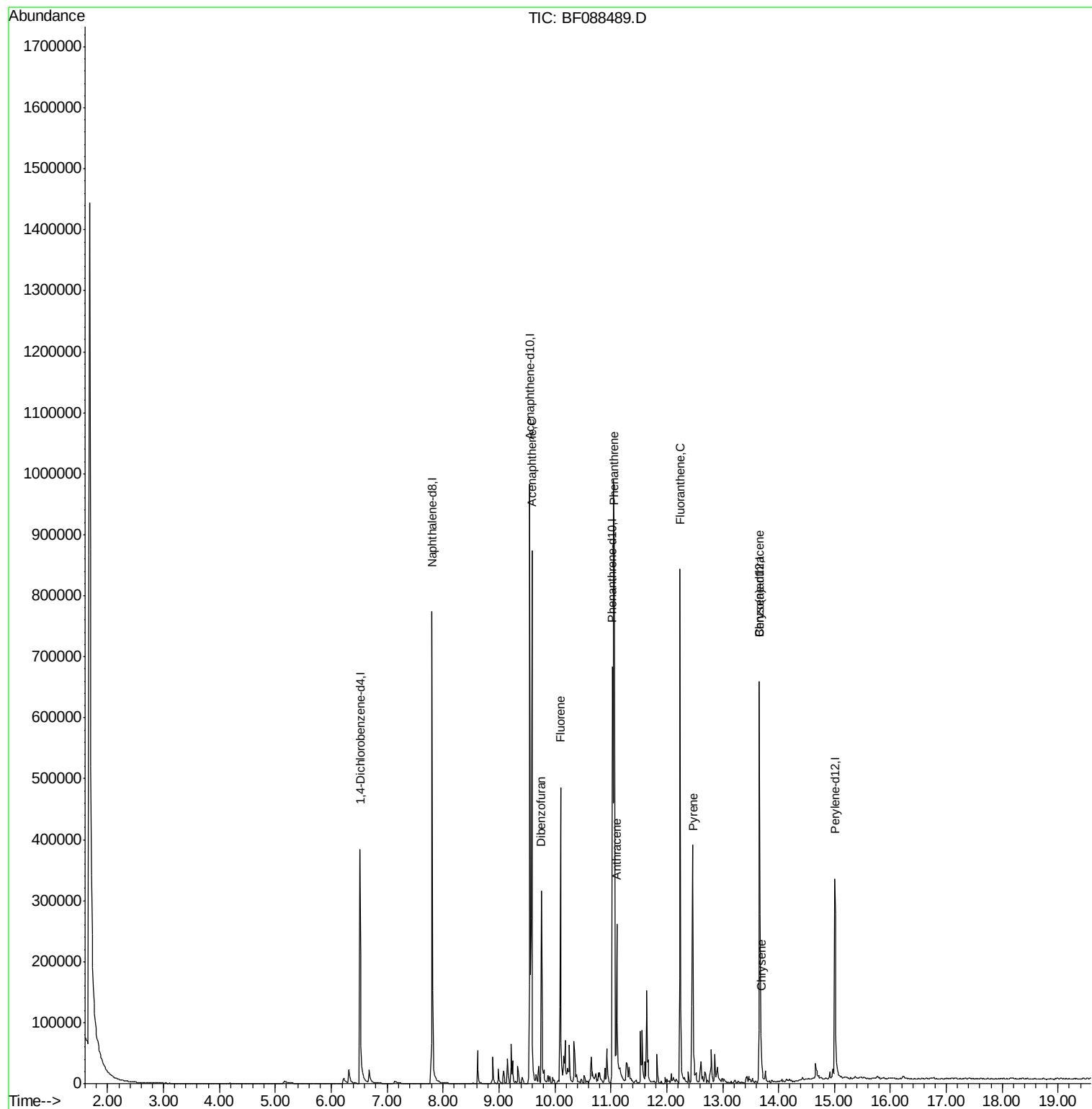
Data Path : Z:\HPCHEM1\BNA_F\Data\BF062816\
Data File : BF088489.D
Acq On : 28 Jun 2016 20:07
Operator : UM/SJ
Sample : H3602-07DL2 50X
Misc :
ALS Vial : 6 Sample Multiplier: 1

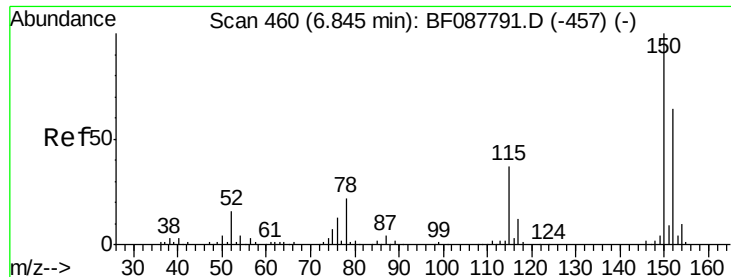
Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL2

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM

Quant Time: Jun 29 08:36:32 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 28 05:25:55 2016
Response via : Initial Calibration





#1

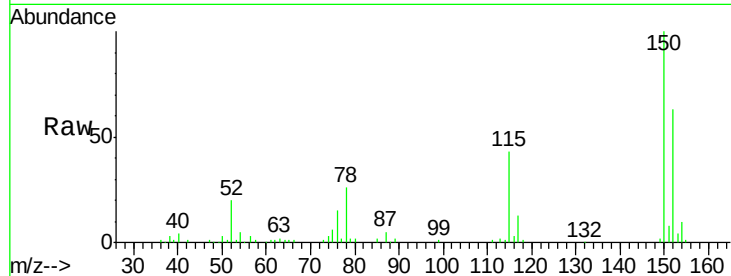
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.51 min Scan# 431
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL2

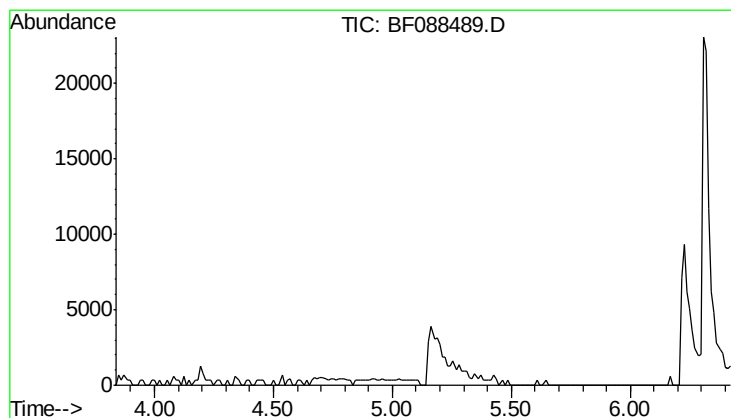
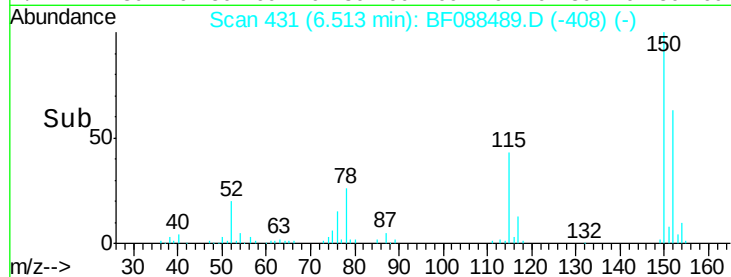
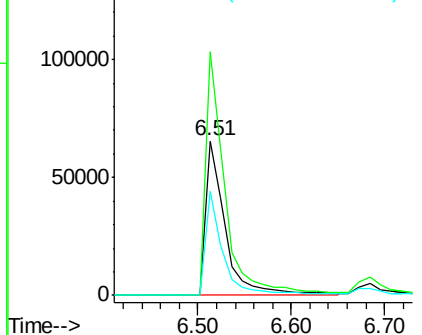
Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.0	123.8	185.6
115	67.2	39.6	59.4

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM



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

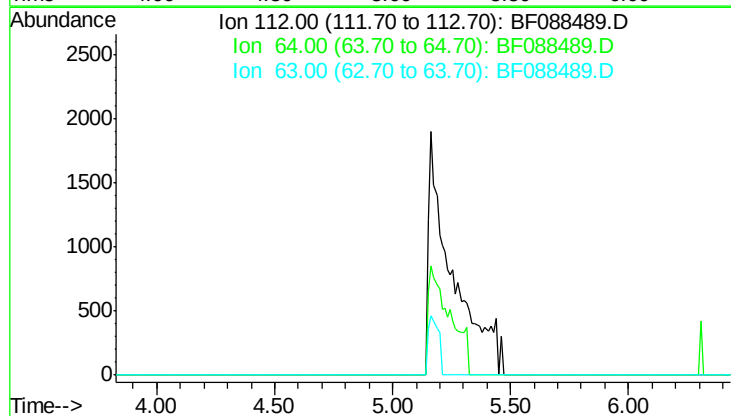


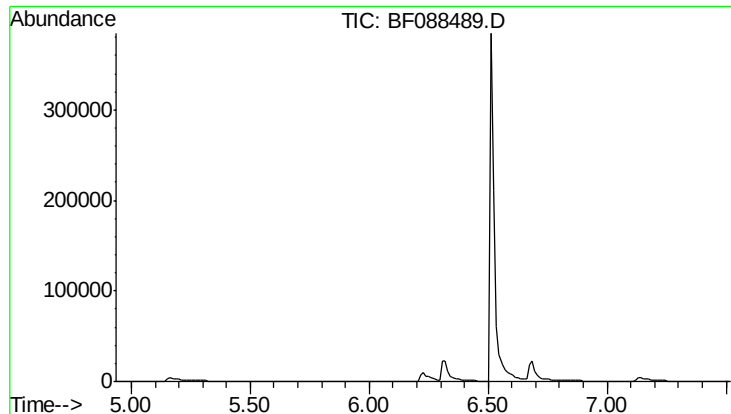
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.13 min

Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion	Sig	Exp Ratio
112	100	
64	52.7	
63	27.3	





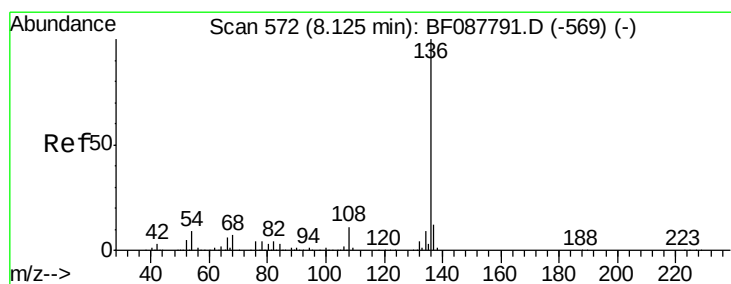
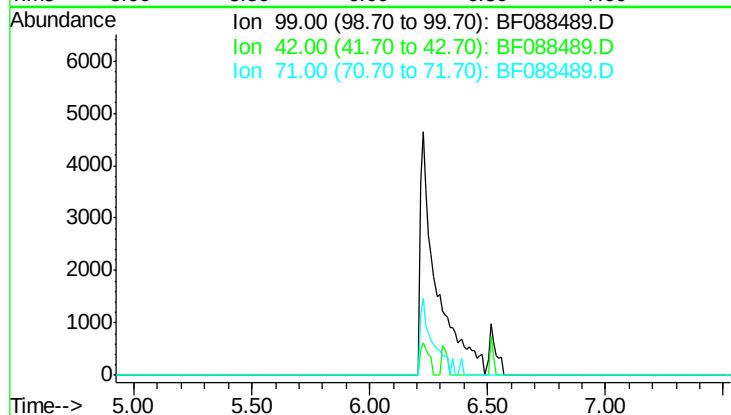
#7
 Phenol-d6
 Concen: 0.00 ng
 Expected RT: 6.23 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Tgt Ion	Exp Ratio
99	100
42	15.2
71	29.2

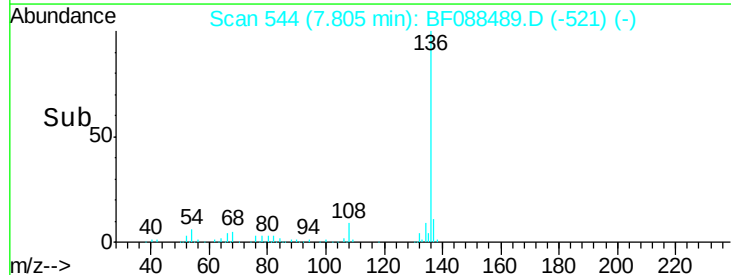
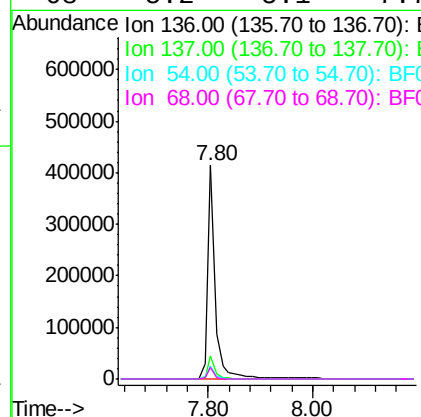
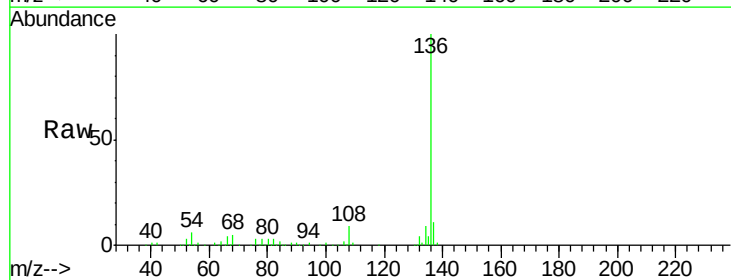
Manual Integrations
 APPROVED

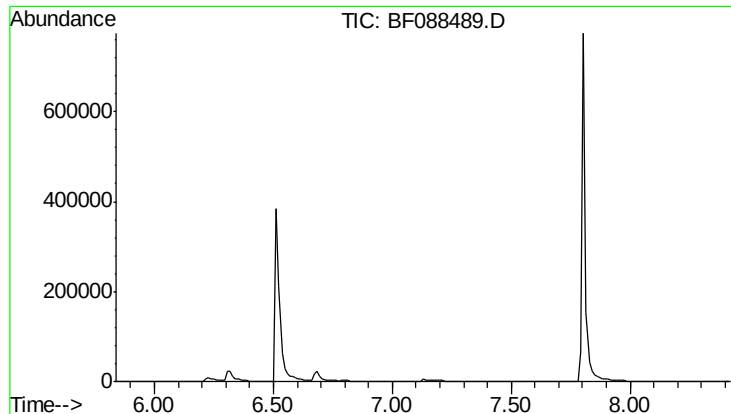
umangi
 6/29/2016 4:41:27 PM



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 7.80 min Scan# 544
 Delta R.T. -0.03 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	5.9	6.6	10.0
68	5.2	5.1	7.7





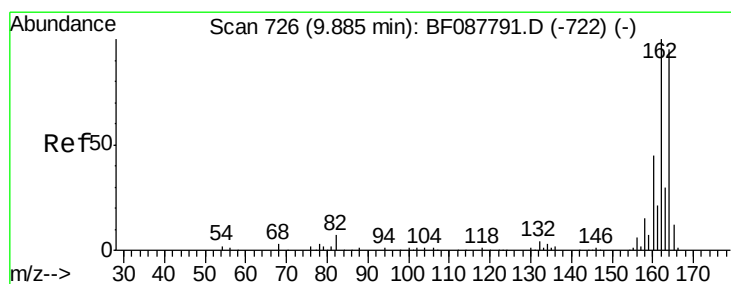
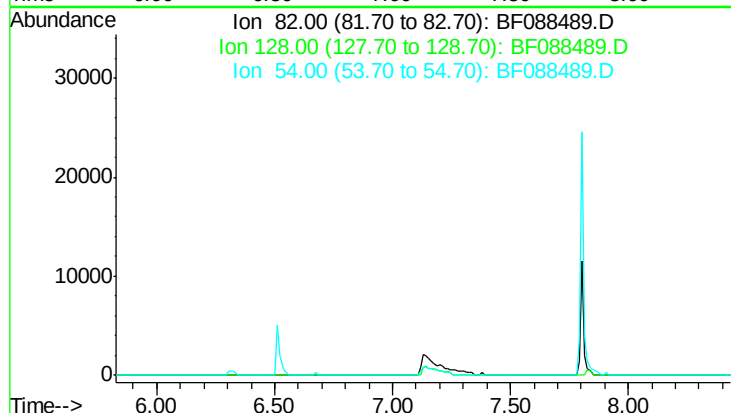
#23
 Nitrobenzene-d5
 Concen: 0.00 ng
 Expected RT: 7.13 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Tgt Ion	Exp Ratio
82	100
128	44.9
54	51.1

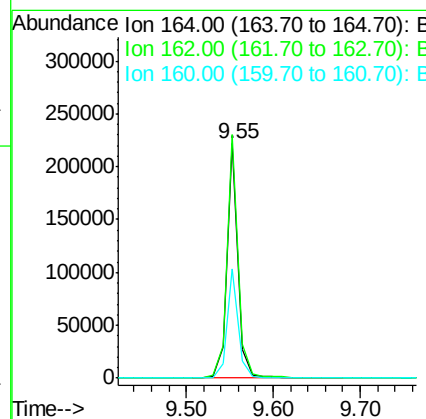
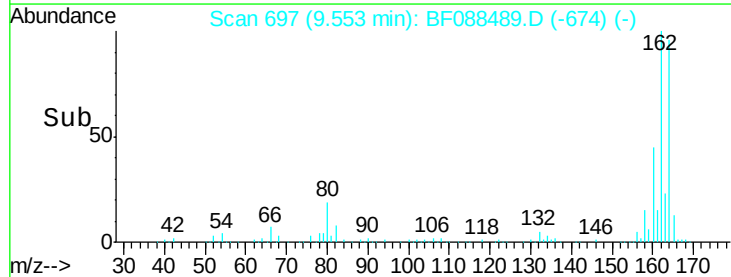
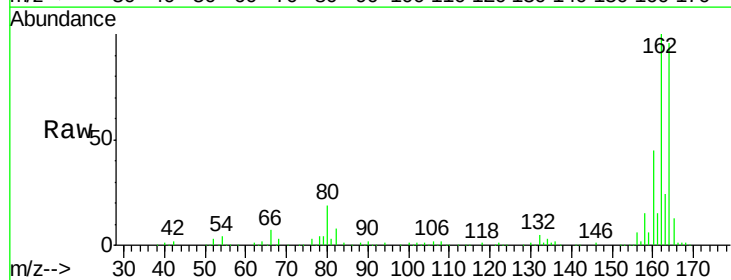
Manual Integrations
 APPROVED

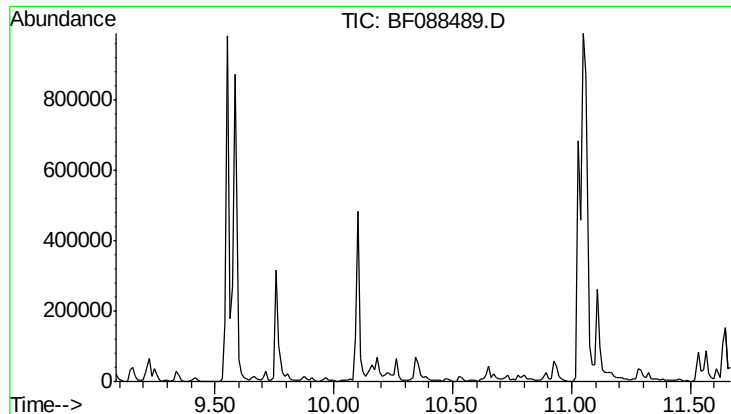
umangi
 6/29/2016 4:41:27 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.03 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	198235		
162	103.8		85.4	128.2
160	46.6		39.5	59.3





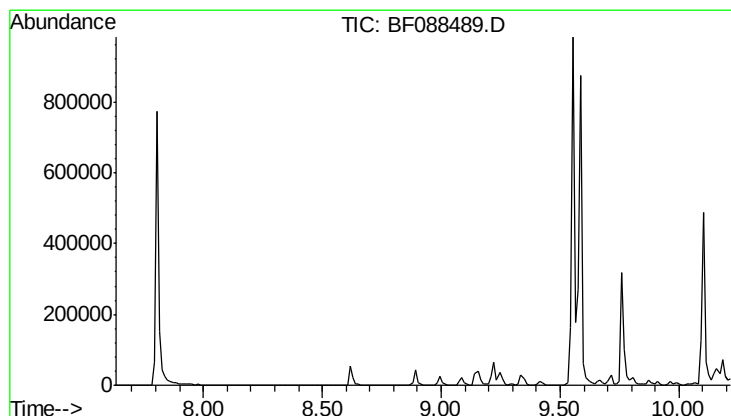
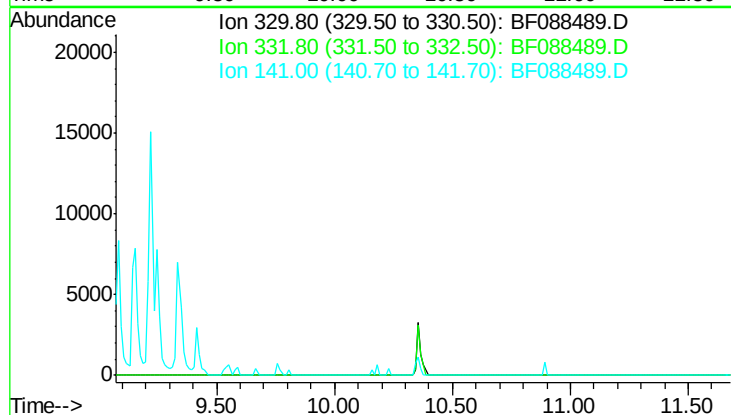
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.38 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion	Exp Ratio
330	100
332	0.0
141	0.0

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

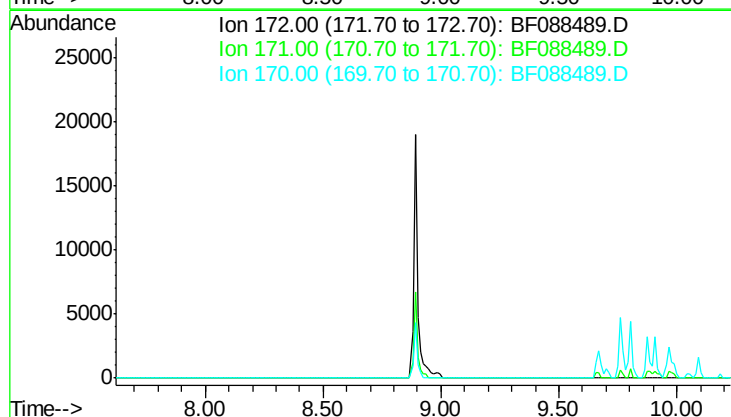
Manual Integrations
 APPROVED

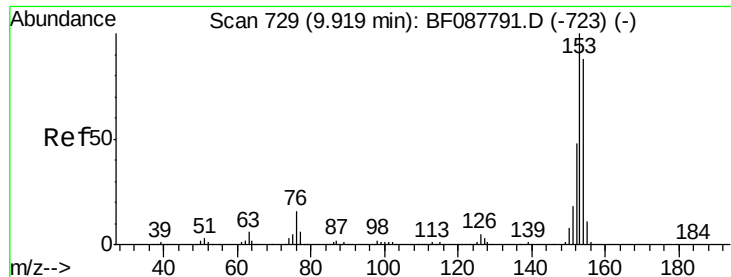
umangi
 6/29/2016 4:41:27 PM



#44
 2-Fluorobiphenyl
 Concen: 0.00 ng
 Expected RT: 8.92 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion	Exp Ratio
172	100
171	35.8
170	24.0





#51

Acenaphthene

Concen: 17.17 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

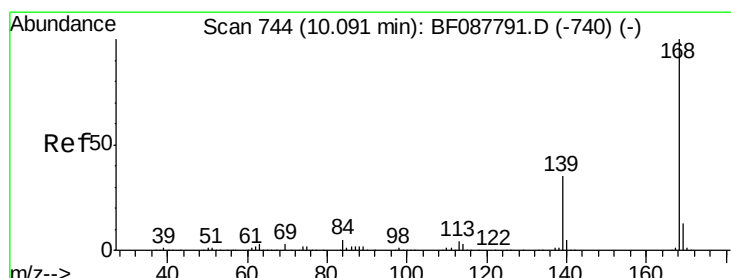
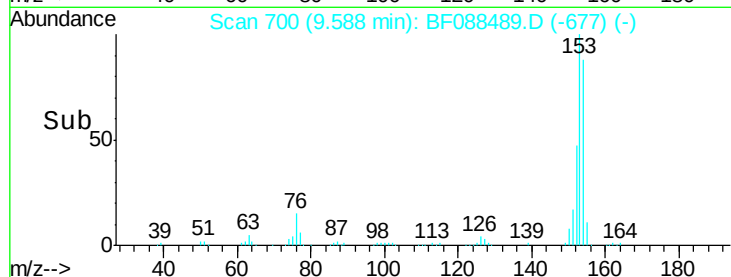
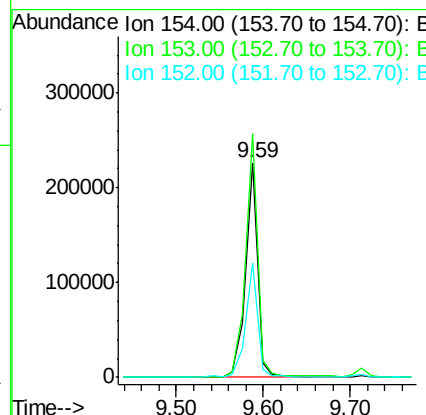
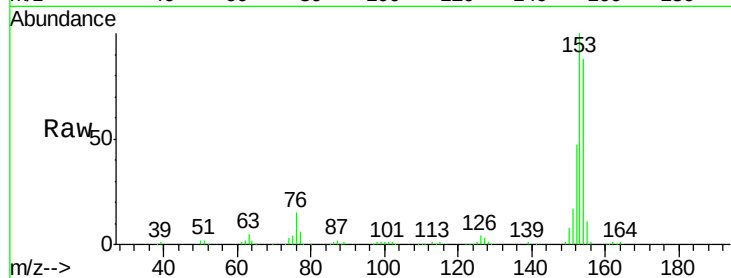
ClientSampleId :

Q8-B4(0-2)CDL2

Tgt Ion:	154	Resp:	218532
Ion Ratio	Lower	Upper	
154	100		
153	113.4	89.5	134.3
152	53.1	42.7	64.1

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM



#54

Dibenzofuran

Concen: 9.37 ng

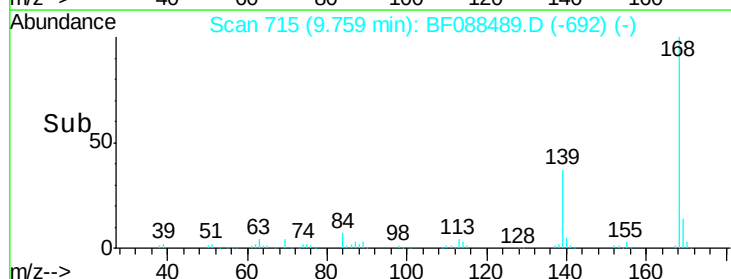
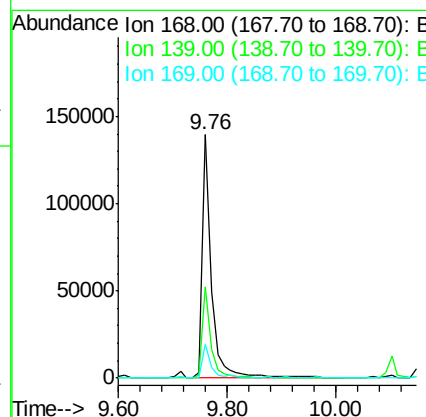
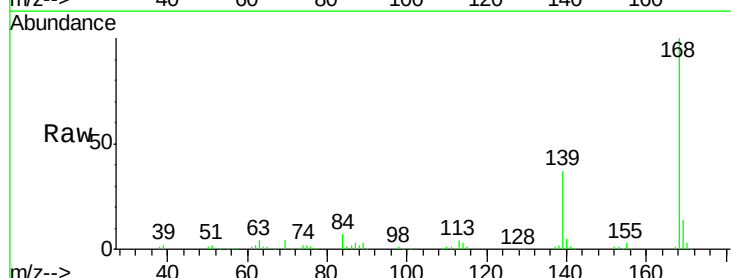
RT: 9.76 min Scan# 715

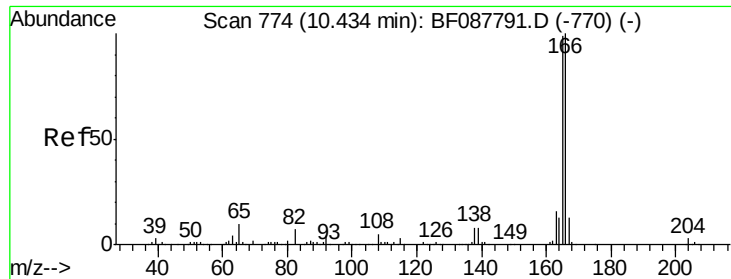
Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Tgt Ion:	168	Resp:	164231
Ion Ratio	Lower	Upper	
168	100		
139	37.5	26.4	39.6
169	13.6	10.4	15.6





#57

Fluorene

Concen: 10.68 ng

RT: 10.10 min Scan# 745

Delta R.T. -0.03 min

Lab File: BF088489.D

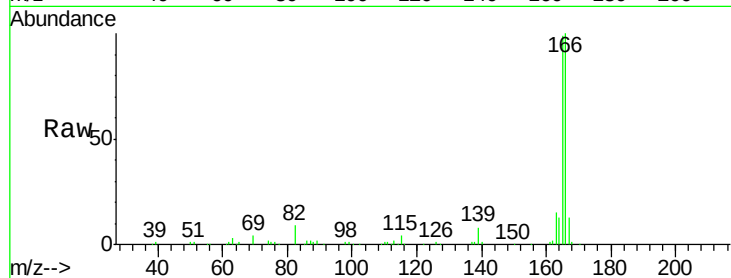
Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

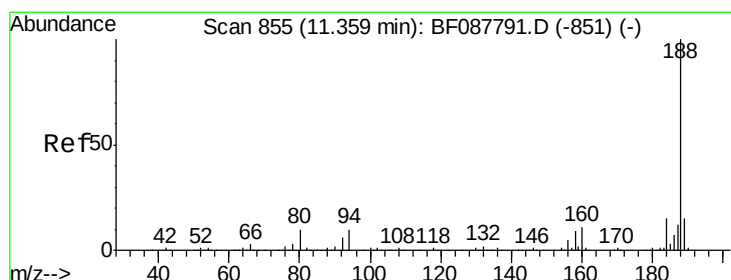
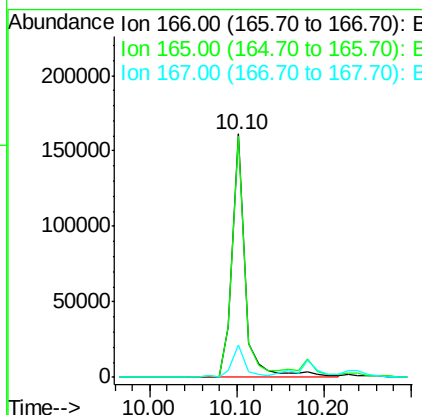
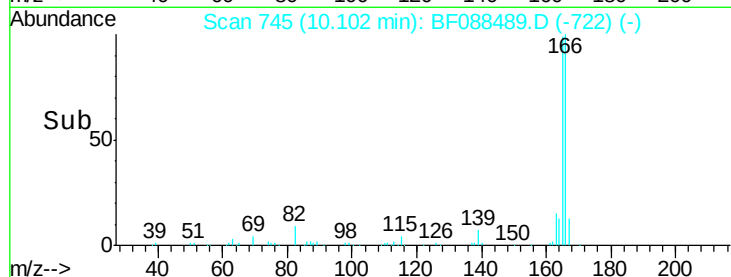
Q8-B4(0-2)CDL2



Tgt Ion:	166	Resp:	170141
Ion Ratio	Lower	Upper	
166	100		
165	99.1	77.8	116.8
167	13.2	11.2	16.8

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM



#63

Phenanthrene-d10

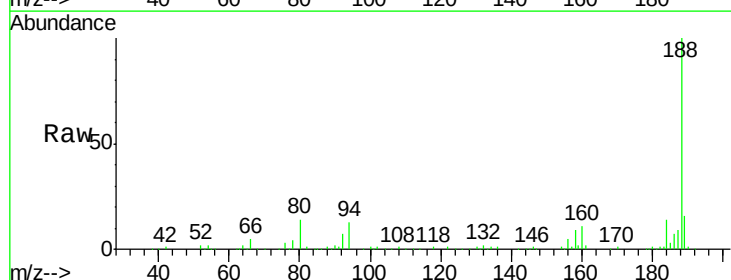
Concen: 20.00 ng

RT: 11.03 min Scan# 826

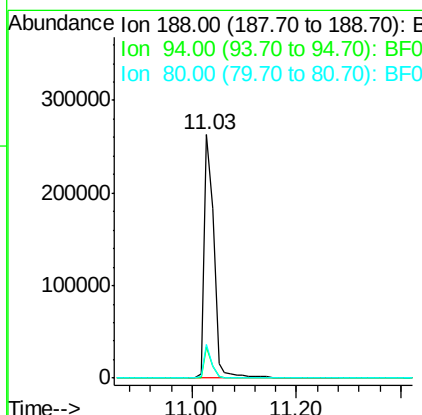
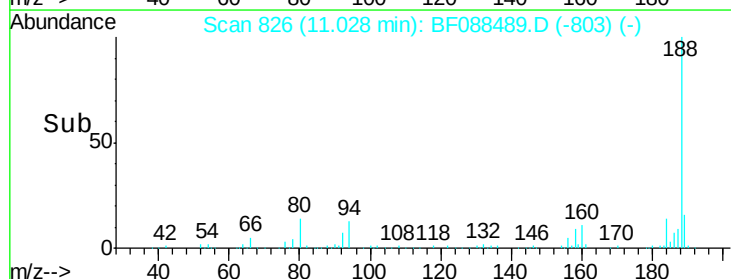
Delta R.T. -0.03 min

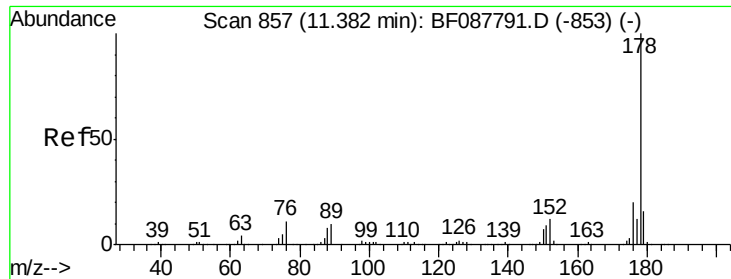
Lab File: BF088489.D

Acq: 28 Jun 2016 20:07



Tgt Ion:	188	Resp:	341202
Ion Ratio	Lower	Upper	
188	100		
94	12.7	9.0	13.6
80	13.6	10.0	15.0





#70

Phenanthrene

Concen: 33.15 ng

RT: 11.06 min Scan# 829

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

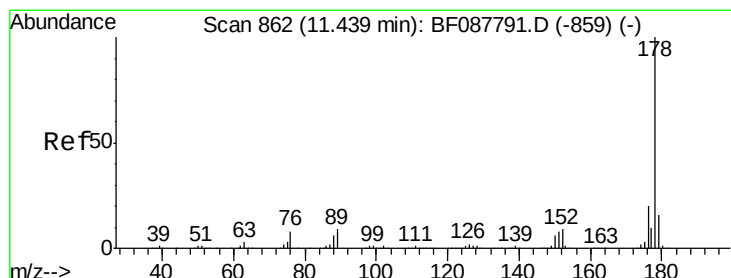
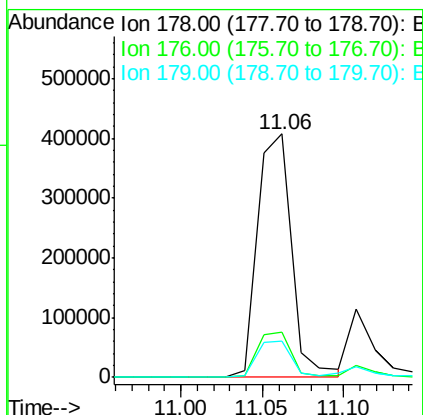
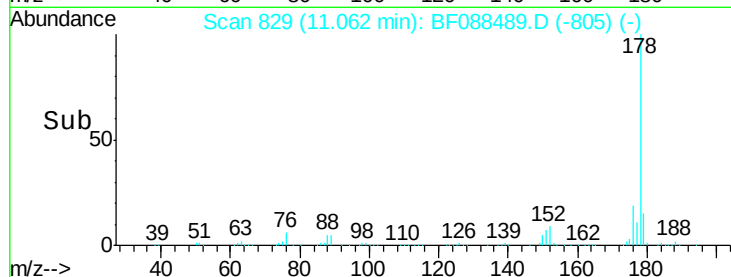
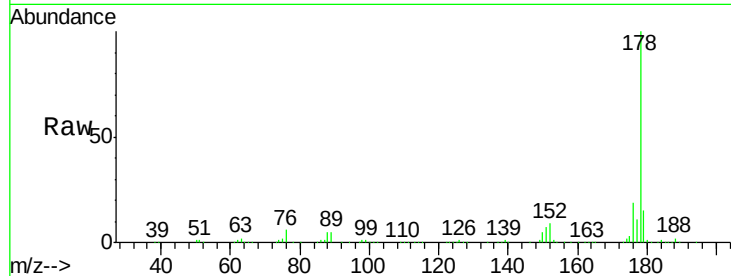
ClientSampleId :

Q8-B4(0-2)CDL2

Tgt Ion:	178	Resp:	593549
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.8	23.6
179	14.8	13.0	19.4

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM



#71

Anthracene

Concen: 8.22 ng

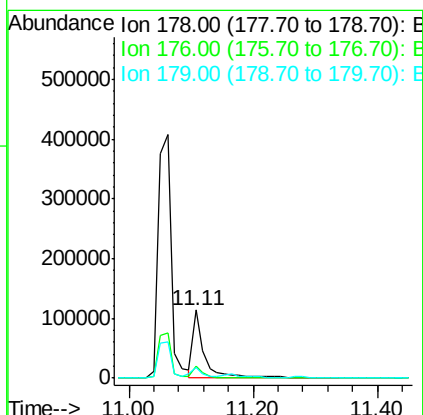
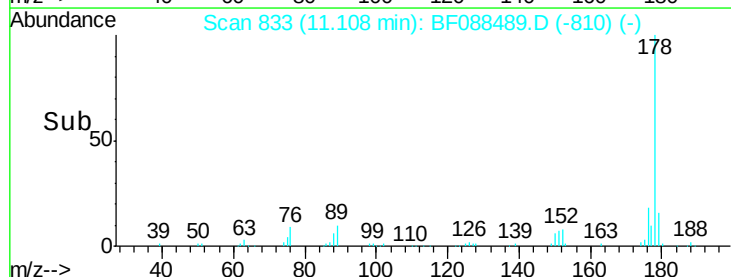
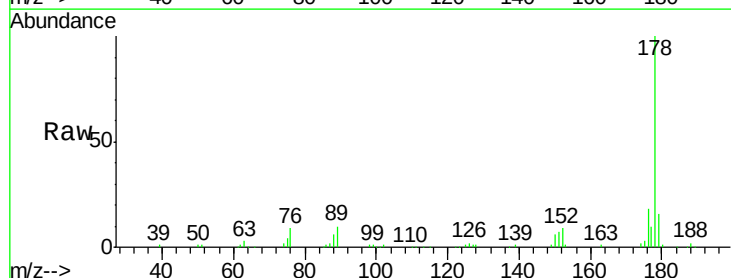
RT: 11.11 min Scan# 833

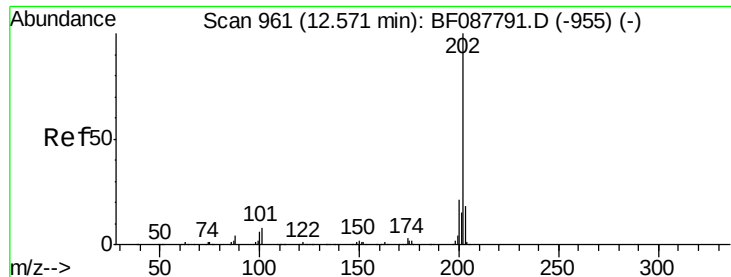
Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Tgt Ion:	178	Resp:	148444
Ion Ratio	Lower	Upper	
178	100		
176	17.8	15.6	23.4
179	16.5	12.8	19.2





#74

Fluoranthene

Concen: 19.68 ng

RT: 12.24 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

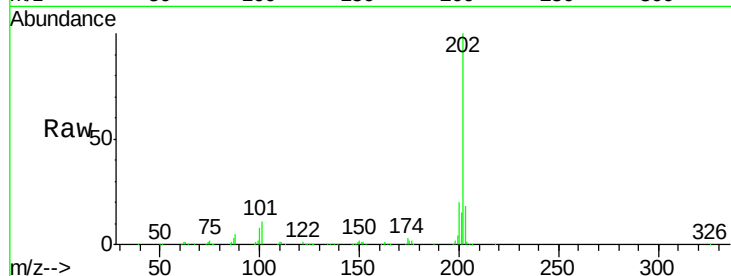
ClientSampleId :

Q8-B4(0-2)CDL2

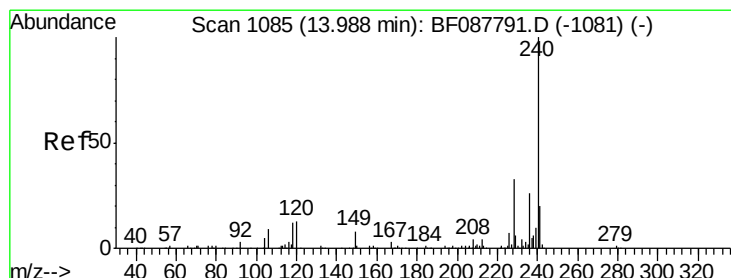
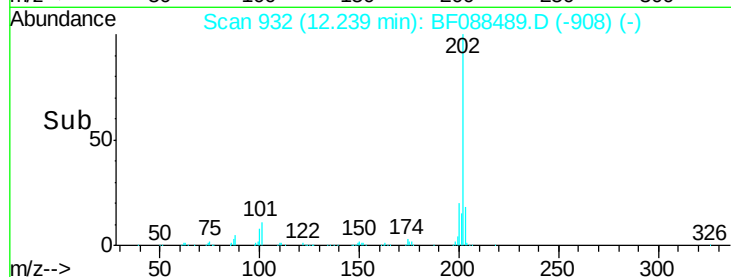
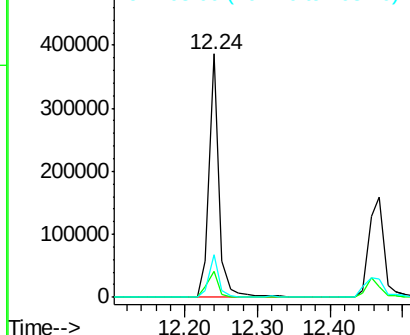
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		371851		
101	10.8	0.0	33.1		
203	17.6	0.0	38.1		

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM



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



#75

Chrysene-d12

Concen: 20.00 ng

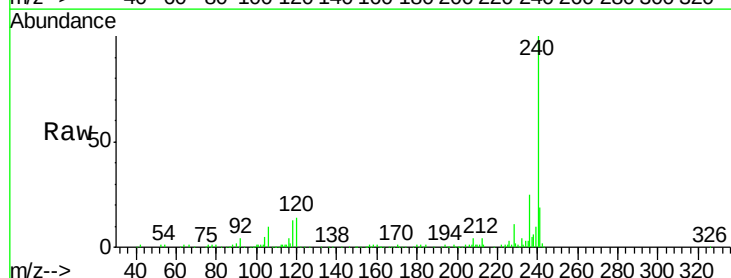
RT: 13.66 min Scan# 1056

Delta R.T. -0.03 min

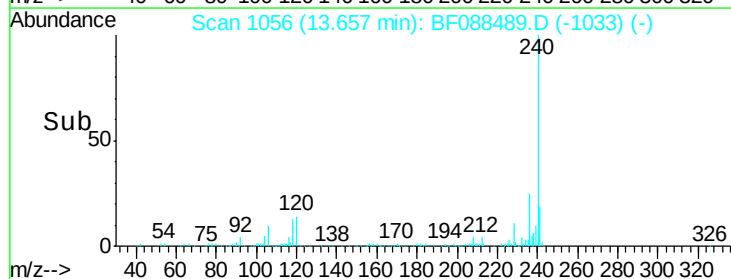
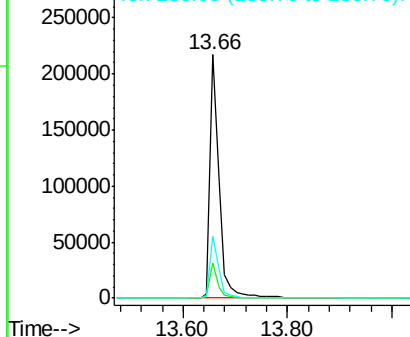
Lab File: BF088489.D

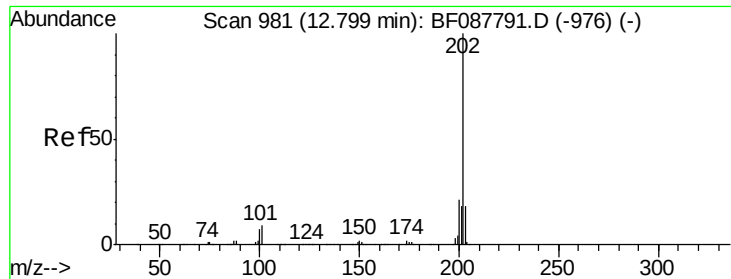
Acq: 28 Jun 2016 20:07

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		261187		
120	14.4	6.8	10.2#		
236	25.3	20.2	30.2		



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





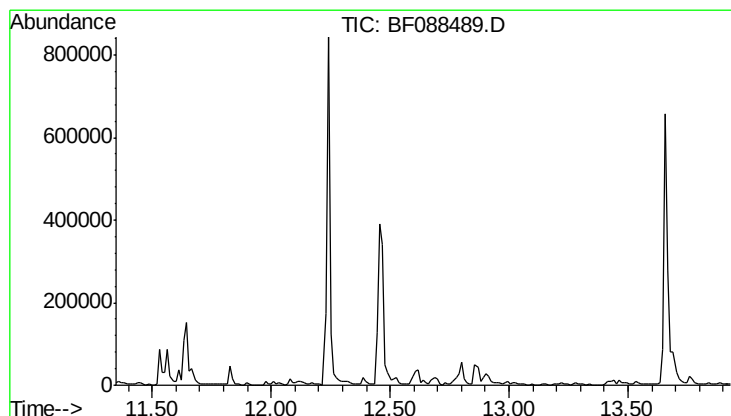
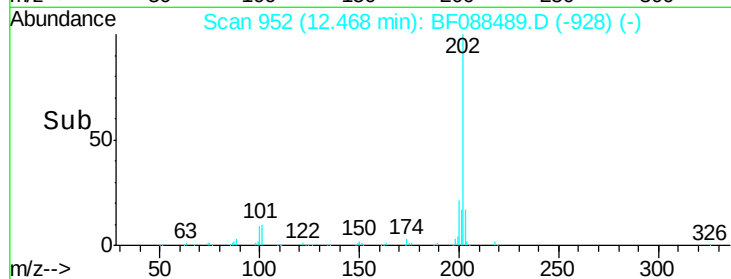
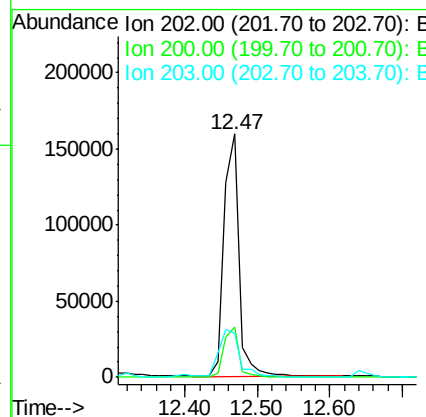
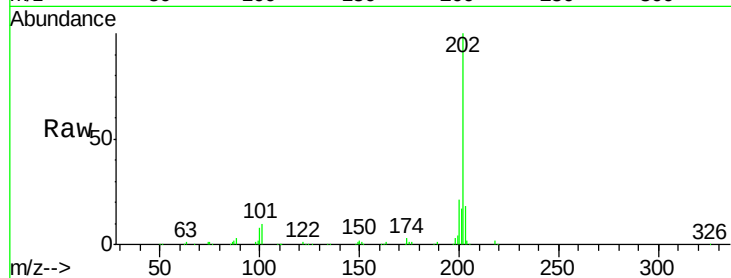
#77
 Pyrene
 Concen: 11.89 ng
 RT: 12.47 min Scan# 952
 Delta R.T. -0.02 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.4	26.2
203	17.9	14.5	21.7

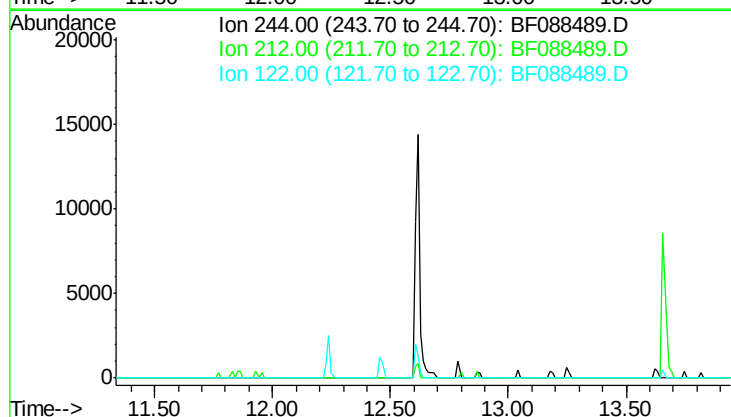
Manual Integrations
 APPROVED

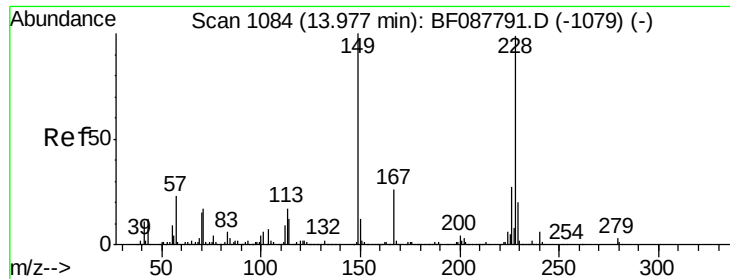
umangi
 6/29/2016 4:41:27 PM



#78
 Terphenyl-d14
 Concen: 0.00 ng
 Expected RT: 12.64 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion	Exp Ratio
244	100
212	7.5
122	14.0





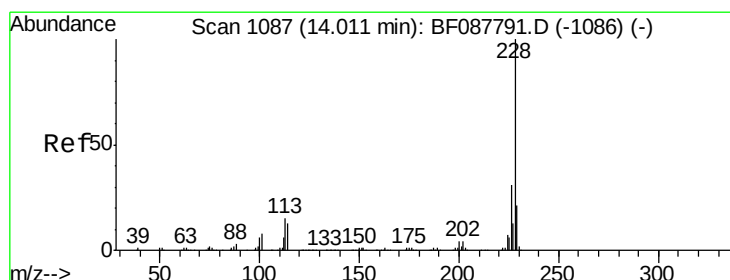
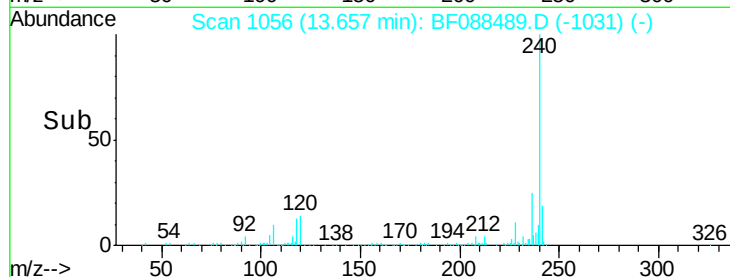
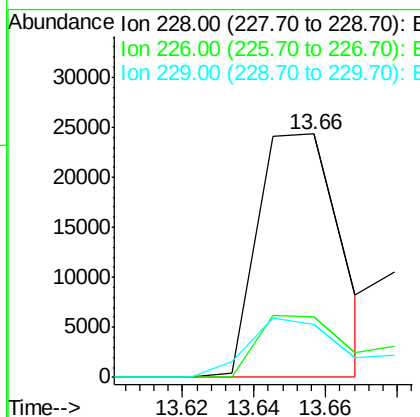
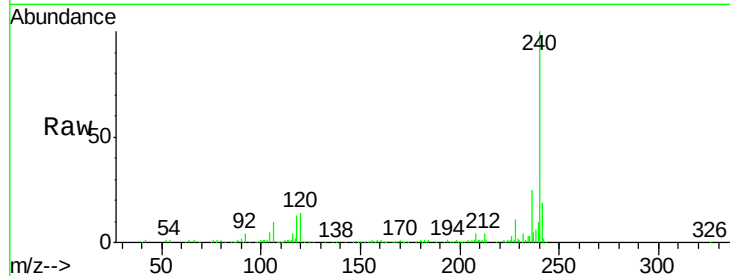
#80
Benzo(a)anthracene
Concen: 2.63 ng m
RT: 13.66 min Scan# 1056
Delta R.T. -0.01 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.1	22.3	33.5
229	21.9	16.0	24.0

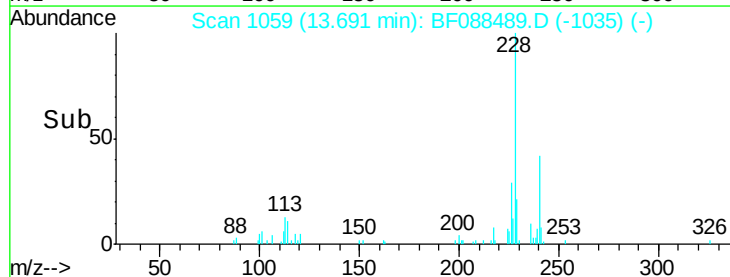
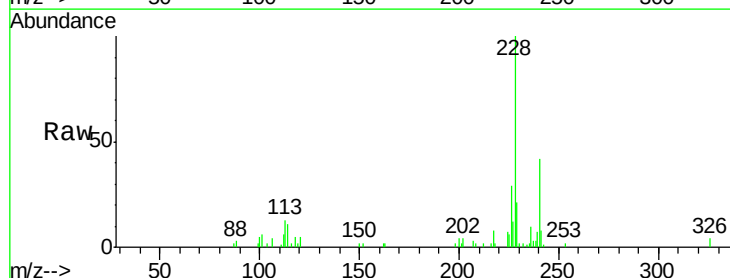
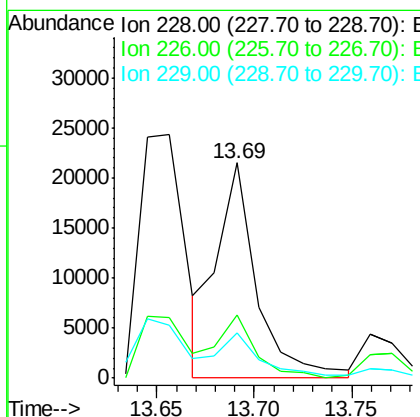
Manual Integrations
APPROVED

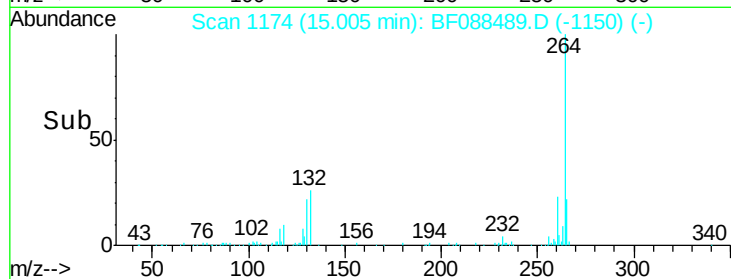
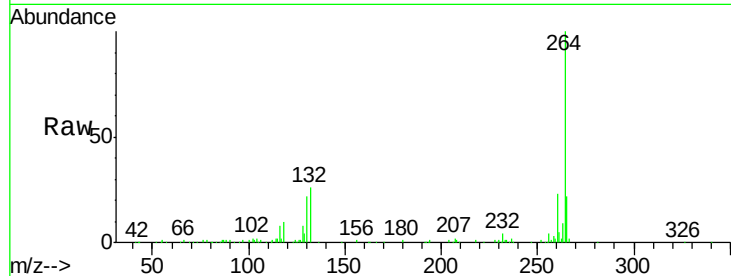
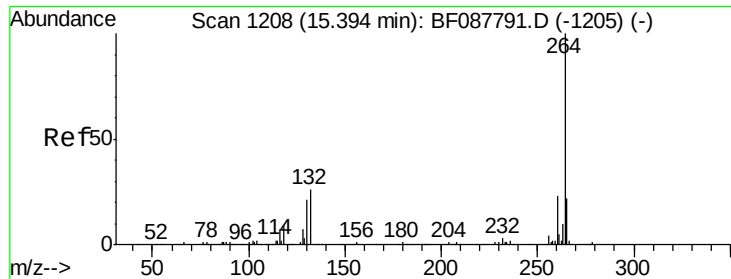
umangi
6/29/2016 4:41:27 PM



#82
Chrysene
Concen: 2.21 ng m
RT: 13.69 min Scan# 1059
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	25.4	38.2
229	21.0	16.3	24.5





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.01 min Scan# 1174
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL2

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100		185162		
260	22.8	19.2	28.8		
265	22.2	16.9	25.3		

Manual Integrations
APPROVED

umangi
6/29/2016 4:41:27 PM

