

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
 Data File : BF085250.D
 Acq On : 5 Mar 2016 13:15
 Operator : SJ/IZ
 Sample : H1675-01DL 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)DL

Manual Integrations
 APPROVED

UMANGI
 3/7/2016 9:33:48 AM

Quant Time: Mar 07 07:22:21 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 00:54:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	123820	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	460405	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	185968	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	298299	20.00	ng	-0.01
75) Chrysene-d12	14.13	240	216189	20.00	ng	-0.02
86) Perylene-d12	15.60	264	210396	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	14908	2.02	ng	-0.01
7) Phenol-d6	6.58	99	21424	2.22	ng	-0.02
23) Nitrobenzene-d5	7.52	82	12711	1.48	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	2227	1.40	ng	-0.01
44) 2-Fluorobiphenyl	9.33	172	28315	2.32	ng	-0.02
78) Terphenyl-d14	13.08	244	17075	1.83	ng	-0.01
Target Compounds						Qvalue
70) Phenanthrene	11.52	178	76768	4.91	ng	96
74) Fluoranthene	12.71	202	115449	7.36	ng	95
77) Pyrene	12.94	202	105369	6.48	ng	96
80) Benzo(a)anthracene	14.12	228	60039	4.64	ng	99
82) Chrysene	14.15	228	43931m	3.67	ng	
85) Indeno(1,2,3-cd)pyrene	17.07	276	22847	2.45	ng	# 80
87) Benzo(b)fluoranthene	15.17	252	70435m	5.02	ng	
89) Benzo(a)pyrene	15.53	252	41197	3.55	ng	# 91
91) Benzo(g,h,i)perylene	17.51	276	21409	2.15	ng	94

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

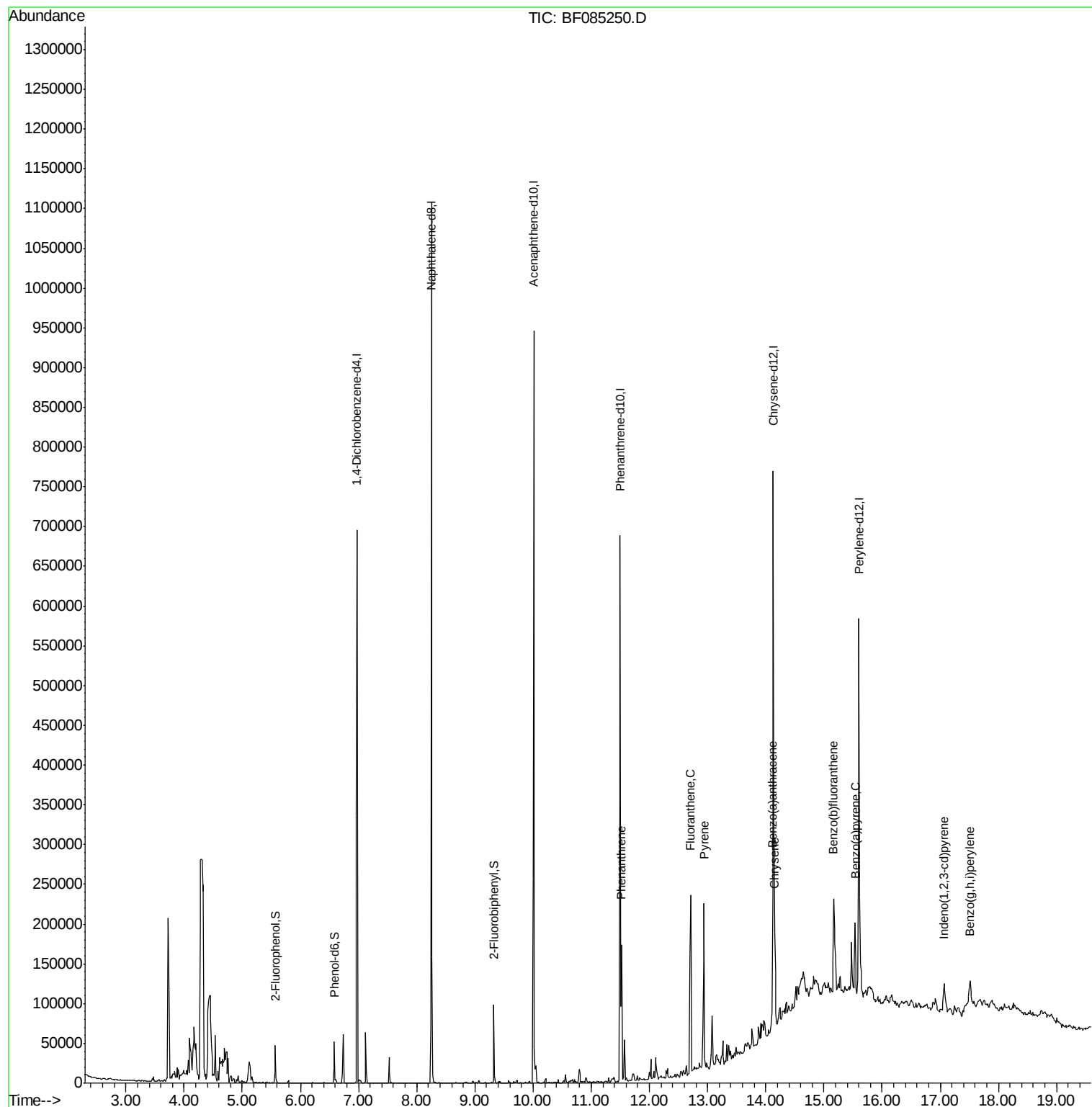
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
Data File : BF085250.D
Acq On : 5 Mar 2016 13:15
Operator : SJ/IZ
Sample : H1675-01DL 50X
Misc :
ALS Vial : 47 Sample Multiplier: 1

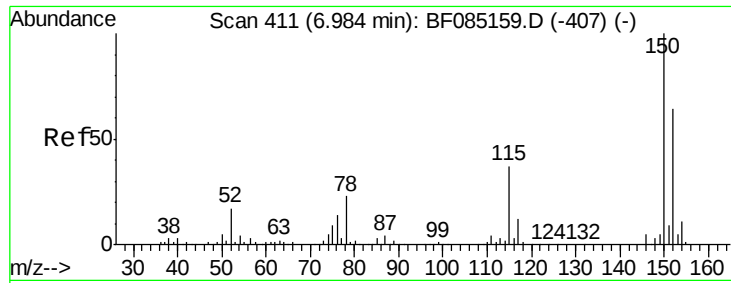
Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)DL

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:48 AM

Quant Time: Mar 07 07:22:21 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 04 00:54:58 2016
Response via : Initial Calibration





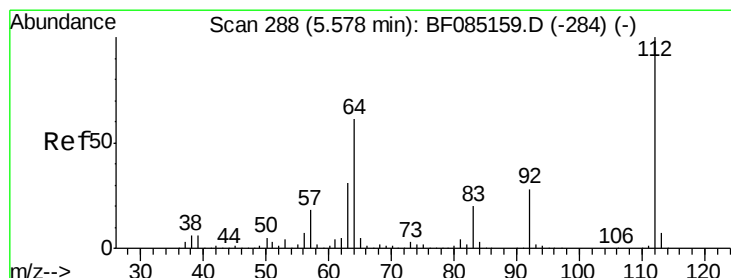
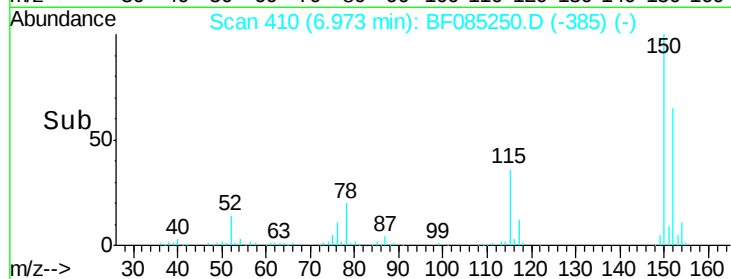
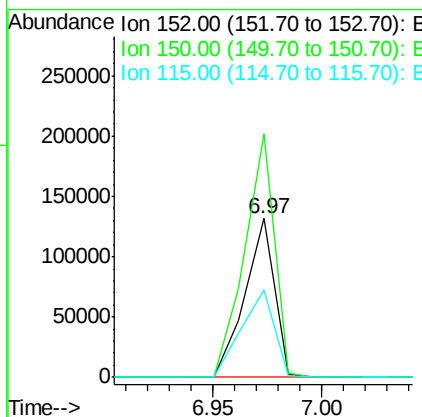
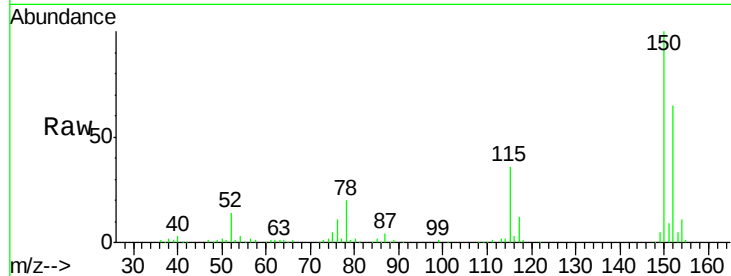
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.97 min Scan# 410
 Delta R.T. -0.01 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Instrument :
 BNA_F
 ClientSampleID :
 SP-001(0-2)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.6	186.8
115	55.2	46.6	70.0

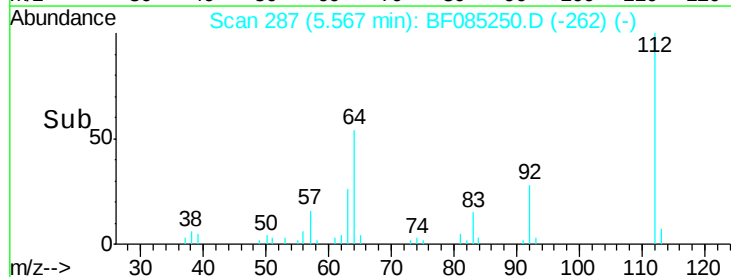
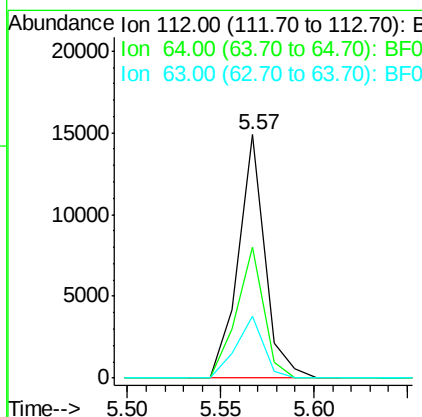
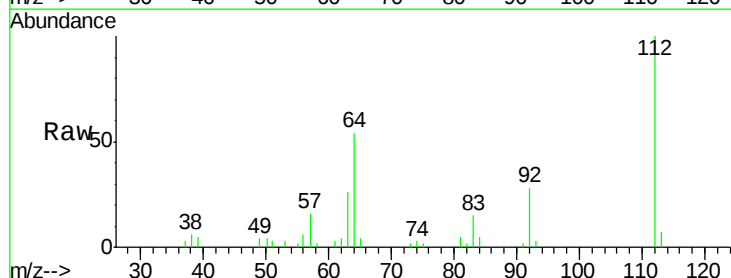
Manual Integrations
 APPROVED

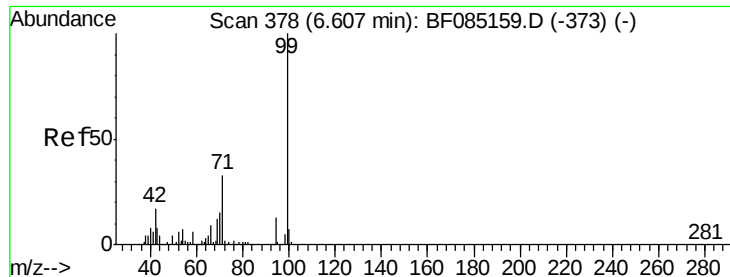
UMANGI
 3/7/2016 9:33:48 AM



#5
 2-Fluorophenol
 Concen: 2.02 ng
 RT: 5.57 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	49.0	73.4
63	25.5	24.8	37.2





#7

Phenol-d6

Concen: 2.22 ng

RT: 6.58 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF085250.D

Acq: 5 Mar 2016 13:15

Instrument :

BNA_F

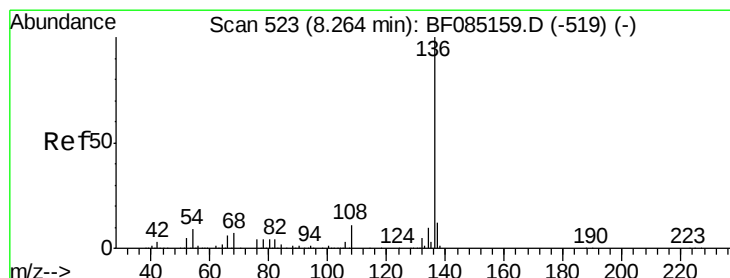
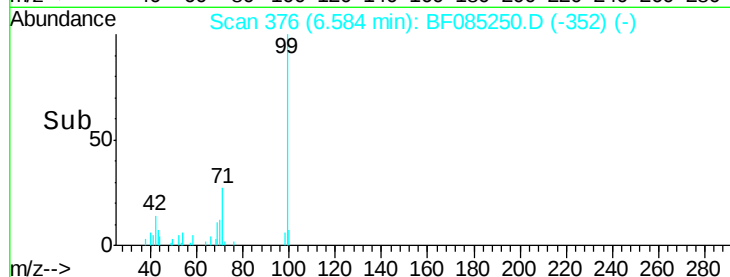
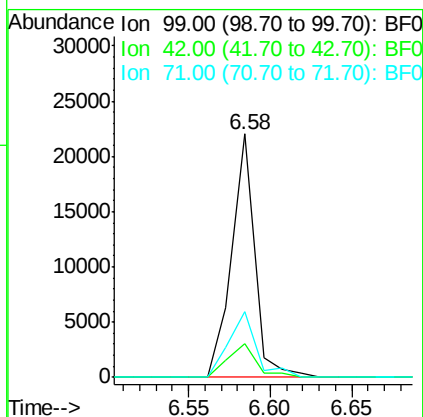
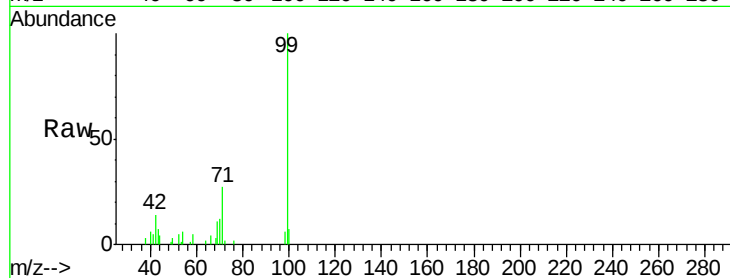
ClientSampleId :

SP-001(0-2)DL

Tot Ion:	99	Resp:	21424
Ion Ratio	Lower	Upper	
99	100		
42	13.6	13.6	20.4
71	27.1	26.7	40.1

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:48 AM



#21

Naphthalene-d8

Concen: 20.00 ng

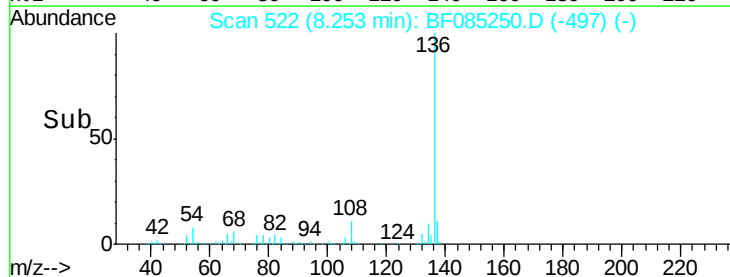
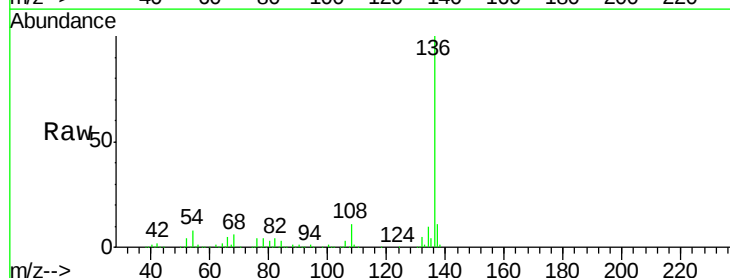
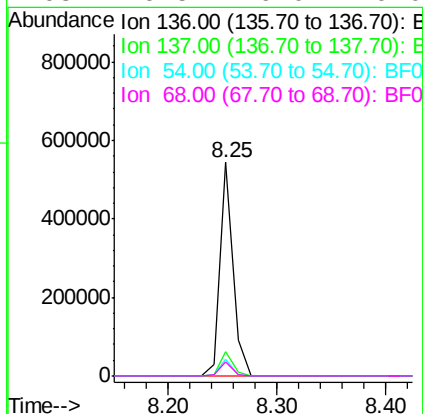
RT: 8.25 min Scan# 522

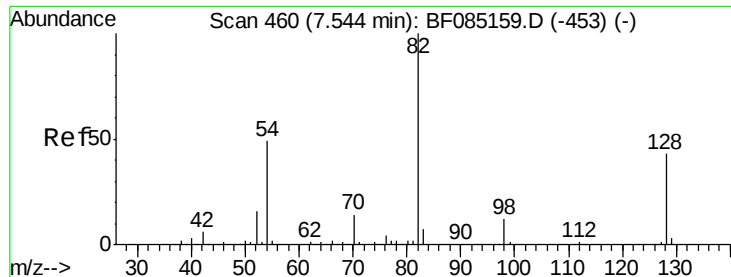
Delta R.T. -0.01 min

Lab File: BF085250.D

Acq: 5 Mar 2016 13:15

Tgt Ion:	136	Resp:	460405
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.3	13.9
54	8.0	7.4	11.2
68	6.5	6.0	9.0





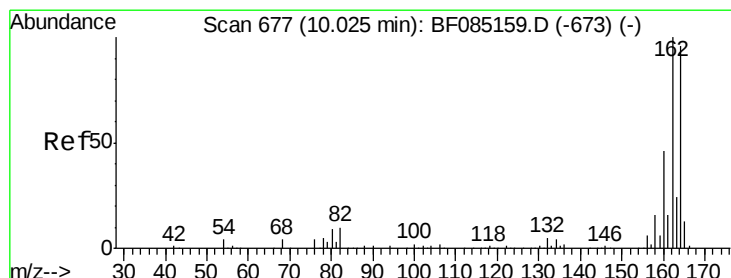
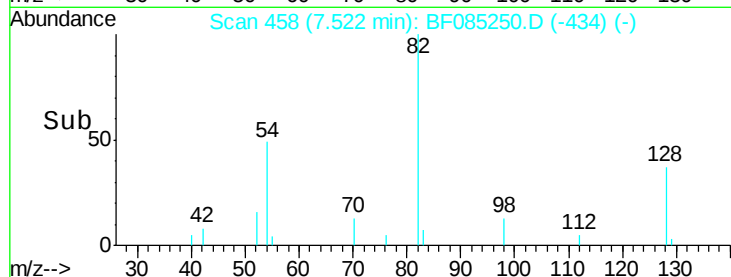
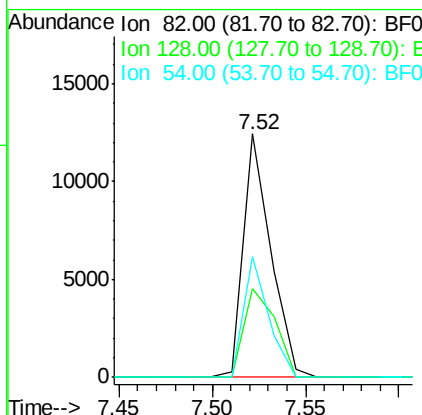
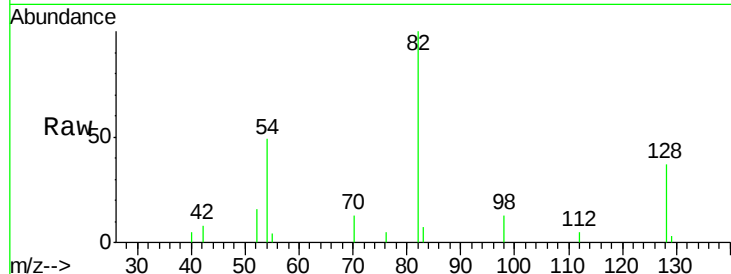
#23
 Nitrobenzene-d5
 Concen: 1.48 ng
 RT: 7.52 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)DL

Tot Ion:	82	Resp:	12711
Ion Ratio	Lower	Upper	
82	100		
128	36.7	34.5	51.7
54	49.4	39.3	58.9

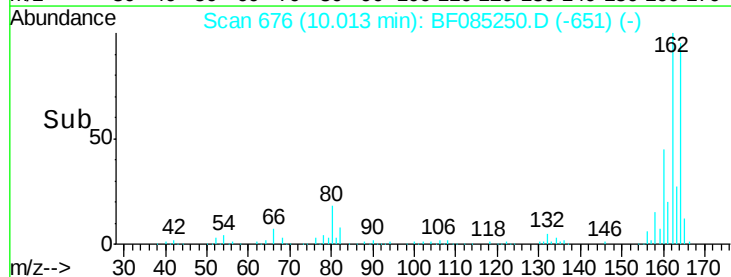
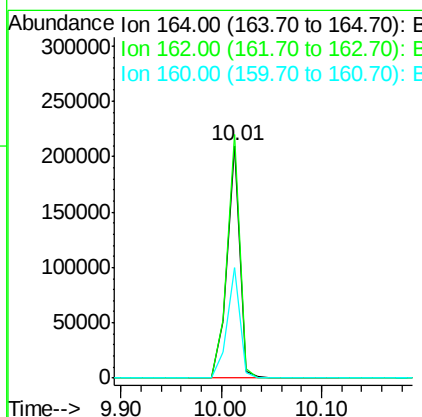
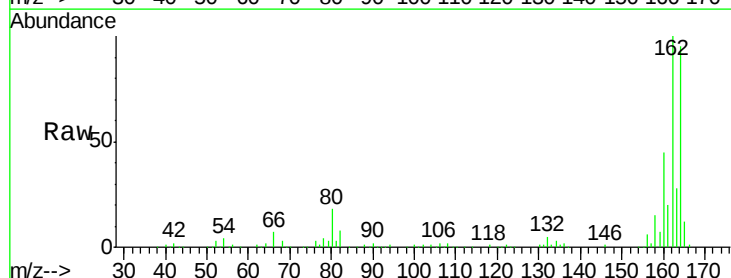
Manual Integrations
 APPROVED

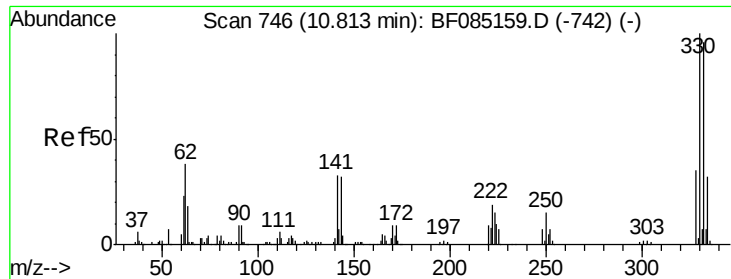
UMANGI
 3/7/2016 9:33:48 AM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.01 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Tgt Ion:	164	Resp:	185968
Ion Ratio	Lower	Upper	
164	100		
162	104.9	83.3	124.9
160	47.5	37.9	56.9





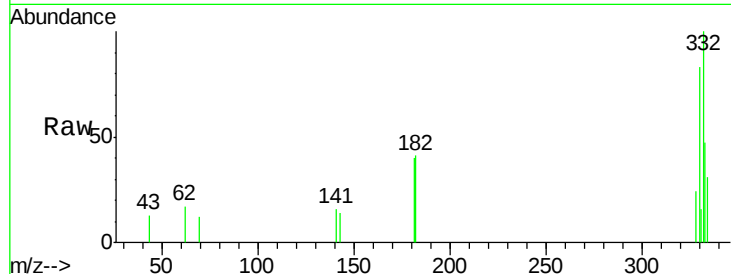
#41
 2,4,6-Tribromophenol
 Concen: 1.40 ng
 RT: 10.80 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)DL

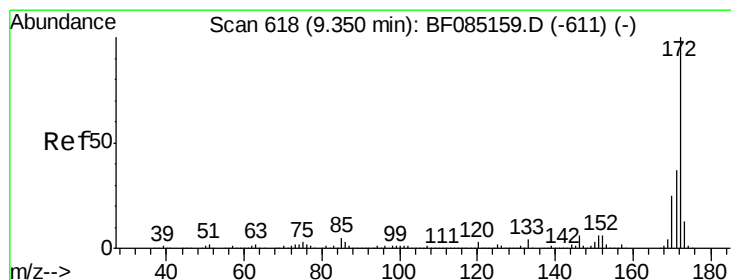
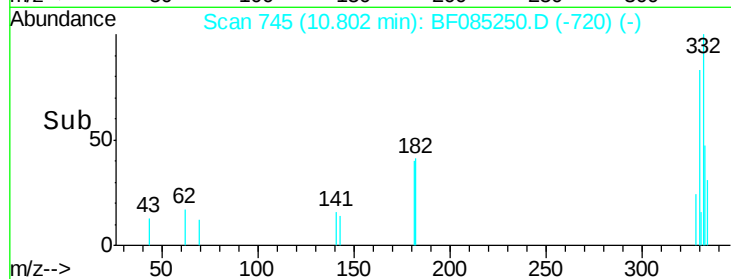
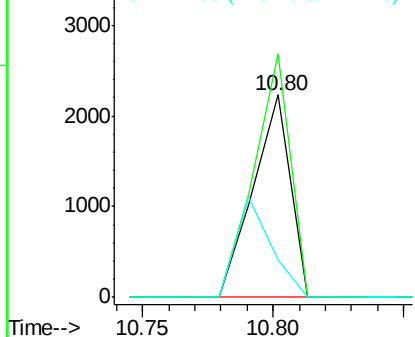
Tot Ion	Ratio	Lower	Upper
330	100		
332	117.8	77.1	115.7#
141	47.0	35.0	52.6

Manual Integrations
 APPROVED

UMANGI
 3/7/2016 9:33:48 AM



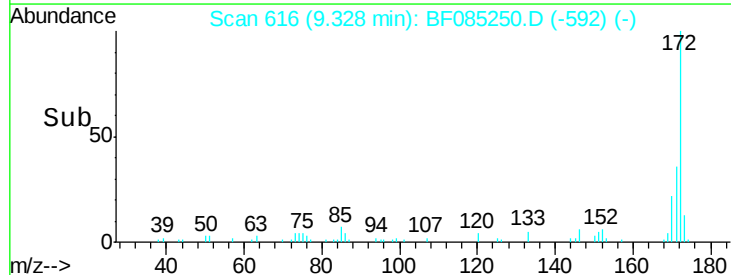
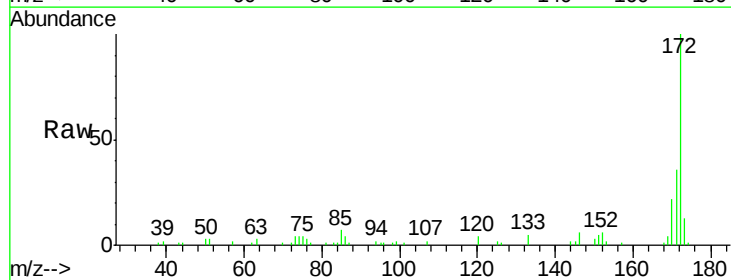
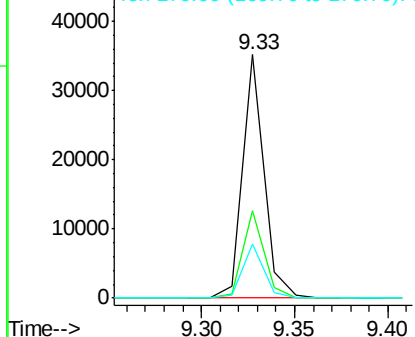
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

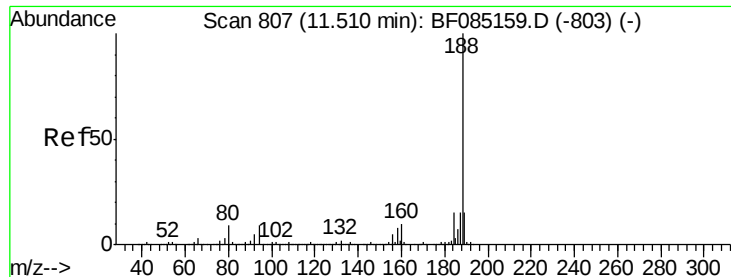


#44
 2-Fluorobiphenyl
 Concen: 2.32 ng
 RT: 9.33 min Scan# 616
 Delta R.T. -0.02 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.3	43.9
170	22.2	20.0	30.0

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





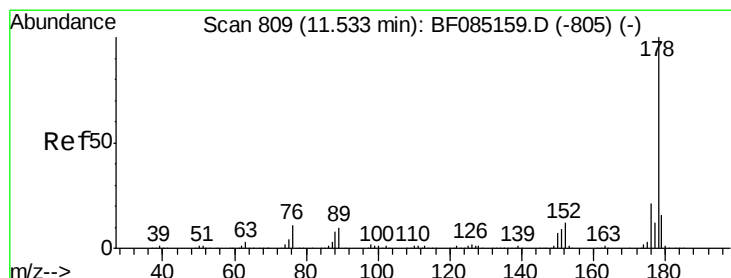
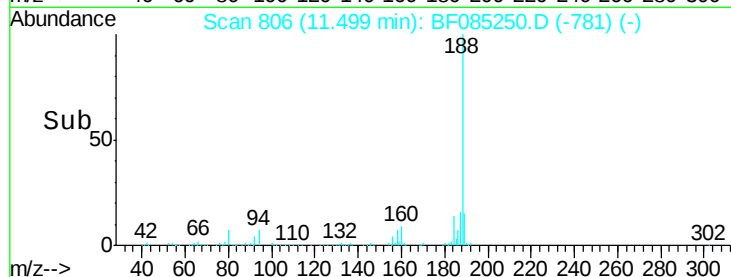
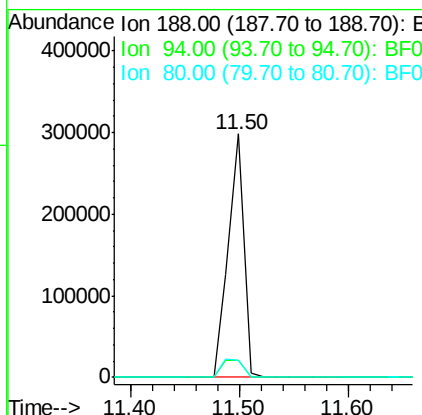
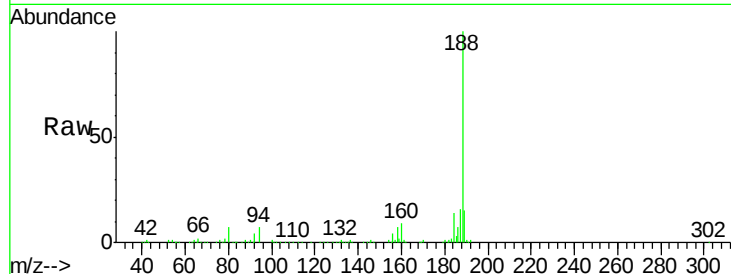
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.50 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.0	7.0	10.6
80	7.1	7.4	11.0#

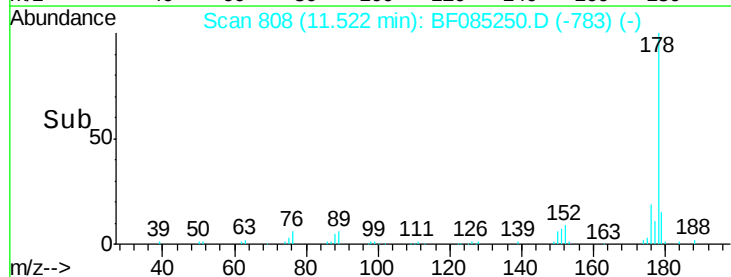
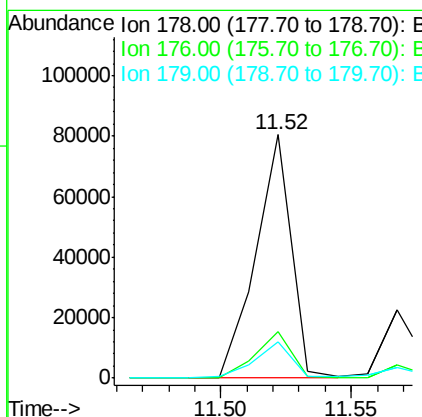
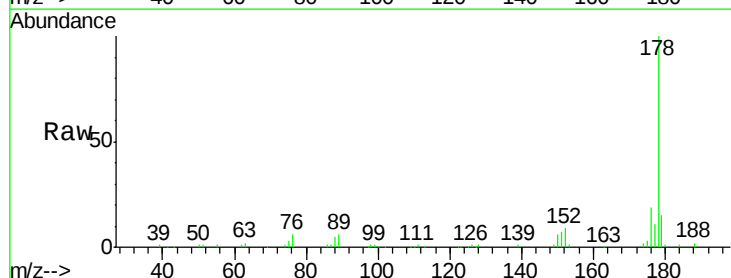
Manual Integrations
APPROVED

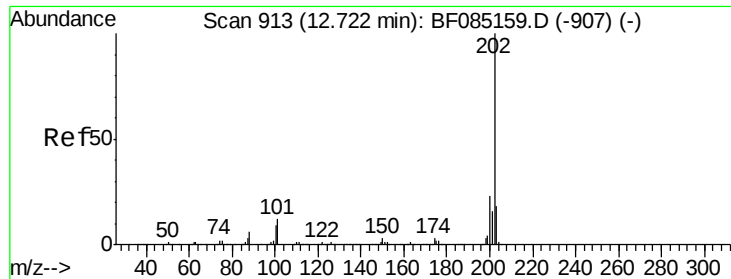
UMANGI
3/7/2016 9:33:48 AM



#70
Phenanthrene
Concen: 4.91 ng
RT: 11.52 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.9	16.8	25.2
179	15.0	13.1	19.7





#74

Fluoranthene

Concen: 7.36 ng

RT: 12.71 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF085250.D

Acq: 5 Mar 2016 13:15

Instrument :

BNA_F

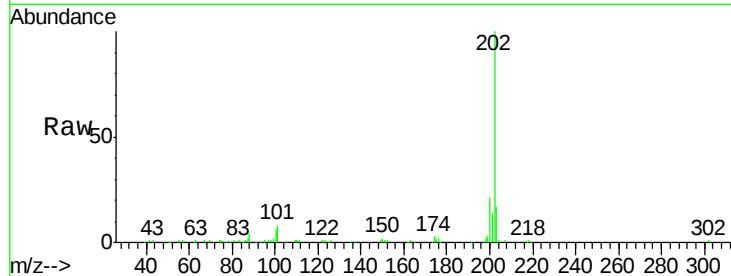
ClientSampleId :

SP-001(0-2)DL

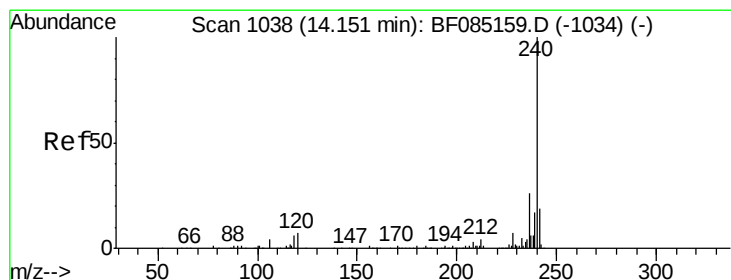
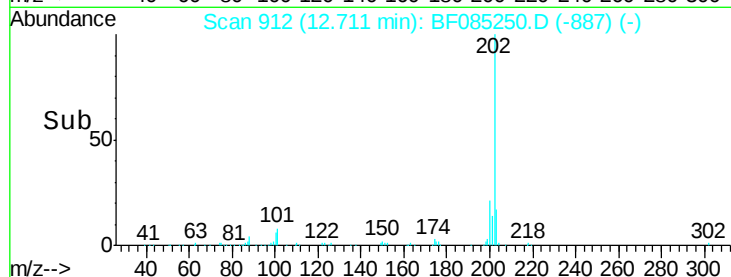
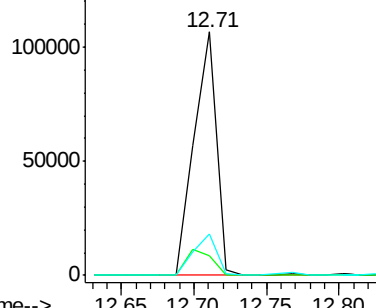
Tot Ion	Ratio	Resp	Lower	Upper
202	100	115449		
101	8.3	0.0	31.8	
203	17.1	0.0	38.4	

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:48 AM



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

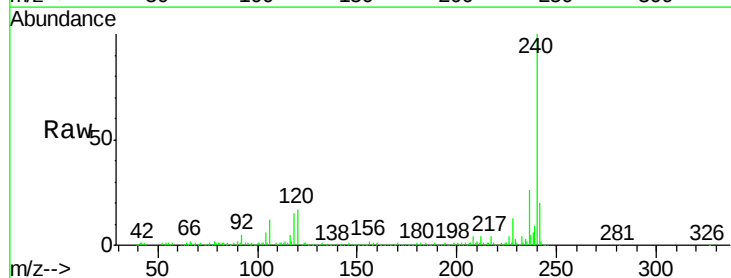
RT: 14.13 min Scan# 1036

Delta R.T. -0.02 min

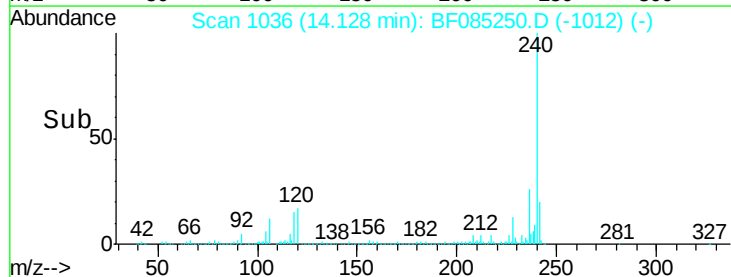
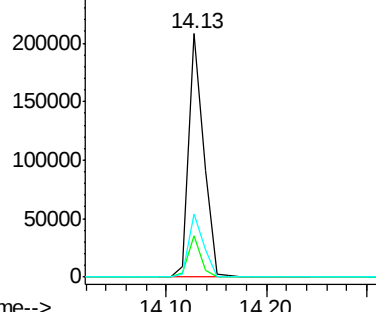
Lab File: BF085250.D

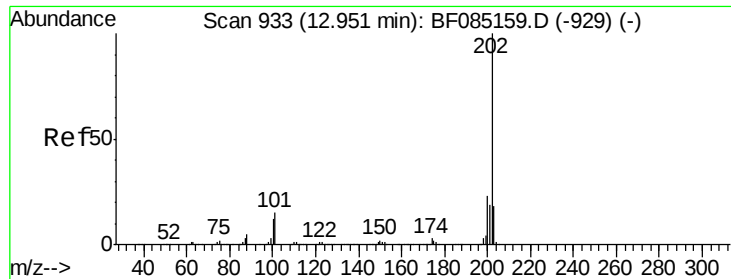
Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	216189		
120	16.8	5.3	7.9#	
236	26.1	20.7	31.1	



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





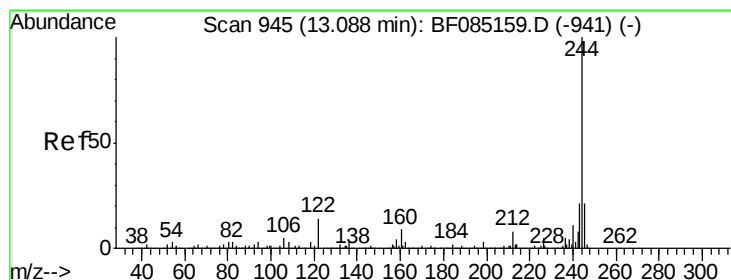
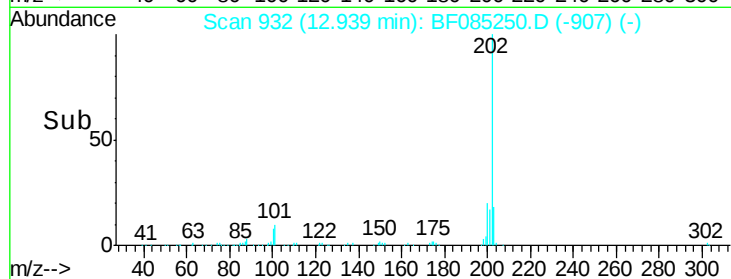
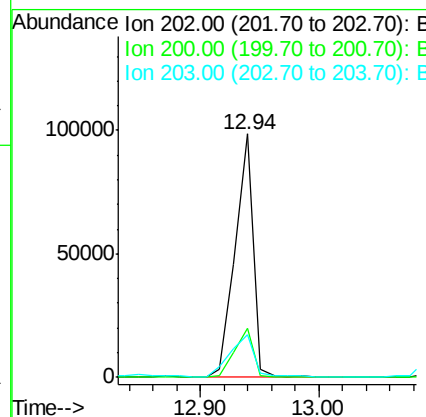
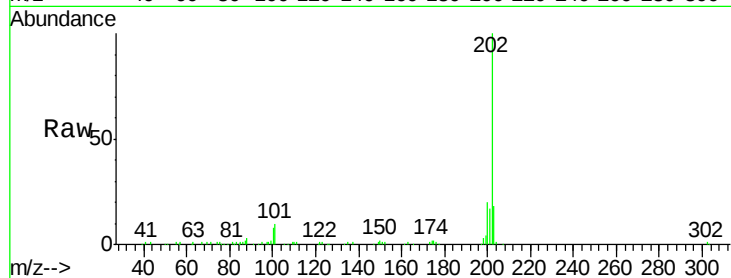
#77
Pvrene
Concen: 6.48 ng
RT: 12.94 min Scan# 932
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.3	18.2	27.4
203	17.6	14.7	22.1

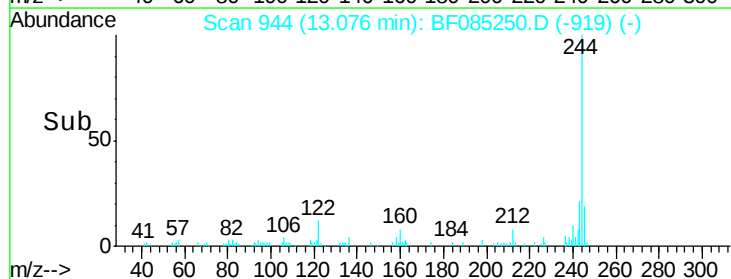
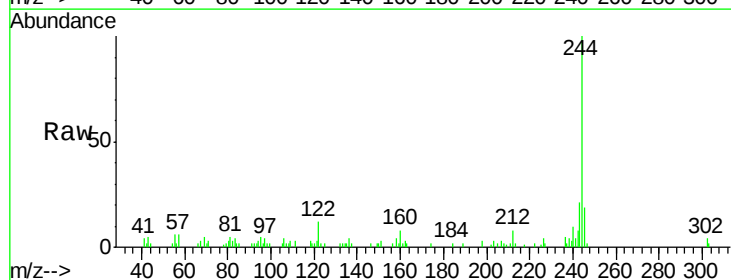
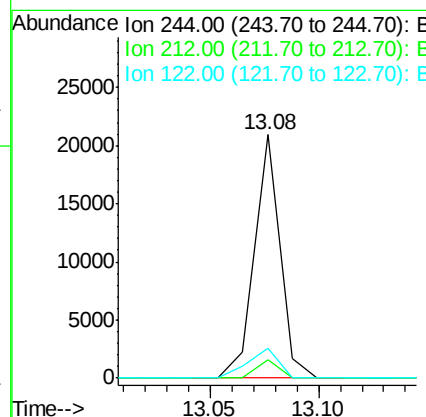
Manual Integrations
APPROVED

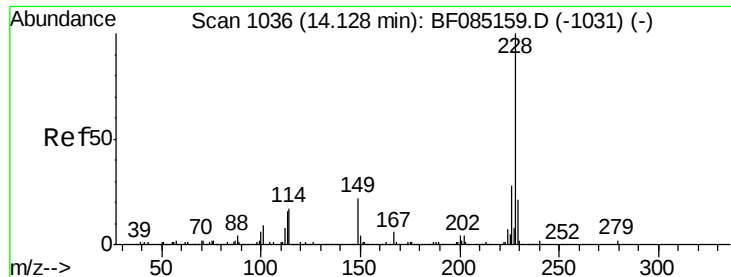
UMANGI
3/7/2016 9:33:48 AM



#78
Terphenyl-d14
Concen: 1.83 ng
RT: 13.08 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.5	6.4	9.6
122	12.5	11.4	17.2





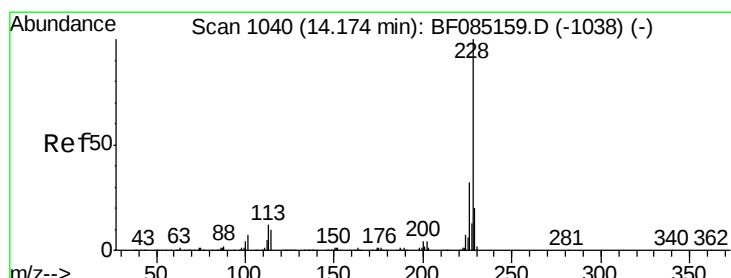
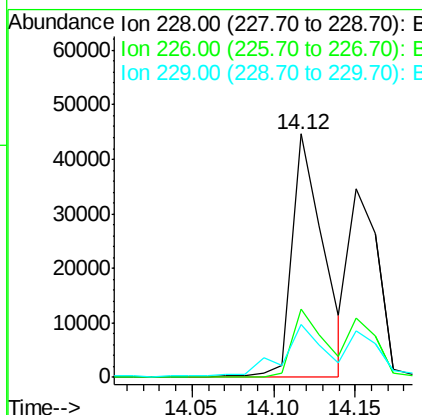
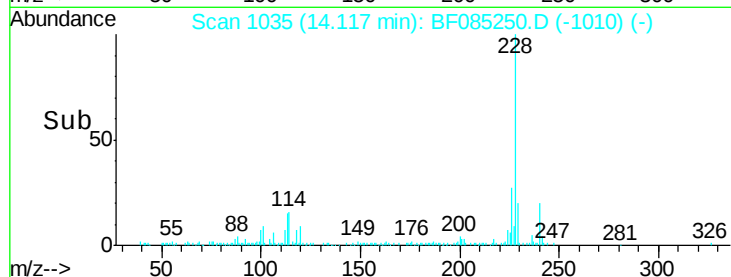
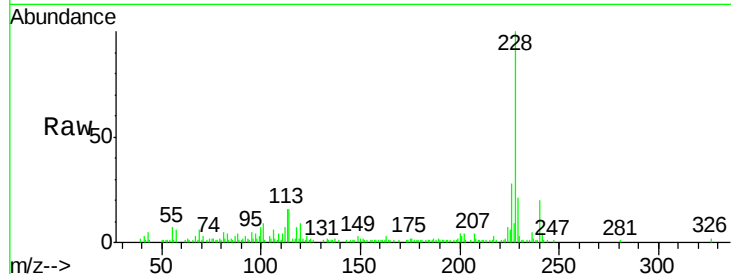
#80
Benzo(a)anthracene
Concen: 4.64 ng
RT: 14.12 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.8	34.2
229	21.5	16.6	24.8

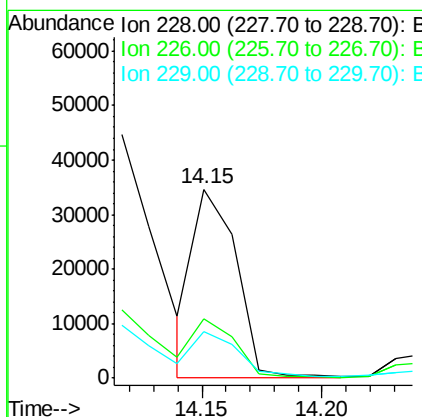
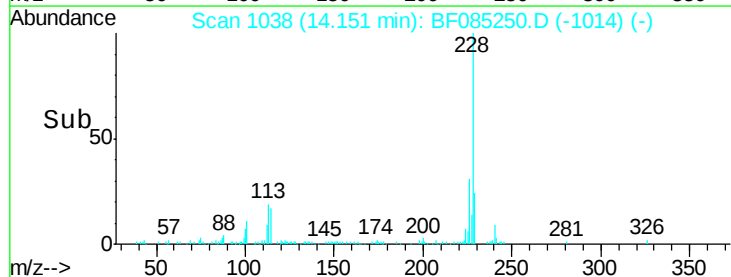
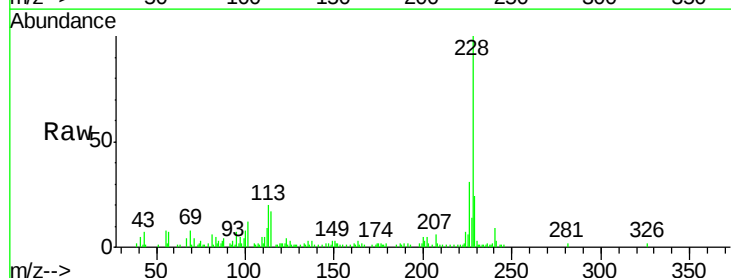
Manual Integrations
APPROVED

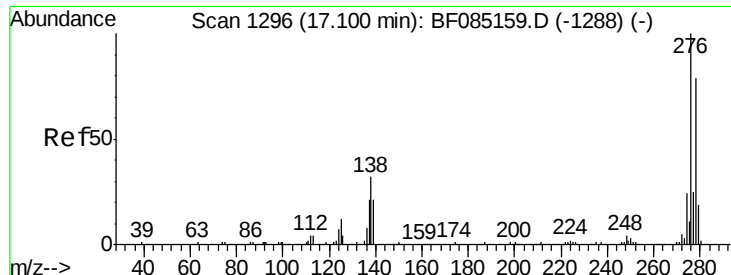
UMANGI
3/7/2016 9:33:48 AM



#82
Chrysene
Concen: 3.67 ng m
RT: 14.15 min Scan# 1038
Delta R.T. -0.02 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.2	37.8
229	24.5	16.0	24.0





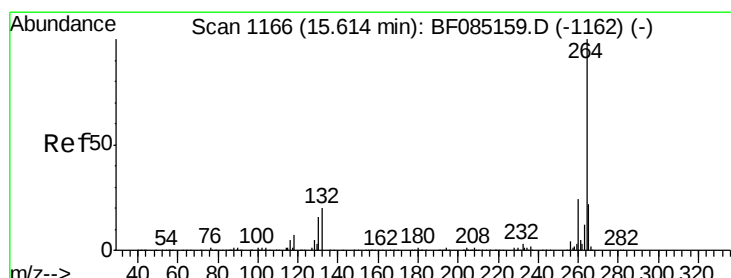
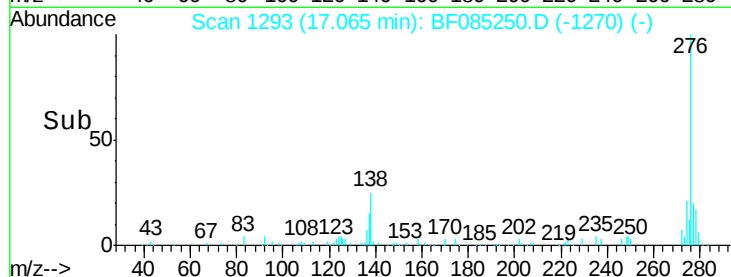
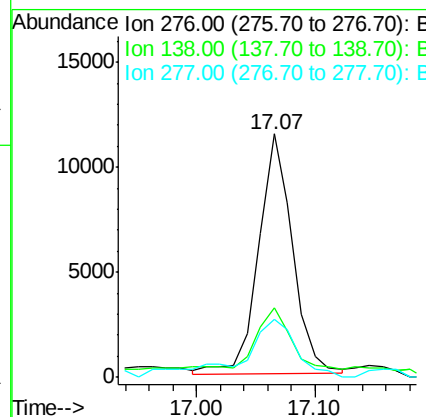
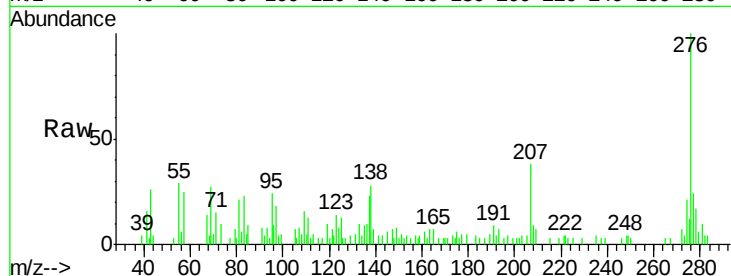
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.45 ng
RT: 17.07 min Scan# 1293
Delta R.T. -0.03 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.9	26.4	39.6#
277	38.7	20.2	30.2#

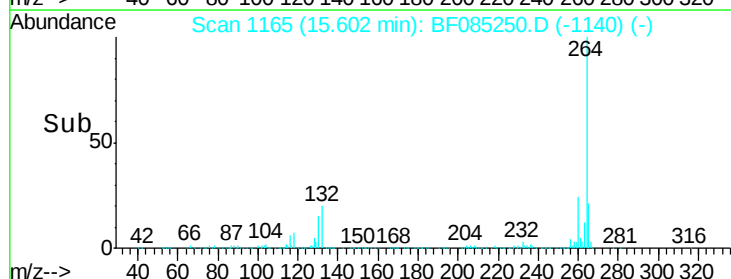
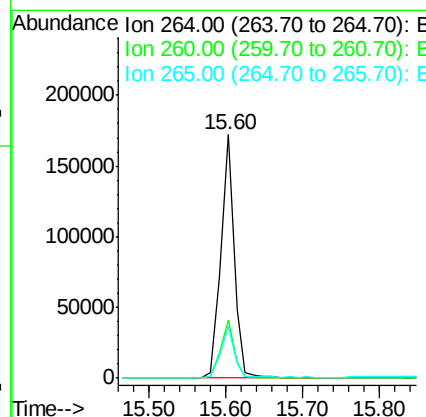
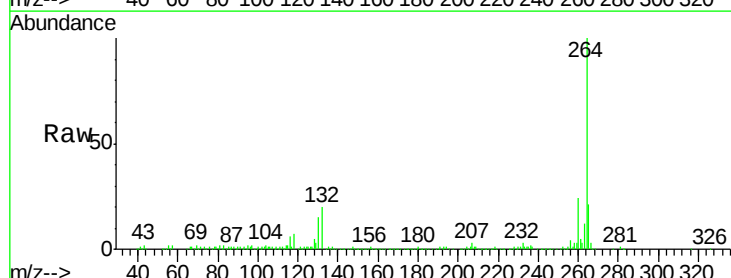
Manual Integrations
APPROVED

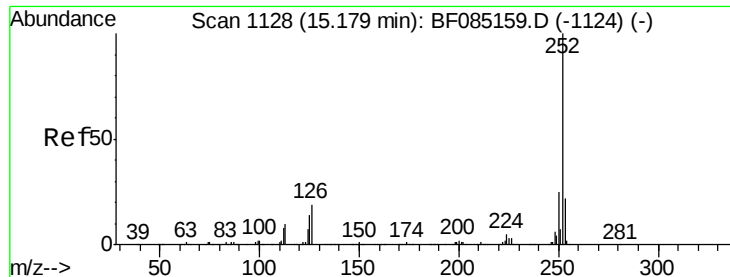
UMANGI
3/7/2016 9:33:48 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.60 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF085250.D
Acq: 5 Mar 2016 13:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.4	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 5.02 ng/mL

RT: 15.17 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF085250.D

Acq: 5 Mar 2016 13:15

Instrument :

BNA_F

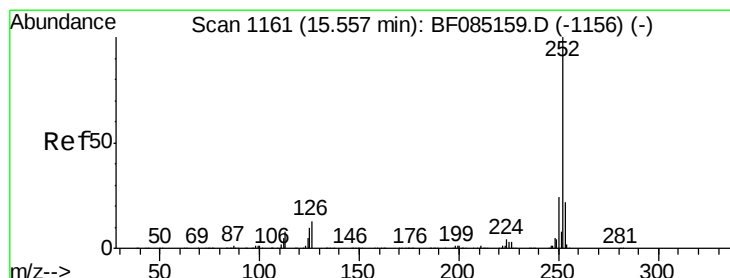
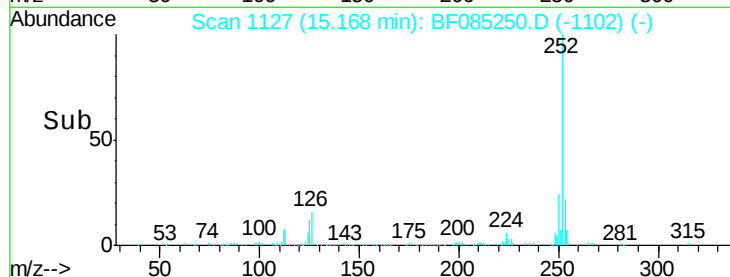
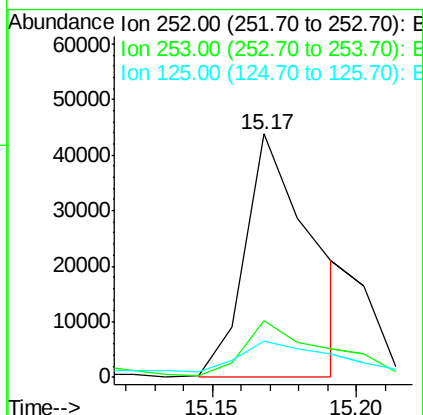
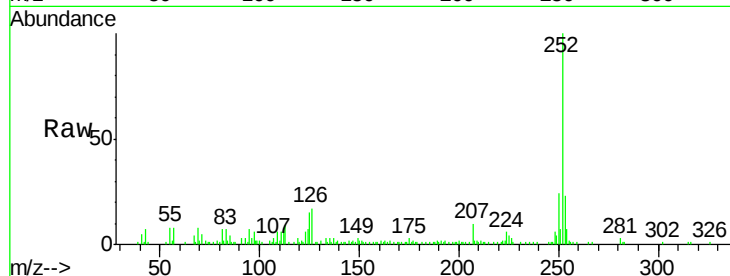
ClientSampleId :

SP-001(0-2)DL

Tot Ion:	252	Resp:	70435
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.8	26.6
125	14.9	11.3	16.9

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:48 AM



#89

Benzo(a)pyrene

Concen: 3.55 ng/mL

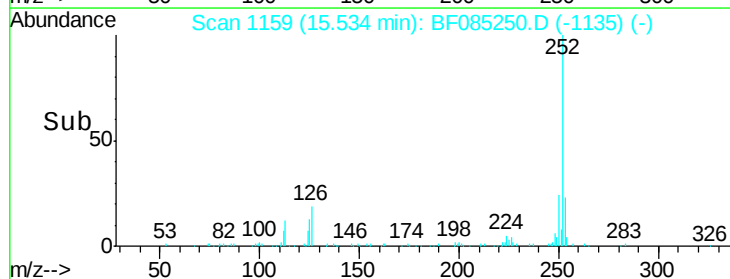
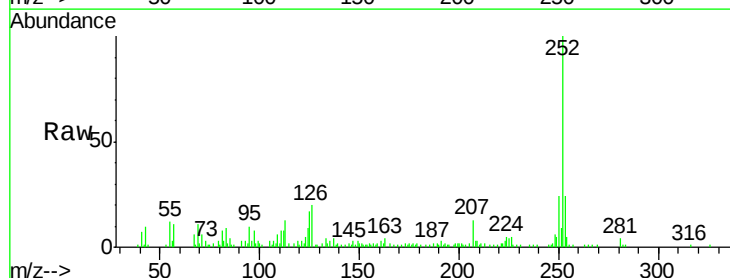
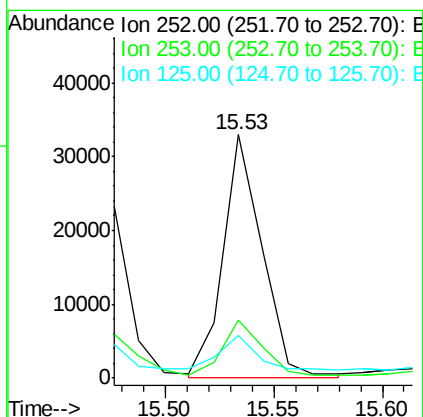
RT: 15.53 min Scan# 1159

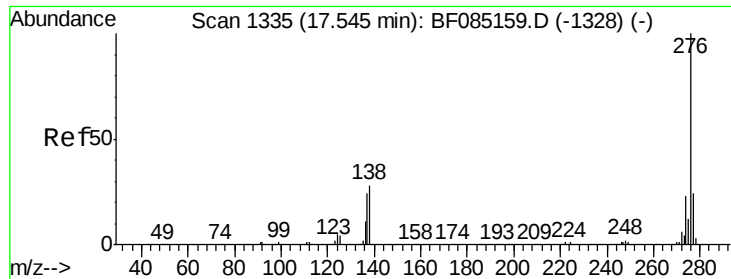
Delta R.T. -0.02 min

Lab File: BF085250.D

Acq: 5 Mar 2016 13:15

Tgt Ion:	252	Resp:	41197
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.4	26.0
125	17.5	8.2	12.4#





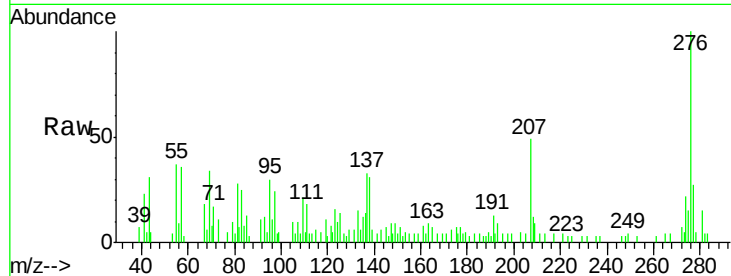
#91
 Benzo(a,h,i)perylene
 Concen: 2.15 ng
 RT: 17.51 min Scan# 1332
 Delta R.T. -0.03 min
 Lab File: BF085250.D
 Acq: 5 Mar 2016 13:15

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.0	19.0	28.4
138	31.4	22.5	33.7

Manual Integrations
 APPROVED

UMANGI
 3/7/2016 9:33:48 AM



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

