

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032816\
 Data File : BF085851.D
 Acq On : 29 Mar 2016 14:32
 Operator : UM/SJ
 Sample : H1937-03DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(2-3)DL

Manual Integrations
 APPROVED

Sohil
 3/29/2016 5:04:49 PM

Quant Time: Mar 29 14:58:46 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 28 15:27:05 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	116540	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	449708	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	198382	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	334973	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	211480	20.00	ng	0.00
86) Perylene-d12	15.40	264	232613	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	421607	60.25	ng	0.00
7) Phenol-d6	6.45	99	523225	58.81	ng	-0.01
23) Nitrobenzene-d5	7.37	82	306273	38.35	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	97778	51.88	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	545926	45.98	ng	-0.01
78) Terphenyl-d14	12.92	244	328667	31.96	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.12	128	53609	2.37	ng	99
49) Dimethylphthalate	9.58	163	89166	5.92	ng	98
51) Acenaphthene	9.89	154	96929	7.91	ng	99
54) Dibenzofuran	10.06	168	81945	5.17	ng	97
57) Fluorene	10.40	166	108608	8.24	ng	100
70) Phenanthrene	11.36	178	673385	39.15	ng	100
71) Anthracene	11.41	178	226535	12.55	ng	97
72) Carbazole	11.57	167	75709	4.99	ng	99
74) Fluoranthene	12.56	202	488508	26.72	ng	88
77) Pyrene	12.78	202	413243	23.77	ng	99
80) Benzo(a)anthracene	13.97	228	172431	14.30	ng	99
82) Chrysene	14.00	228	136614m	11.25	ng	
85) Indeno(1,2,3-cd)pyrene	16.77	276	54141	5.77	ng	95
87) Benzo(b)fluoranthene	14.99	252	169083m	11.54	ng	
88) Benzo(k)fluoranthene	15.01	252	33085m	2.50	ng	
89) Benzo(a)pyrene	15.33	252	119196	9.16	ng	# 95
91) Benzo(g,h,i)perylene	17.19	276	53890	4.40	ng	94

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

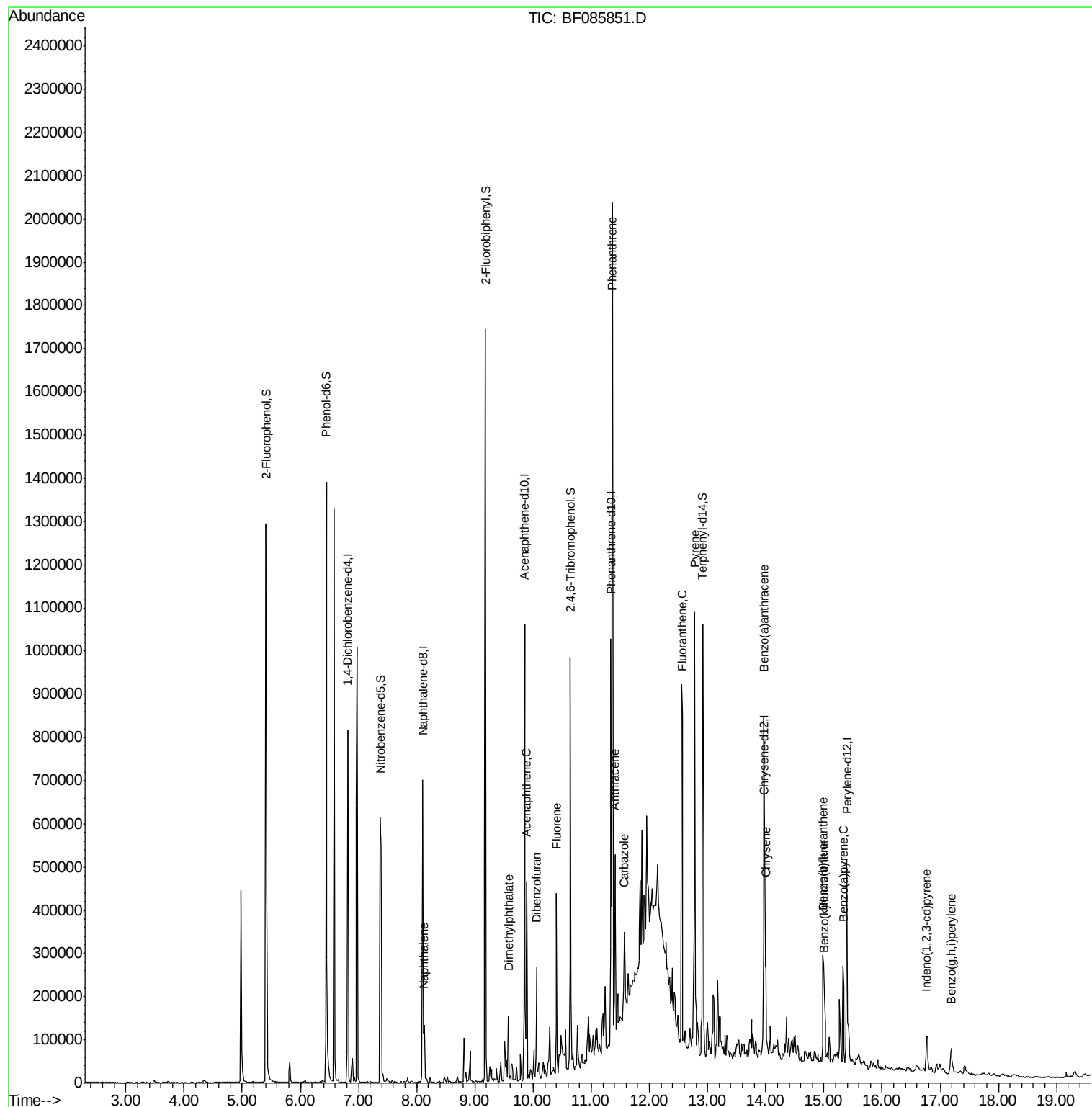
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032816\
Data File : BF085851.D
Acq On : 29 Mar 2016 14:32
Operator : UM/SJ
Sample : H1937-03DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

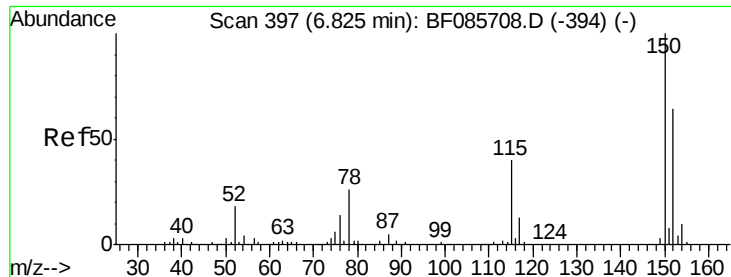
Instrument :
BNA_F
ClientSampleId :
GW-04(2-3)DL

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM

Quant Time: Mar 29 14:58:46 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 28 15:27:05 2016
Response via : Initial Calibration





#1

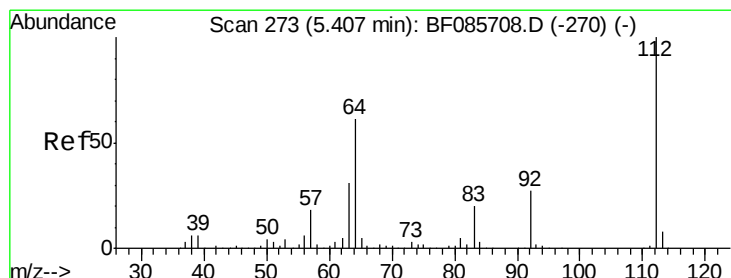
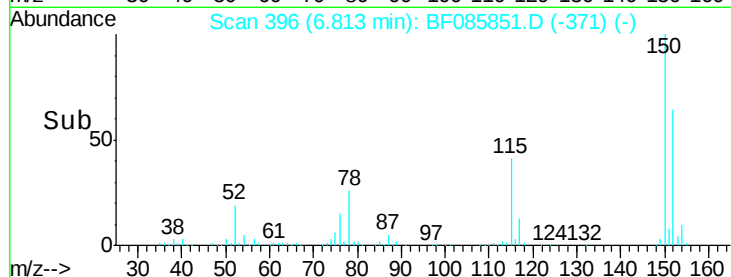
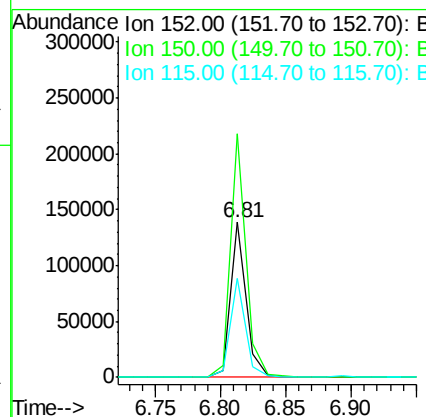
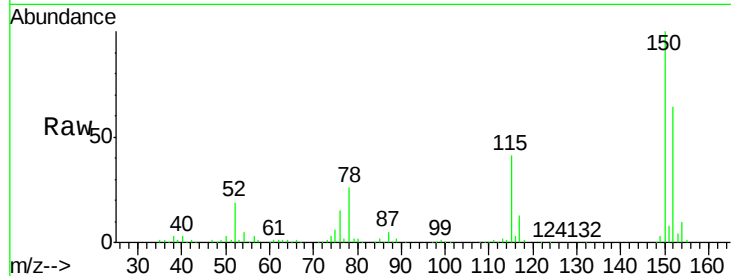
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 396
Delta R.T. -0.01 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Instrument :
BNA_F
ClientSampleId :
GW-04(2-3)DL

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	116540		
150	157.0	124.2	186.2	
115	64.2	47.0	70.6	

Manual Integrations
APPROVED

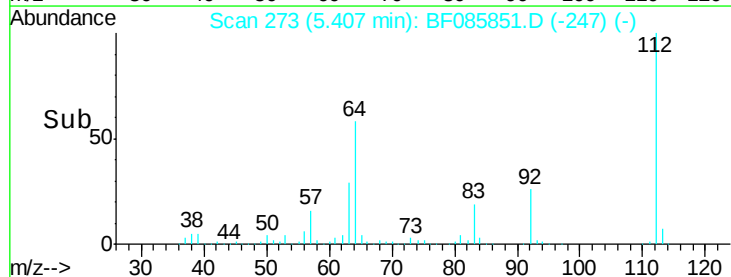
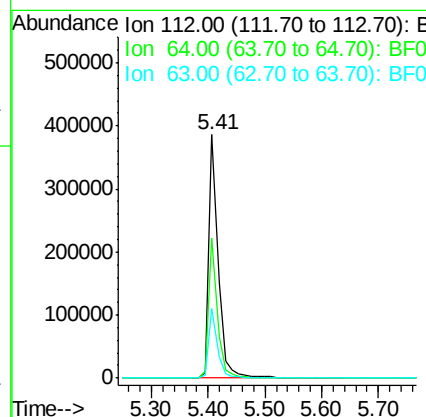
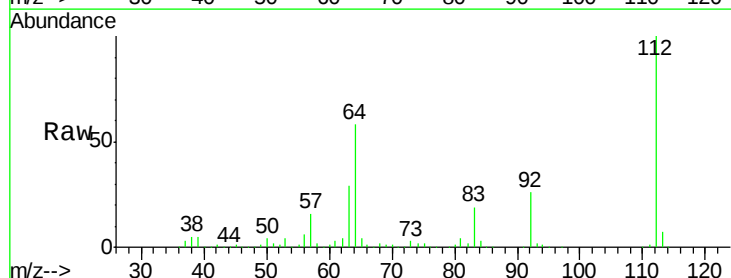
Sohil
3/29/2016 5:04:49 PM



#5

2-Fluorophenol
Concen: 60.25 ng
RT: 5.41 min Scan# 273
Delta R.T. 0.00 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	421607		
64	57.7	39.9	59.9	
63	28.8	20.2	30.2	





#7

Phenol-d6

Concen: 58.81 ng

RT: 6.45 min Scan# 364

Delta R.T. -0.01 min

Lab File: BF085851.D

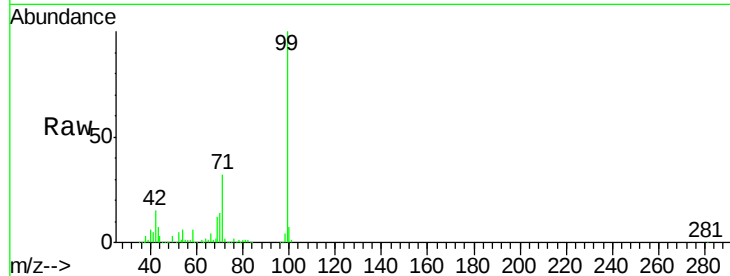
Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

ClientSampleId :

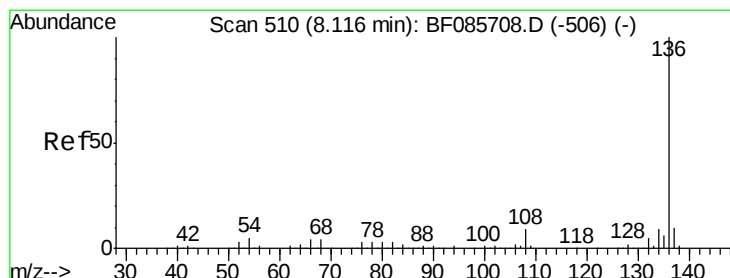
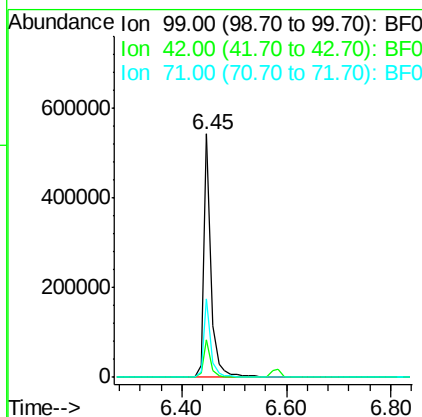
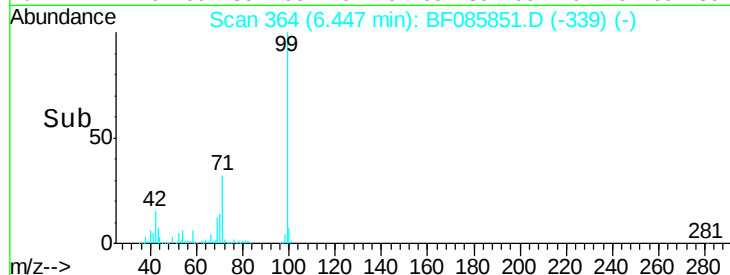
GW-04(2-3)DL



Tgt Ion:	99	Resp:	523225
Ion Ratio	Lower	Upper	
99	100		
42	15.2	11.1	16.7
71	32.4	24.9	37.3

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#21

Naphthalene-d8

Concen: 20.00 ng

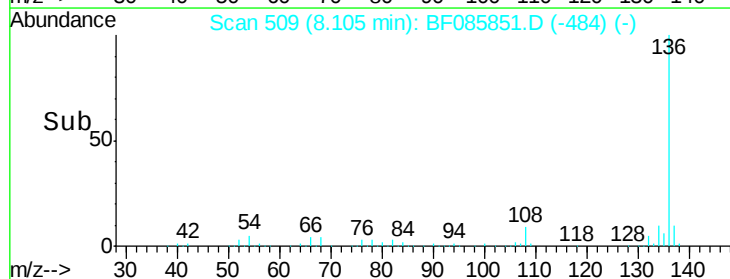
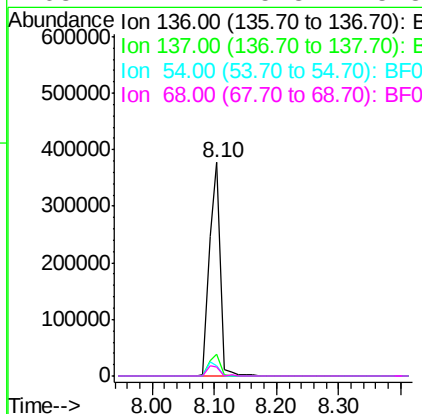
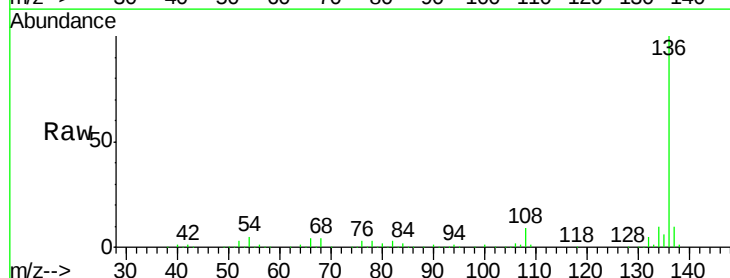
RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	136	Resp:	449708
Ion Ratio	Lower	Upper	
136	100		
137	10.4	9.1	13.7
54	4.8	7.4	11.0#
68	4.2	5.8	8.8#





#23

Nitrobenzene-d5

Concen: 38.35 ng

RT: 7.37 min Scan# 445

Delta R.T. -0.02 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

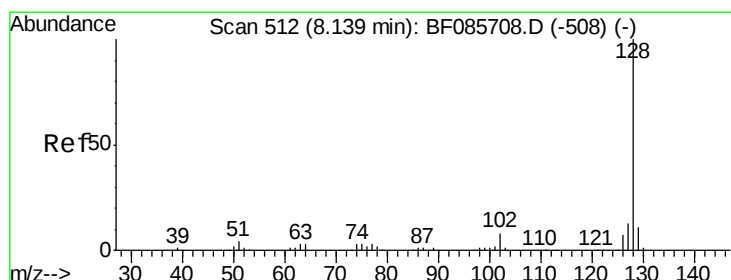
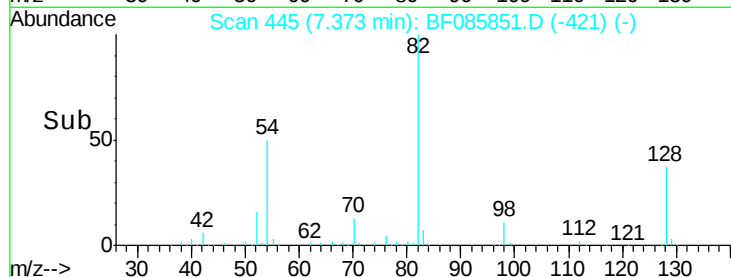
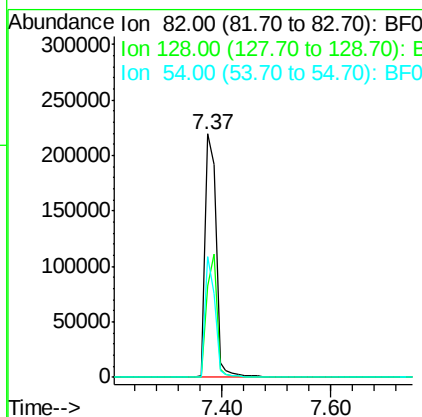
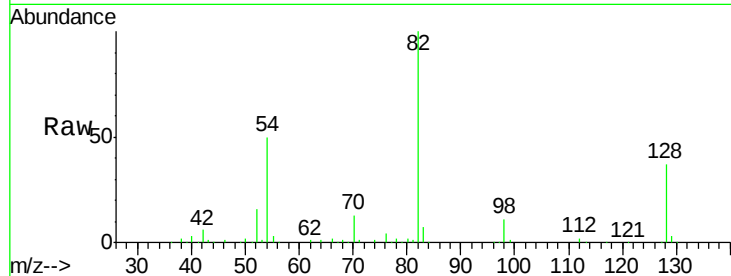
ClientSampleId :

GW-04(2-3)DL

Tgt Ion:	82	Resp:	306273
Ion Ratio	Lower	Upper	
82	100		
128	37.4	41.8	62.8#
54	49.6	33.4	50.0

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#31

Naphthalene

Concen: 2.37 ng

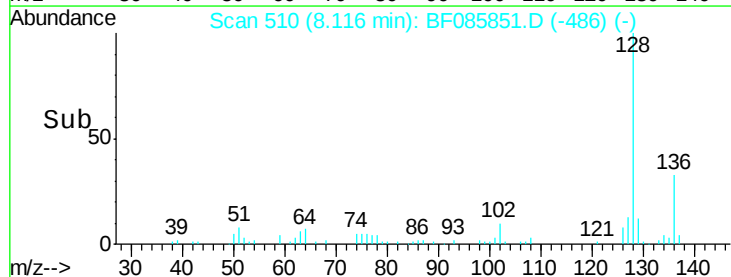
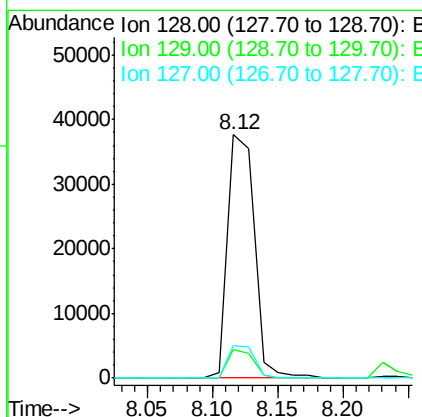
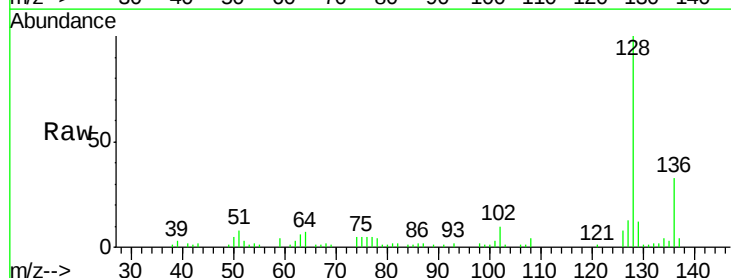
RT: 8.12 min Scan# 510

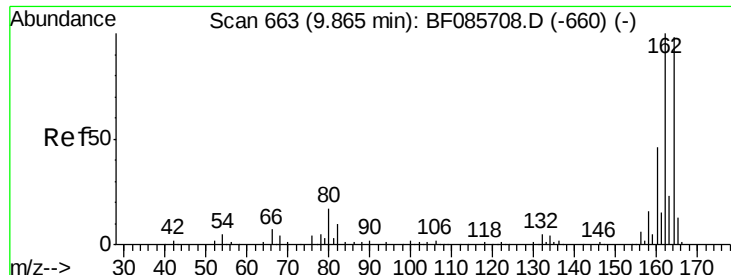
Delta R.T. -0.02 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	128	Resp:	53609
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.4	14.0
127	13.2	11.0	16.6





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

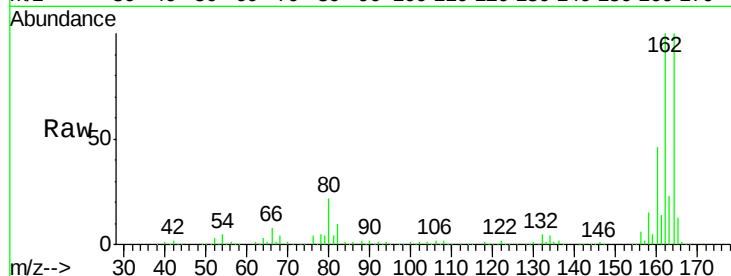
ClientSampleId :

GW-04(2-3)DL

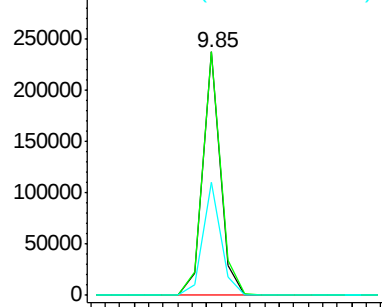
Tgt Ion:	164	Resp:	198382
Ion Ratio	Lower	Upper	
164	100		
162	100.2	82.1	123.1
160	46.3	37.4	56.2

Manual Integrations
APPROVED

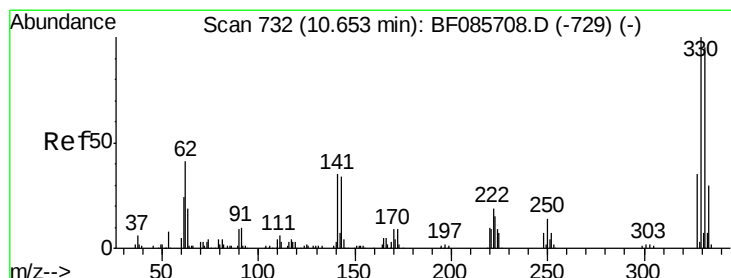
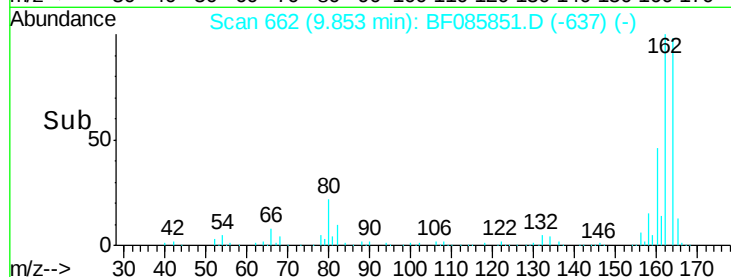
Sohil
3/29/2016 5:04:49 PM



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



Time-->



#41

2,4,6-Tribromophenol

Concen: 51.88 ng

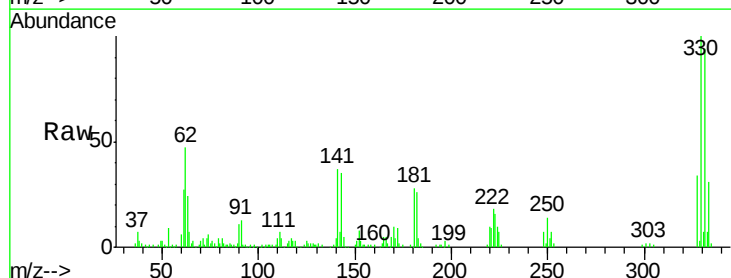
RT: 10.64 min Scan# 731

Delta R.T. -0.01 min

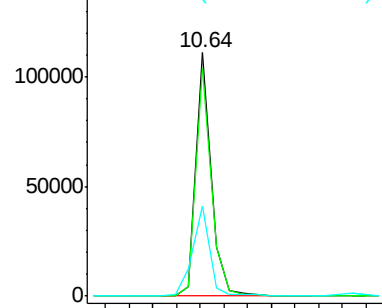
Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

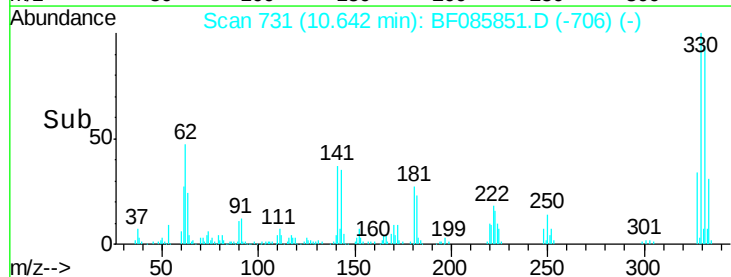
Tgt Ion:	330	Resp:	97778
Ion Ratio	Lower	Upper	
330	100		
332	95.1	78.2	117.2
141	41.9	31.5	47.3

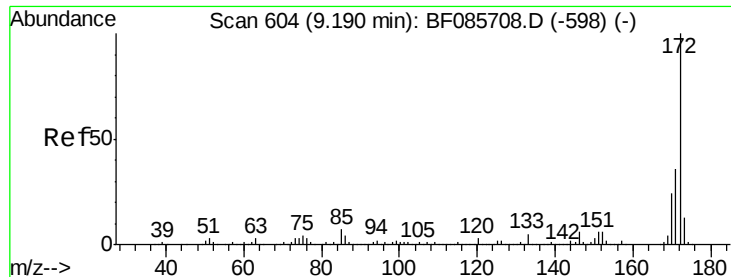


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



Time-->





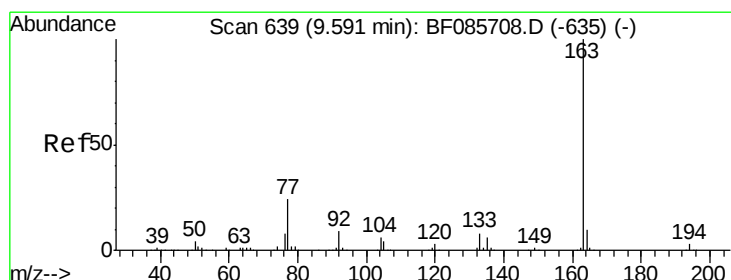
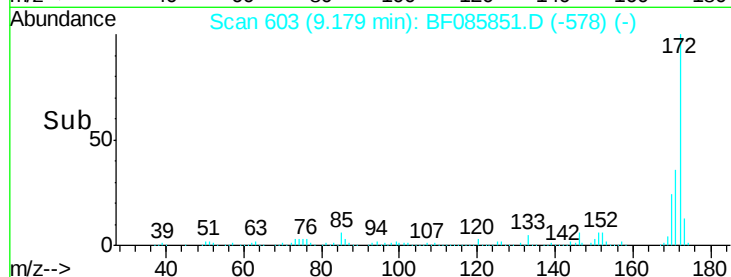
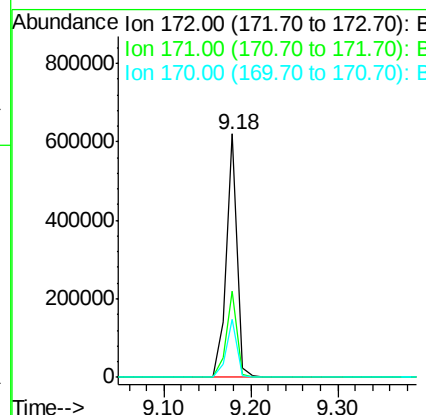
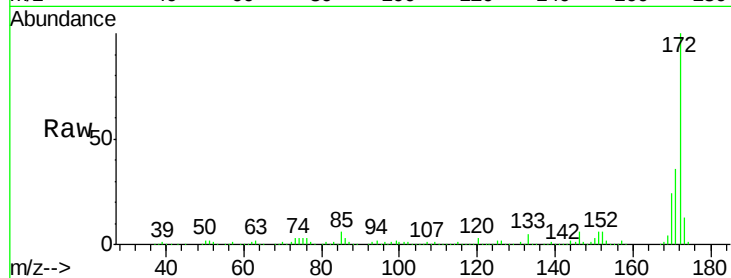
#44
2-Fluorobiphenyl
Concen: 45.98 ng
RT: 9.18 min Scan# 603
Delta R.T. -0.01 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Instrument :
BNA_F
ClientSampleId :
GW-04(2-3)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.6	29.4	44.2
170	24.1	19.8	29.6

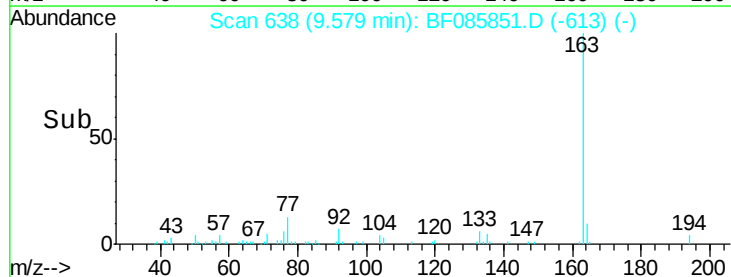
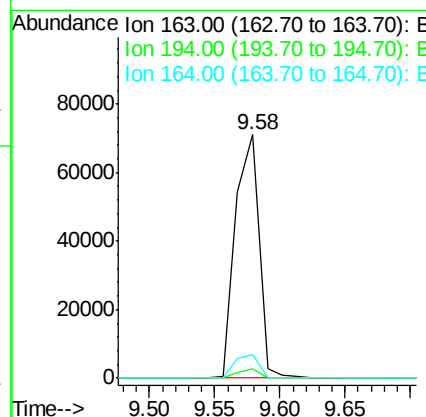
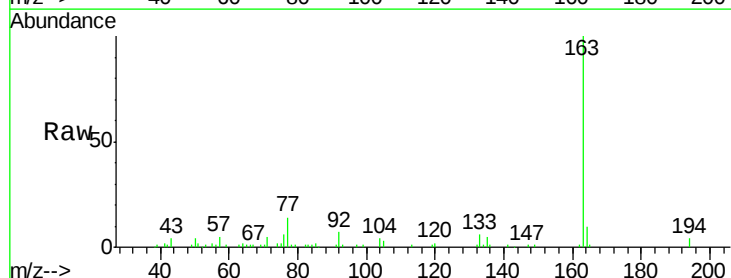
Manual Integrations
APPROVED

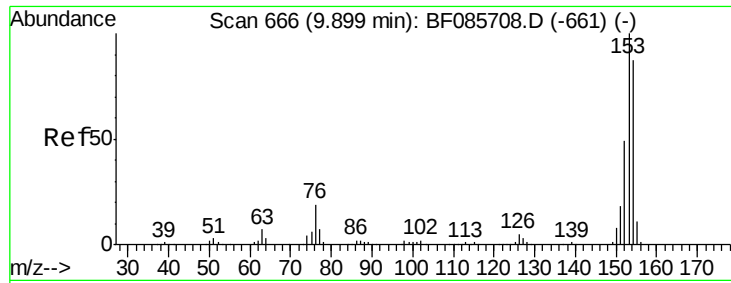
Sohil
3/29/2016 5:04:49 PM



#49
Dimethylphthalate
Concen: 5.92 ng
RT: 9.58 min Scan# 638
Delta R.T. -0.01 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.8	2.9	4.3
164	9.6	8.3	12.5





#51

Acenaphthene

Concen: 7.91 ng

RT: 9.89 min Scan# 665

Delta R.T. -0.01 min

Lab File: BF085851.D

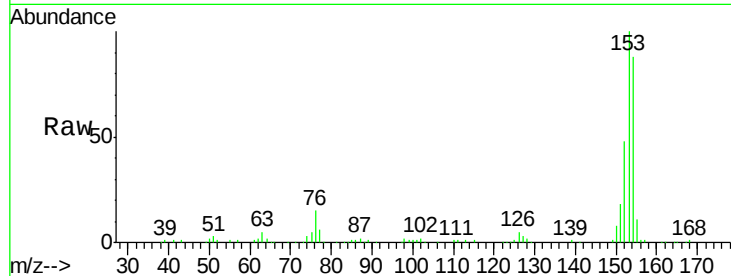
Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

ClientSampleId :

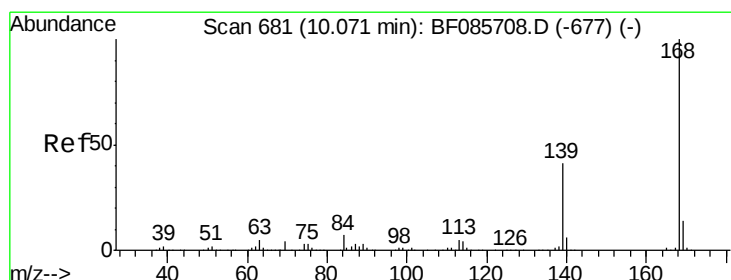
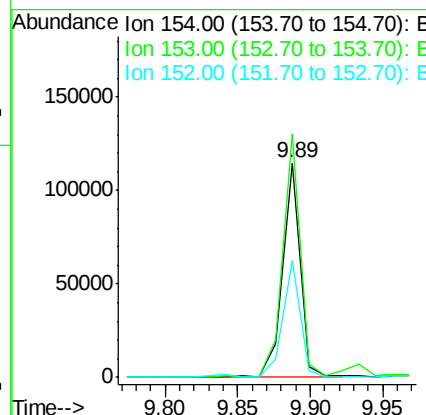
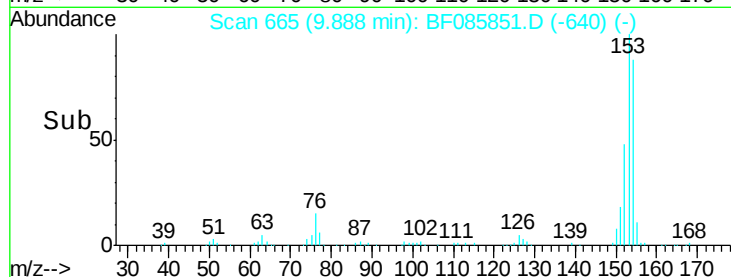
GW-04(2-3)DL



Tgt Ion:	154	Resp:	96929
Ion Ratio	Lower	Upper	
154	100		
153	113.6	90.1	135.1
152	54.3	44.2	66.2

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#54

Dibenzofuran

Concen: 5.17 ng

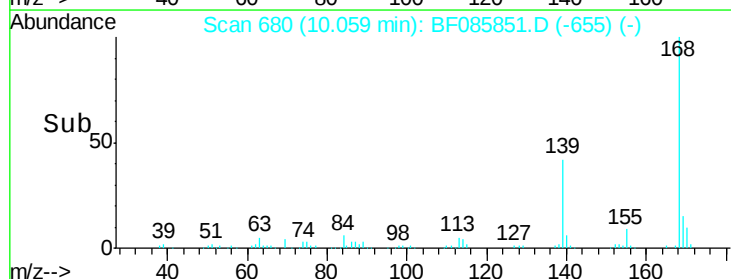
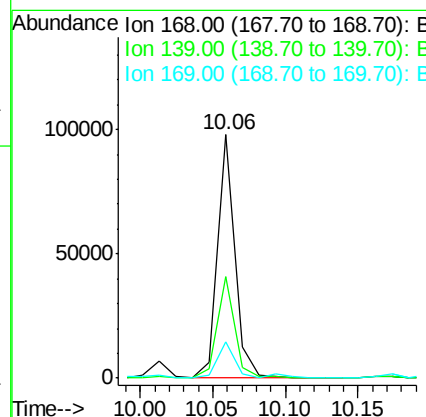
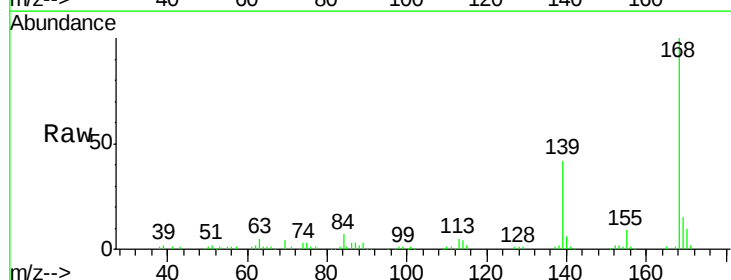
RT: 10.06 min Scan# 680

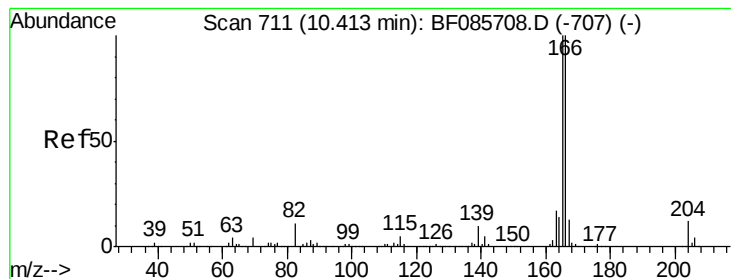
Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	168	Resp:	81945
Ion Ratio	Lower	Upper	
168	100		
139	41.6	31.9	47.9
169	14.8	11.0	16.6





#57

Fluorene

Concen: 8.24 ng

RT: 10.40 min Scan# 710

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

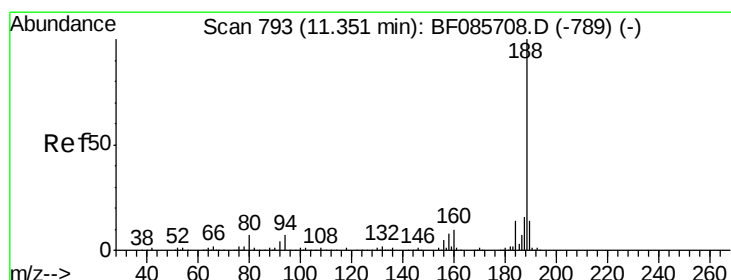
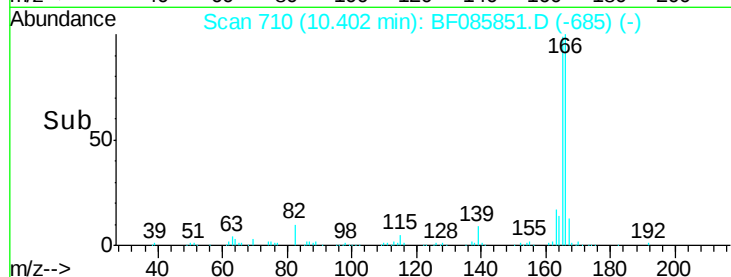
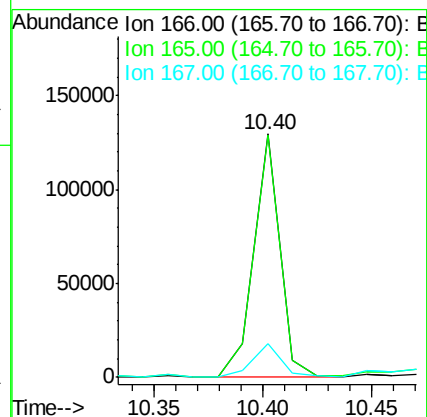
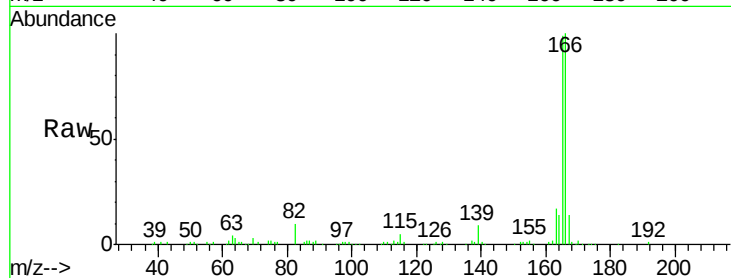
ClientSampleId :

GW-04(2-3)DL

Tgt Ion:	166	Resp:	108608
Ion Ratio		Lower	Upper
166	100		
165	99.3	79.4	119.0
167	13.7	11.0	16.4

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

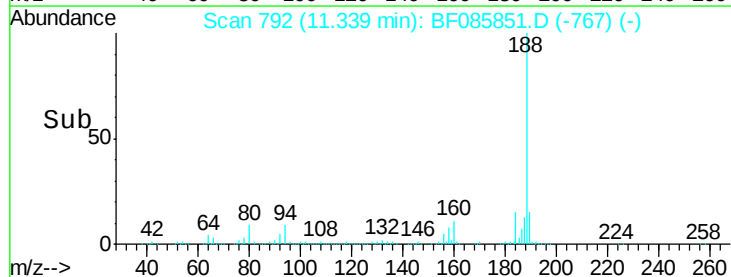
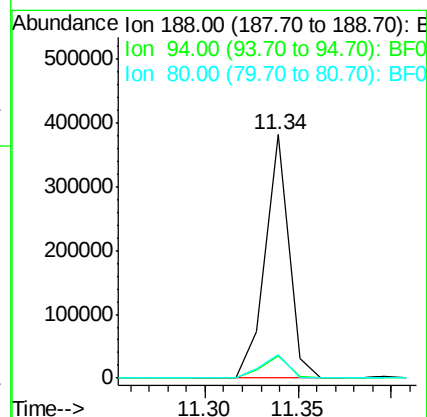
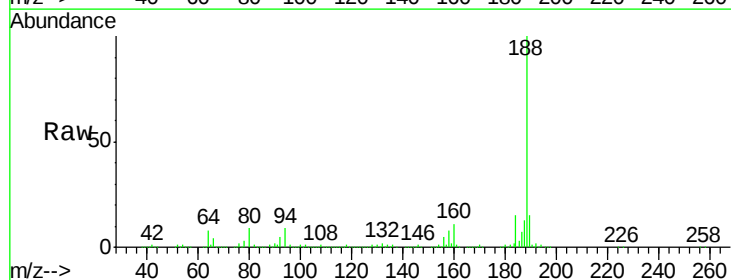
RT: 11.34 min Scan# 792

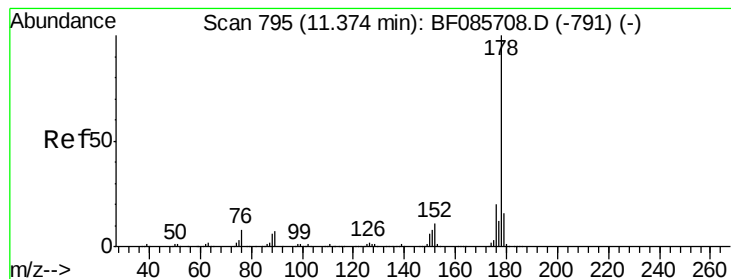
Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	188	Resp:	334973
Ion Ratio		Lower	Upper
188	100		
94	9.1	5.4	8.0#
80	9.4	5.5	8.3#





#70

Phenanthrene

Concen: 39.15 ng

RT: 11.36 min Scan# 794

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

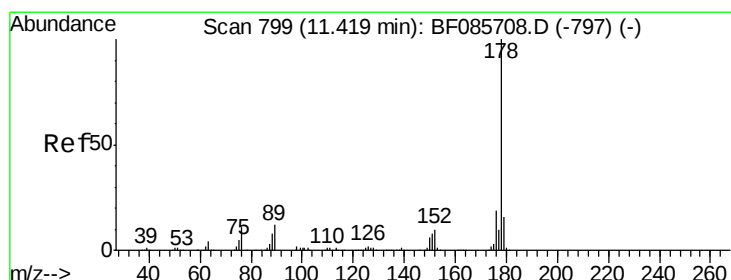
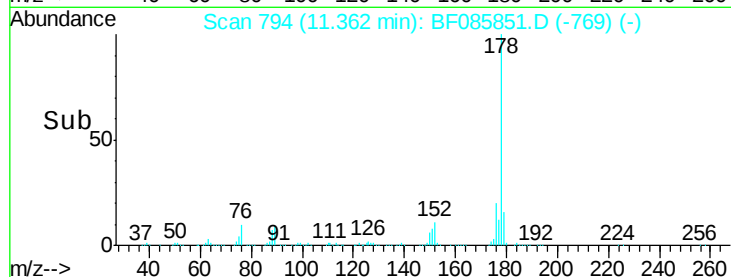
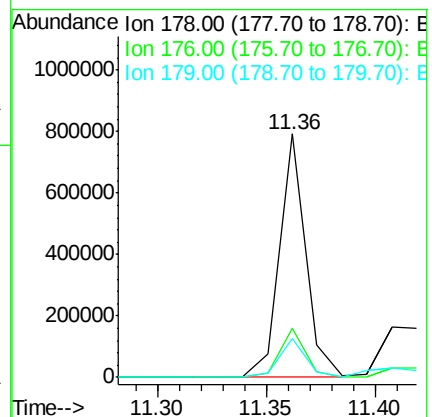
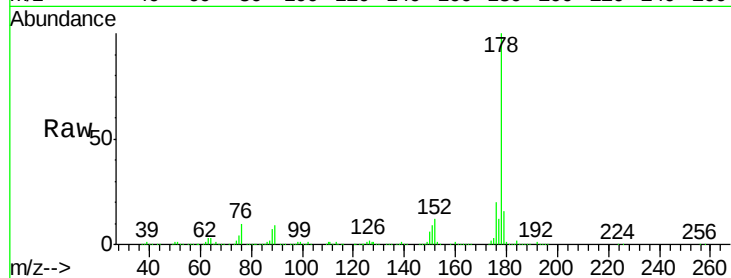
ClientSampleId :

GW-04(2-3)DL

Tgt Ion:	178	Resp:	673385
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.3	24.5
179	16.0	12.6	18.8

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#71

Anthracene

Concen: 12.55 ng

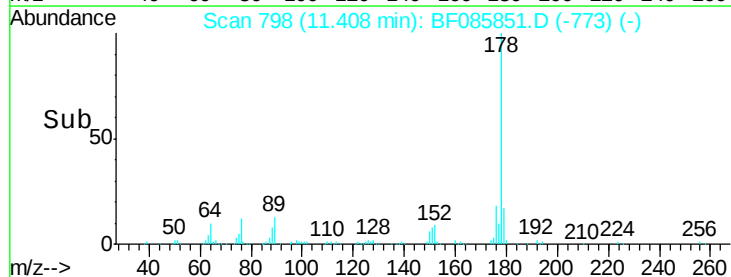
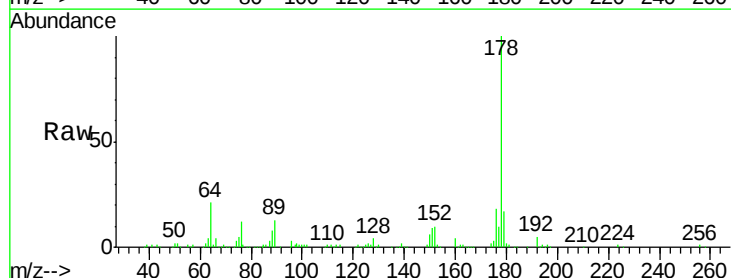
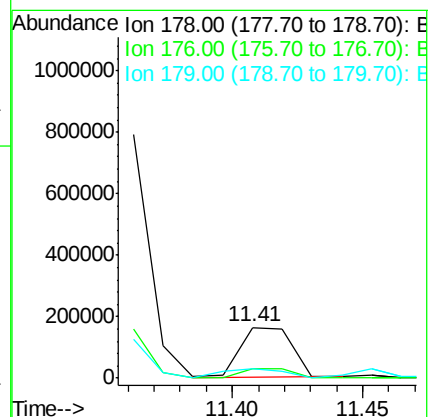
RT: 11.41 min Scan# 798

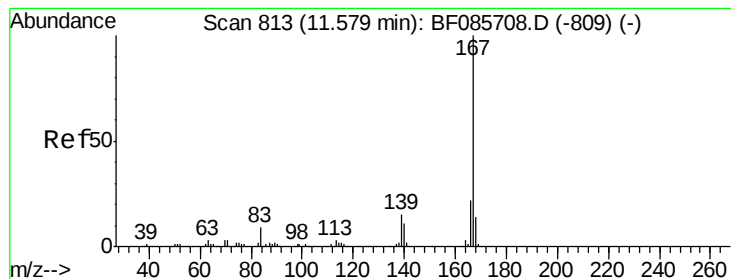
Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	178	Resp:	226535
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.9	23.9
179	17.2	13.0	19.4





#72

Carbazole

Concen: 4.99 ng

RT: 11.57 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

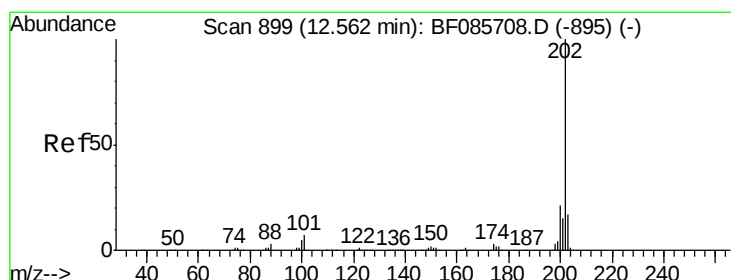
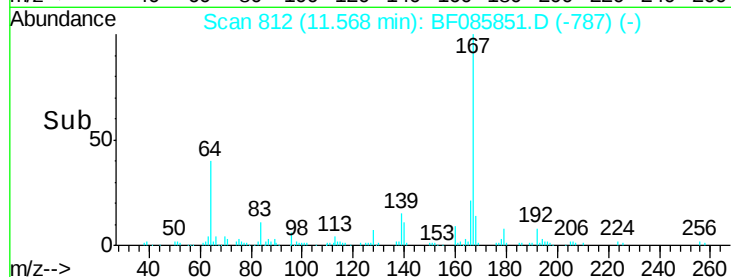
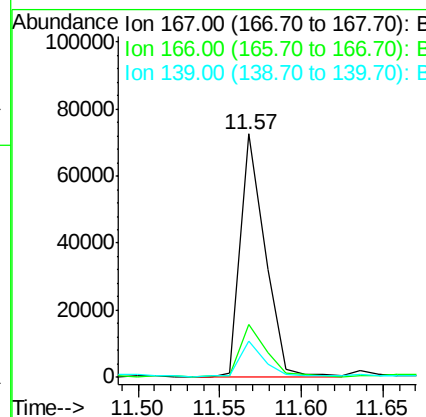
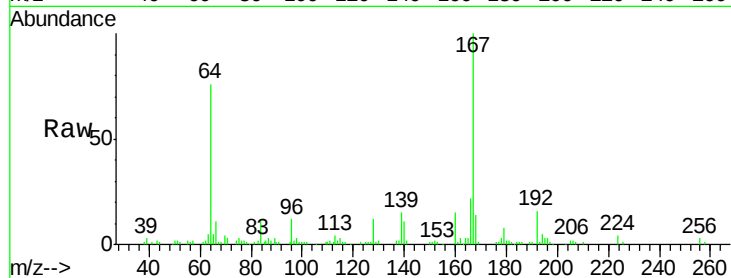
ClientSampleId :

GW-04(2-3)DL

Tgt Ion:	167	Resp:	75709
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.8	26.8
139	15.1	11.6	17.4

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#74

Fluoranthene

Concen: 26.72 ng

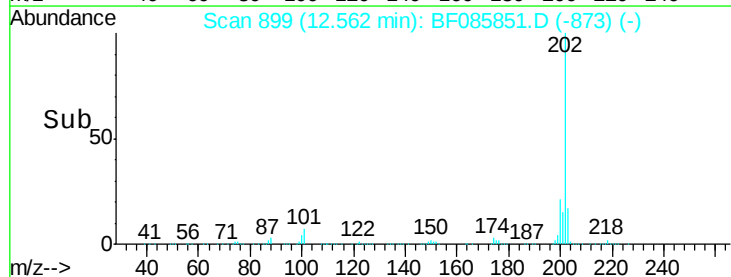
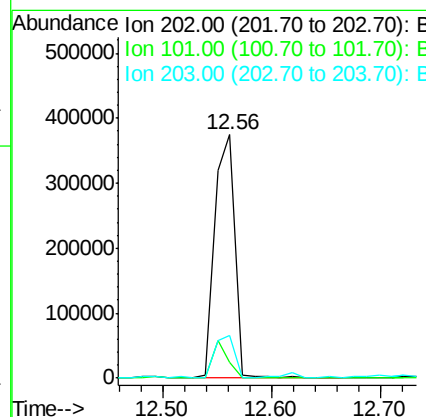
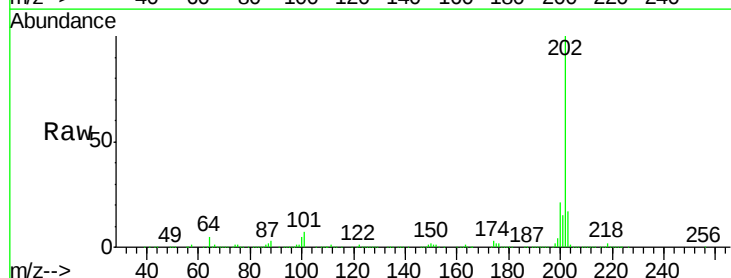
RT: 12.56 min Scan# 899

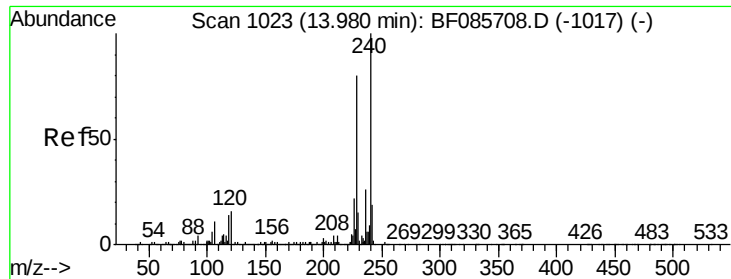
Delta R.T. -0.00 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion:	202	Resp:	488508
Ion Ratio	Lower	Upper	
202	100		
101	6.6	0.0	36.6
203	17.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

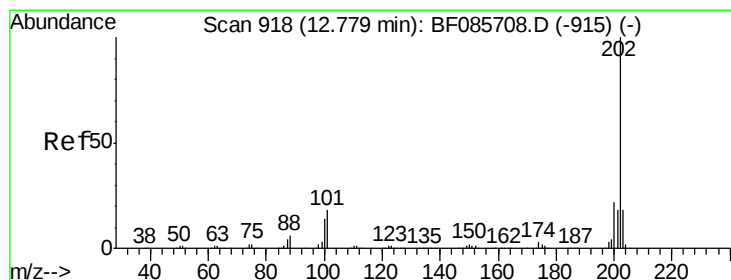
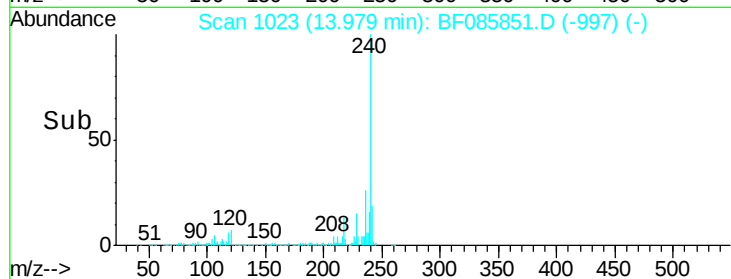
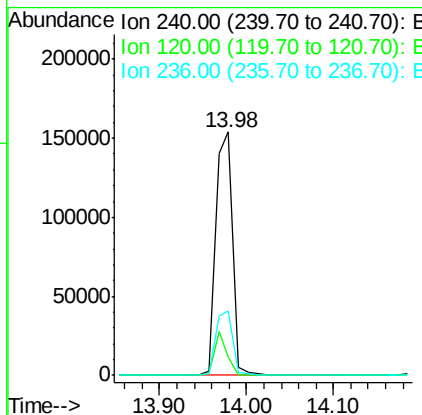
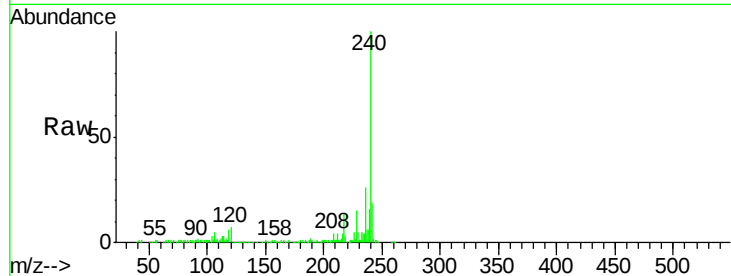
ClientSampleId :

GW-04(2-3)DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	211480		
120	7.5	13.8	20.8#	
236	26.4	20.6	30.8	

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#77

Pyrene

Concen: 23.77 ng

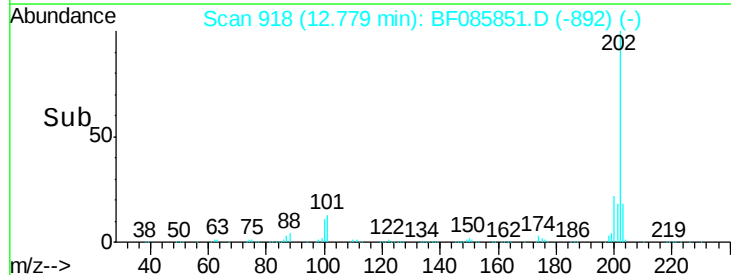
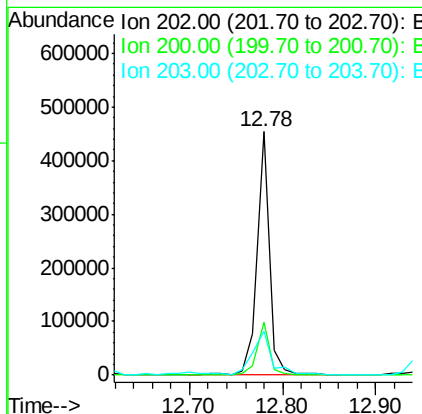
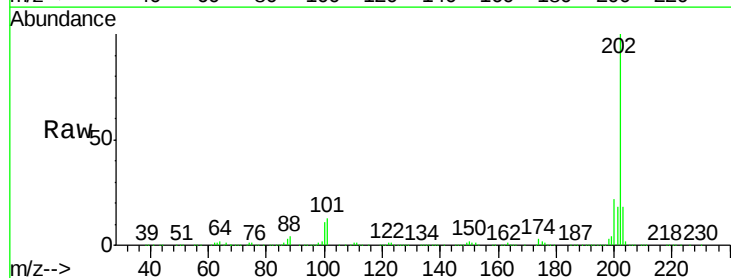
RT: 12.78 min Scan# 918

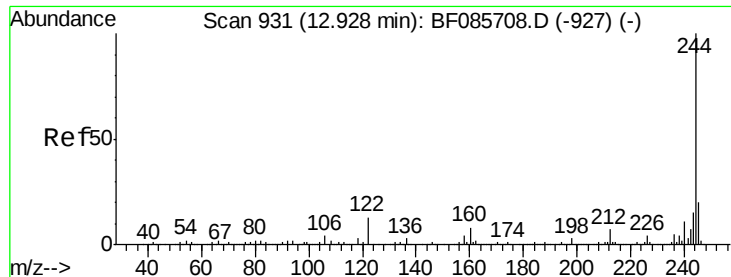
Delta R.T. -0.00 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	413243		
200	21.7	17.6	26.4	
203	18.0	14.0	21.0	





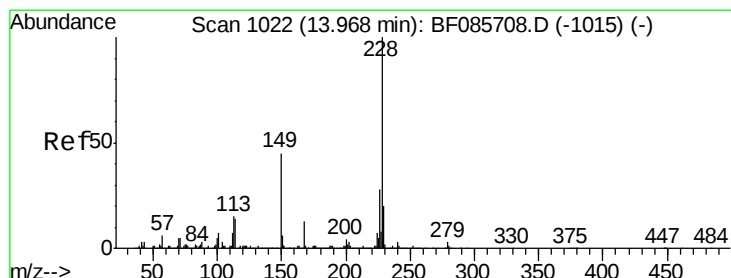
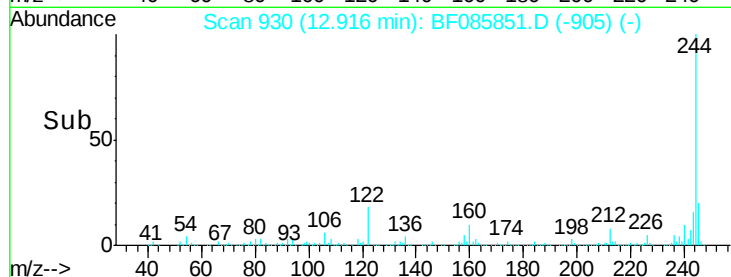
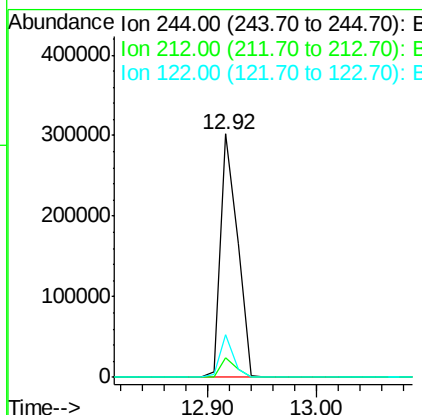
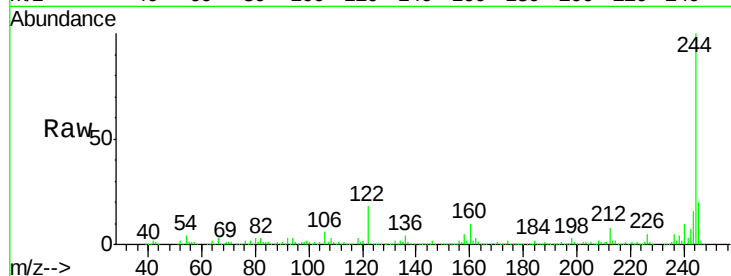
#78
 Terphenyl-d14
 Concen: 31.96 ng
 RT: 12.92 min Scan# 930
 Delta R.T. -0.01 min
 Lab File: BF085851.D
 Acq: 29 Mar 2016 14:32

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(2-3)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.1	6.1	9.1
122	17.6	10.2	15.4

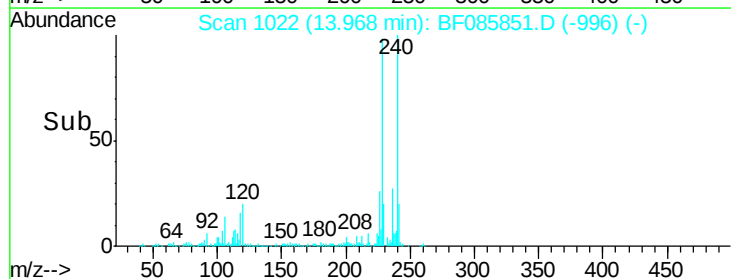
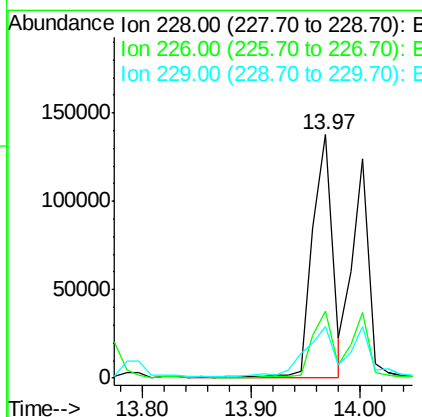
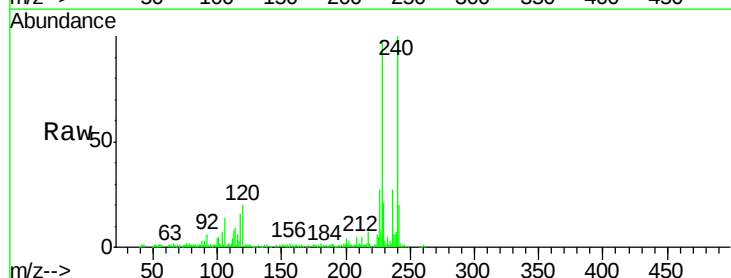
Manual Integrations
 APPROVED

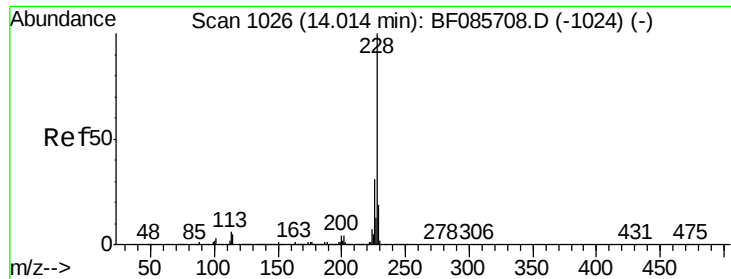
Sohil
 3/29/2016 5:04:49 PM



#80
 Benzo(a)anthracene
 Concen: 14.30 ng
 RT: 13.97 min Scan# 1022
 Delta R.T. -0.00 min
 Lab File: BF085851.D
 Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.5	22.1	33.1
229	21.4	16.2	24.4





#82

Chrysene

Concen: 11.25 ng m

RT: 14.00 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

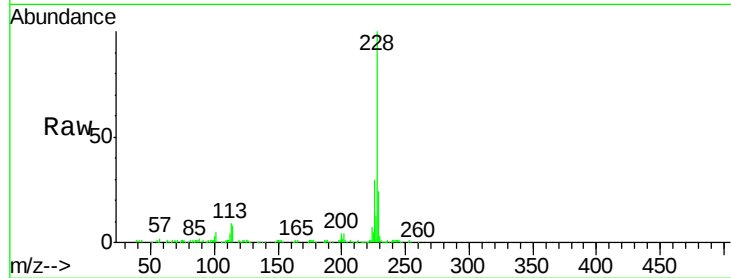
ClientSampleId :

GW-04(2-3)DL

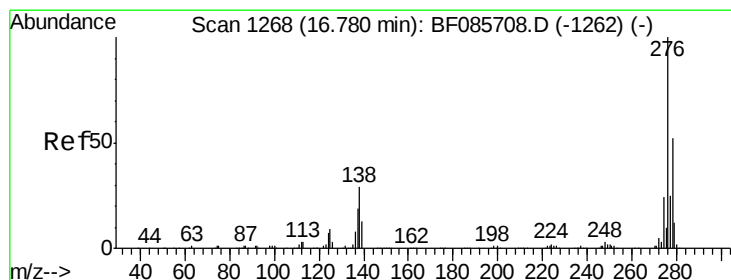
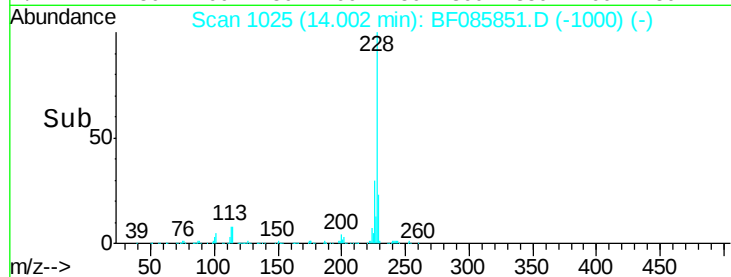
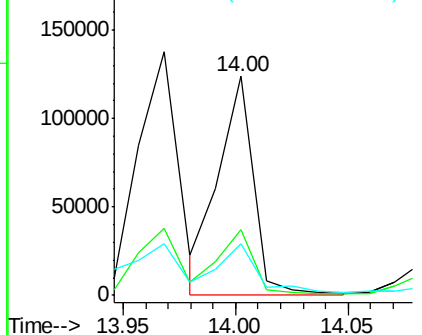
Tgt Ion:	228	Resp:	136614
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.0	37.6
229	23.8	15.7	23.5#

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.77 ng

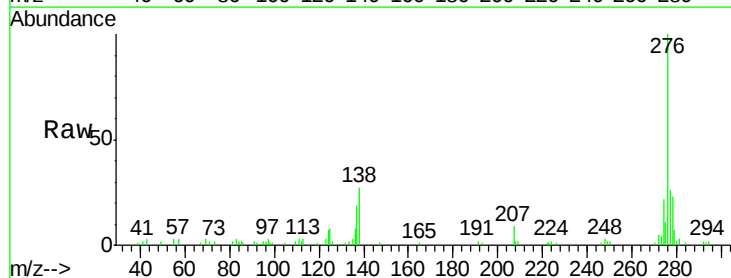
RT: 16.77 min Scan# 1267

Delta R.T. -0.01 min

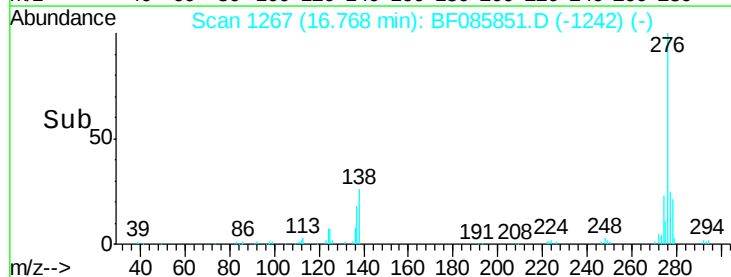
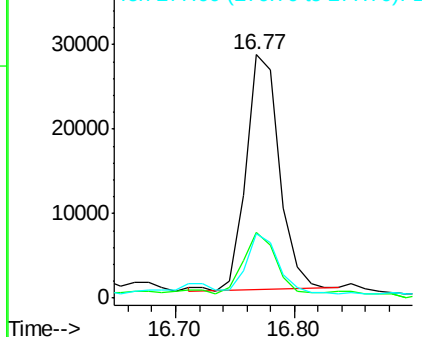
Lab File: BF085851.D

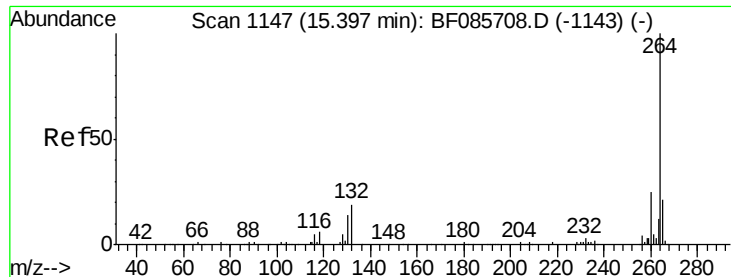
Acq: 29 Mar 2016 14:32

Tgt Ion:	276	Resp:	54141
Ion Ratio	Lower	Upper	
276	100		
138	25.0	24.2	36.4
277	24.8	20.0	30.0



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





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.40 min Scan# 1147

Delta R.T. -0.00 min

Lab File: BF085851.D

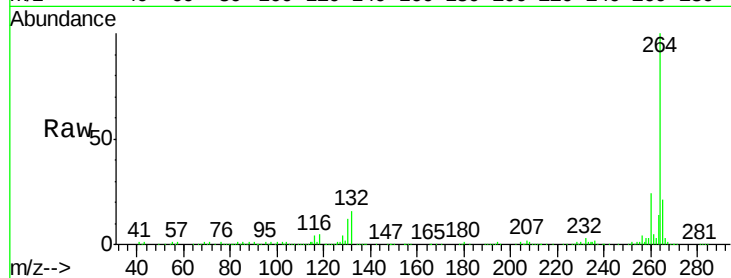
Acq: 29 Mar 2016 14:32

Instrument :

BNA_F

ClientSampleId :

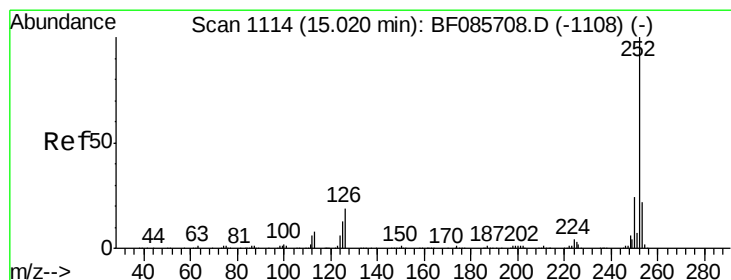
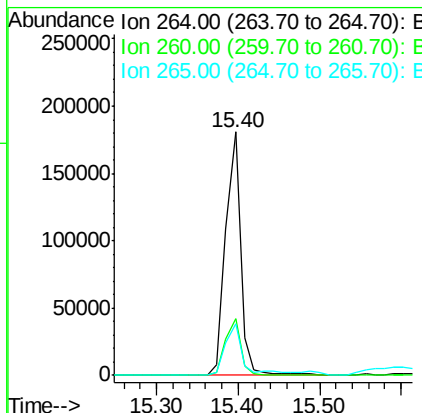
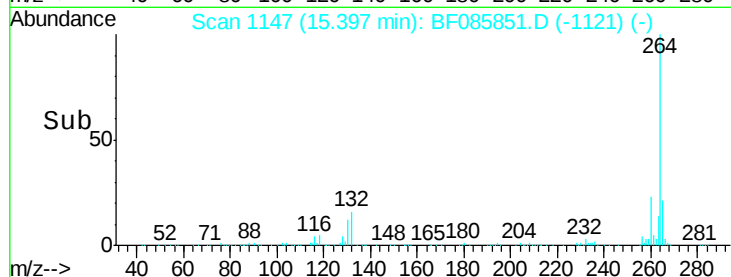
GW-04(2-3)DL



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.2
265	21.4	17.2	25.8

Manual Integrations
APPROVED

Sohil
3/29/2016 5:04:49 PM



#87

Benzo(b)fluoranthene

Concen: 11.54 ng m

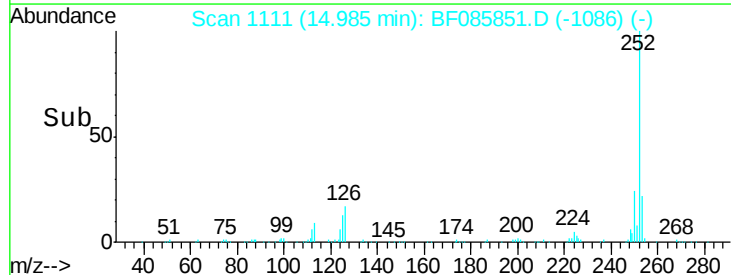
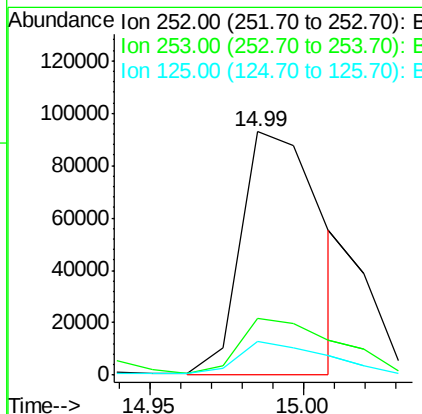
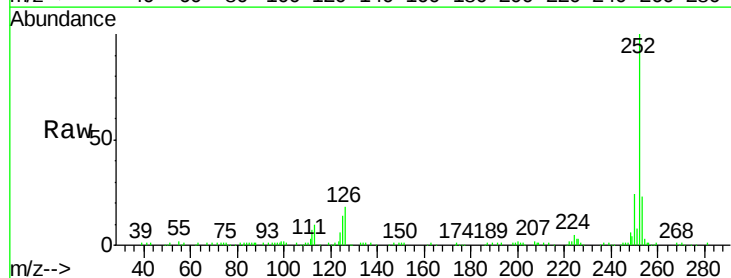
RT: 14.99 min Scan# 1111

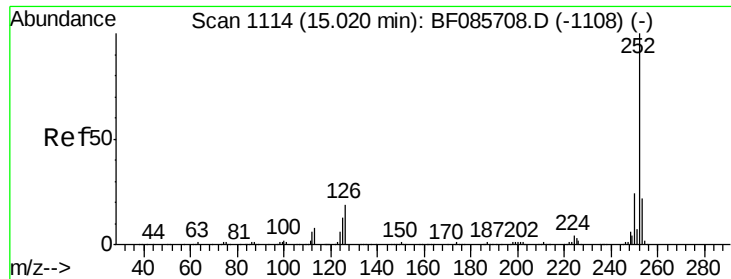
Delta R.T. -0.01 min

Lab File: BF085851.D

Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.6	26.4
125	13.9	10.3	15.5





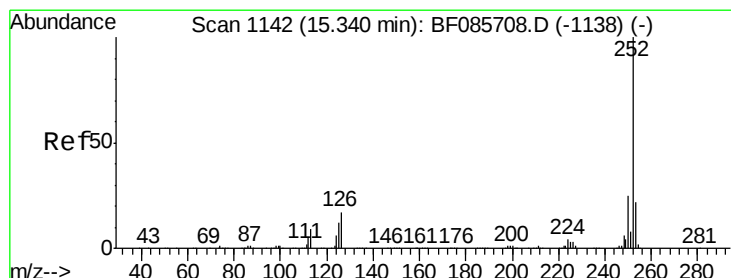
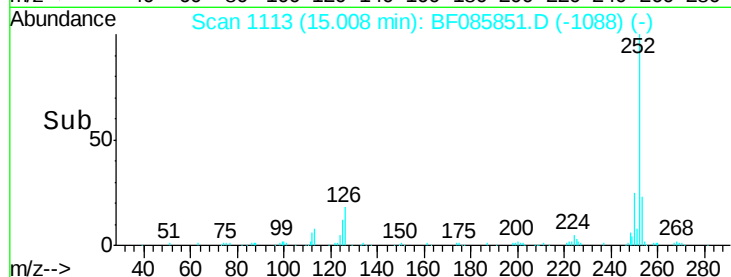
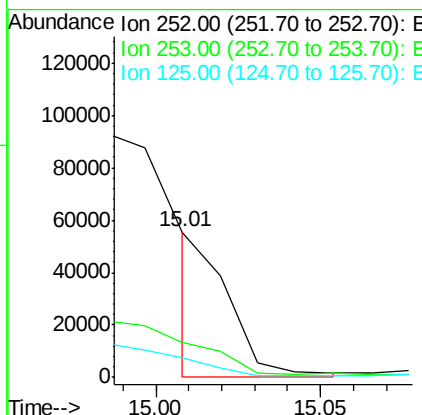
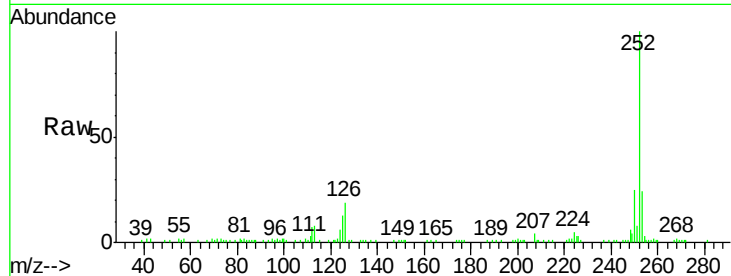
#88
Benzo(k)fluoranthene
Concen: 2.50 ng m
RT: 15.01 min Scan# 1113
Delta R.T. -0.01 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Instrument :
BNA_F
ClientSampleId :
GW-04(2-3)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	13.4	7.7	11.5#

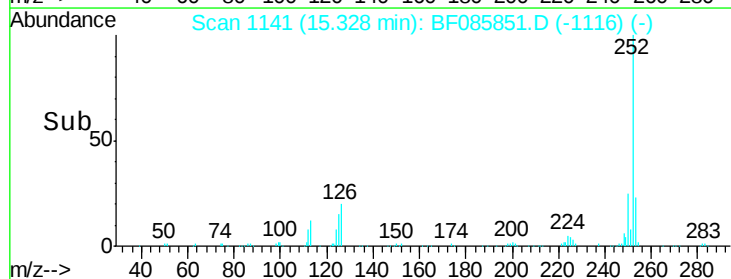
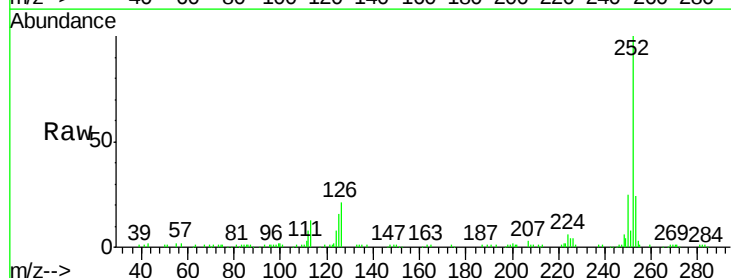
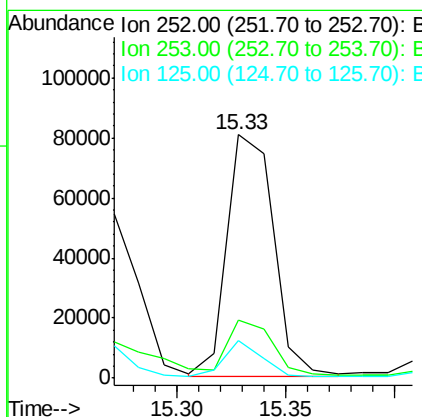
Manual Integrations
APPROVED

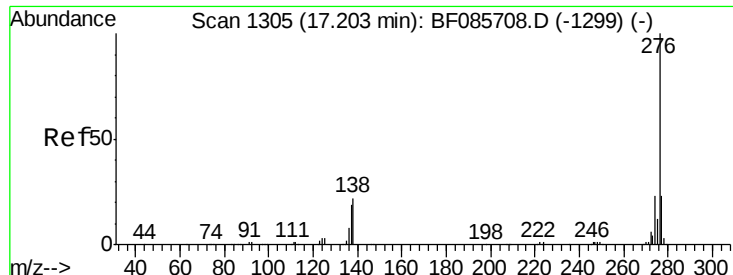
Sohil
3/29/2016 5:04:49 PM



#89
Benzo(a)pyrene
Concen: 9.16 ng
RT: 15.33 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF085851.D
Acq: 29 Mar 2016 14:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.0
125	15.6	10.3	15.5#





#91
 Benzo(g,h,i)perylene
 Concen: 4.40 ng
 RT: 17.19 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF085851.D
 Acq: 29 Mar 2016 14:32

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(2-3)DL

Tgt Ion:	276	Resp:	53890
Ion Ratio	Lower	Upper	
276	100		
277	25.4	18.8	28.2
138	24.2	22.6	34.0

Manual Integrations
 APPROVED

Sohil
 3/29/2016 5:04:49 PM

