

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097742.D
 Acq On : 16 Aug 2017 16:47
 Operator : SJ/JU
 Sample : I4739-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-1

Manual Integrations
 APPROVED

Sohil
 8/17/2017 5:57:36 PM

Quant Time: Aug 17 14:03:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	137916	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	549528	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	240799	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	429843	20.00	ng	0.00
75) Chrysene-d12	13.93	240	250364	20.00	ng	0.00
86) Perylene-d12	15.36	264	241908	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	193176	21.31	ng	-0.01
7) Phenol-d6	6.39	99	261065	21.19	ng	-0.02
23) Nitrobenzene-d5	7.33	82	159303	15.75	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	43868	21.00	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	260707	15.91	ng	-0.01
78) Terphenyl-d14	12.88	244	175088	14.58	ng	-0.01
Target Compounds						
51) Acenaphthene	9.85	154	33041	2.056	ng	95
70) Phenanthrene	11.32	178	679728	29.676	ng	99
71) Anthracene	11.37	178	149228	6.423	ng	99
72) Carbazole	11.52	167	50828	2.305	ng	99
74) Fluoranthene	12.51	202	1031634	43.151	ng	98
77) Pyrene	12.74	202	1054760	51.510	ng	99
80) Benzo(a)anthracene	13.92	228	443110	29.530	ng	98
82) Chrysene	13.96	228	388852	26.050	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	269168m	24.513	ng	
87) Benzo(b)fluoranthene	14.96	252	493792m	32.384	ng	
88) Benzo(k)fluoranthene	14.98	252	177383m	12.382	ng	
89) Benzo(a)pyrene	15.30	252	394618	29.233	ng	98
90) Dibenzo(a,h)anthracene	16.76	278	61026m	5.553	ng	
91) Benzo(g,h,i)perylene	17.18	276	261940	22.843	ng	# 91

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

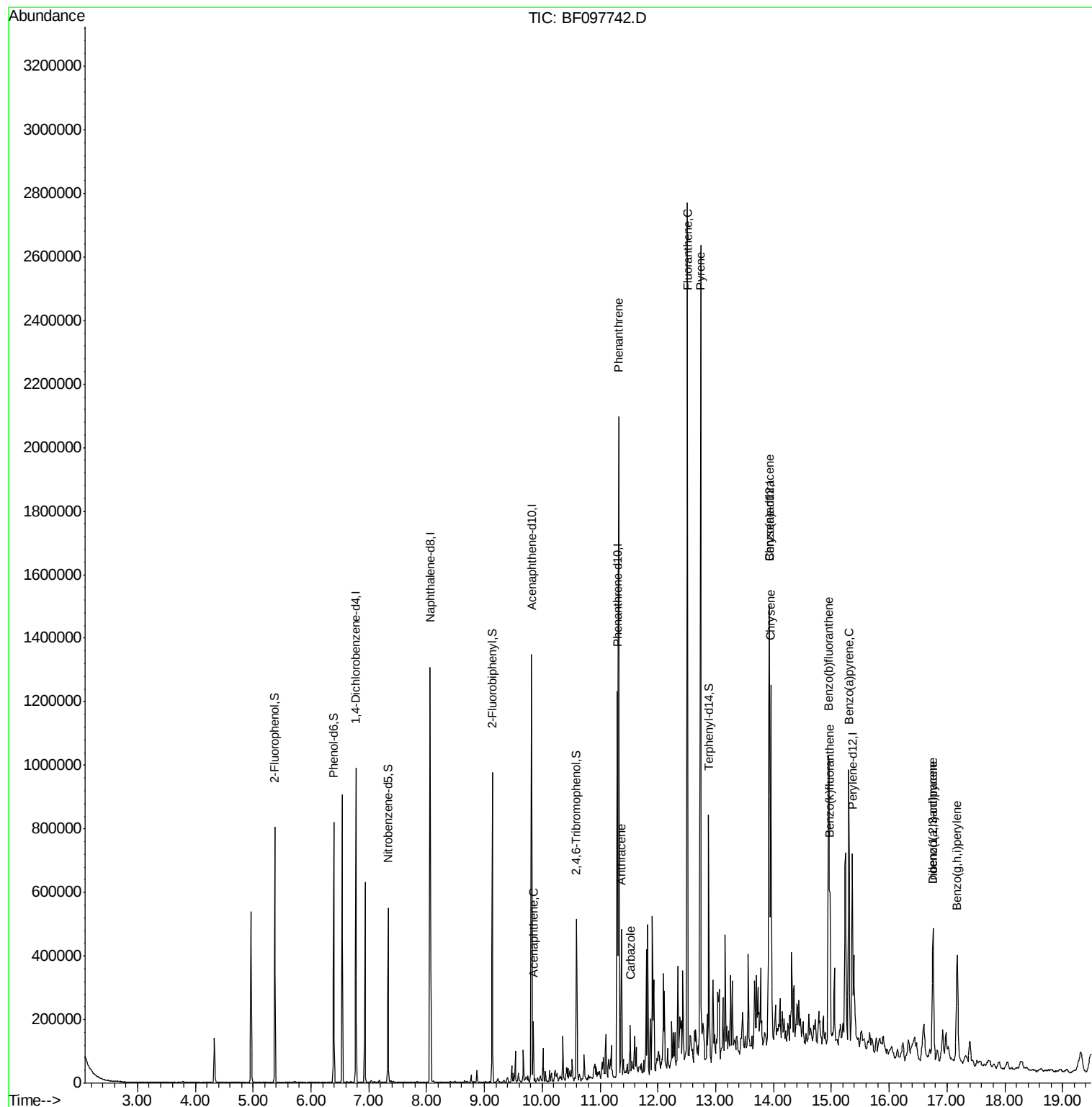
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

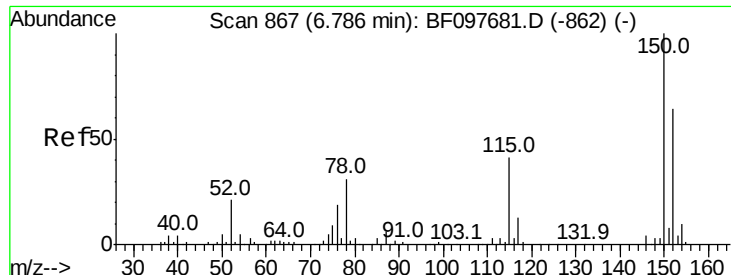
Instrument :
BNA_F
ClientSampleId :
S11-WC-1

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM

Quant Time: Aug 17 14:03:46 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration





#1

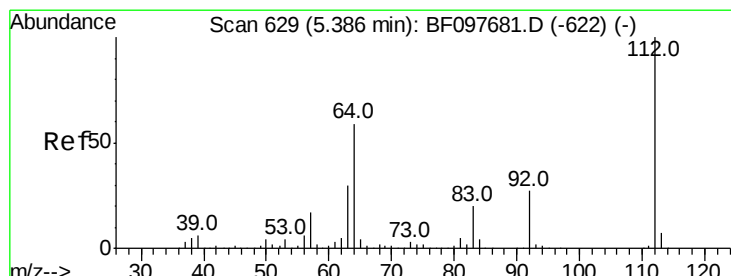
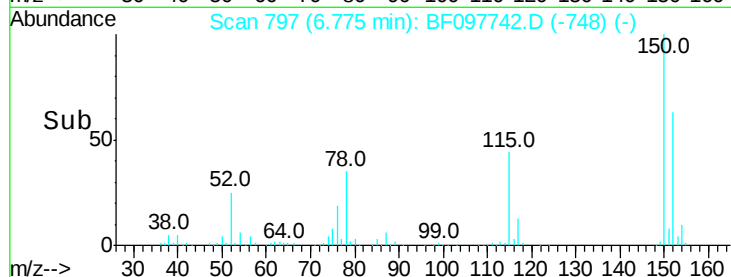
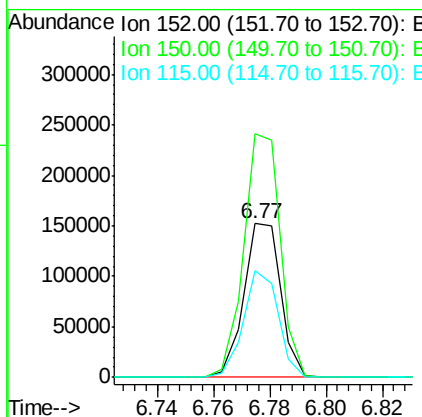
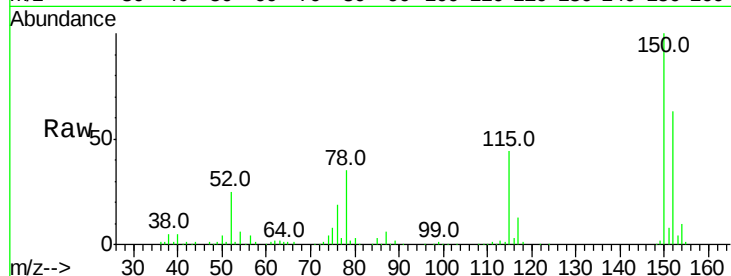
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Instrument :
BNA_F
ClientSampleId :
S11-WC-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	126.2	189.2
115	69.5	52.2	78.2

Manual Integrations
APPROVED

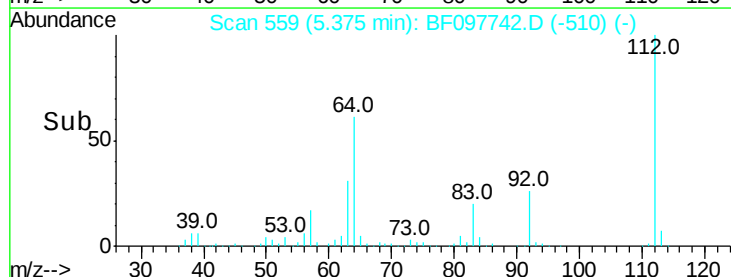
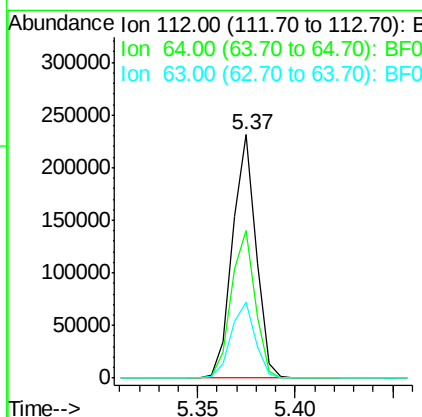
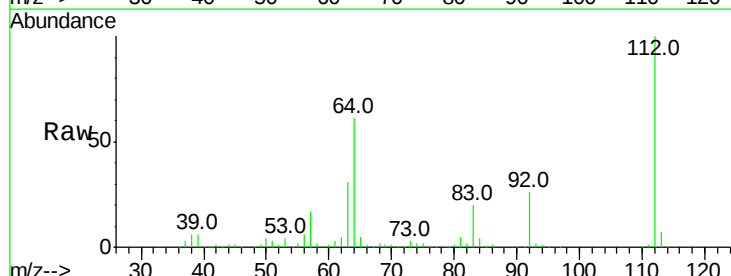
Sohil
8/17/2017 5:57:36 PM

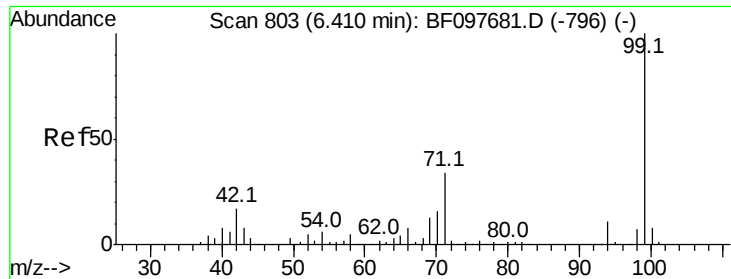


#5

2-Fluorophenol
Concen: 21.305 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	46.0	69.0
63	31.0	23.4	35.0





#7

Phenol-d6

Concen: 21.191 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

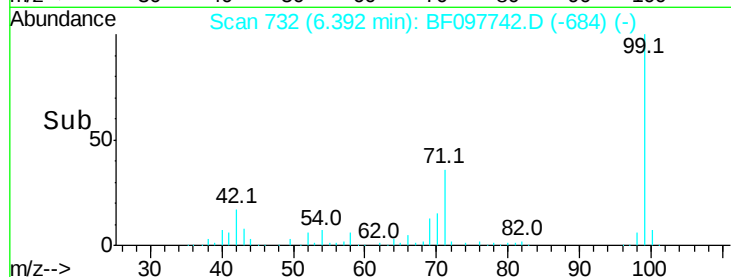
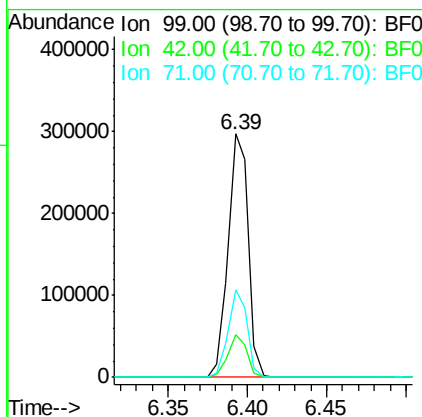
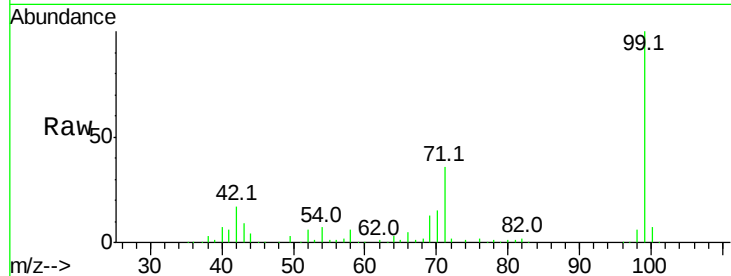
ClientSampleId :

S11-WC-1

Tot Ion:	99	Resp:	261065
Ion Ratio	Lower	Upper	
99	100		
42	17.4	13.5	20.3
71	36.0	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#21

Naphthalene-d8

Concen: 20.000 ng

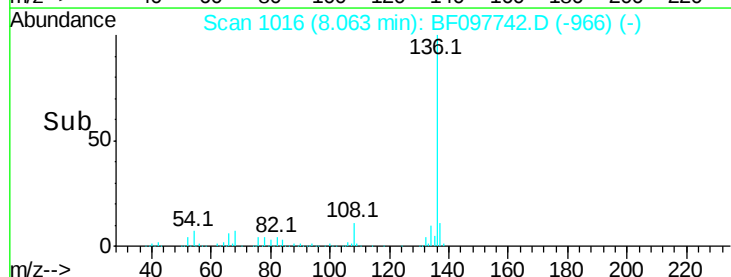
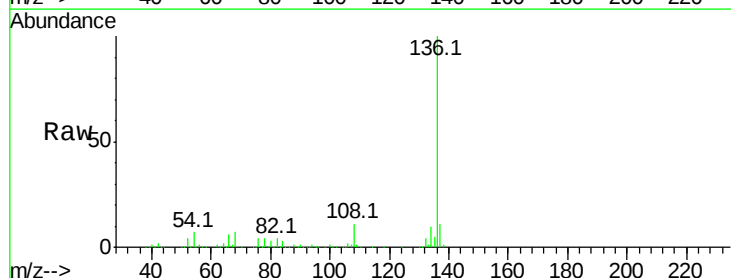
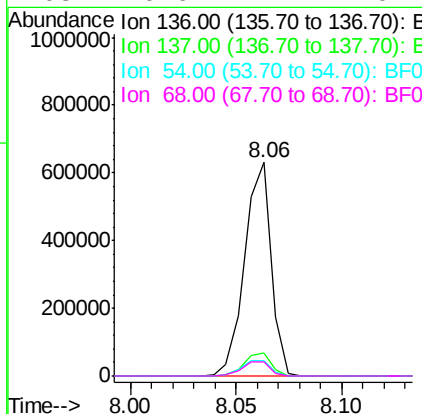
RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion:	136	Resp:	549528
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.2	4.9	7.3
68	6.6	4.1	6.1#





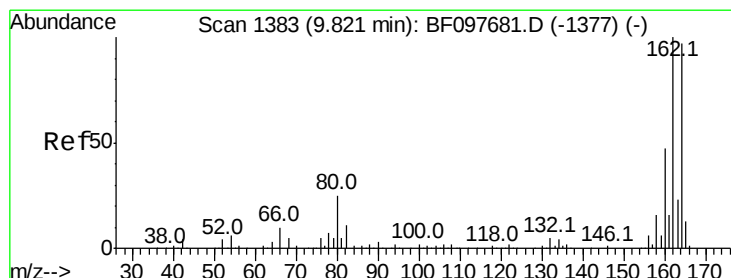
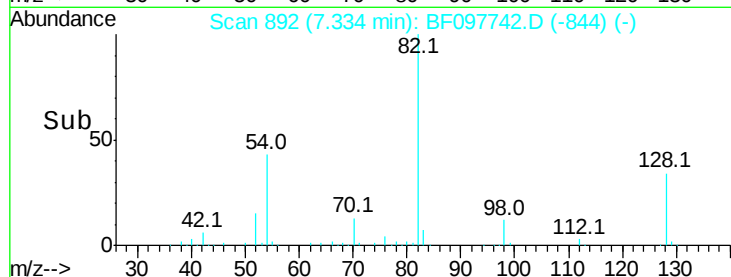
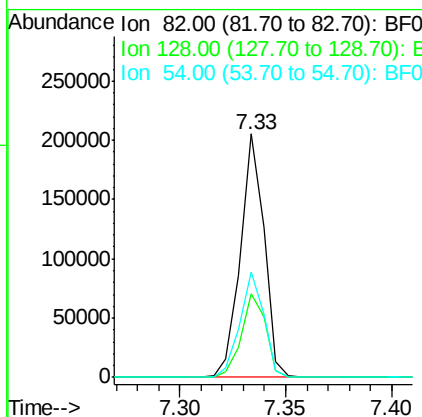
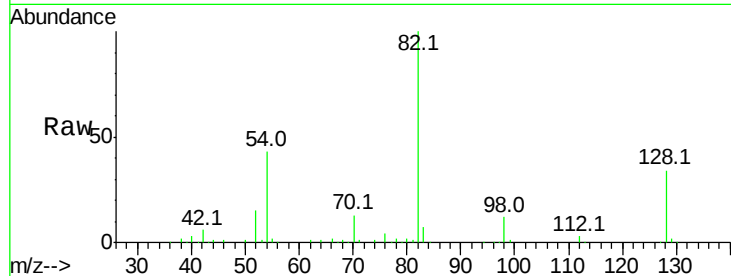
#23
 Nitrobenzene-d5
 Concen: 15.748 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: BF097742.D
 Acq: 16 Aug 2017 16:47

Instrument :
 BNA_F
 ClientSampled :
 S11-WC-1

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	34.4	34.0	51.0	
54	43.0	42.2	63.2	

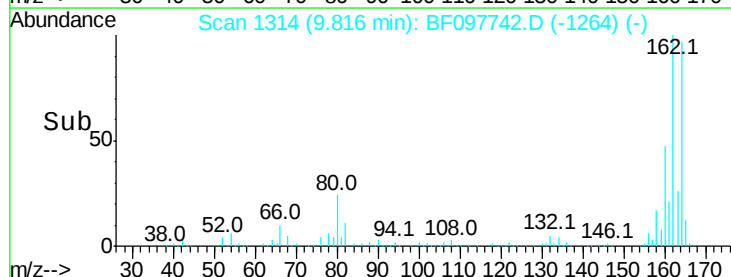
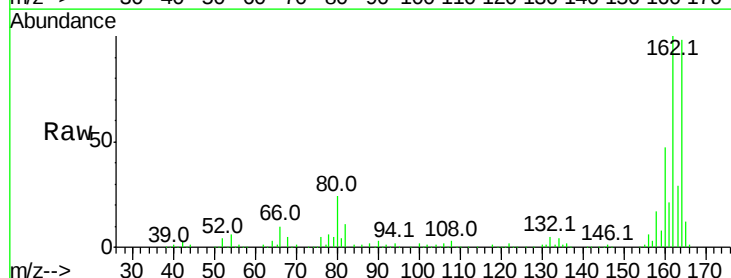
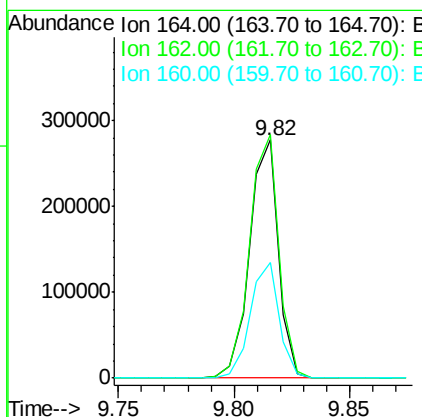
Manual Integrations
 APPROVED

Sohil
 8/17/2017 5:57:36 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: BF097742.D
 Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.3	82.6	123.8	
160	48.4	36.2	54.2	





#41

2,4,6-Tribromophenol

Concen: 20.996 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

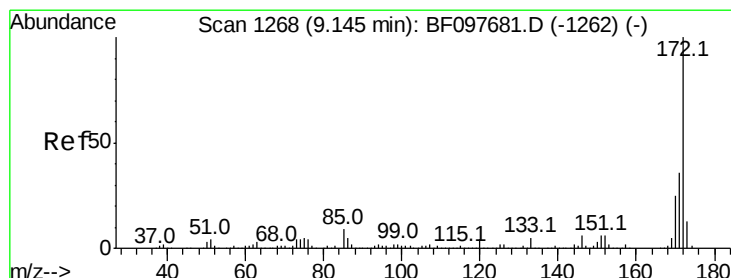
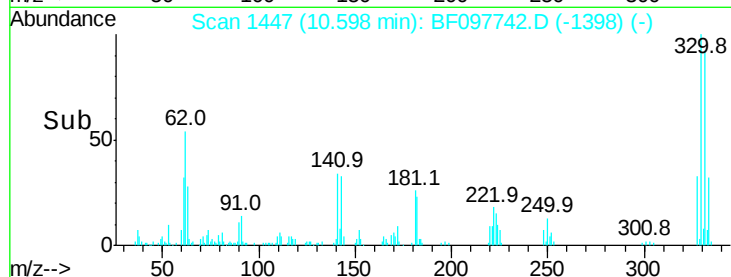
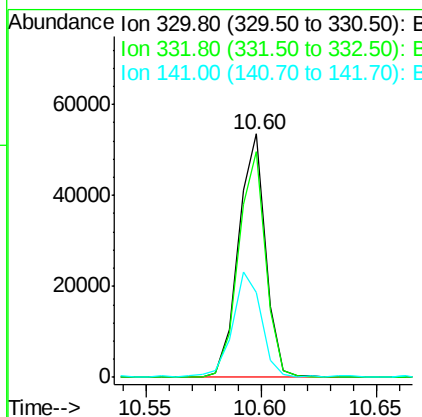
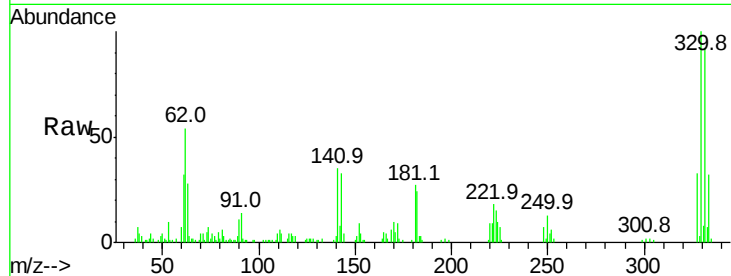
ClientSampleId :

S11-WC-1

Tot Ion:	330	Resp:	43868
Ion Ratio	Lower	Upper	
330	100		
332	92.3	76.6	115.0
141	46.5	31.4	47.2

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#44

2-Fluorobiphenyl

Concen: 15.907 ng

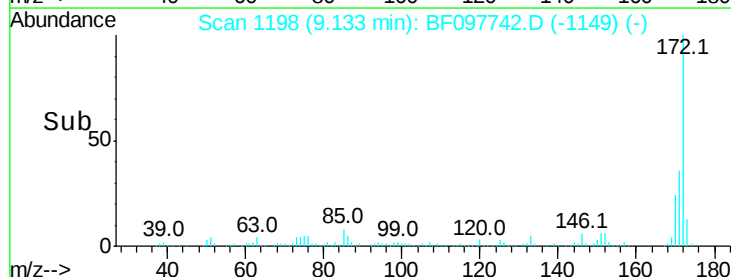
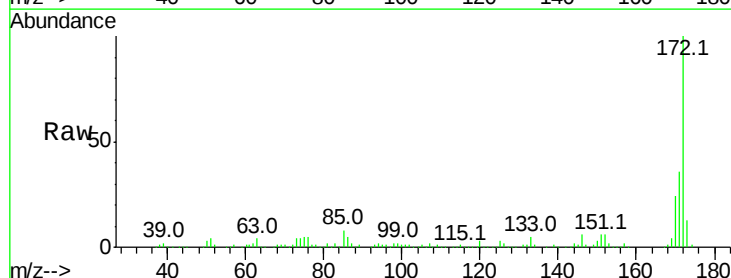
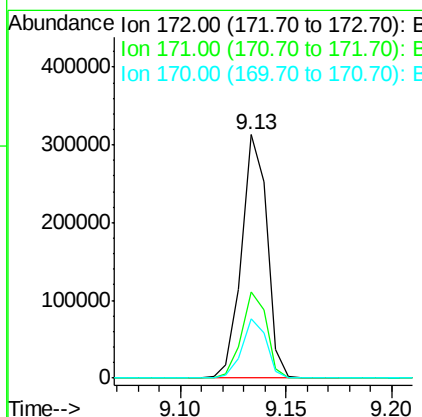
RT: 9.13 min Scan# 1198

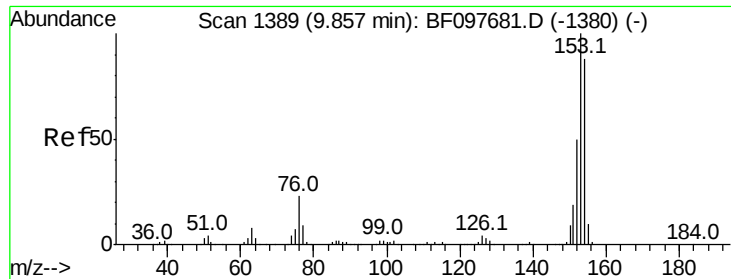
Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion:	172	Resp:	260707
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.6	44.4
170	24.3	19.8	29.8





#51

Acenaphthene

Concen: 2.056 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

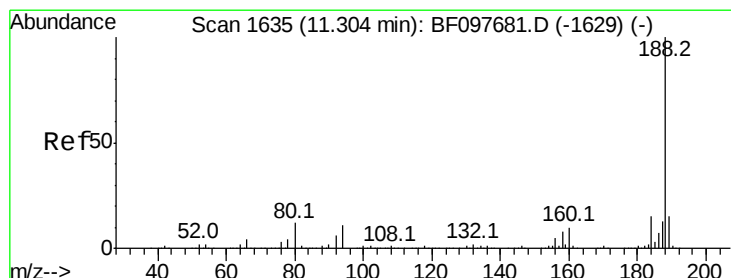
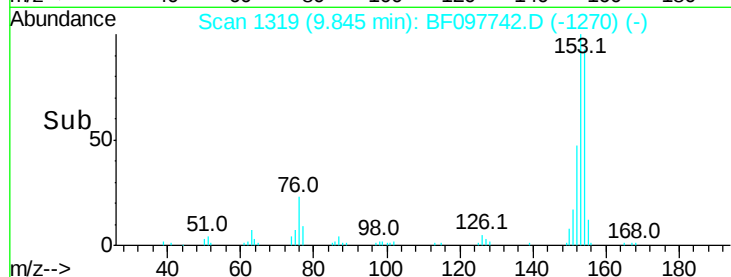
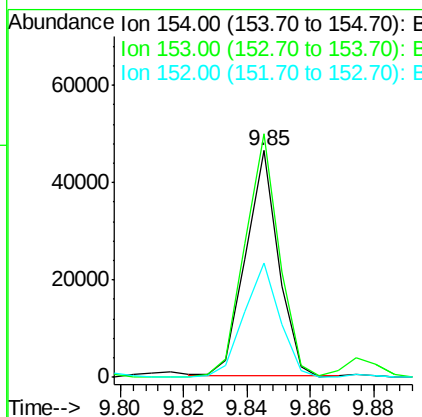
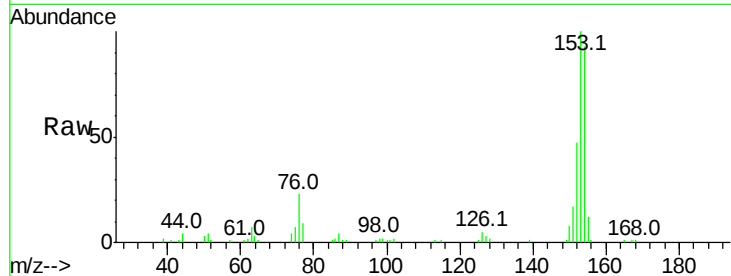
ClientSampleId :

S11-WC-1

Tot Ion:154	Resp:	33041
Ion Ratio	Lower	Upper
154	100	
153	107.4	90.5 135.7
152	50.6	43.6 65.4

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

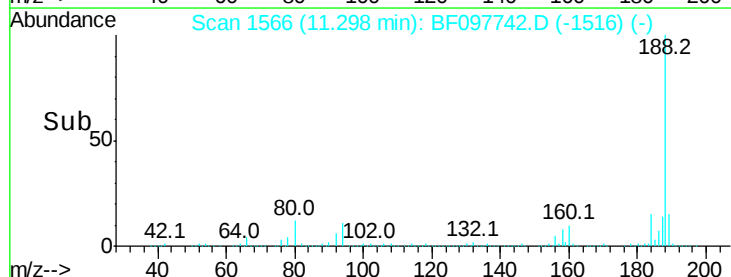
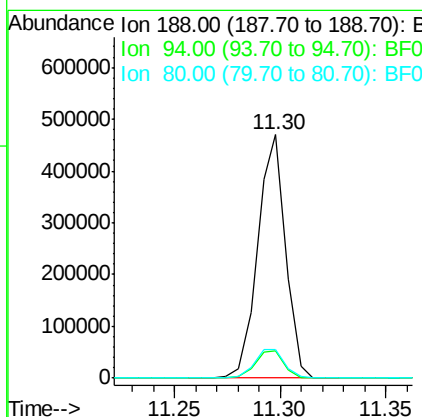
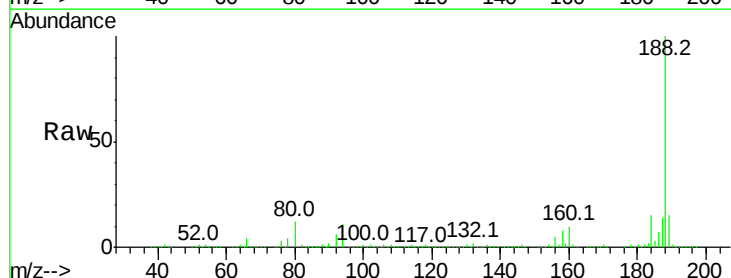
RT: 11.30 min Scan# 1566

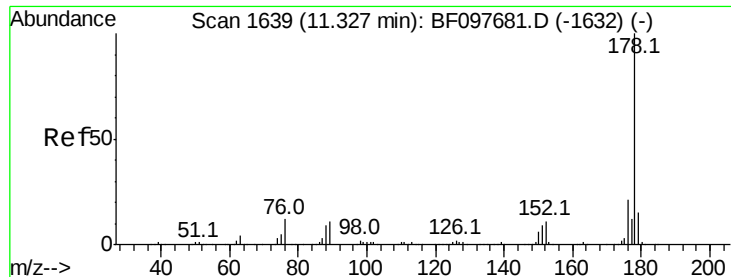
Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion:188	Resp:	429843
Ion Ratio	Lower	Upper
188	100	
94	11.1	9.4 14.2
80	12.0	10.2 15.2





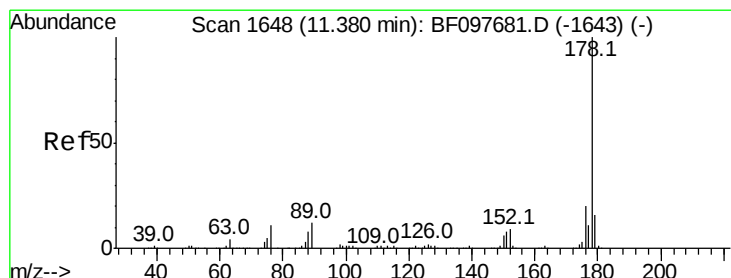
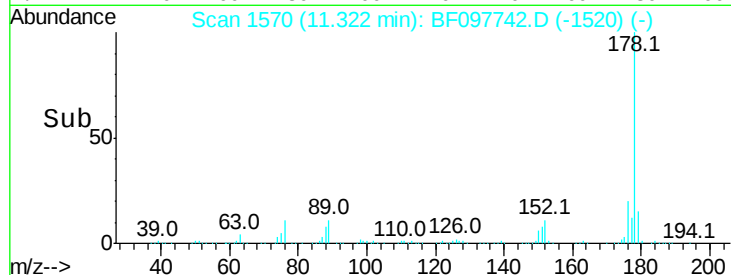
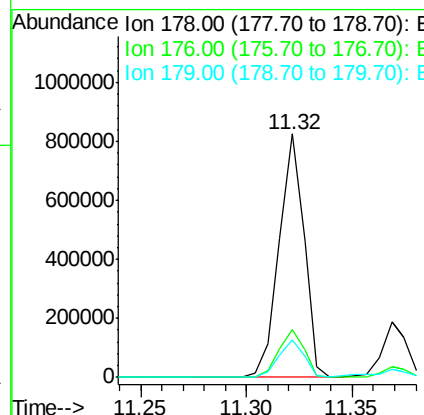
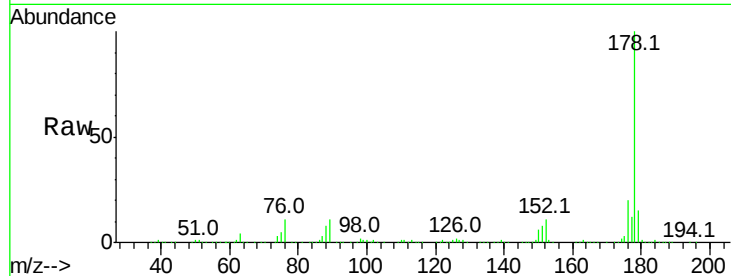
#70
Phenanthrene
Concen: 29.676 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Instrument :
BNA_F
ClientSampled :
S11-WC-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	15.4	12.6	19.0

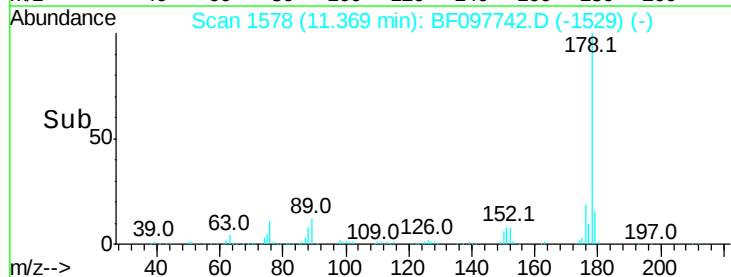
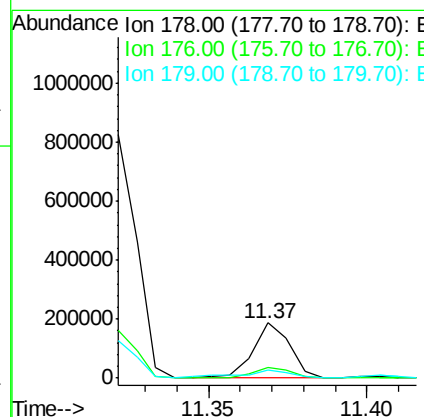
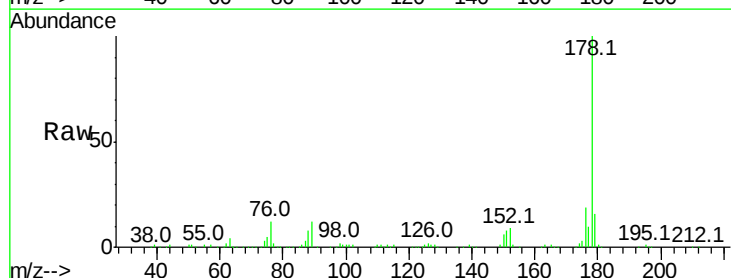
Manual Integrations
APPROVED

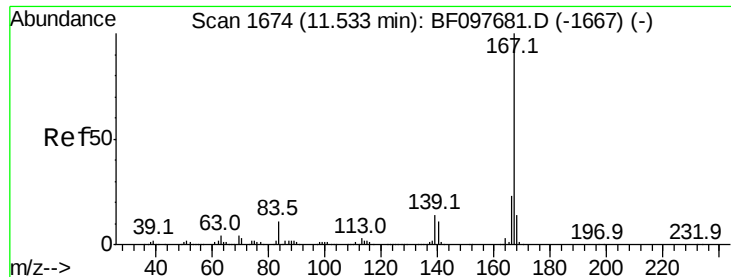
Sohil
8/17/2017 5:57:36 PM



#71
Anthracene
Concen: 6.423 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.7	12.7	19.1





#72

Carbazole

Concen: 2.305 ng

RT: 11.52 min Scan# 1604

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

ClientSampleId :

S11-WC-1

Tot Ion:167 Resp: 50828

Ion Ratio Lower Upper

167 100

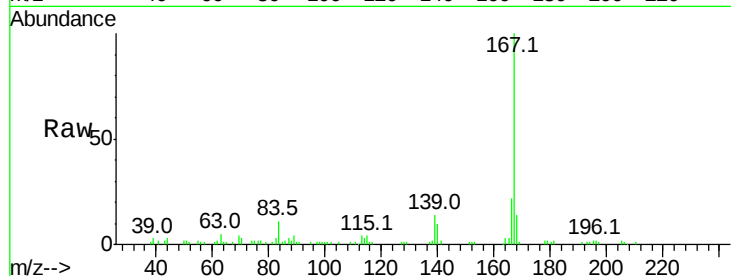
166 22.4 18.1 27.1

139 13.6 11.7 17.5

Manual Integrations
APPROVED

Sohil

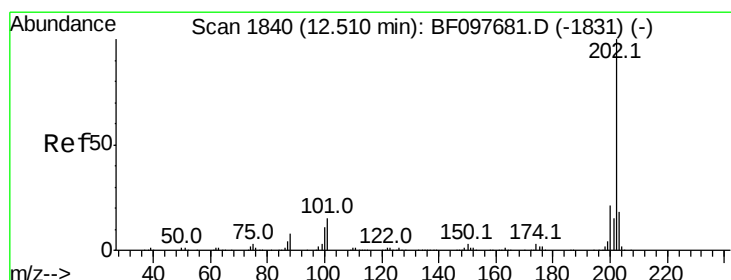
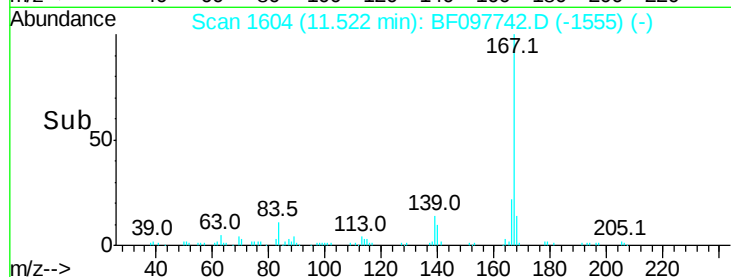
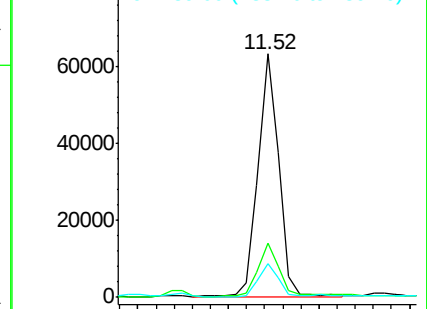
8/17/2017 5:57:36 PM



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 43.151 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

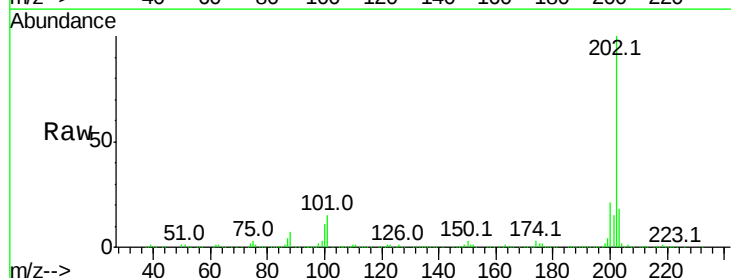
Tgt Ion:202 Resp: 1031634

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.2

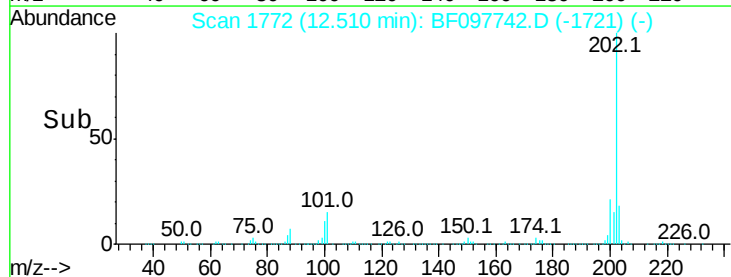
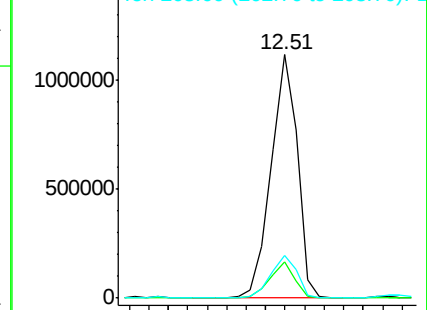
203 17.8 0.0 38.1

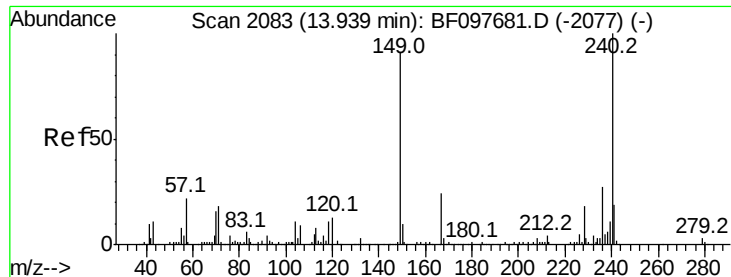


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

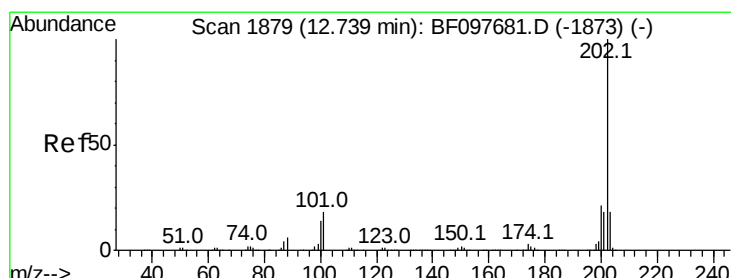
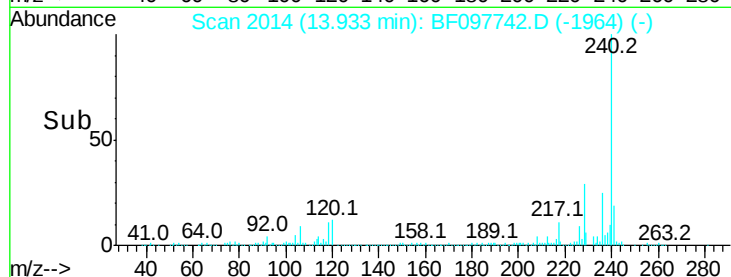
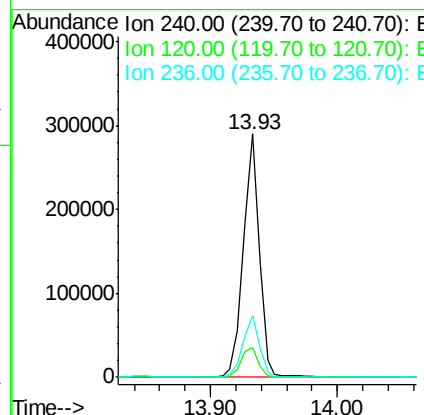
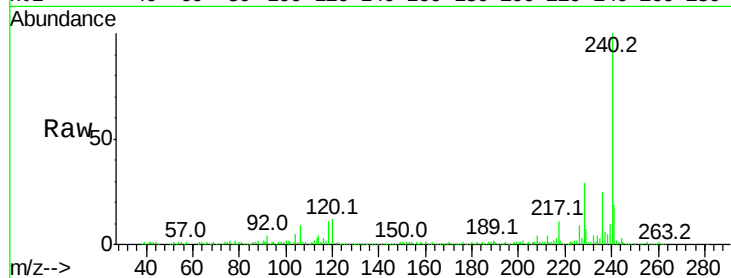
ClientSampled :

S11-WC-1

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.3	5.8	8.8#
236	25.3	20.5	30.7

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#77

Pyrene

Concen: 51.510 ng

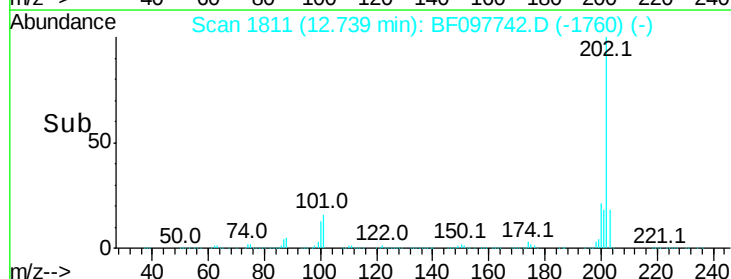
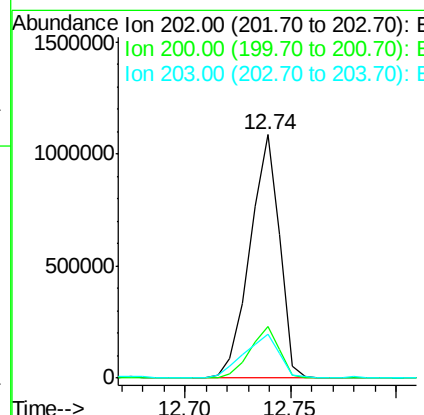
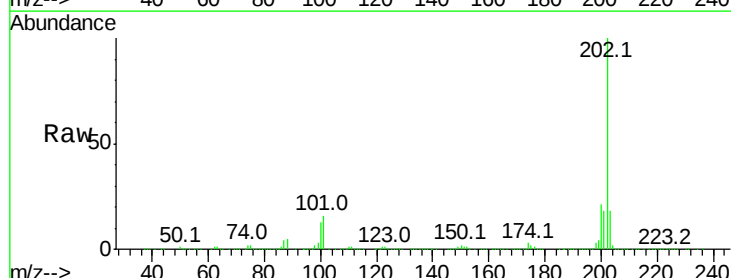
RT: 12.74 min Scan# 1811

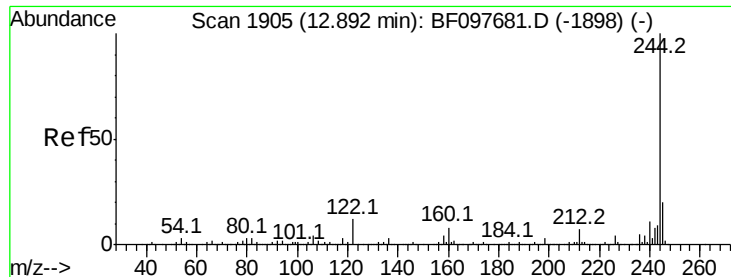
Delta R.T. 0.00 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.6	26.4
203	18.2	14.4	21.6





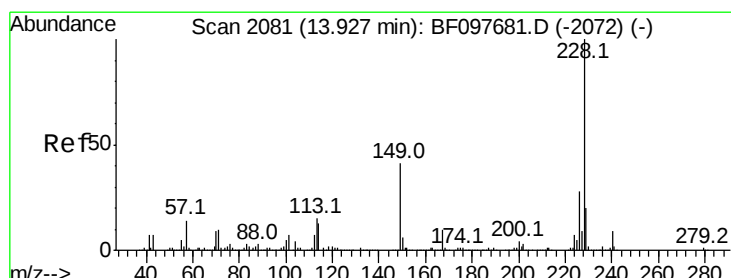
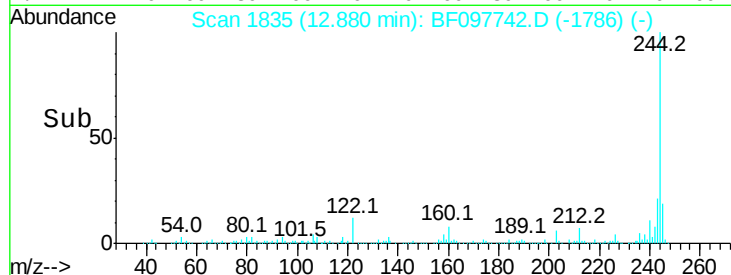
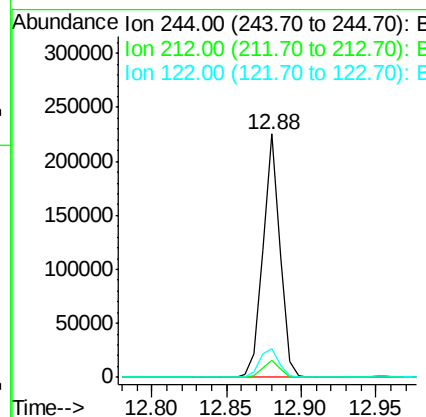
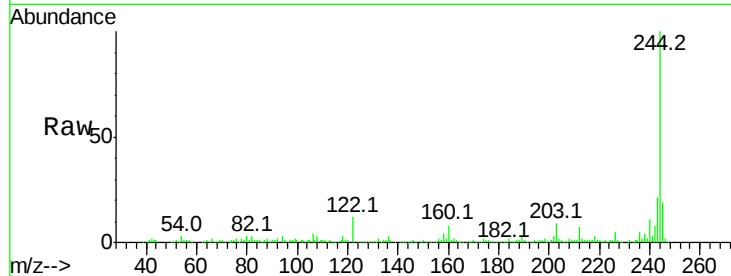
#78
 Terphenyl-d14
 Concen: 14.583 ng
 RT: 12.88 min Scan# 1835
 Delta R.T. -0.01 min
 Lab File: BF097742.D
 Acq: 16 Aug 2017 16:47

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	11.9	10.3	15.5

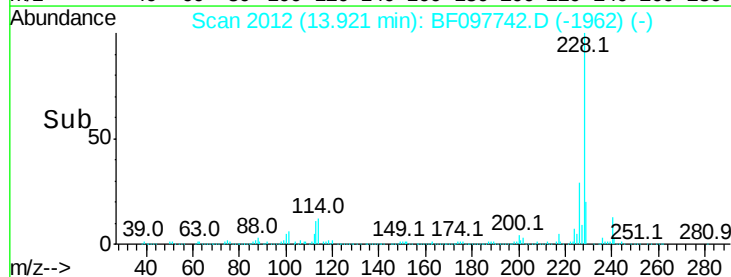
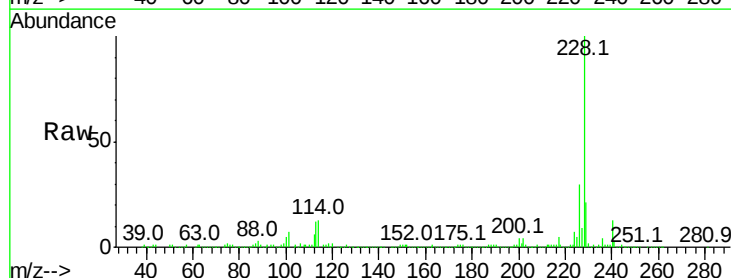
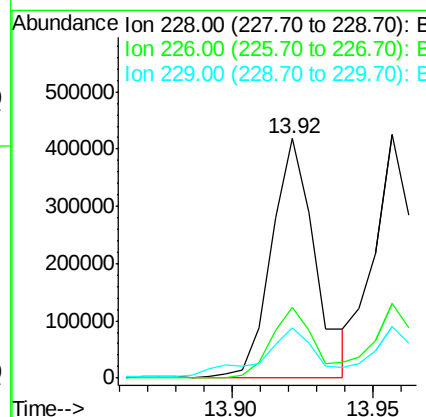
Manual Integrations
 APPROVED

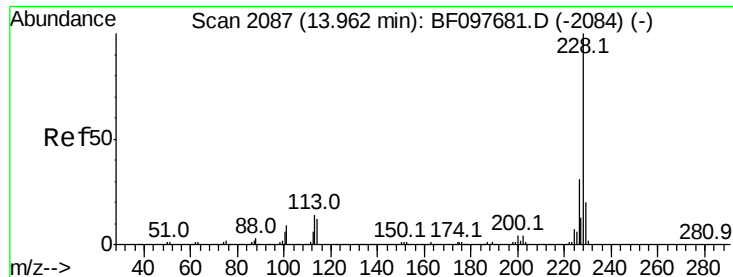
Sohil
 8/17/2017 5:57:36 PM



#80
 Benzo(a)anthracene
 Concen: 29.530 ng
 RT: 13.92 min Scan# 2012
 Delta R.T. -0.01 min
 Lab File: BF097742.D
 Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	20.9	16.3	24.5





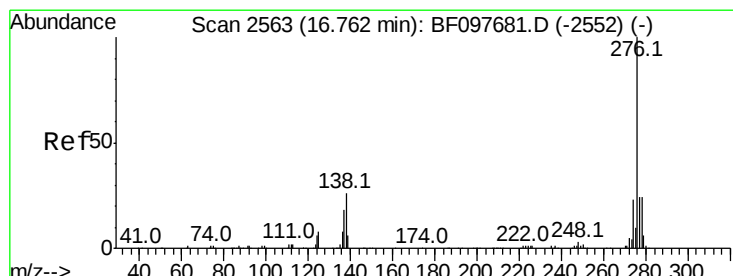
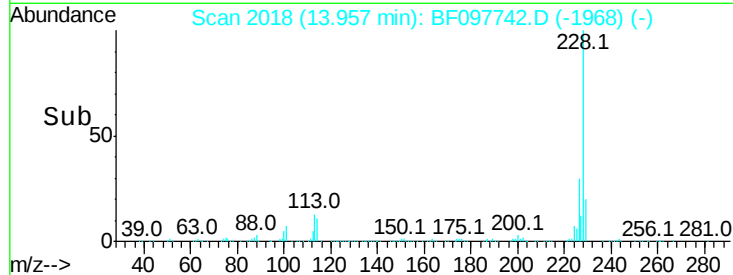
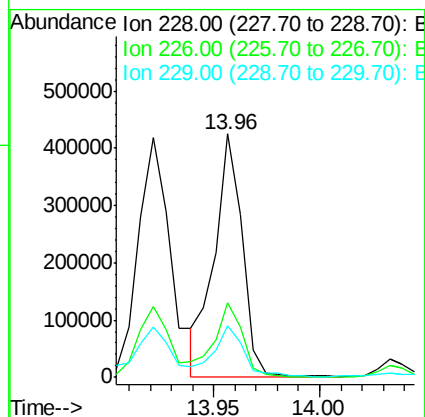
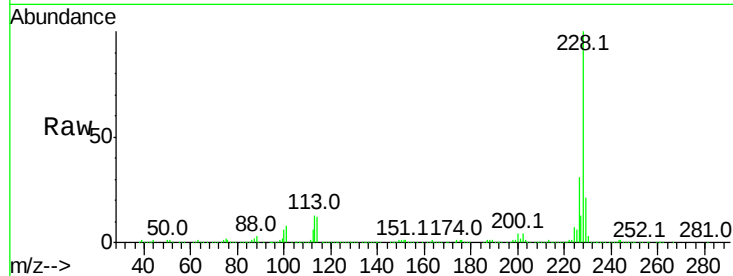
#82
Chrysene
Concen: 26.050 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Instrument :
BNA_F
ClientSampled :
S11-WC-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.1	15.8	23.6

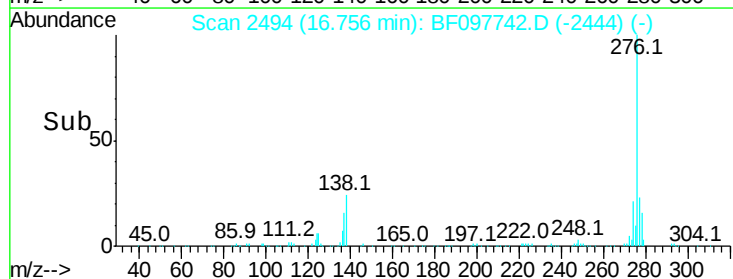
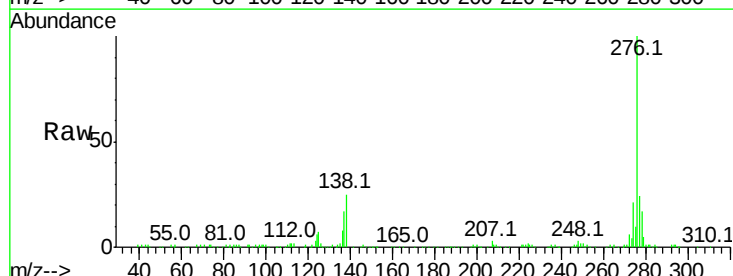
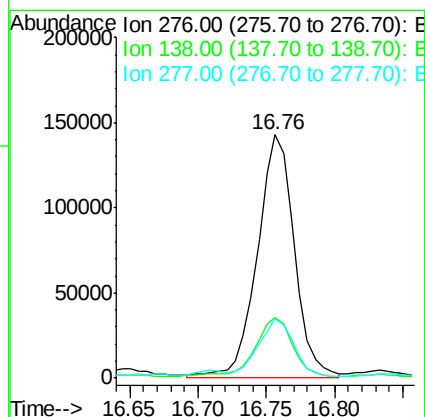
Manual Integrations
APPROVED

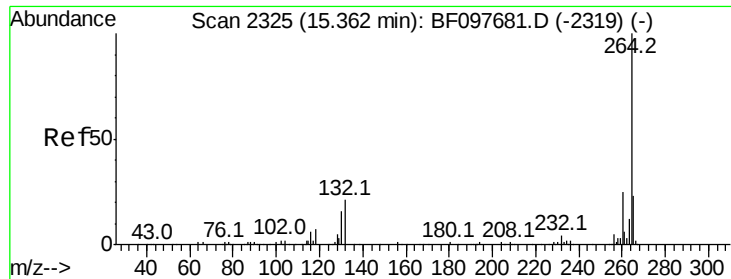
Sohil
8/17/2017 5:57:36 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 24.513 ng m
RT: 16.76 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.1	27.8	41.6#
277	4.6	20.2	30.4#





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.00 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

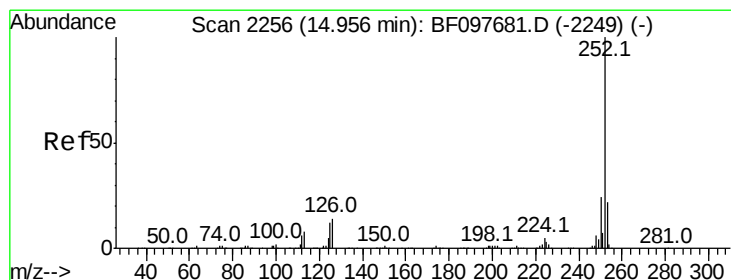
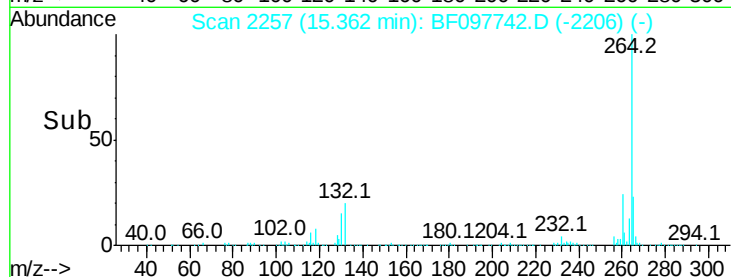
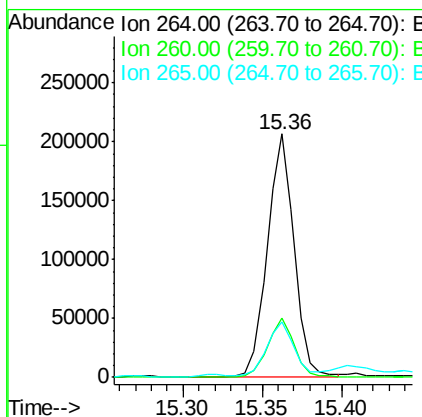
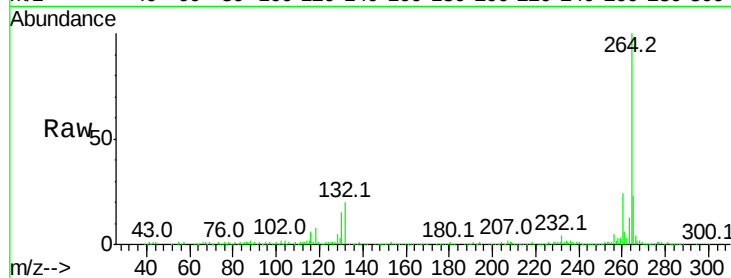
ClientSampled :

S11-WC-1

Tot Ion:	264	Resp:	241908
Ion Ratio		Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.7	17.2	25.8

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#87

Benzo(b)fluoranthene

Concen: 32.384 ng m

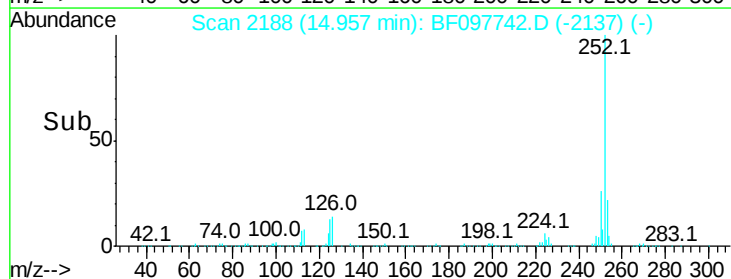
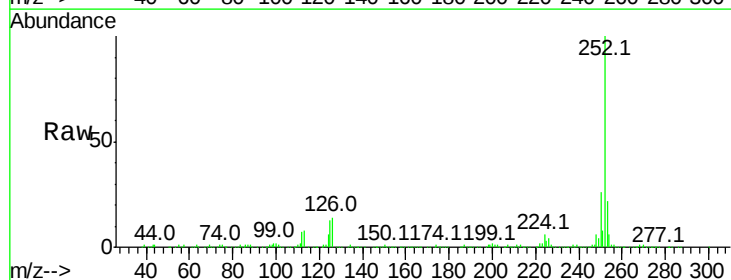
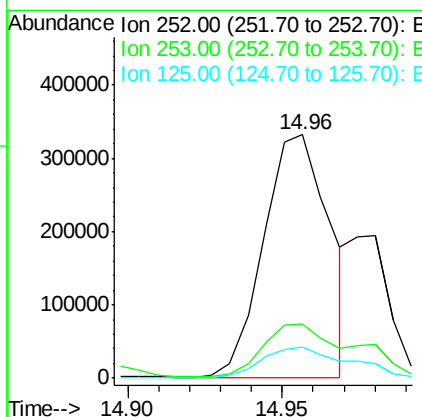
RT: 14.96 min Scan# 2188

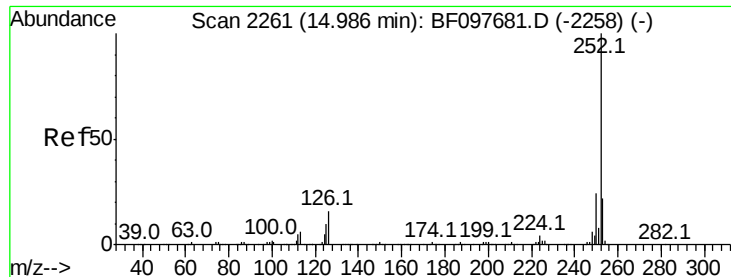
Delta R.T. 0.00 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion:	252	Resp:	493792
Ion Ratio		Lower	Upper
252	100		
253	22.4	18.1	27.1
125	12.7	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 12.382 ng

RT: 14.98 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Instrument :

BNA_F

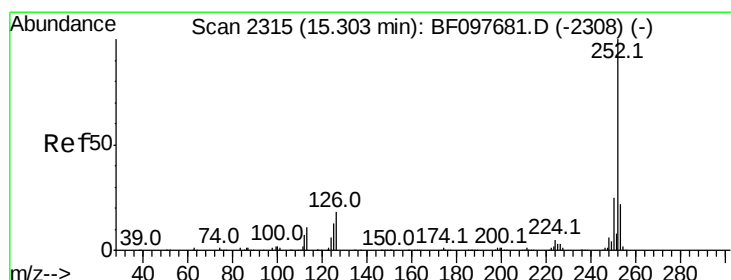
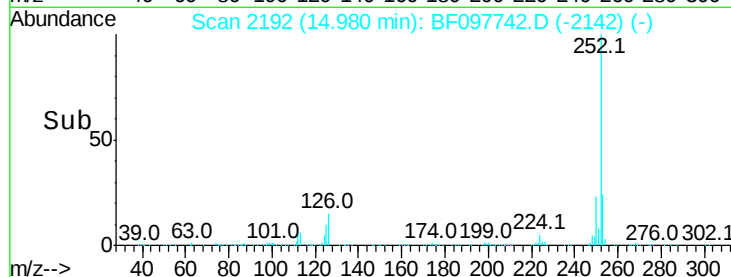
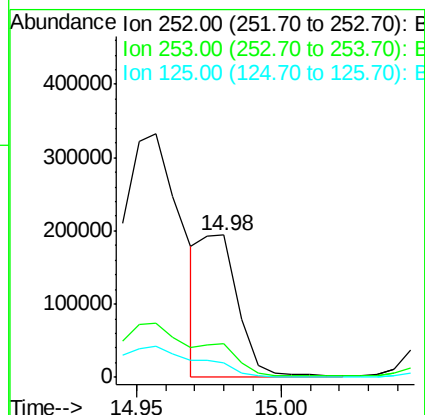
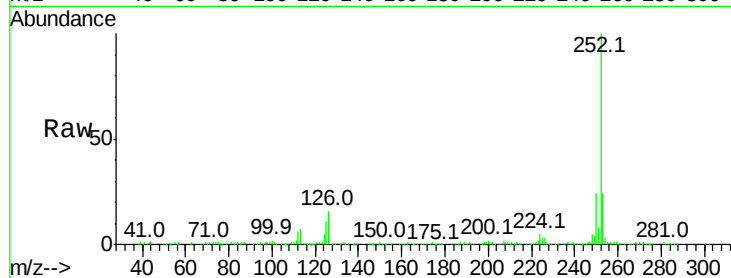
ClientSampled :

S11-WC-1

Tot Ion:	252	Resp:	177383
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.4	27.6
125	10.6	13.1	19.7

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#89

Benzo(a)pyrene

Concen: 29.233 ng

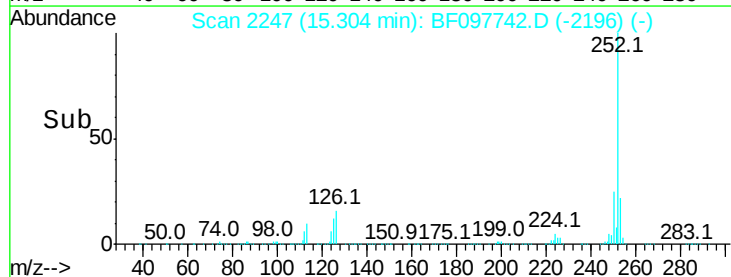
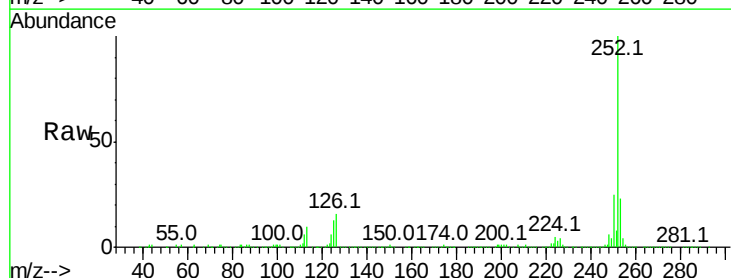
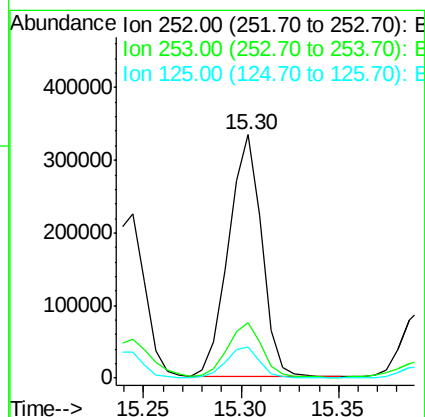
RT: 15.30 min Scan# 2247

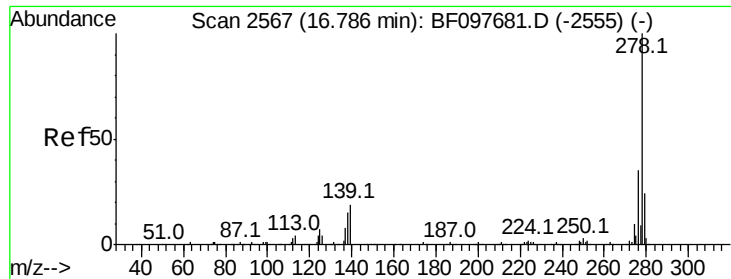
Delta R.T. 0.00 min

Lab File: BF097742.D

Acq: 16 Aug 2017 16:47

Tgt Ion:	252	Resp:	394618
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	12.6	11.0	16.4





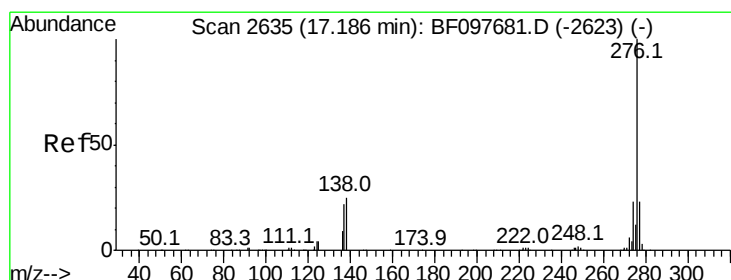
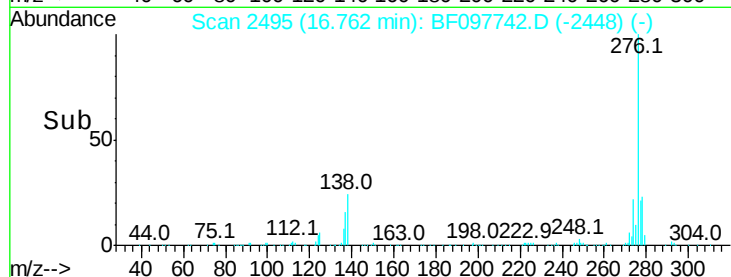
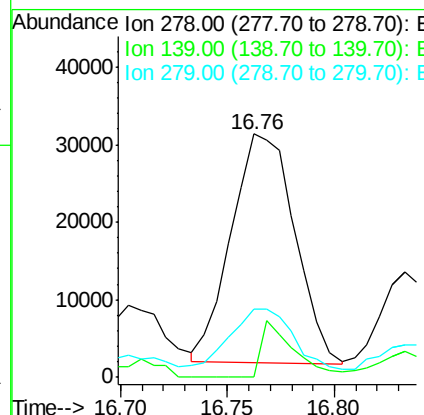
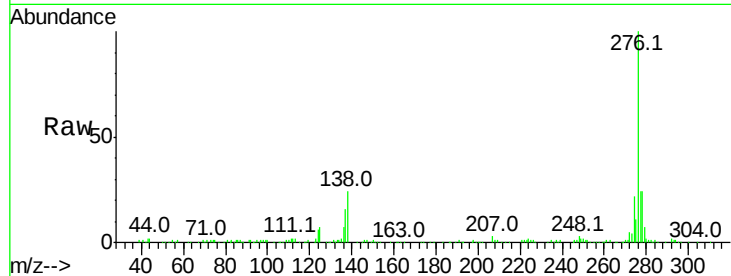
#90
Dibenzo(a,h)anthracene
Concen: 5.553 ng m
RT: 16.76 min Scan# 2495
Delta R.T. -0.02 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Instrument :
BNA_F
ClientSampleId :
S11-WC-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.9	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/17/2017 5:57:36 PM



#91
Benzo(g,h,i)perylene
Concen: 22.843 ng
RT: 17.18 min Scan# 2566
Delta R.T. -0.01 min
Lab File: BF097742.D
Acq: 16 Aug 2017 16:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.6	28.0
138	24.2	25.4	38.0#

