

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097260.D
 Acq On : 2 Aug 2017 7:55
 Operator : SJ/JU
 Sample : I4527-06 5X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N8-BASE

Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:46 PM

Quant Time: Aug 02 16:11:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	104742	20.00	ng	-0.04
21) Naphthalene-d8	7.75	136	368323	20.00	ng	-0.04
38) Acenaphthene-d10	9.49	164	131569	20.00	ng	-0.04
63) Phenanthrene-d10	10.96	188	205938	20.00	ng	-0.04
75) Chrysene-d12	13.59	240	213902	20.00	ng	-0.04
86) Perylene-d12	14.93	264	150904	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	184992	26.62	ng	-0.03
7) Phenol-d6	6.13	99	221830	27.97	ng	-0.04
23) Nitrobenzene-d5	7.03	82	88769	14.14	ng	-0.05
41) 2,4,6-Tribromophenol	10.28	330	21626	20.80	ng	-0.04
44) 2-Fluorobiphenyl	8.82	172	129339	16.68	ng	-0.05
78) Terphenyl-d14	12.55	244	94515	9.01	ng	-0.04
Target Compounds				Qvalue		
11) bis(2-Chloroethyl)ether	6.20	93	57330	7.704	ng	91
12) 1,3-Dichlorobenzene	6.40	146	16639	2.078	ng	98
13) 1,4-Dichlorobenzene	6.48	146	38061	4.797	ng	95
14) 1,2-Dichlorobenzene	6.63	146	19688	2.842	ng	99
31) Naphthalene	7.77	128	357027	20.563	ng	100
37) 2-Methylnaphthalene	8.46	142	303681	27.625	ng	99
45) 1,1'-Biphenyl	8.92	154	32655	2.906	ng	95
49) Dimethylphthalate	9.22	163	34284	3.431	ng	99
51) Acenaphthene	9.52	154	20042	2.681	ng	94
57) Fluorene	10.03	166	24461	3.268	ng	# 94
67) Hexachlorobenzene	10.59	284	13510	5.862	ng	# 84
70) Phenanthrene	10.99	178	121882	11.046	ng	97
71) Anthracene	11.04	178	28080	2.485	ng	98
74) Fluoranthene	12.17	202	79286	7.335	ng	96
77) Pyrene	12.39	202	76392	4.362	ng	97
80) Benzo(a)anthracene	13.58	228	36750	2.655	ng	97
82) Chrysene	13.62	228	36204	2.679	ng	95
87) Benzo(b)fluoranthene	14.58	252	25848m	2.849	ng	
89) Benzo(a)pyrene	14.89	252	18997	2.288	ng	# 96

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

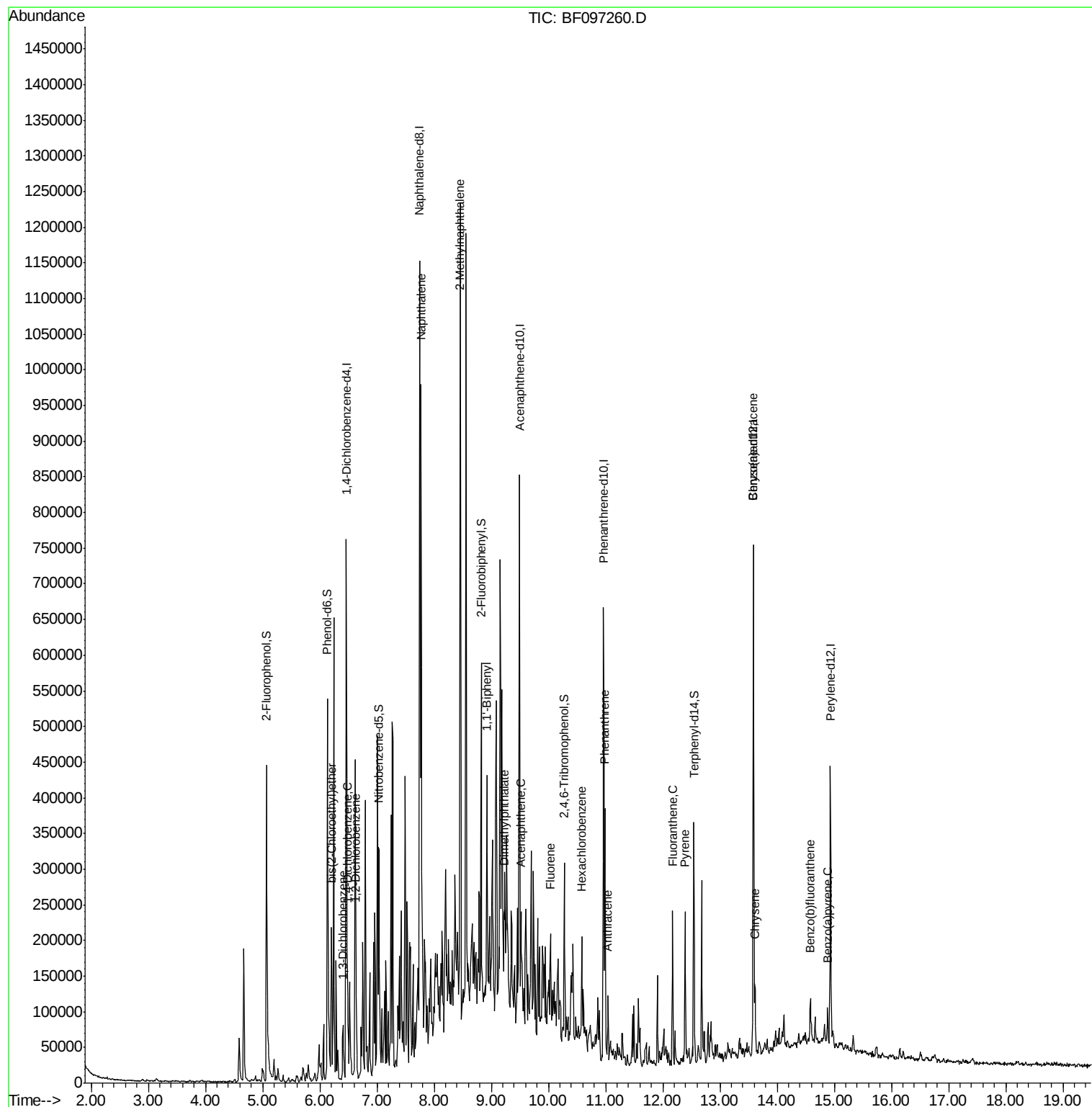
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
Data File : BF097260.D
Acq On : 2 Aug 2017 7:55
Operator : SJ/JU
Sample : I4527-06 5X
Misc :
ALS Vial : 36 Sample Multiplier: 1

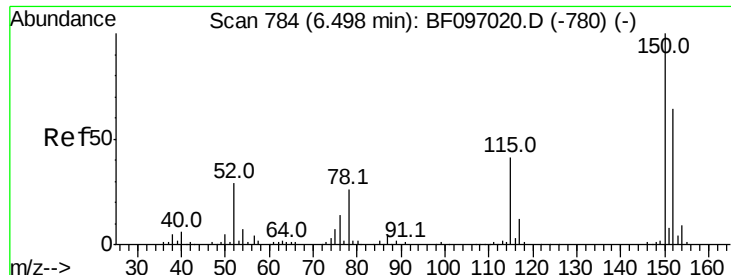
Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:46 PM

Quant Time: Aug 02 16:11:39 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 14:11:51 2017
Response via : Initial Calibration





#1

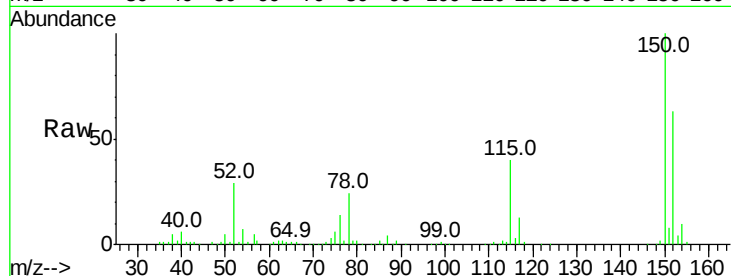
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.46 min Scan# 778
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	126.2	189.2
115	64.3	52.2	78.2

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:46 PM

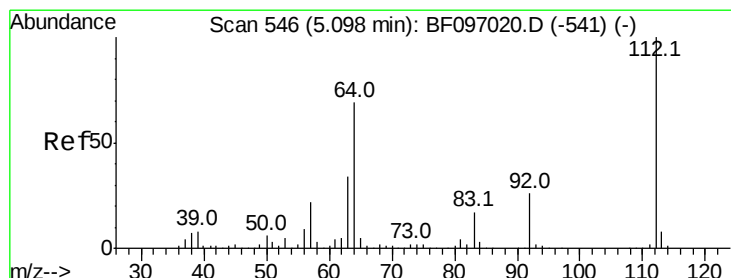
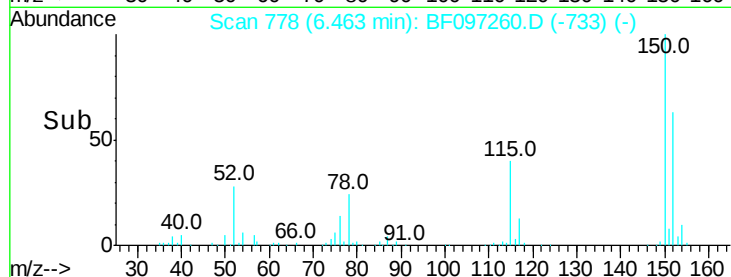
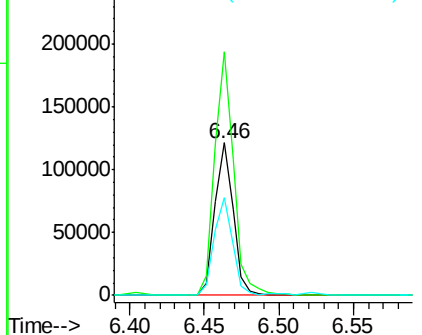


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

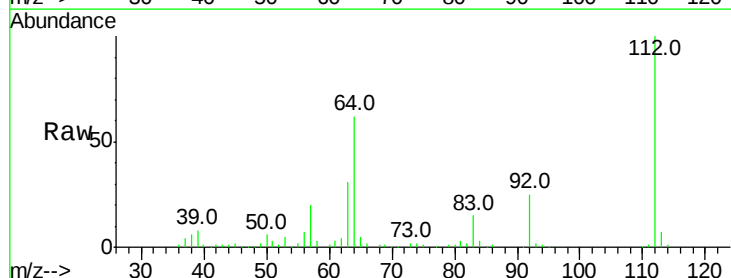
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 26.625 ng
RT: 5.07 min Scan# 541
Delta R.T. -0.03 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	46.0	69.0
63	31.2	23.4	35.0

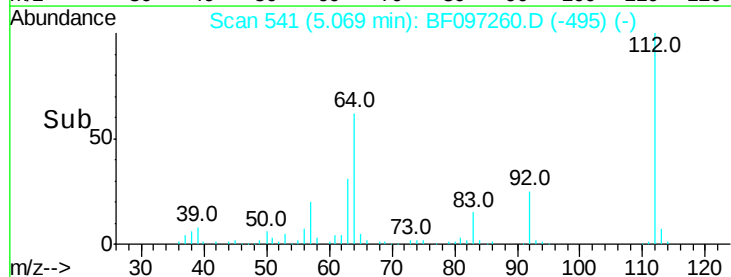
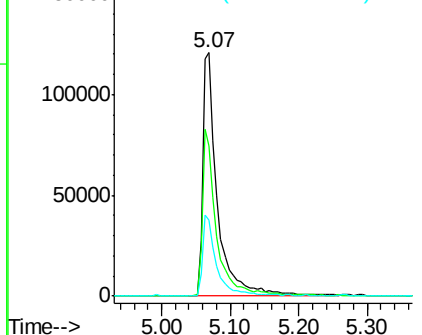


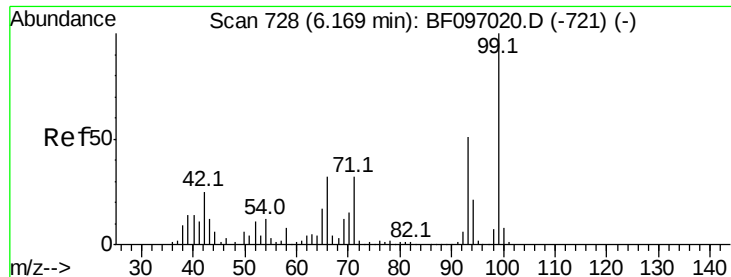
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 27.966 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Instrument :

BNA_F

ClientSampled :

E2-N8-BASE

Tot Ion: 99 Resp: 221830

Ion Ratio Lower Upper

99 100

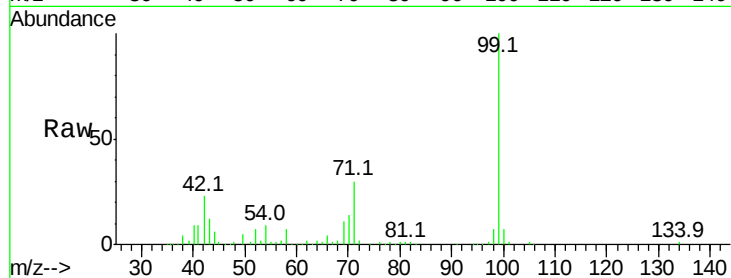
42 22.6 13.5 20.3#

71 30.0 24.5 36.7

Manual Integrations
APPROVED

Sohil

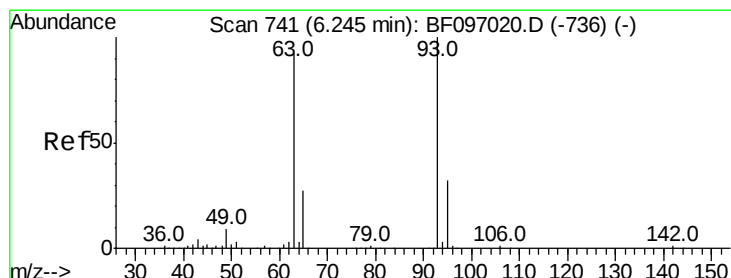
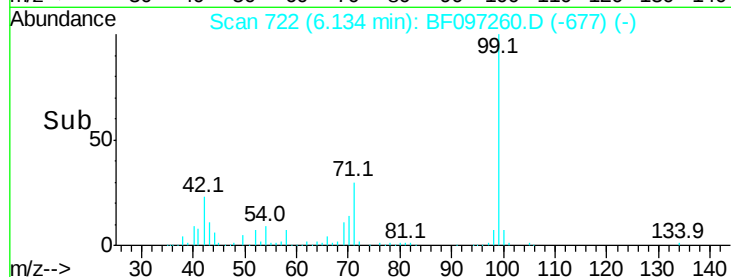
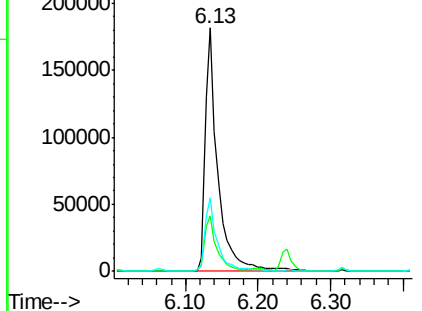
8/2/2017 7:15:46 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 7.704 ng

RT: 6.20 min Scan# 734

Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

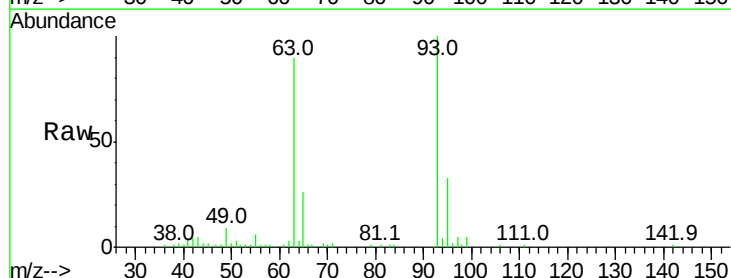
Tgt Ion: 93 Resp: 57330

Ion Ratio Lower Upper

93 100

63 90.2 59.2 99.2

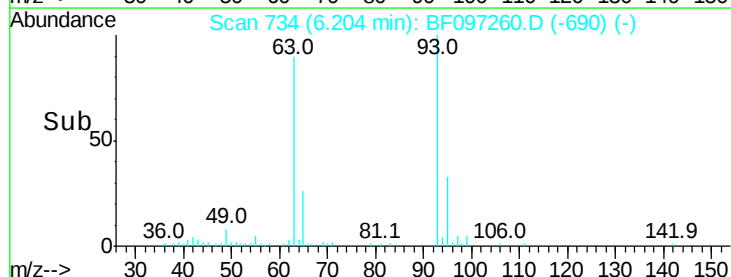
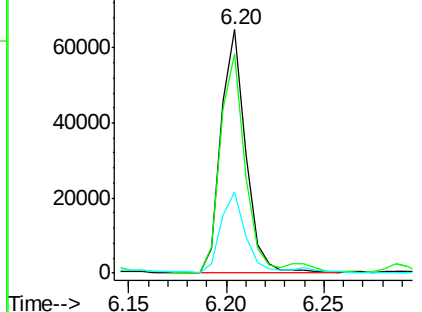
95 33.2 12.8 52.8

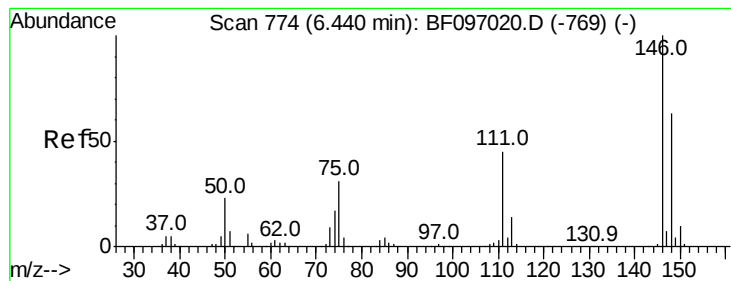


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0





#12

1,3-Dichlorobenzene

Concen: 2.078 ng

RT: 6.40 min Scan# 768

Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Instrument :

BNA_F

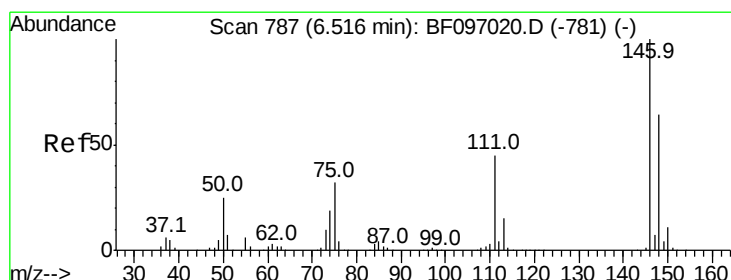
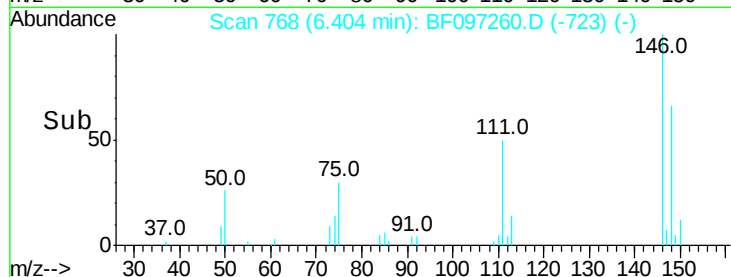
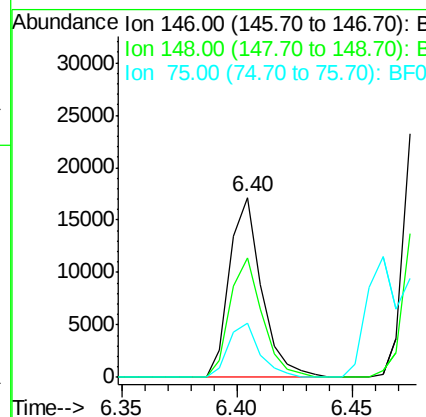
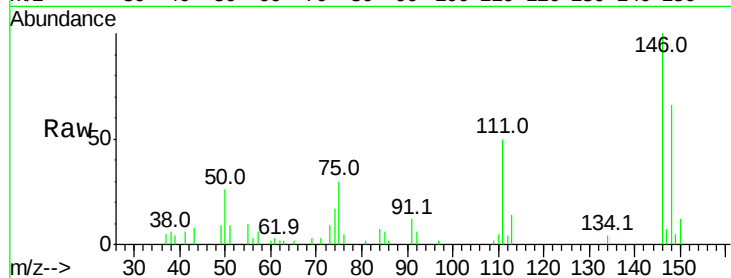
ClientSampleId :

E2-N8-BASE

Tot Ion:	146	Resp:	16639
Ion Ratio	Lower	Upper	
146	100		
148	66.3	51.8	77.6
75	30.2	23.1	34.7

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:46 PM



#13

1,4-Dichlorobenzene

Concen: 4.797 ng

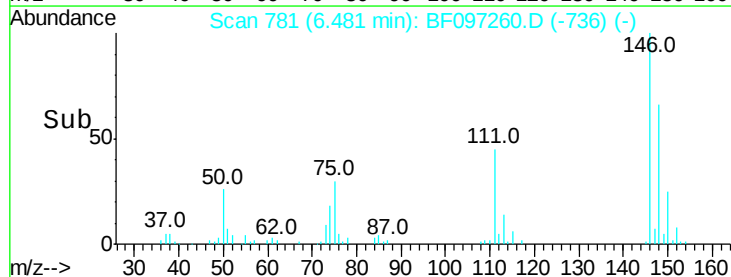
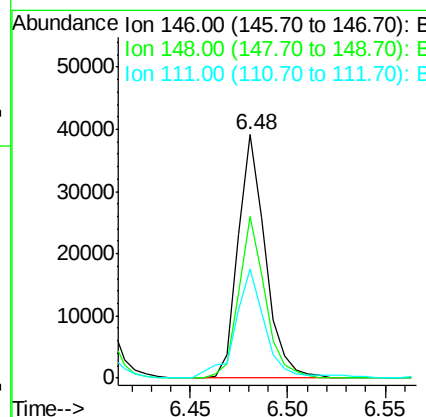
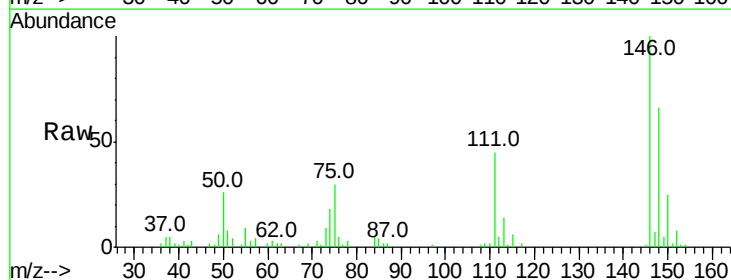
RT: 6.48 min Scan# 781

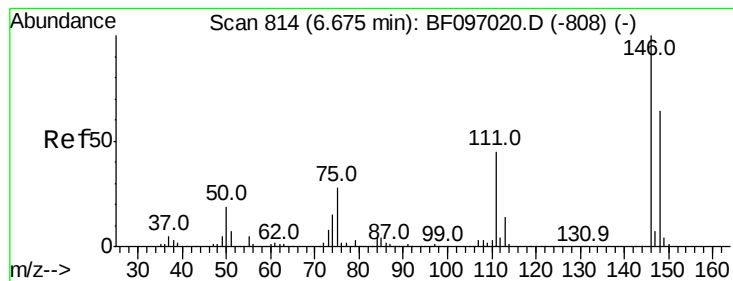
Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Tgt Ion:	146	Resp:	38061
Ion Ratio	Lower	Upper	
146	100		
148	66.2	52.2	78.2
111	45.1	30.3	45.5





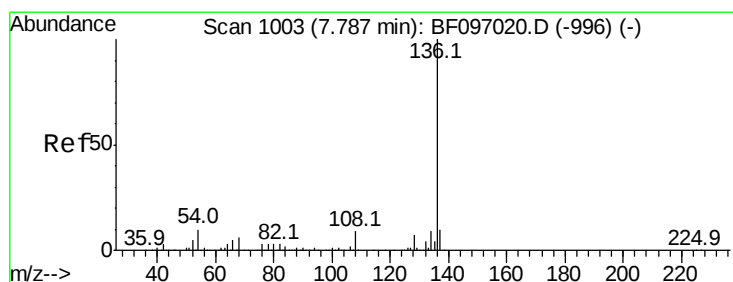
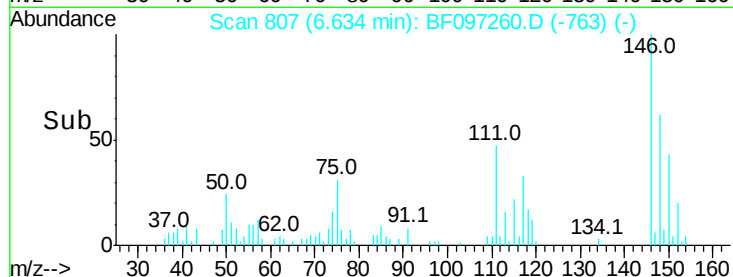
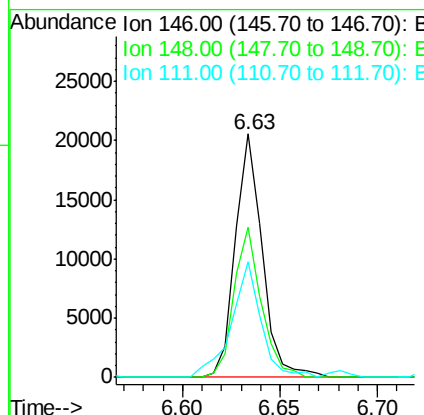
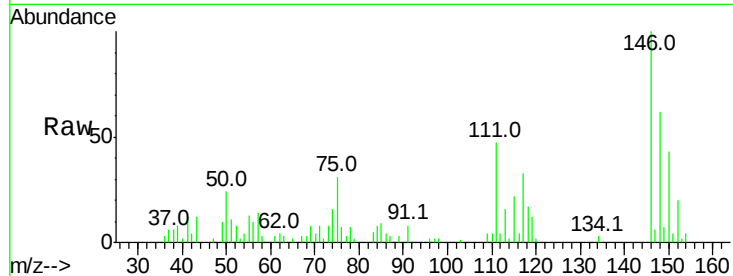
#14
 1,2-Dichlorobenzene
 Concen: 2.842 ng
 RT: 6.63 min Scan# 807
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Instrument :
 BNA_F
 ClientSampled :
 E2-N8-BASE

Tot Ion	Ratio	Lower	Upper
146	100		
148	61.5	50.4	75.6
111	47.3	38.2	57.4

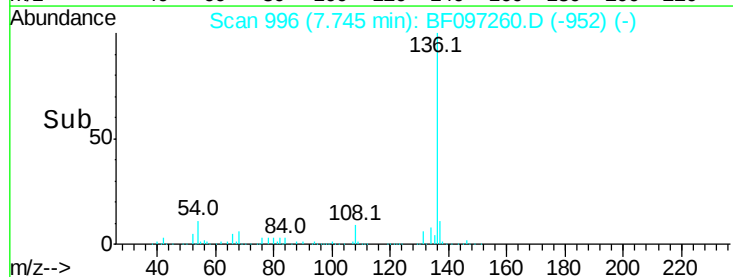
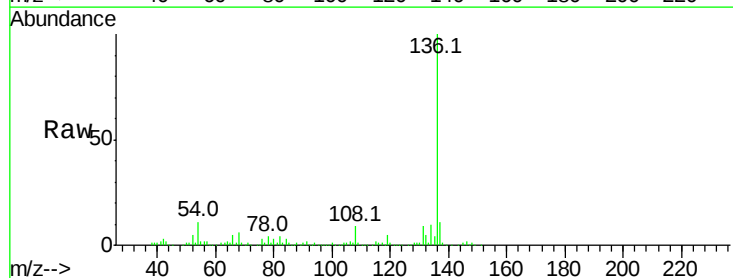
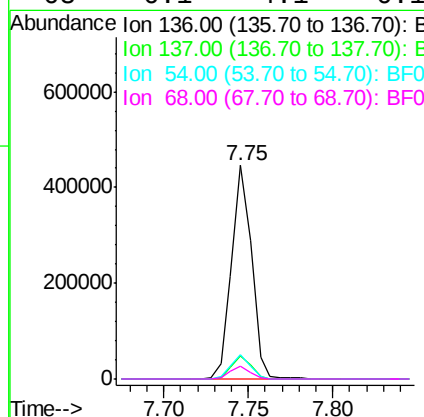
Manual Integrations
 APPROVED

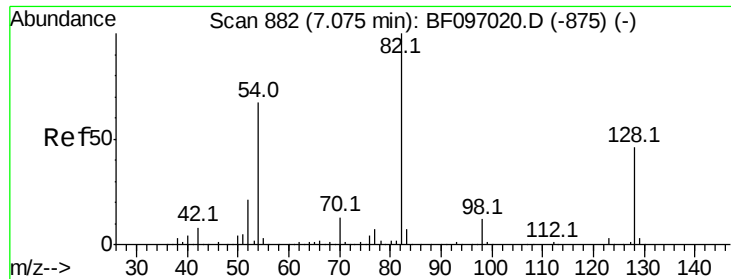
Sohil
 8/2/2017 7:15:46 PM



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 7.75 min Scan# 996
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	11.3	4.9	7.3#
68	6.1	4.1	6.1





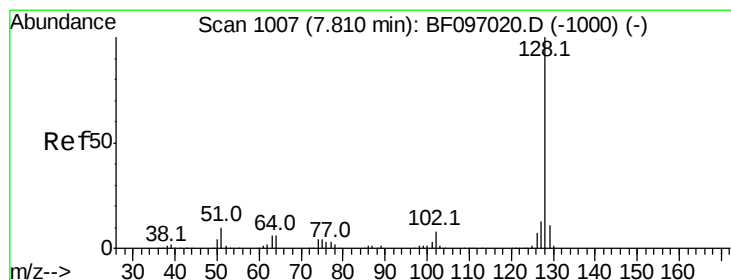
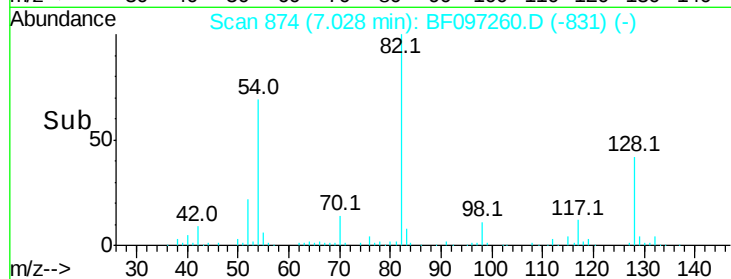
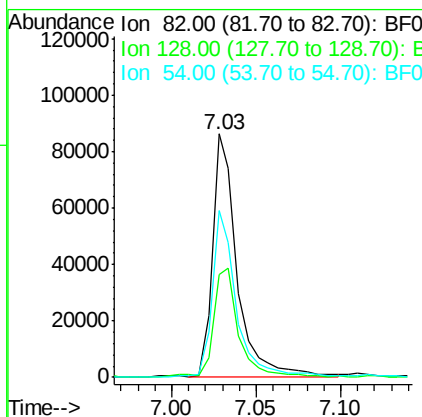
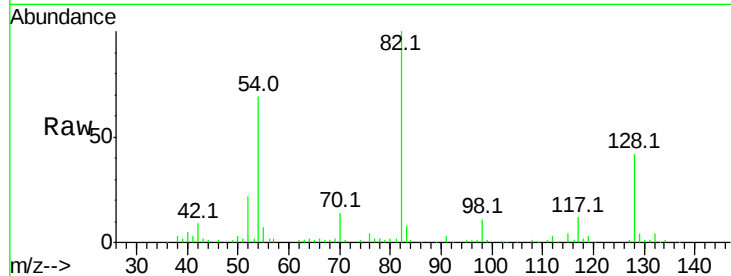
#23
Nitrobenzene-d5
Concen: 14.139 ng
RT: 7.03 min Scan# 874
Delta R.T. -0.05 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.5	34.0	51.0	
54	68.6	42.2	63.2	

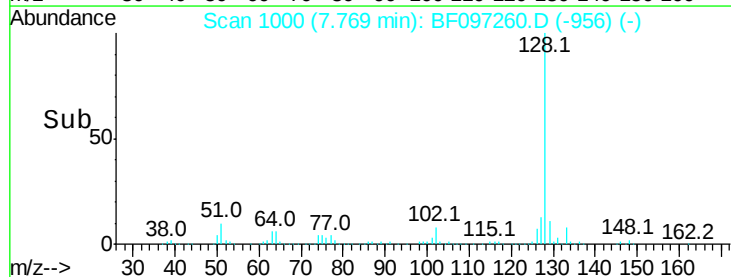
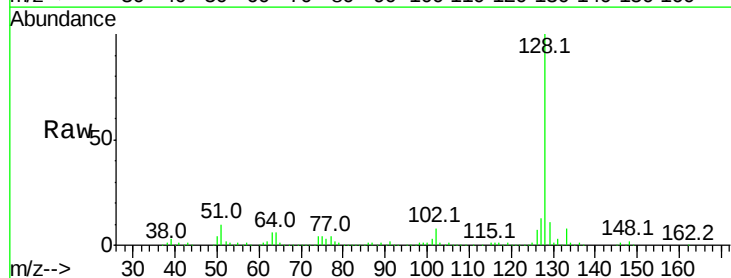
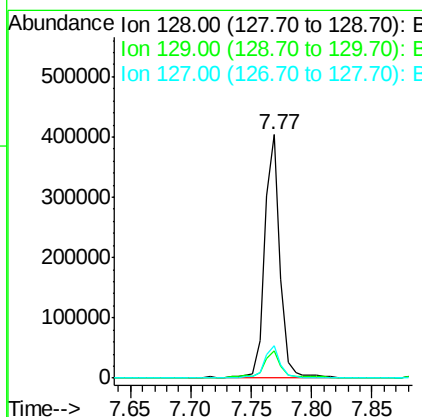
Manual Integrations
APPROVED

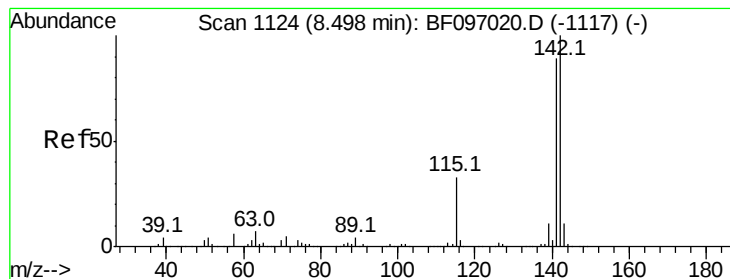
Sohil
8/2/2017 7:15:46 PM



#31
Naphthalene
Concen: 20.563 ng
RT: 7.77 min Scan# 1000
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.3	9.0	13.6	
127	13.5	10.8	16.2	





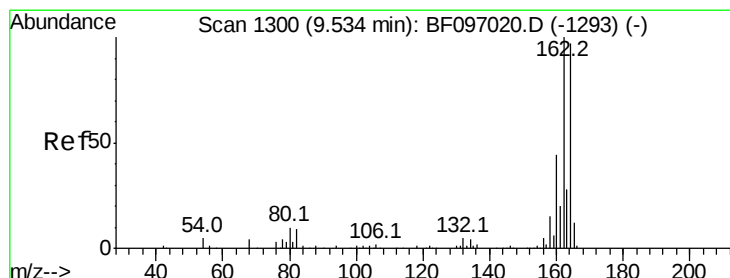
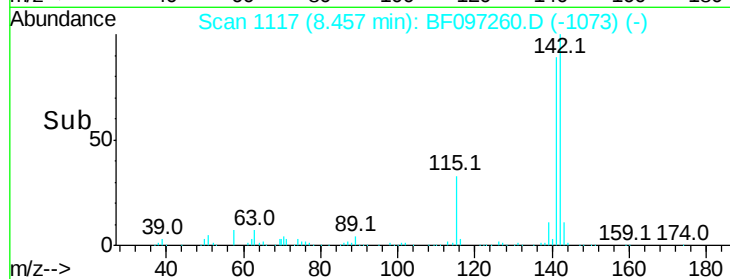
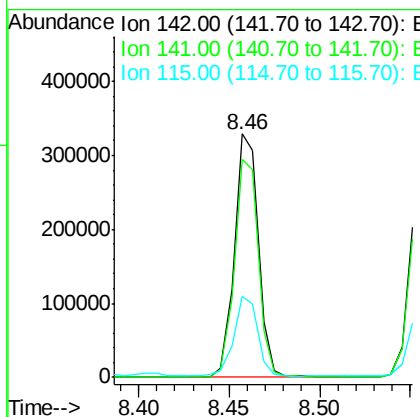
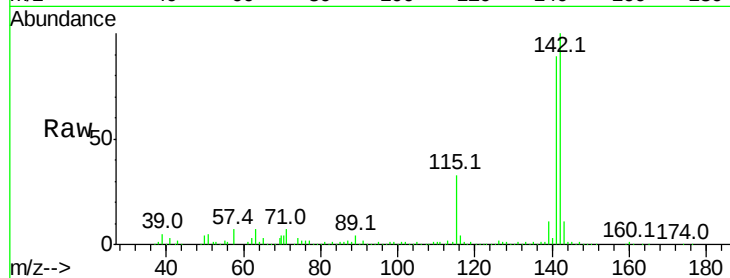
#37
2-Methylnaphthalene
Concen: 27.625 ng
RT: 8.46 min Scan# 1117
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Resp	Lower	Upper
142	100	303681		
141	89.5	71.3	106.9	
115	33.3	27.1	40.7	

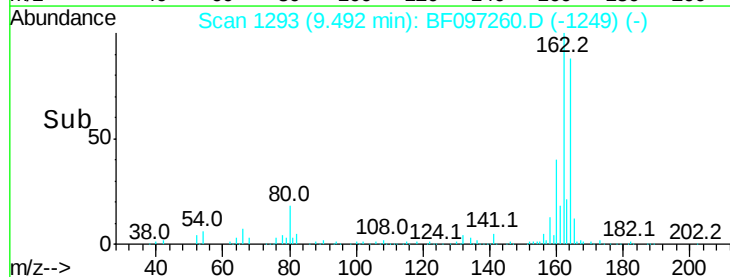
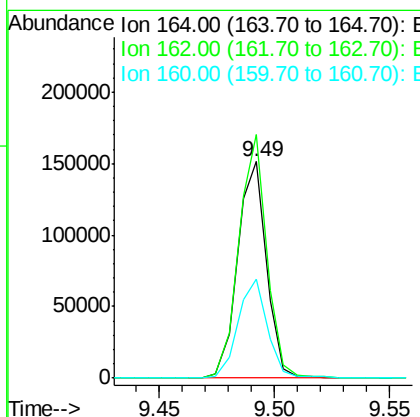
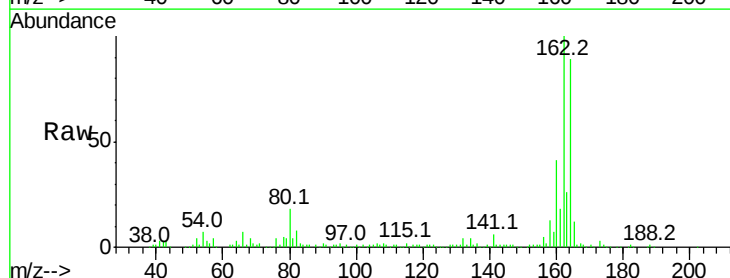
Manual Integrations
APPROVED

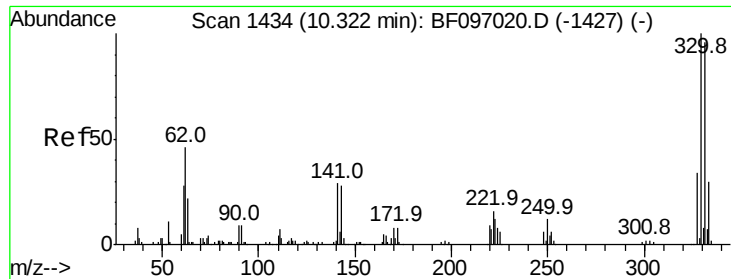
Sohil
8/2/2017 7:15:46 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.49 min Scan# 1293
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	131569		
162	112.5	82.6	123.8	
160	45.9	36.2	54.2	





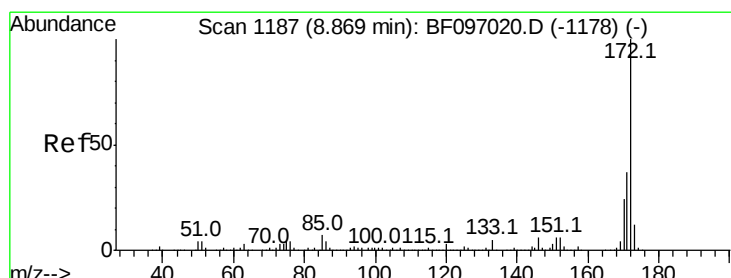
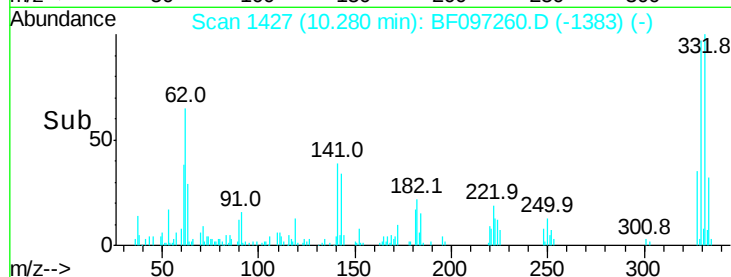
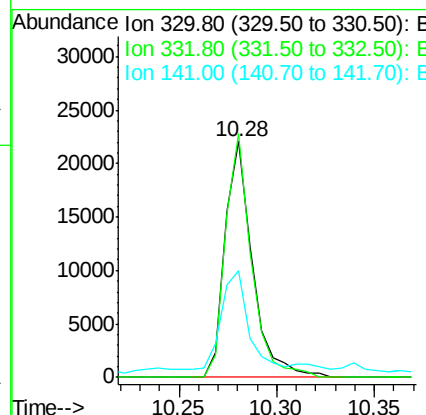
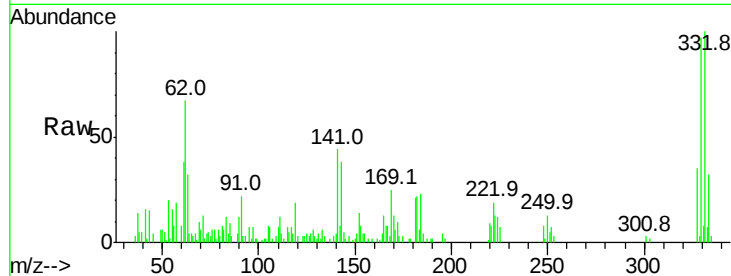
#41
 2,4,6-Tribromophenol
 Concen: 20.804 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Instrument :
 BNA_F
 ClientSampleId :
 E2-N8-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	21626		
332	97.5	76.6	115.0	
141	48.2	31.4	47.2#	

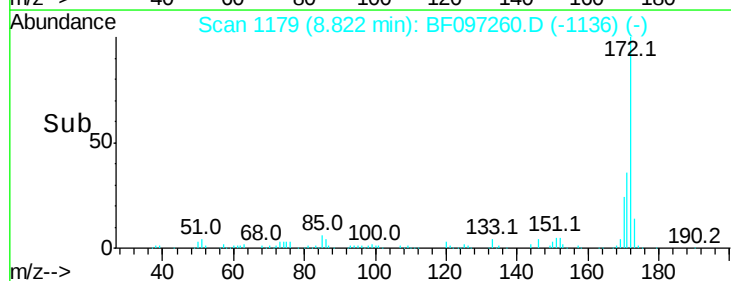
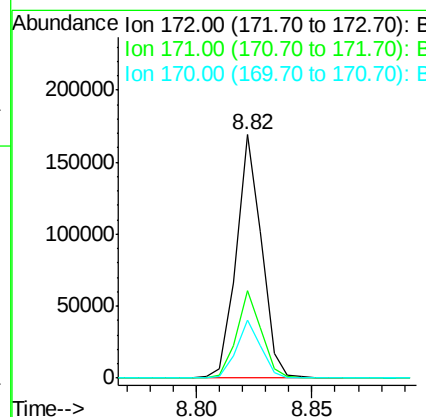
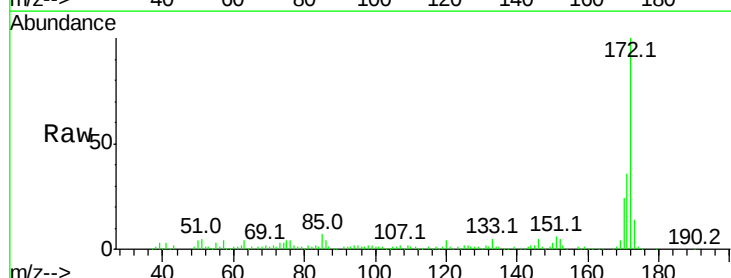
Manual Integrations
 APPROVED

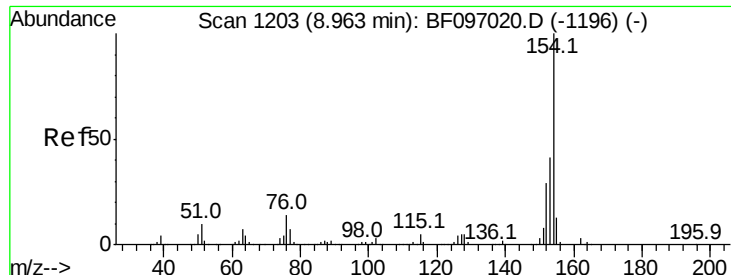
Sohil
 8/2/2017 7:15:46 PM



#44
 2-Fluorobiphenyl
 Concen: 16.683 ng
 RT: 8.82 min Scan# 1179
 Delta R.T. -0.05 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	129339		
171	35.7	29.6	44.4	
170	23.7	19.8	29.8	





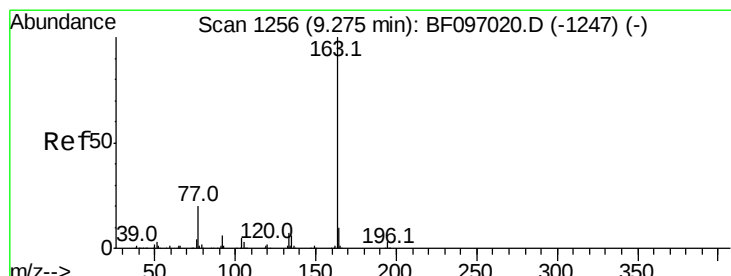
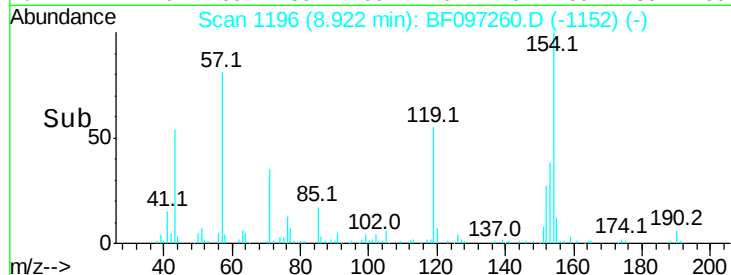
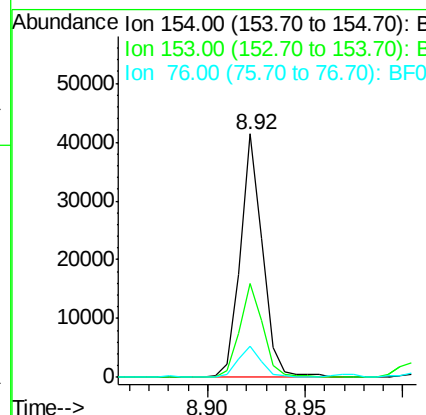
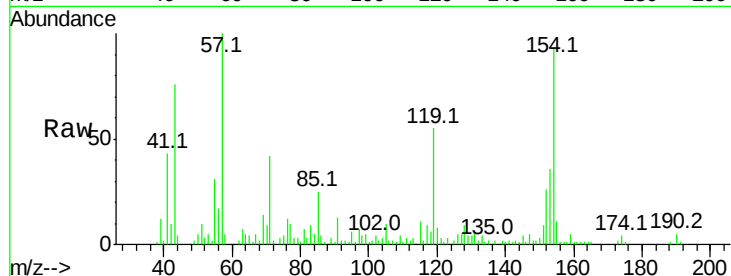
#45
 1,1'-Biphenyl
 Concen: 2.906 ng
 RT: 8.92 min Scan# 1196
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Instrument :
 BNA_F
 ClientSampled :
 E2-N8-BASE

Tot Ion	Ratio	Resp Lower	Upper
154	100		
153	38.4	21.2	61.2
76	12.9	0.0	29.9

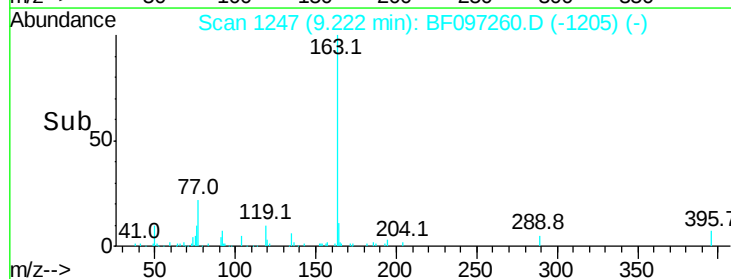
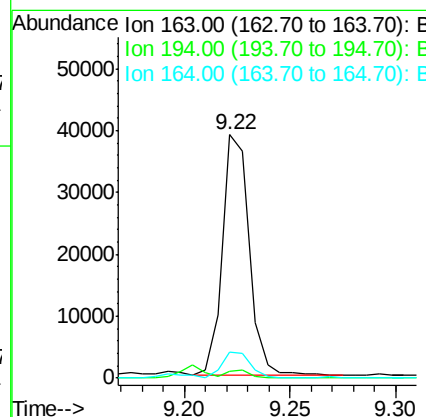
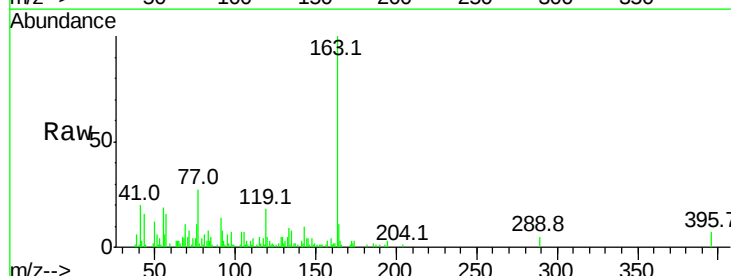
Manual Integrations
 APPROVED

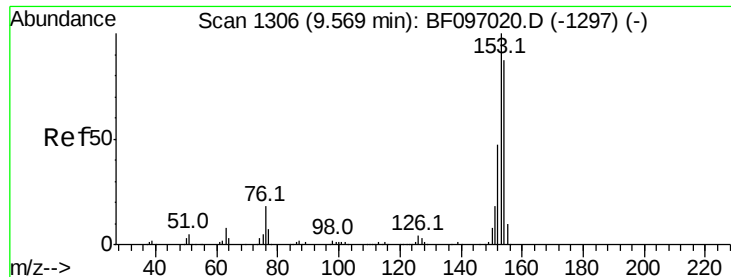
Sohil
 8/2/2017 7:15:46 PM



#49
 Dimethylphthalate
 Concen: 3.431 ng
 RT: 9.22 min Scan# 1247
 Delta R.T. -0.05 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.9	8.4	12.6





#51

Acenaphthene

Concen: 2.681 ng

RT: 9.52 min Scan# 1298

Delta R.T. -0.05 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Instrument :

BNA_F

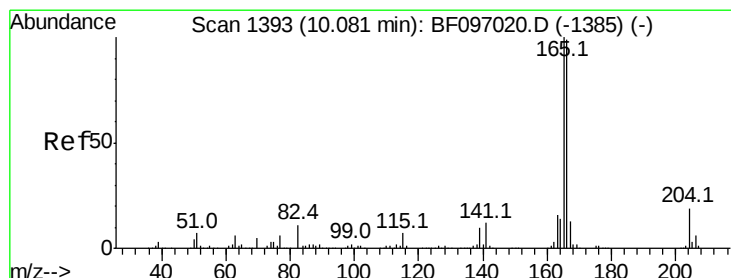
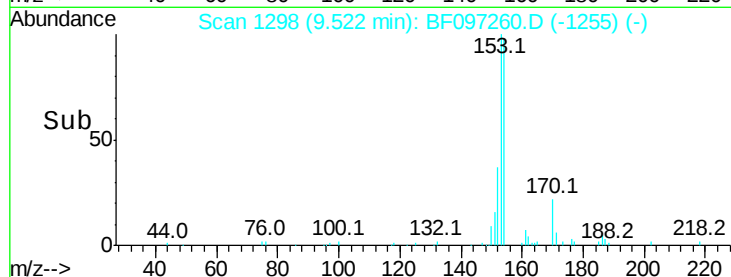
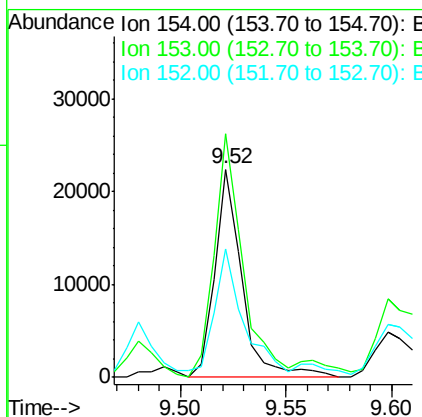
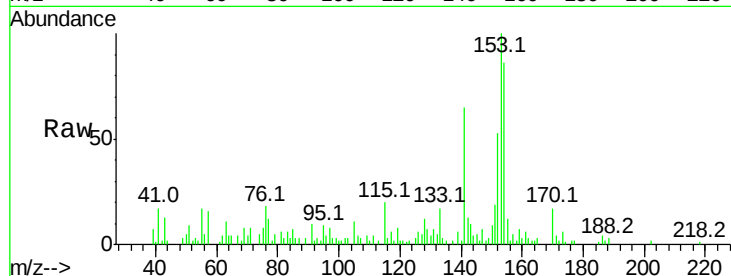
ClientSampleId :

E2-N8-BASE

Tot Ion:	154	Resp:	20042
Ion Ratio	Lower	Upper	
154	100		
153	117.0	90.5	135.7
152	61.8	43.6	65.4

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:46 PM



#57

Fluorene

Concen: 3.268 ng

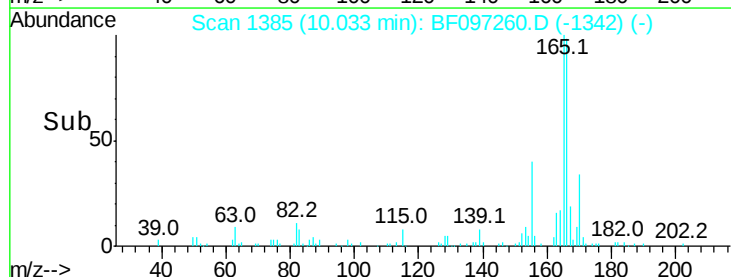
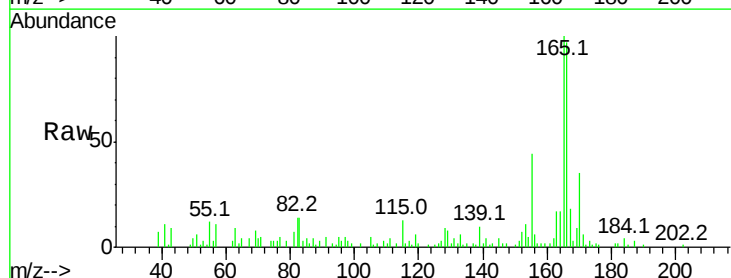
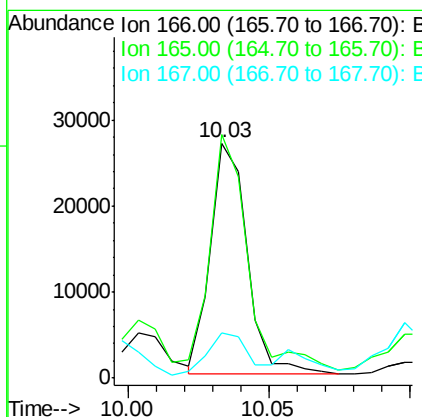
RT: 10.03 min Scan# 1385

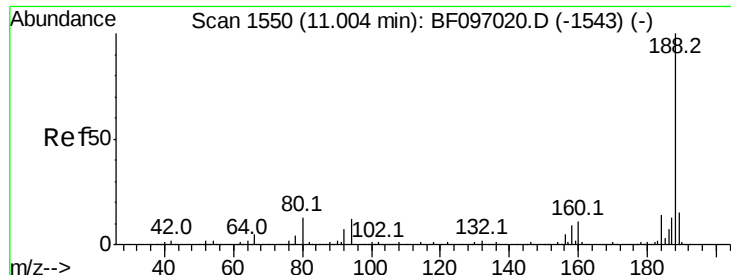
Delta R.T. -0.05 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Tgt Ion:	166	Resp:	24461
Ion Ratio	Lower	Upper	
166	100		
165	103.6	78.8	118.2
167	19.1	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.96 min Scan# 1543

Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Instrument :

BNA_F

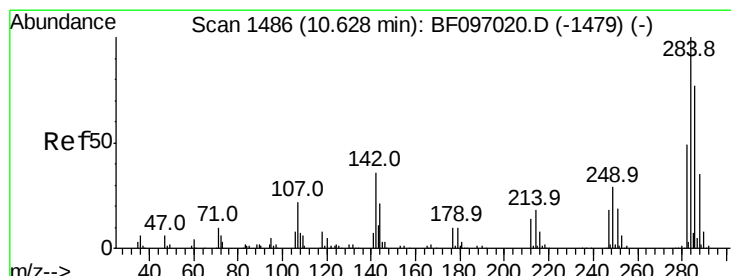
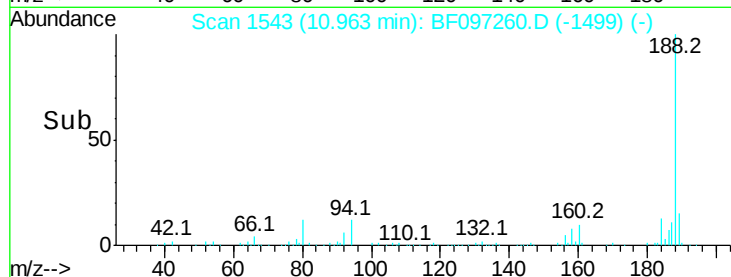
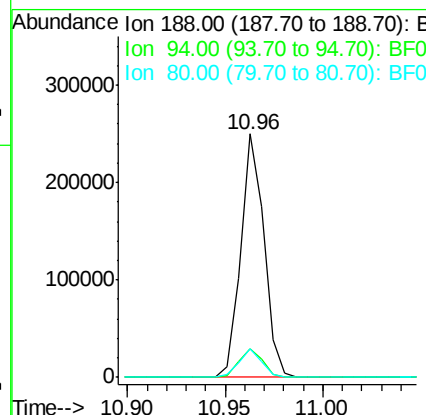
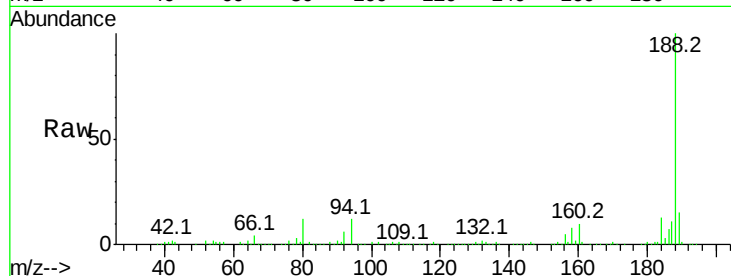
ClientSampleId :

E2-N8-BASE

Tot Ion:	188	Resp:	205938
Ion Ratio	Lower	Upper	
188	100		
94	11.5	9.4	14.2
80	11.9	10.2	15.2

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:46 PM



#67

Hexachlorobenzene

Concen: 5.862 ng

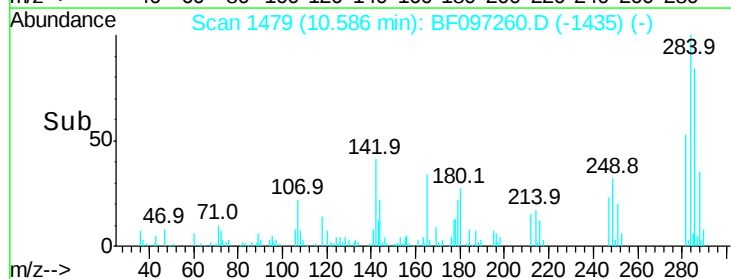
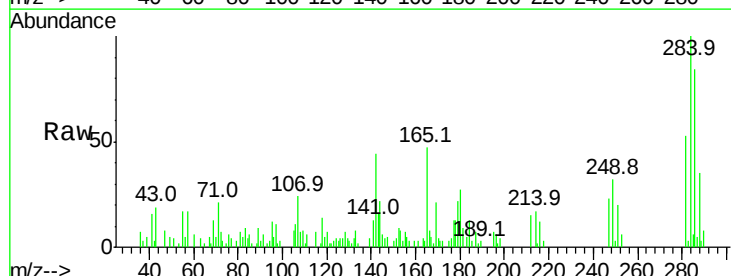
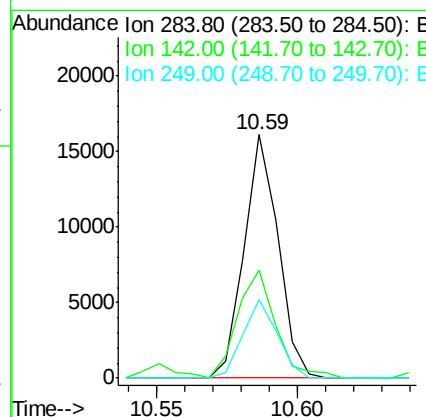
RT: 10.59 min Scan# 1479

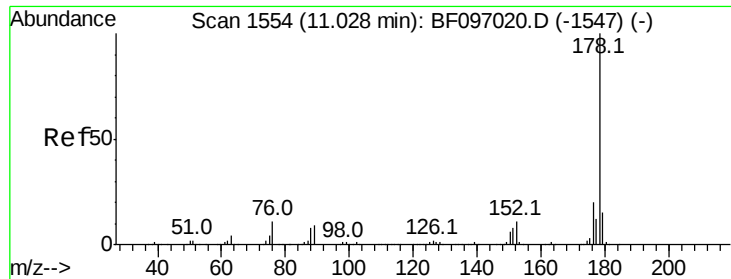
Delta R.T. -0.04 min

Lab File: BF097260.D

Acq: 2 Aug 2017 7:55

Tgt Ion:	284	Resp:	13510
Ion Ratio	Lower	Upper	
284	100		
142	44.1	22.8	34.2#
249	32.0	24.0	36.0





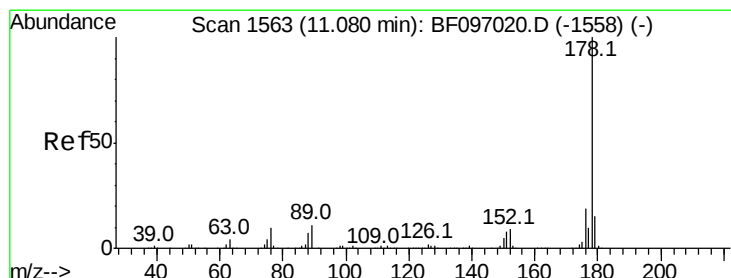
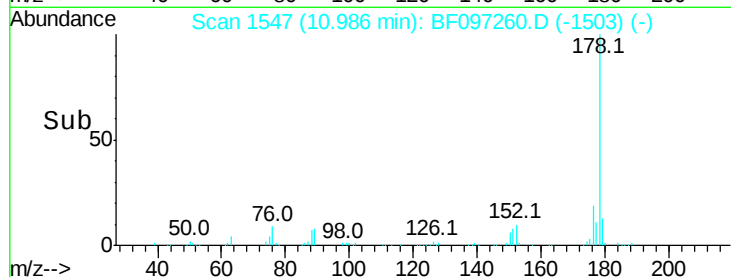
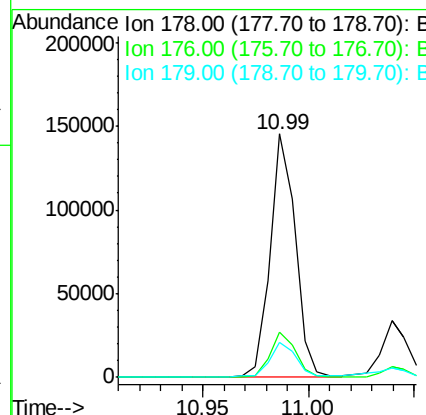
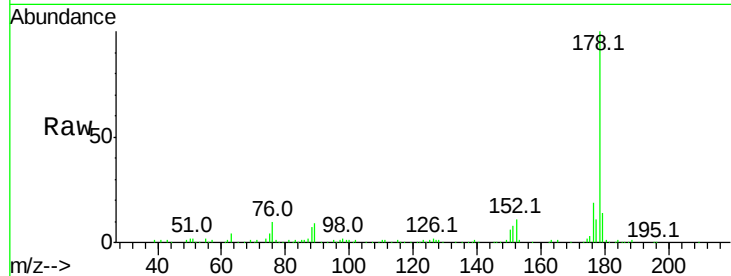
#70
Phenanthrene
Concen: 11.046 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.2	24.4
179	14.3	12.6	19.0

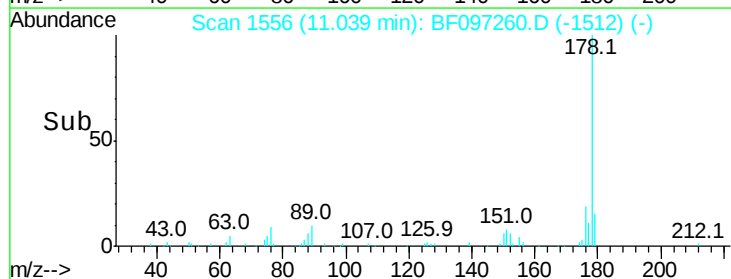
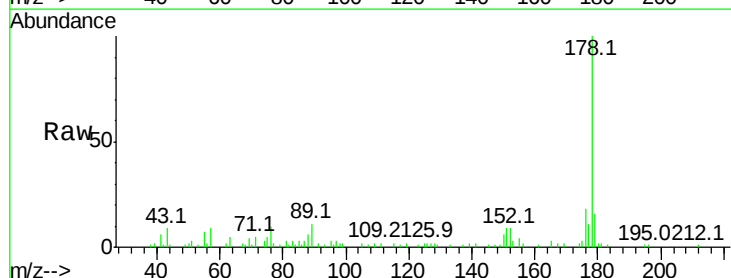
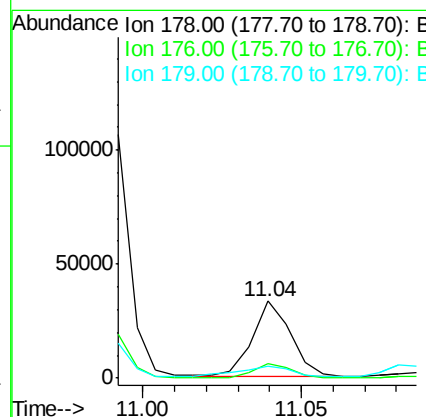
Manual Integrations
APPROVED

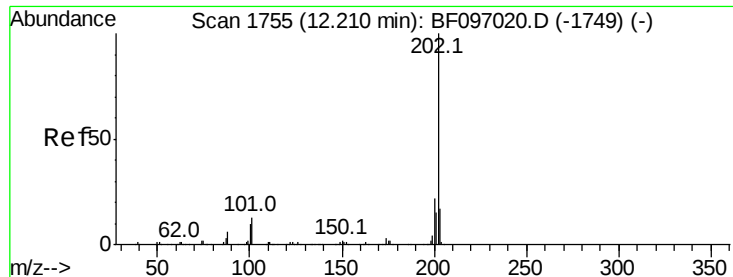
Sohil
8/2/2017 7:15:46 PM



#71
Anthracene
Concen: 2.485 ng
RT: 11.04 min Scan# 1556
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.8	12.7	19.1





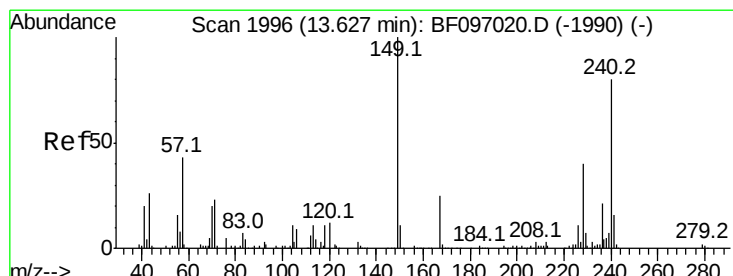
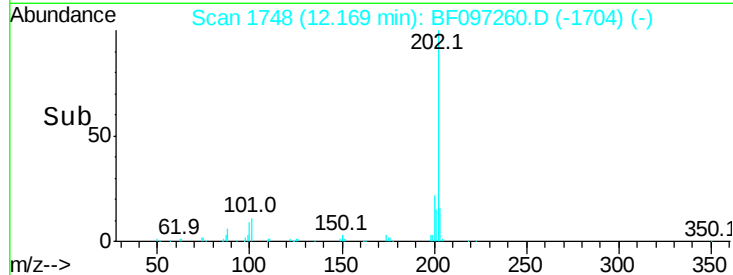
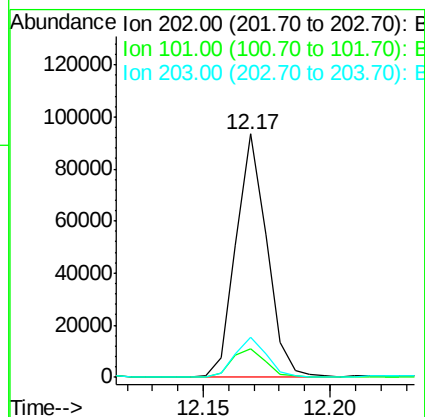
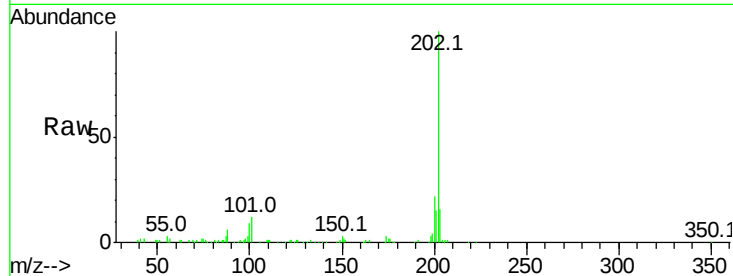
#74
Fluoranthene
 Concen: 7.335 ng
 RT: 12.17 min Scan# 1748
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Instrument :
 BNA_F
 ClientSampleId :
 E2-N8-BASE

Tot Ion:	202	Resp:	79286
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	33.2
203	16.4	0.0	38.1

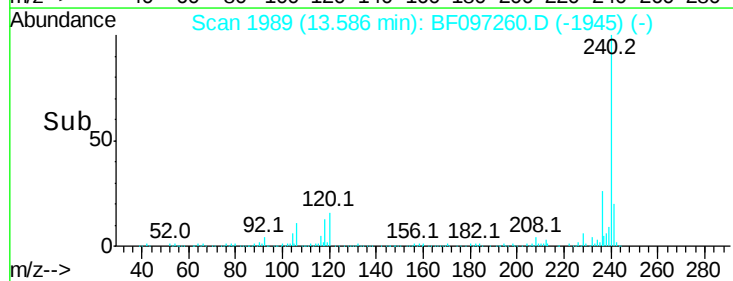
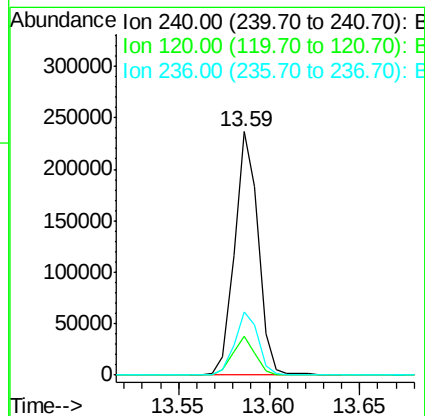
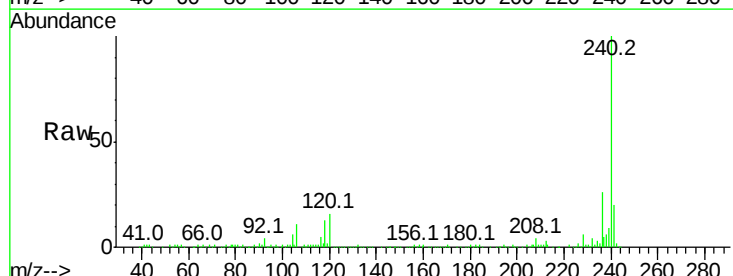
Manual Integrations
 APPROVED

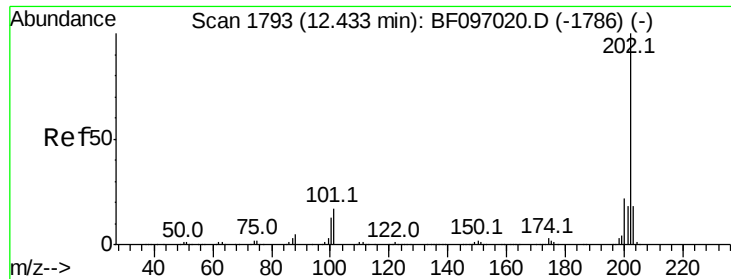
Sohil
 8/2/2017 7:15:46 PM



#75
Chrysene-d12
 Concen: 20.000 ng
 RT: 13.59 min Scan# 1989
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Tgt Ion:	240	Resp:	213902
Ion Ratio	Lower	Upper	
240	100		
120	15.9	5.8	8.8#
236	26.2	20.5	30.7





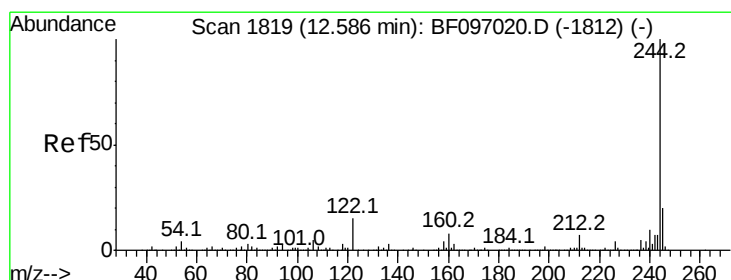
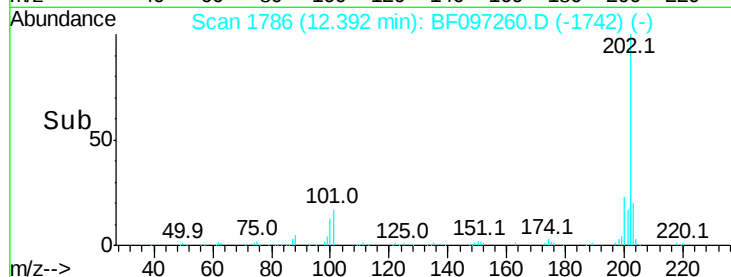
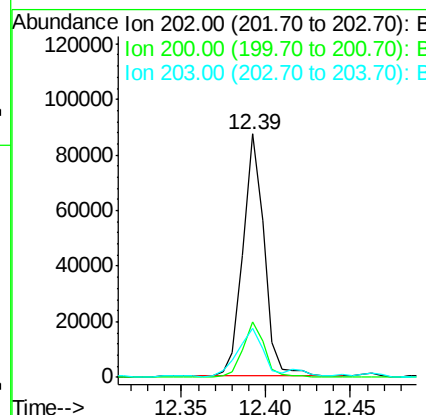
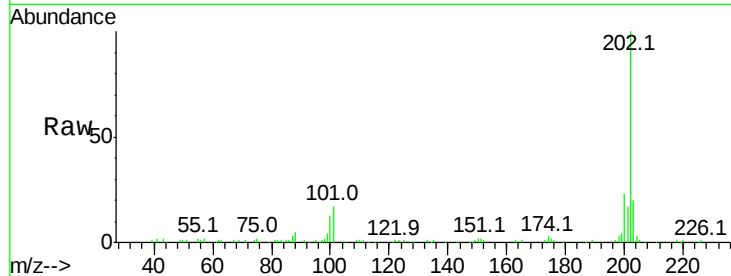
#77
Pvrene
Concen: 4.362 ng
RT: 12.39 min Scan# 1786
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.6	17.6	26.4
203	20.4	14.4	21.6

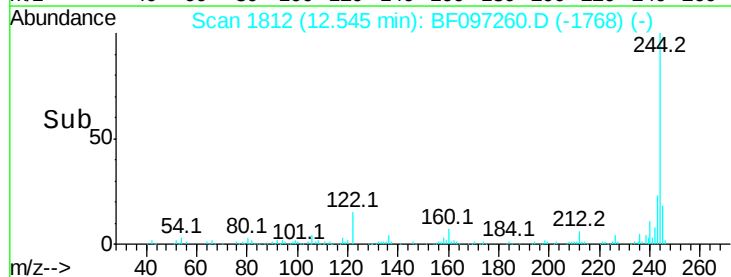
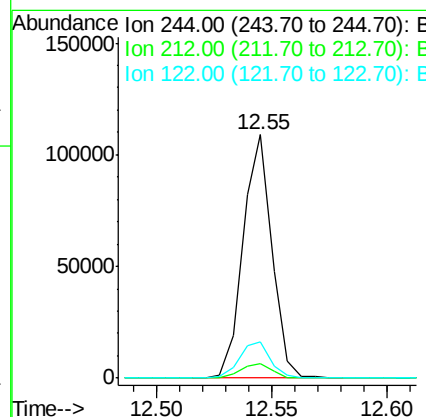
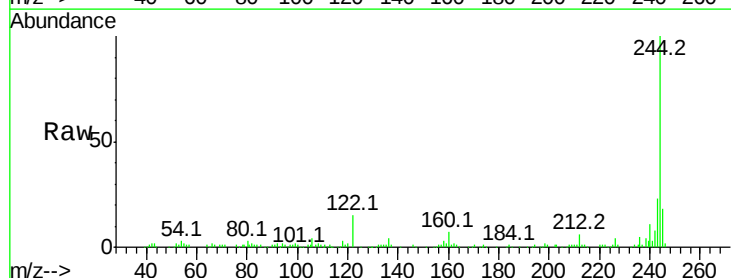
Manual Integrations
APPROVED

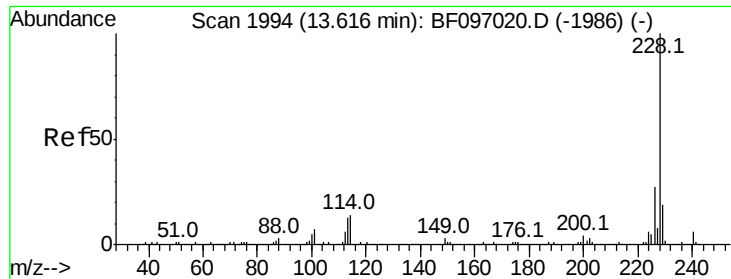
Sohil
8/2/2017 7:15:46 PM



#78
Terphenyl-d14
Concen: 9.009 ng
RT: 12.55 min Scan# 1812
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.2	6.0	9.0
122	14.7	10.3	15.5





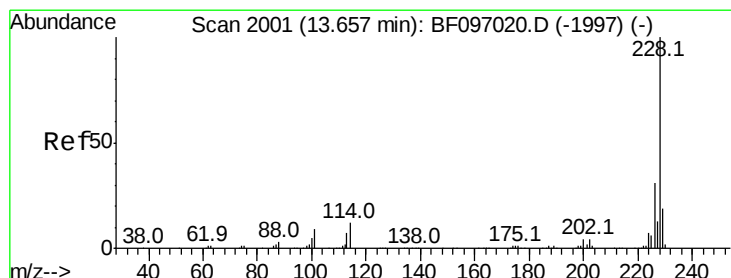
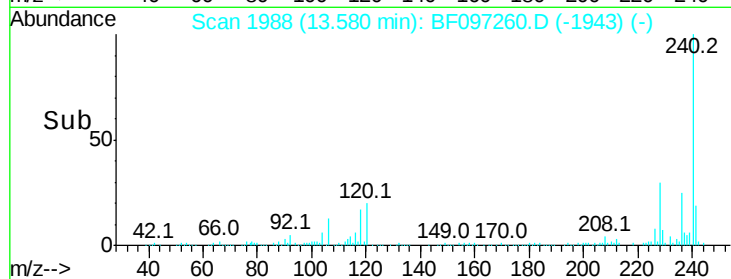
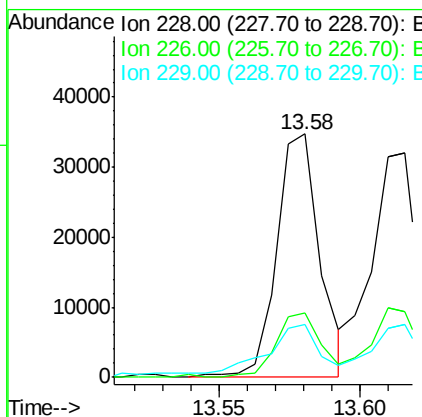
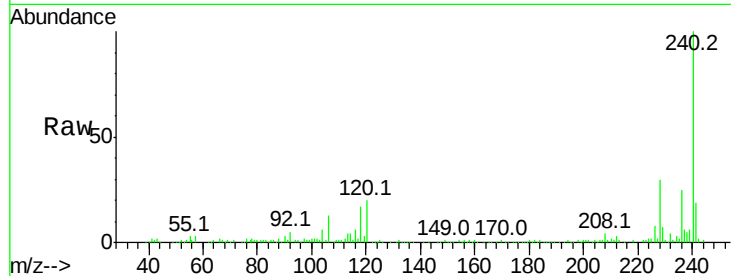
#80
Benzo(a)anthracene
Concen: 2.655 ng
RT: 13.58 min Scan# 1988
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Resp	Lower	Upper
228	100	36750		
226	26.5		22.6	33.8
229	21.9		16.3	24.5

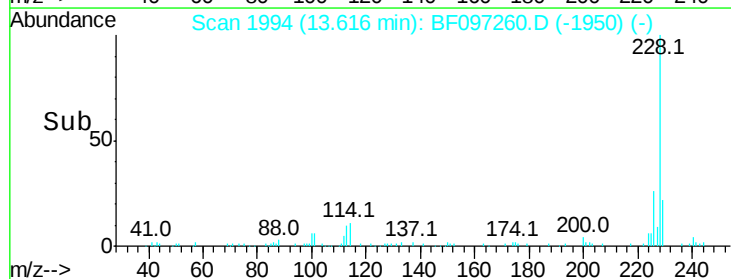
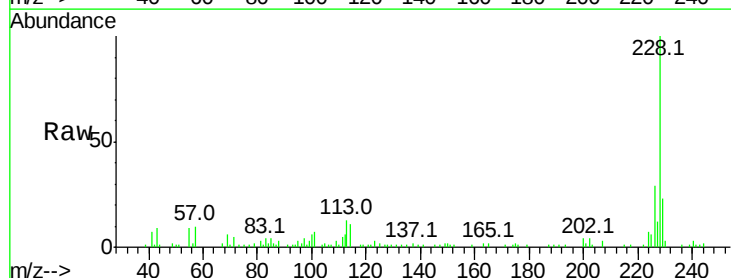
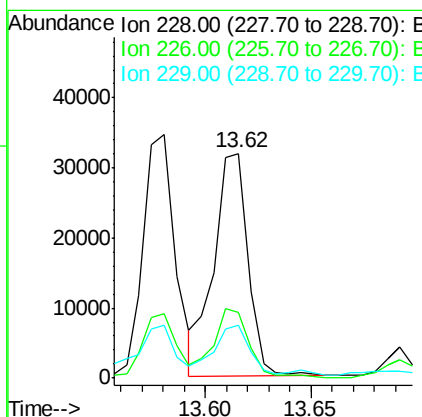
Manual Integrations
APPROVED

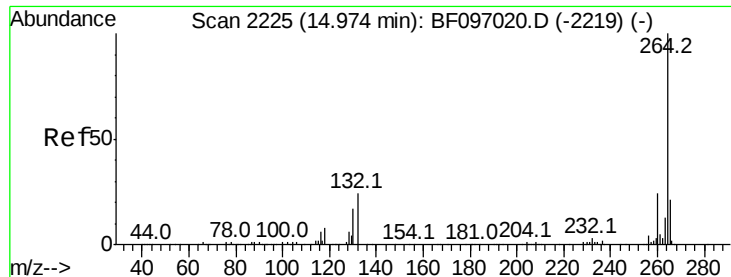
Sohil
8/2/2017 7:15:46 PM



#82
Chrysene
Concen: 2.679 ng
RT: 13.62 min Scan# 1994
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	36204		
226	28.9		24.9	37.3
229	23.3		15.8	23.6





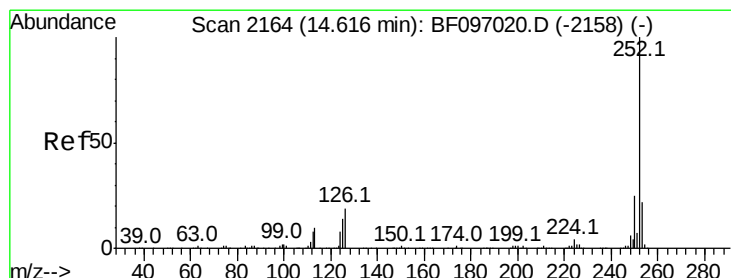
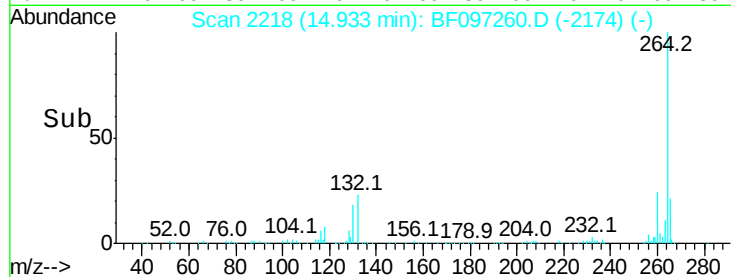
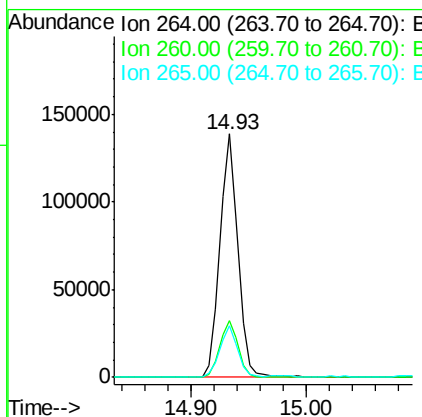
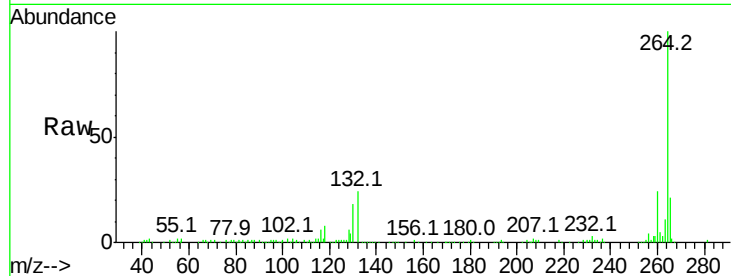
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.93 min Scan# 2218
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Instrument :
BNA_F
ClientSampleId :
E2-N8-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.0	17.2	25.8

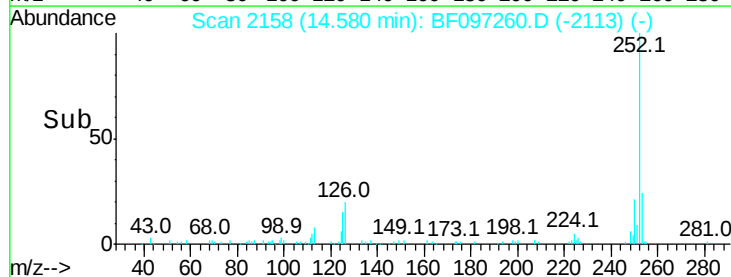
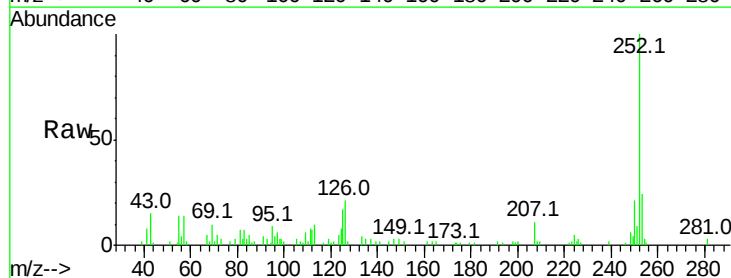
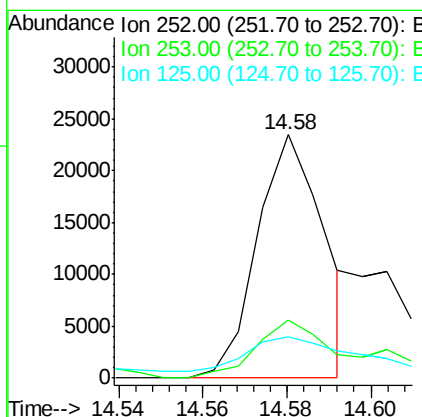
Manual Integrations
APPROVED

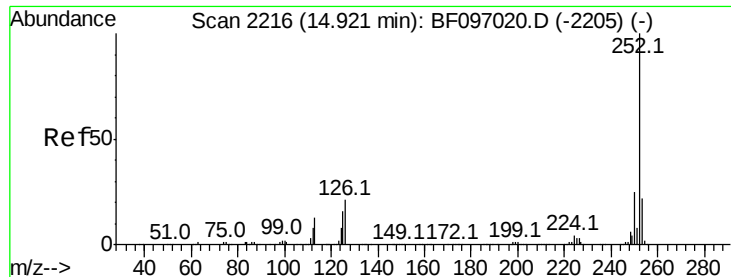
Sohil
8/2/2017 7:15:46 PM



#87
Benzo(b)fluoranthene
Concen: 2.849 ng m
RT: 14.58 min Scan# 2158
Delta R.T. -0.04 min
Lab File: BF097260.D
Acq: 2 Aug 2017 7:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	17.1	9.8	14.8#





#89
 Benzo(a)pyrene
 Concen: 2.288 ng
 RT: 14.89 min Scan# 2210
 Delta R.T. -0.04 min
 Lab File: BF097260.D
 Acq: 2 Aug 2017 7:55

Instrument :
 BNA_F
 ClientSampleId :
 E2-N8-BASE

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.8	17.5	26.3
125	17.3	11.0	16.4

Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:46 PM

