

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032019\
 Data File : BF113166.D
 Acq On : 20 Mar 2019 12:50
 Operator : JU/SJ
 Sample : K1971-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(1-2)-031519

Manual Integrations
 APPROVED

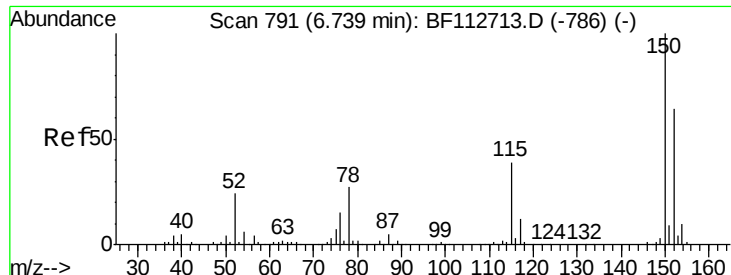
Sohil
 3/21/2019 6:36:13 PM

Quant Time: Mar 21 13:28:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 21 12:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	117881	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	493690	20.00	ng	0.00
39) Acenaphthene-d10	9.75	164	208008	20.00	ng	0.00
64) Phenanthrene-d10	11.23	188	435613	20.00	ng	0.00
76) Chrysene-d12	13.87	240	317045	20.00	ng	0.00
87) Perylene-d12	15.27	264	339796	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	912189	120.37	ng	0.00
7) Phenol-d6	6.37	99	1110428	116.65	ng	0.00
23) Nitrobenzene-d5	7.28	82	731700	88.69	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	341573	154.68	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	1284187	111.20	ng	0.00
79) Terphenyl-d14	12.82	244	1158159	70.81	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.02	128	66831	2.727	ng	96
38) 1-Methylnaphthalene	8.81	142	36952	2.410	ng	99
50) Dimethylphthalate	9.47	163	120336	7.846	ng	98
52) Acenaphthene	9.78	154	116402	8.850	ng	98
55) Dibenzofuran	9.96	168	106869	5.591	ng	95
58) Fluorene	10.30	166	121306	8.941	ng	100
71) Phenanthrene	11.26	178	1637786	75.566	ng	100
72) Anthracene	11.31	178	422383	18.617	ng	99
73) Carbazole	11.46	167	173423	7.836	ng	98
75) Fluoranthene	12.45	202	1815206	78.172	ng	98
78) Pyrene	12.67	202	1586081	59.342	ng	99
81) Benzo(a)anthracene	13.86	228	778046	35.409	ng	98
83) Chrysene	13.89	228	635951	29.547	ng	97
86) Indeno(1,2,3-cd)pyrene	16.64	276	365815	19.936	ng	95
88) Benzo(b)fluoranthene	14.88	252	816796m	37.163	ng	
89) Benzo(k)fluoranthene	14.90	252	180614m	9.072	ng	
90) Benzo(a)pyrene	15.22	252	572134	29.430	ng	98
91) Dibenzo(a,h)anthracene	16.64	278	107221	6.463	ng	# 91
92) Benzo(g,h,i)perylene	17.04	276	342659	20.571	ng	99

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

```
Data Path : Z:\SV0ASRV\HPCHEM1\BNA_F\DATA\BF032019\  
Data File : BF113166.D  
Acq On    : 20 Mar 2019  12:50  
Operator  : JU/SJ  
Sample    : K1971-05  
Misc      :  
ALS Vial  : 5      Sample Multiplier: 1
```



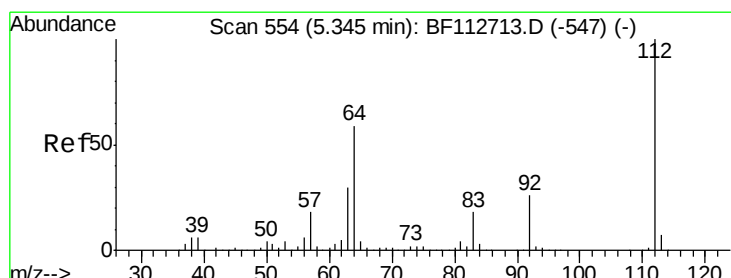
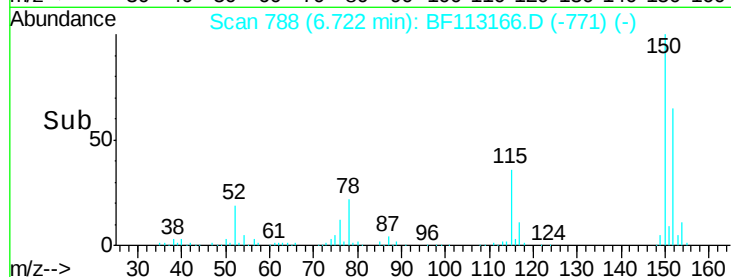
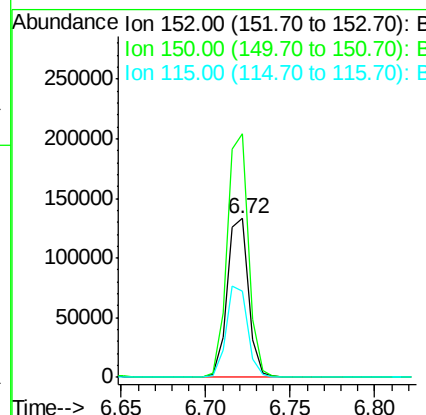
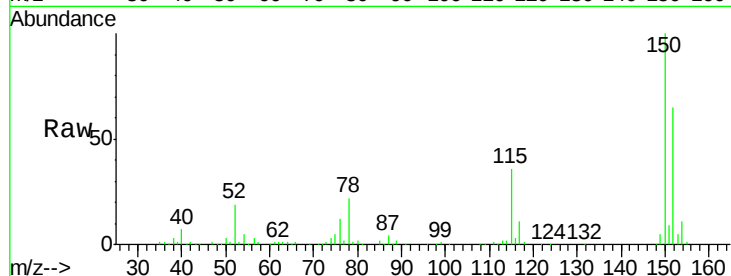
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(1-2)-031519

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	117881		
150	153.2	123.0	184.6	
115	54.5	45.9	68.9	

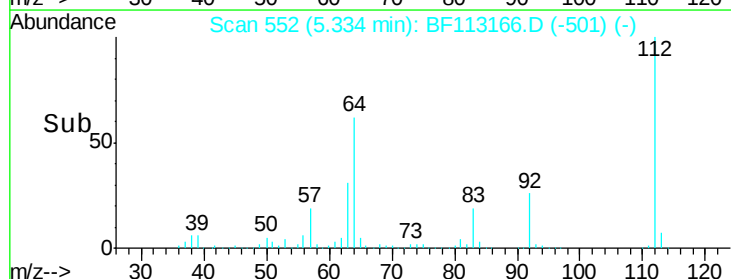
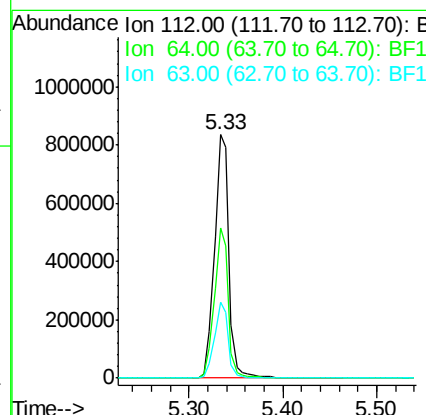
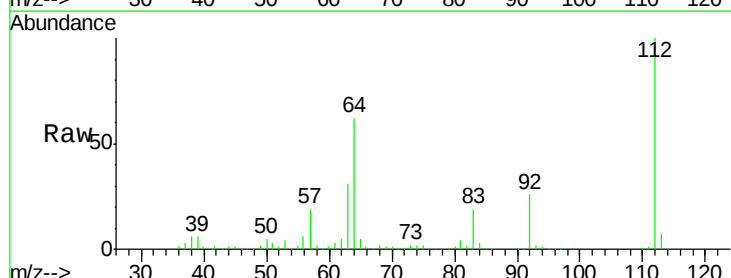
Manual Integrations
 APPROVED

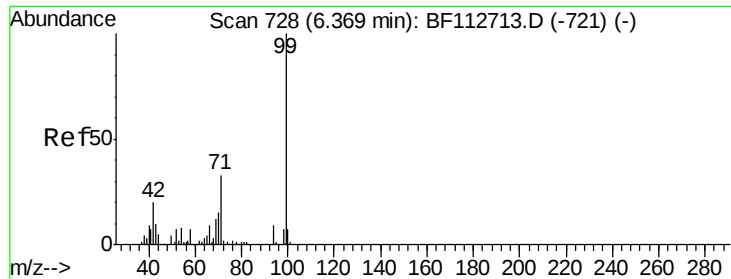
Sohil
 3/21/2019 6:36:13 PM



#5
 2-Fluorophenol
 Concen: 120.371 ng
 RT: 5.33 min Scan# 552
 Delta R.T. -0.00 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	912189		
64	61.5	49.3	73.9	
63	31.2	25.4	38.2	





#7

Phenol-d6

Concen: 116.649 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

ClientSampleId :

SB-10(1-2)-031519

Tgt Ion: 99 Resp: 1110428

Ion Ratio Lower Upper

99 100

42 18.9 15.2 22.8

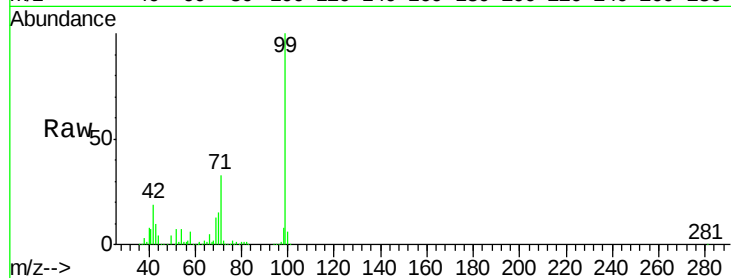
71 32.7 25.7 38.5

Manual Integrations

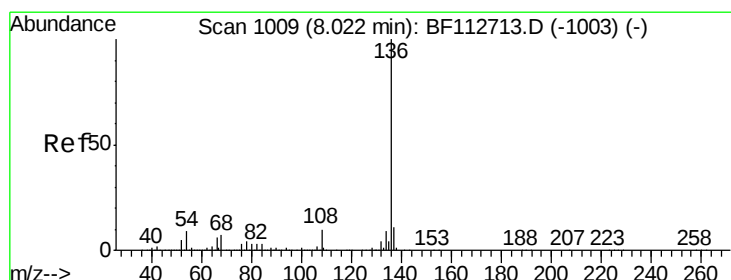
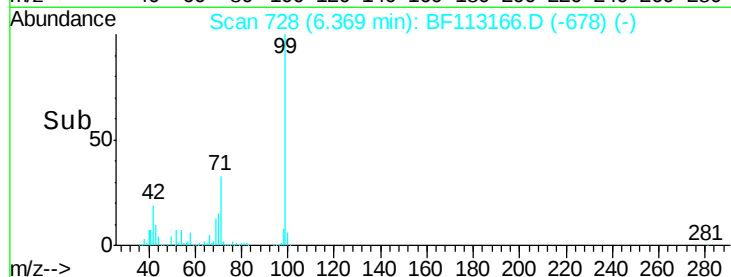
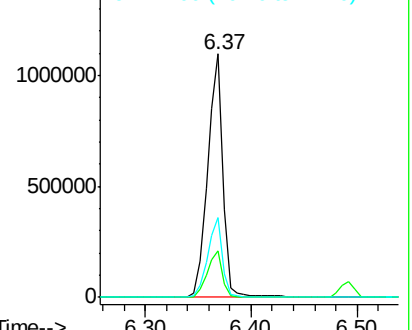
APPROVED

Sohil

3/21/2019 6:36:13 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Tgt Ion: 136 Resp: 493690

Ion Ratio Lower Upper

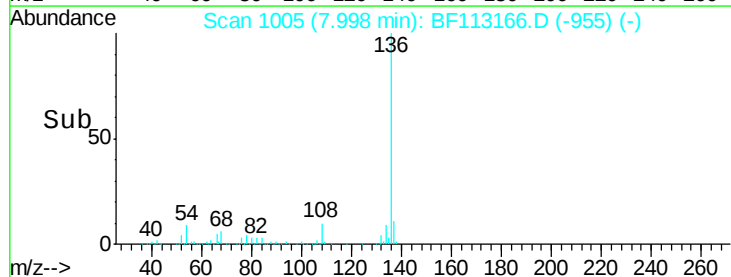
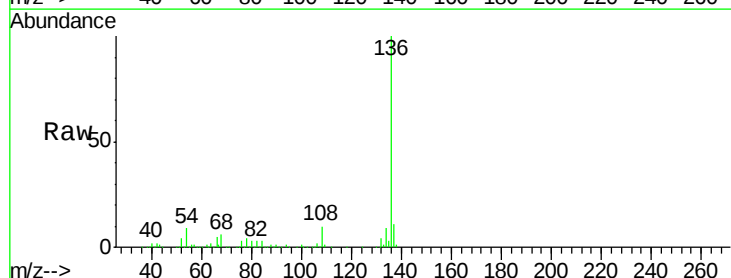
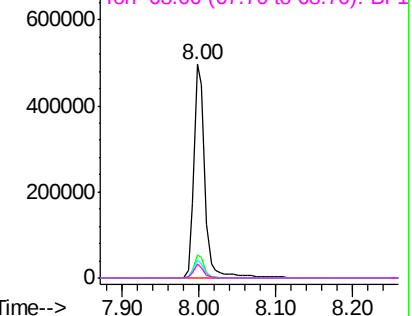
136 100

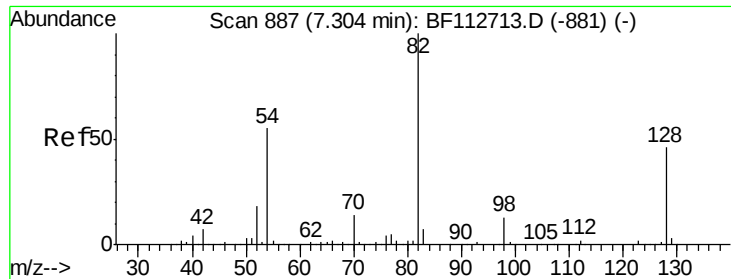
137 11.0 8.9 13.3

54 8.6 7.0 10.6

68 6.5 5.0 7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





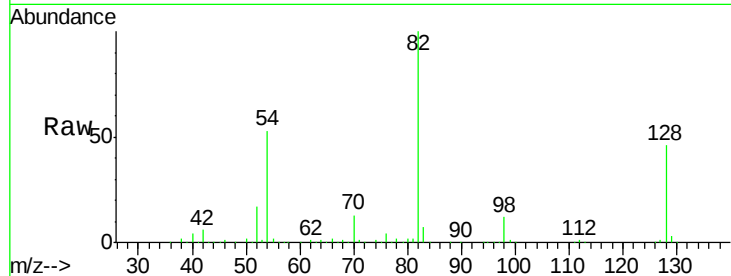
#23
Nitrobenzene-d5
Concen: 88.686 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

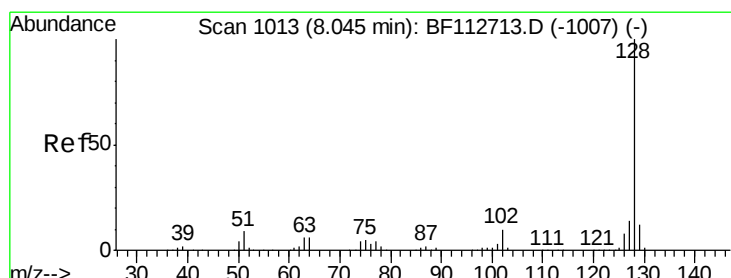
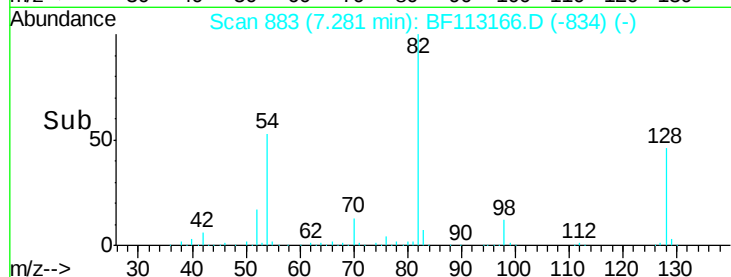
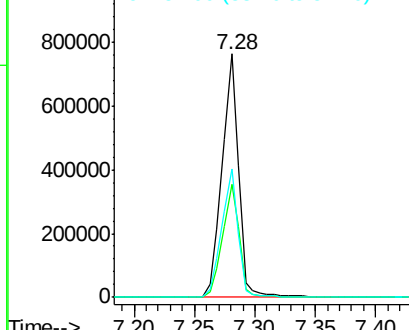
Tgt Ion: 82 Resp: 731700
Ion Ratio Lower Upper
82 100
128 46.4 37.9 56.9
54 52.5 41.2 61.8

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



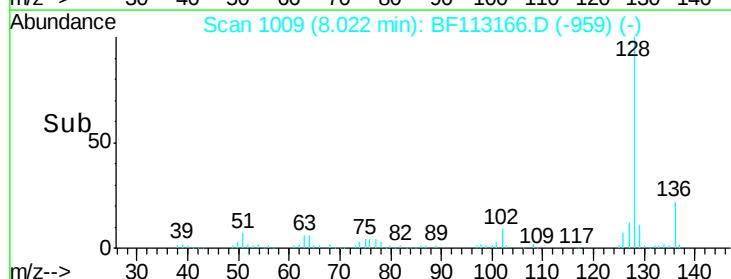
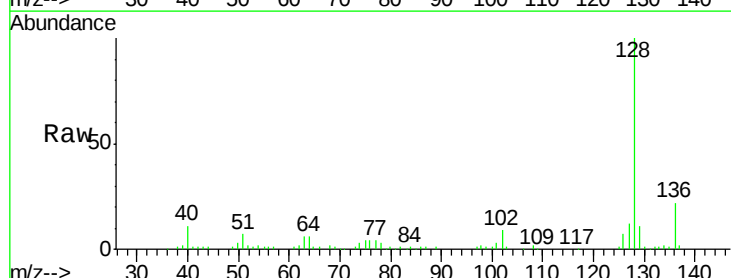
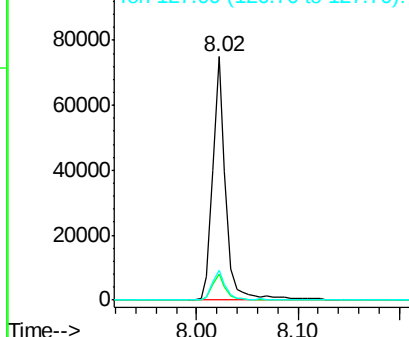
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

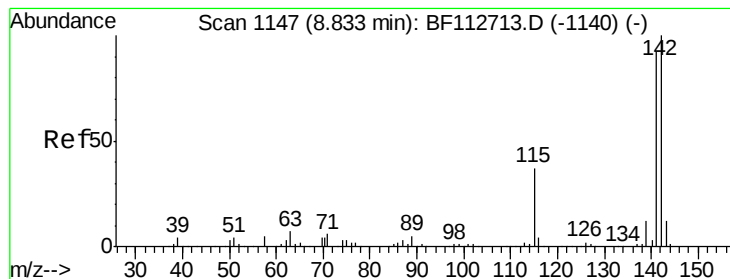


#31
Naphthalene
Concen: 2.727 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion: 128 Resp: 66831
Ion Ratio Lower Upper
128 100
129 10.5 9.4 14.0
127 12.0 10.9 16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#38

1-Methylnaphthalene

Concen: 2.410 ng

RT: 8.81 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

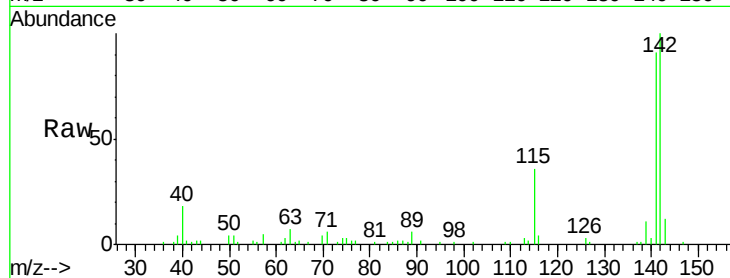
ClientSampleId :

SB-10(1-2)-031519

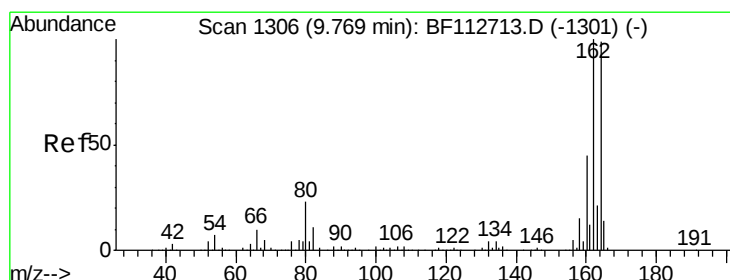
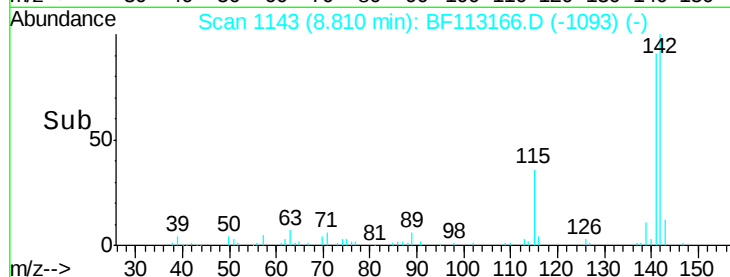
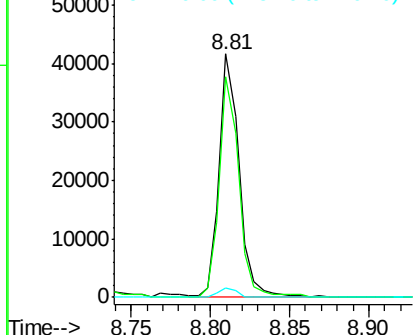
Tgt Ion:	142	Resp:	36952
Ion Ratio	Lower	Upper	
142	100		
141	90.7	73.5	110.3
116	3.8	3.0	4.6

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

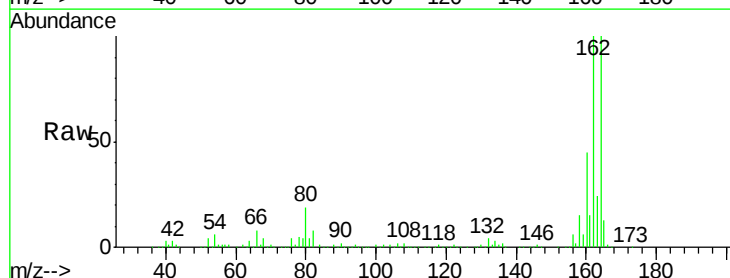
RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

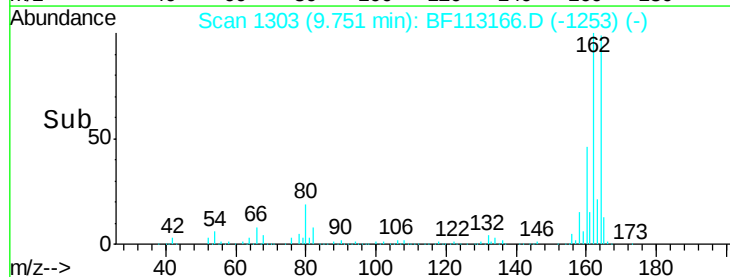
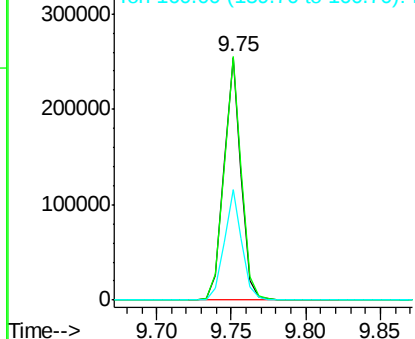
Lab File: BF113166.D

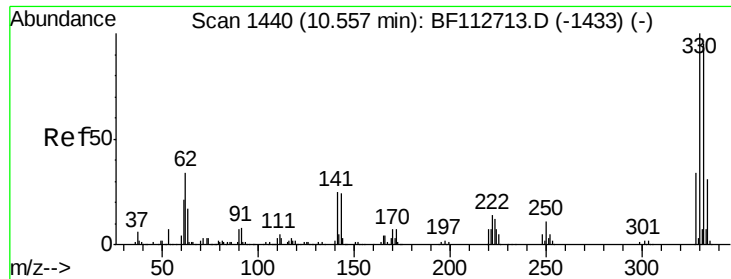
Acq: 20 Mar 2019 12:50

Tgt Ion:	164	Resp:	208008
Ion Ratio	Lower	Upper	
164	100		
162	100.4	80.8	121.2
160	45.6	36.2	54.2



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





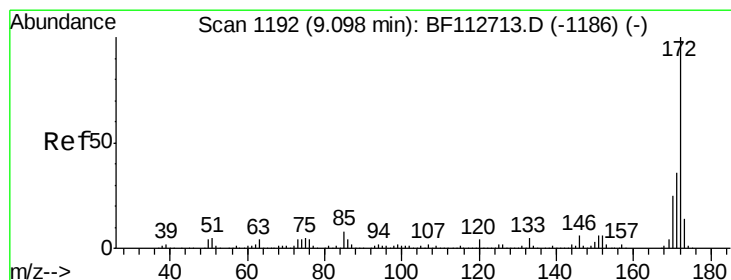
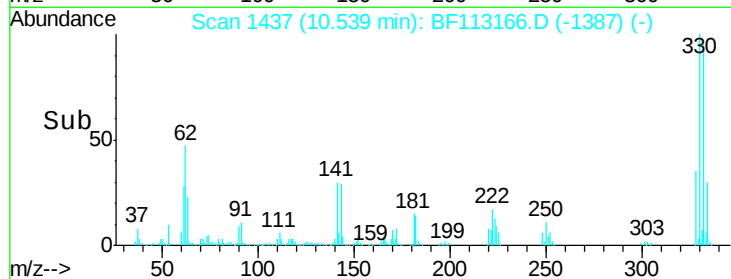
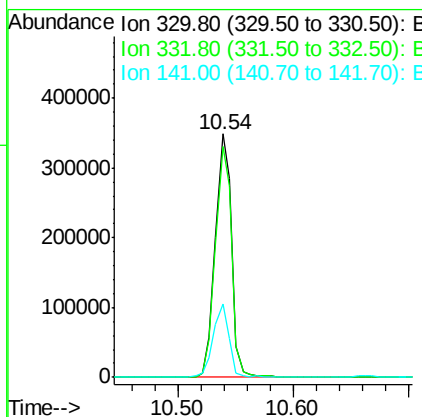
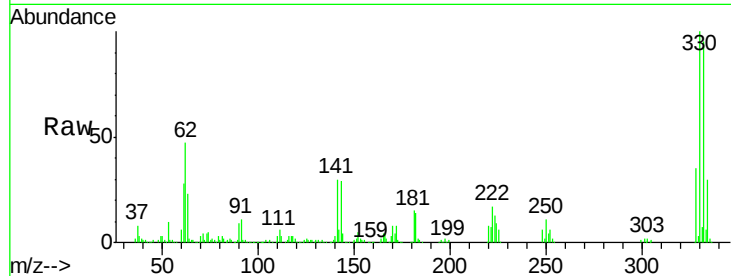
#42
 2,4,6-Tribromophenol
 Concen: 154.679 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(1-2)-031519

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	341573		
332	95.5	76.3	114.5	
141	29.3	22.3	33.5	

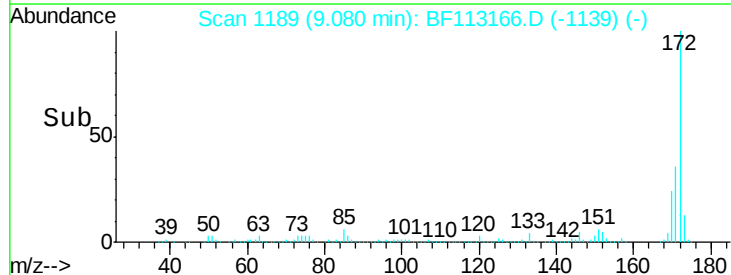
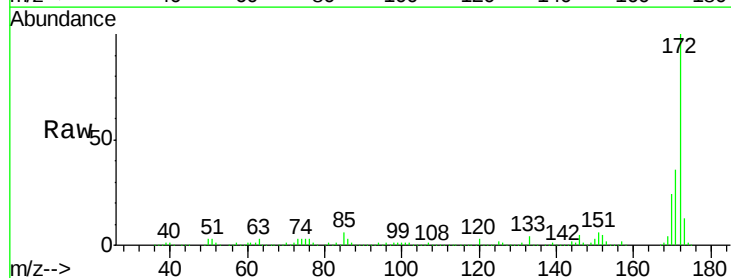
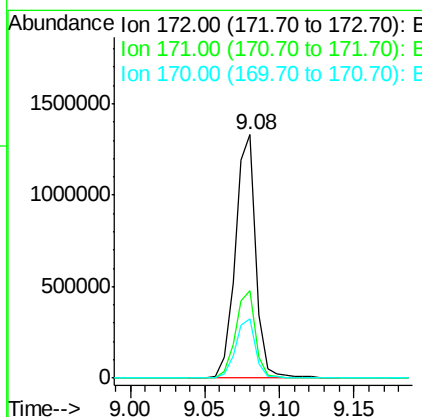
Manual Integrations
 APPROVED

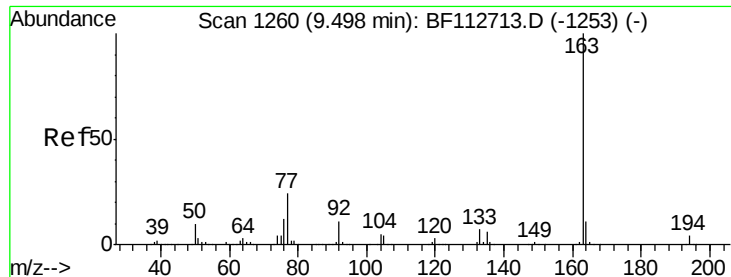
Sohil
 3/21/2019 6:36:13 PM



#45
 2-Fluorobiphenyl
 Concen: 111.205 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1284187		
171	35.8	29.0	43.4	
170	24.3	20.1	30.1	





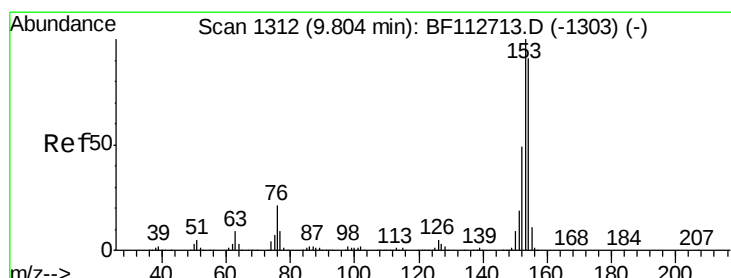
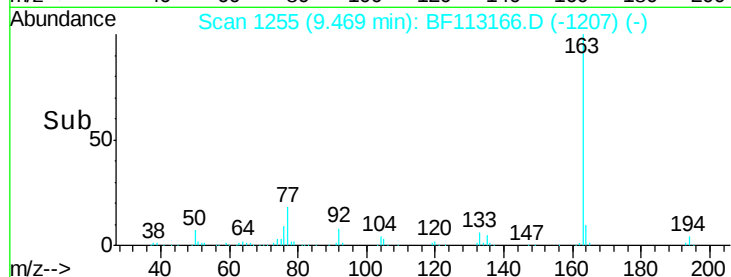
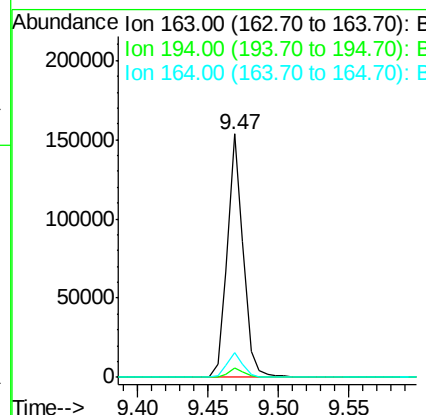
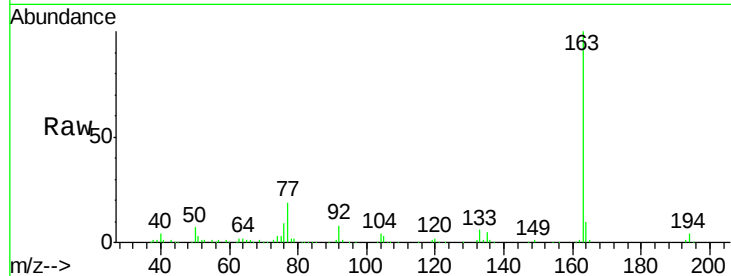
#50
Dimethylphthalate
Concen: 7.846 ng
RT: 9.47 min Scan# 1255
Delta R.T. -0.02 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.7	3.3	4.9
164	9.9	8.6	12.8

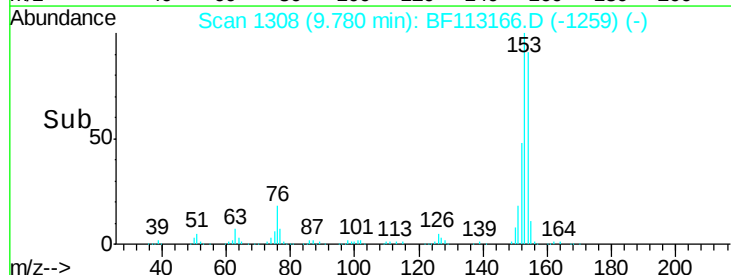
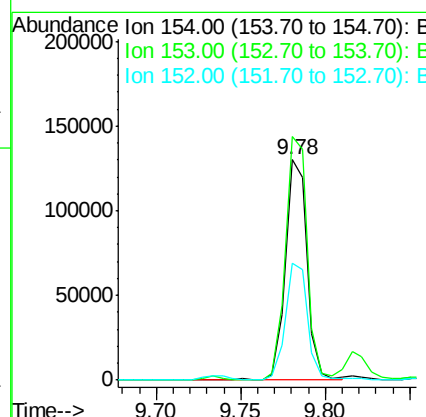
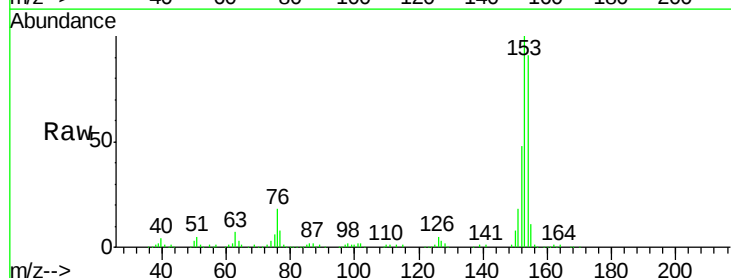
Manual Integrations
APPROVED

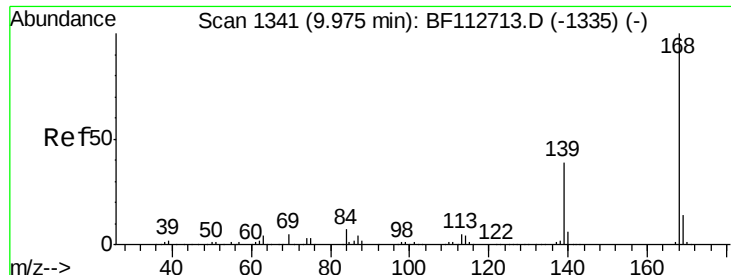
Sohil
3/21/2019 6:36:13 PM



#52
Acenaphthene
Concen: 8.850 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	110.4	89.9	134.9
152	53.1	43.4	65.2





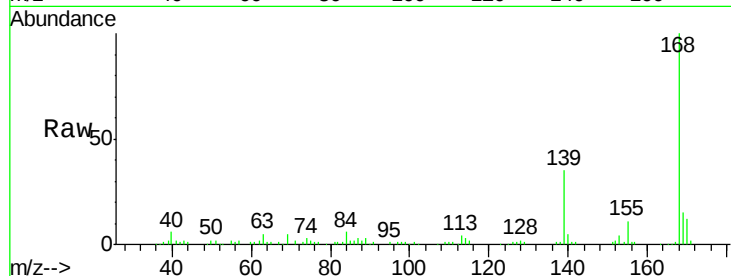
#55
Dibenzenofuran
Concen: 5.591 ng
RT: 9.96 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

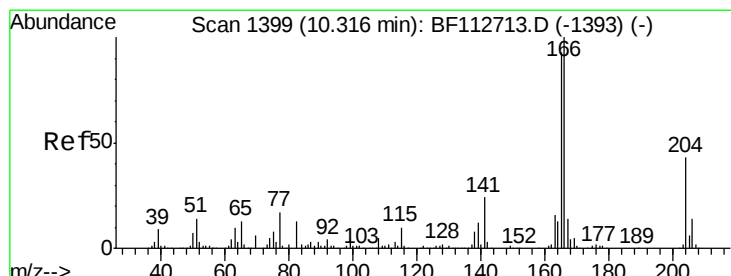
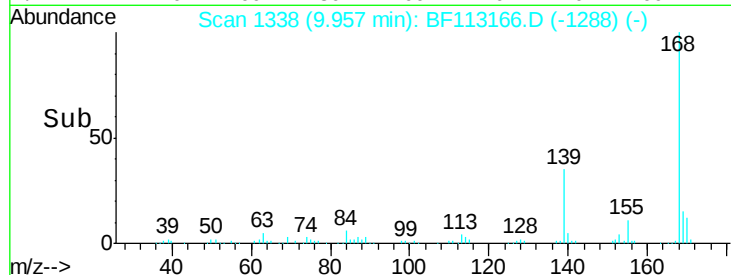
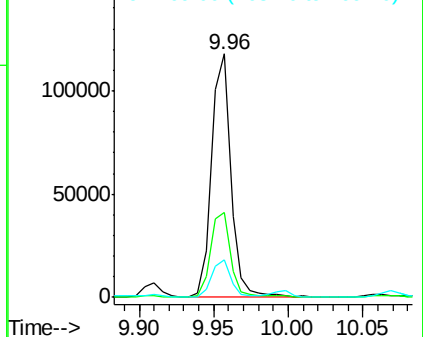
Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.1	30.7	46.1
169	15.3	11.0	16.6

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



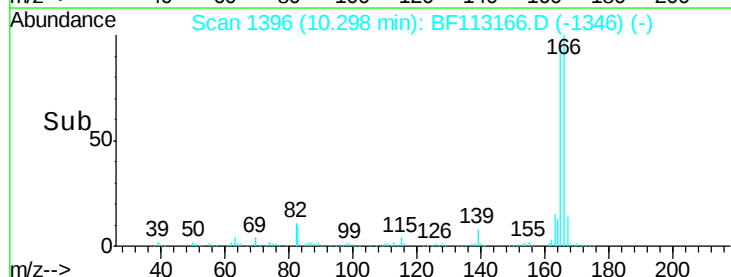
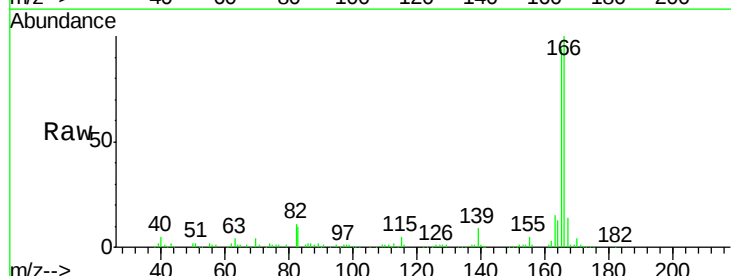
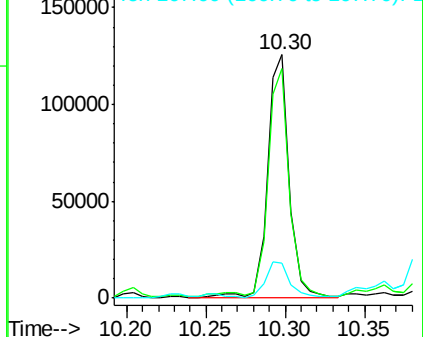
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

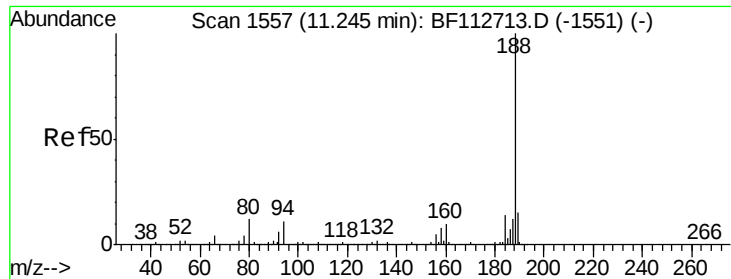


#58
Fluorene
Concen: 8.941 ng
RT: 10.30 min Scan# 1396
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.3	75.4	113.2
167	14.4	11.0	16.6

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





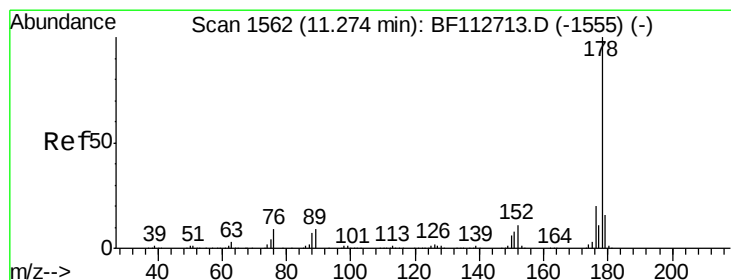
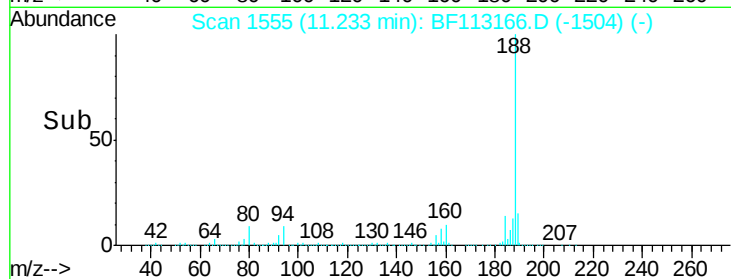
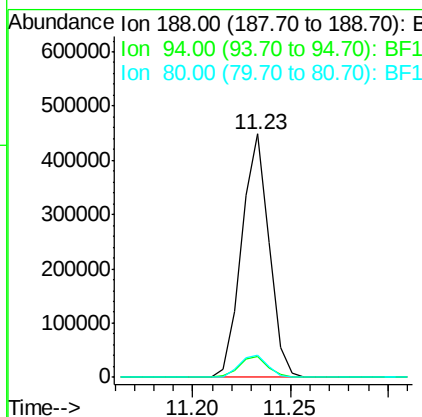
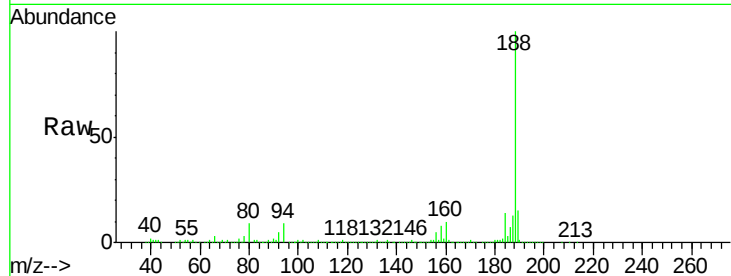
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.8	7.4	11.2
80	9.0	7.9	11.9

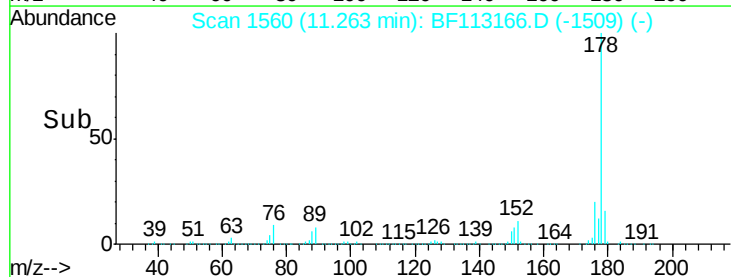
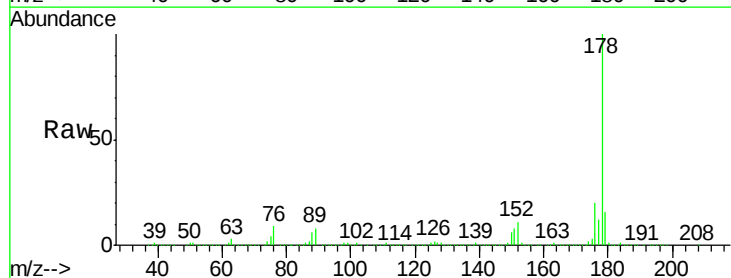
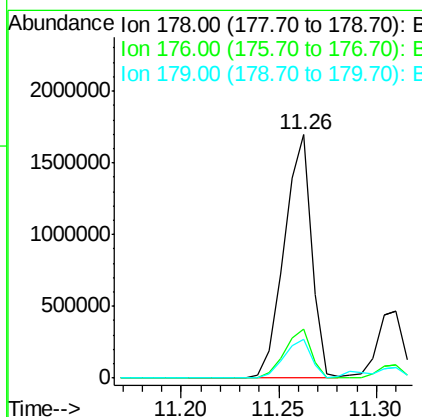
Manual Integrations
APPROVED

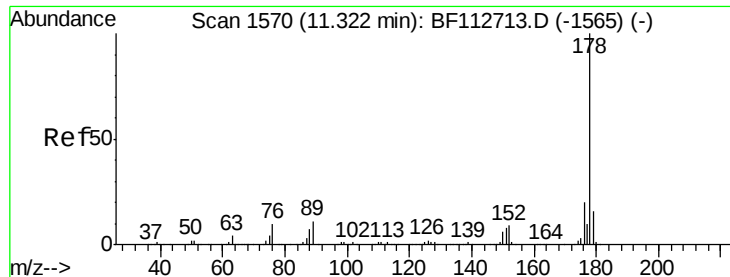
Sohil
3/21/2019 6:36:13 PM



#71
Phenanthrene
Concen: 75.566 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.4	16.2	24.4
179	16.2	13.0	19.4





#72

Anthracene

Concen: 18.617 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

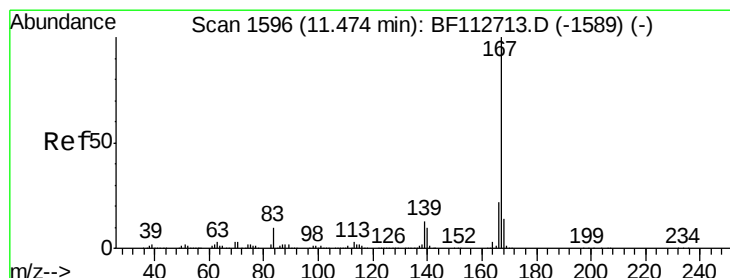
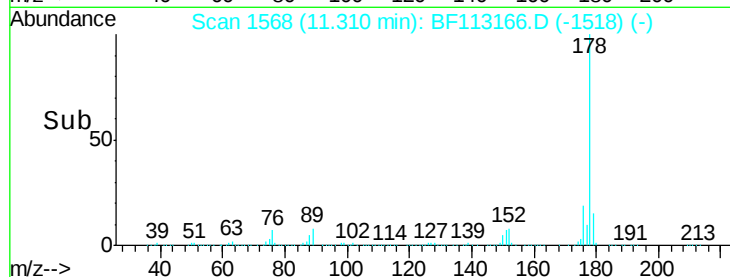
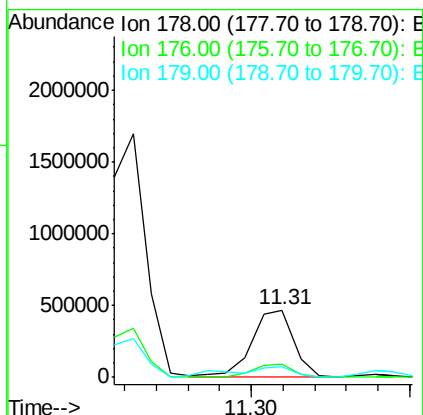
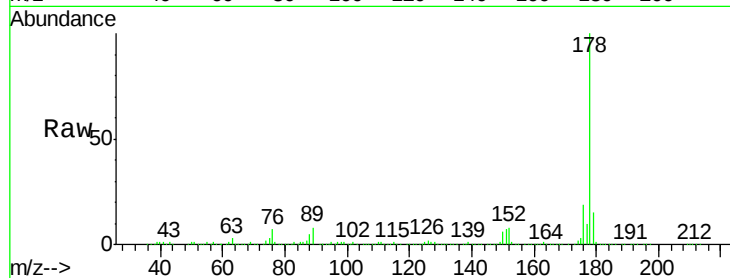
ClientSampleId :

SB-10(1-2)-031519

Tgt Ion:	178	Resp:	422383
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.7	23.5
179	15.2	12.4	18.6

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



#73

Carbazole

Concen: 7.836 ng

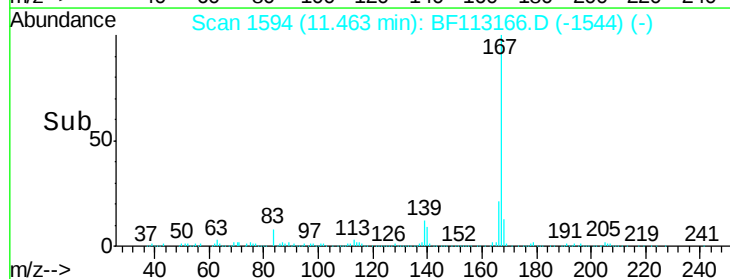
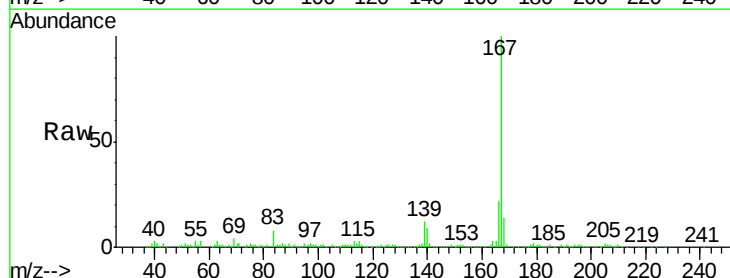
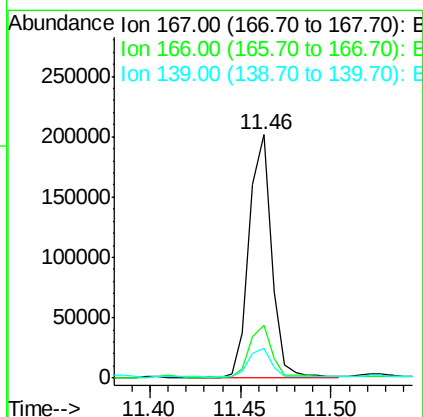
RT: 11.46 min Scan# 1594

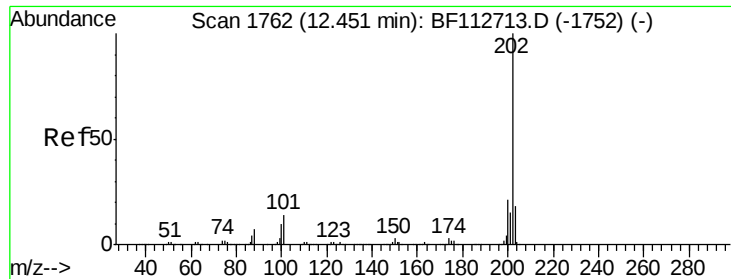
Delta R.T. -0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Tgt Ion:	167	Resp:	173423
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.8	26.6
139	12.2	10.6	16.0





#75

Fluoranthene

Concen: 78.172 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

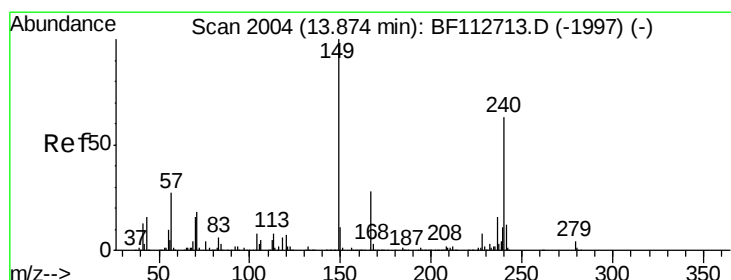
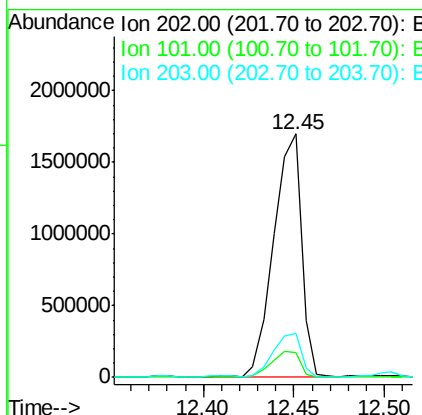
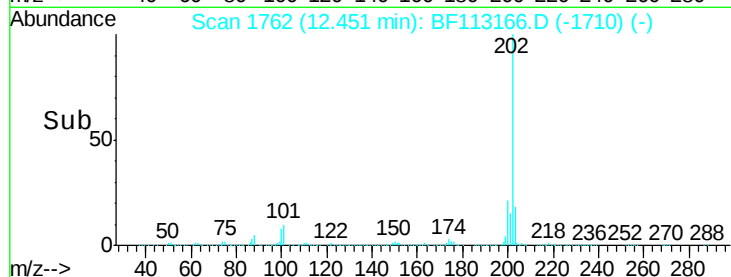
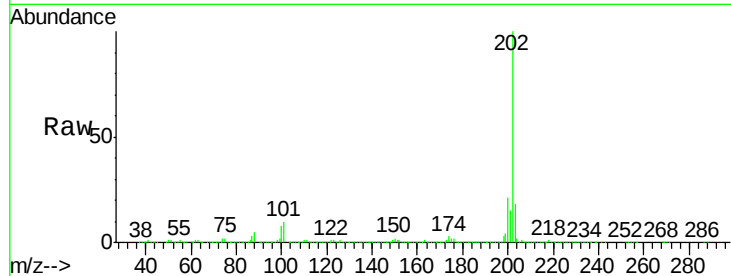
ClientSampleId :

SB-10(1-2)-031519

Tgt Ion:	202	Resp:	1815206
Ion Ratio	Lower	Upper	
202	100		
101	10.3	0.0	31.9
203	17.9	0.0	38.4

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



#76

Chrysene-d12

Concen: 20.000 ng

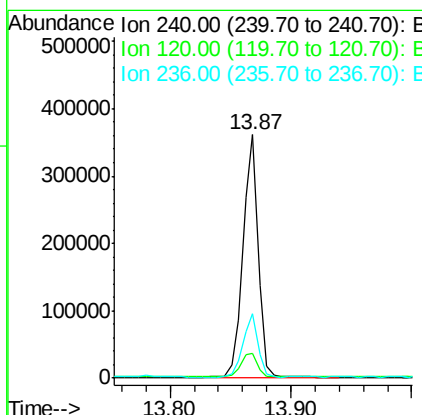
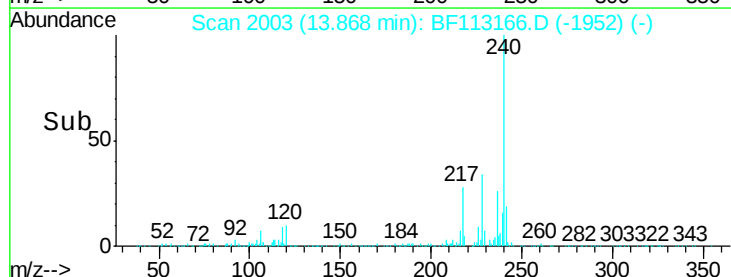
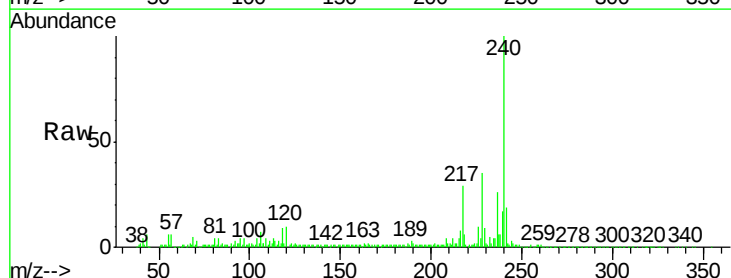
RT: 13.87 min Scan# 2003

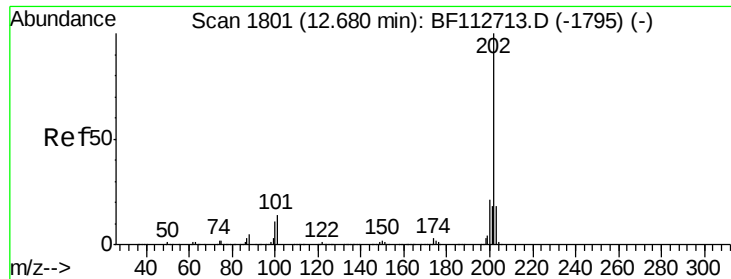
Delta R.T. -0.00 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Tgt Ion:	240	Resp:	317045
Ion Ratio	Lower	Upper	
240	100		
120	10.2	8.6	12.8
236	26.4	21.2	31.8





#78

Pyrene

Concen: 59.342 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

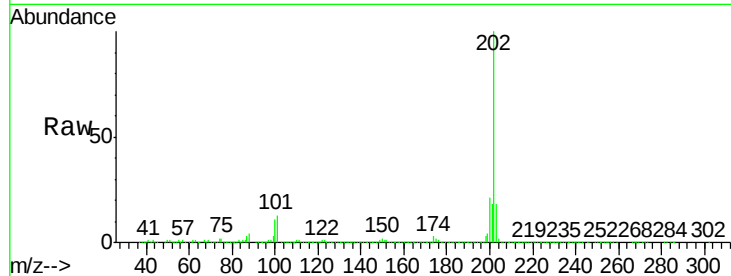
ClientSampleId :

SB-10(1-2)-031519

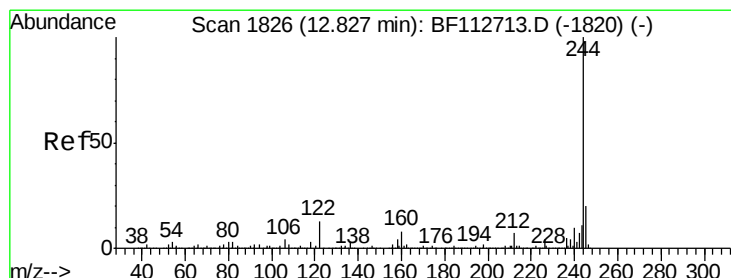
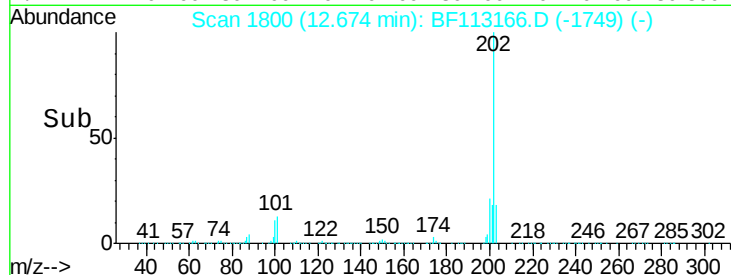
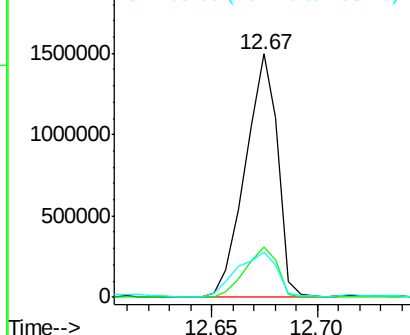
Tgt Ion:	202	Resp:	1586081
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.1	25.7
203	18.4	14.6	21.8

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 70.813 ng

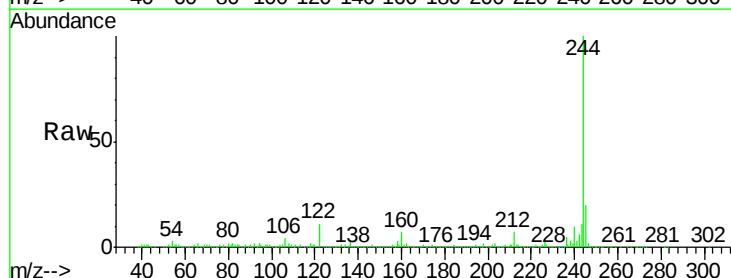
RT: 12.82 min Scan# 1824

Delta R.T. -0.00 min

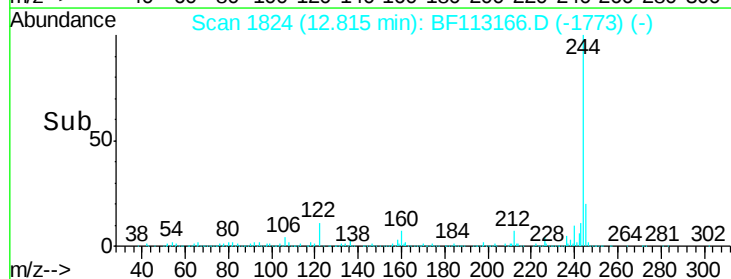
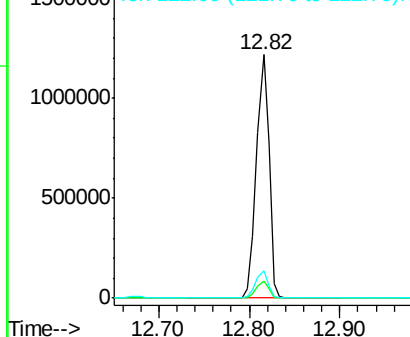
Lab File: BF113166.D

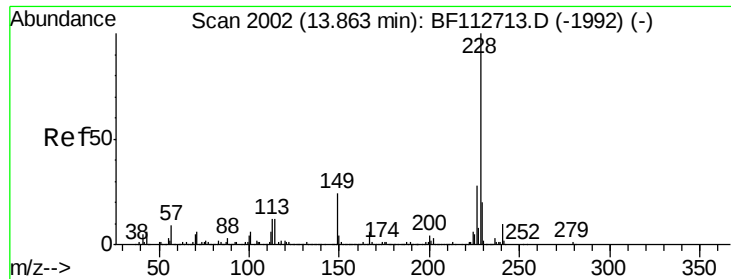
Acq: 20 Mar 2019 12:50

Tgt Ion:	244	Resp:	1158159
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	11.0	9.4	14.2



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





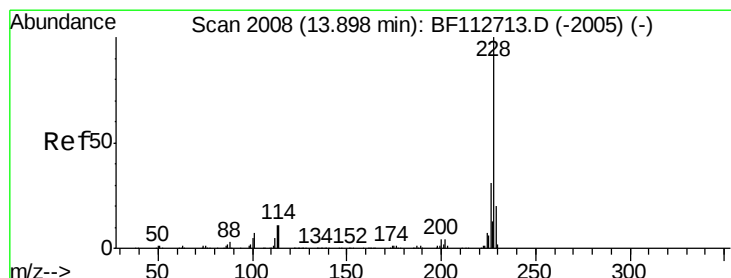
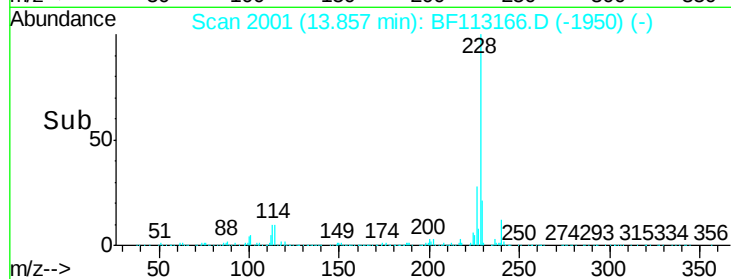
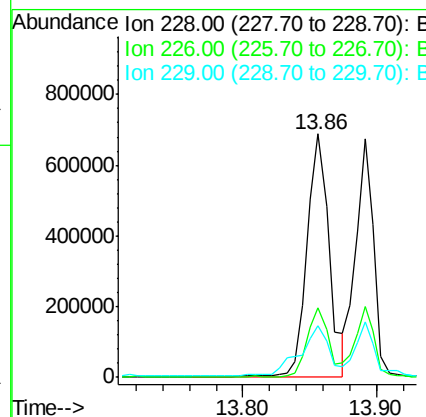
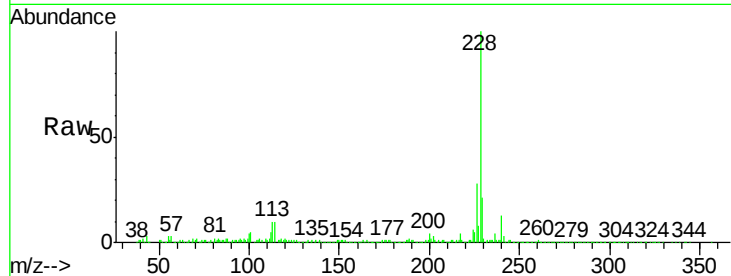
#81
Benzo(a)anthracene
Concen: 35.409 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.00 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.0	33.0
229	21.2	16.0	24.0

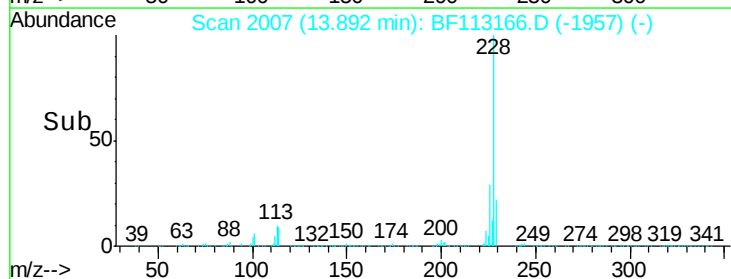
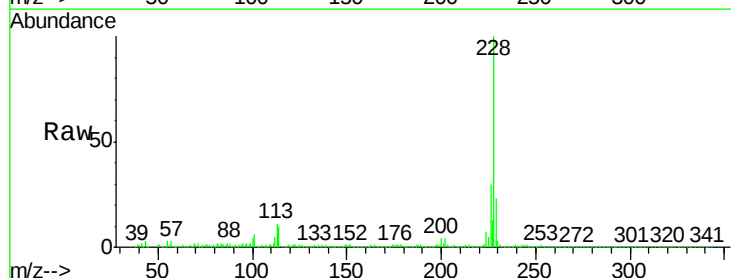
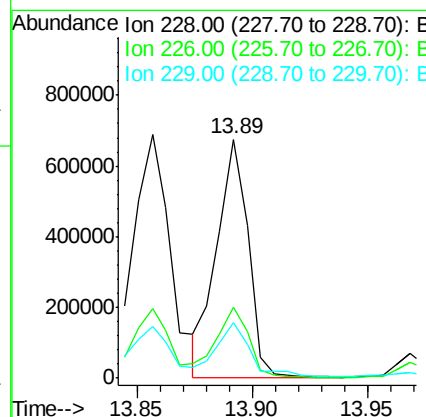
Manual Integrations
APPROVED

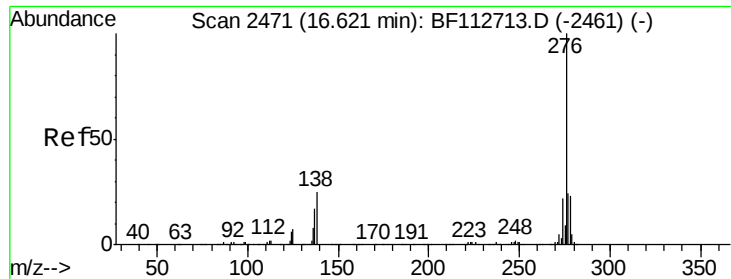
Sohil
3/21/2019 6:36:13 PM



#83
Chrysene
Concen: 29.547 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.6	36.8
229	23.1	16.2	24.2





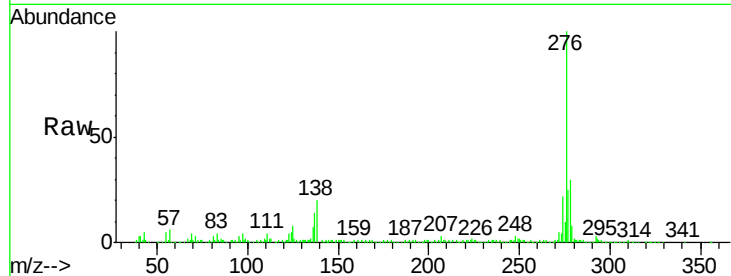
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 19.936 ng
 RT: 16.64 min Scan# 2474
 Delta R.T. -0.00 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(1-2)-031519

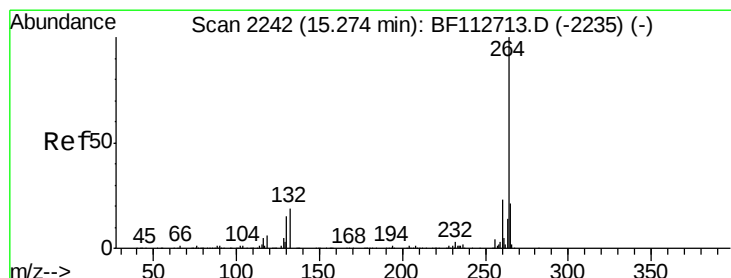
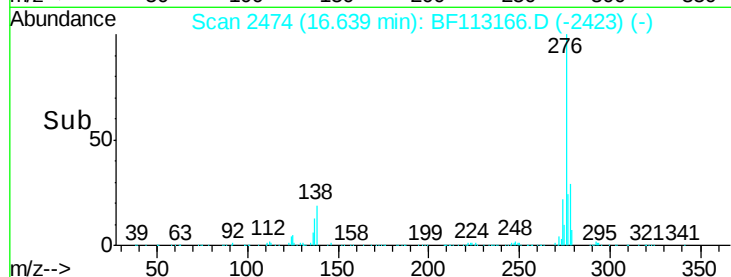
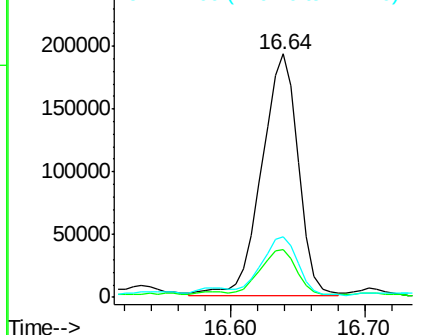
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.2	18.6	28.0
277	24.1	20.2	30.2

Manual Integrations
 APPROVED

Sohil
 3/21/2019 6:36:13 PM

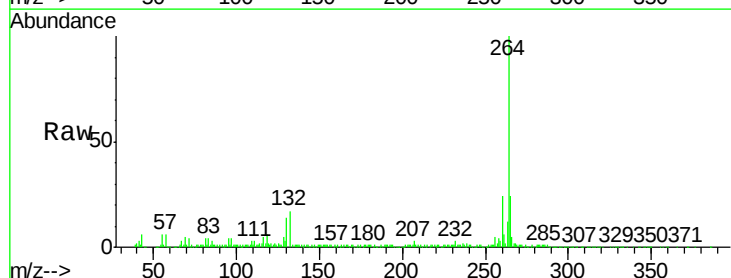


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

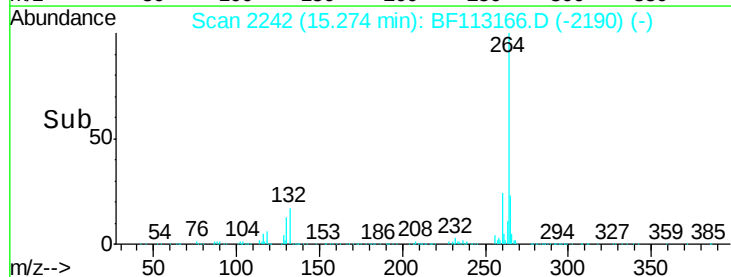
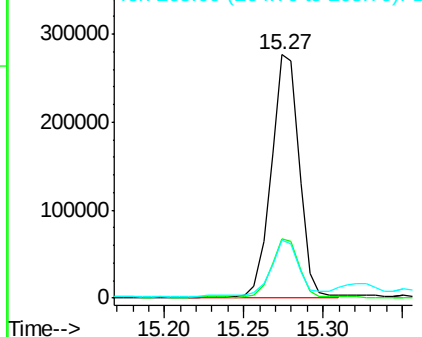


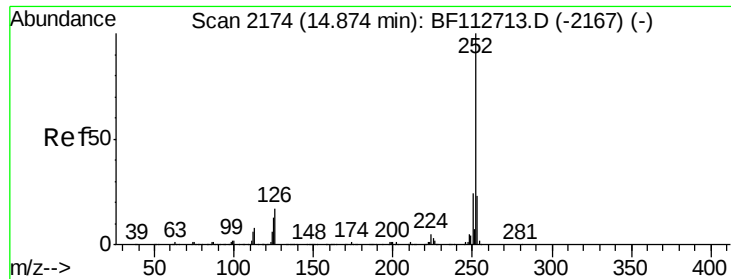
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. 0.01 min
 Lab File: BF113166.D
 Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	23.7	17.7	26.5



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 37.163 ng m

RT: 14.88 min Scan# 2175

Delta R.T. 0.01 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

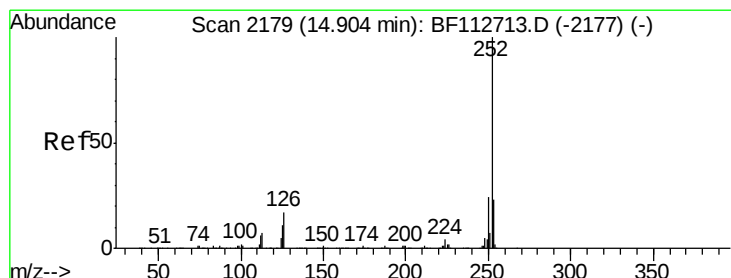
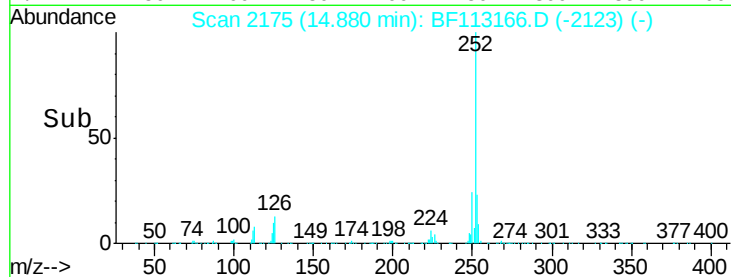
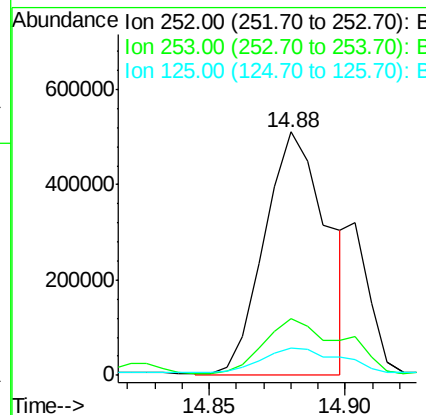
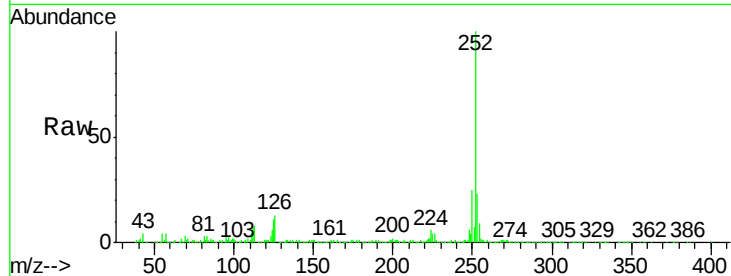
ClientSampleId :

SB-10(1-2)-031519

Tgt Ion:	252	Resp:	816796
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.2	27.4
125	11.4	8.0	12.0

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM



#89

Benzo(k)fluoranthene

Concen: 9.072 ng m

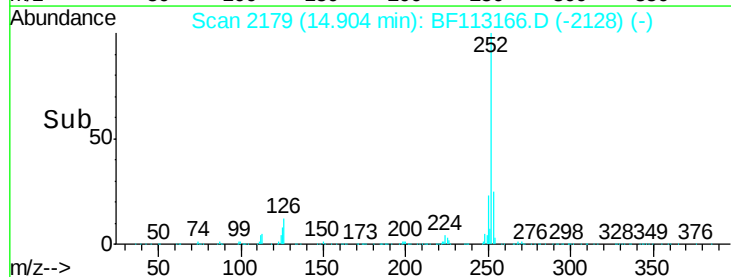
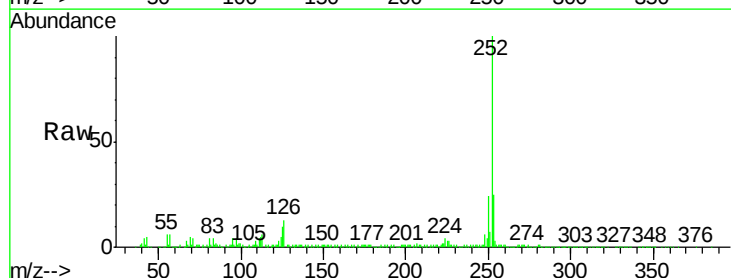
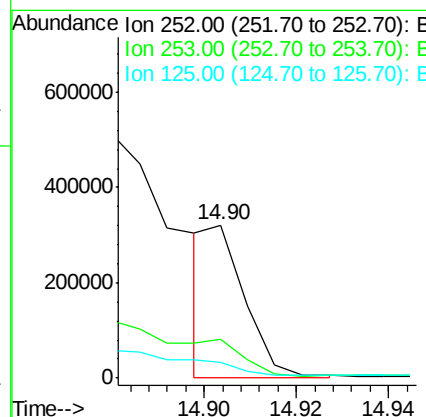
RT: 14.90 min Scan# 2179

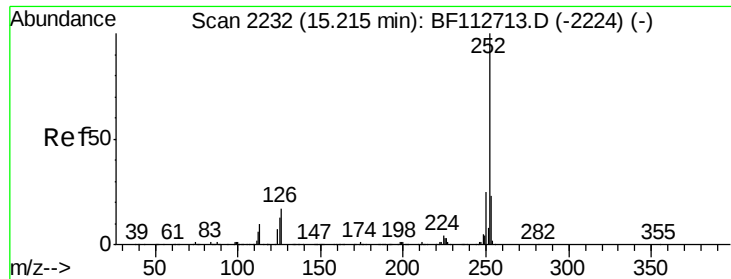
Delta R.T. -0.00 min

Lab File: BF113166.D

Acq: 20 Mar 2019 12:50

Tgt Ion:	252	Resp:	180614
Ion Ratio	Lower	Upper	
252	100		
253	25.0	17.9	26.9
125	10.0	8.2	12.2





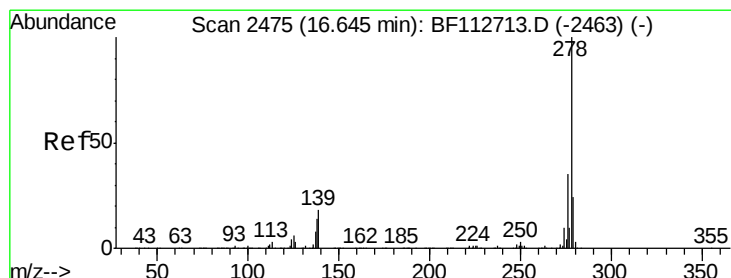
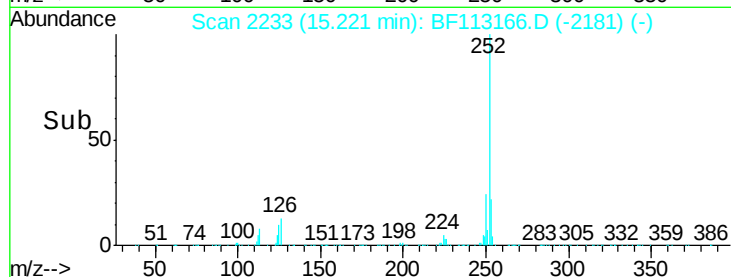
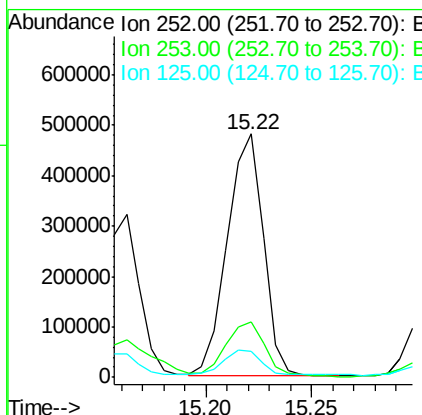
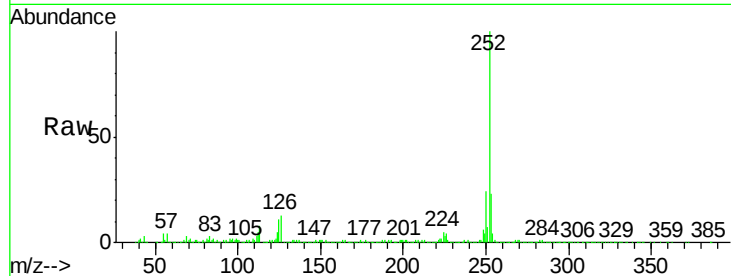
#90
Benzo(a)pyrene
Concen: 29.430 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Instrument :
BNA_F
ClientSampleId :
SB-10(1-2)-031519

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	10.9	9.1	13.7

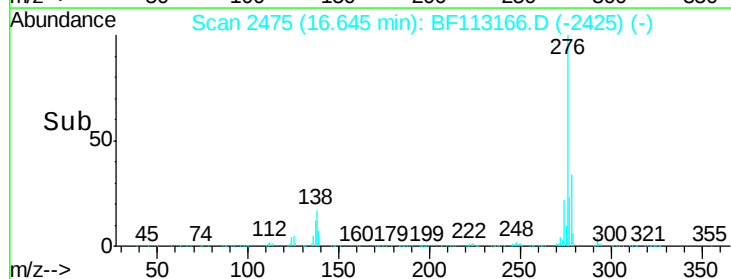
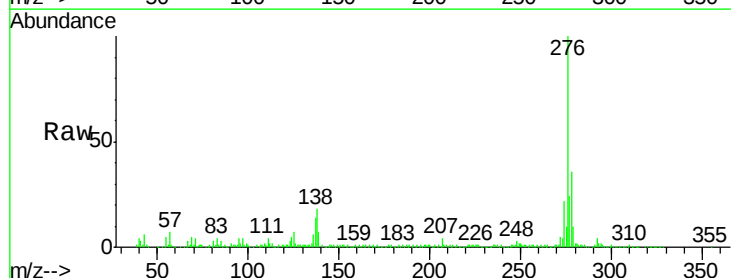
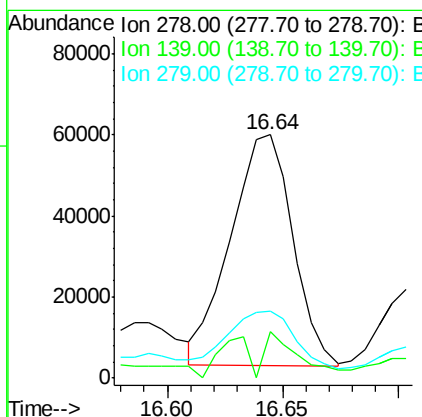
Manual Integrations
APPROVED

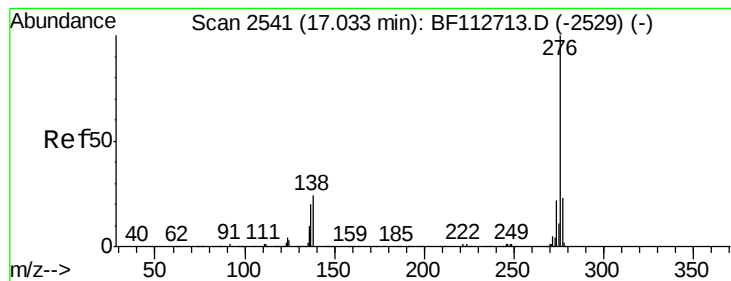
Sohil
3/21/2019 6:36:13 PM



#91
Dibenzo(a,h)anthracene
Concen: 6.463 ng
RT: 16.64 min Scan# 2475
Delta R.T. -0.01 min
Lab File: BF113166.D
Acq: 20 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.1	11.8	17.8#
279	27.7	19.0	28.4





#92

Benzo(g,h,i)perylene

Concen: 20.571 ng

RT: 17.04 min Scan# 2543

Delta R.T. -0.00 min

Lab File: BF113166.D

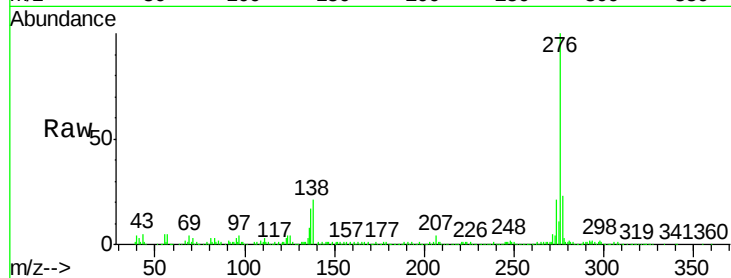
Acq: 20 Mar 2019 12:50

Instrument :

BNA_F

ClientSampleId :

SB-10(1-2)-031519



Tgt Ion:	276	Resp:	342659
Ion Ratio	Lower	Upper	
276	100		
277	23.2	19.4	29.0
138	20.5	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/21/2019 6:36:13 PM

