

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\
 Data File : BF111609.D
 Acq On : 20 Dec 2018 00:01
 Operator : JU/SJ
 Sample : J6194-09 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-121818-B

Manual Integrations
 APPROVED

Sohil
 12/20/2018 12:42:19 PM

Quant Time: Dec 20 04:25:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 19 17:39:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	218926	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	836144	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	399759	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	633254	20.00	ng	0.00
76) Chrysene-d12	14.04	240	535847	20.00	ng	0.00
87) Perylene-d12	15.52	264	421656	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	589395	45.89	ng	0.00
7) Phenol-d6	6.51	99	772758	47.28	ng	-0.01
23) Nitrobenzene-d5	7.45	82	441150	30.71	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	185656	39.31	ng	-0.01
45) 2-Fluorobiphenyl	9.25	172	833816	30.40	ng	0.00
79) Terphenyl-d14	12.99	244	664905	23.53	ng	0.00
Target Compounds						
10) Phenol	6.52	94	68492	3.714	ng	96
31) Naphthalene	8.20	128	88893	2.213	ng	95
50) Dimethylphthalate	9.64	163	100873	3.451	ng	97
58) Fluorene	10.47	166	69988	2.670	ng	99
71) Phenanthrene	11.43	178	350604	10.440	ng	94
72) Anthracene	11.49	178	77775	2.307	ng	94
75) Fluoranthene	12.62	202	372845	10.963	ng	95
78) Pyrene	12.85	202	373296	9.865	ng	95
81) Benzo(a)anthracene	14.03	228	213487	6.981	ng	96
83) Chrysene	14.07	228	187058	6.224	ng	97
86) Indeno(1,2,3-cd)pyrene	16.99	276	63935	2.502	ng	# 88
88) Benzo(b)fluoranthene	15.09	252	202896m	8.233	ng	
89) Benzo(k)fluoranthene	15.11	252	64855m	2.764	ng	
90) Benzo(a)pyrene	15.45	252	132227	5.906	ng	96
92) Benzo(a,h,i)perylene	17.43	276	58727	3.068	ng	# 88

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

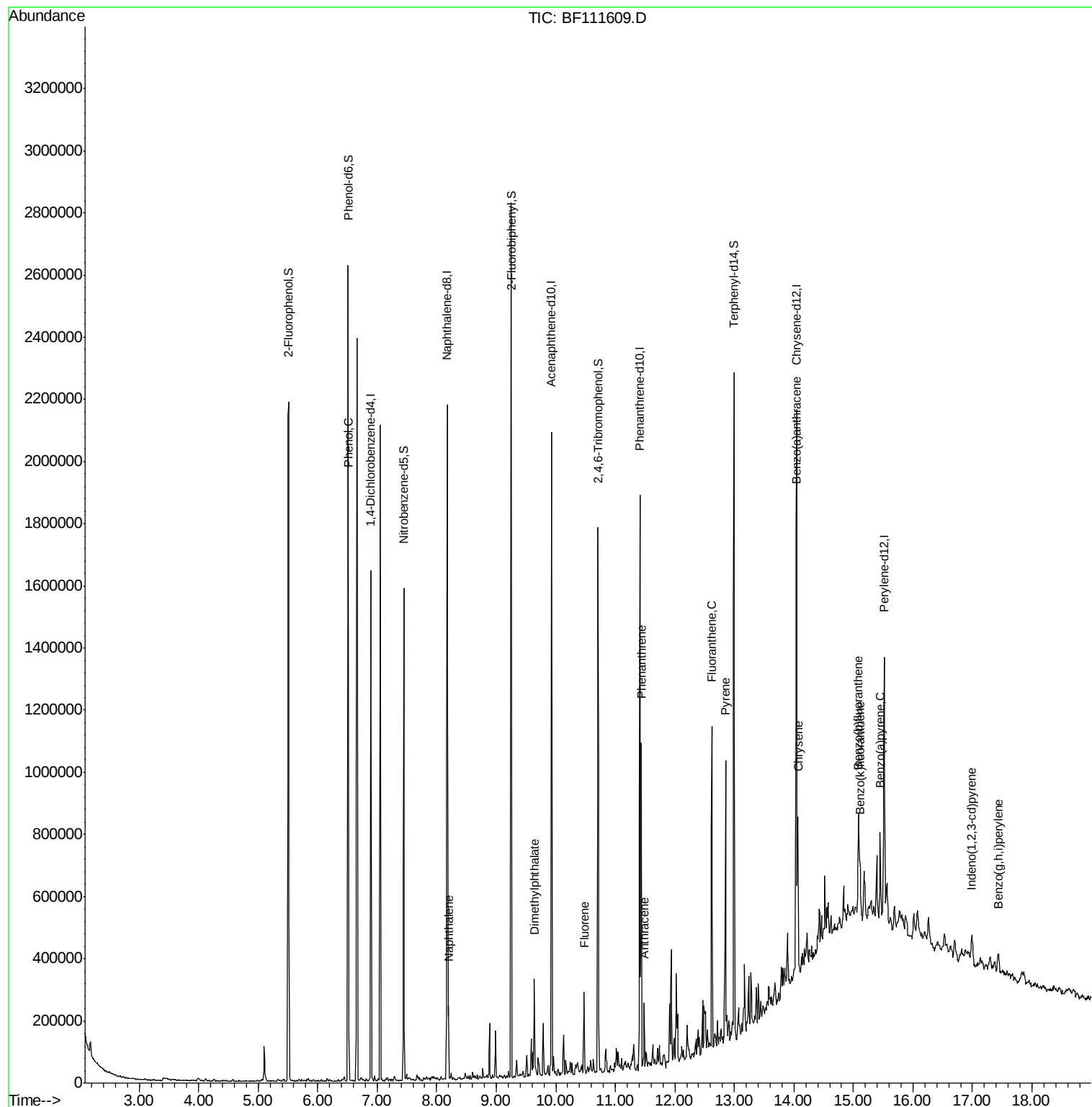
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\
Data File : BF111609.D
Acq On : 20 Dec 2018 00:01
Operator : JU/SJ
Sample : J6194-09 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

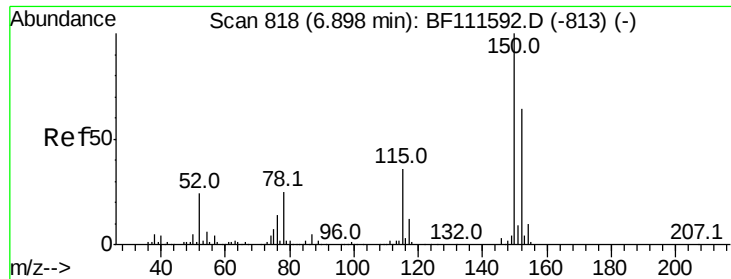
Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM

Quant Time: Dec 20 04:25:01 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 19 17:39:39 2018
Response via : Initial Calibration





#1

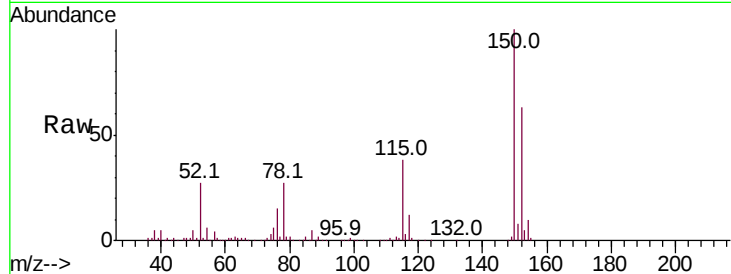
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	126.6	189.8
115	59.9	50.7	76.1

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM

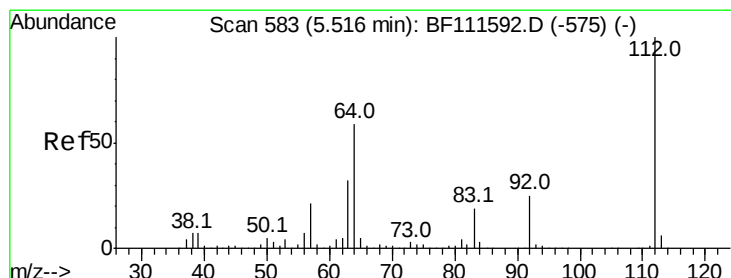
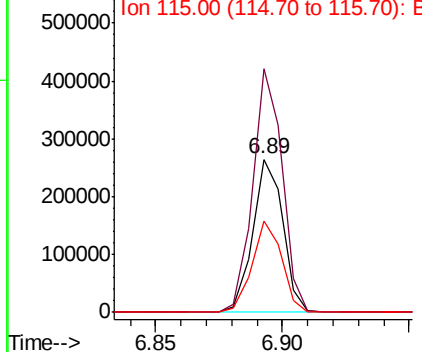
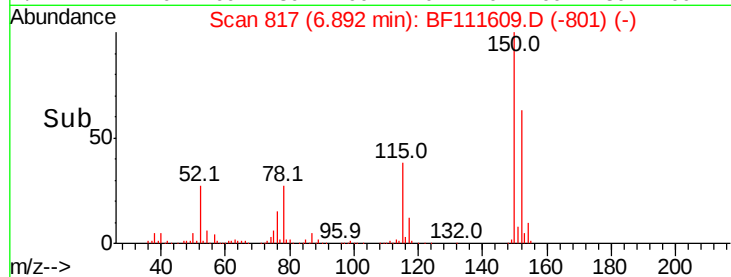


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

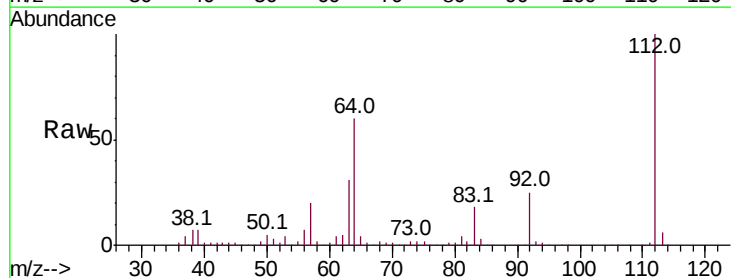
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 45.890 ng
RT: 5.51 min Scan# 582
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.4	51.8	77.6
63	31.4	26.8	40.2

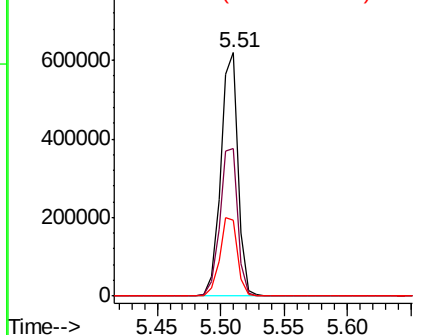
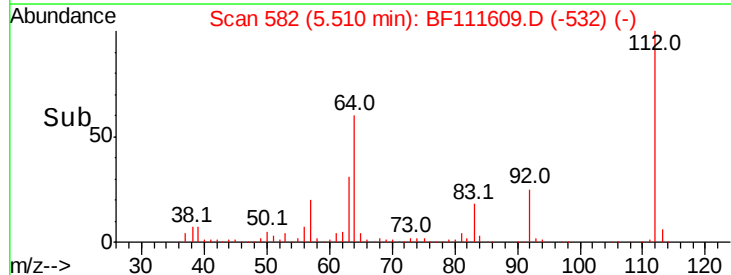


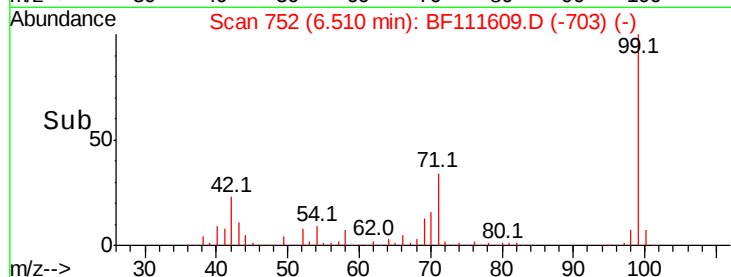
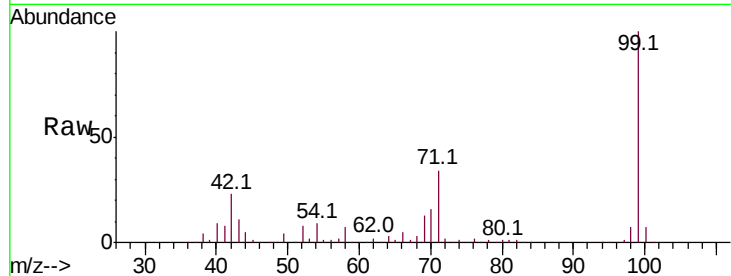
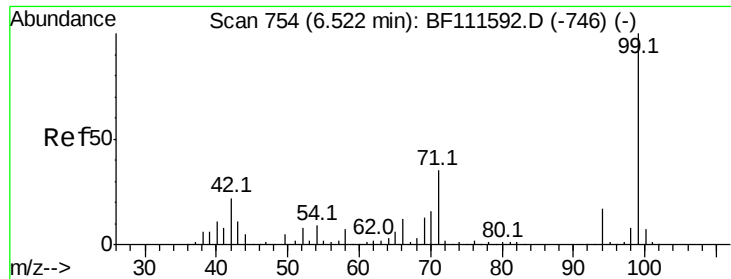
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 47.276 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tot Ion	99	Resp	772758
Ion Ratio	Lower	Upper	
99	100		
42	23.1	17.4	26.0
71	34.4	26.1	39.1

Instrument :

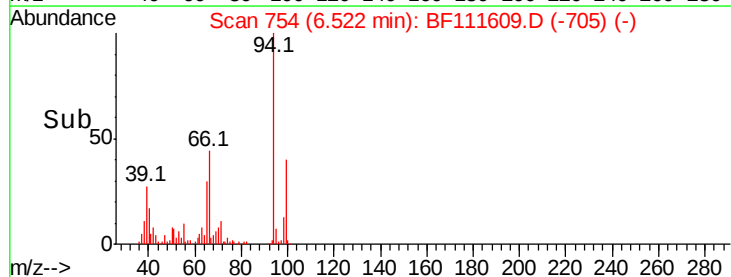
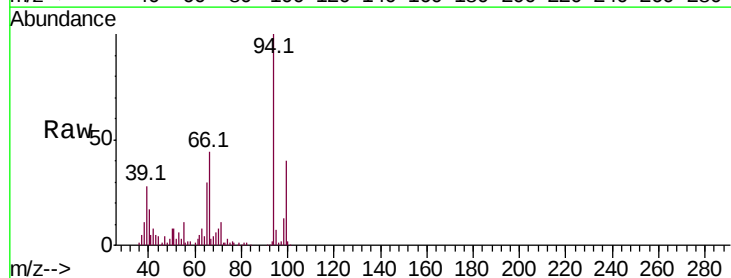
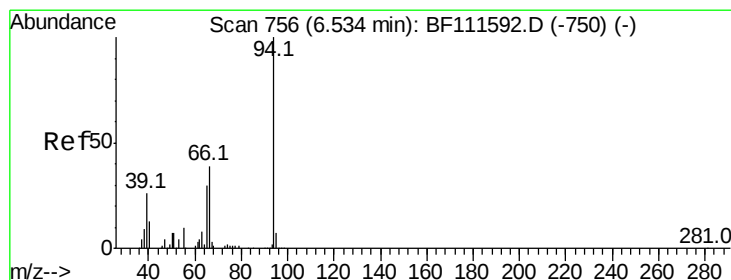
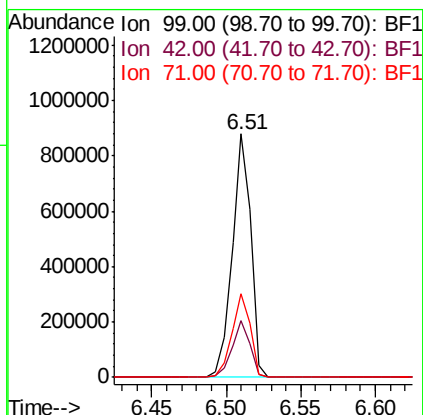
BNA_F

ClientSampleId :

OK-01-121818-B

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#10

Phenol

Concen: 3.714 ng

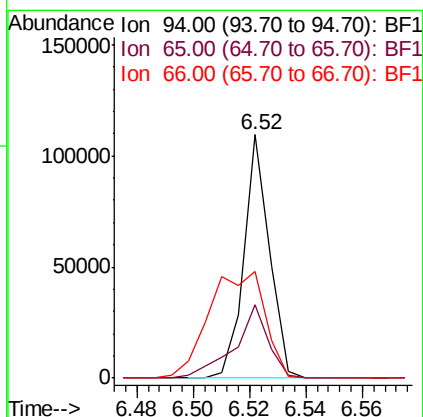
RT: 6.52 min Scan# 754

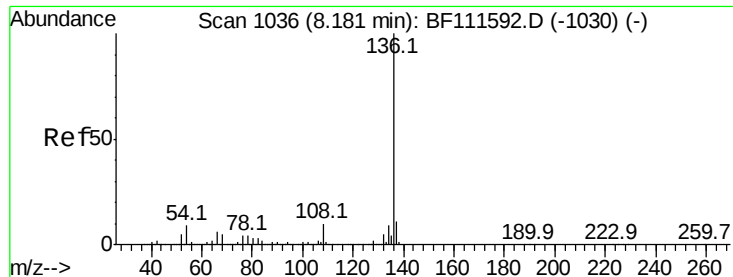
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion	94	Resp	68492
Ion Ratio	Lower	Upper	
94	100		
65	30.4	11.7	51.7
66	43.9	21.0	61.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_F

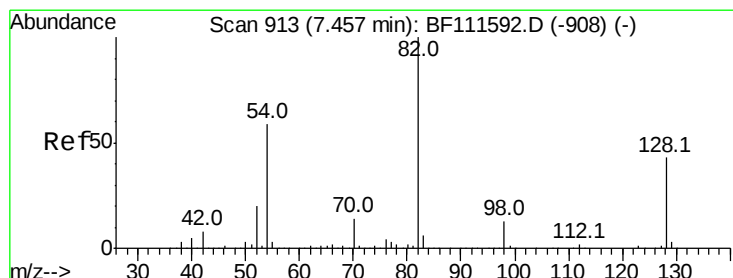
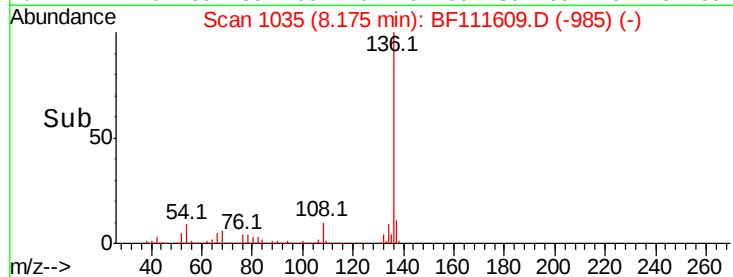
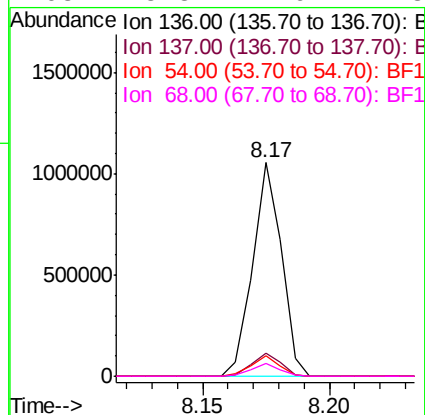
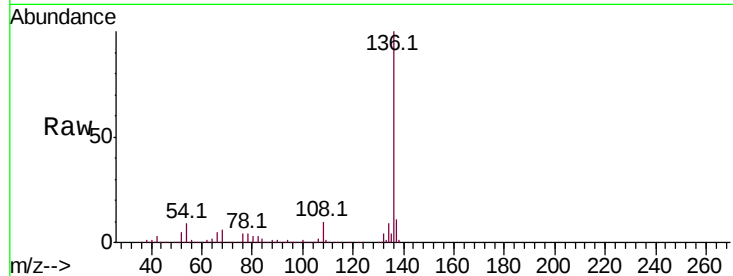
ClientSampleId :

OK-01-121818-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		836144		
137	10.9		9.1	13.7	
54	9.4		7.7	11.5	
68	5.8		4.9	7.3	

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#23

Nitrobenzene-d5

Concen: 30.710 ng

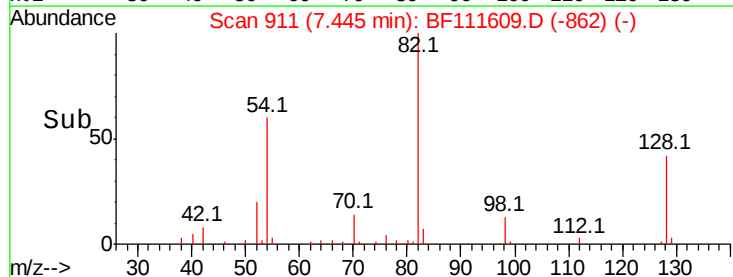
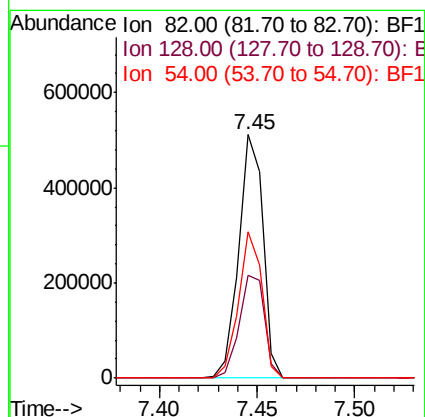
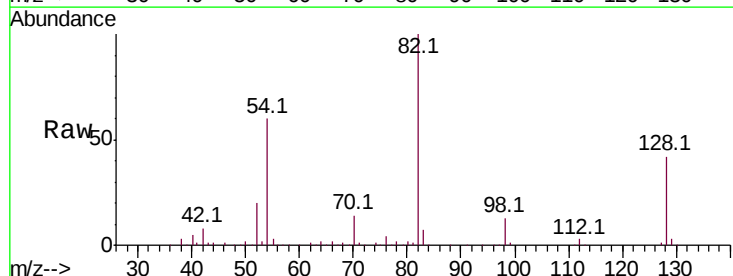
RT: 7.45 min Scan# 911

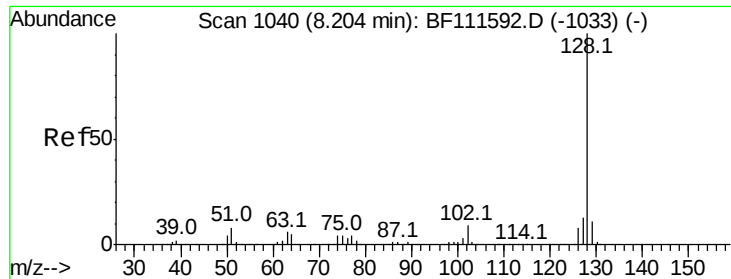
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		441150		
128	42.1		37.4	56.2	
54	60.0		47.6	71.4	





#31

Naphthalene

Concen: 2.213 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_F

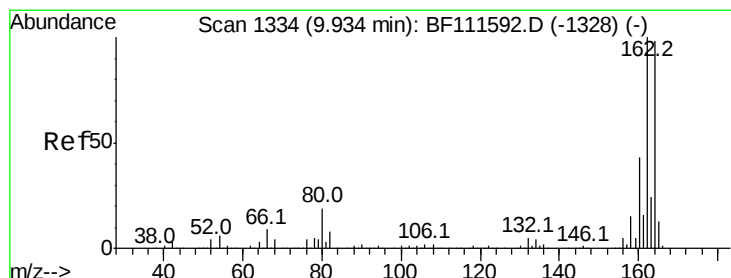
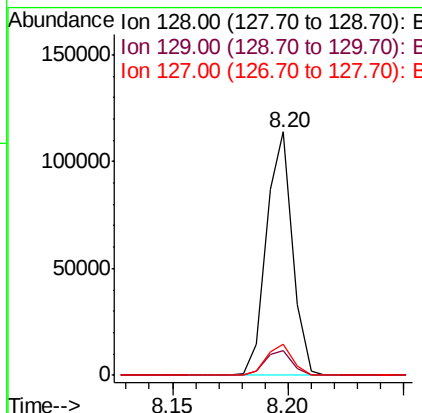
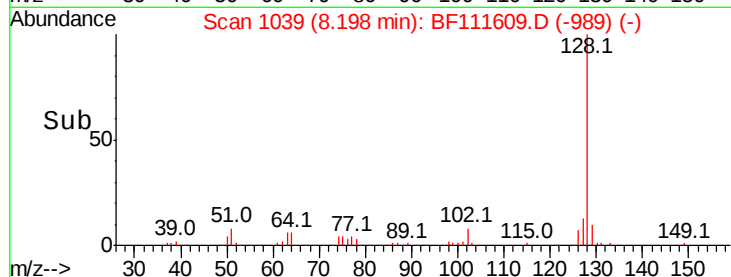
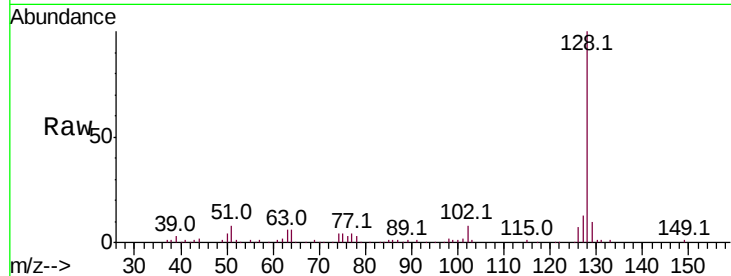
ClientSampleId :

OK-01-121818-B

Tot Ion:	128	Resp:	88893
Ion Ratio	Lower	Upper	
128	100		
129	10.4	9.8	14.8
127	12.9	12.0	18.0

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#39

Acenaphthene-d10

Concen: 20.000 ng

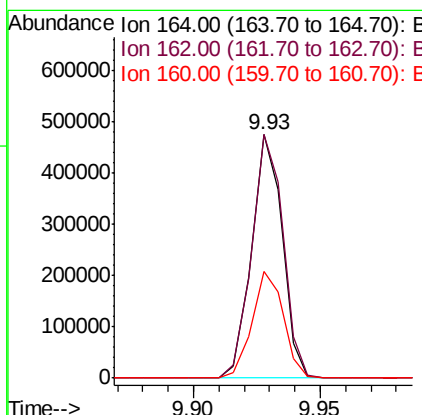
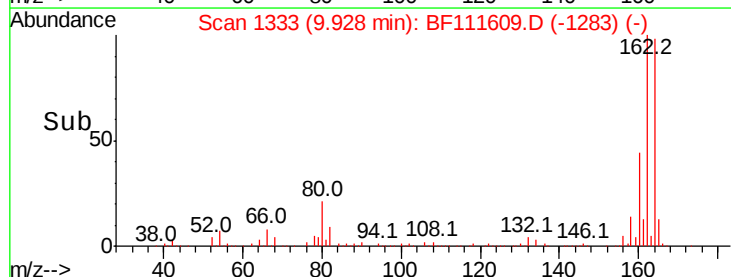
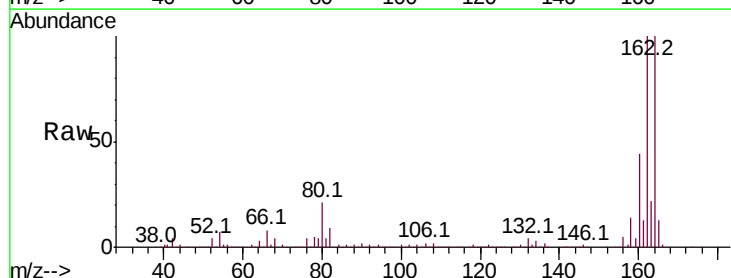
RT: 9.93 min Scan# 1333

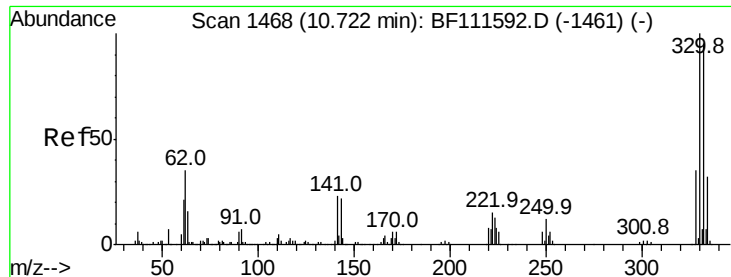
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion:	164	Resp:	399759
Ion Ratio	Lower	Upper	
164	100		
162	100.1	81.4	122.0
160	44.0	35.7	53.5





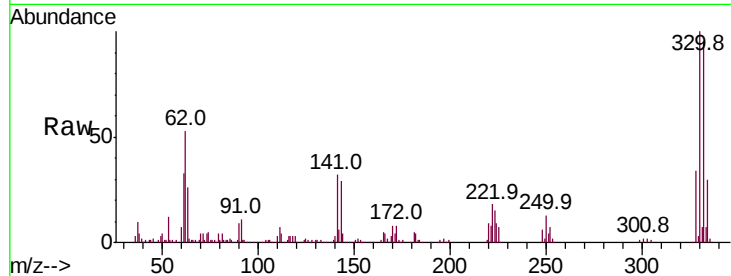
#42
 2,4,6-Tribromophenol
 Concen: 39.305 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF111609.D
 Acq: 20 Dec 2018 00:01

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-121818-B

Tot Ion	Ratio	Resp	Lower	Upper
330	100	185656		
332	95.3	76.0	114.0	
141	30.6	31.0	46.6	

Manual Integrations
 APPROVED

Sohil
 12/20/2018 12:42:19 PM

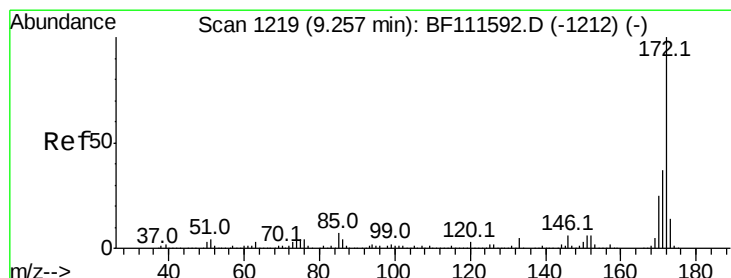
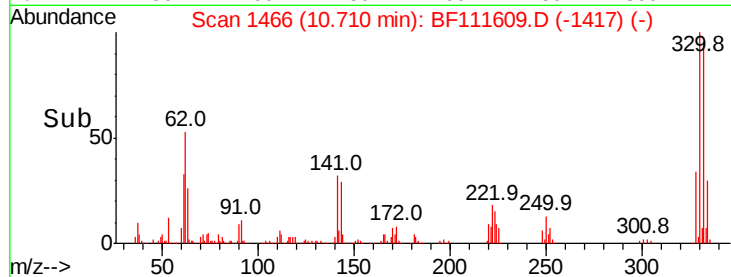
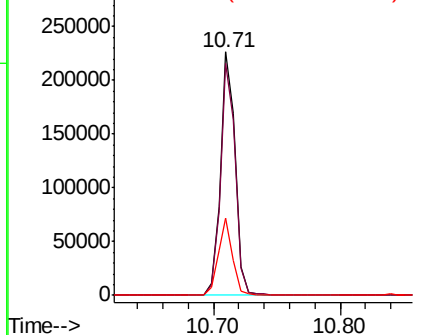


Abundance

Ion 329.80 (329.50 to 330.50): E

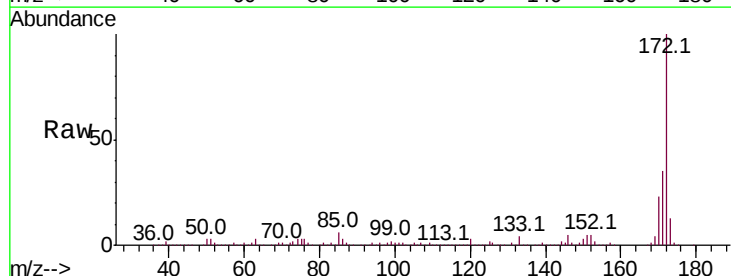
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 30.402 ng
 RT: 9.25 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: BF111609.D
 Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	833816		
171	34.8	33.0	49.4	
170	23.0	22.3	33.5	

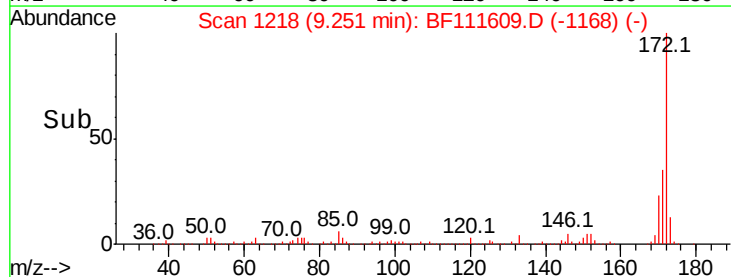
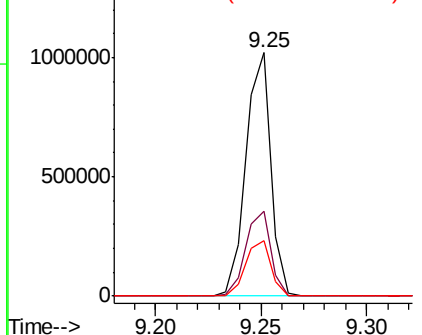


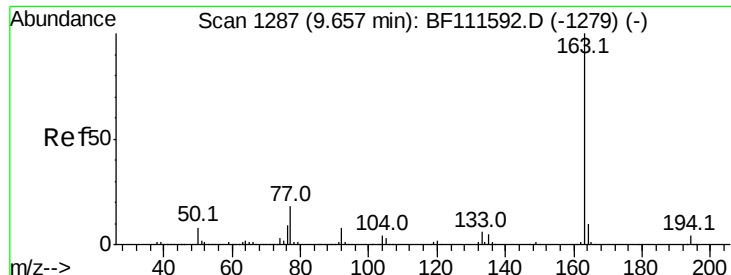
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





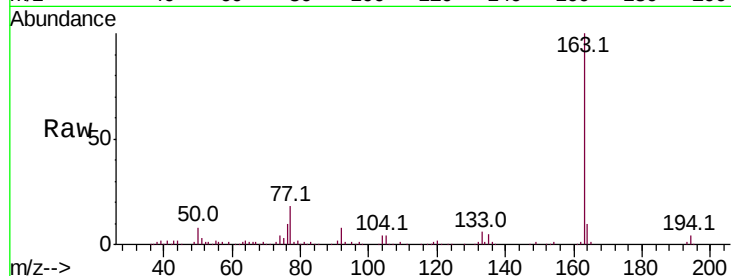
#50
Dimethylphthalate
Concen: 3.451 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.02 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

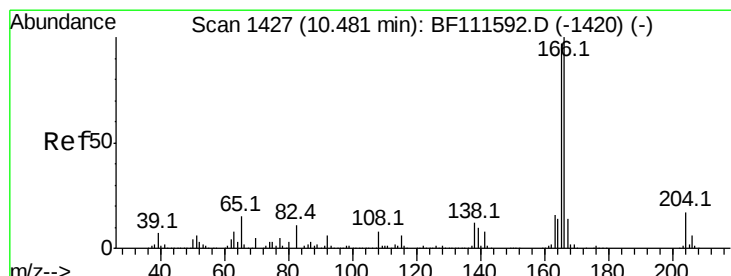
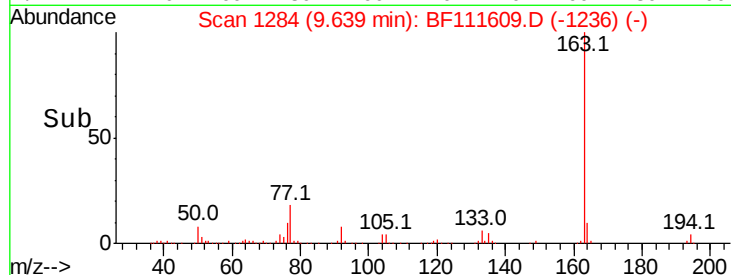
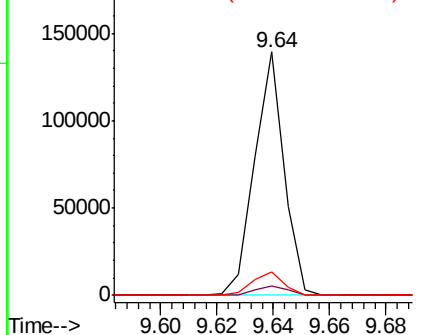
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	3.0	4.6	
164	9.7	8.9	13.3	

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM

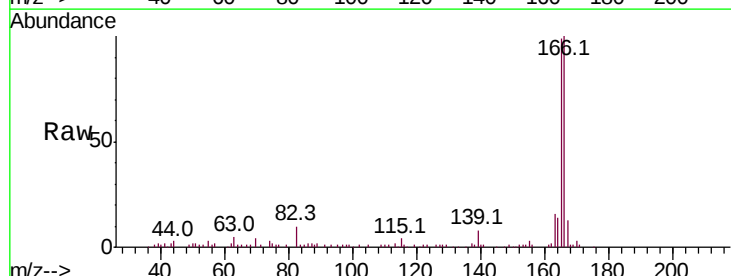


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

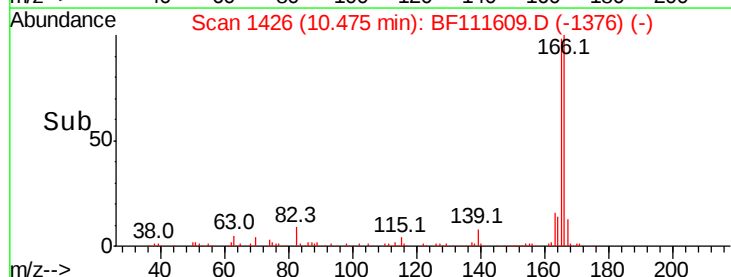
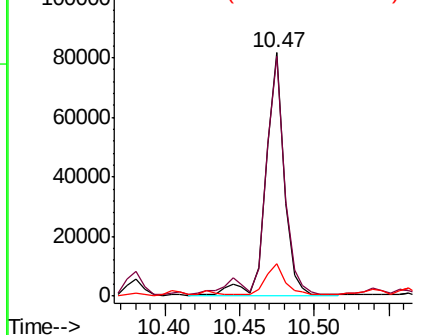


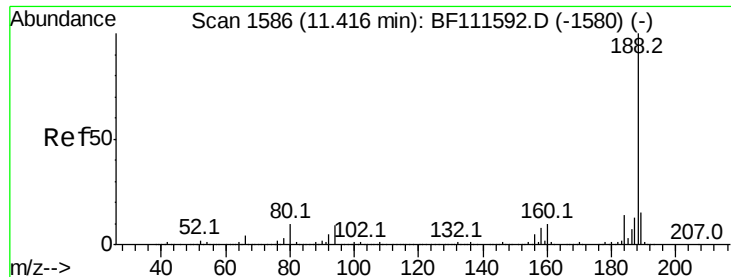
#58
Fluorene
Concen: 2.670 ng
RT: 10.47 min Scan# 1426
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	98.6	78.4	117.6	
167	13.3	11.2	16.8	



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: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_F

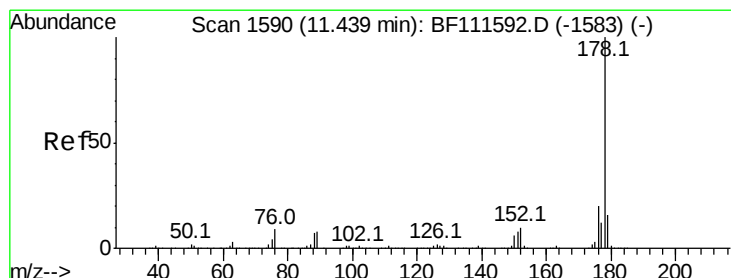
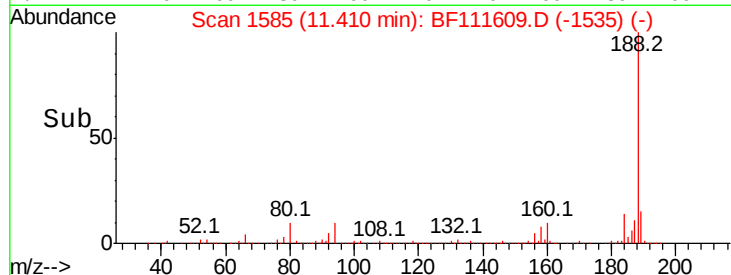
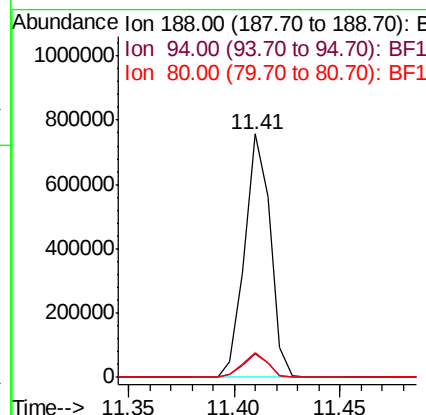
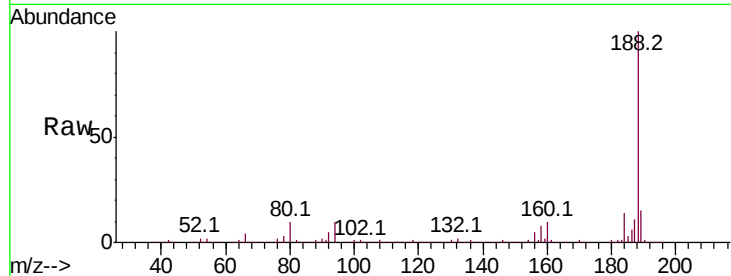
ClientSampleId :

OK-01-121818-B

Tot Ion:	188	Resp:	633254
Ion Ratio	Lower	Upper	
188	100		
94	9.6	9.6	14.4#
80	10.2	9.8	14.6

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#71

Phenanthrene

Concen: 10.440 ng

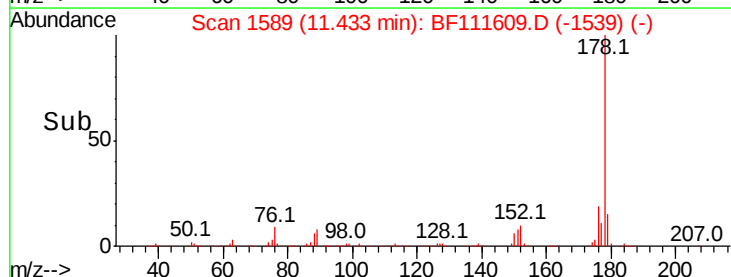
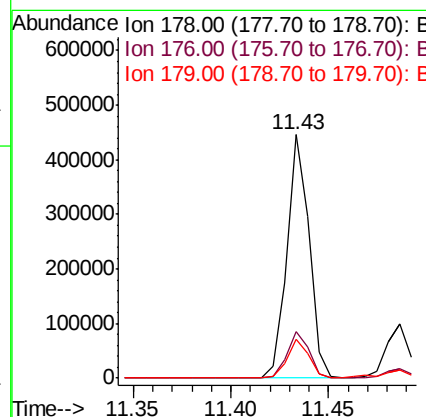
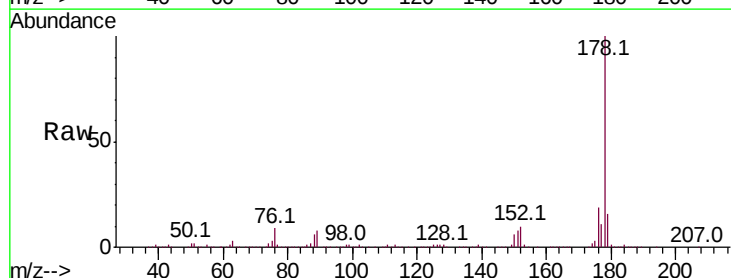
RT: 11.43 min Scan# 1589

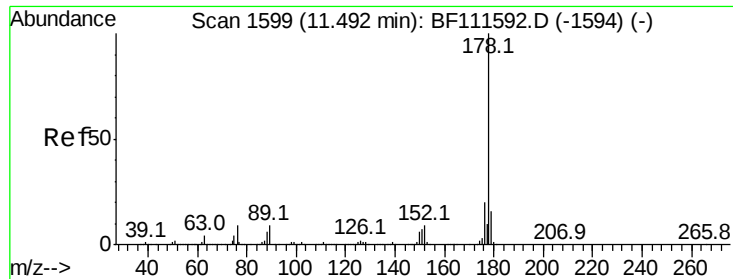
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion:	178	Resp:	350604
Ion Ratio	Lower	Upper	
178	100		
176	18.9	18.1	27.1
179	15.7	14.0	21.0





#72

Anthracene

Concen: 2.307 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_F

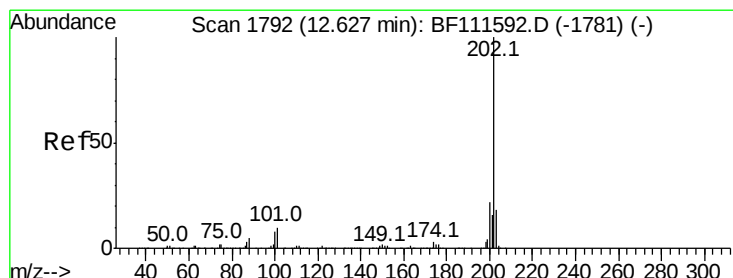
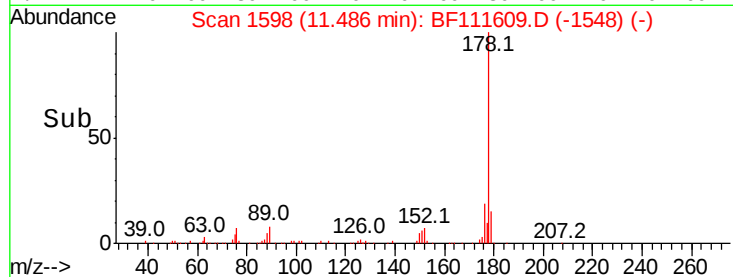
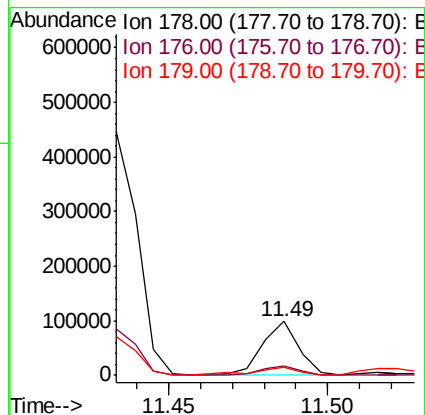
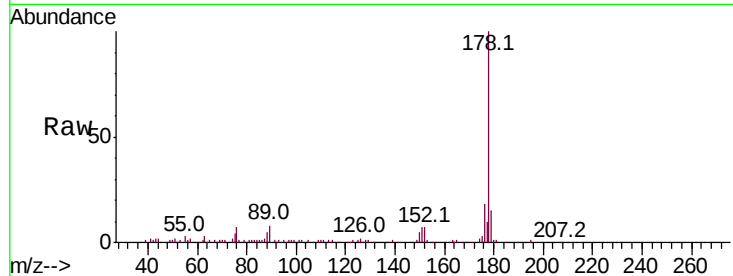
ClientSampleId :

OK-01-121818-B

Tot Ion:	178	Resp:	77775
Ion Ratio	Lower	Upper	
178	100		
176	18.5	17.2	25.8
179	15.1	13.8	20.8

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#75

Fluoranthene

Concen: 10.963 ng

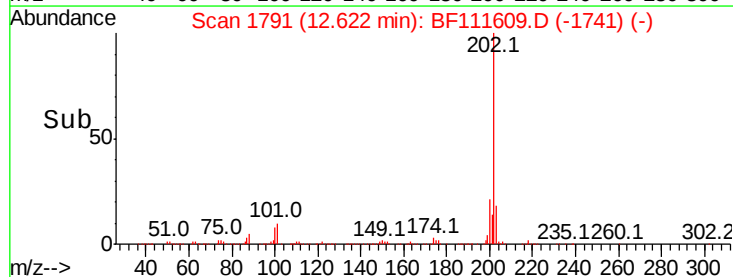
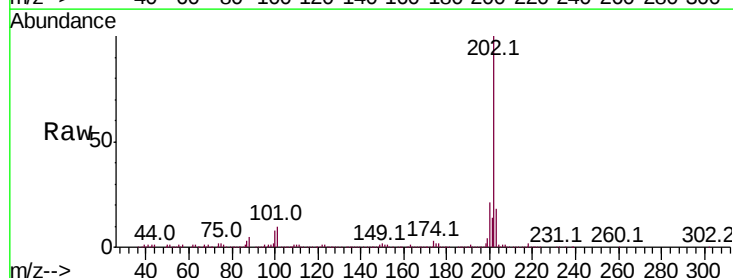
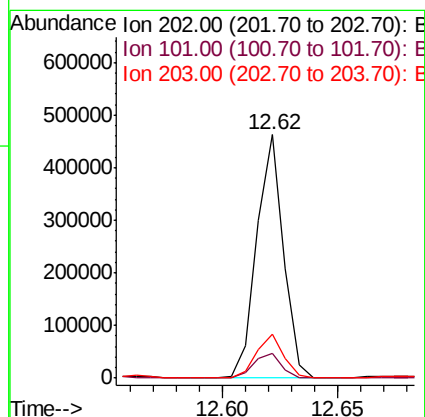
RT: 12.62 min Scan# 1791

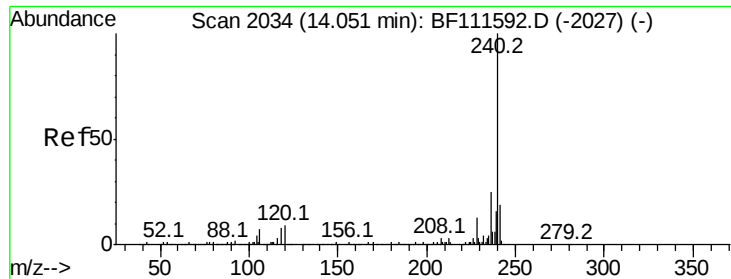
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion:	202	Resp:	372845
Ion Ratio	Lower	Upper	
202	100		
101	10.0	0.0	33.8
203	17.8	0.0	38.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_F

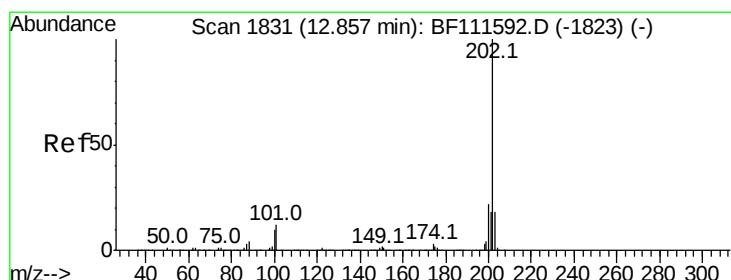
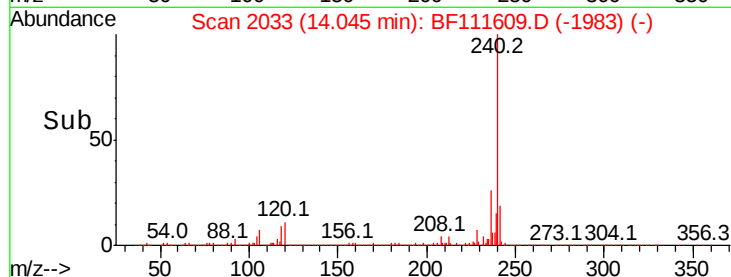
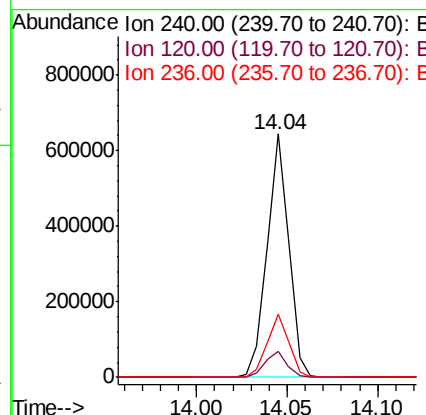
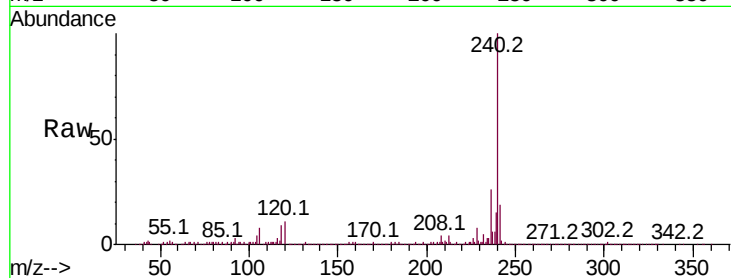
ClientSampleId :

OK-01-121818-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	12.2	18.2#
236	25.8	20.2	30.2

Manual Integrations
APPROVED

Sohil
12/20/2018 12:42:19 PM



#78

Pyrene

Concen: 9.865 ng

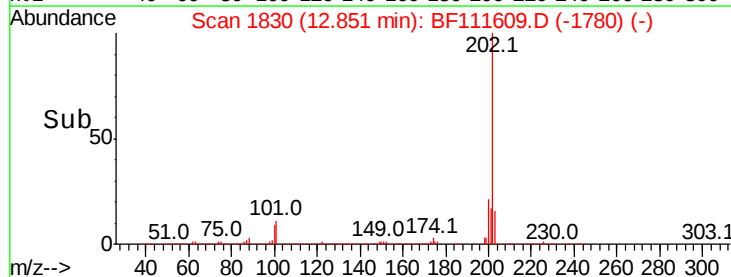
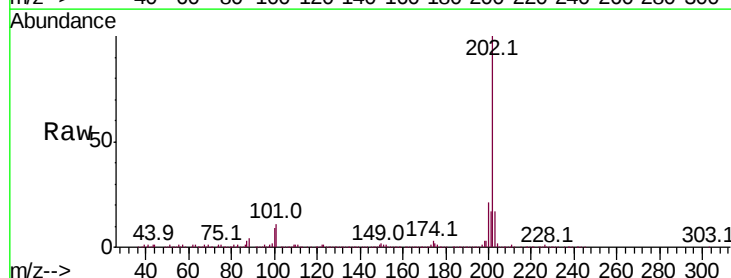
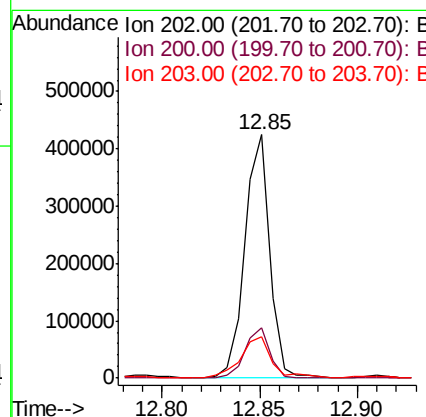
RT: 12.85 min Scan# 1830

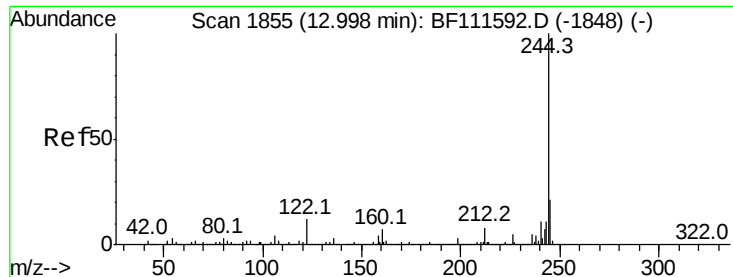
Delta R.T. -0.01 min

Lab File: BF111609.D

Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	19.0	28.4
203	16.8	15.2	22.8





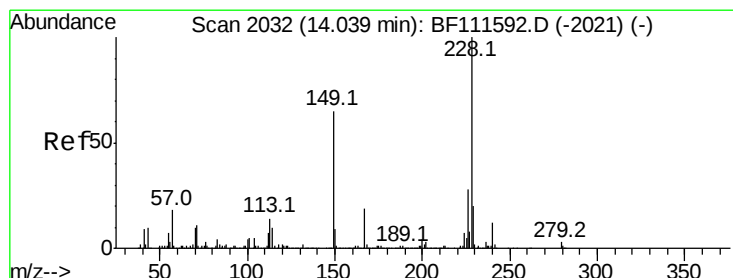
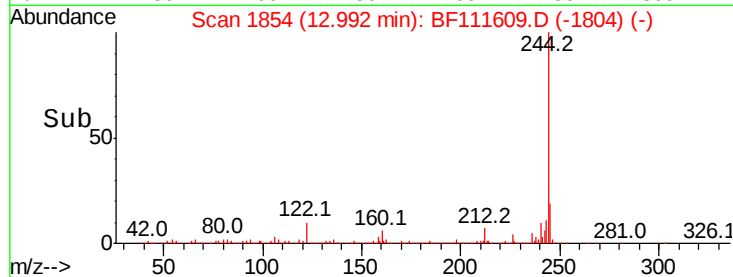
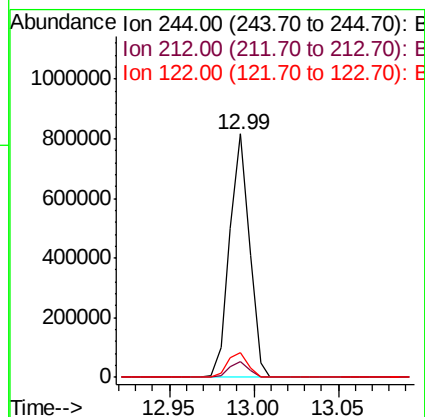
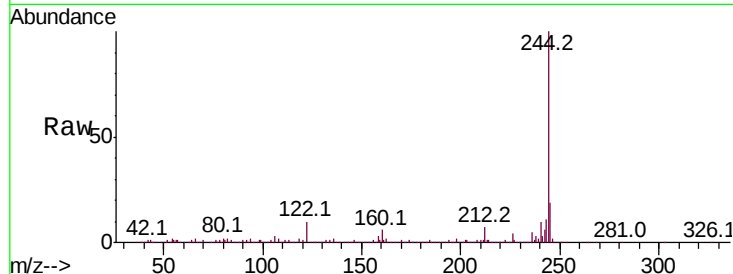
#79
 Terphenyl-d14
 Concen: 23.532 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF111609.D
 Acq: 20 Dec 2018 00:01

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-121818-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	10.1	13.1	19.7

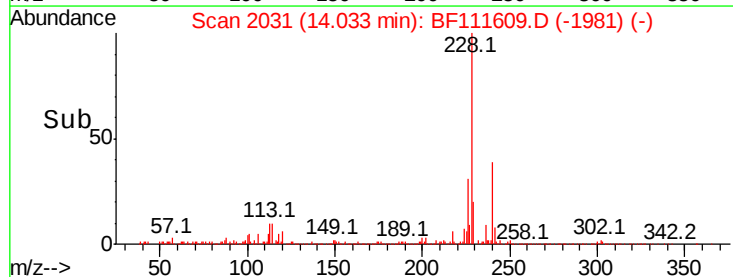
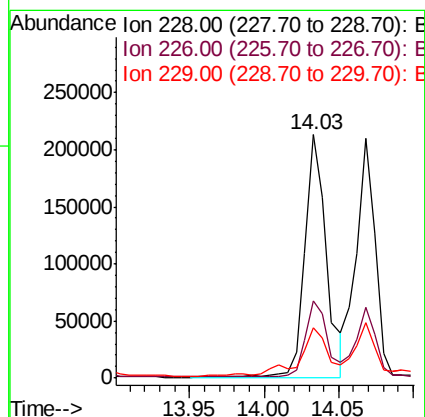
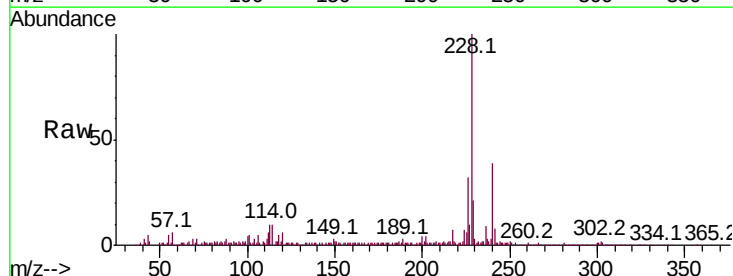
Manual Integrations
 APPROVED

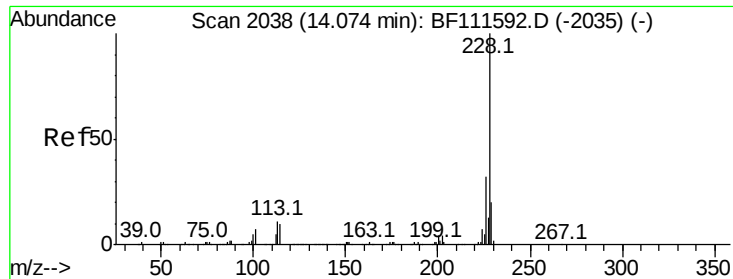
Sohil
 12/20/2018 12:42:19 PM



#81
 Benzo(a)anthracene
 Concen: 6.981 ng
 RT: 14.03 min Scan# 2031
 Delta R.T. -0.01 min
 Lab File: BF111609.D
 Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.6	34.0
229	20.9	16.3	24.5





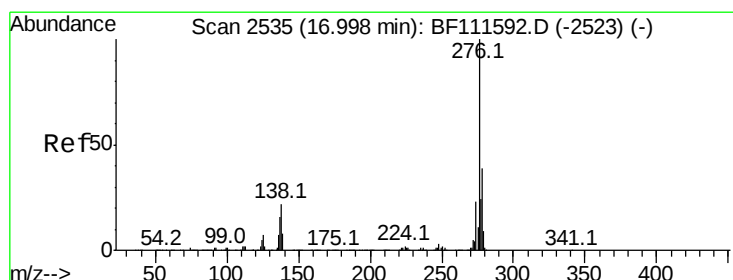
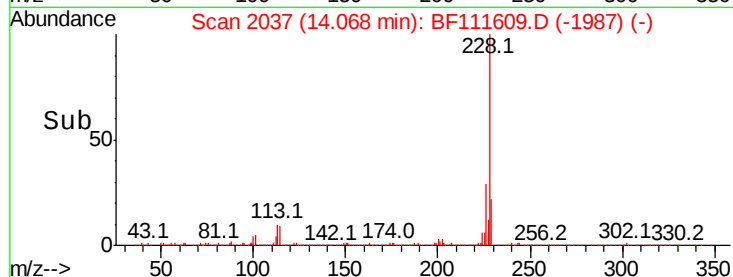
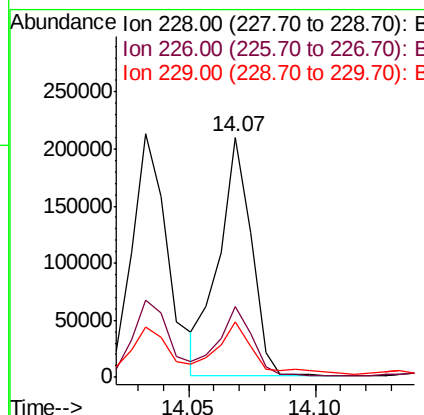
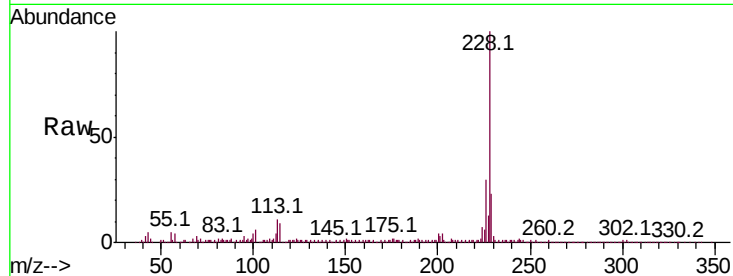
#83
Chrysene
Concen: 6.224 ng
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

Tot Ion:	228	Resp:	187058
Ion Ratio	Lower	Upper	
228	100		
226	29.7	25.3	37.9
229	23.0	17.2	25.8

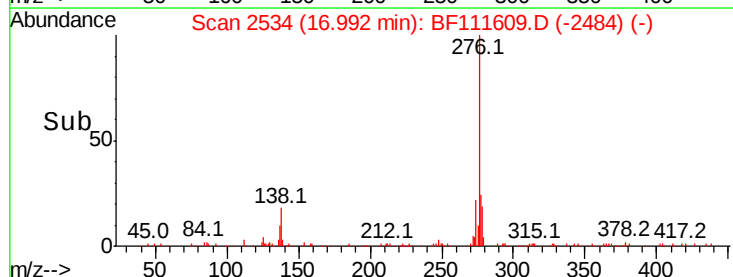
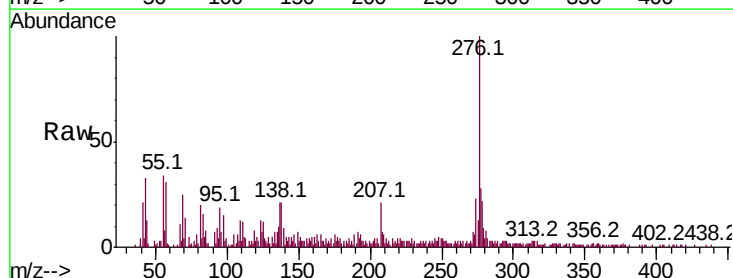
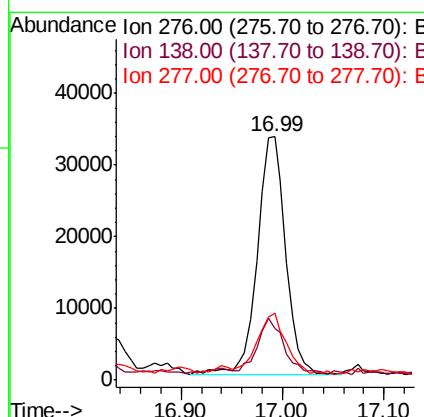
Manual Integrations
APPROVED

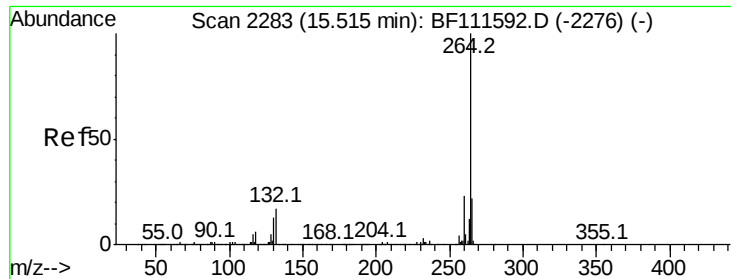
Sohil
12/20/2018 12:42:19 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.502 ng
RT: 16.99 min Scan# 2534
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Tgt Ion:	276	Resp:	63935
Ion Ratio	Lower	Upper	
276	100		
138	23.2	27.8	41.6#
277	25.6	20.1	30.1





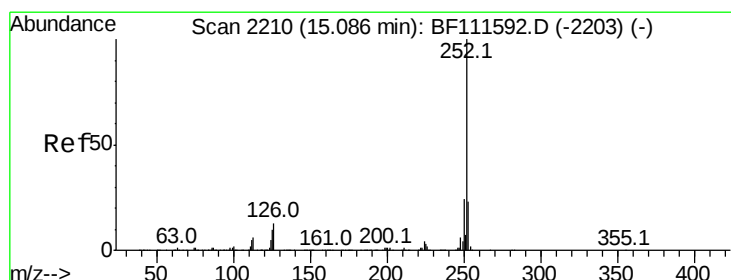
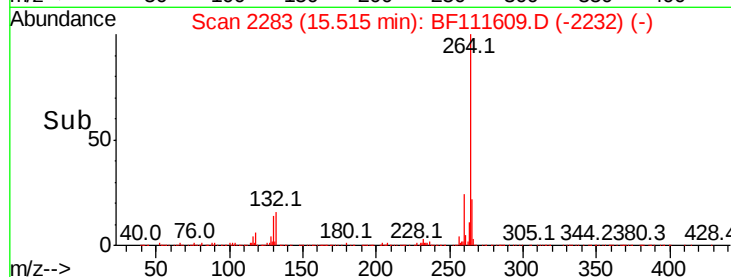
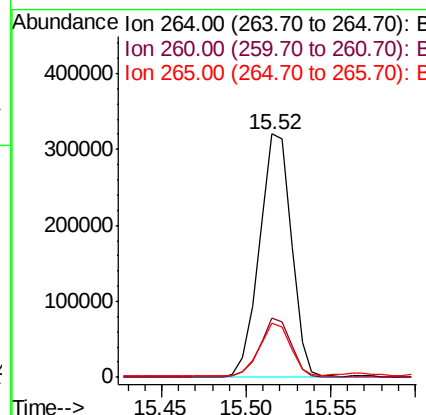
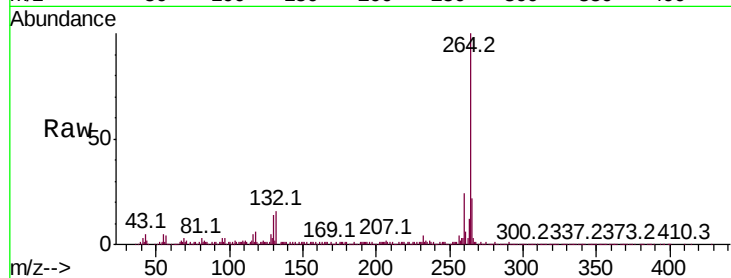
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.00 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.3	27.5
265	22.4	17.7	26.5

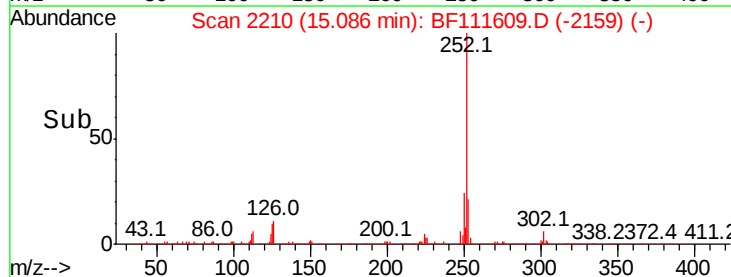
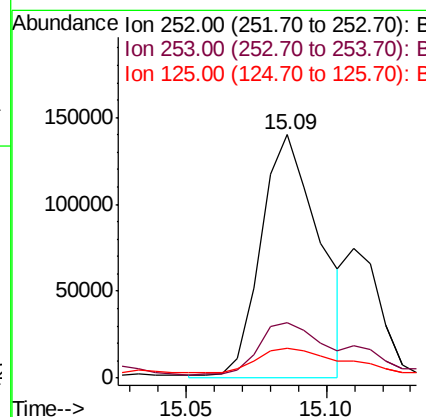
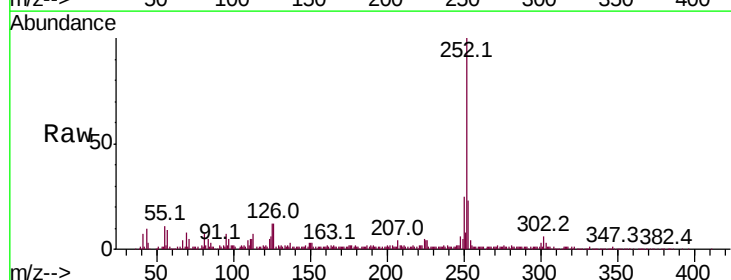
Manual Integrations
APPROVED

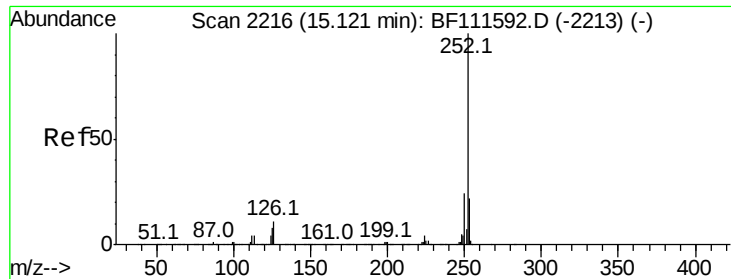
Sohil
12/20/2018 12:42:19 PM



#88
Benzo(b)fluoranthene
Concen: 8.233 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.00 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	12.0	10.4	15.6





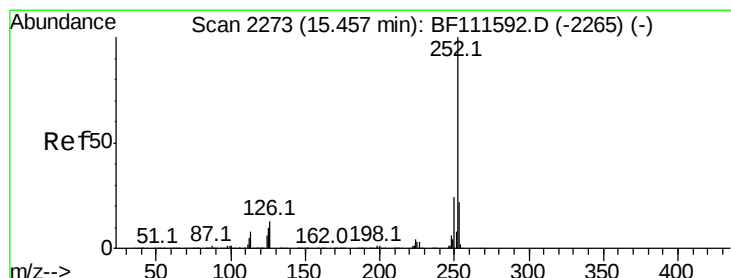
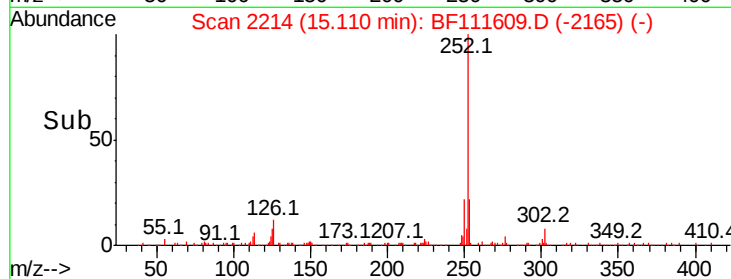
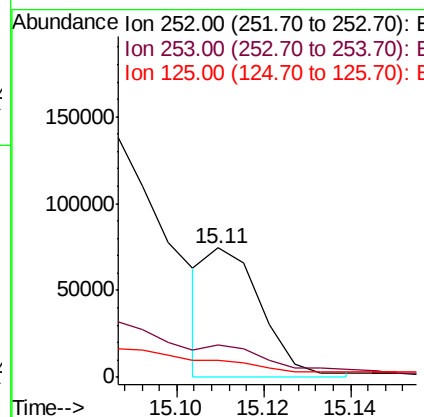
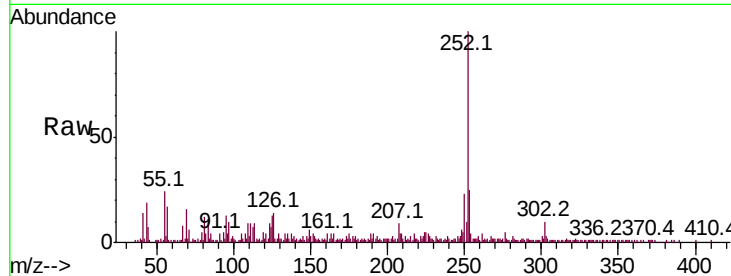
#89
Benzo(k)fluoranthene
Concen: 2.764 ng m
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_F
ClientSampleId :
OK-01-121818-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.1	27.1
125	12.8	9.8	14.8

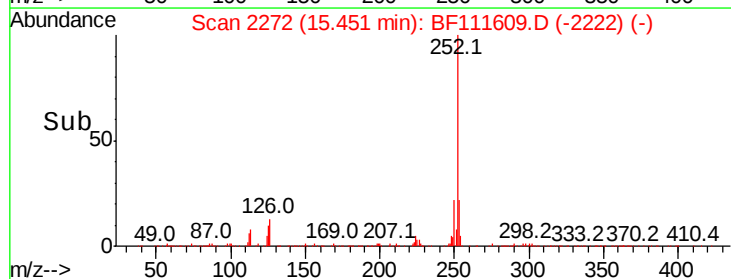
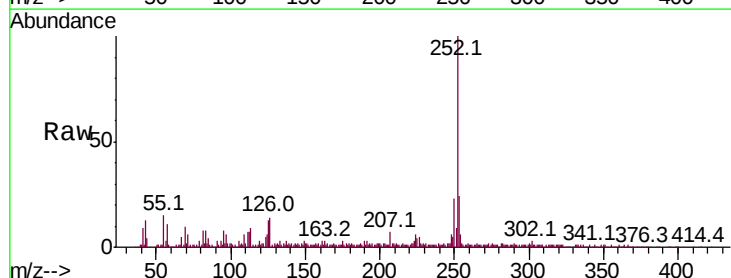
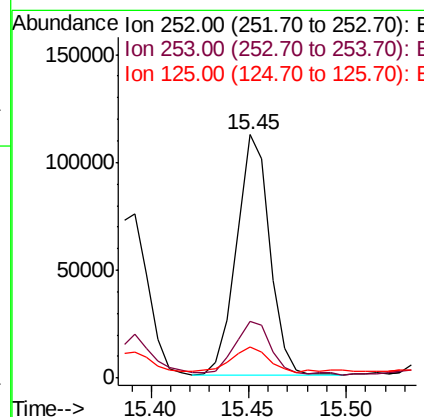
Manual Integrations
APPROVED

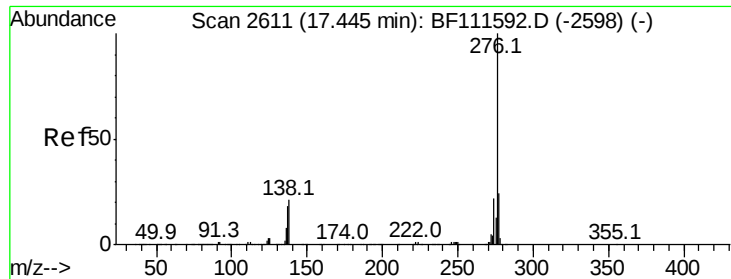
Sohil
12/20/2018 12:42:19 PM



#90
Benzo(a)pyrene
Concen: 5.906 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF111609.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.8
125	12.8	12.3	18.5





#92
 Benzo(a,h,i)perylene
 Concen: 3.068 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. -0.01 min
 Lab File: BF111609.D
 Acq: 20 Dec 2018 00:01

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-121818-B

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	27.8	19.2	28.8
138	23.0	24.9	37.3

Manual Integrations
 APPROVED

Sohil
 12/20/2018 12:42:19 PM

