

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
 Data File : BF121354.D
 Acq On : 20 Aug 2020 18:47
 Operator : JU/CG
 Sample : L3502-11 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081920

Manual Integrations
 APPROVED

mohammad
 8/21/2020 12:50:03 PM

Quant Time: Aug 21 01:14:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 20 04:56:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	141802	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	534542	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	255060	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	439879	20.00	ng	0.00
76) Chrysene-d12	13.85	240	356413	20.00	ng	0.00
86) Perylene-d12	15.27	264	340502	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	303752	35.12	ng	0.00
7) Phenol-d6	6.33	99	362577	32.84	ng	0.00
23) Nitrobenzene-d5	7.26	82	218496	23.12	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	84876	28.56	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	441437	23.94	ng	0.00
79) Terphenyl-d14	12.79	244	394898	21.65	ng	0.00
Target Compounds						
49) Acenaphthylene	9.59	152	143680	6.142	ng	98
50) Dimethylphthalate	9.45	163	75574	4.073	ng	99
71) Phenanthrene	11.23	178	149248	6.556	ng	98
72) Anthracene	11.29	178	83235	3.797	ng	99
75) Fluoranthene	12.42	202	304510	12.323	ng	99
78) Pyrene	12.65	202	324310	12.113	ng	99
81) Benzo(a)anthracene	13.84	228	195343m	8.824	ng	
83) Chrysene	13.87	228	201424m	8.897	ng	
87) Indeno(1,2,3-cd)pyrene	16.63	276	138493	6.663	ng	96
88) Benzo(b)fluoranthene	14.87	252	278823m	12.675	ng	
89) Benzo(k)fluoranthene	14.89	252	92491m	4.776	ng	
90) Benzo(a)pyrene	15.20	252	198481	10.443	ng	# 94
91) Dibenzo(a,h)anthracene	16.63	278	42176	2.475	ng	# 74
92) Benzo(a,h,i)perylene	17.04	276	142398	8.547	ng	97

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

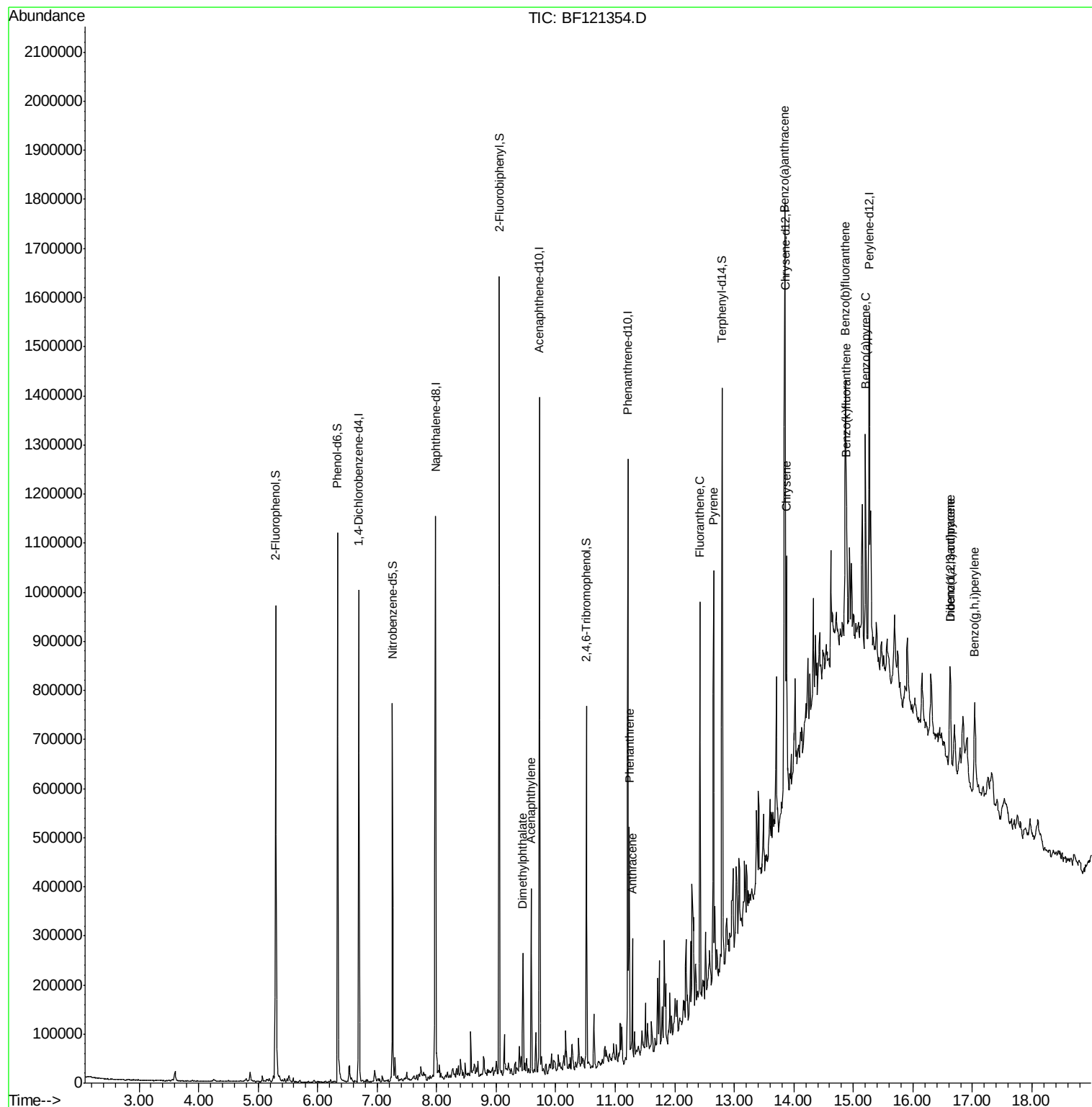
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
Data File : BF121354.D
Acq On : 20 Aug 2020 18:47
Operator : JU/CG
Sample : L3502-11 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

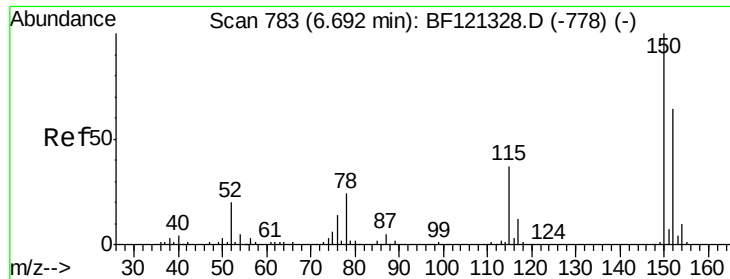
Instrument :
BNA_F
ClientSampleId :
OK-02-081920

Manual Integrations
APPROVED

mohammad
8/21/2020 12:50:03 PM

Quant Time: Aug 21 01:14:01 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 20 04:56:10 2020
Response via : Initial Calibration





#1

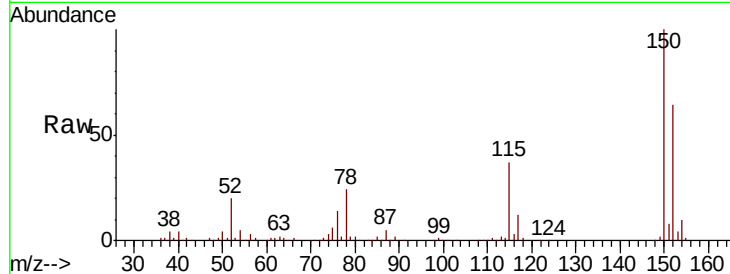
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081920

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.8	187.2
115	58.8	46.1	69.1

Manual Integrations
 APPROVED

mohammad
 8/21/2020 12:50:03 PM

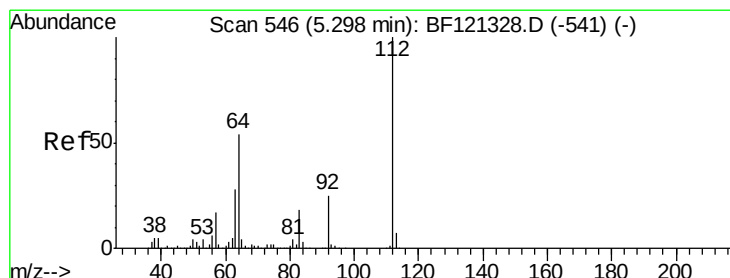
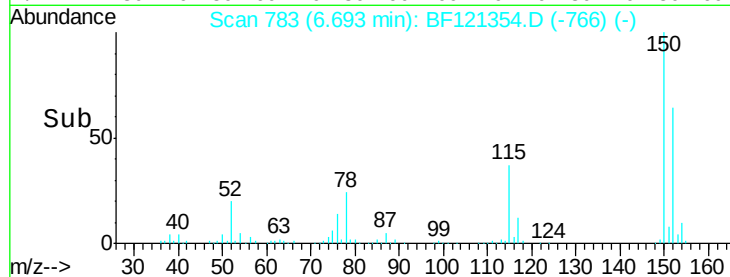
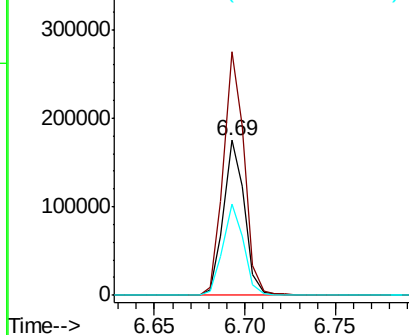


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

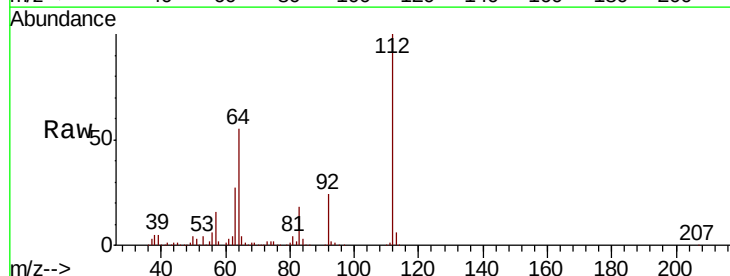
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 35.125 ng
 RT: 5.30 min Scan# 546
 Delta R.T. 0.00 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	43.5	65.3
63	27.3	22.0	33.0

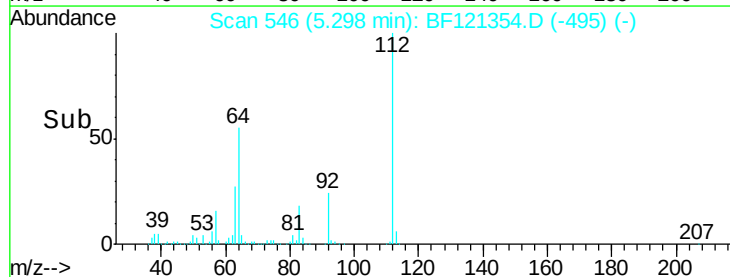
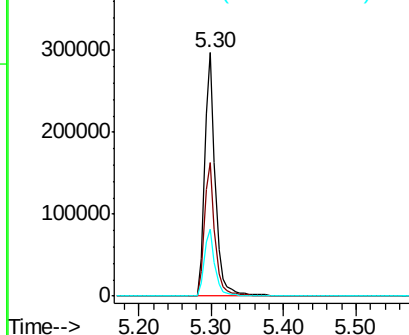


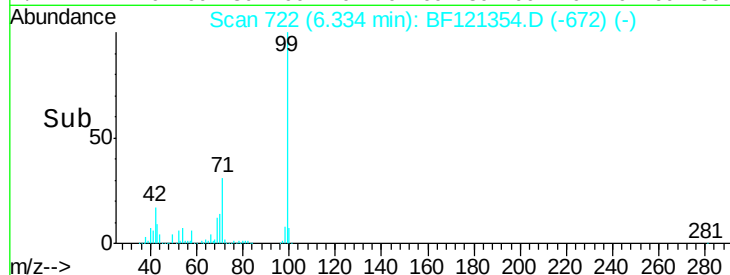
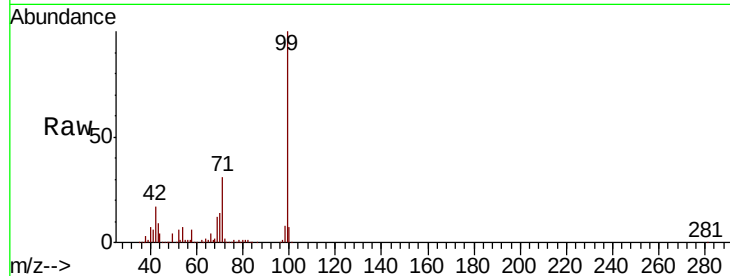
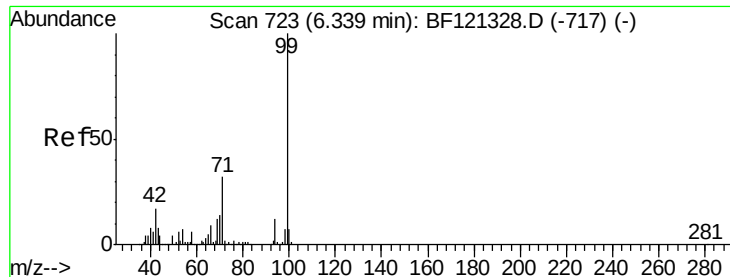
Abundance

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: 32.843 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		362577		
42	17.5	13.5	20.3		
71	31.1	25.2	37.8		

Instrument :

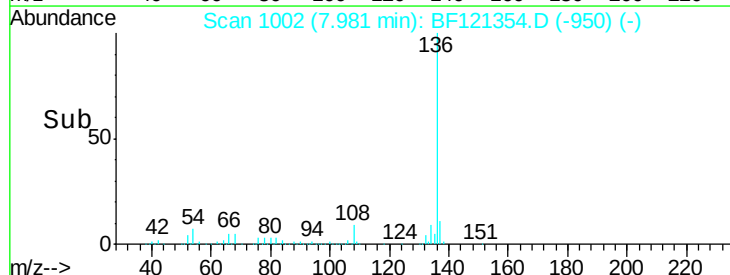
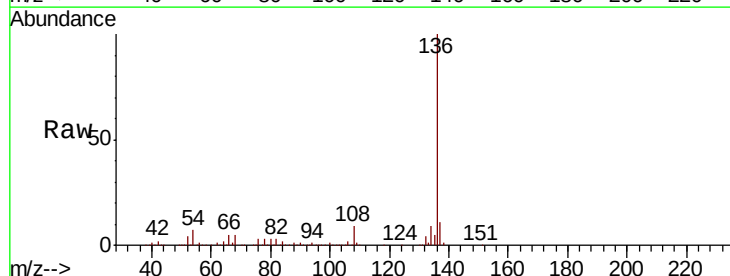
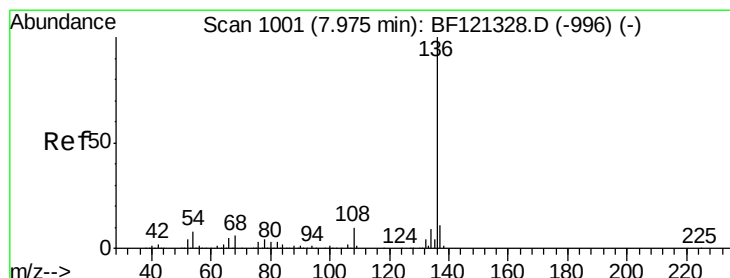
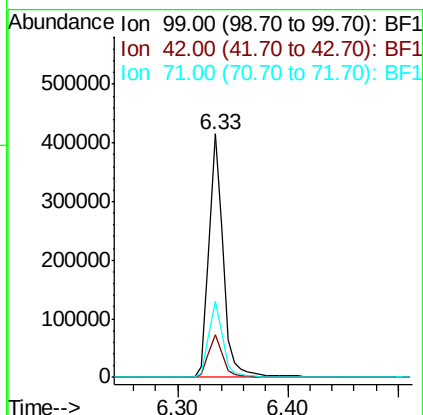
BNA_F

ClientSampleId :

OK-02-081920

Manual Integrations
APPROVED

mohammad
8/21/2020 12:50:03 PM



#21

Naphthalene-d8

Concen: 20.000 ng

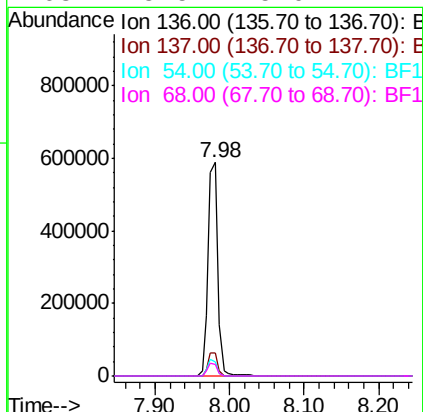
RT: 7.98 min Scan# 1002

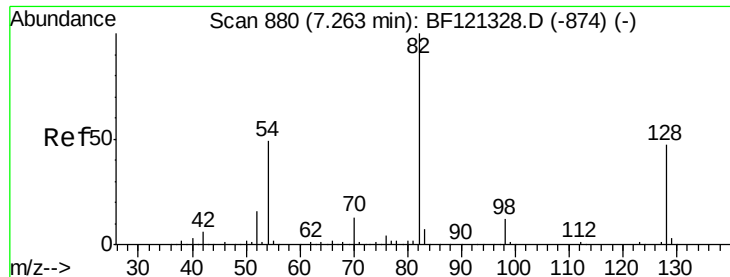
Delta R.T. 0.01 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		534542		
137	10.9	8.9	13.3		
54	6.8	6.1	9.1		
68	5.5	5.0	7.4		





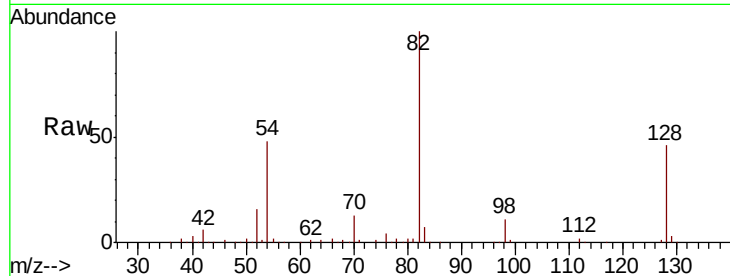
#23
Nitrobenzene-d5
Concen: 23.118 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleId :
OK-02-081920

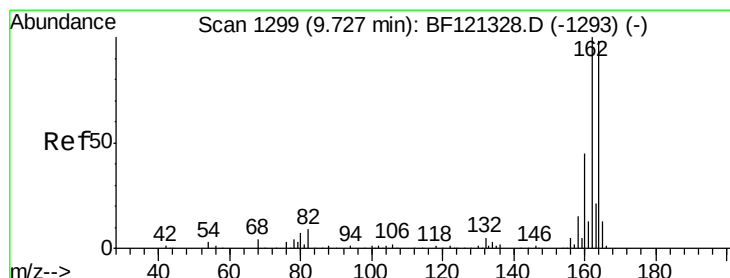
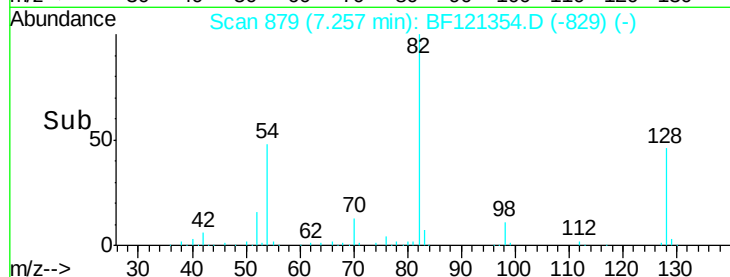
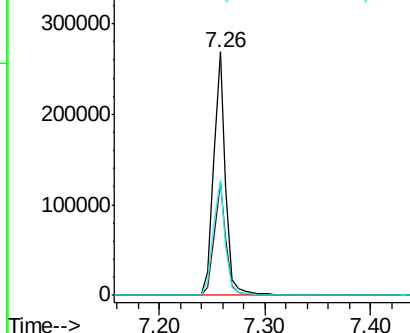
Tot Ion	82	Resp	218496
Ion Ratio	100	Lower	Upper
82	100		
128	46.2	37.9	56.9
54	47.7	39.0	58.4

Manual Integrations
APPROVED

mohammad
8/21/2020 12:50:03 PM



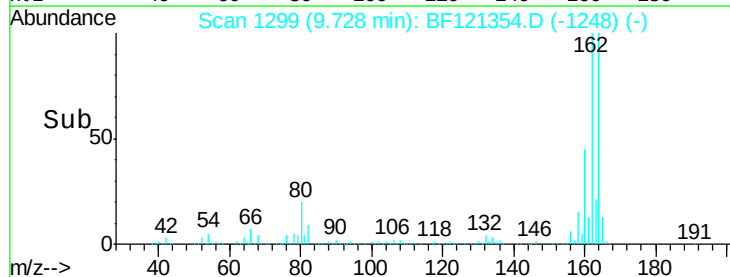
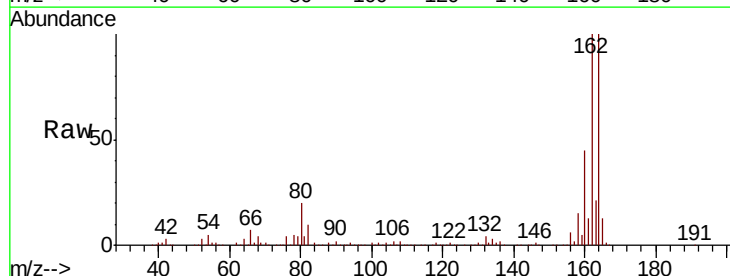
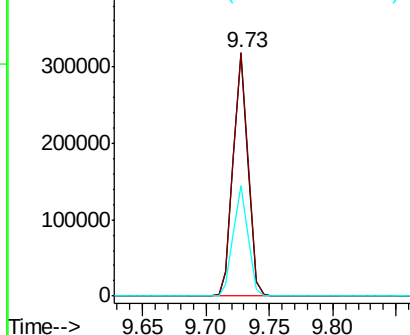
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

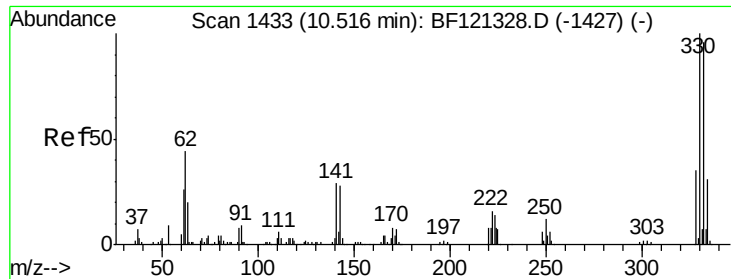


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion	164	Resp	255060
Ion Ratio	100	Lower	Upper
164	100		
162	100.3	81.7	122.5
160	45.5	37.0	55.4

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: 28.556 ng

RT: 10.52 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Instrument :

BNA_F

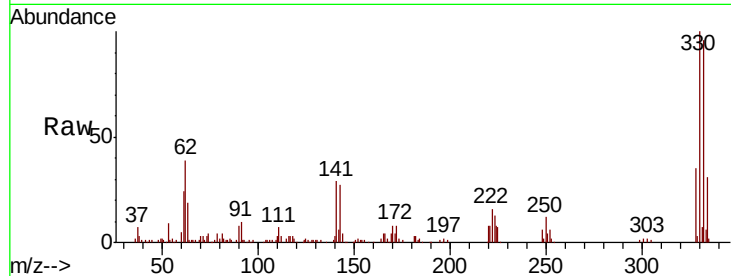
ClientSampleId :

OK-02-081920

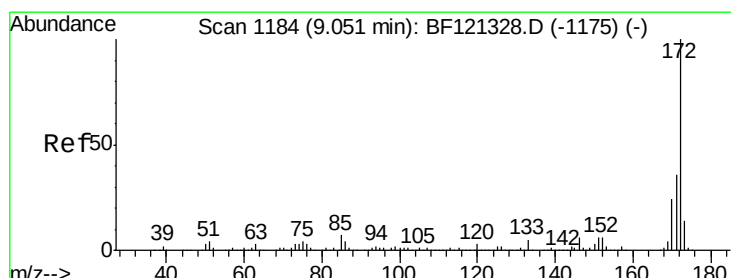
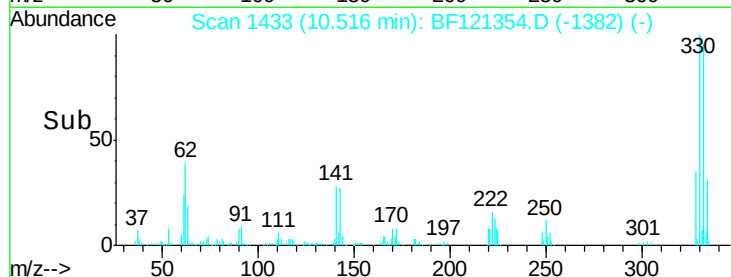
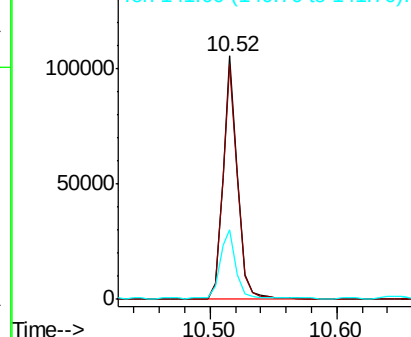
Tot Ion:	330	Resp:	84876
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.9	115.3
141	31.0	22.8	34.2

Manual Integrations
APPROVED

mohammad
8/21/2020 12:50:03 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: 23.938 ng

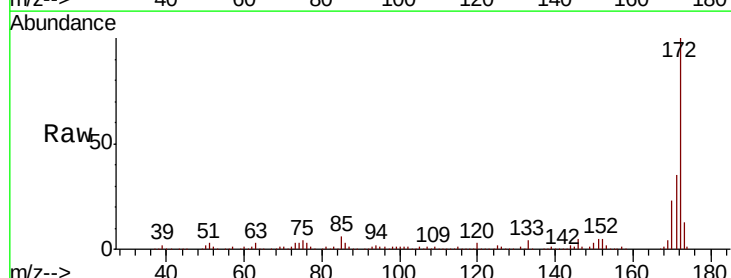
RT: 9.05 min Scan# 1184

Delta R.T. 0.00 min

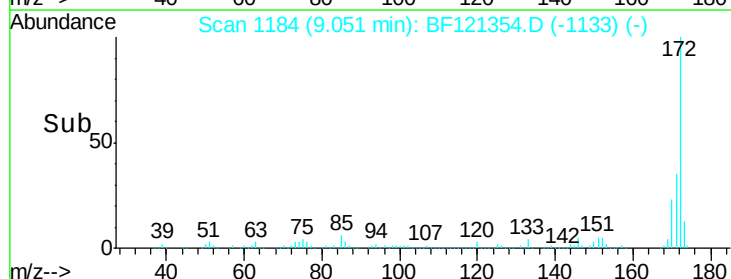
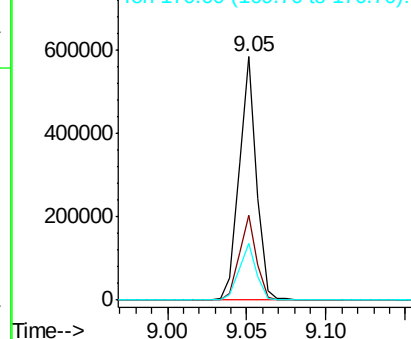
Lab File: BF121354.D

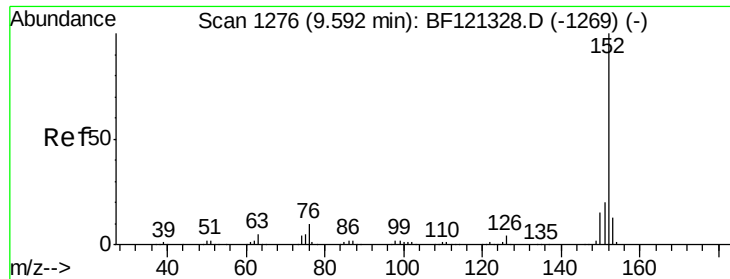
Acq: 20 Aug 2020 18:47

Tgt Ion:	172	Resp:	441437
Ion Ratio	Lower	Upper	
172	100		
171	35.1	29.0	43.6
170	23.4	19.4	29.2



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





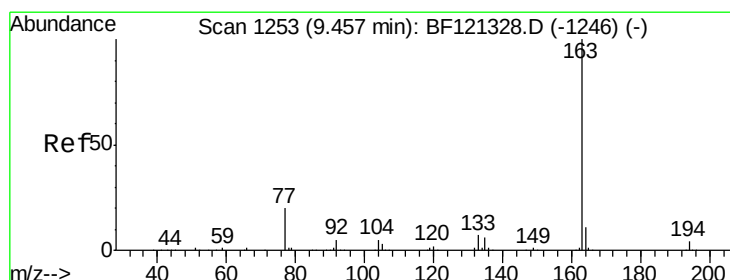
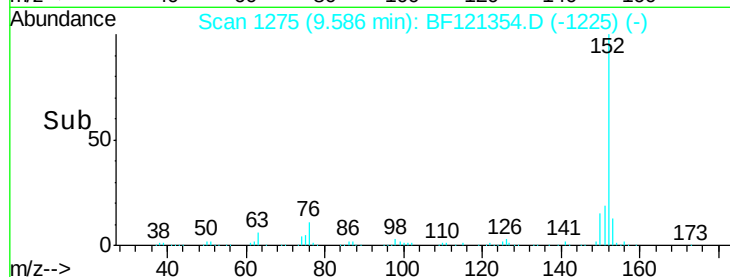
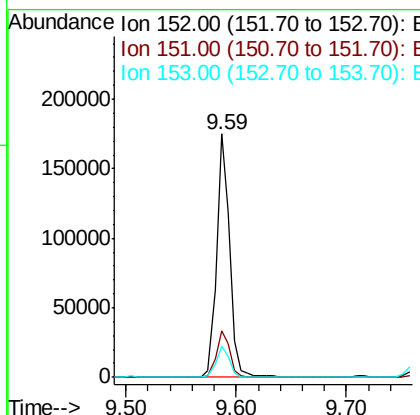
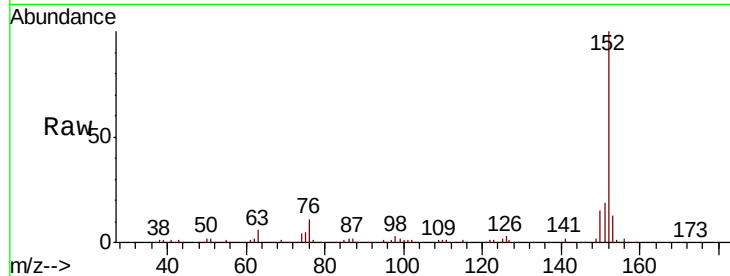
#49
Acenaphthylene
Concen: 6.142 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleId :
OK-02-081920

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.4	24.6
153	13.0	10.6	16.0

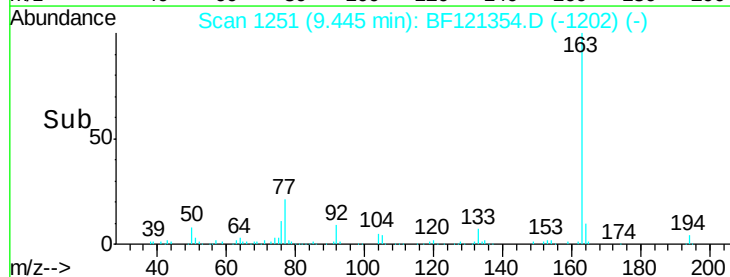
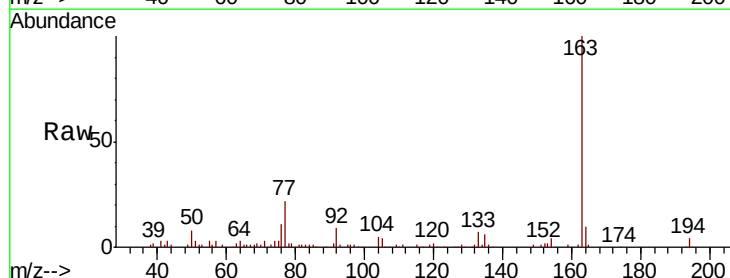
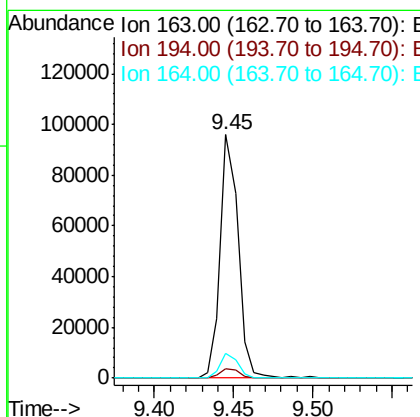
Manual Integrations
APPROVED

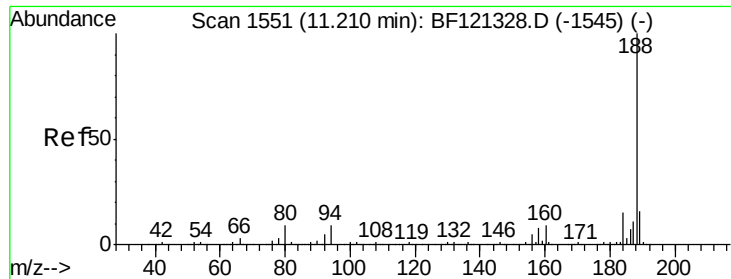
mohammad
8/21/2020 12:50:03 PM



#50
Dimethylphthalate
Concen: 4.073 ng
RT: 9.45 min Scan# 1251
Delta R.T. -0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.0	8.4	12.6





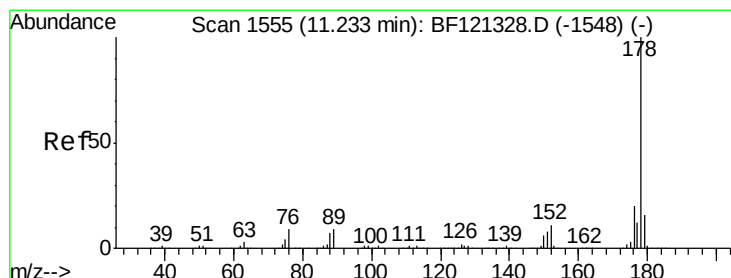
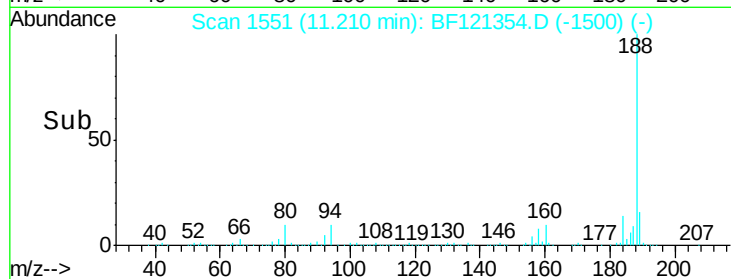
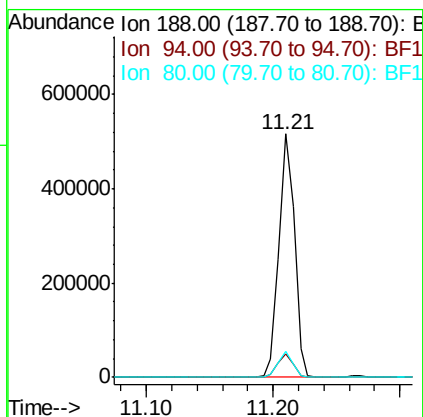
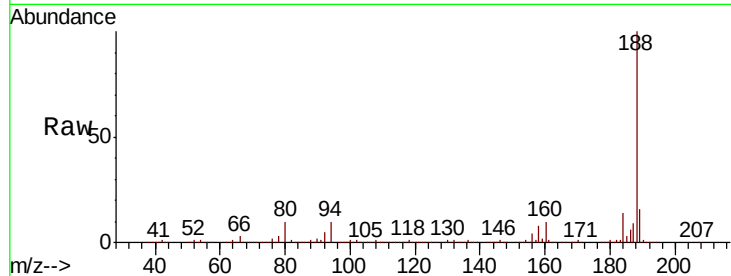
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. 0.00 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleId :
OK-02-081920

Tot Ion	Ratio	Resp	Lower	Upper
188	100	439879		
94	9.9		7.2	10.8
80	10.4		7.4	11.0

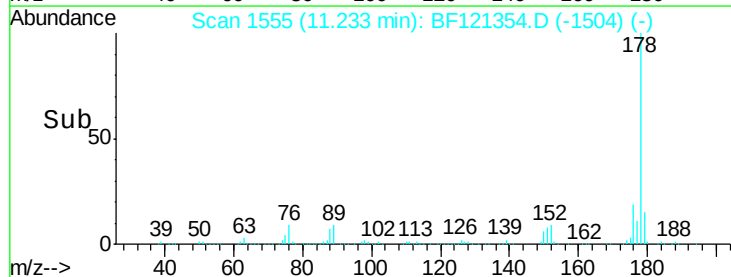
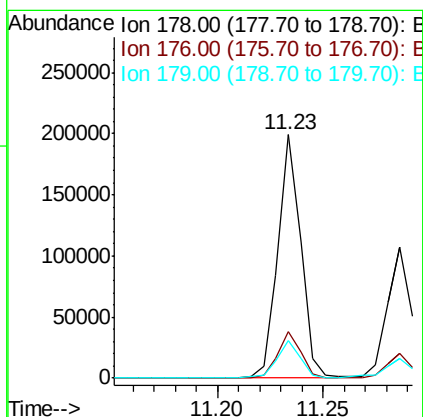
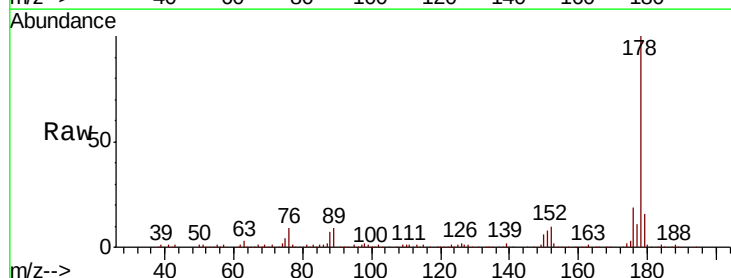
Manual Integrations
APPROVED

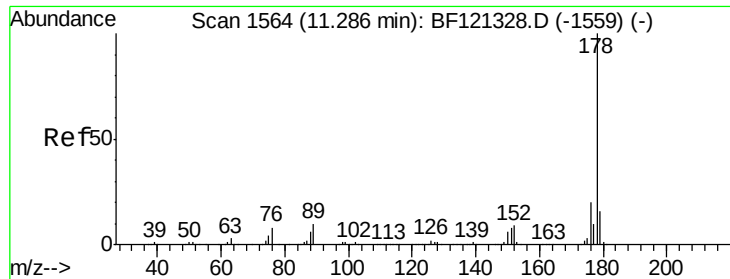
mohammad
8/21/2020 12:50:03 PM



#71
Phenanthrene
Concen: 6.556 ng
RT: 11.23 min Scan# 1555
Delta R.T. 0.00 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	149248		
176	19.0		16.0	24.0
179	15.5		12.8	19.2





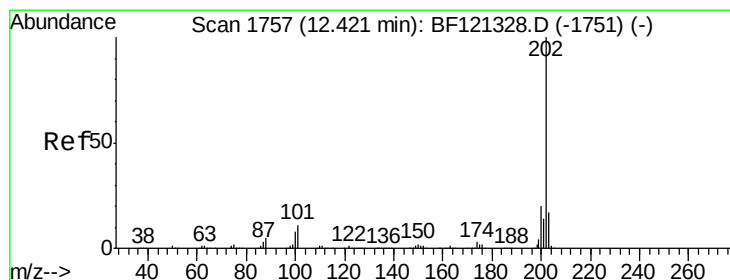
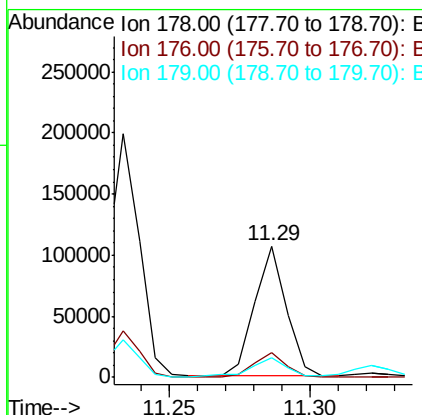
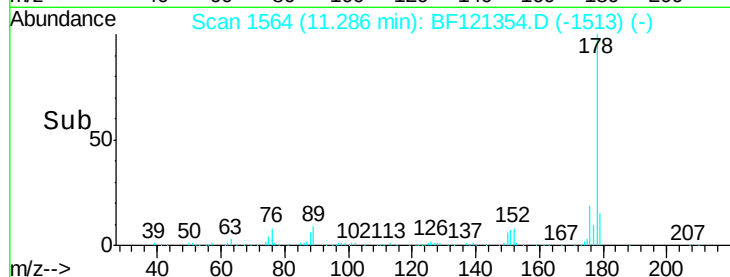
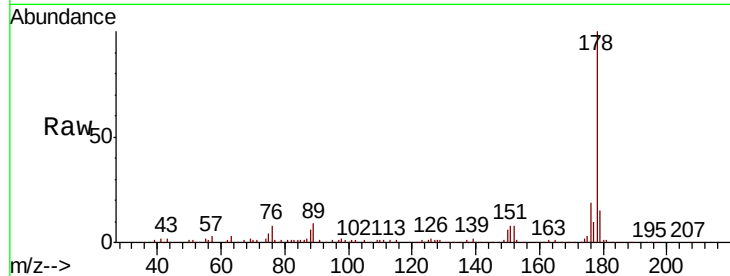
#72
 Anthracene
 Concen: 3.797 ng
 RT: 11.29 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081920

Tot Ion:	178	Resp:	83235
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.6	23.4
179	15.3	12.8	19.2

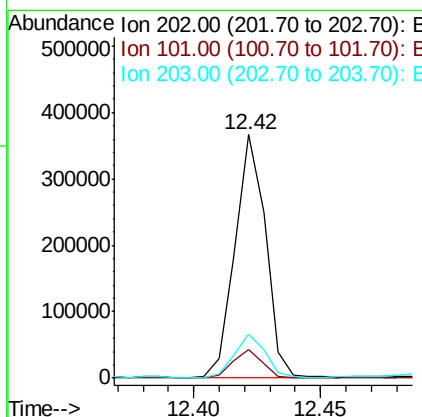
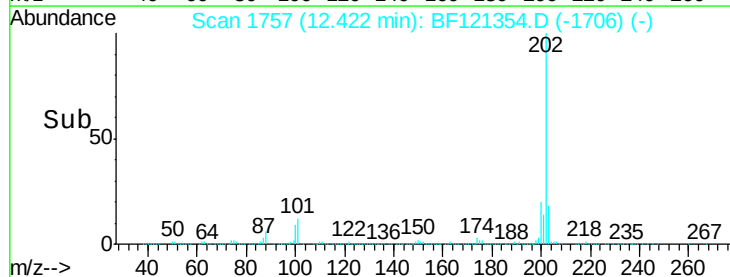
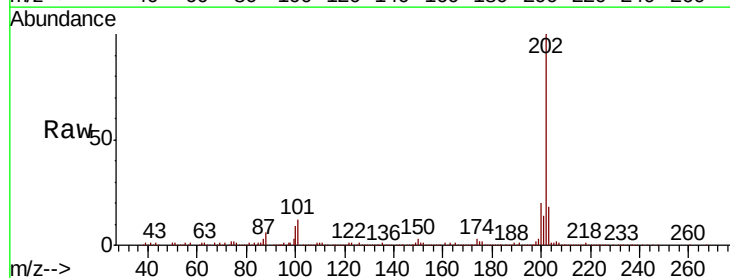
Manual Integrations
 APPROVED

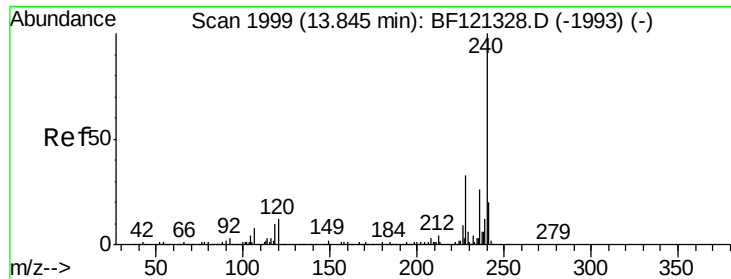
mohammad
 8/21/2020 12:50:03 PM



#75
 Fluoranthene
 Concen: 12.323 ng
 RT: 12.42 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Tgt Ion:	202	Resp:	304510
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	30.6
203	17.8	0.0	37.5





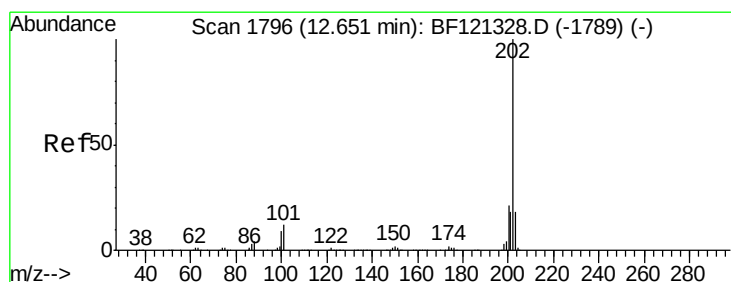
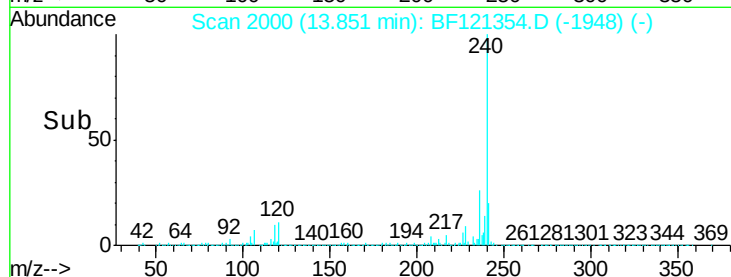
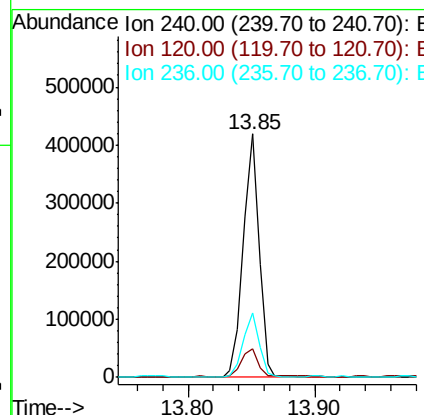
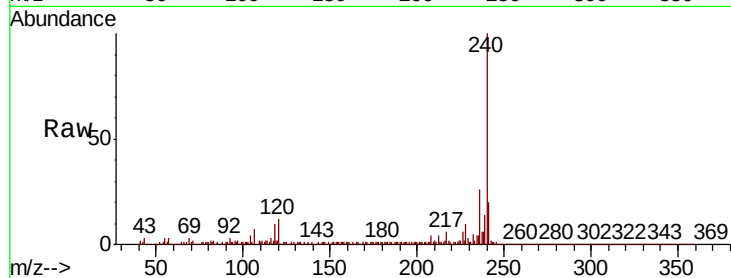
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.85 min Scan# 2000
Delta R.T. 0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleId :
OK-02-081920

Tot Ion	Ratio	Resp	Lower	Upper
240	100	356413		
120	11.6	9.6	14.4	
236	26.3	20.6	31.0	

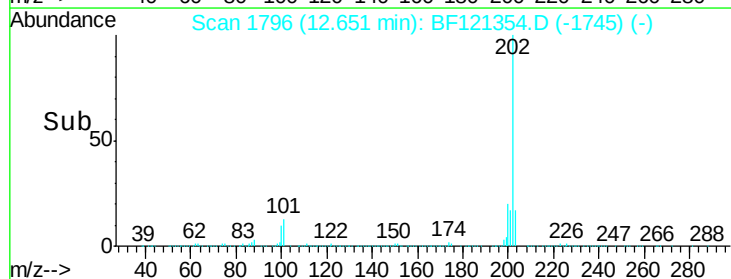
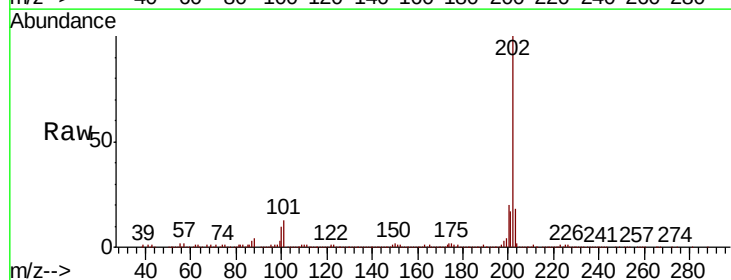
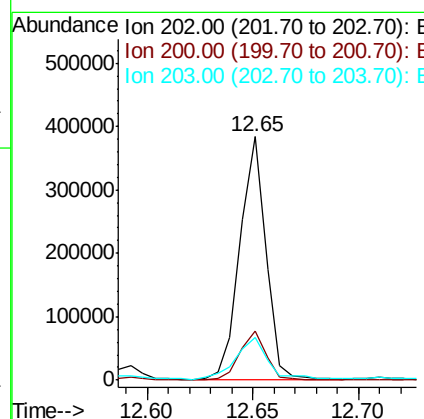
Manual Integrations
APPROVED

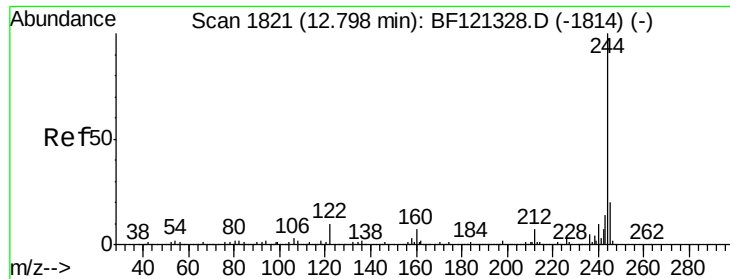
mohammad
8/21/2020 12:50:03 PM



#78
Pyrene
Concen: 12.113 ng
RT: 12.65 min Scan# 1796
Delta R.T. 0.00 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	324310		
200	20.1	16.6	24.8	
203	17.8	14.2	21.2	





#79

Terphenyl-d14

Concen: 21.652 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Instrument :

BNA_F

ClientSampleId :

OK-02-081920

Tot Ion:244 Resp: 394898

Ion Ratio Lower Upper

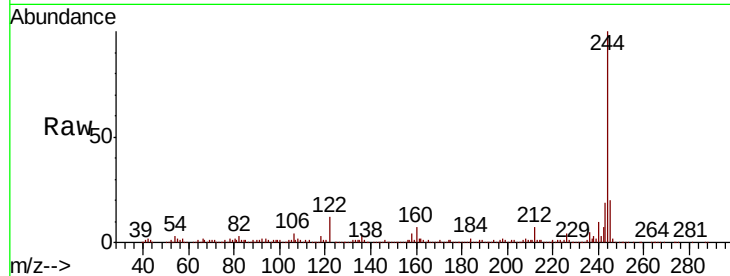
244 100

212 6.7 5.4 8.0

122 12.2 7.8 11.8#

Manual Integrations
APPROVED

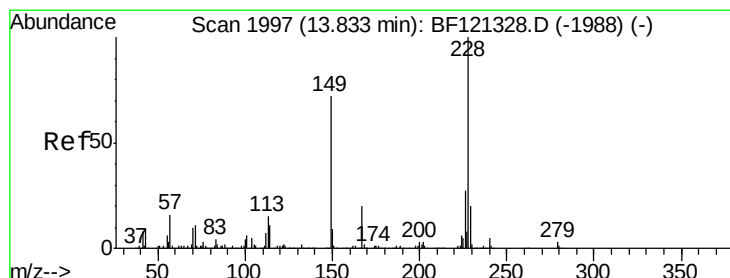
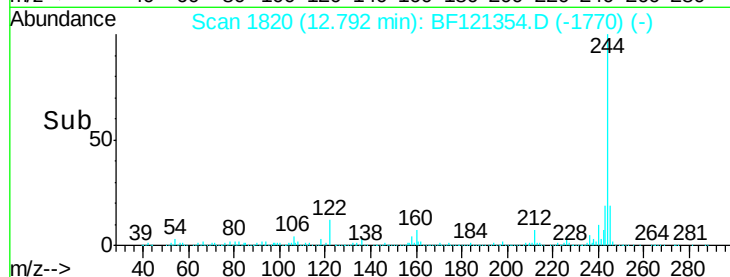
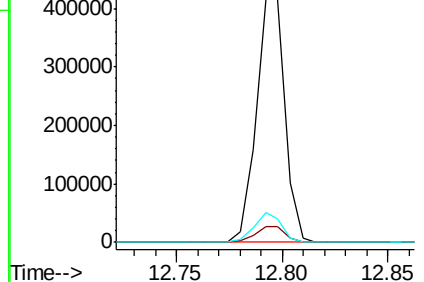
mohammad
8/21/2020 12:50:03 PM



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: 8.824 ng m

RT: 13.84 min Scan# 1998

Delta R.T. 0.01 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

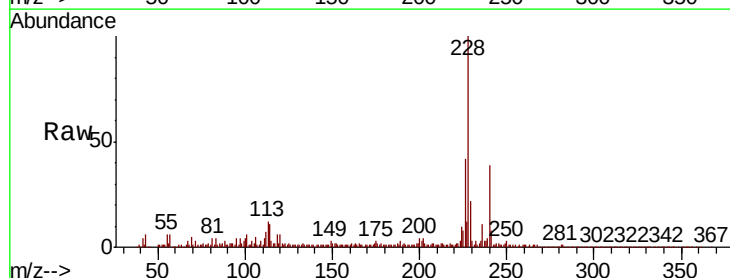
Tgt Ion:228 Resp: 195343

Ion Ratio Lower Upper

228 100

226 42.3 21.8 32.6#

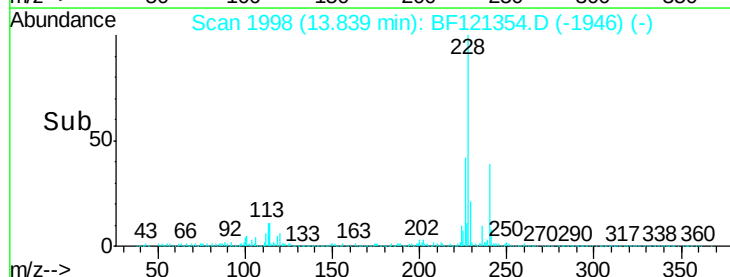
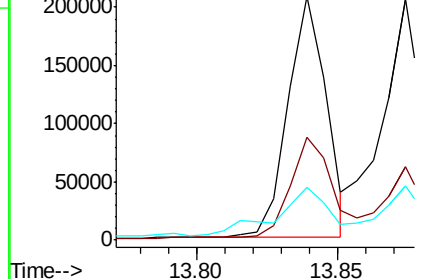
229 21.7 15.8 23.8

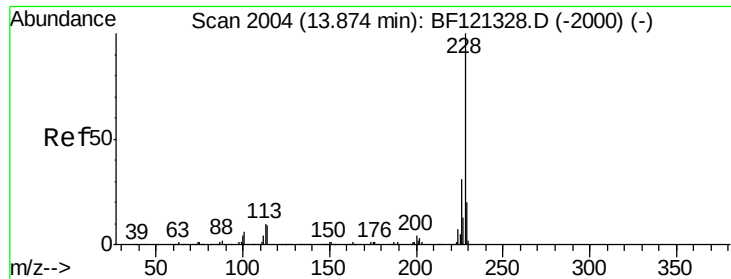


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





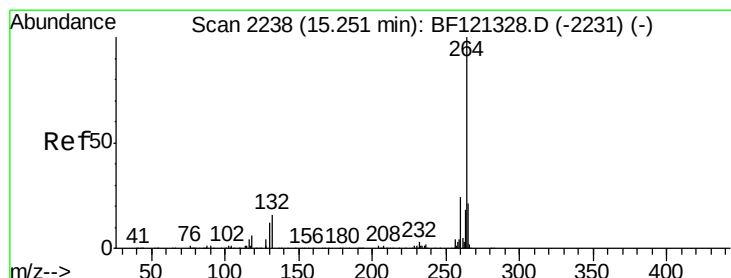
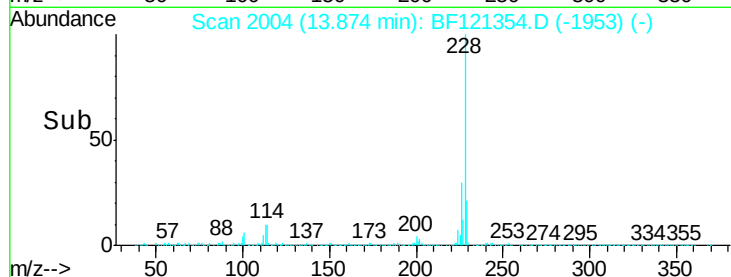
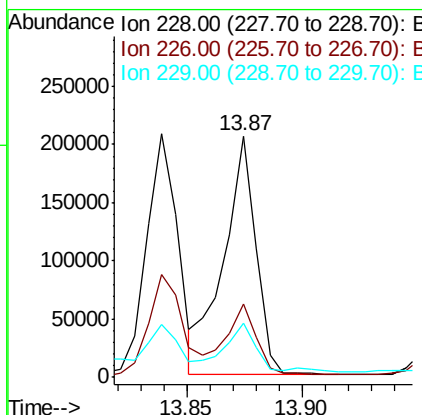
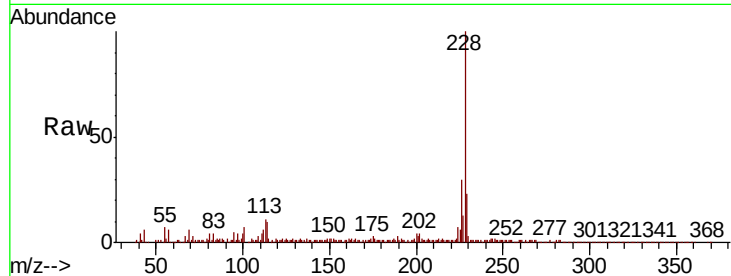
#83
Chrysene
Concen: 8.897 ng/mL
RT: 13.87 min Scan# 2004
Delta R.T. 0.00 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleID :
OK-02-081920

Tot Ion:	228	Resp:	201424
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.6	36.8
229	22.7	15.9	23.9

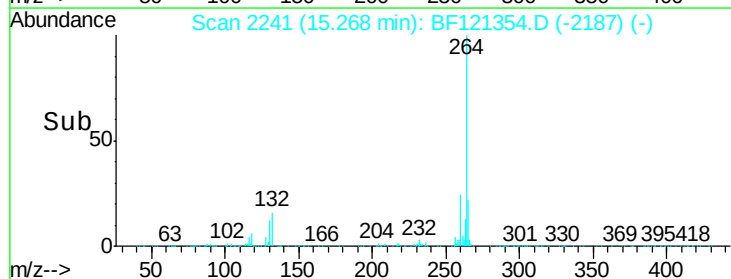
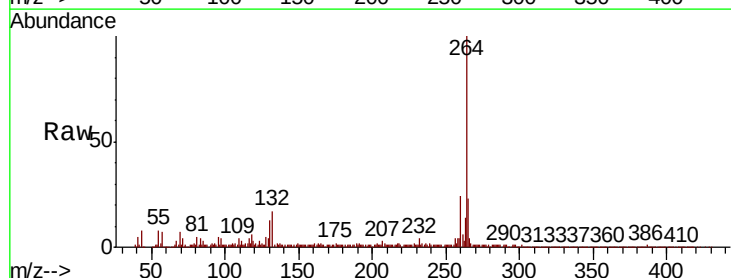
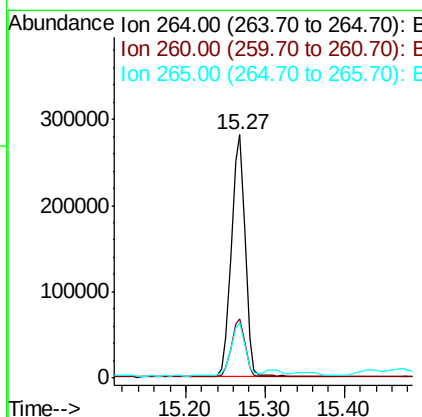
Manual Integrations
APPROVED

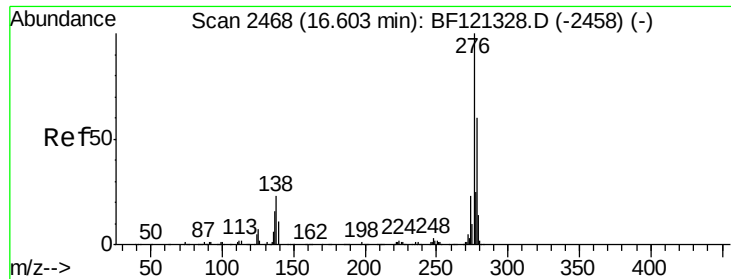
mohammad
8/21/2020 12:50:03 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion:	264	Resp:	340502
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.5	29.3
265	22.9	17.1	25.7





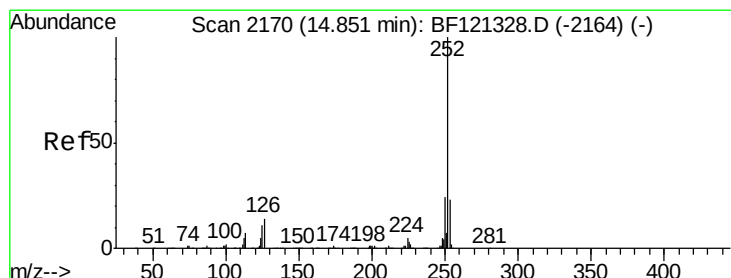
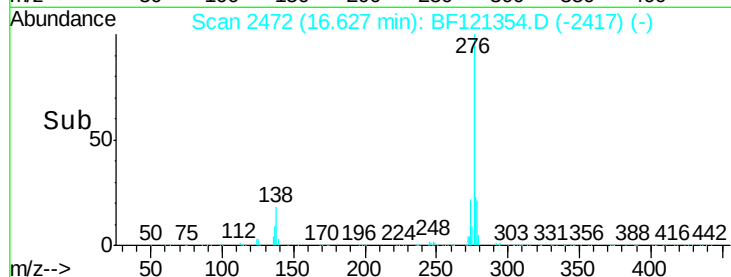
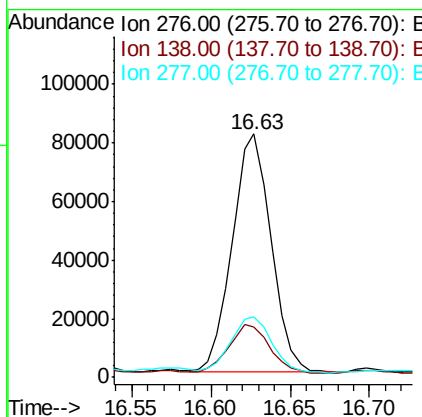
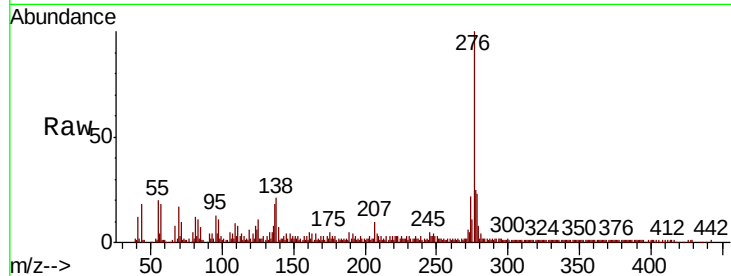
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 6.663 ng
 RT: 16.63 min Scan# 2472
 Delta R.T. 0.02 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-081920

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.1	19.4	29.0
277	25.5	19.9	29.9

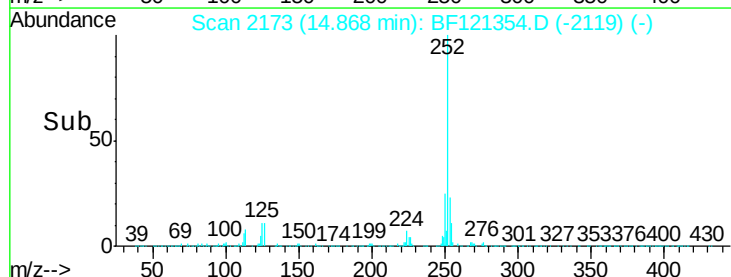
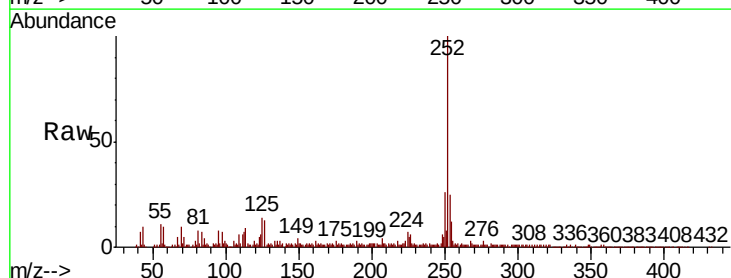
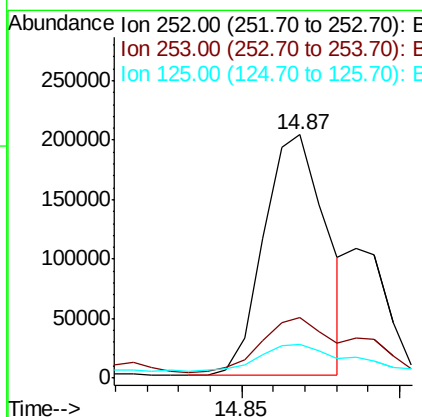
Manual Integrations
 APPROVED

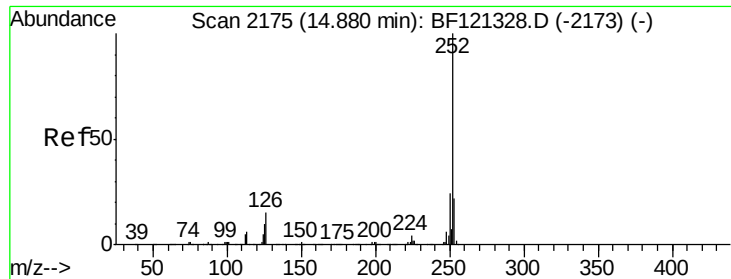
mohammad
 8/21/2020 12:50:03 PM



#88
 Benzo(b)fluoranthene
 Concen: 12.675 ng m
 RT: 14.87 min Scan# 2173
 Delta R.T. 0.02 min
 Lab File: BF121354.D
 Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.0	27.0
125	13.7	8.6	12.8#





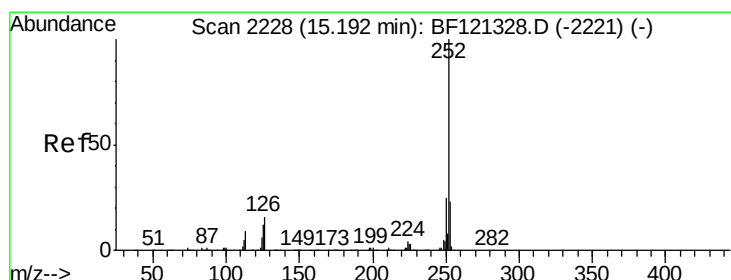
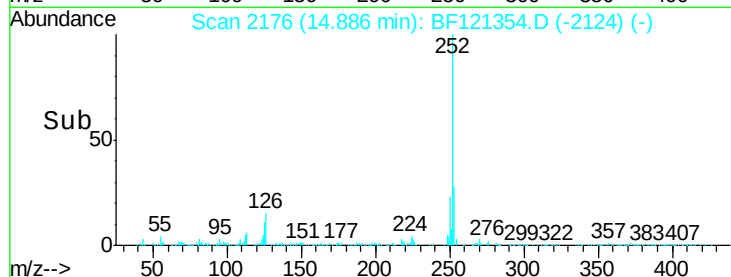
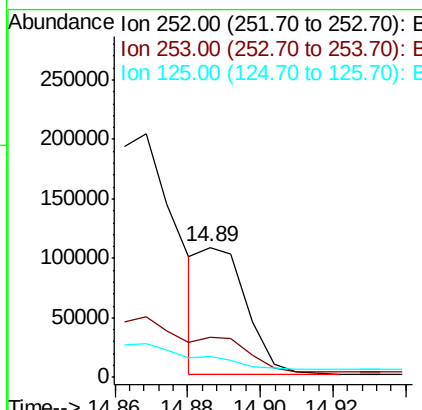
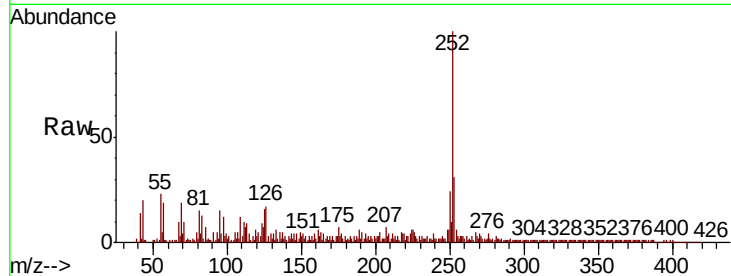
#89
Benzo(k)fluoranthene
Concen: 4.776 ng m
RT: 14.89 min Scan# 2176
Delta R.T. 0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Instrument :
BNA_F
ClientSampleId :
OK-02-081920

Tot Ion	Ratio	Lower	Upper
252	100		
253	31.2	17.9	26.9#
125	15.8	8.6	12.8#

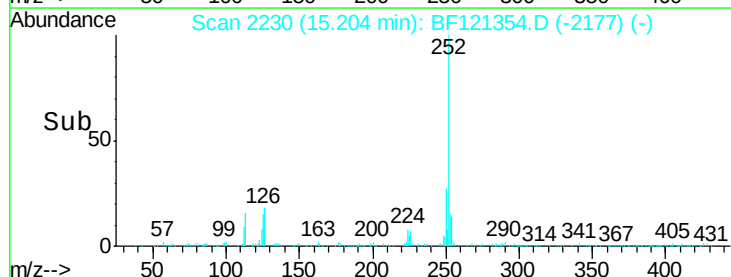
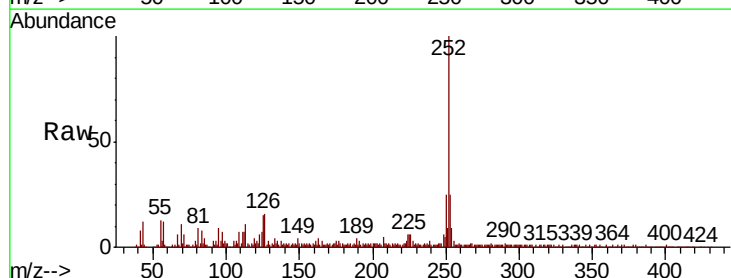
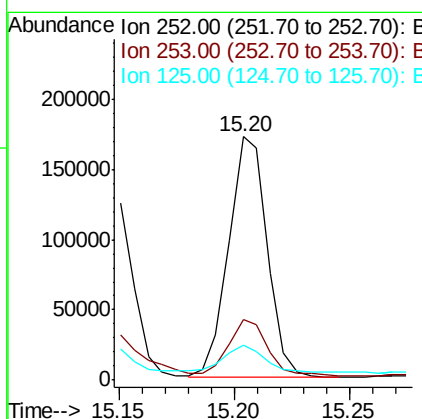
Manual Integrations
APPROVED

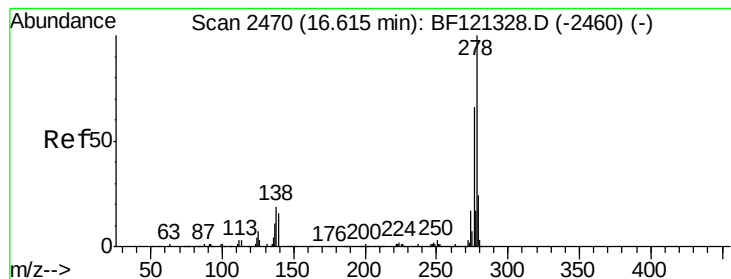
mohammad
8/21/2020 12:50:03 PM



#90
Benzo(a)pyrene
Concen: 10.443 ng
RT: 15.20 min Scan# 2230
Delta R.T. 0.01 min
Lab File: BF121354.D
Acq: 20 Aug 2020 18:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.0	27.0
125	14.6	9.4	14.0#





#91

Dibenzo(a,h)anthracene

Concen: 2.475 ng

RT: 16.63 min Scan# 2472

Delta R.T. 0.01 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Instrument :

BNA_F

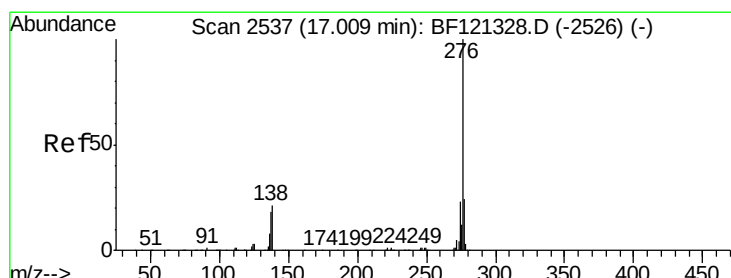
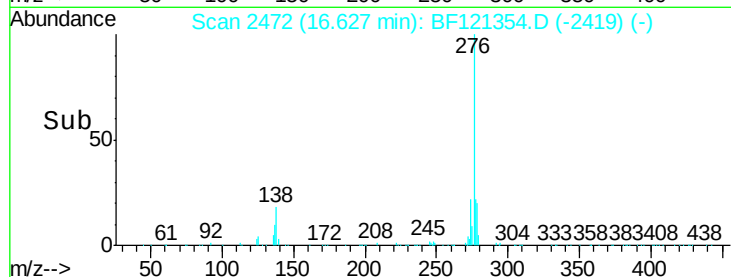
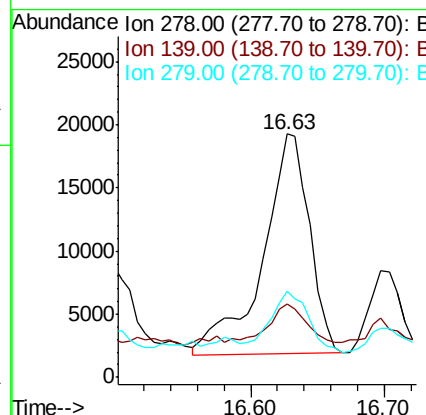
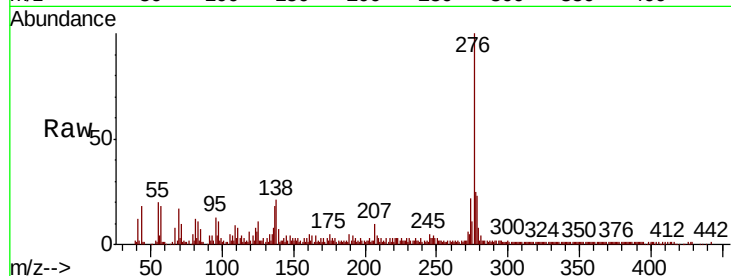
ClientSampleId :

OK-02-081920

Tot Ion:278	Resp:	42176
Ion Ratio	Lower	Upper
278	100	
139	30.0	13.1 19.7#
279	35.2	19.4 29.2#

Manual Integrations
APPROVED

mohammad
8/21/2020 12:50:03 PM



#92

Benzo(g,h,i)perylene

Concen: 8.547 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.03 min

Lab File: BF121354.D

Acq: 20 Aug 2020 18:47

Tgt Ion:276	Resp:	142398
Ion Ratio	Lower	Upper
276	100	
277	25.1	19.3 28.9
138	23.4	16.8 25.2

