

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050423\
 Data File : BF133243.D
 Acq On : 04 May 2023 21:38
 Operator : CG\JU
 Sample : 02588-15
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PILE-B-UNK-05022023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/05/2023
 Supervised By : Jagrut Upadhyay 05/05/2023

Quant Time: May 05 05:32:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 04 12:22:53 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.722	152	207614	20.000	ng	0.00
21) Naphthalene-d8	8.010	136	843241	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	446154	20.000	ng	-0.01
64) Phenanthrene-d10	11.245	188	800476	20.000	ng	0.00
76) Chrysene-d12	13.880	240	381947	20.000	ng	0.00
86) Perylene-d12	15.292	264	442751	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	1026637	74.699	ng	0.00
7) Phenol-d6	6.363	99	1266745	74.257	ng	-0.01
23) Nitrobenzene-d5	7.286	82	765666	49.011	ng	-0.01
42) 2,4,6-Tribromophenol	10.551	330	305743	68.141	ng	0.00
45) 2-Fluorobiphenyl	9.086	172	1299055	48.712	ng	0.00
79) Terphenyl-d14	12.827	244	1265203	57.130	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.028	128	384646	9.124	ng	99
37) 2-Methylnaphthalene	8.722	142	114181	3.961	ng	99
38) 1-Methylnaphthalene	8.816	142	70008	2.596	ng	96
52) Acenaphthene	9.792	154	394737	14.245	ng	98
55) Dibenzofuran	9.963	168	431067	11.404	ng	99
58) Fluorene	10.304	166	573531	20.709	ng	100
71) Phenanthrene	11.274	178	3057267	71.061	ng	98
72) Anthracene	11.322	178	1180737	26.817	ng	99
73) Carbazole	11.469	167	379947	9.691	ng	99
75) Fluoranthene	12.463	202	2757996	63.874	ng	98
78) Pyrene	12.686	202	2213457	67.604	ng	98
81) Benzo(a)anthracene	13.868	228	867809	33.040	ng	99
83) Chrysene	13.904	228	723946m	27.570	ng	
87) Indeno(1,2,3-cd)pyrene	16.662	276	328767	13.054	ng	# 92
88) Benzo(b)fluoranthene	14.892	252	842577m	29.913	ng	
89) Benzo(k)fluoranthene	14.915	252	235247m	8.425	ng	
90) Benzo(a)pyrene	15.233	252	627646	24.481	ng	98
91) Dibenzo(a,h)anthracene	16.668	278	81129	3.862	ng	97
92) Benzo(g,h,i)perylene	17.074	276	243909	11.762	ng	97

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

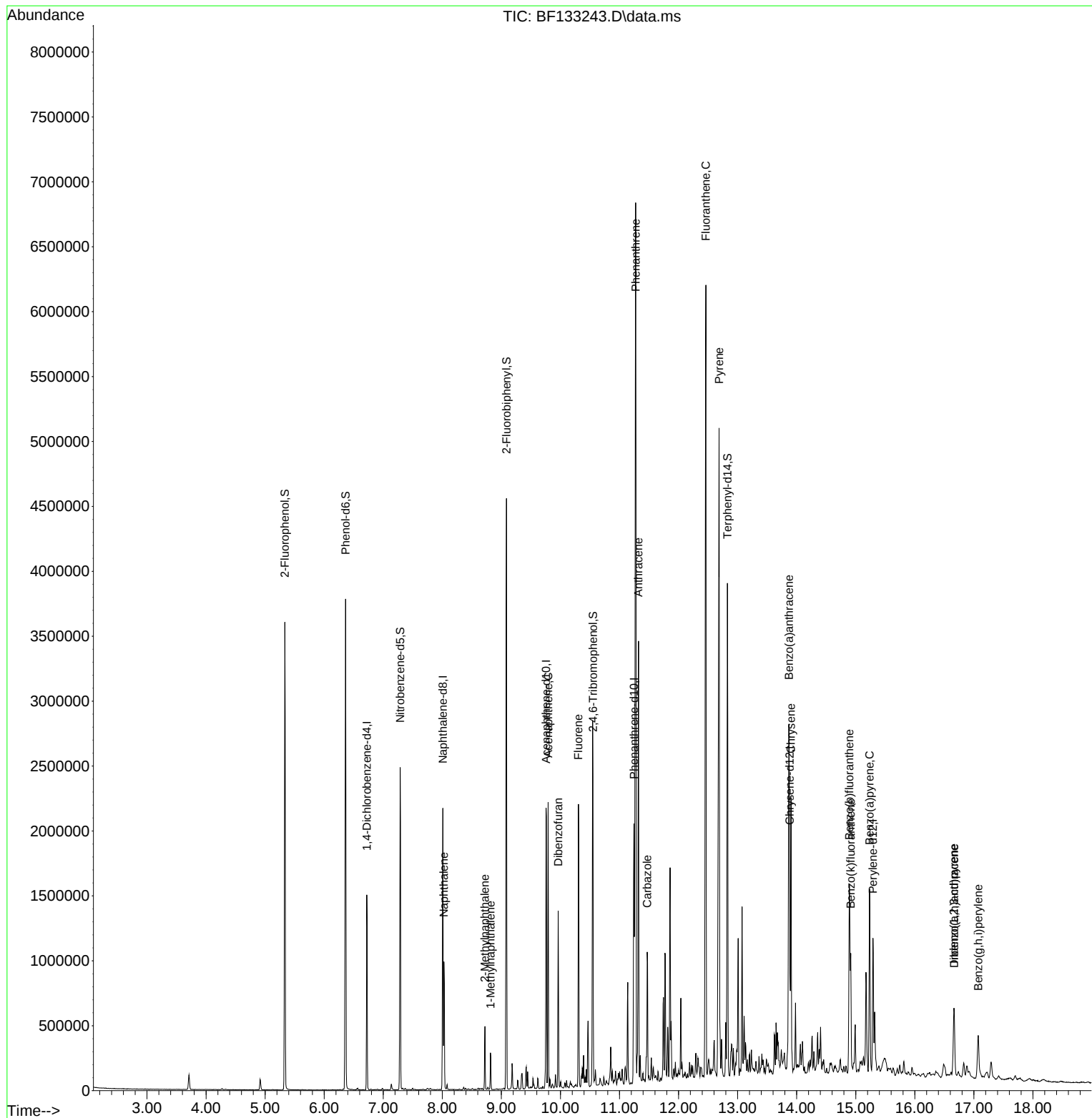
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050423\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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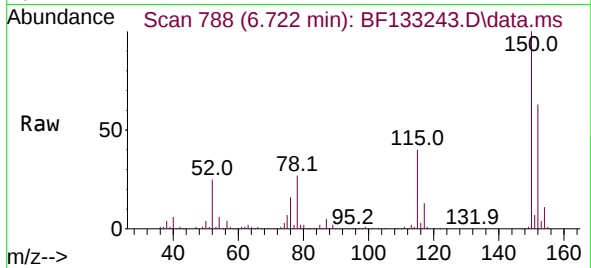
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.722 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

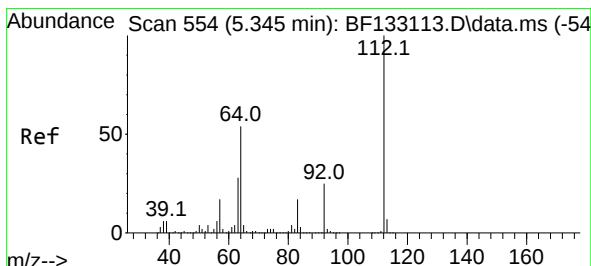
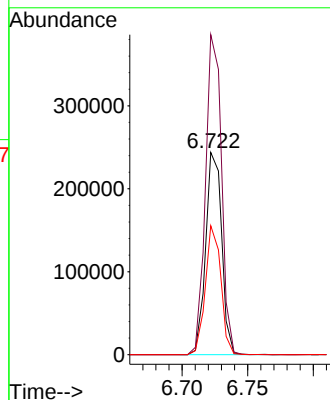
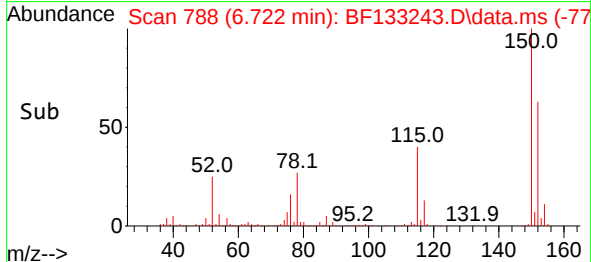
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:152 Resp: 207614
Ion Ratio Lower Upper
152 100
150 158.3 124.8 187.2
115 63.8 49.9 74.9

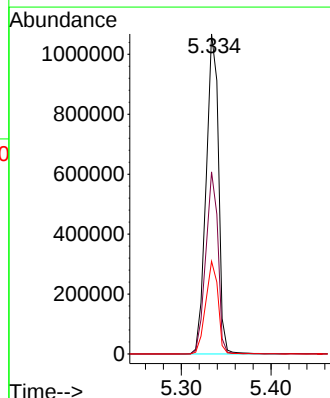
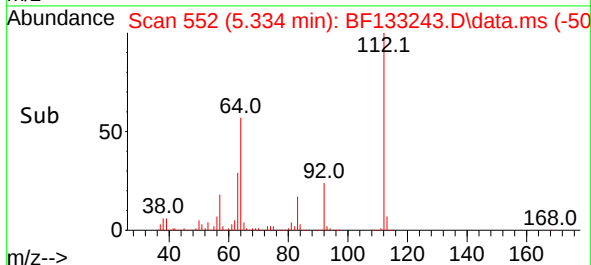
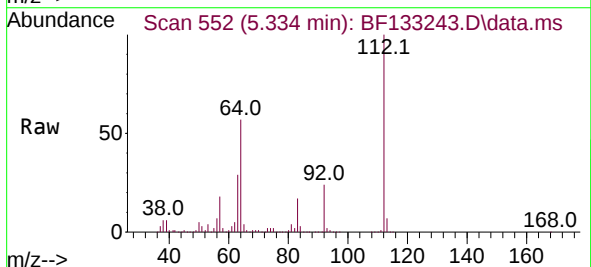
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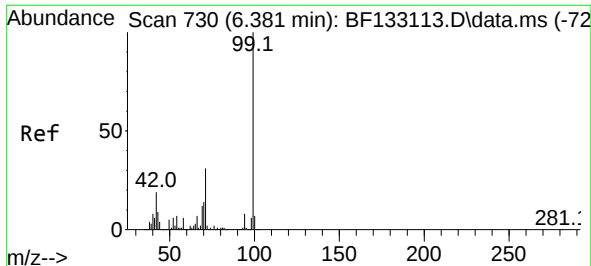
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#5
2-Fluorophenol
Concen: 74.699 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

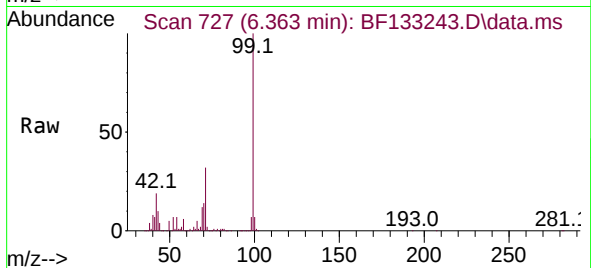
Tgt Ion:112 Resp: 1026637
Ion Ratio Lower Upper
112 100
64 56.9 46.8 70.2
63 29.0 23.8 35.8





#7
Phenol-d6
Concen: 74.257 ng
RT: 6.363 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

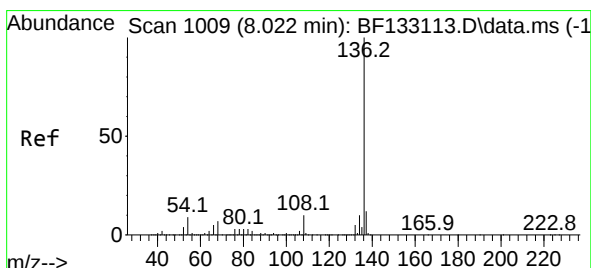
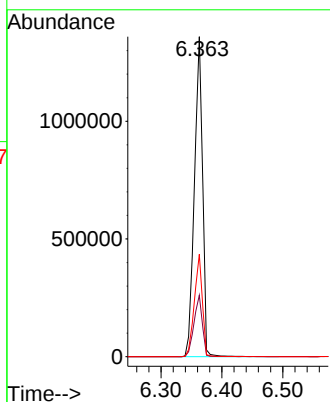
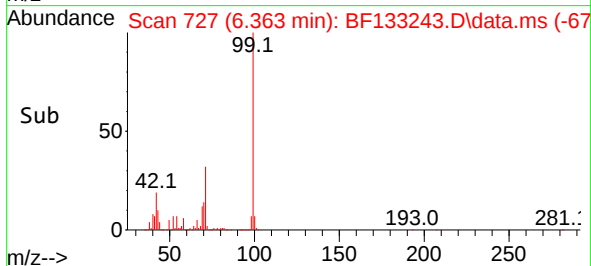
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 126674
Ion Ratio Lower Upper
99 100
42 19.2 16.3 24.5
71 32.0 25.6 38.4

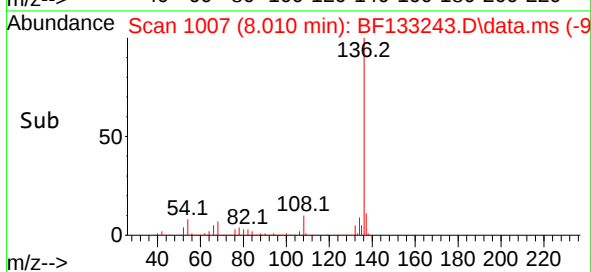
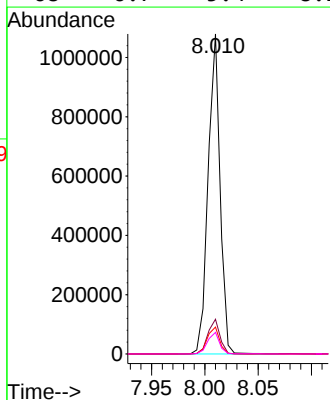
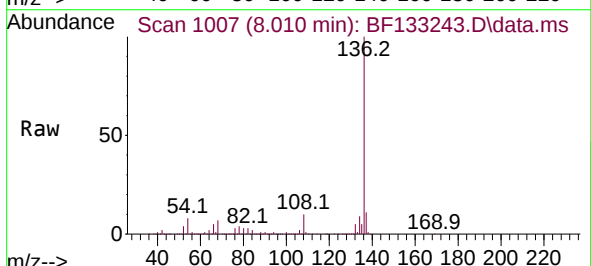
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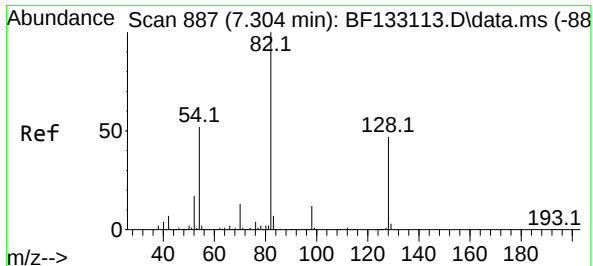
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:136 Resp: 843241
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.4 7.0 10.4
68 6.7 5.4 8.2





#23

Nitrobenzene-d5

Concen: 49.011 ng

RT: 7.286 min Scan# 887

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

Tgt Ion: 82 Resp: 76566

Ion Ratio Lower Upper

82 100

128 46.3 37.7 56.5

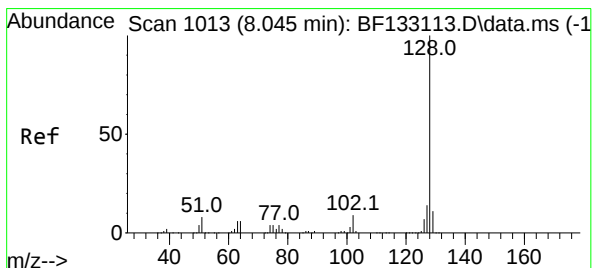
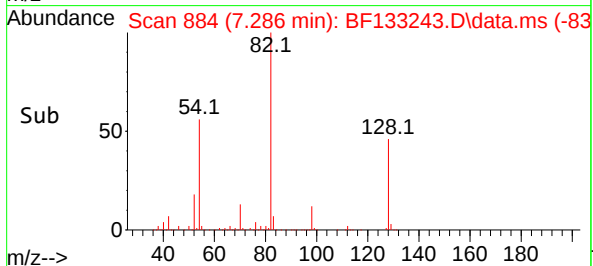
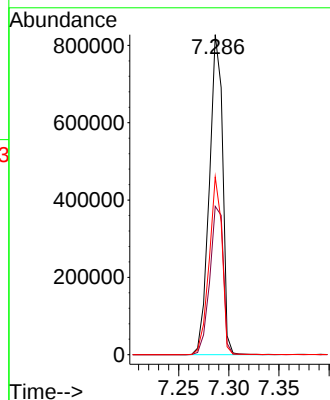
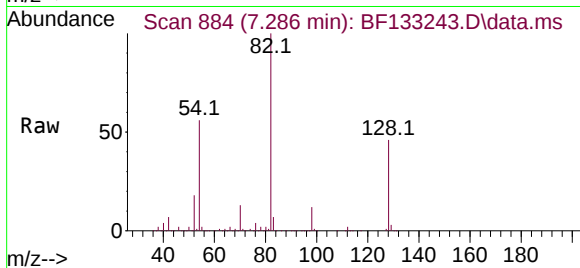
54 55.5 43.0 64.4

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Supervised By :Jagrut Upadhyay 05/05/2023



#31

Naphthalene

Concen: 9.124 ng

RT: 8.028 min Scan# 1010

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

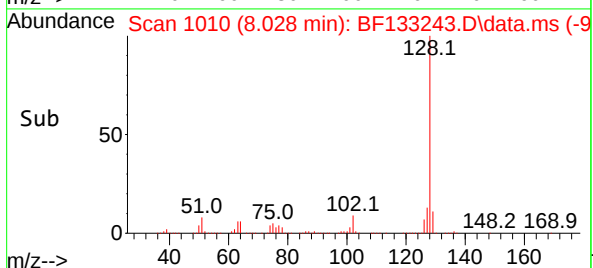
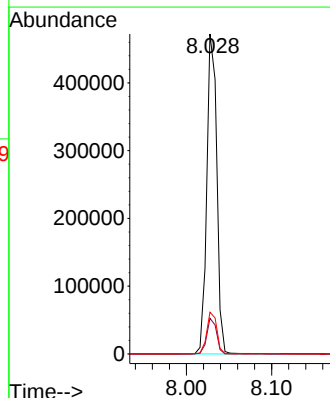
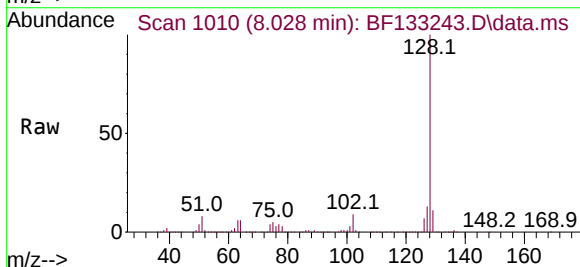
Tgt Ion:128 Resp: 384646

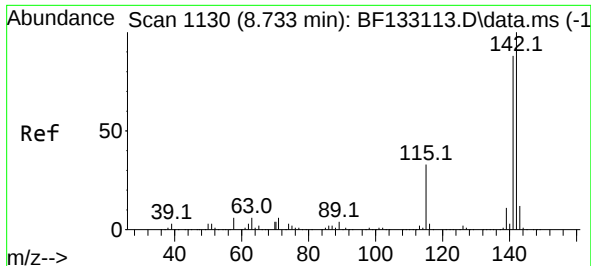
Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

127 13.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 3.961 ng

RT: 8.722 min Scan# 1128

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

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PILE-B-UNK-05022023

Tgt Ion:142 Resp: 11418

Ion Ratio Lower Upper

142 100

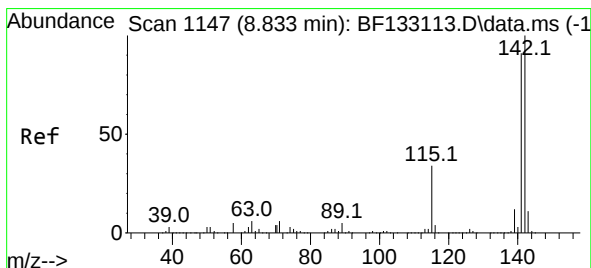
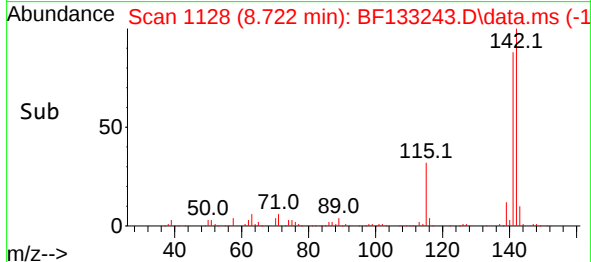
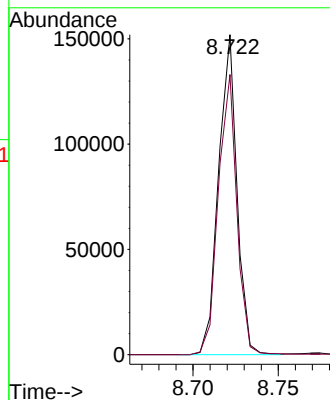
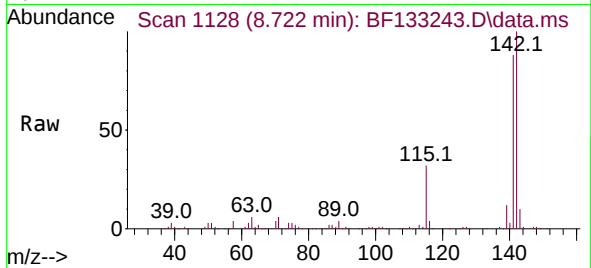
141 87.5 69.4 104.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/05/2023



#38

1-Methylnaphthalene

Concen: 2.596 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.012 min

Lab File: BF133243.D

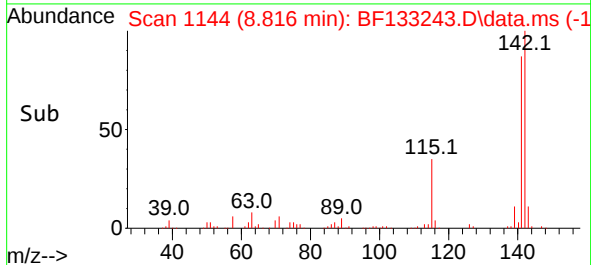
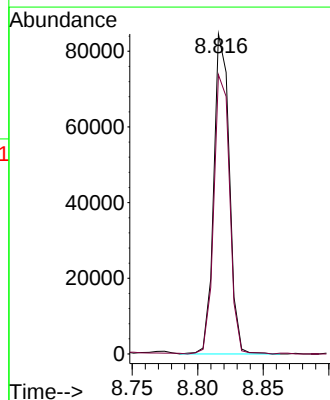
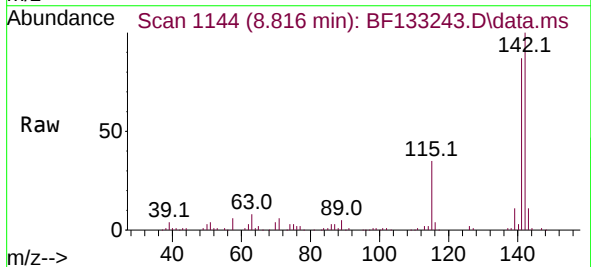
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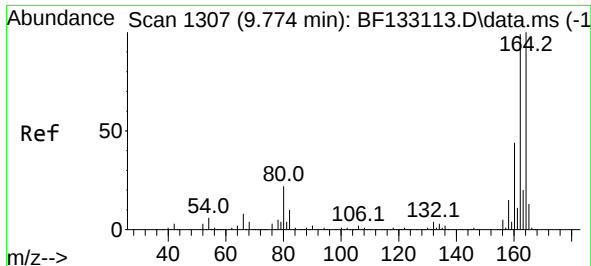
Tgt Ion:142 Resp: 70008

Ion Ratio Lower Upper

142 100

141 87.3 73.1 109.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF133243.D

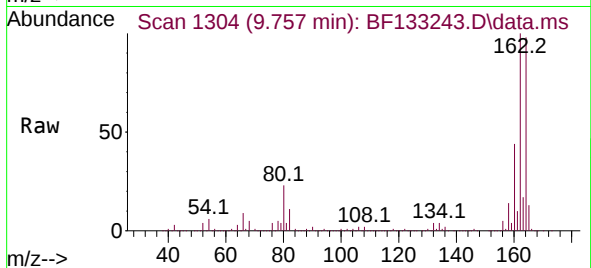
Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023



Tgt Ion:164 Resp: 446154

Ion Ratio Lower Upper

164 100

162 101.9 78.7 118.1

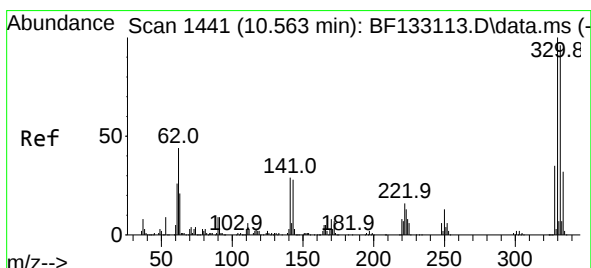
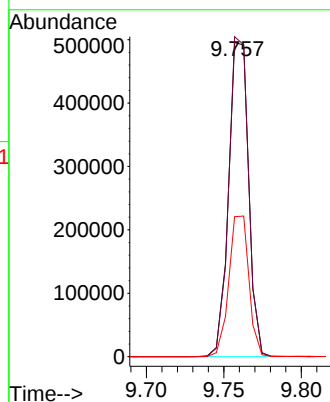
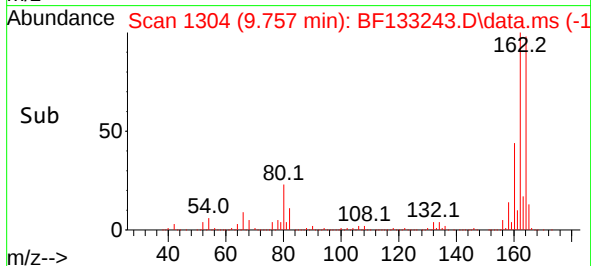
160 44.6 35.8 53.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/05/2023

Supervised By :Jagrut Upadhyay 05/05/2023



#42

2,4,6-Tribromophenol

Concen: 68.141 ng

RT: 10.551 min Scan# 1439

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

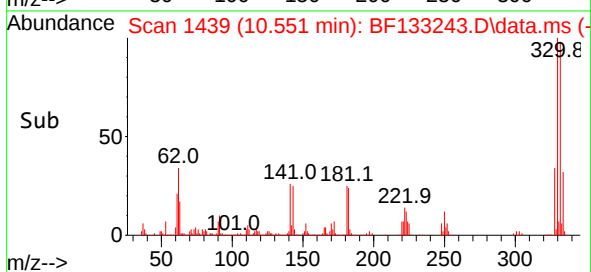
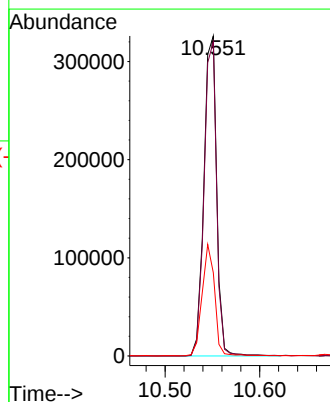
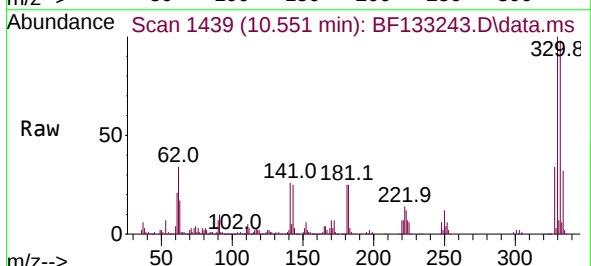
Tgt Ion:330 Resp: 305743

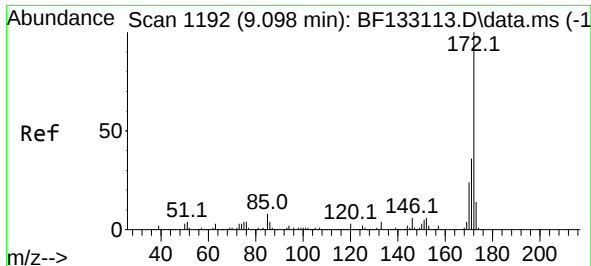
Ion Ratio Lower Upper

330 100

332 96.6 77.1 115.7

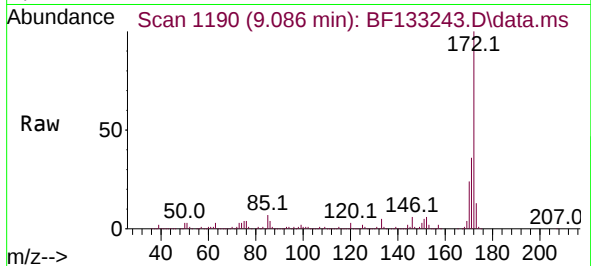
141 34.1 25.8 38.8





#45
2-Fluorobiphenyl
Concen: 48.712 ng
RT: 9.086 min Scan# 1192
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

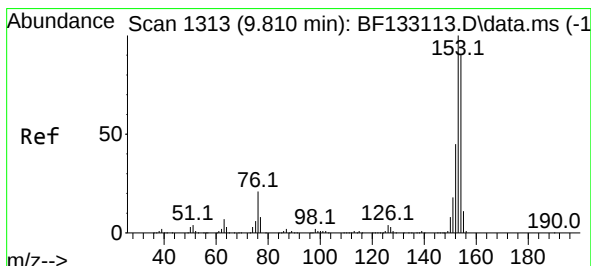
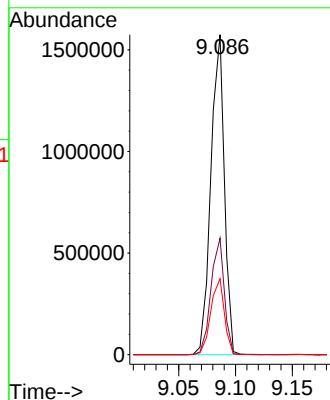
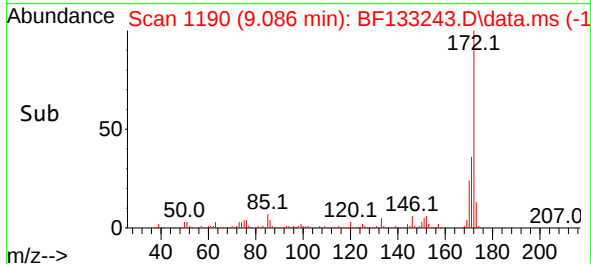
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:172 Resp: 129905
Ion Ratio Lower Upper
172 100
171 36.4 28.8 43.2
170 23.7 19.4 29.2

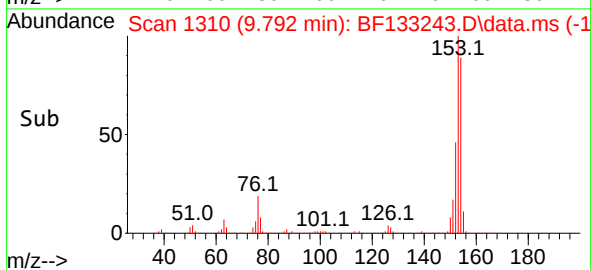
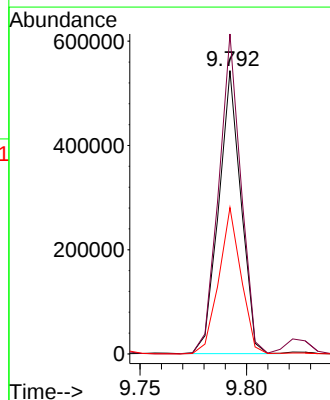
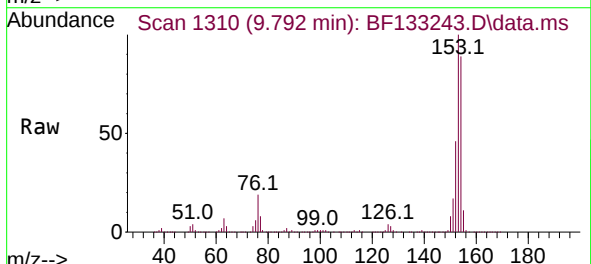
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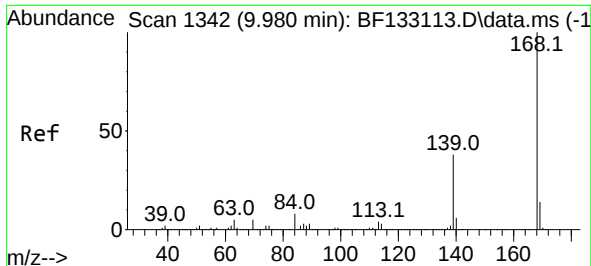
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#52
Acenaphthene
Concen: 14.245 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

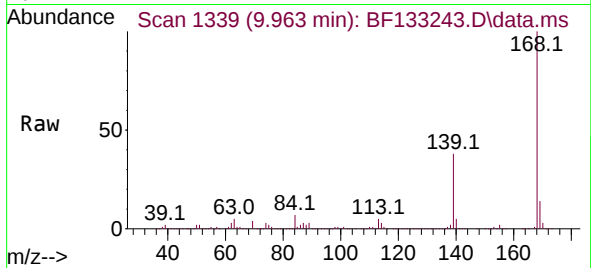
Tgt Ion:154 Resp: 394737
Ion Ratio Lower Upper
154 100
153 112.9 89.0 133.6
152 51.6 40.4 60.6





#55
Dibenzenofuran
Concen: 11.404 ng
RT: 9.963 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

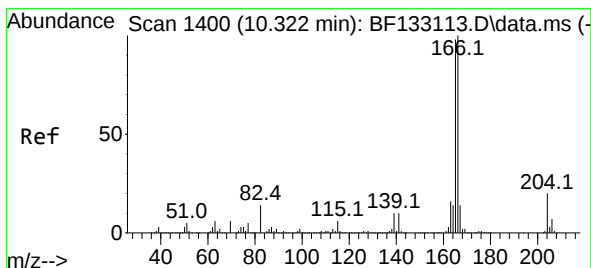
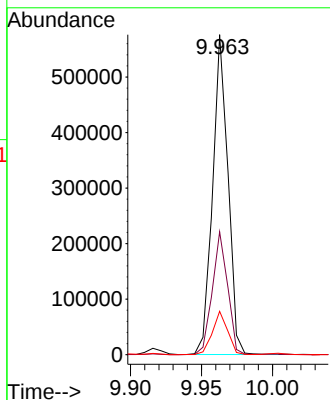
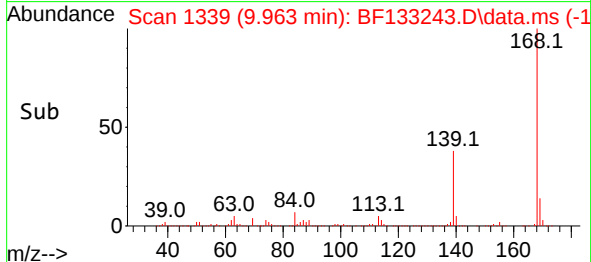
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:168 Resp: 43106
Ion Ratio Lower Upper
168 100
139 38.4 29.8 44.8
169 13.6 10.8 16.2

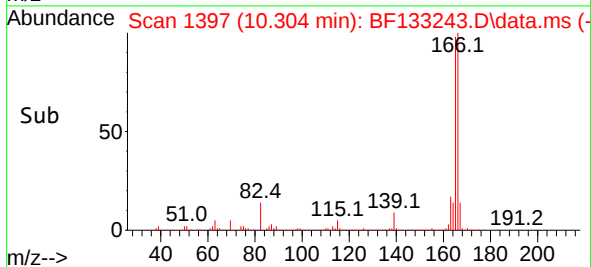
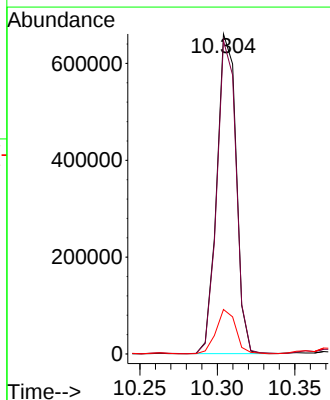
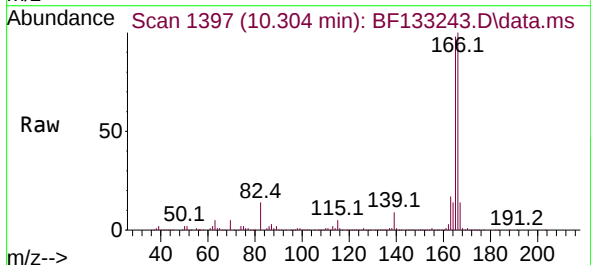
Manual Integrations
APPROVED

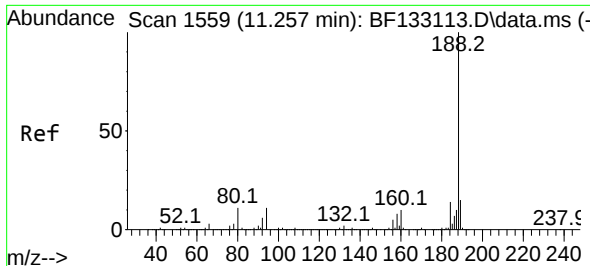
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#58
Fluorene
Concen: 20.709 ng
RT: 10.304 min Scan# 1397
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

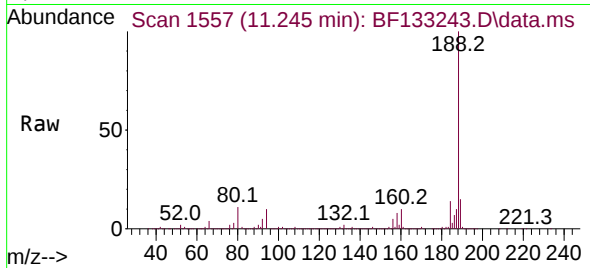
Tgt Ion:166 Resp: 573531
Ion Ratio Lower Upper
166 100
165 98.0 78.6 117.8
167 13.9 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.245 min Scan# 1557
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

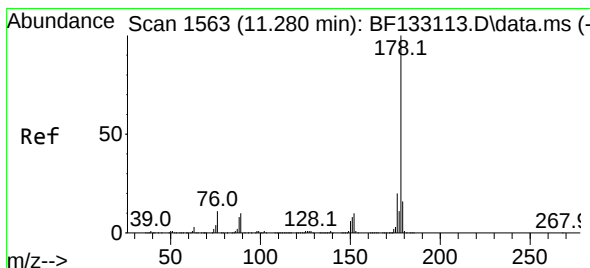
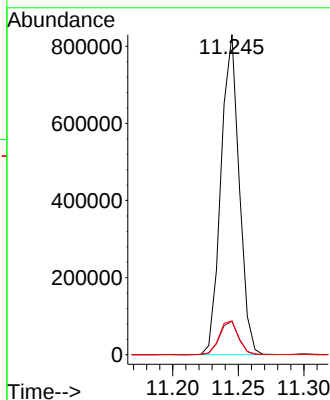
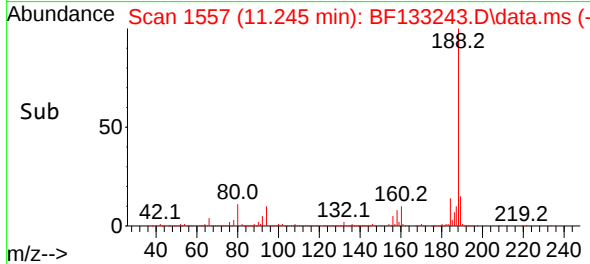
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:188 Resp: 800470
Ion Ratio Lower Upper
188 100
94 10.4 9.7 14.5
80 10.6 10.4 15.6

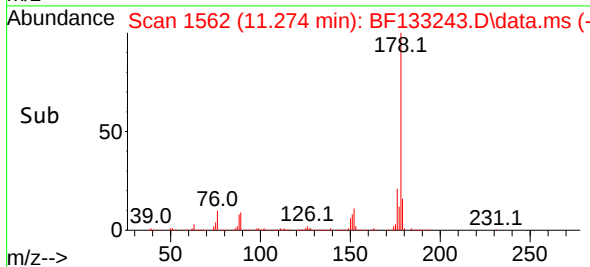
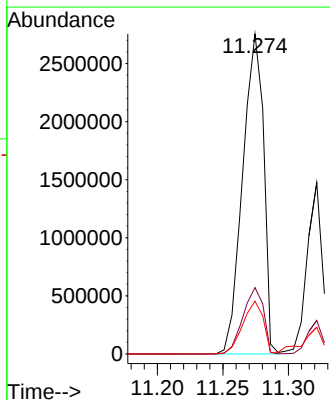
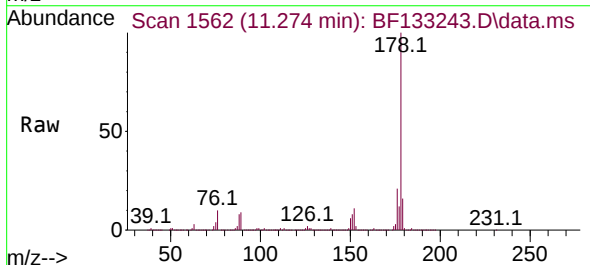
Manual Integrations
APPROVED

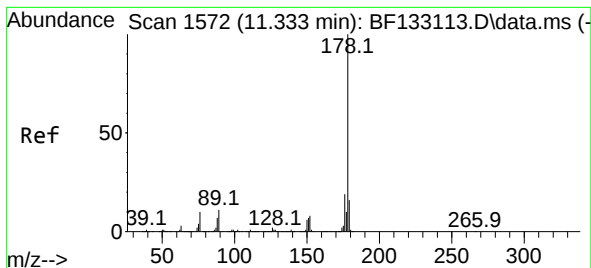
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#71
Phenanthrene
Concen: 71.061 ng
RT: 11.274 min Scan# 1562
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:178 Resp: 3057267
Ion Ratio Lower Upper
178 100
176 20.8 15.9 23.9
179 16.5 12.5 18.7





#72

Anthracene

Concen: 26.817 ng

RT: 11.322 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

Tgt Ion:178 Resp: 118073

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

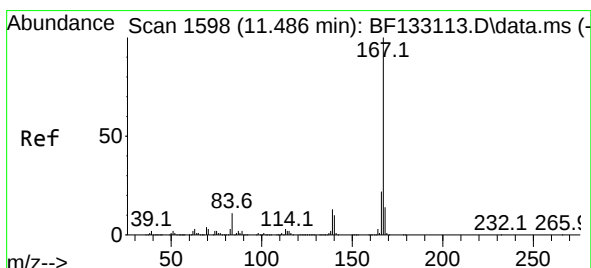
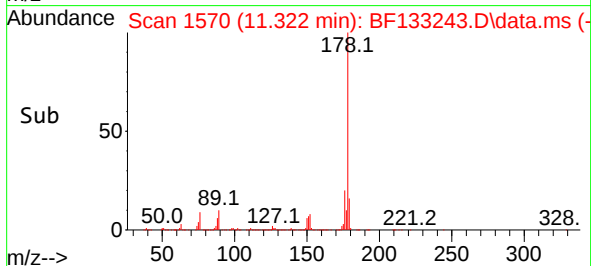
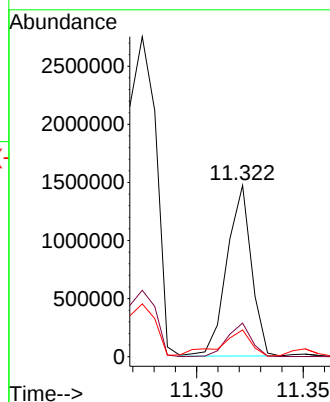
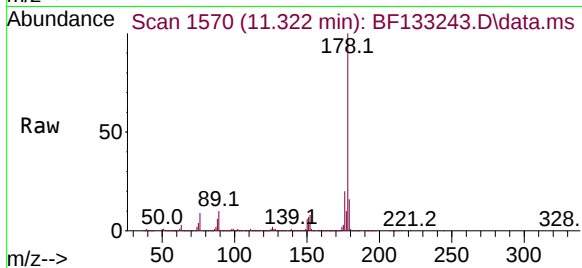
179 15.6 12.4 18.6

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Reviewed By :Christian Giraldo 05/05/2023

Supervised By :Jagrut Upadhyay 05/05/2023



#73

Carbazole

Concen: 9.691 ng

RT: 11.469 min Scan# 1595

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

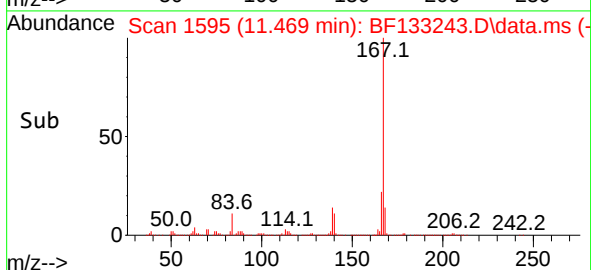
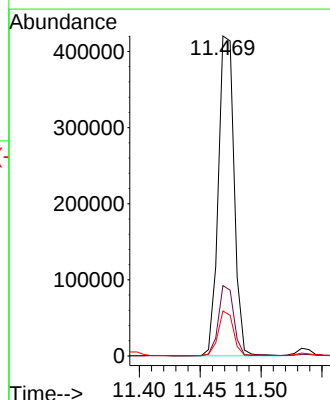
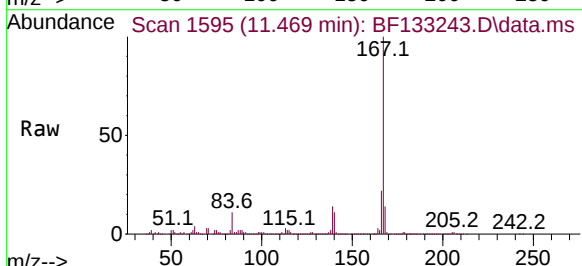
Tgt Ion:167 Resp: 379947

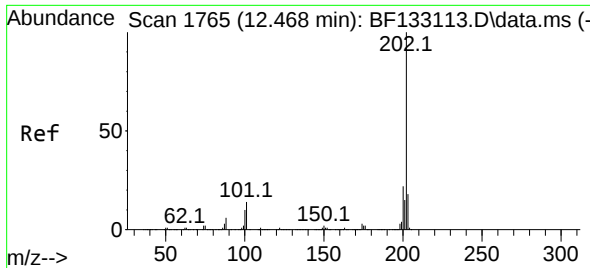
Ion Ratio Lower Upper

167 100

166 22.0 17.4 26.0

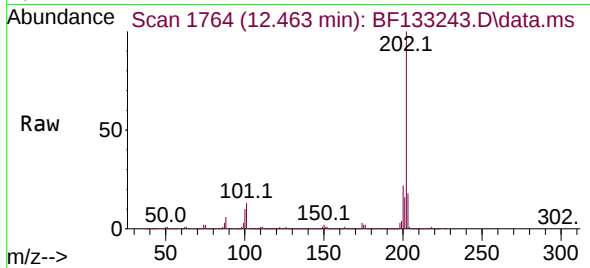
139 14.0 10.6 16.0





#75
Fluoranthene
Concen: 63.874 ng
RT: 12.463 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

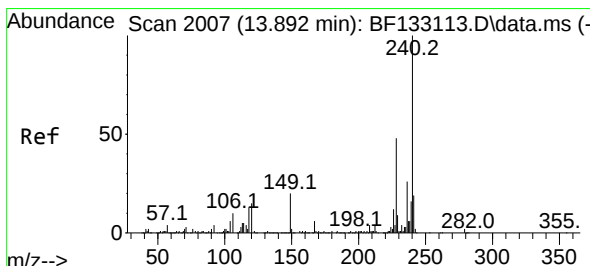
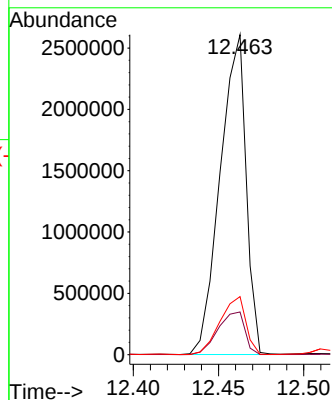
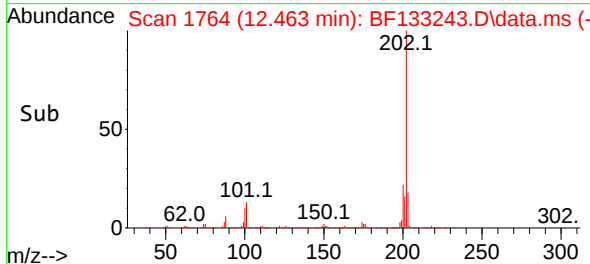
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:202 Resp: 2757990
Ion Ratio Lower Upper
202 100
101 13.4 0.0 35.3
203 18.1 0.0 38.1

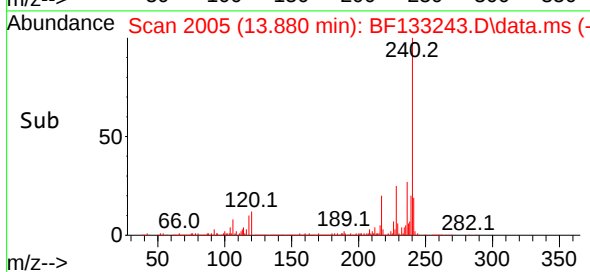
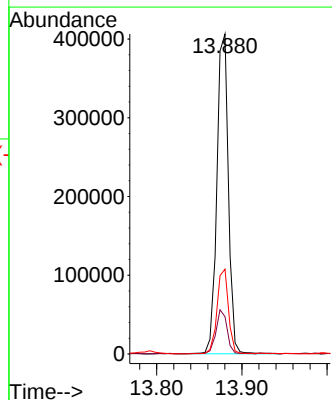
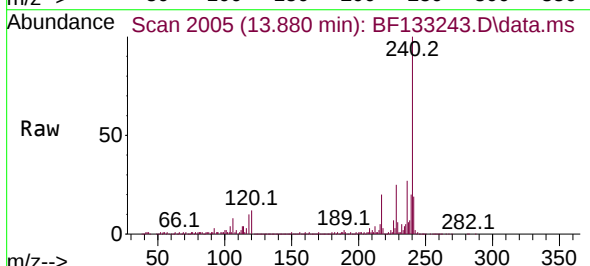
Manual Integrations
APPROVED

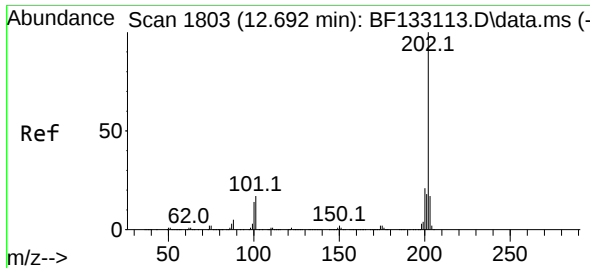
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

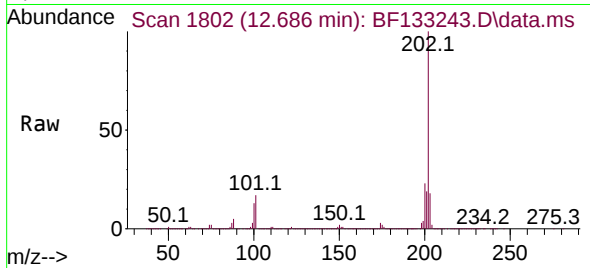
Tgt Ion:240 Resp: 381947
Ion Ratio Lower Upper
240 100
120 11.7 10.5 15.7
236 26.5 21.5 32.3





#78
Pyrene
Concen: 67.604 ng
RT: 12.686 min Scan# 1802
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

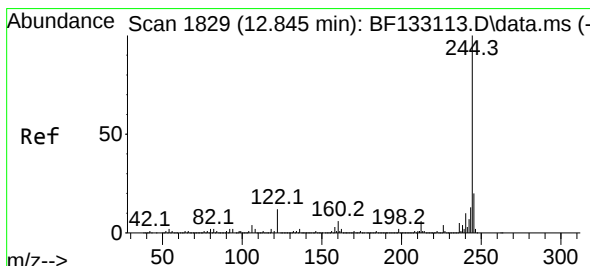
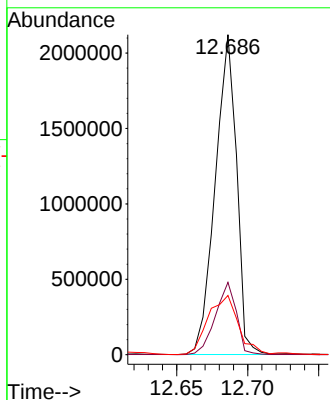
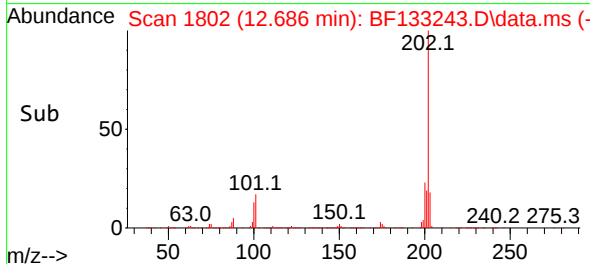
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



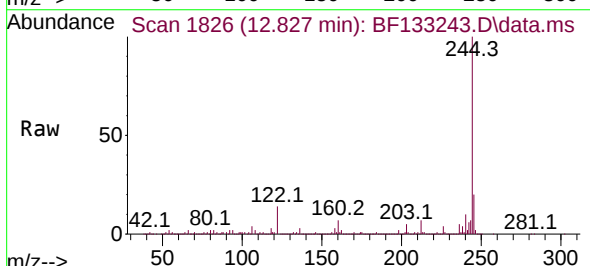
Tgt Ion:202 Resp: 221345
Ion Ratio Lower Upper
202 100
200 22.6 17.1 25.7
203 18.5 14.1 21.1

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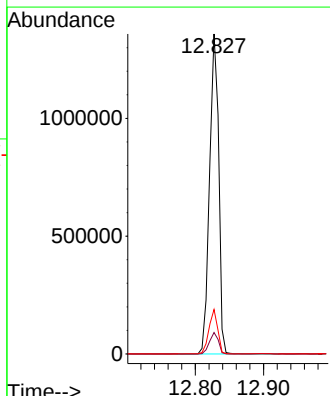
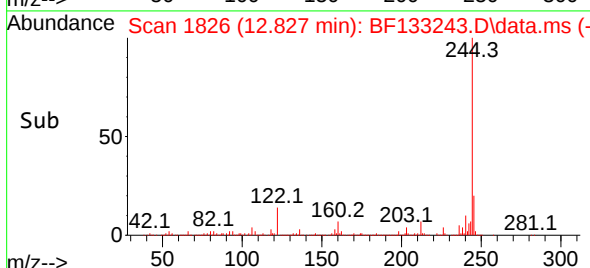
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023

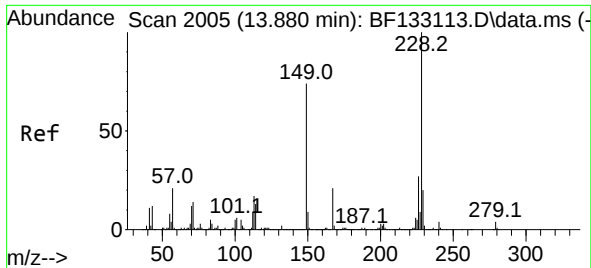


#79
Terphenyl-d14
Concen: 57.130 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38



Tgt Ion:244 Resp: 1265203
Ion Ratio Lower Upper
244 100
212 6.7 5.1 7.7
122 13.9 8.6 13.0#





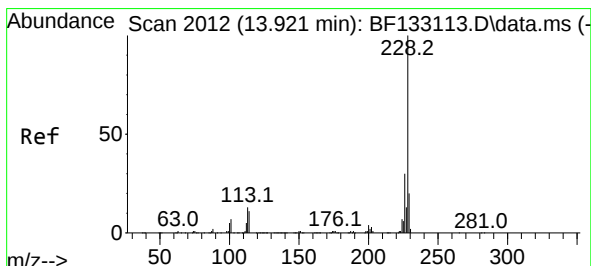
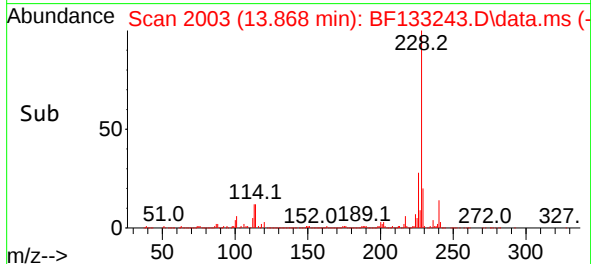
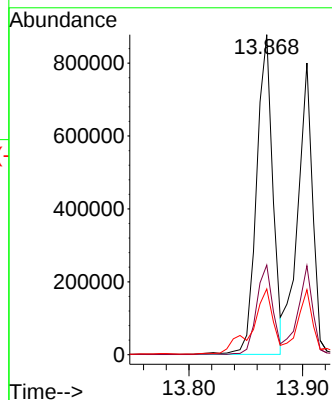
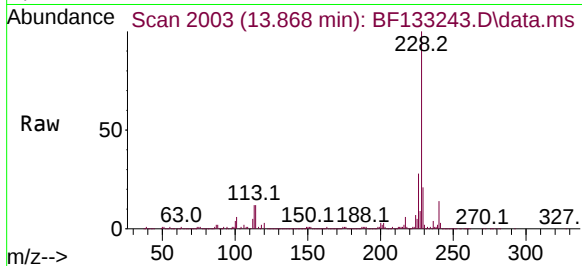
#81
Benzo(a)anthracene
Concen: 33.040 ng
RT: 13.868 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

Tgt Ion:228 Resp: 867809
Ion Ratio Lower Upper
228 100
226 28.0 22.2 33.4
229 20.5 16.0 24.0

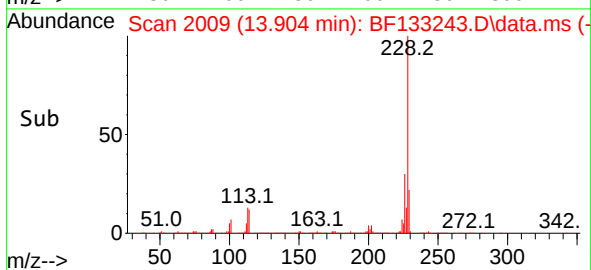
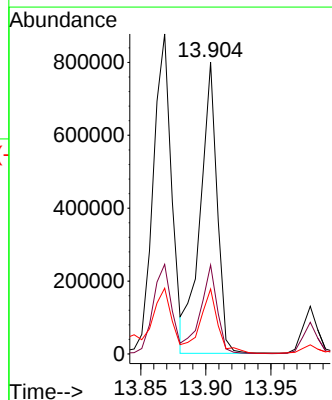
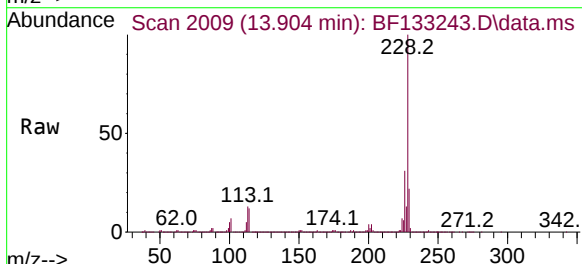
Manual Integrations
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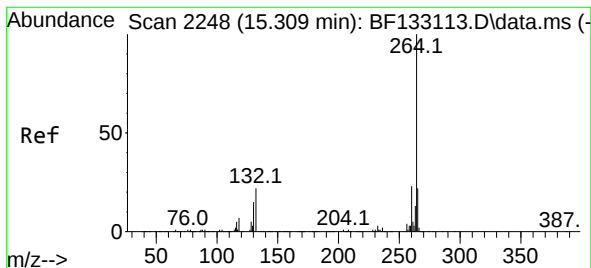
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#83
Chrysene
Concen: 27.570 ng m
RT: 13.904 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

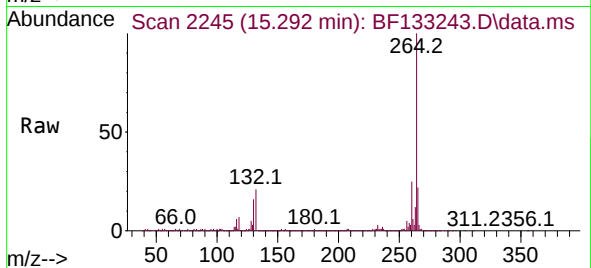
Tgt Ion:228 Resp: 723946
Ion Ratio Lower Upper
228 100
226 30.5 24.7 37.1
229 22.3 16.1 24.1





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.292 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

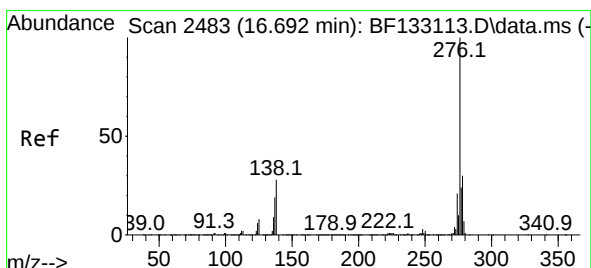
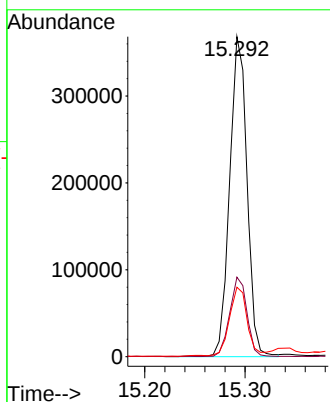
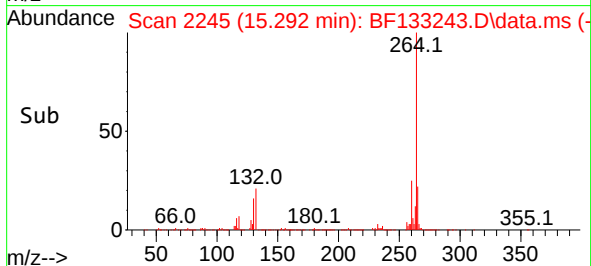
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:264 Resp: 44275
Ion Ratio Lower Upper
264 100
260 24.9 18.8 28.2
265 21.7 17.0 25.4

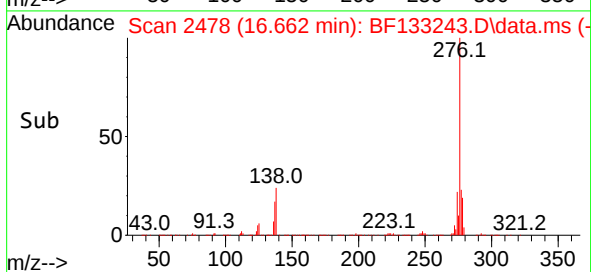
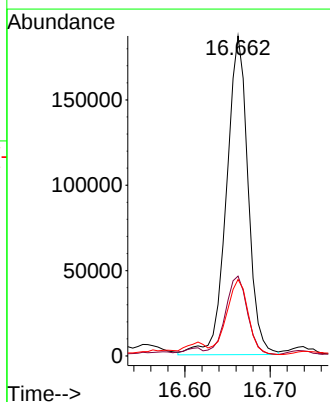
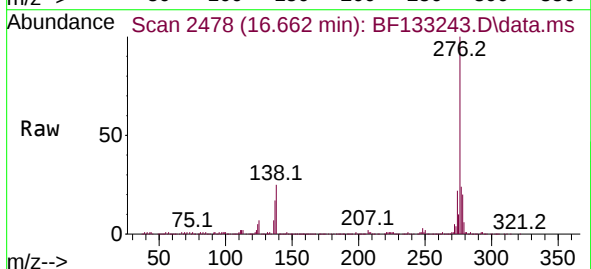
Manual Integrations
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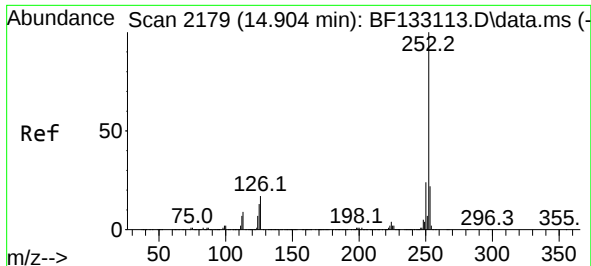
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 13.054 ng
RT: 16.662 min Scan# 2478
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

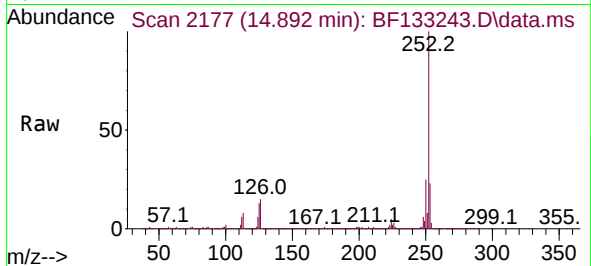
Tgt Ion:276 Resp: 328767
Ion Ratio Lower Upper
276 100
138 25.0 25.5 38.3#
277 23.8 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 29.913 ng m
RT: 14.892 min Scan# 2177
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

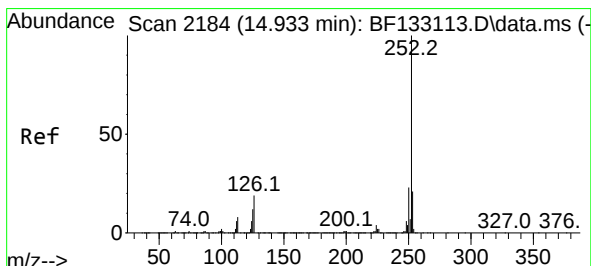
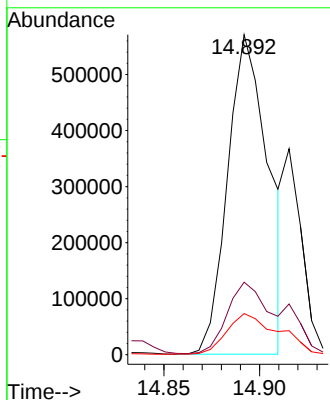
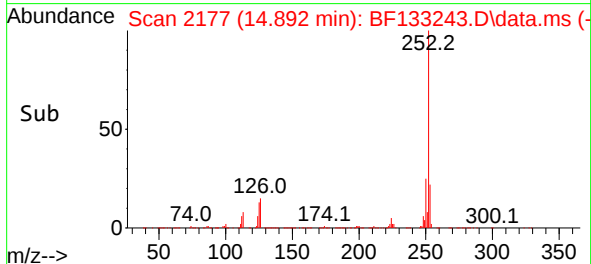
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:252 Resp: 84257
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.8 8.9 13.3

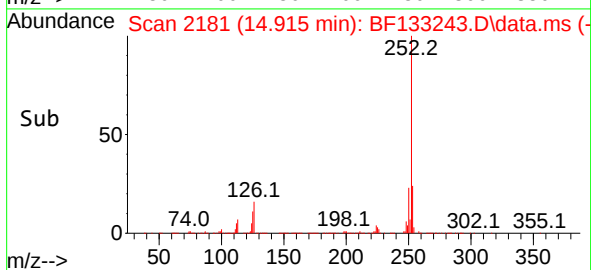
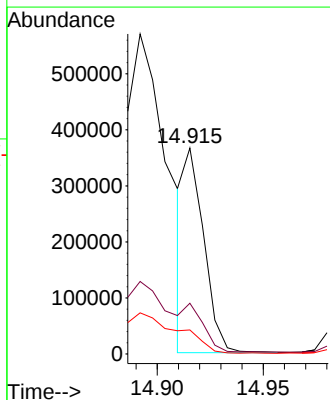
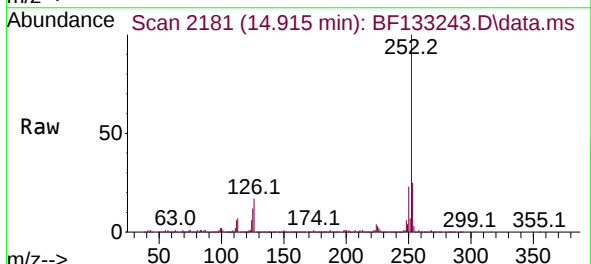
Manual Integrations
APPROVED

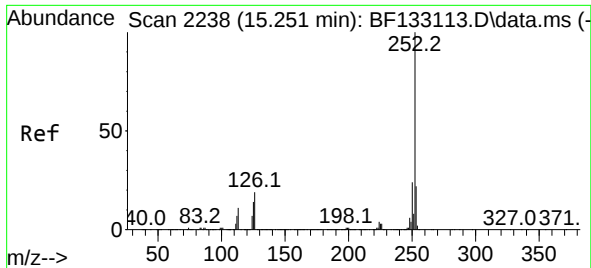
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#89
Benzo(k)fluoranthene
Concen: 8.425 ng m
RT: 14.915 min Scan# 2181
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

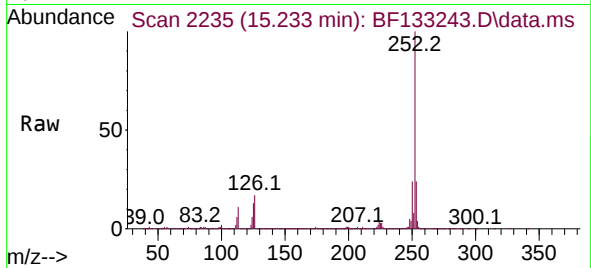
Tgt Ion:252 Resp: 235247
Ion Ratio Lower Upper
252 100
253 24.7 17.7 26.5
125 11.7 9.0 13.4





#90
Benzo(a)pyrene
Concen: 24.481 ng
RT: 15.233 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

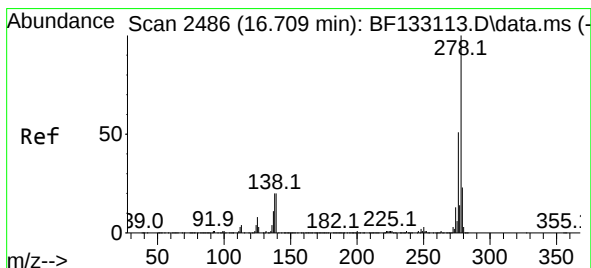
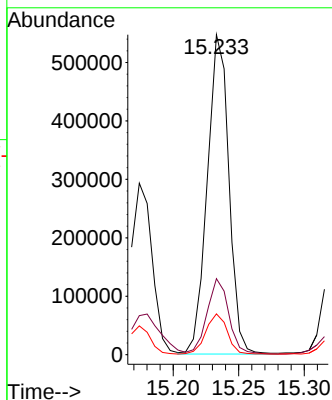
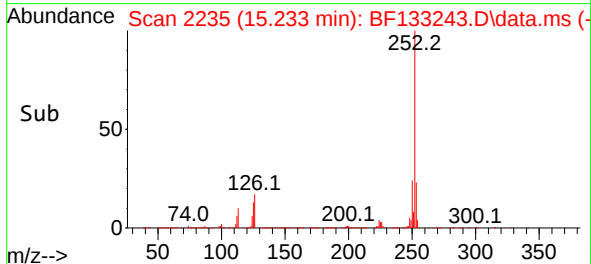
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023



Tgt Ion:252 Resp: 627640
Ion Ratio Lower Upper
252 100
253 23.8 17.7 26.5
125 12.8 10.5 15.7

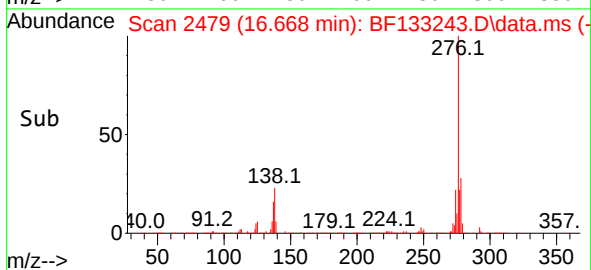
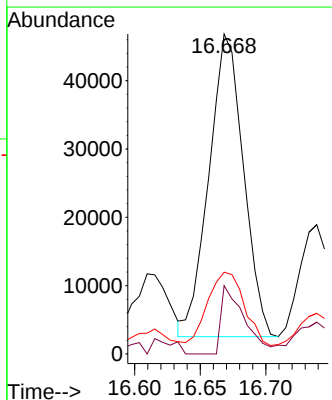
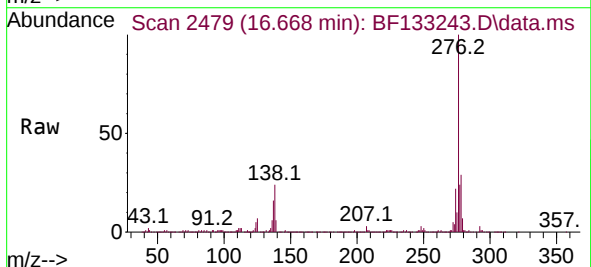
Manual Integrations
APPROVED

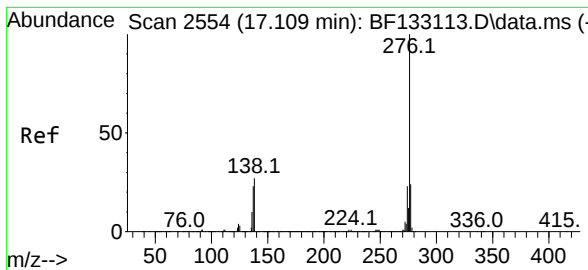
Reviewed By :Christian Giraldo 05/05/2023
Supervised By :Jagrut Upadhyay 05/05/2023



#91
Dibenzo(a,h)anthracene
Concen: 3.862 ng
RT: 16.668 min Scan# 2479
Delta R.T. -0.024 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

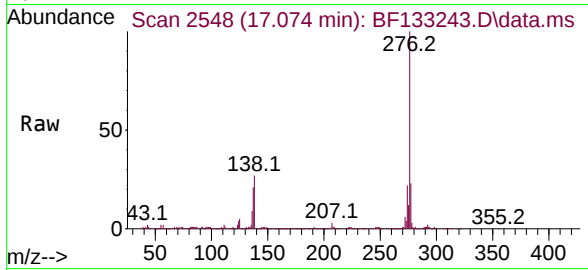
Tgt Ion:278 Resp: 81129
Ion Ratio Lower Upper
278 100
139 21.4 16.6 24.8
279 25.6 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 11.762 ng
 RT: 17.074 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BF133243.D
 Acq: 04 May 2023 21:38

Instrument :
 BNA_F
 ClientSampleId :
 PILE-B-UNK-05022023



Tgt Ion: 276 Resp: 243909

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	26.7	22.7	34.1

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