

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092022\
 Data File : BF130350.D
 Acq On : 20 Sep 2022 18:23
 Operator : CG\JU
 Sample : N4713-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091922

Quant Time: Sep 21 05:16:59 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 19 15:06:14 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 09/21/2022
 Supervised By : Jagrut Upadhyay 09/21/2022

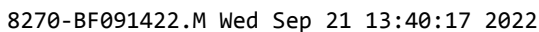
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

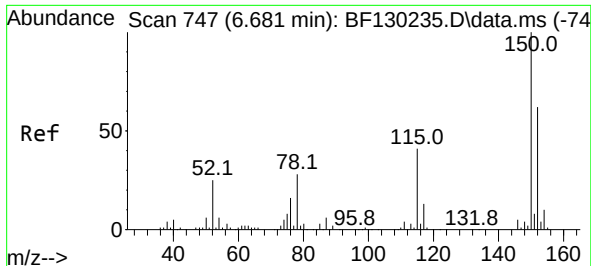
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.657	152	70448	20.000	ng	0.00
21) Naphthalene-d8	7.940	136	234109	20.000	ng	0.00
39) Acenaphthene-d10	9.692	164	113079	20.000	ng	0.00
64) Phenanthrene-d10	11.175	188	202561	20.000	ng	0.00
76) Chrysene-d12	13.822	240	185622	20.000	ng	0.02
86) Perylene-d12	15.216	264	136208	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.263	112	426981	105.125	ng	0.00
7) Phenol-d6	6.304	99	486234	95.676	ng	0.00
23) Nitrobenzene-d5	7.222	82	295402	64.464	ng	-0.01
42) 2,4,6-Tribromophenol	10.481	330	131053	120.952	ng	0.00
45) 2-Fluorobiphenyl	9.016	172	495814	63.849	ng	0.00
79) Terphenyl-d14	12.763	244	669021	59.703	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.963	128	62130	5.151	ng	97
37) 2-Methylnaphthalene	8.651	142	43923	5.712	ng	100
38) 1-Methylnaphthalene	8.751	142	65642	8.886	ng	98
49) Acenaphthylene	9.551	152	122057	11.916	ng	# 96
52) Acenaphthene	9.722	154	155639	23.126	ng	98
55) Dibenzofuran	9.892	168	139871	14.942	ng	# 89
58) Fluorene	10.239	166	251224	32.816	ng	99
71) Phenanthrene	11.216	178	3130406	275.258	ng	98
72) Anthracene	11.257	178	976879	89.011	ng	99
73) Carbazole	11.410	167	82165	8.296	ng	98
75) Fluoranthene	12.410	202	5006680	455.595	ng	97
78) Pyrene	12.639	202	4452948	274.225	ng	96
81) Benzo(a)anthracene	13.816	228	2238357	181.266	ng	98
83) Chrysene	13.857	228	1910872m	162.976	ng	
84) Bis(2-ethylhexyl)phtha...	13.804	149	19423	2.819	ng	# 86
87) Indeno(1,2,3-cd)pyrene	16.568	276	762603m	78.952	ng	
88) Benzo(b)fluoranthene	14.833	252	2024854m	227.761	ng	
89) Benzo(k)fluoranthene	14.857	252	528876m	60.475	ng	
90) Benzo(a)pyrene	15.174	252	1371209	194.686	ng	97
91) Dibenzo(a,h)anthracene	16.568	278	181833m	22.948	ng	
92) Benzo(g,h,i)perylene	16.968	276	681087	85.327	ng	98

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

Manual Integrations APPROVED

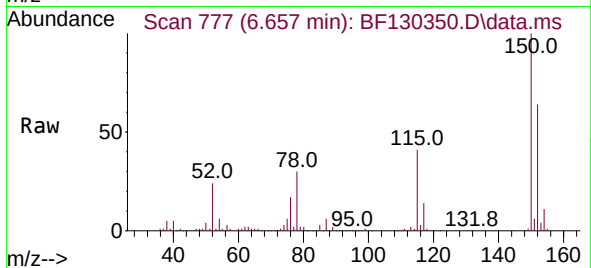
Quant Time: Sep 21 05:16:59 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 19 15:06:14 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.657 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

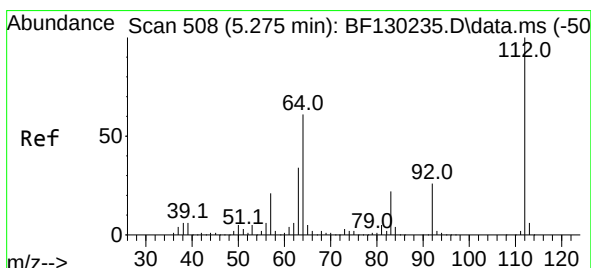
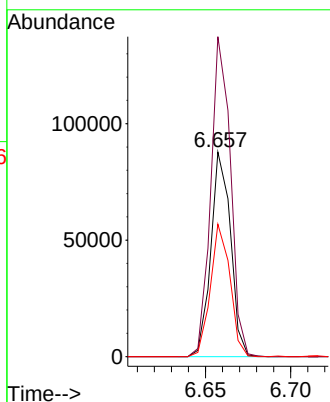
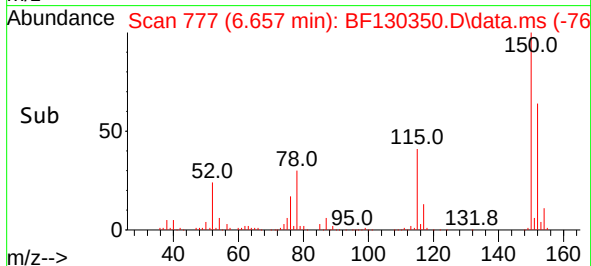
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



Tgt Ion:152 Resp: 70448
Ion Ratio Lower Upper
152 100
150 156.4 122.8 184.2
115 64.7 53.8 80.8

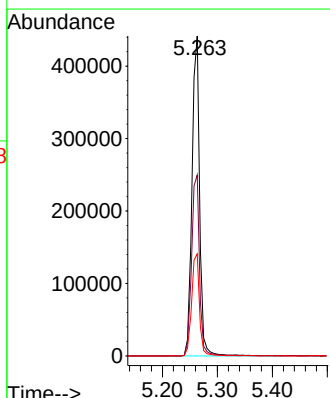
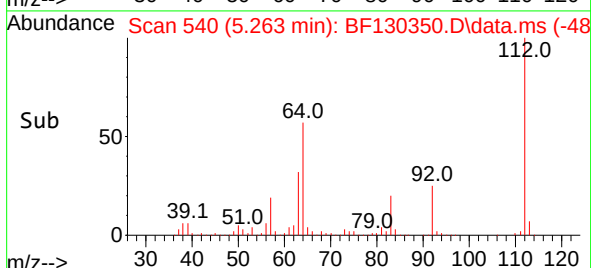
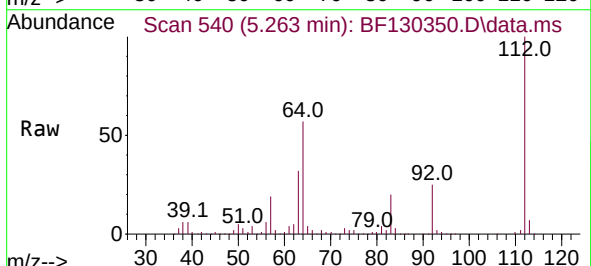
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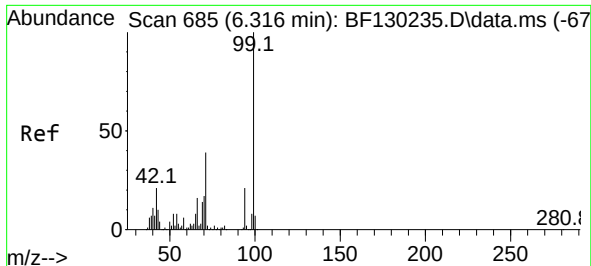
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#5
2-Fluorophenol
Concen: 105.125 ng
RT: 5.263 min Scan# 540
Delta R.T. 0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

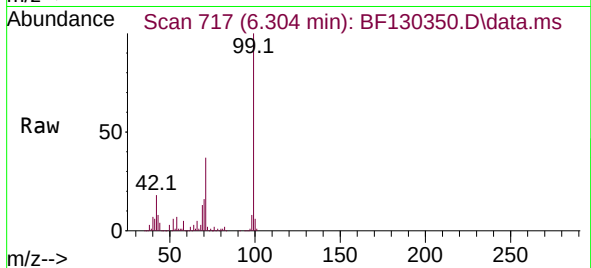
Tgt Ion:112 Resp: 426981
Ion Ratio Lower Upper
112 100
64 56.5 51.4 77.0
63 31.9 28.8 43.2





#7
Phenol-d6
Concen: 95.676 ng
RT: 6.304 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

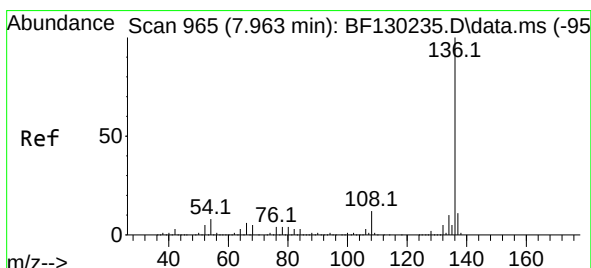
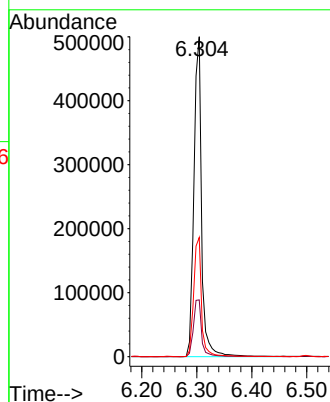
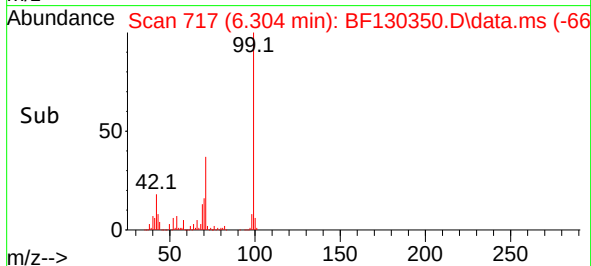
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



Tgt Ion: 99 Resp: 486234
Ion Ratio Lower Upper
99 100
42 17.7 17.0 25.6
71 37.2 32.3 48.5

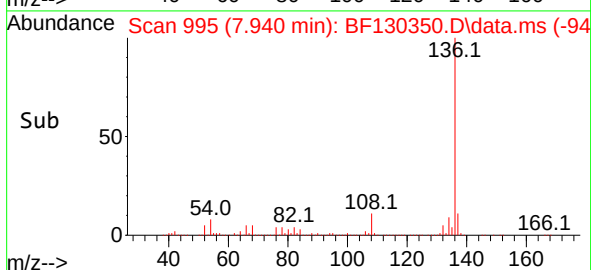
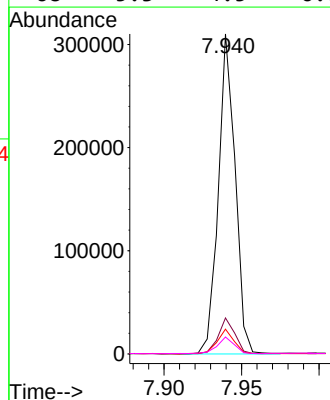
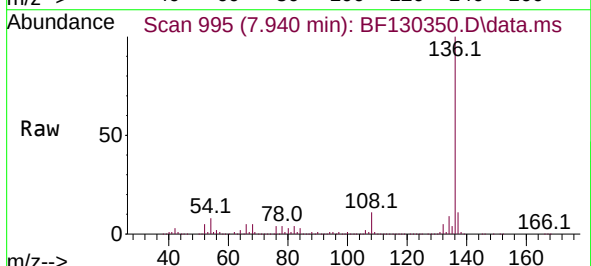
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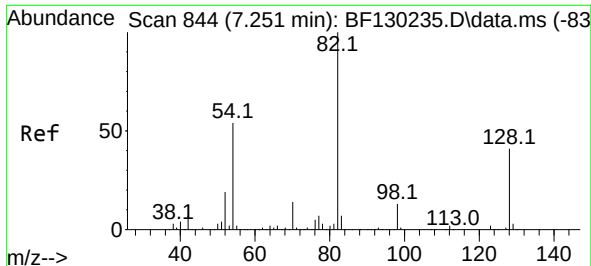
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.940 min Scan# 995
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Tgt Ion:136 Resp: 234109
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 7.7 7.1 10.7
68 5.3 4.5 6.7





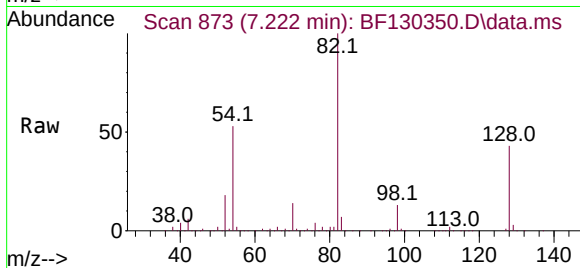
#23
Nitrobenzene-d5
Concen: 64.464 ng
RT: 7.222 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922

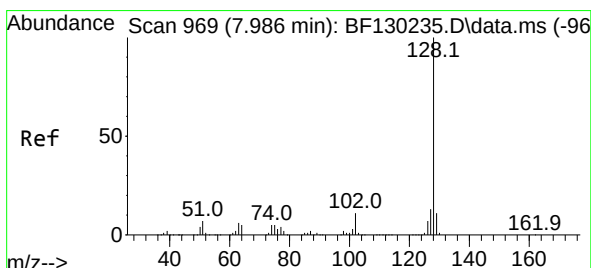
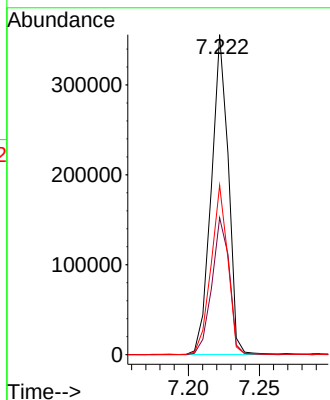
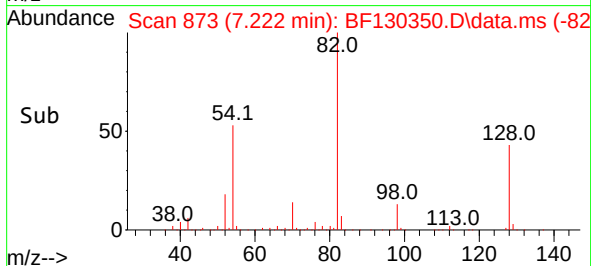


Tgt Ion: 82 Resp: 295402
Ion Ratio Lower Upper
82 100
128 42.8 32.6 49.0
54 52.9 43.8 65.6

Manual Integrations

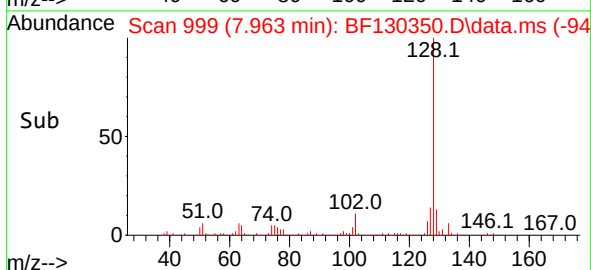
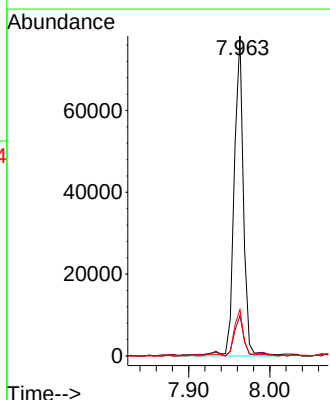
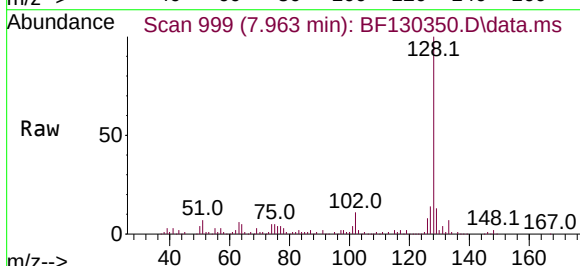
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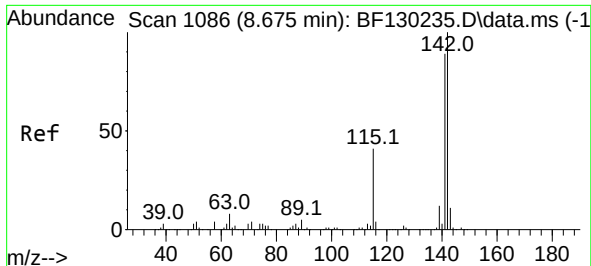
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#31
Naphthalene
Concen: 5.151 ng
RT: 7.963 min Scan# 999
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Tgt Ion:128 Resp: 62130
Ion Ratio Lower Upper
128 100
129 12.6 9.1 13.7
127 14.5 10.6 16.0





#37

2-Methylnaphthalene

Concen: 5.712 ng

RT: 8.651 min Scan# 1116

Delta R.T. -0.006 min

Lab File: BF130350.D

Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922

Tgt Ion:142 Resp: 43923

Ion Ratio Lower Upper

142 100

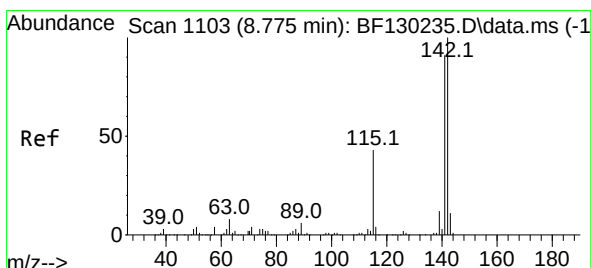
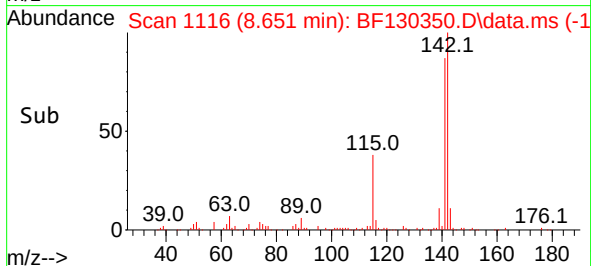
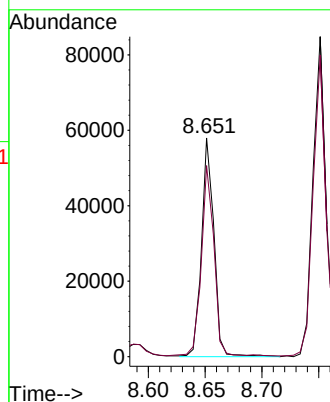
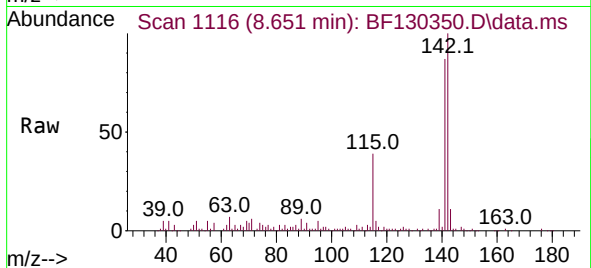
141 87.3 70.0 105.0

Manual Integrations

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Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#38

1-Methylnaphthalene

Concen: 8.886 ng

RT: 8.751 min Scan# 1133

Delta R.T. -0.006 min

Lab File: BF130350.D

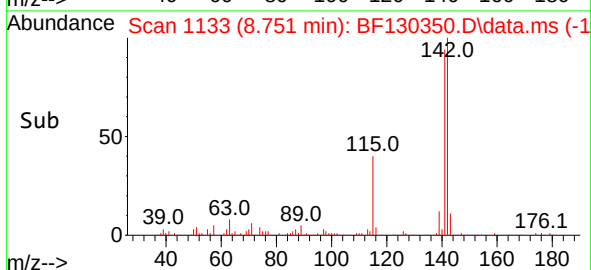
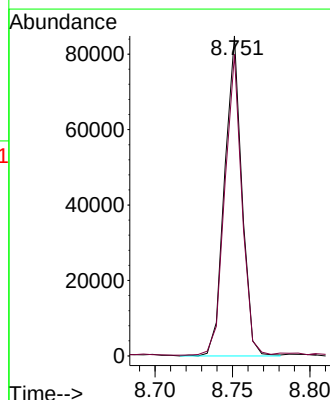
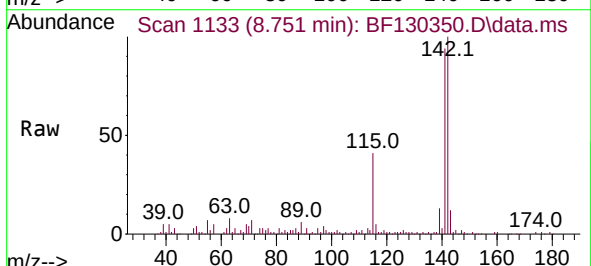
Acq: 20 Sep 2022 18:23

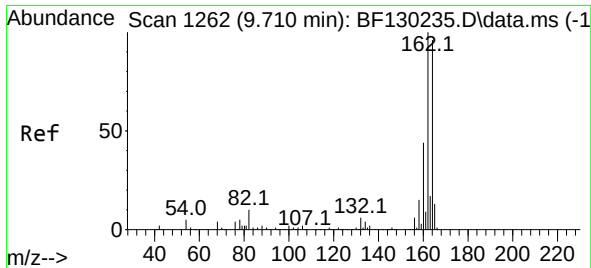
Tgt Ion:142 Resp: 65642

Ion Ratio Lower Upper

142 100

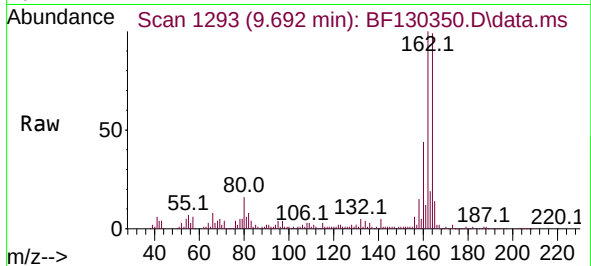
141 94.2 73.8 110.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.692 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

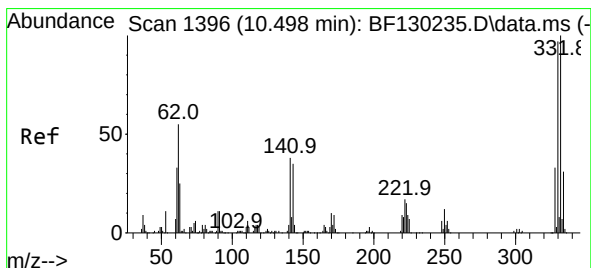
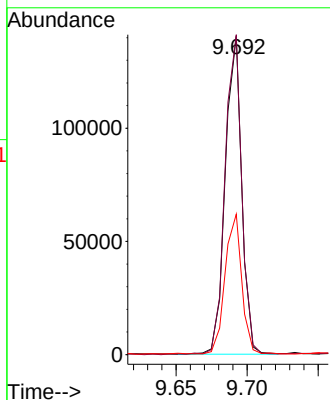
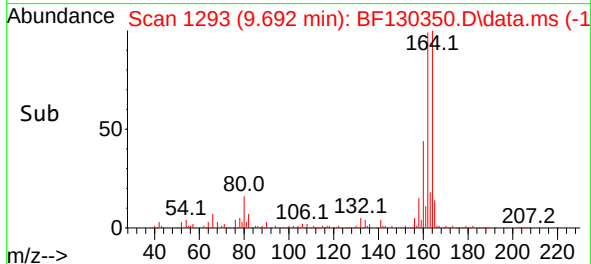
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



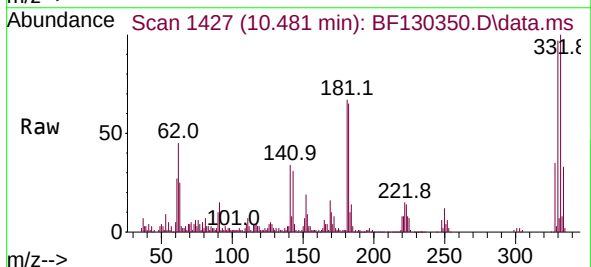
Tgt Ion:164 Resp: 113079
Ion Ratio Lower Upper
164 100
162 100.5 81.4 122.0
160 44.1 36.2 54.4

Manual Integrations
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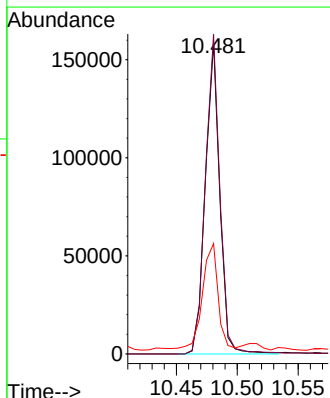
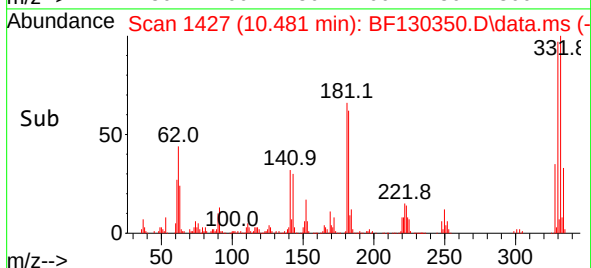
Reviewed By :Christian Giraldo 09/21/2022
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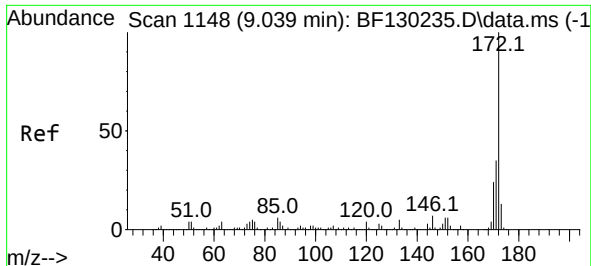


#42
2,4,6-Tribromophenol
Concen: 120.952 ng
RT: 10.481 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23



Tgt Ion:330 Resp: 131053
Ion Ratio Lower Upper
330 100
332 103.2 83.4 125.2
141 38.1 34.0 51.0





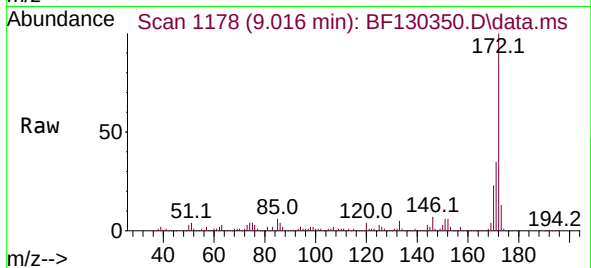
#45
2-Fluorobiphenyl
Concen: 63.849 ng
RT: 9.016 min Scan# 1148
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922

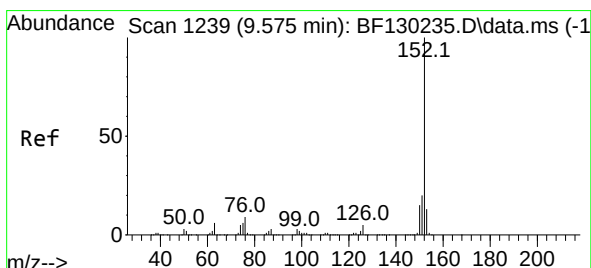
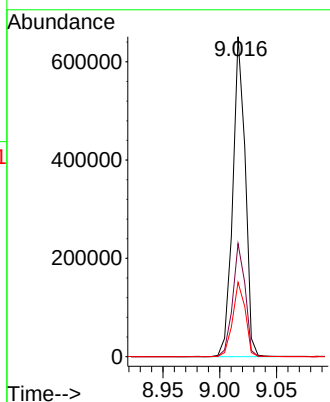
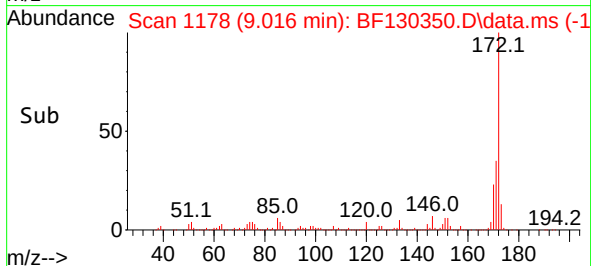


Tgt Ion:172 Resp: 495814
Ion Ratio Lower Upper
172 100
171 35.3 28.3 42.5
170 23.2 18.7 28.1

Manual Integrations

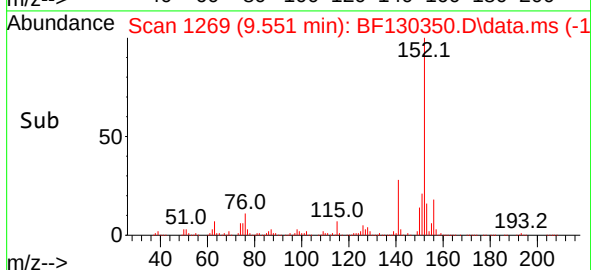
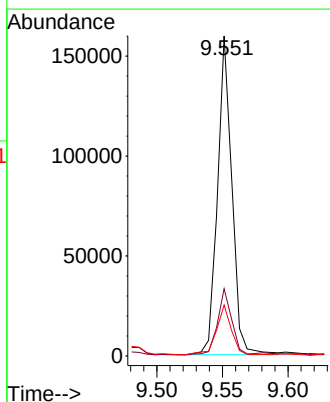
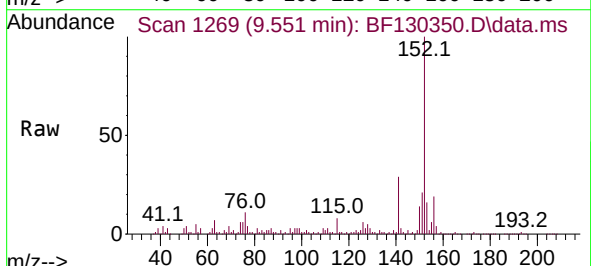
APPROVED

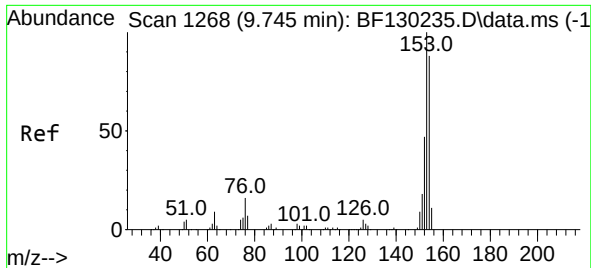
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#49
Acenaphthylene
Concen: 11.916 ng
RT: 9.551 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Tgt Ion:152 Resp: 122057
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.2
153 15.9 10.6 15.8





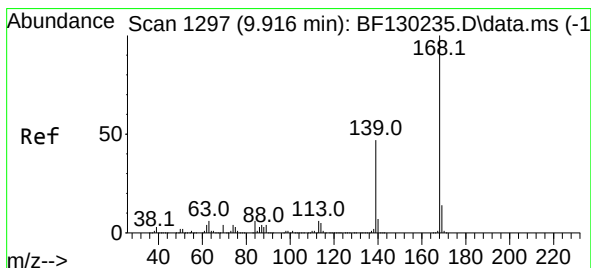
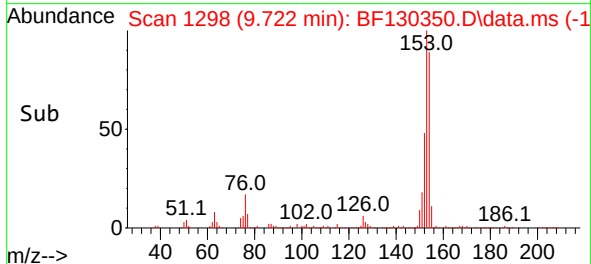
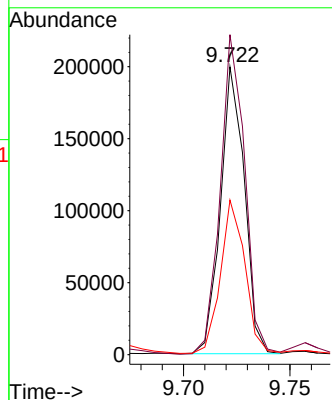
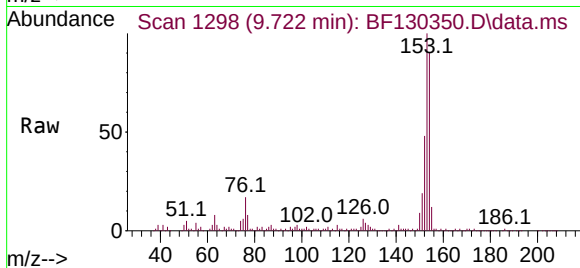
#52
Acenaphthene
Concen: 23.126 ng
RT: 9.722 min Scan# 1268
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Instrument :
BNA_F
ClientSampleId :
OR-03-091922

Tgt Ion:154 Resp: 155639
Ion Ratio Lower Upper
154 100
153 111.2 90.6 136.0
152 53.7 43.8 65.6

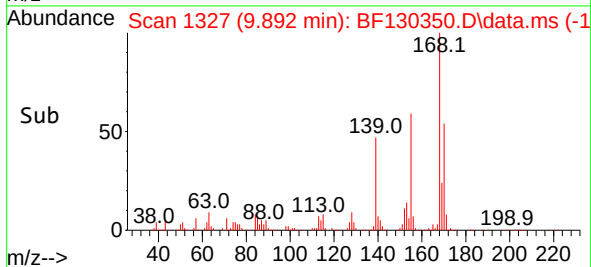
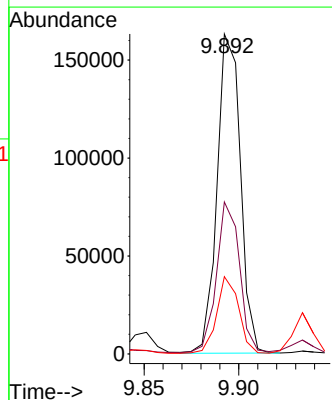
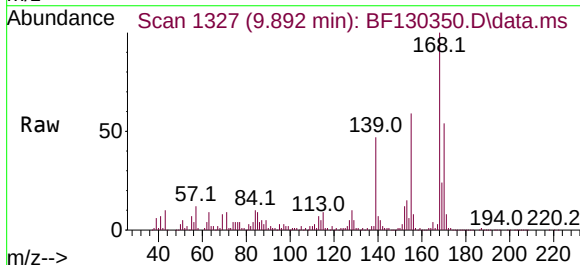
Manual Integrations
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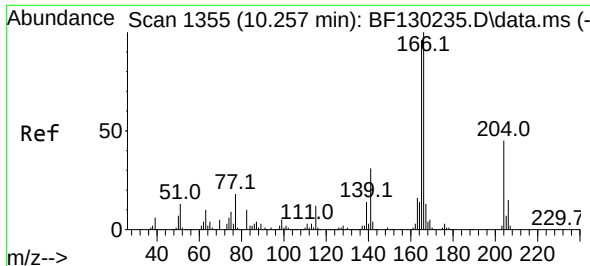
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#55
Dibenzofuran
Concen: 14.942 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

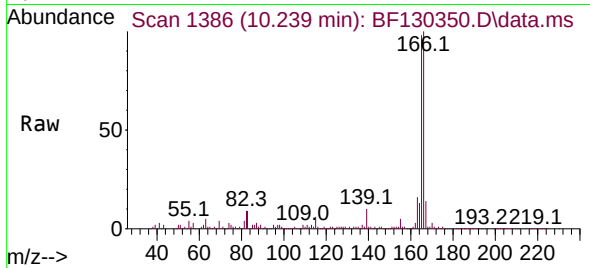
Tgt Ion:168 Resp: 139871
Ion Ratio Lower Upper
168 100
139 47.5 35.0 52.4
169 24.1 10.9 16.3#





#58
Fluorene
Concen: 32.816 ng
RT: 10.239 min Scan# 1355
Delta R.T. 0.000 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

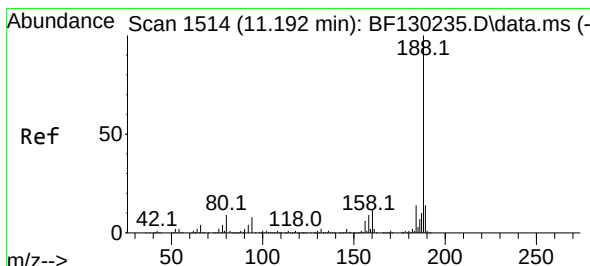
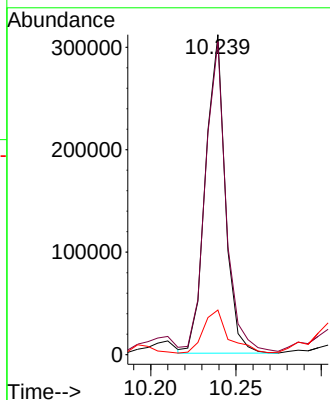
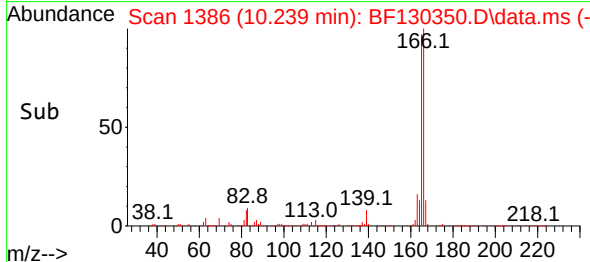
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



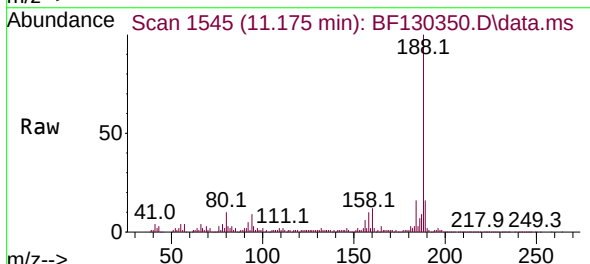
Tgt Ion:166 Resp: 251224
Ion Ratio Lower Upper
166 100
165 97.8 78.8 118.2
167 13.9 10.6 15.8

Manual Integrations
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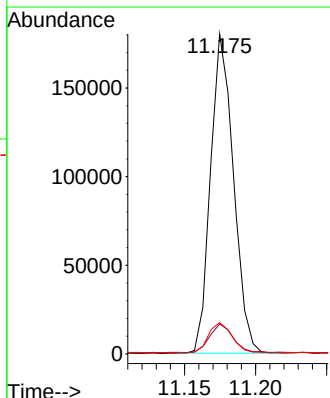
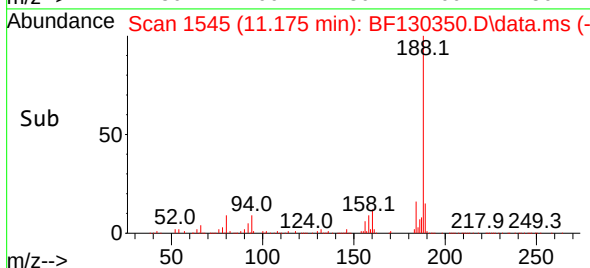
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022

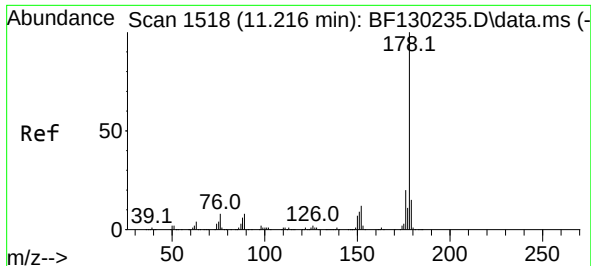


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.175 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23



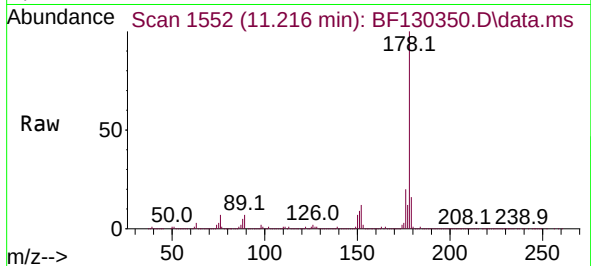
Tgt Ion:188 Resp: 202561
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.2
80 9.8 7.9 11.9





#71
Phenanthrene
Concen: 275.258 ng
RT: 11.216 min Scan# 1518
Delta R.T. 0.018 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

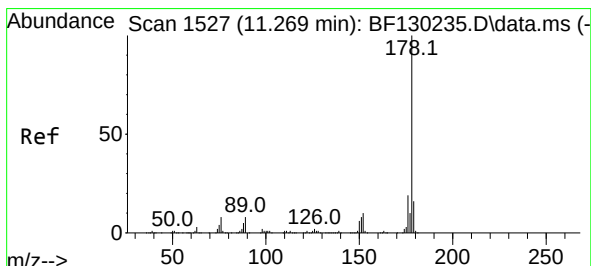
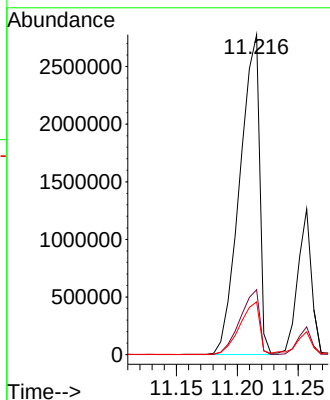
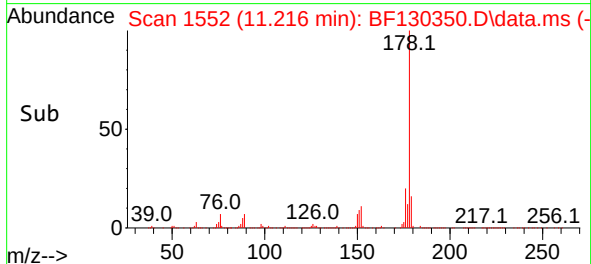
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



Tgt Ion:178 Resp: 3130406
Ion Ratio Lower Upper
178 100
176 20.3 15.4 23.0
179 16.5 12.4 18.6

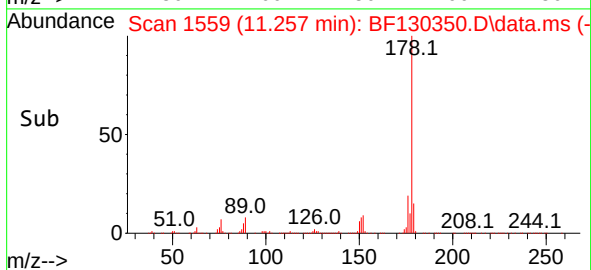
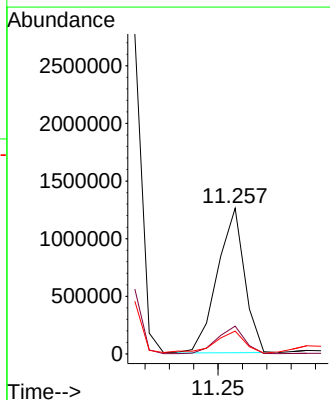
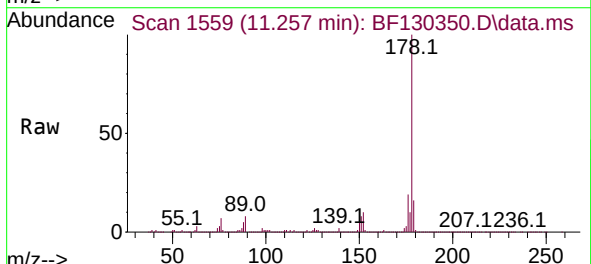
Manual Integrations
APPROVED

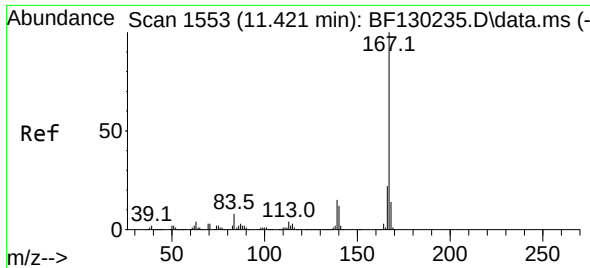
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#72
Anthracene
Concen: 89.011 ng
RT: 11.257 min Scan# 1559
Delta R.T. 0.006 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

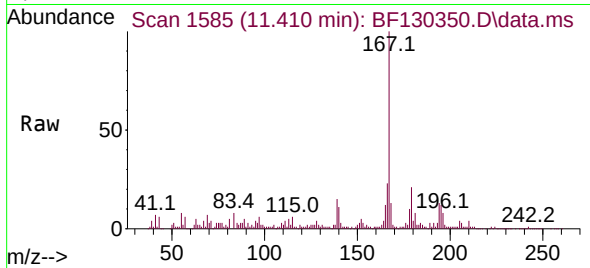
Tgt Ion:178 Resp: 976879
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.6 12.7 19.1





#73
 Carbazole
 Concen: 8.296 ng
 RT: 11.410 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF130350.D
 Acq: 20 Sep 2022 18:23

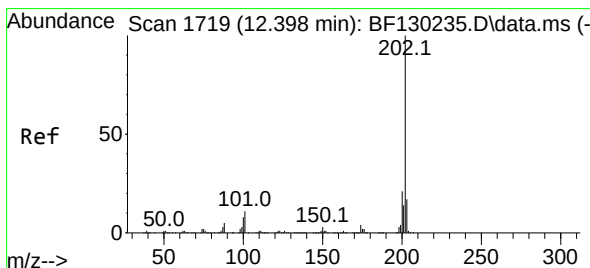
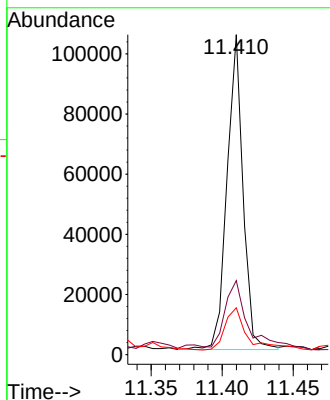
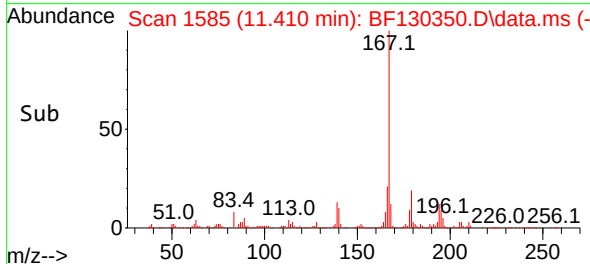
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091922



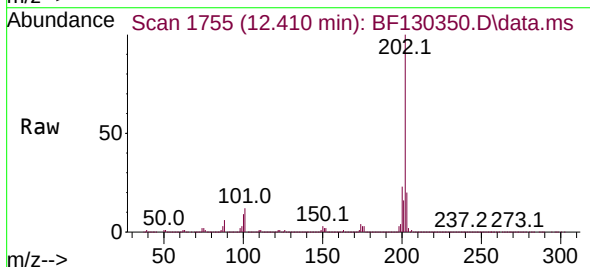
Tgt Ion:167 Resp: 82165
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.4 26.2
 139 14.6 11.6 17.4

Manual Integrations
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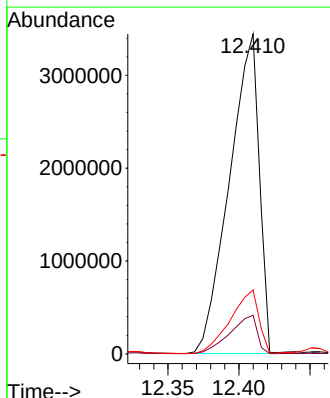
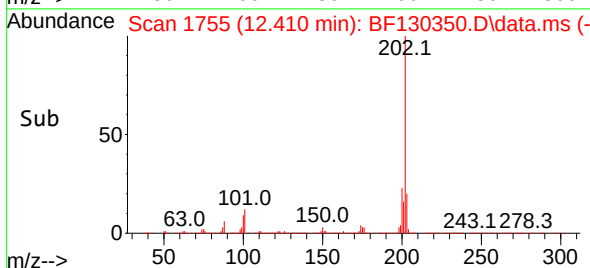
Reviewed By :Christian Giraldo 09/21/2022
 Supervised By :Jagrut Upadhyay 09/21/2022

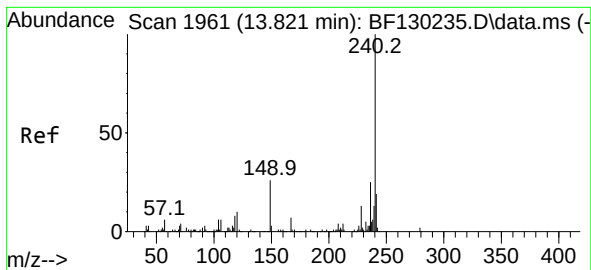


#75
 Fluoranthene
 Concen: 455.595 ng
 RT: 12.410 min Scan# 1755
 Delta R.T. 0.030 min
 Lab File: BF130350.D
 Acq: 20 Sep 2022 18:23



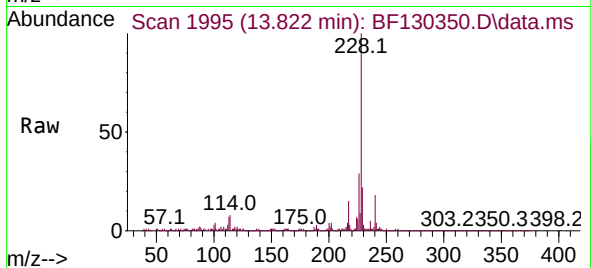
Tgt Ion:202 Resp: 5006680
 Ion Ratio Lower Upper
 202 100
 101 12.1 0.0 31.8
 203 20.0 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.822 min Scan# 1961
Delta R.T. 0.018 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

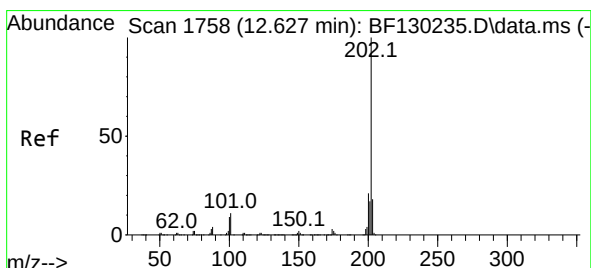
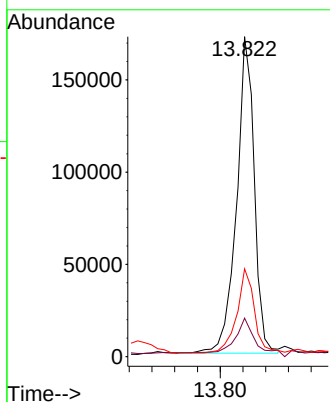
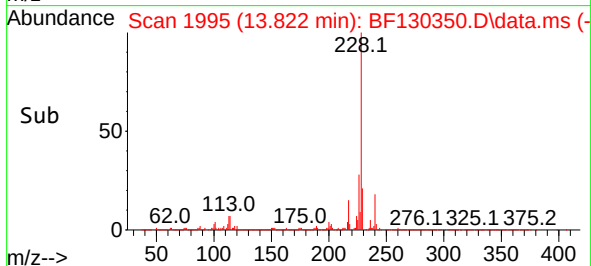
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



Tgt Ion:240 Resp: 185622
Ion Ratio Lower Upper
240 100
120 12.0 8.7 13.1
236 27.4 20.9 31.3

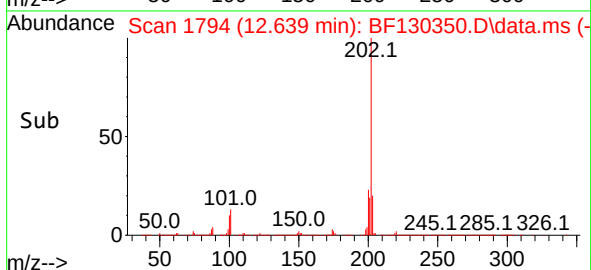
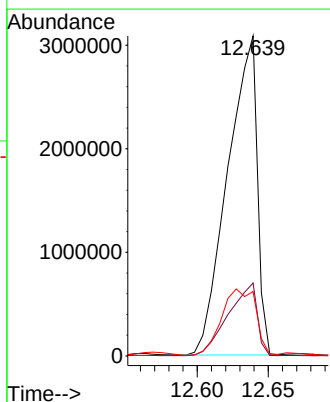
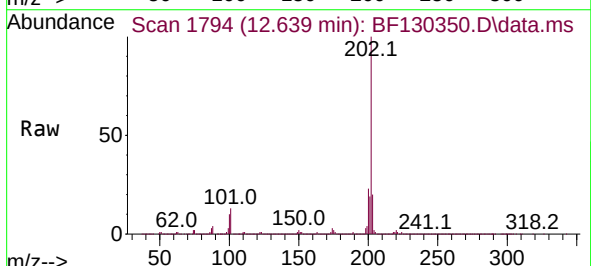
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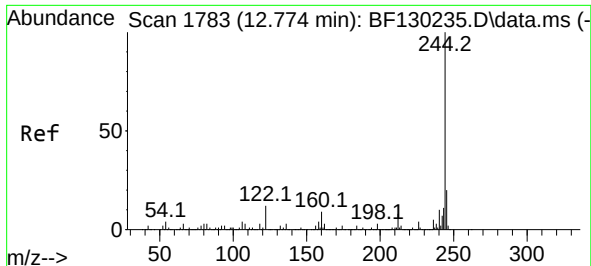
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#78
Pyrene
Concen: 274.225 ng
RT: 12.639 min Scan# 1794
Delta R.T. 0.030 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Tgt Ion:202 Resp: 4452948
Ion Ratio Lower Upper
202 100
200 22.8 17.2 25.8
203 20.1 14.3 21.5





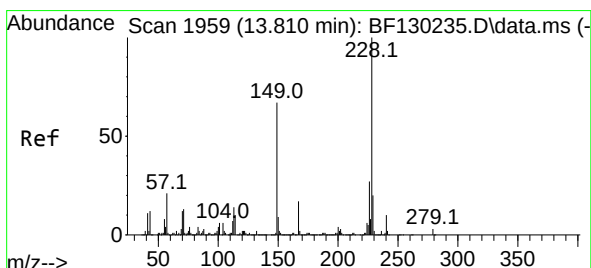
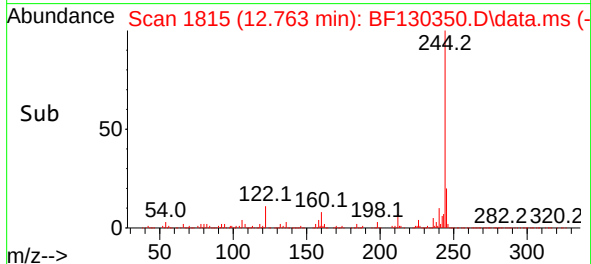
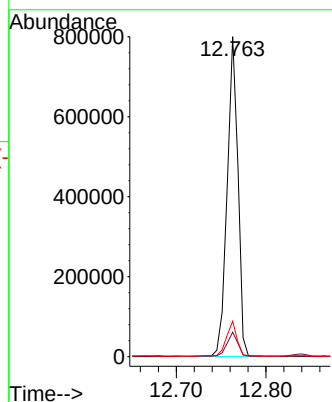
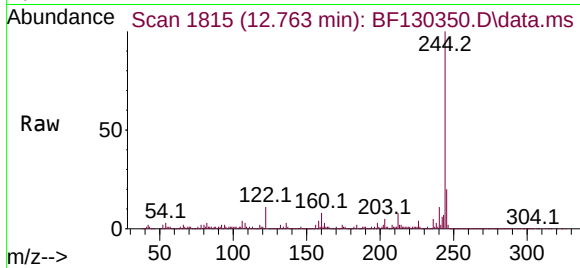
#79
 Terphenyl-d14
 Concen: 59.703 ng
 RT: 12.763 min Scan# 1815
 Delta R.T. 0.006 min
 Lab File: BF130350.D
 Acq: 20 Sep 2022 18:23

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091922

Tgt Ion:244 Resp: 66902
 Ion Ratio Lower Upper
 244 100
 212 7.6 5.9 8.9
 122 11.1 8.5 12.7

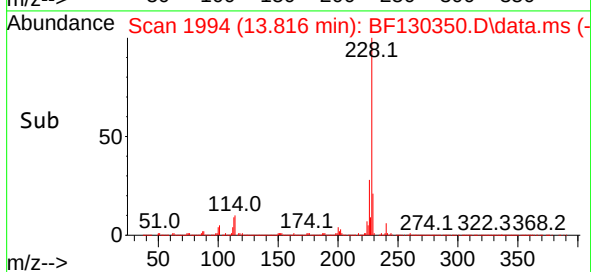
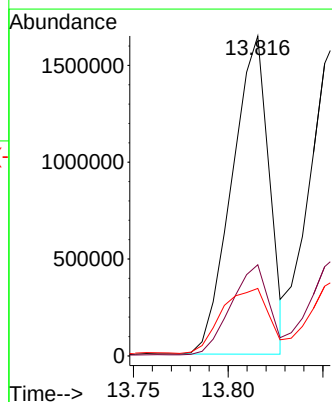
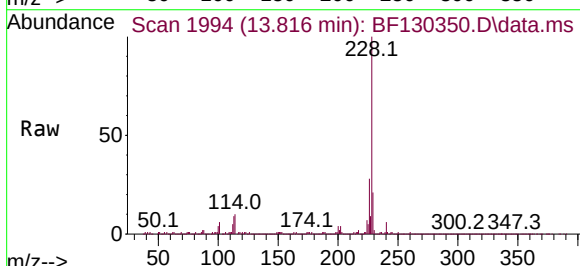
Manual Integrations
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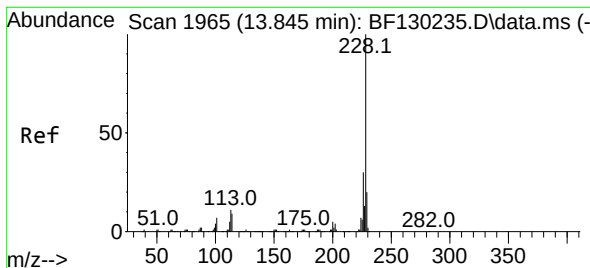
Reviewed By :Christian Giraldo 09/21/2022
 Supervised By :Jagrut Upadhyay 09/21/2022



#81
 Benzo(a)anthracene
 Concen: 181.266 ng
 RT: 13.816 min Scan# 1994
 Delta R.T. 0.024 min
 Lab File: BF130350.D
 Acq: 20 Sep 2022 18:23

Tgt Ion:228 Resp: 2238357
 Ion Ratio Lower Upper
 228 100
 226 28.5 21.9 32.9
 229 21.1 16.1 24.1





#83

Chrysene

Concen: 162.976 ng m

RT: 13.857 min Scan# 20

Delta R.T. 0.030 min

Lab File: BF130350.D

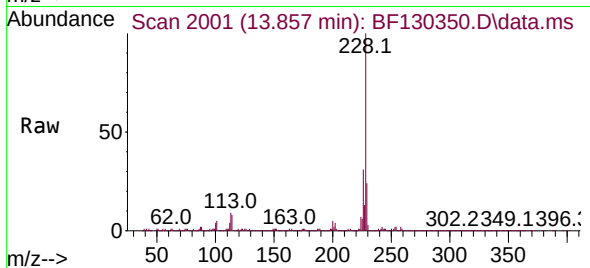
Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922



Tgt Ion:228 Resp: 1910872

Ion Ratio Lower Upper

228 100

226 31.2 23.8 35.8

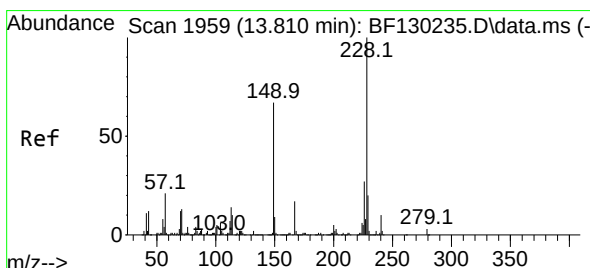
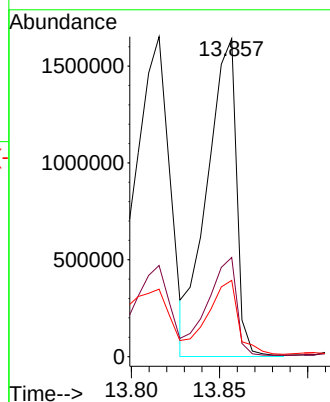
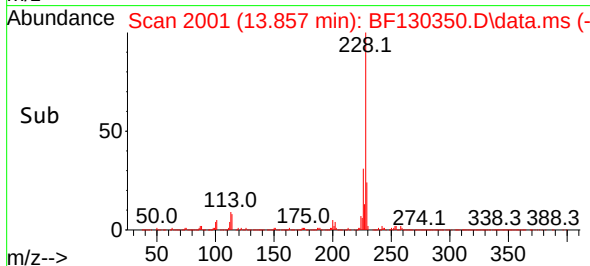
229 24.0 15.3 22.9

Manual Integrations

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Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.819 ng

RT: 13.804 min Scan# 1992

Delta R.T. 0.012 min

Lab File: BF130350.D

Acq: 20 Sep 2022 18:23

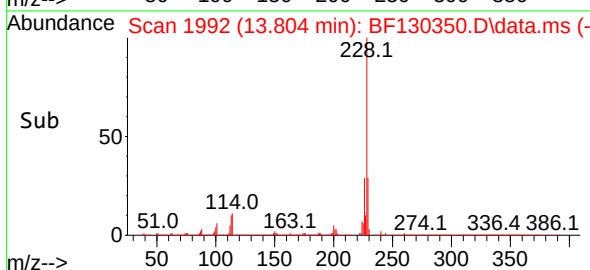
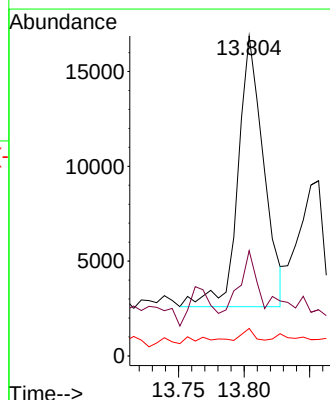
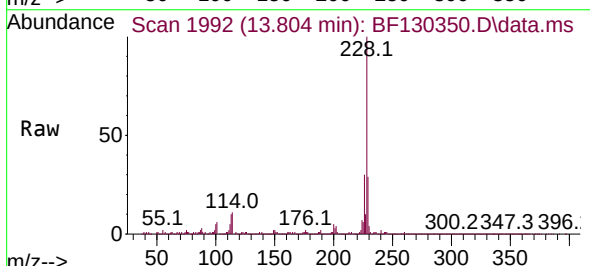
Tgt Ion:149 Resp: 19423

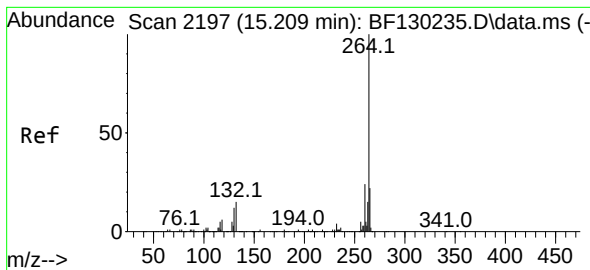
Ion Ratio Lower Upper

149 100

167 32.9 20.5 30.7#

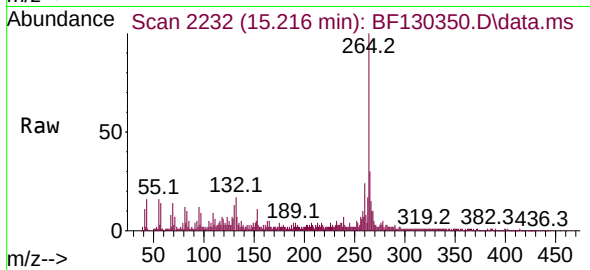
279 8.6 2.9 4.3#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.216 min Scan# 2197
Delta R.T. 0.030 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

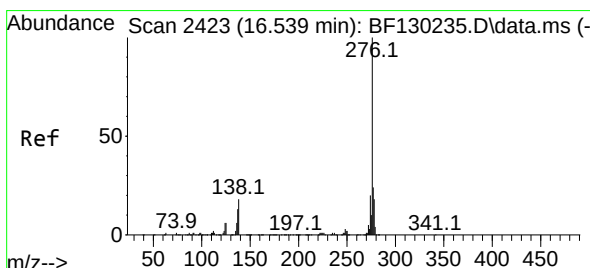
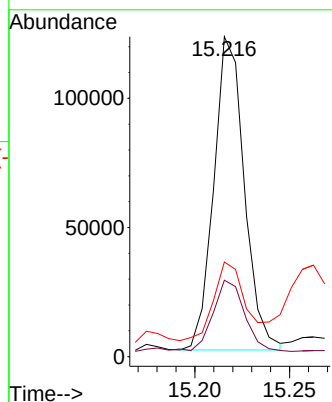
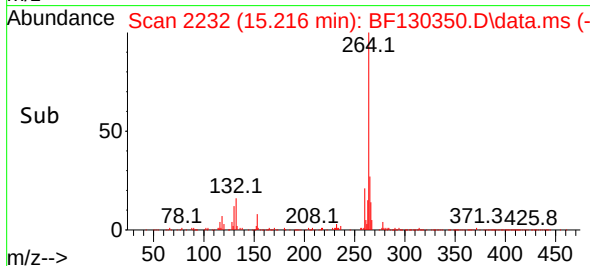
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



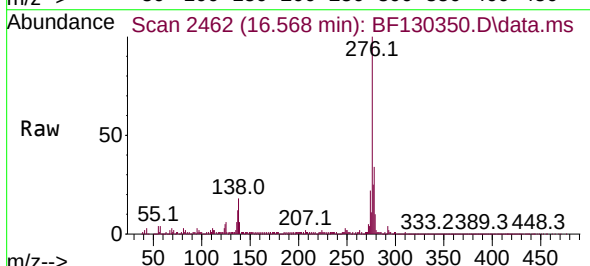
Tgt Ion:264 Resp: 136208
Ion Ratio Lower Upper
264 100
260 23.9 19.3 28.9
265 29.6 17.0 25.4

Manual Integrations
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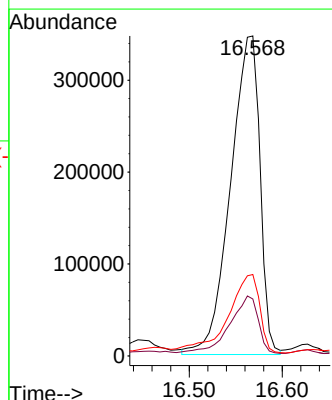
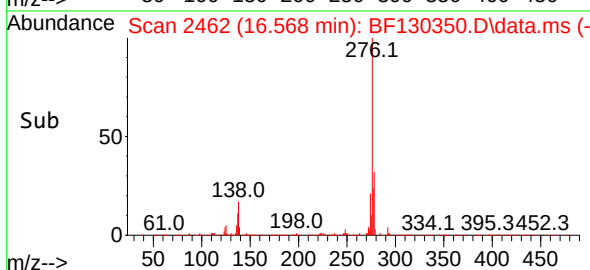
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022

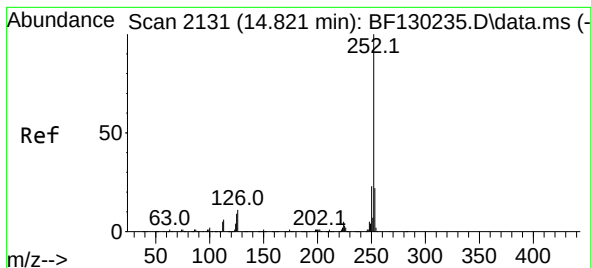


#87
Indeno(1,2,3-cd)pyrene
Concen: 78.952 ng m
RT: 16.568 min Scan# 2462
Delta R.T. 0.059 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23



Tgt Ion:276 Resp: 762603
Ion Ratio Lower Upper
276 100
138 3.1 18.5 27.7#
277 4.3 20.2 30.4#





#88

Benzo(b)fluoranthene

Concen: 227.761 ng m

RT: 14.833 min Scan# 2117

Delta R.T. 0.035 min

Lab File: BF130350.D

Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922

Tgt Ion:252 Resp: 2024854

Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

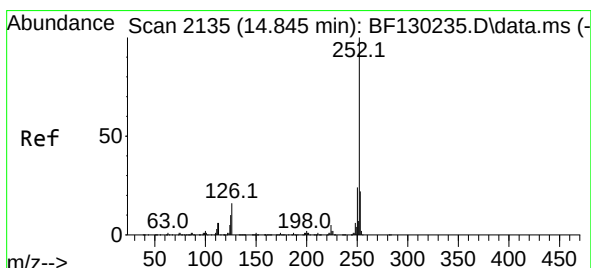
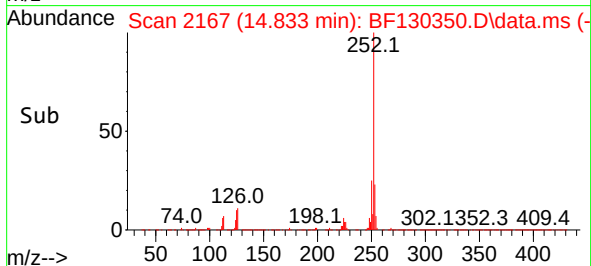
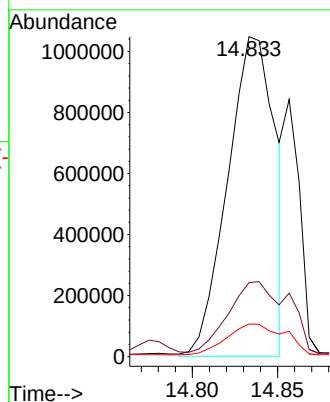
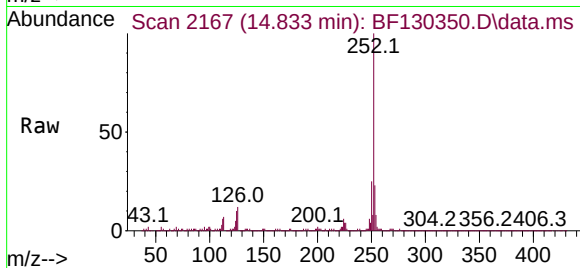
125 10.2 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#89

Benzo(k)fluoranthene

Concen: 60.475 ng m

RT: 14.857 min Scan# 2171

Delta R.T. 0.030 min

Lab File: BF130350.D

Acq: 20 Sep 2022 18:23

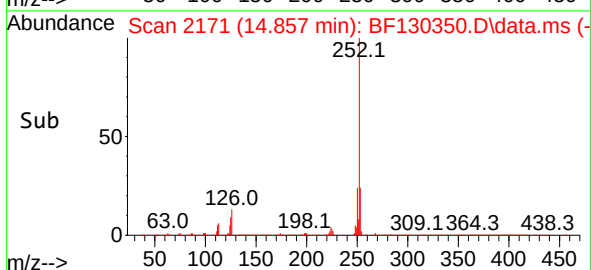
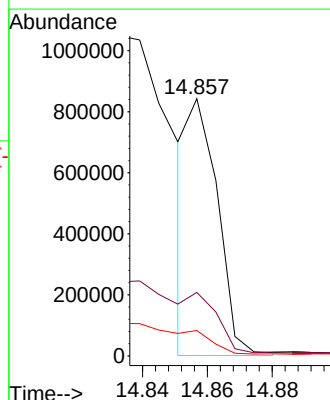
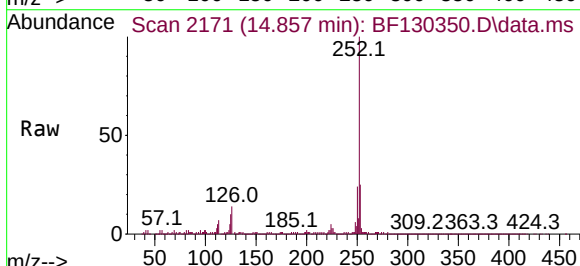
Tgt Ion:252 Resp: 528876

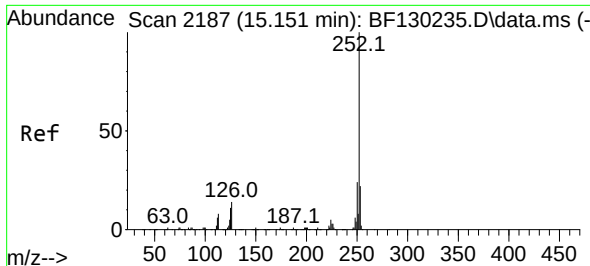
Ion Ratio Lower Upper

252 100

253 24.7 17.4 26.2

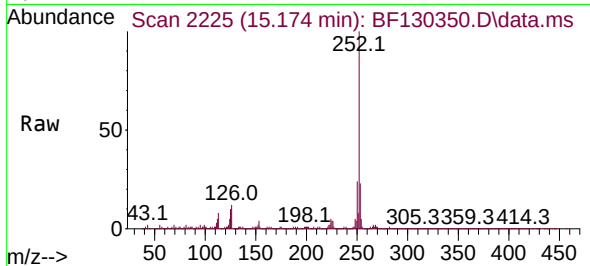
125 9.8 7.9 11.9





#90
Benzo(a)pyrene
Concen: 194.686 ng
RT: 15.174 min Scan# 2187
Delta R.T. 0.041 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

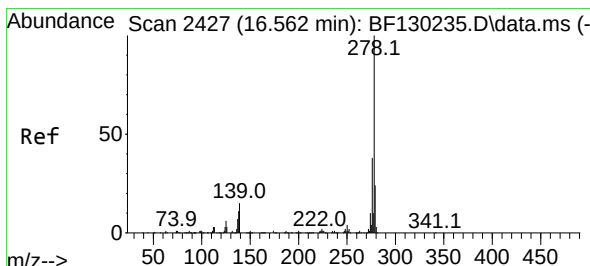
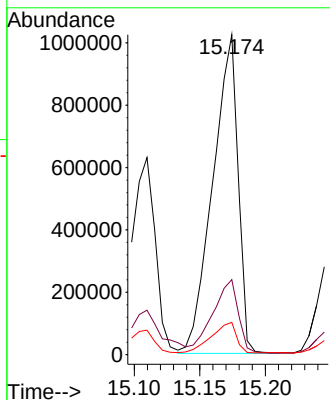
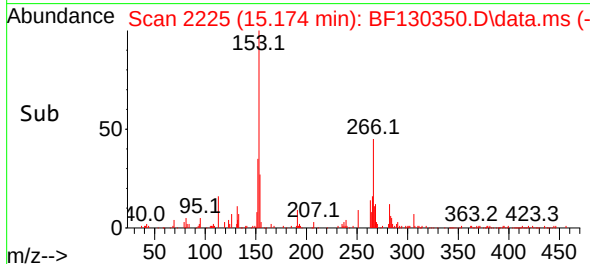
Instrument :
BNA_F
ClientSampleId :
OR-03-091922



Tgt Ion:252 Resp: 1371209
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.6
125 10.1 9.0 13.6

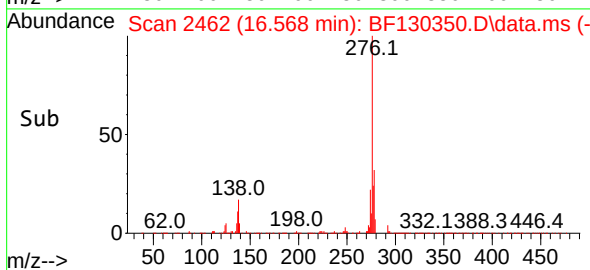
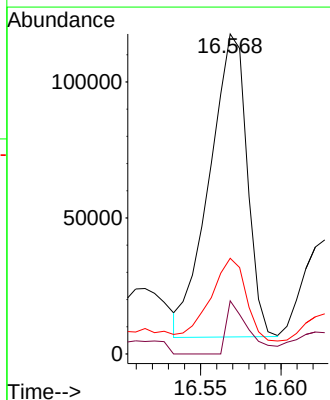
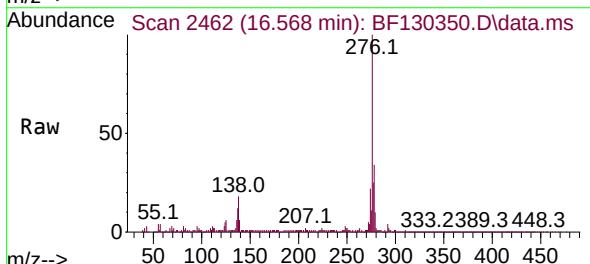
Manual Integrations
APPROVED

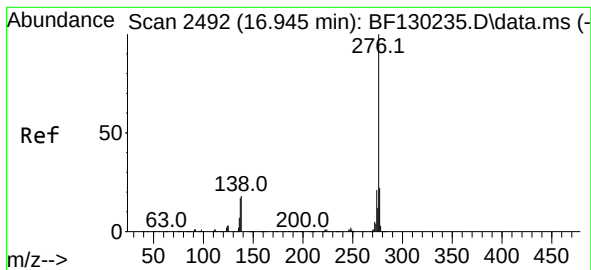
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#91
Dibenzo(a,h)anthracene
Concen: 22.948 ng m
RT: 16.568 min Scan# 2462
Delta R.T. 0.041 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Tgt Ion:278 Resp: 181833
Ion Ratio Lower Upper
278 100
139 16.6 11.8 17.8
279 29.9 19.4 29.0#





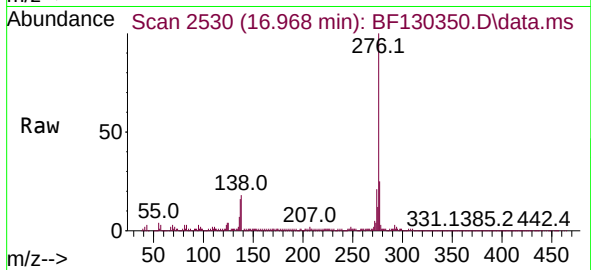
#92
Benzo(g,h,i)perylene
Concen: 85.327 ng
RT: 16.968 min Scan# 21
Delta R.T. 0.059 min
Lab File: BF130350.D
Acq: 20 Sep 2022 18:23

Instrument :

BNA_F

ClientSampleId :

OR-03-091922



Tgt Ion:276 Resp: 68108
Ion Ratio Lower Upper
276 100
277 24.6 18.6 27.8
138 18.0 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022

