

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071222\
 Data File : BF129202.D
 Acq On : 12 Jul 2022 22:06
 Operator : CG\JU
 Sample : N3645-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-070822

Quant Time: Jul 13 01:58:47 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 12 14:13:54 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 07/13/2022
 Supervised By : Jagrut Upadhyay 07/13/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.934	152	274911	20.000	ng	0.00
21) Naphthalene-d8	8.216	136	980005	20.000	ng	# 0.00
39) Acenaphthene-d10	9.975	164	340667	20.000	ng	0.00
64) Phenanthrene-d10	11.469	188	587522	20.000	ng	0.00
76) Chrysene-d12	14.121	240	400475	20.000	ng	0.00
86) Perylene-d12	15.639	264	315370	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.551	112	442020	27.183	ng	-0.01
7) Phenol-d6	6.551	99	539541	26.716	ng	-0.02
23) Nitrobenzene-d5	7.492	82	307148	18.694	ng	-0.01
42) 2,4,6-Tribromophenol	10.763	330	92583	24.994	ng	-0.01
45) 2-Fluorobiphenyl	9.292	172	454562	21.346	ng	0.00
79) Terphenyl-d14	13.051	244	446961	23.177	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.239	128	193056	4.339	ng	99
37) 2-Methylnaphthalene	8.934	142	128011	4.276	ng	99
38) 1-Methylnaphthalene	9.028	142	146213	5.029	ng	99
49) Acenaphthylene	9.839	152	152485	5.306	ng	99
52) Acenaphthene	10.010	154	312304	16.683	ng	99
55) Dibenzofuran	10.181	168	238807	8.761	ng	100
58) Fluorene	10.528	166	383490m	18.188	ng	
71) Phenanthrene	11.498	178	2192908	78.118	ng	99
72) Anthracene	11.545	178	628210	22.698	ng	99
73) Carbazole	11.698	167	250303	9.025	ng	98
75) Fluoranthene	12.692	202	2386481	81.290	ng	97
78) Pyrene	12.927	202	2183252	78.650	ng	99
81) Benzo(a)anthracene	14.110	228	775129	31.700	ng	95
83) Chrysene	14.145	228	691120	30.445	ng	97
87) Indeno(1,2,3-cd)pyrene	17.186	276	219900m	11.369	ng	
88) Benzo(b)fluoranthene	15.192	252	596353m	31.443	ng	
89) Benzo(k)fluoranthene	15.215	252	173578m	9.436	ng	
90) Benzo(a)pyrene	15.574	252	428508	27.715	ng	94
91) Dibenzo(a,h)anthracene	17.198	278	56369	3.575	ng	# 72
92) Benzo(g,h,i)perylene	17.662	276	211811	13.389	ng	97

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

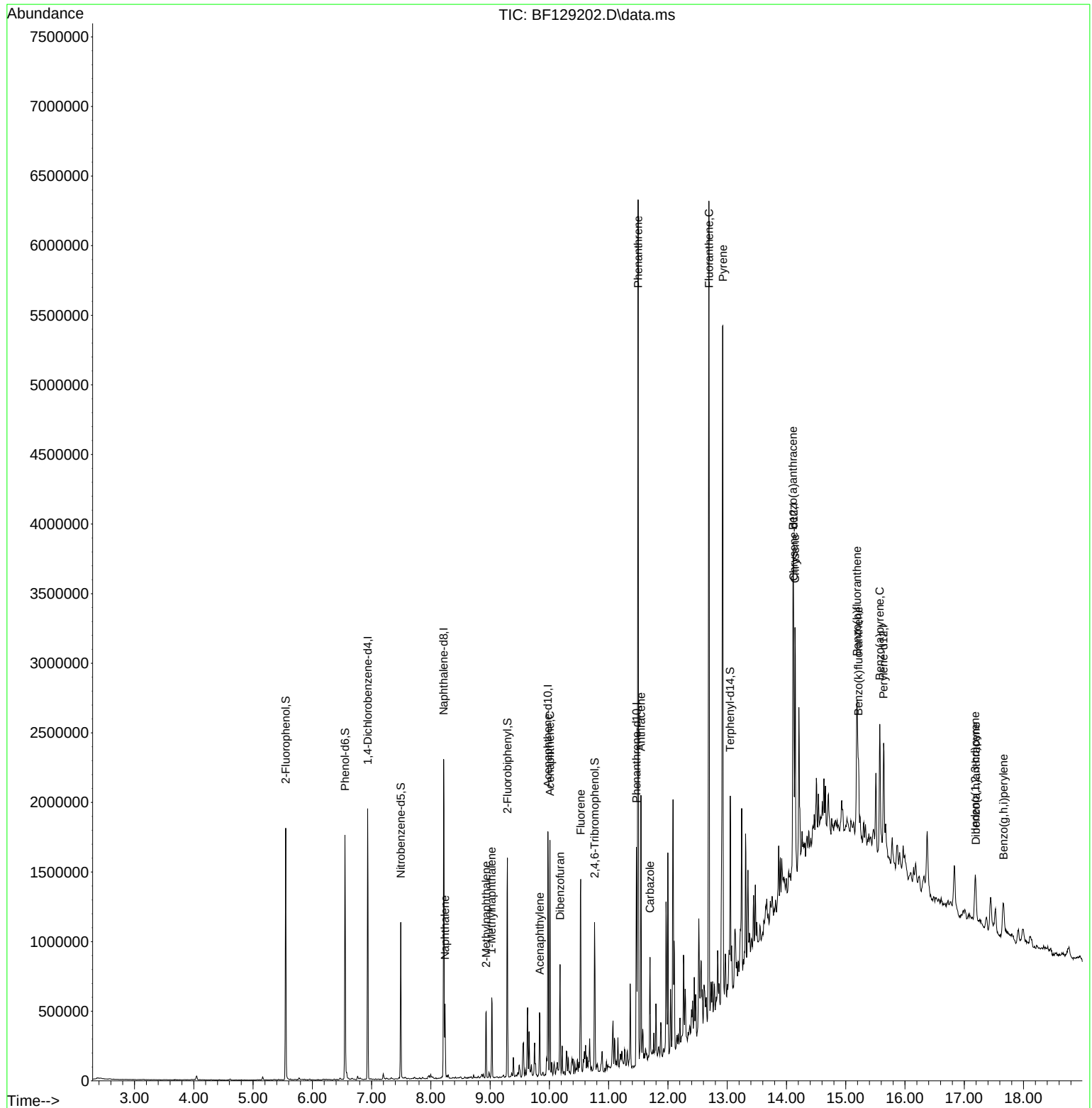
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071222\
Data File : BF129202.D
Acq On : 12 Jul 2022 22:06
Operator : CG\JU
Sample : N3645-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

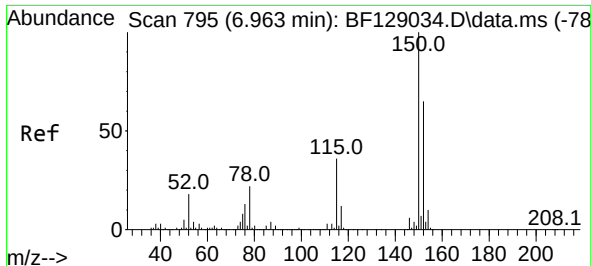
Instrument :
BNA_F
ClientSampleId :
NB-08-070822

Quant Time: Jul 13 01:58:47 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 12 14:13:54 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

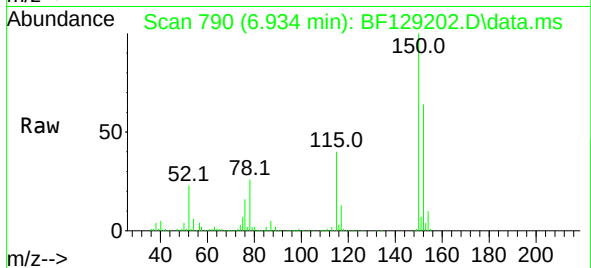
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.934 min Scan# 795
Delta R.T. -0.005 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

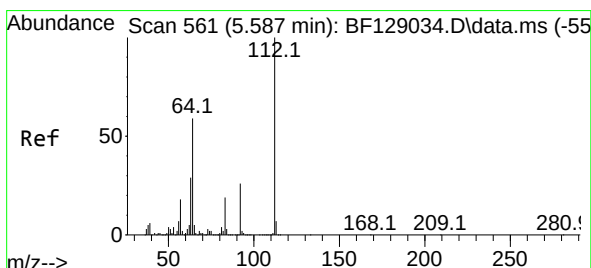
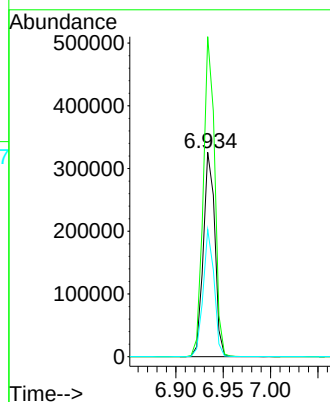
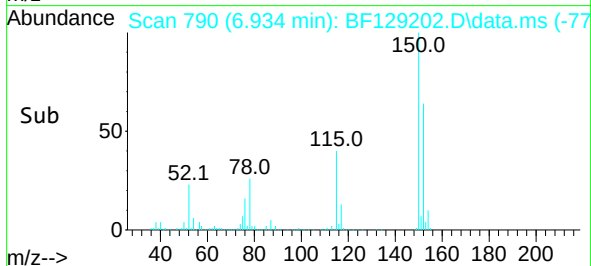
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BNA_F
ClientSampleId :
NB-08-070822



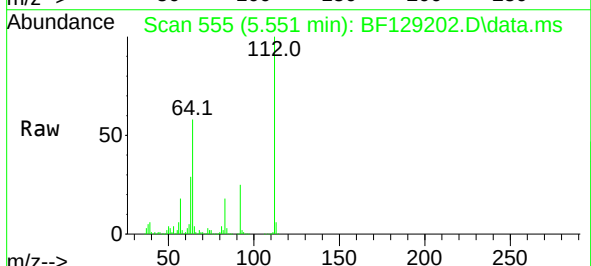
Tgt Ion:152 Resp: 27491
Ion Ratio Lower Upper
152 100
150 156.6 123.7 185.5
115 62.3 49.9 74.9

Manual Integrations
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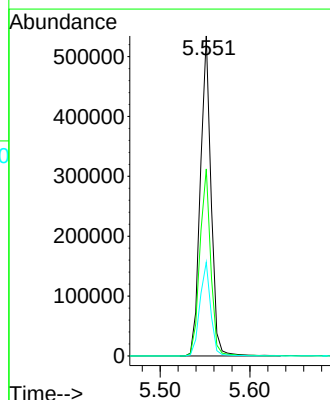
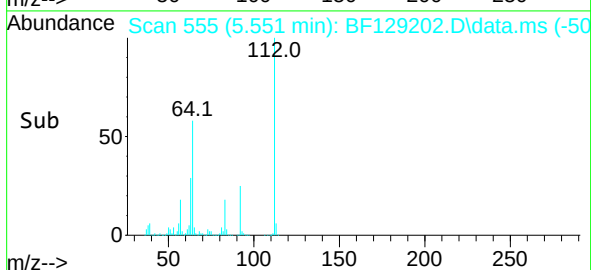
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022

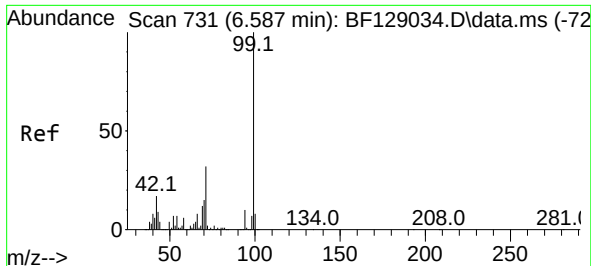


#5
2-Fluorophenol
Concen: 27.183 ng
RT: 5.551 min Scan# 555
Delta R.T. -0.012 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06



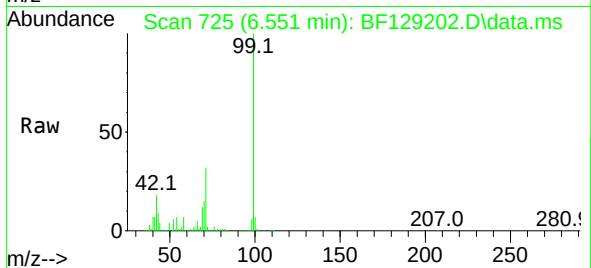
Tgt Ion:112 Resp: 442020
Ion Ratio Lower Upper
112 100
64 58.5 53.3 79.9
63 29.3 28.0 42.0





#7
Phenol-d6
Concen: 26.716 ng
RT: 6.551 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

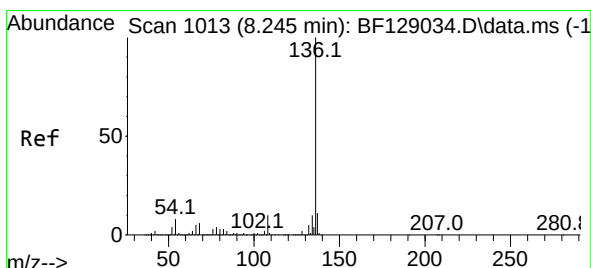
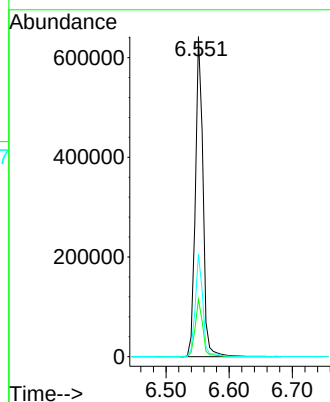
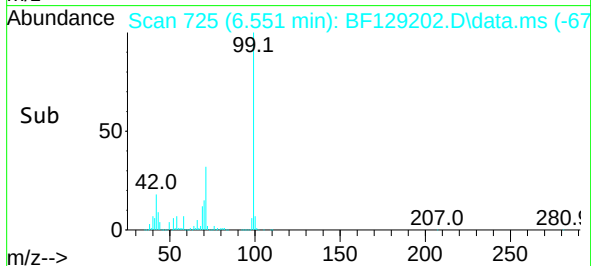
Instrument :
BNA_F
ClientSampleId :
NB-08-070822



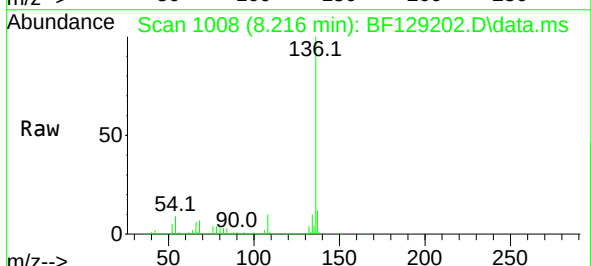
Tgt Ion: 99 Resp: 53954
Ion Ratio Lower Upper
99 100
42 17.9 17.3 25.9
71 32.1 28.9 43.3

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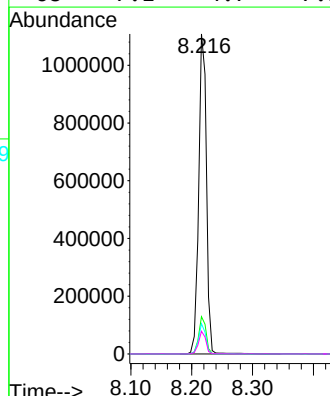
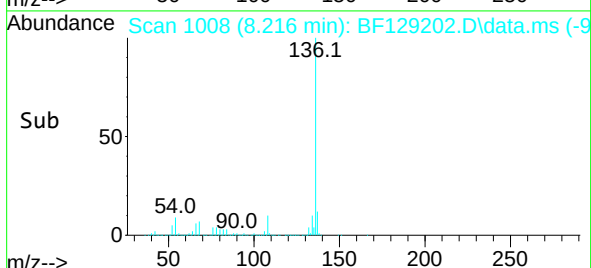
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022

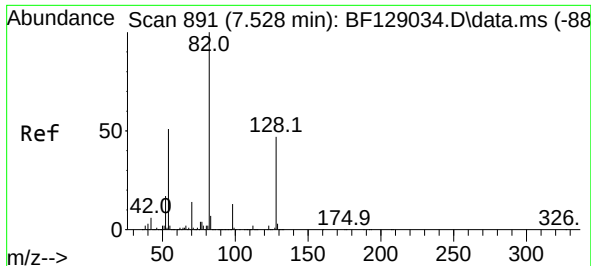


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.216 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06



Tgt Ion:136 Resp: 980005
Ion Ratio Lower Upper
136 100
137 11.7 8.8 13.2
54 9.5 7.5 11.3
68 7.1 4.7 7.1#





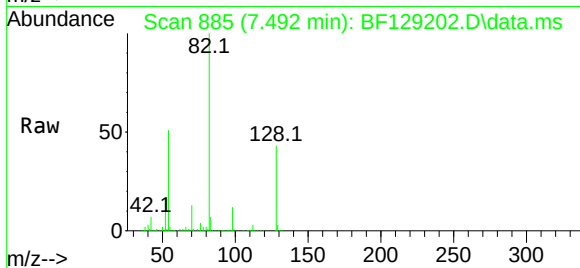
#23
Nitrobenzene-d5
Concen: 18.694 ng
RT: 7.492 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

ClientSampleId :

NB-08-070822

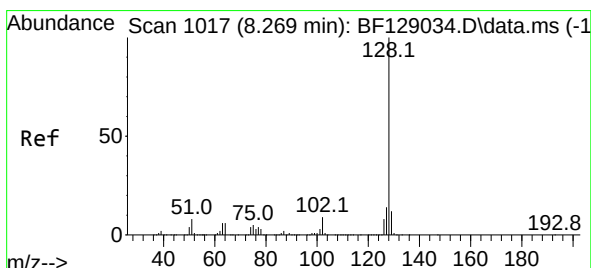
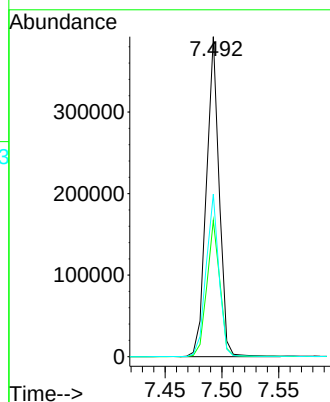
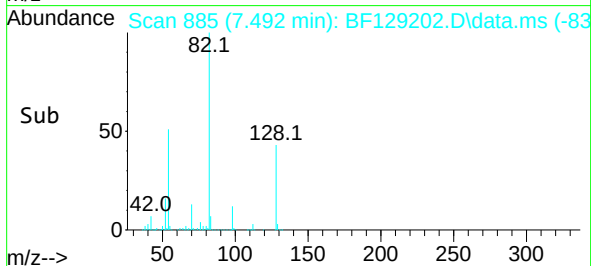


Tgt Ion: 82 Resp: 307148
Ion Ratio Lower Upper
82 100
128 42.6 34.0 51.0
54 50.8 46.9 70.3

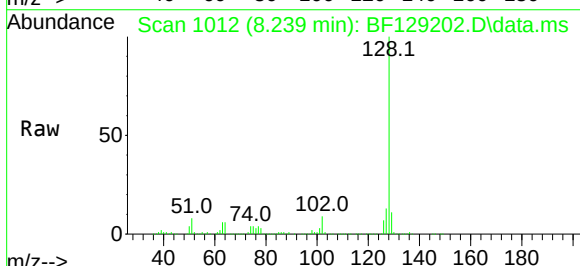
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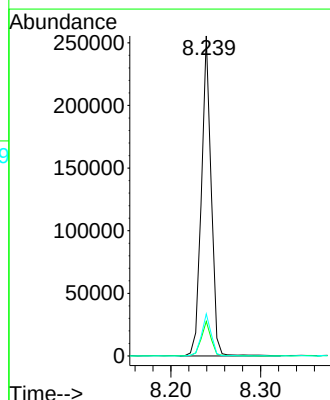
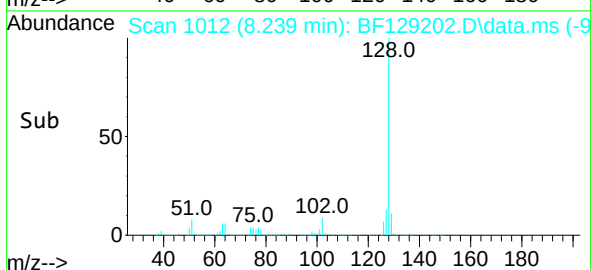
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022

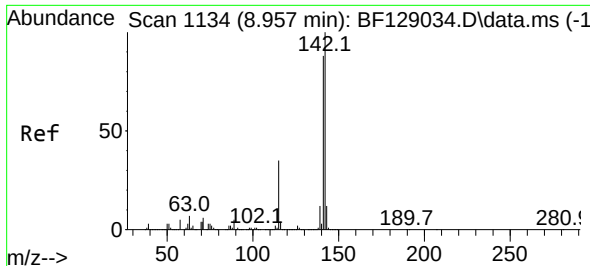


#31
Naphthalene
Concen: 4.339 ng
RT: 8.239 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06



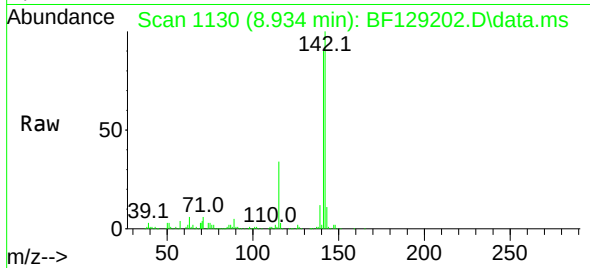
Tgt Ion:128 Resp: 193056
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 13.2 10.5 15.7





#37
2-Methylnaphthalene
Concen: 4.276 ng
RT: 8.934 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

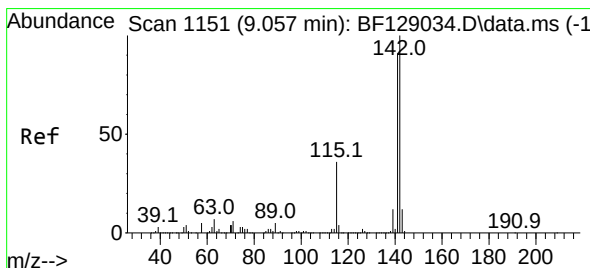
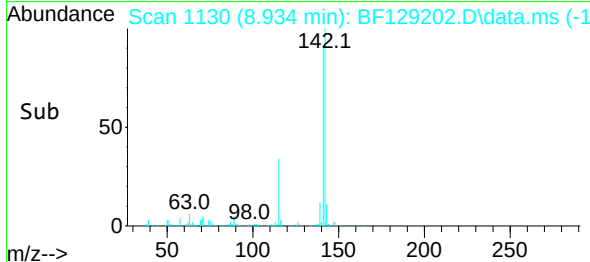
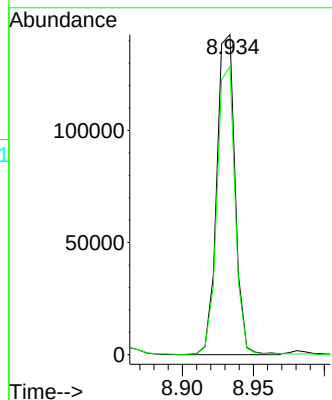
Instrument :
BNA_F
ClientSampleId :
NB-08-070822



Tgt Ion:142 Resp: 12801
Ion Ratio Lower Upper
142 100
141 90.0 71.0 106.4

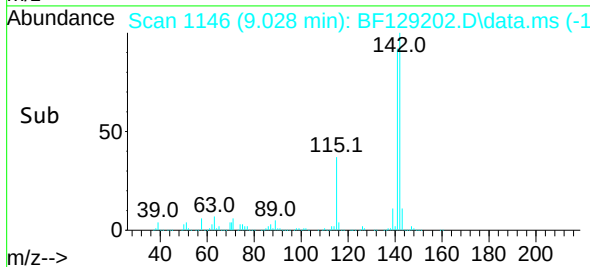
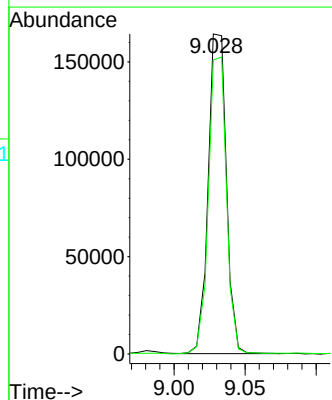
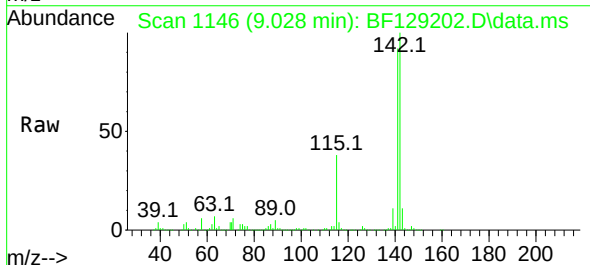
Manual Integrations
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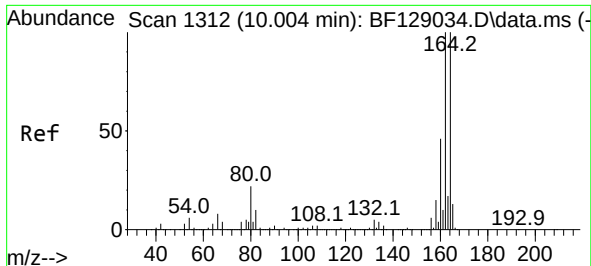
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#38
1-Methylnaphthalene
Concen: 5.029 ng
RT: 9.028 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion:142 Resp: 146213
Ion Ratio Lower Upper
142 100
141 91.9 74.2 111.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.975 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

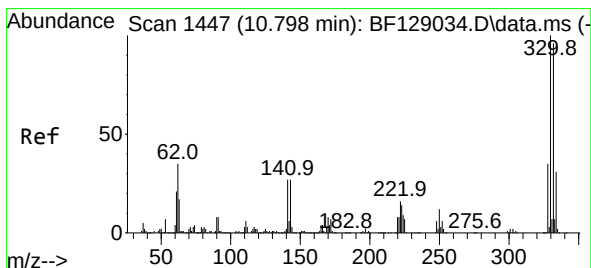
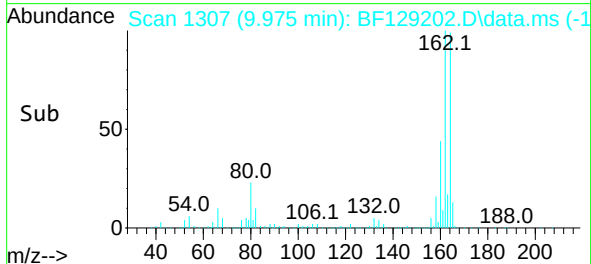
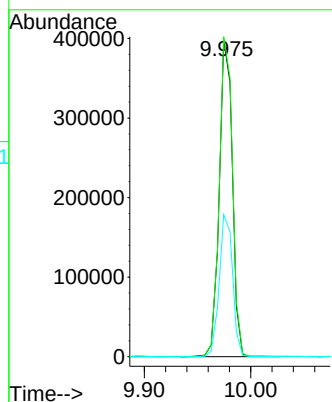
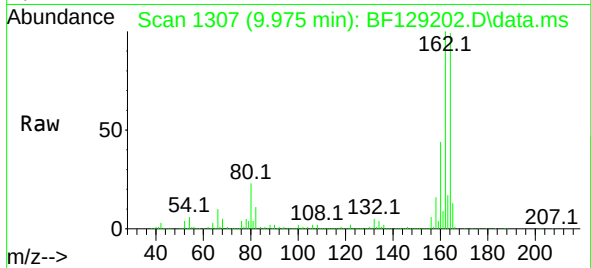
ClientSampleId :

NB-08-070822

Tgt Ion:164 Resp: 34066
Ion Ratio Lower Upper
164 100
162 100.9 79.5 119.3
160 44.8 34.2 51.4

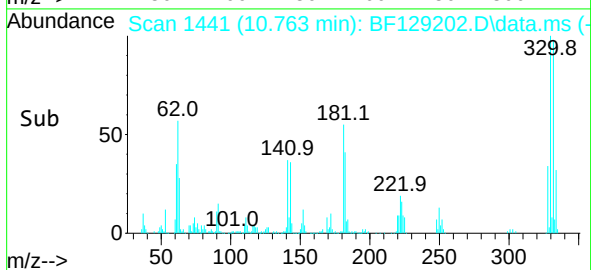
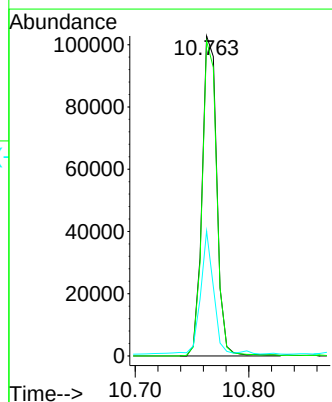
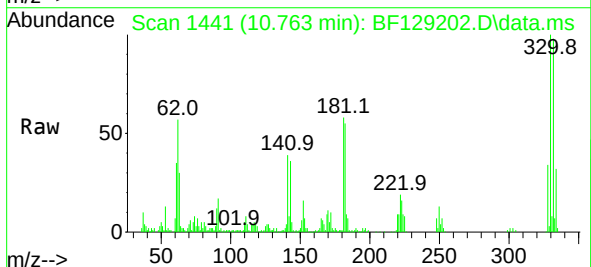
Manual Integrations
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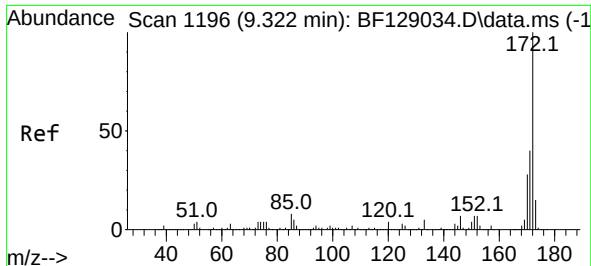
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#42
2,4,6-Tribromophenol
Concen: 24.994 ng
RT: 10.763 min Scan# 1441
Delta R.T. -0.012 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion:330 Resp: 92583
Ion Ratio Lower Upper
330 100
332 97.8 76.8 115.2
141 33.7 28.0 42.0





#45
2-Fluorobiphenyl
Concen: 21.346 ng
RT: 9.292 min Scan# 1196
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

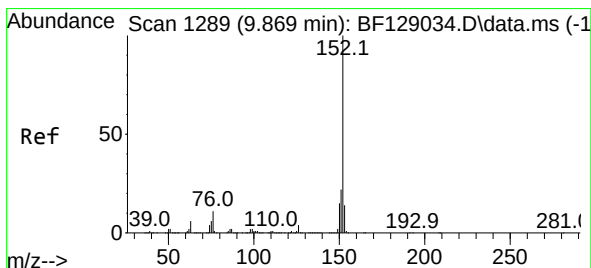
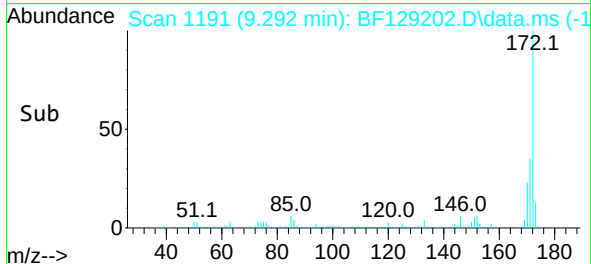
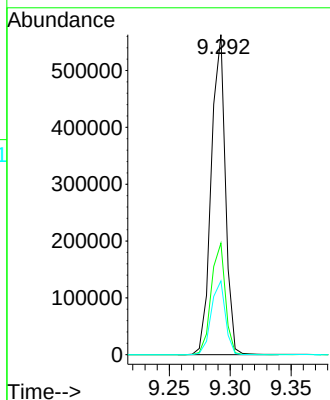
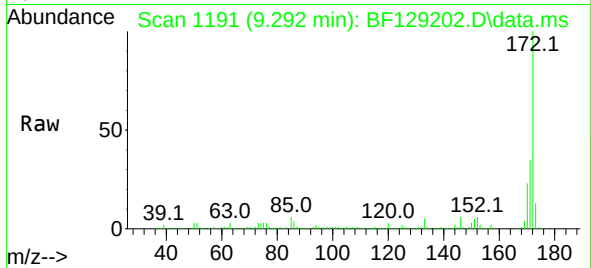
ClientSampleId :

NB-08-070822

Tgt Ion:172 Resp: 454562
Ion Ratio Lower Upper
172 100
171 34.8 28.8 43.2
170 23.0 19.8 29.8

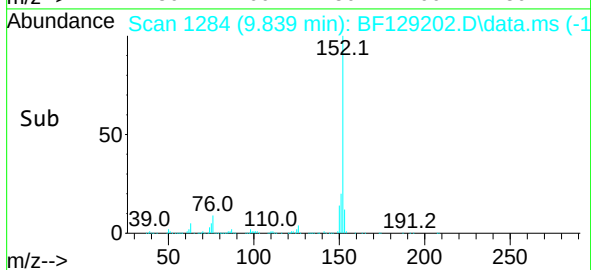
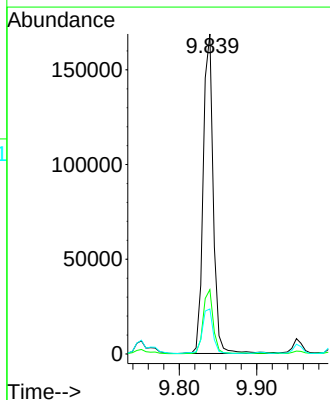
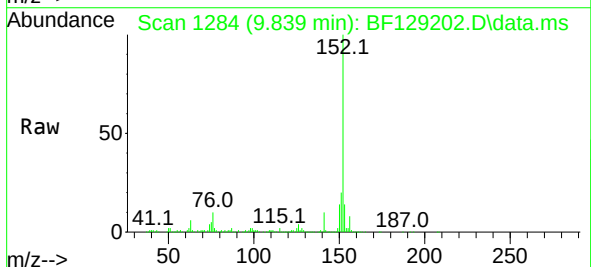
Manual Integrations
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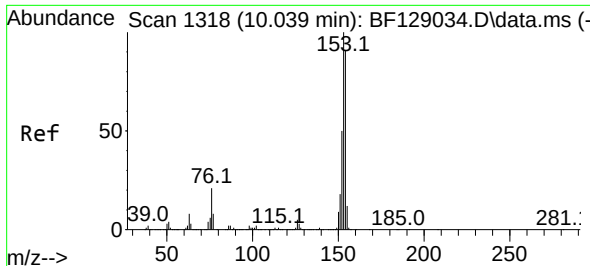
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#49
Acenaphthylene
Concen: 5.306 ng
RT: 9.839 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

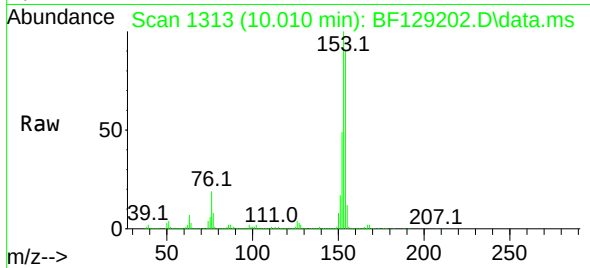
Tgt Ion:152 Resp: 152485
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 14.1 10.7 16.1





#52
Acenaphthene
Concen: 16.683 ng
RT: 10.010 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

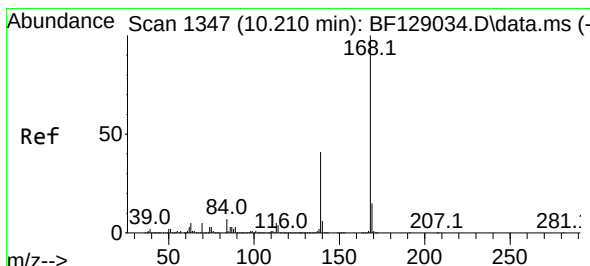
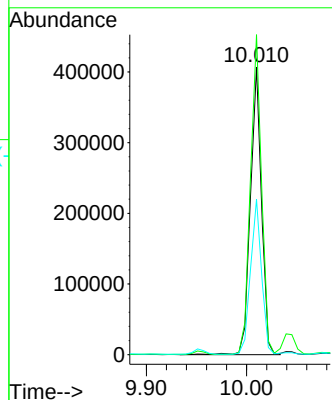
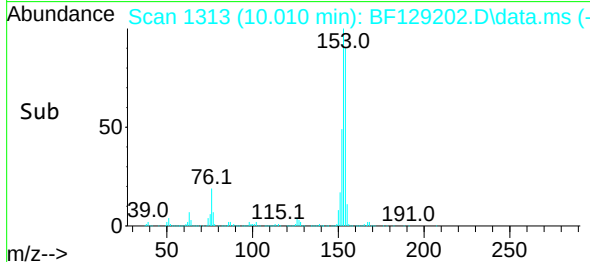
Instrument :
BNA_F
ClientSampleId :
NB-08-070822



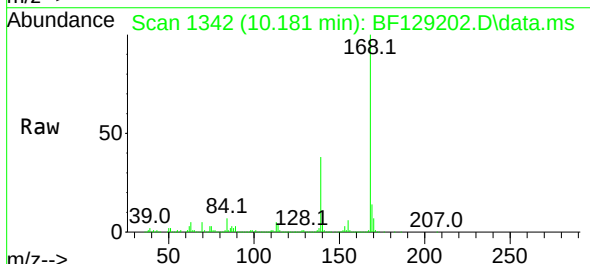
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Ion Ratio Lower Upper
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153 111.2 89.6 134.4
152 54.0 42.4 63.6

Manual Integrations
APPROVED

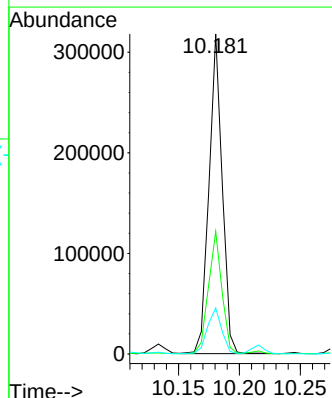
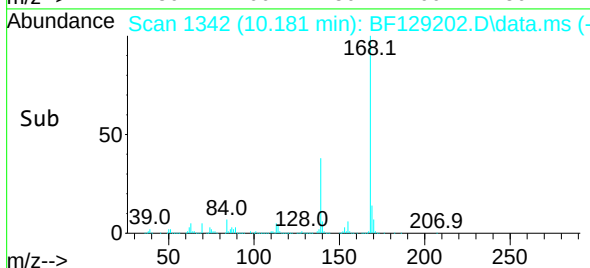
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022

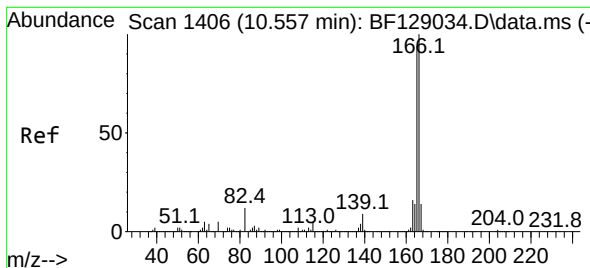


#55
Dibenzofuran
Concen: 8.761 ng
RT: 10.181 min Scan# 1342
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06



Tgt Ion:168 Resp: 238807
Ion Ratio Lower Upper
168 100
139 38.3 30.6 46.0
169 14.3 11.0 16.6





#58

Fluorene

Concen: 18.188 ng m

RT: 10.528 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF129202.D

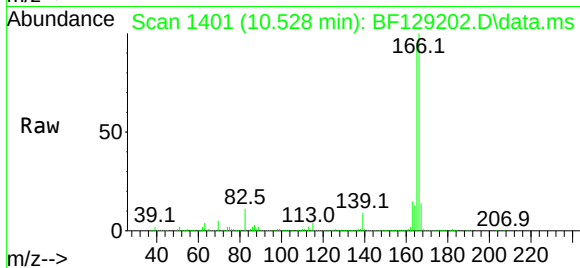
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

ClientSampleId :

NB-08-070822



Tgt Ion:166 Resp: 383490

Ion Ratio Lower Upper

166 100

165 95.2 78.1 117.1

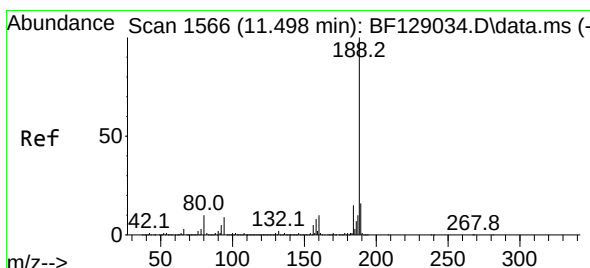
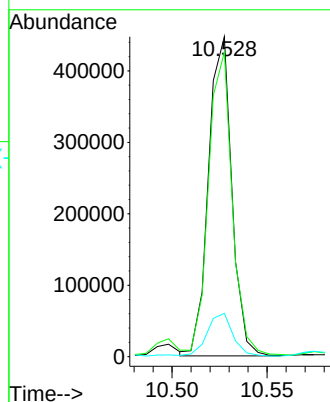
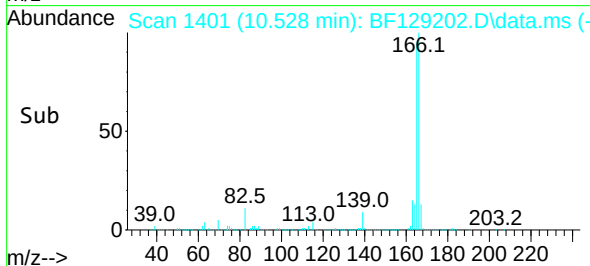
167 13.6 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/13/2022

Supervised By :Jagrut Upadhyay 07/13/2022



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.469 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BF129202.D

Acq: 12 Jul 2022 22:06

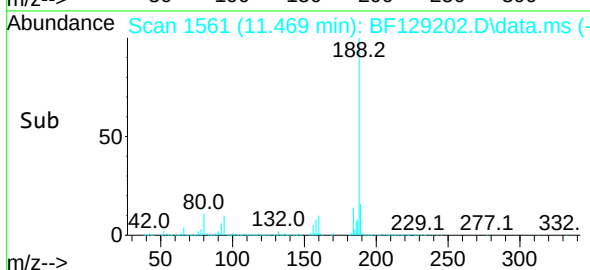
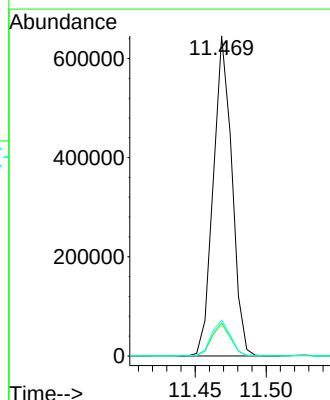
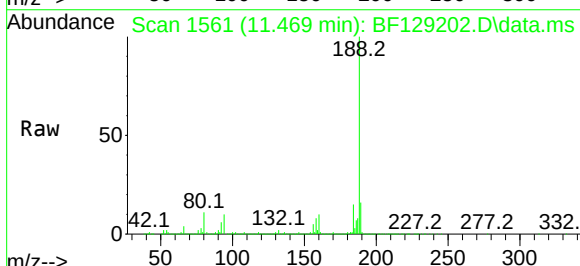
Tgt Ion:188 Resp: 587522

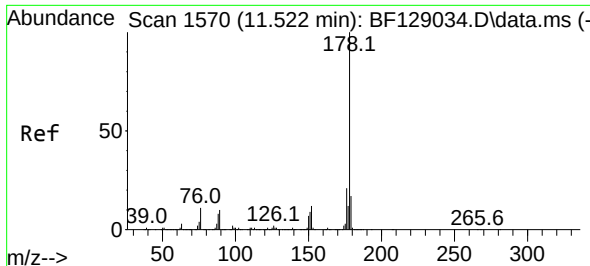
Ion Ratio Lower Upper

188 100

94 10.2 7.0 10.6

80 11.2 7.6 11.4





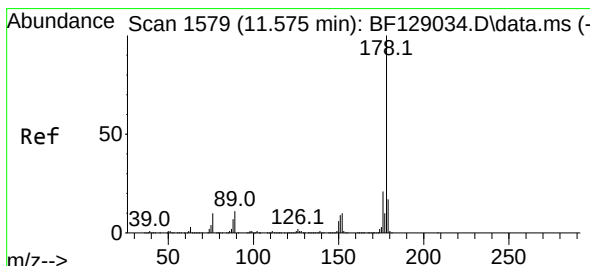
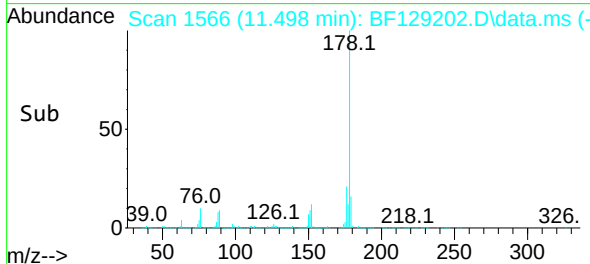
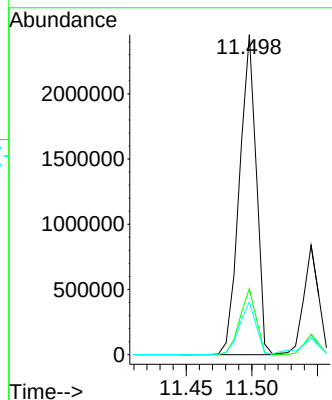
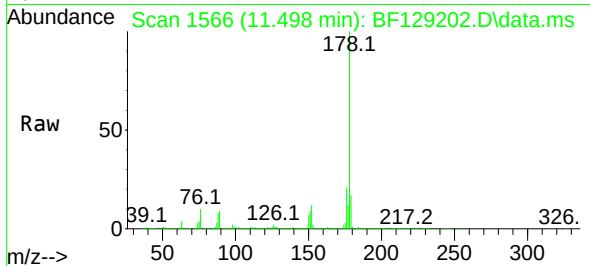
#71
Phenanthrene
Concen: 78.118 ng
RT: 11.498 min Scan# 11566
Delta R.T. 0.000 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :
BNA_F
ClientSampleId :
NB-08-070822

Tgt Ion:178 Resp: 2192908
Ion Ratio Lower Upper
178 100
176 20.6 16.0 24.0
179 16.5 12.6 19.0

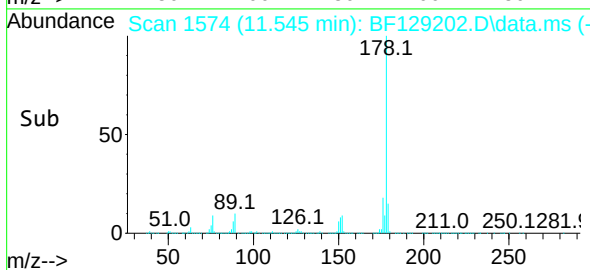
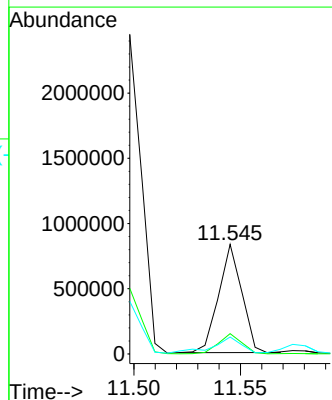
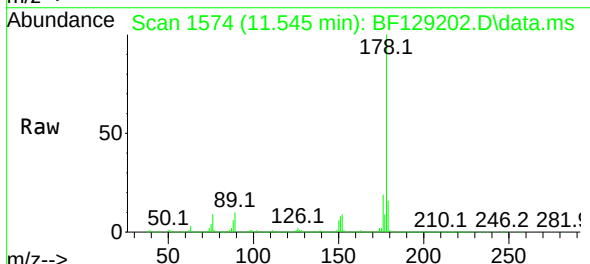
Manual Integrations
APPROVED

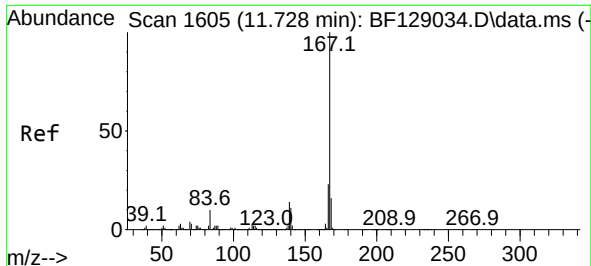
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#72
Anthracene
Concen: 22.698 ng
RT: 11.545 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

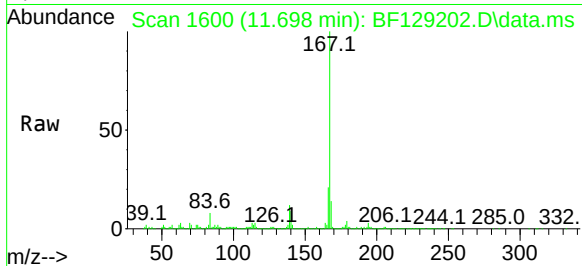
Tgt Ion:178 Resp: 628210
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.5 12.6 19.0





#73
 Carbazole
 Concen: 9.025 ng
 RT: 11.698 min Scan# 1600
 Delta R.T. -0.006 min
 Lab File: BF129202.D
 Acq: 12 Jul 2022 22:06

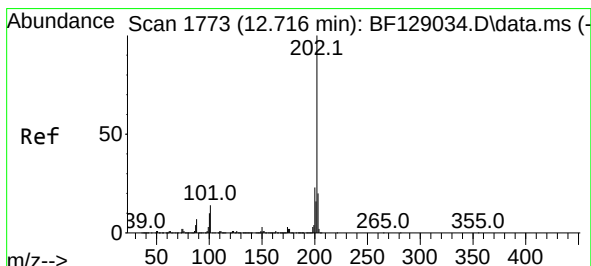
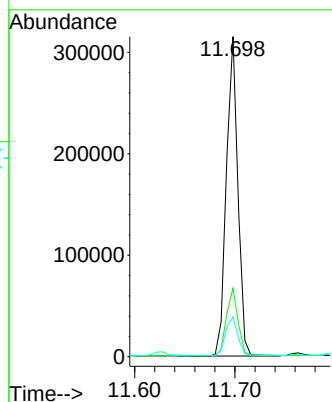
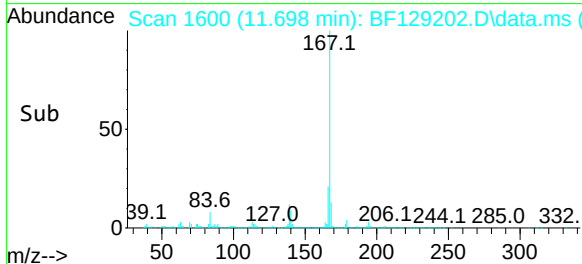
Instrument :
 BNA_F
 ClientSampleId :
 NB-08-070822



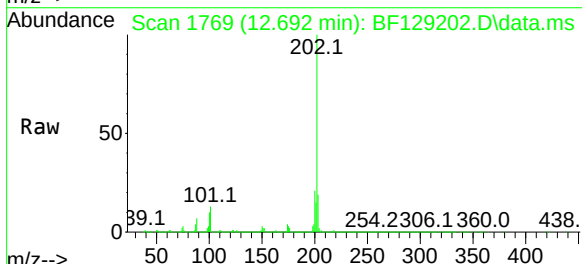
Tgt Ion:167 Resp: 250300
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.7 26.5
 139 12.5 11.2 16.8

Manual Integrations
 APPROVED

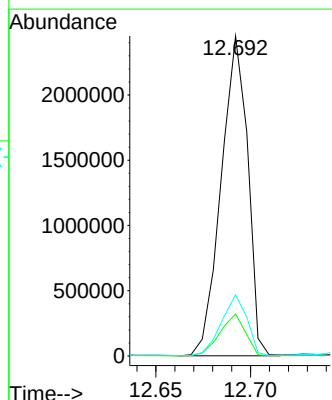
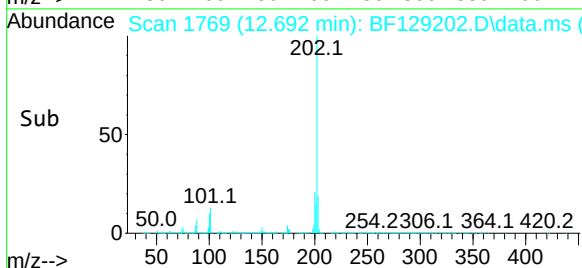
Reviewed By :Christian Giraldo 07/13/2022
 Supervised By :Jagrut Upadhyay 07/13/2022

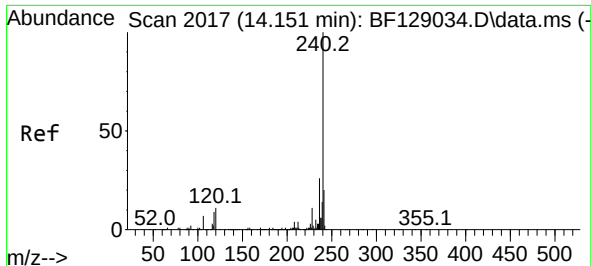


#75
 Fluoranthene
 Concen: 81.290 ng
 RT: 12.692 min Scan# 1769
 Delta R.T. 0.000 min
 Lab File: BF129202.D
 Acq: 12 Jul 2022 22:06



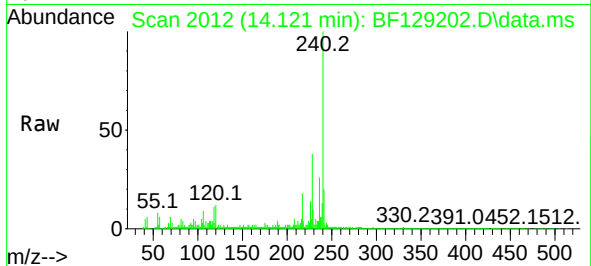
Tgt Ion:202 Resp: 2386481
 Ion Ratio Lower Upper
 202 100
 101 13.2 0.0 31.4
 203 19.1 0.0 38.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.121 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

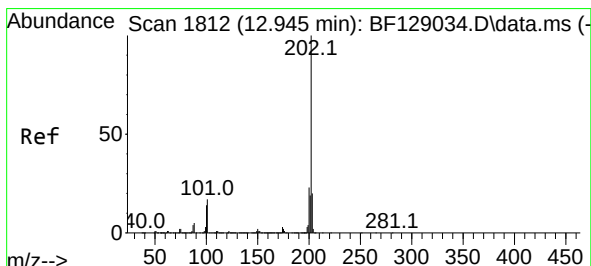
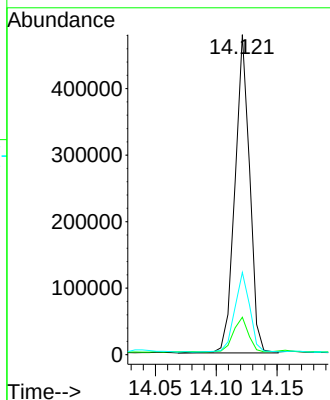
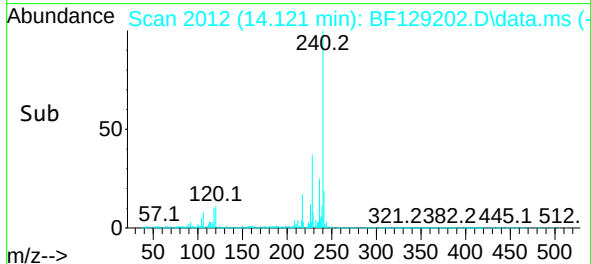
Instrument :
BNA_F
ClientSampleId :
NB-08-070822



Tgt Ion:240 Resp: 400475
Ion Ratio Lower Upper
240 100
120 11.7 8.9 13.3
236 25.7 20.8 31.2

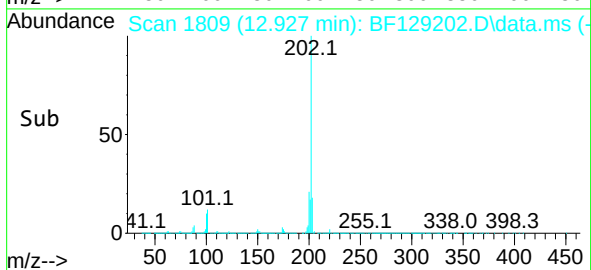
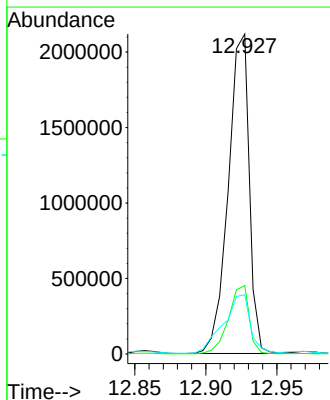
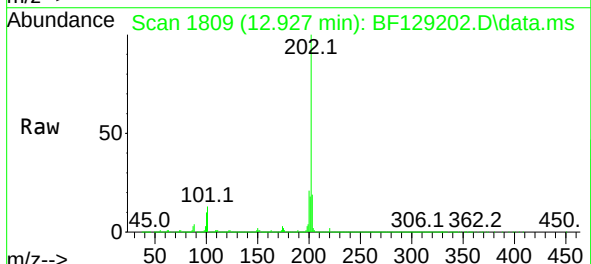
Manual Integrations
APPROVED

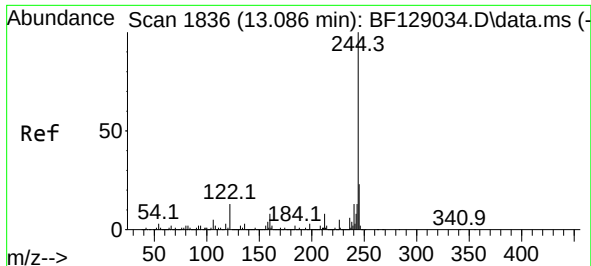
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#78
Pyrene
Concen: 78.650 ng
RT: 12.927 min Scan# 1809
Delta R.T. 0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion:202 Resp: 2183252
Ion Ratio Lower Upper
202 100
200 21.3 17.7 26.5
203 18.5 14.6 21.8





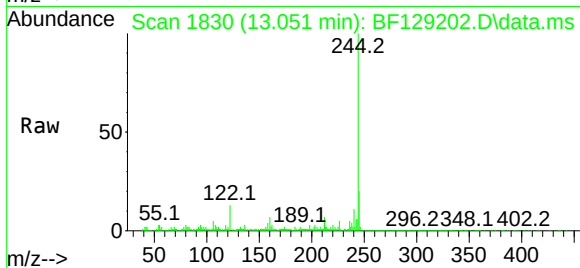
#79
 Terphenyl-d14
 Concen: 23.177 ng
 RT: 13.051 min Scan# 1836
 Delta R.T. -0.012 min
 Lab File: BF129202.D
 Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

ClientSampleId :

NB-08-070822

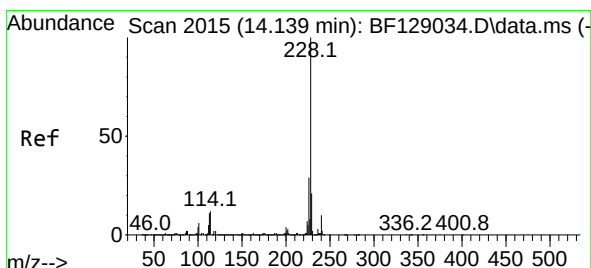
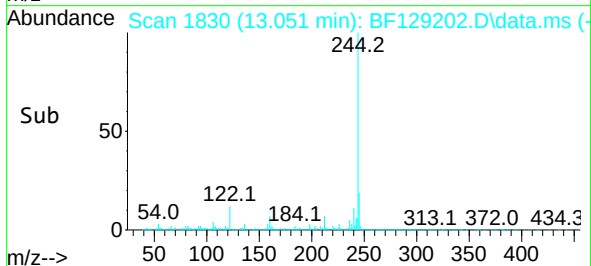
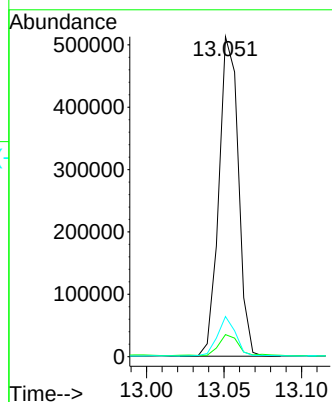


Tgt Ion:244 Resp: 44696
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.1 9.1
 122 12.6 8.8 13.2

Manual Integrations

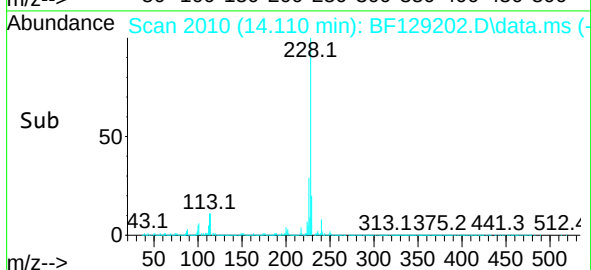
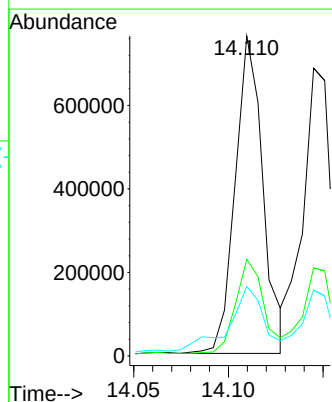
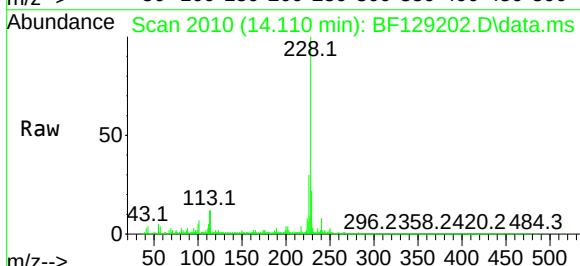
APPROVED

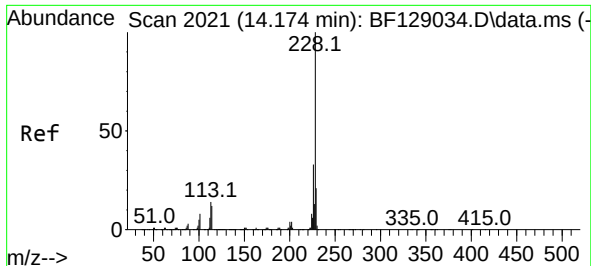
Reviewed By :Christian Giraldo 07/13/2022
 Supervised By :Jagrut Upadhyay 07/13/2022



#81
 Benzo(a)anthracene
 Concen: 31.700 ng
 RT: 14.110 min Scan# 2010
 Delta R.T. 0.000 min
 Lab File: BF129202.D
 Acq: 12 Jul 2022 22:06

Tgt Ion:228 Resp: 775129
 Ion Ratio Lower Upper
 228 100
 226 30.2 22.1 33.1
 229 21.7 15.8 23.8





#83
Chrysene
Concen: 30.445 ng
RT: 14.145 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

ClientSampleId :

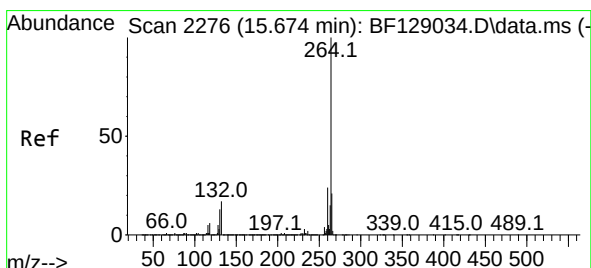
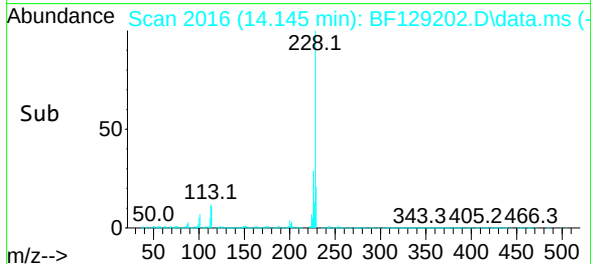
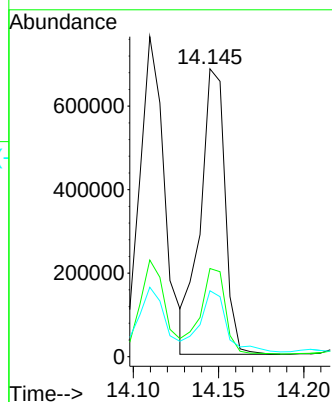
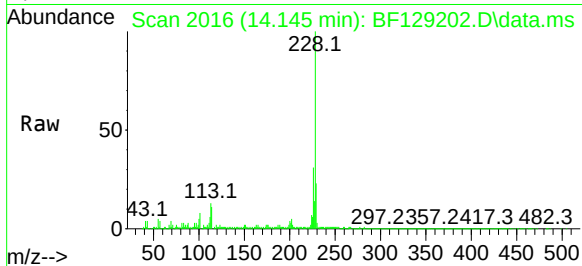
NB-08-070822

Tgt Ion:228 Resp: 691120
Ion Ratio Lower Upper
228 100
226 30.6 24.3 36.5
229 22.9 15.9 23.9

Manual Integrations

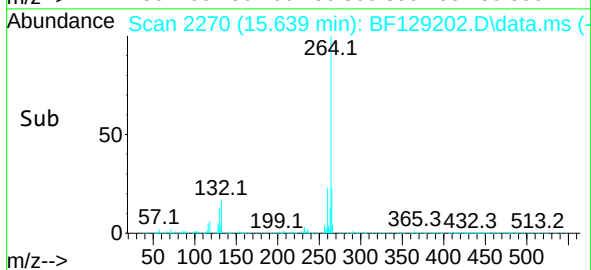
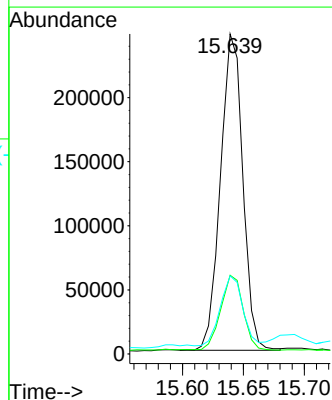
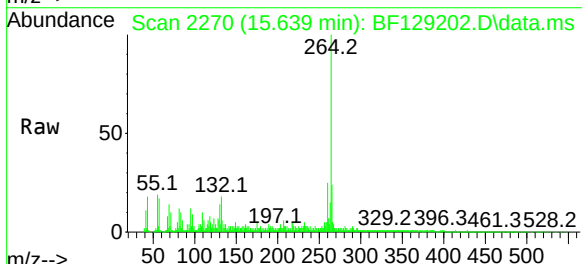
APPROVED

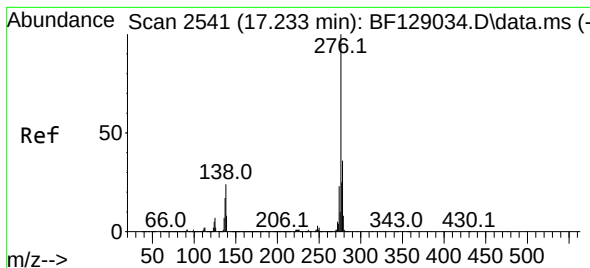
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion:264 Resp: 315370
Ion Ratio Lower Upper
264 100
260 24.6 18.4 27.6
265 24.4 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.369 ng m

RT: 17.186 min Scan# 21990

Delta R.T. 0.006 min

Lab File: BF129202.D

Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

ClientSampleId :

NB-08-070822

Tgt Ion:276 Resp: 21990

Ion Ratio Lower Upper

276 100

138 4.8 21.1 31.7

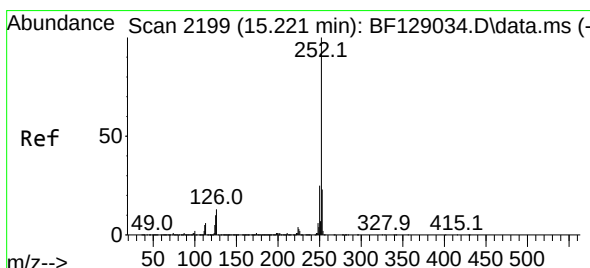
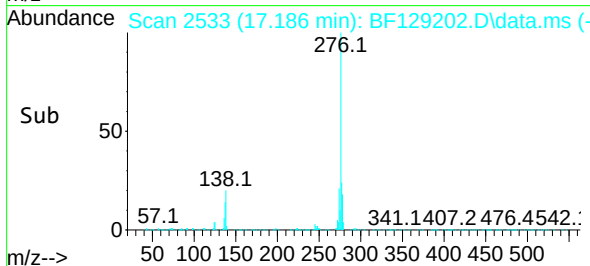
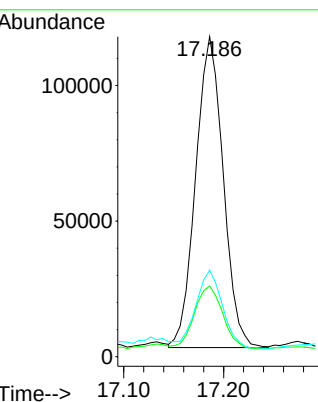
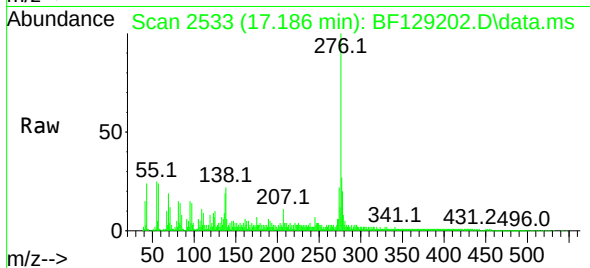
277 5.3 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/13/2022

Supervised By :Jagrut Upadhyay 07/13/2022



#88

Benzo(b)fluoranthene

Concen: 31.443 ng m

RT: 15.192 min Scan# 2194

Delta R.T. 0.006 min

Lab File: BF129202.D

Acq: 12 Jul 2022 22:06

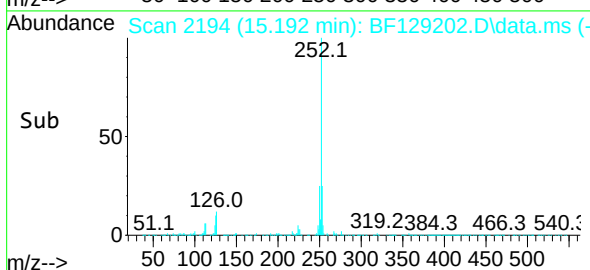
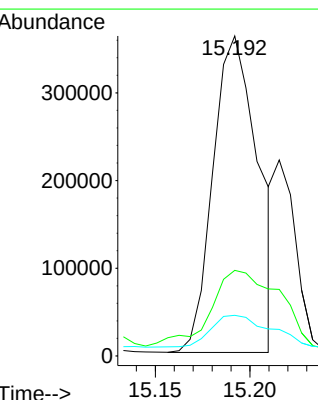
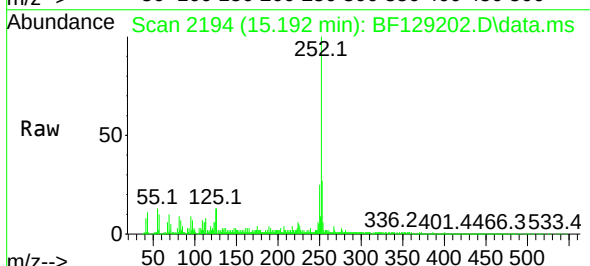
Tgt Ion:252 Resp: 596353

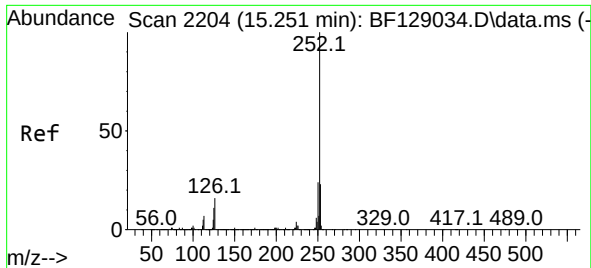
Ion Ratio Lower Upper

252 100

253 26.8 17.7 26.5

125 12.7 8.0 12.0





#89
Benzo(k)fluoranthene
Concen: 9.436 ng m
RT: 15.215 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :

BNA_F

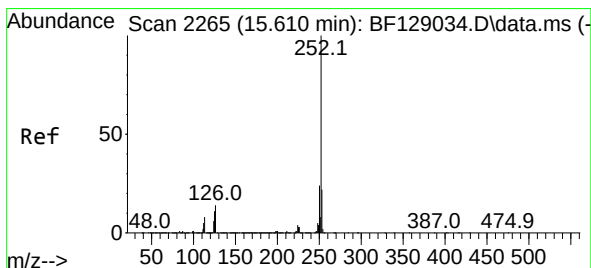
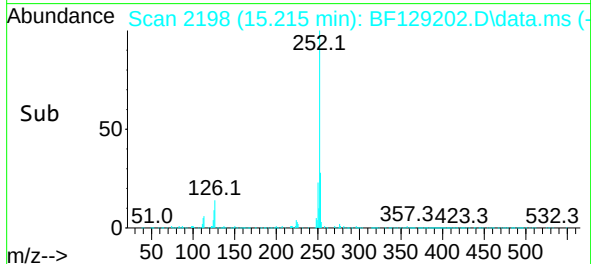
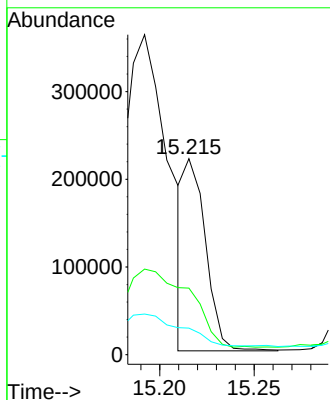
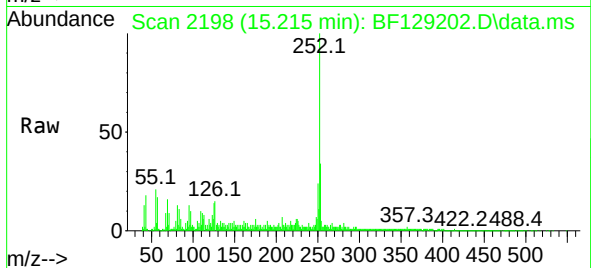
ClientSampleId :

NB-08-070822

Tgt Ion:252 Resp: 173578
Ion Ratio Lower Upper
252 100
253 33.9 17.8 26.6
125 13.6 8.3 12.5

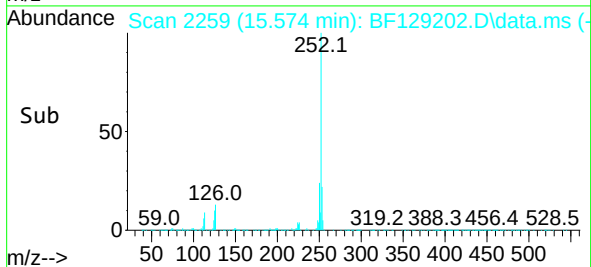
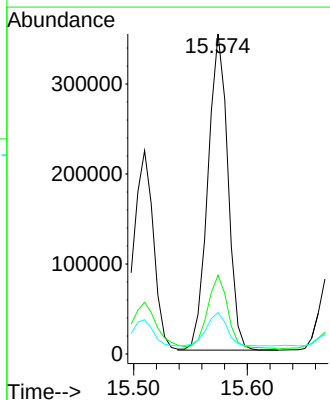
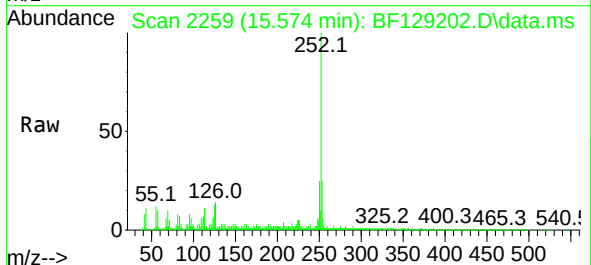
Manual Integrations
APPROVED

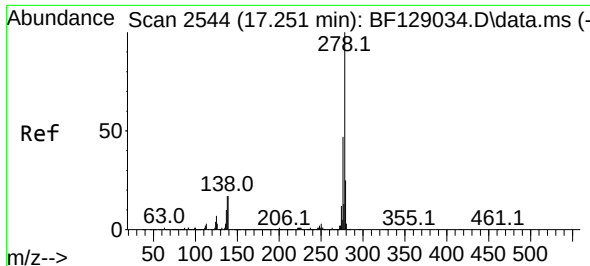
Reviewed By :Christian Giraldo 07/13/2022
Supervised By :Jagrut Upadhyay 07/13/2022



#90
Benzo(a)pyrene
Concen: 27.715 ng
RT: 15.574 min Scan# 2259
Delta R.T. 0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion:252 Resp: 428508
Ion Ratio Lower Upper
252 100
253 24.6 17.0 25.6
125 12.9 8.8 13.2





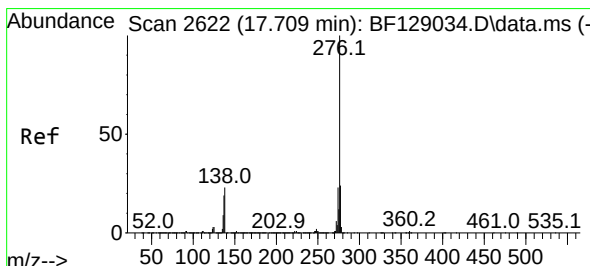
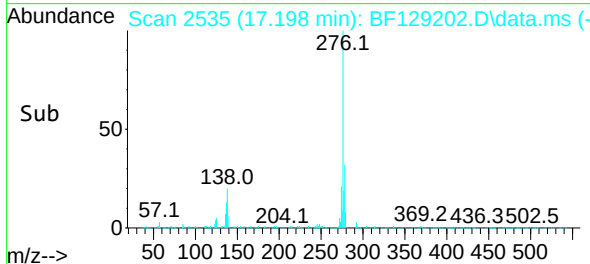
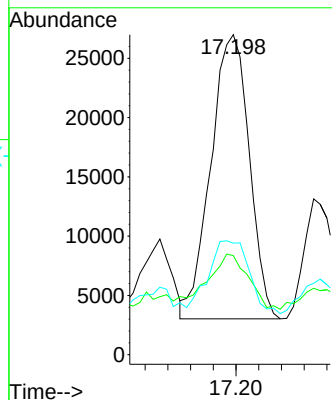
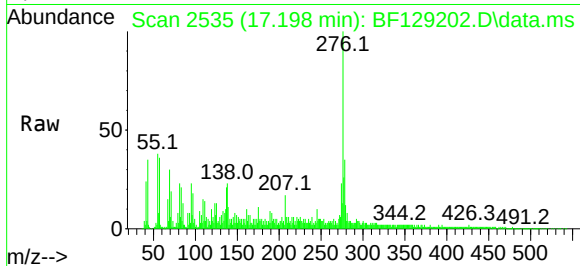
#91
Dibenzo(a,h)anthracene
Concen: 3.575 ng
RT: 17.198 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Instrument :
BNA_F
ClientSampleId :
NB-08-070822

Tgt Ion: 278 Resp: 56369
Ion Ratio Lower Upper
278 100
139 31.0 12.8 19.2
279 34.9 18.6 28.0

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 07/13/2022
Supervised By : Jagrut Upadhyay 07/13/2022



#92
Benzo(g,h,i)perylene
Concen: 13.389 ng
RT: 17.662 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BF129202.D
Acq: 12 Jul 2022 22:06

Tgt Ion: 276 Resp: 211811
Ion Ratio Lower Upper
276 100
277 26.3 19.1 28.7
138 21.8 18.0 27.0

