

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072222\
 Data File : BF129326.D
 Acq On : 22 Jul 2022 20:54
 Operator : CG\JU
 Sample : N3814-05 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ENV-DE-3(5-10)

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 07/25/2022
 Supervised By : Jagrut Upadhyay 07/25/2022

Quant Time: Jul 23 01:24:14 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 20 13:42:18 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	137745	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	496467	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	218069	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	513898	20.000	ng	0.00
76) Chrysene-d12	14.074	240	391745	20.000	ng	0.00
86) Perylene-d12	15.568	264	345687	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	63251	7.490	ng	-0.01
7) Phenol-d6	6.510	99	79627	7.396	ng	-0.02
23) Nitrobenzene-d5	7.451	82	48034	5.205	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	20786	9.880	ng	-0.01
45) 2-Fluorobiphenyl	9.245	172	75236	5.307	ng	-0.01
79) Terphenyl-d14	13.004	244	102120	4.855	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.198	128	135257	5.312	ng	99
37) 2-Methylnaphthalene	8.887	142	42101	2.552	ng	100
38) 1-Methylnaphthalene	8.986	142	40382	2.530	ng	99
49) Acenaphthylene	9.792	152	41895	2.114	ng	98
52) Acenaphthene	9.963	154	181014	14.072	ng	98
55) Dibenzofuran	10.139	168	123321	6.899	ng	99
58) Fluorene	10.481	166	184356	12.922	ng	97
71) Phenanthrene	11.451	178	1928627	68.376	ng	99
72) Anthracene	11.498	178	622858	22.286	ng	100
73) Carbazole	11.651	167	265236	10.174	ng	99
75) Fluoranthene	12.651	202	2775872	96.564	ng	99
78) Pyrene	12.880	202	2855230	85.217	ng	99
81) Benzo(a)anthracene	14.063	228	1633928	60.571	ng	98
83) Chrysene	14.104	228	1356545	53.279	ng	97
87) Indeno(1,2,3-cd)pyrene	17.080	276	601324	25.374	ng	# 93
88) Benzo(b)fluoranthene	15.133	252	1617653m	70.307	ng	
89) Benzo(k)fluoranthene	15.157	252	409367m	18.324	ng	
90) Benzo(a)pyrene	15.510	252	1128292	60.607	ng	96
91) Dibenzo(a,h)anthracene	17.086	278	152457m	7.982	ng	
92) Benzo(g,h,i)perylene	17.545	276	372108	18.748	ng	97

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

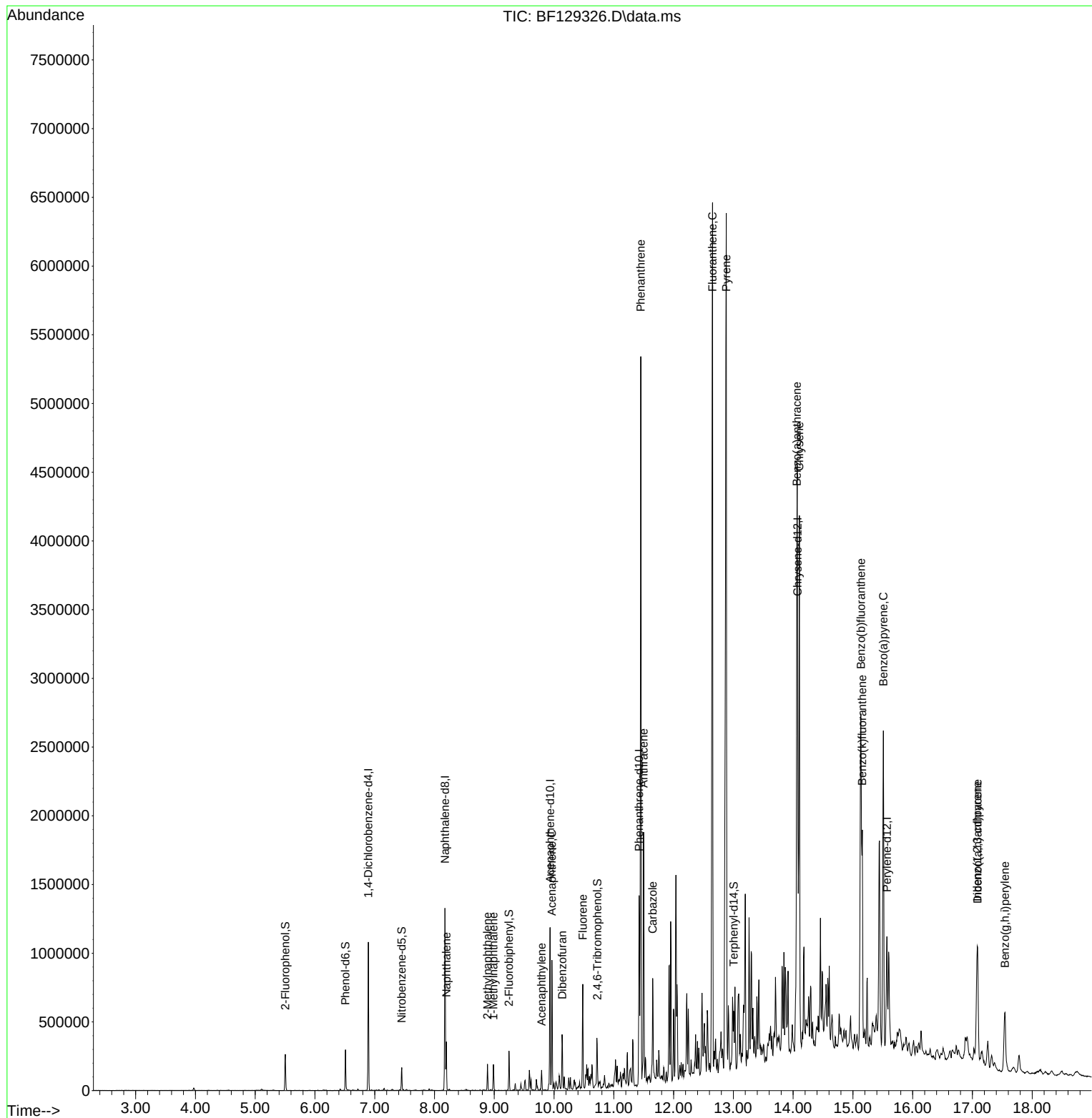
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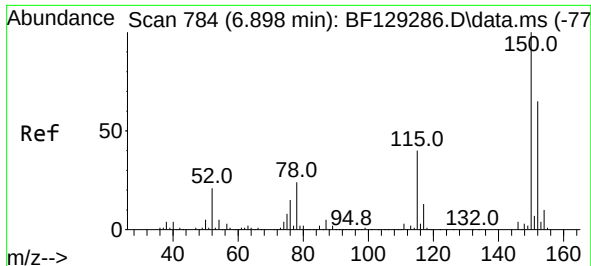
Instrument :
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ENV-DE-3(5-10)

Quant Time: Jul 23 01:24:14 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072022.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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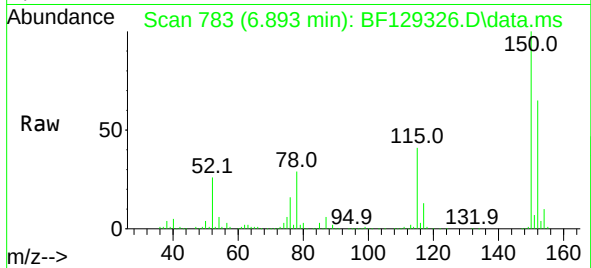
Reviewed By : Christian Giraldo 07/25/2022
Supervised By : Jagrut Upadhyay 07/25/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 71
Delta R.T. -0.005 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

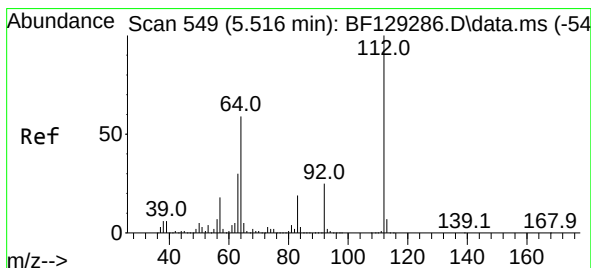
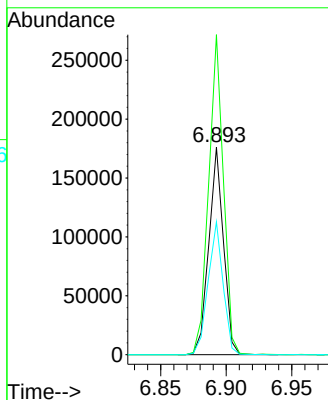
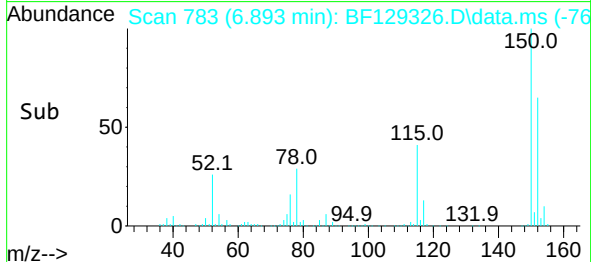
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



Tgt Ion:152 Resp: 137749
Ion Ratio Lower Upper
152 100
150 154.2 123.7 185.5
115 63.9 49.9 74.9

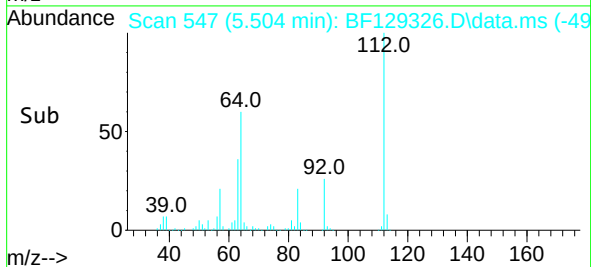
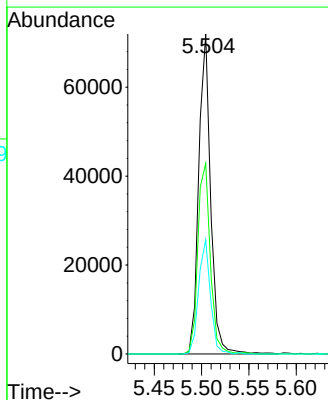
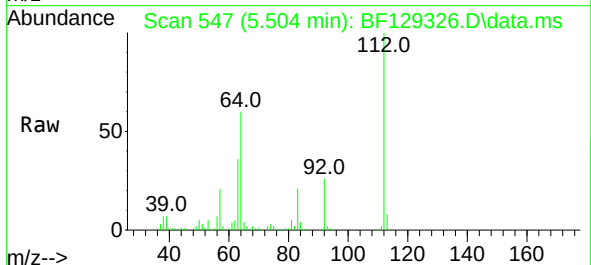
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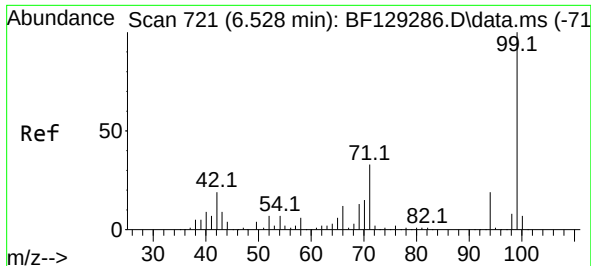
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#5
2-Fluorophenol
Concen: 7.490 ng
RT: 5.504 min Scan# 547
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

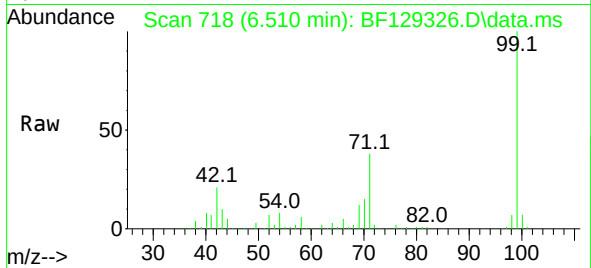
Tgt Ion:112 Resp: 63251
Ion Ratio Lower Upper
112 100
64 59.5 53.3 79.9
63 35.7 28.0 42.0





#7
Phenol-d6
Concen: 7.396 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

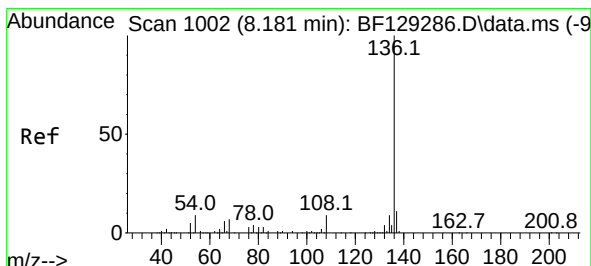
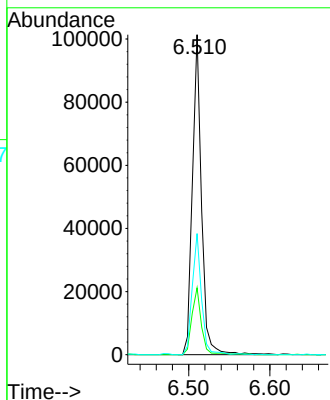
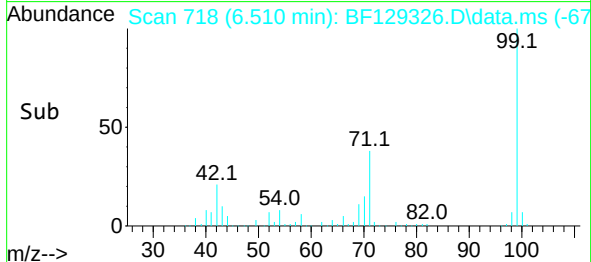
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



Tgt Ion: 99 Resp: 7962
Ion Ratio Lower Upper
99 100
42 20.9 17.3 25.9
71 37.9 28.9 43.3

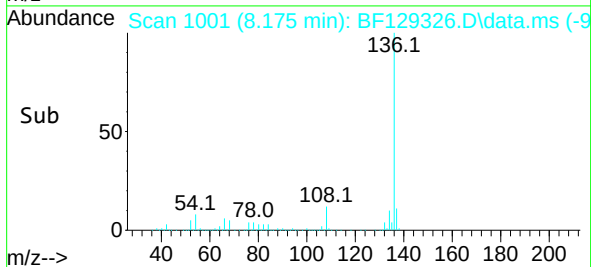
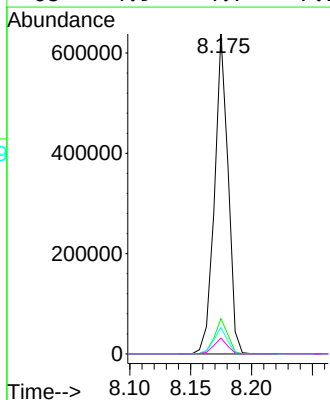
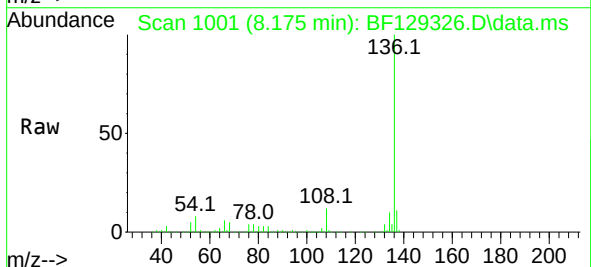
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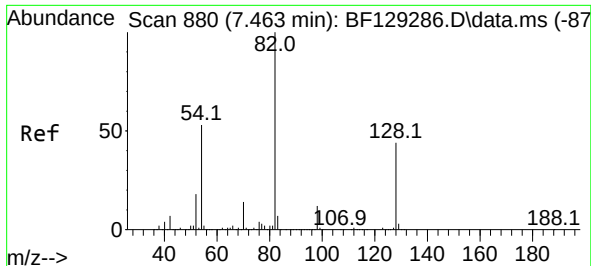
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1001
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

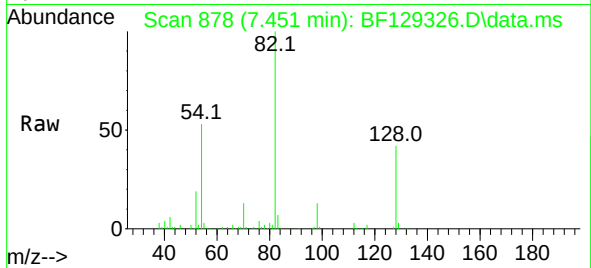
Tgt Ion:136 Resp: 496467
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.2 7.5 11.3
68 4.9 4.7 7.1





#23
Nitrobenzene-d5
Concen: 5.205 ng
RT: 7.451 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

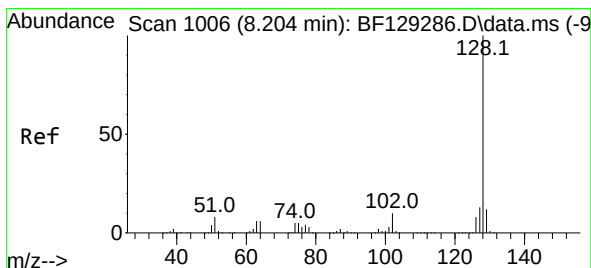
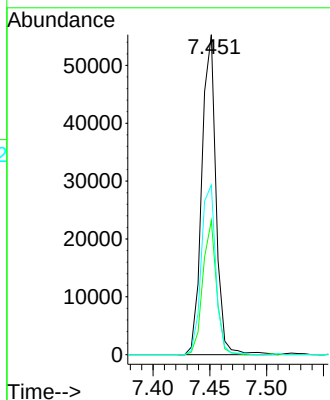
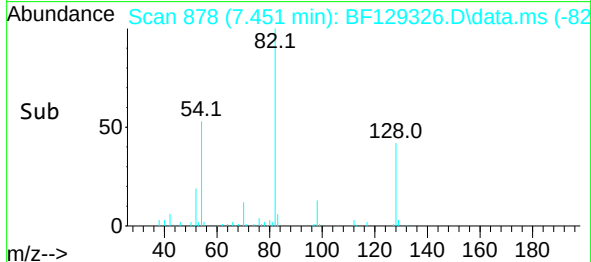
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



Tgt Ion: 82 Resp: 48034
Ion Ratio Lower Upper
82 100
128 41.9 34.0 51.0
54 53.0 46.9 70.3

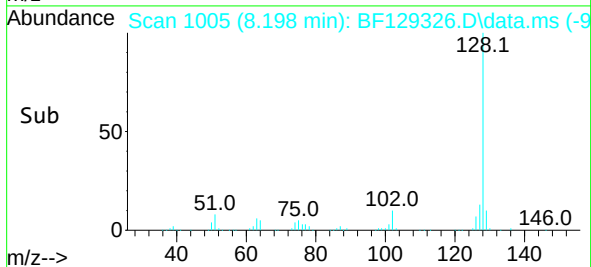
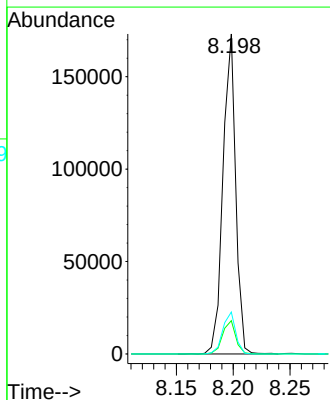
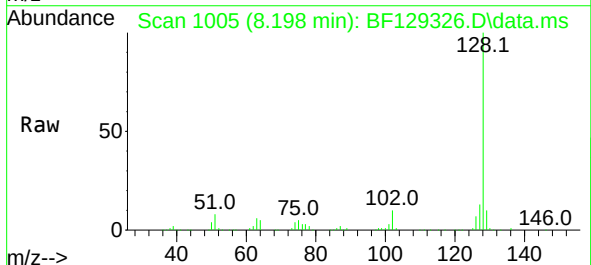
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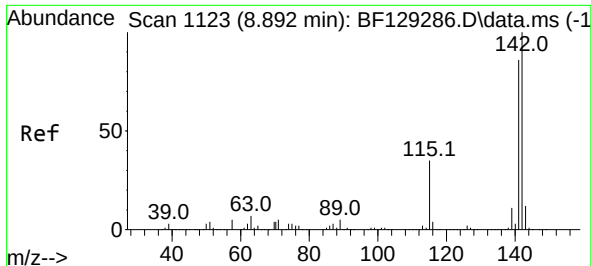
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#31
Naphthalene
Concen: 5.312 ng
RT: 8.198 min Scan# 1005
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

Tgt Ion:128 Resp: 135257
Ion Ratio Lower Upper
128 100
129 10.4 9.2 13.8
127 13.1 10.5 15.7





#37

2-Methylnaphthalene

Concen: 2.552 ng

RT: 8.887 min Scan# 1122

Delta R.T. -0.006 min

Lab File: BF129326.D

Acq: 22 Jul 2022 20:54

Instrument :

BNA_F

ClientSampleId :

ENV-DE-3(5-10)

Tgt Ion:142 Resp: 4210

Ion Ratio Lower Upper

142 100

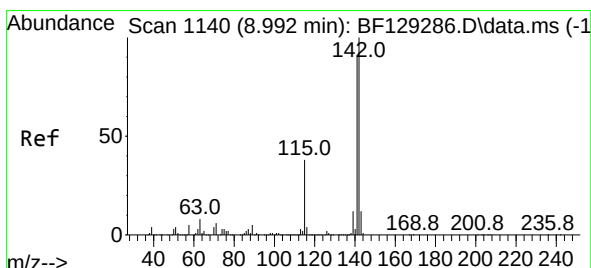
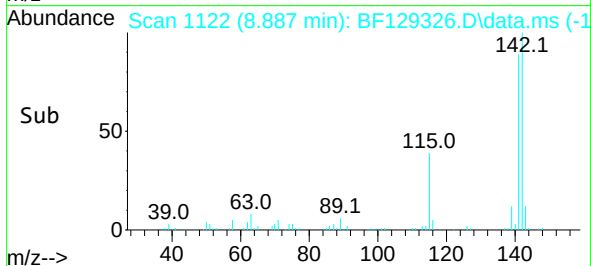
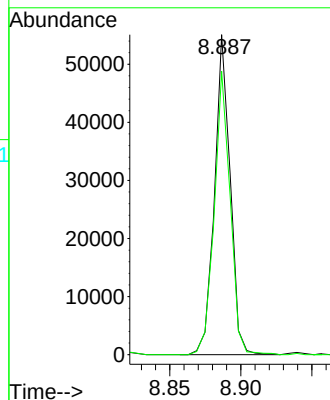
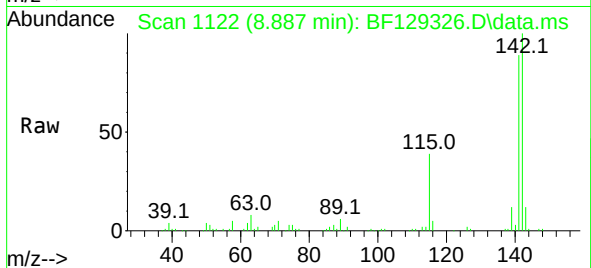
141 88.6 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 07/25/2022

Supervised By :Jagrut Upadhyay 07/25/2022



#38

1-Methylnaphthalene

Concen: 2.530 ng

RT: 8.986 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF129326.D

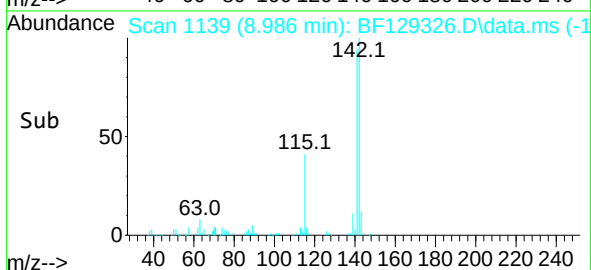
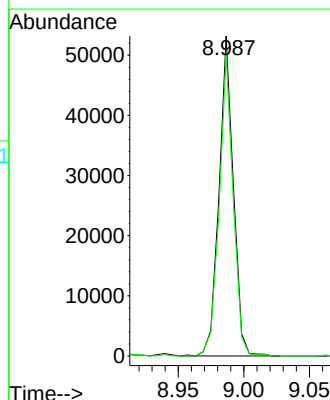
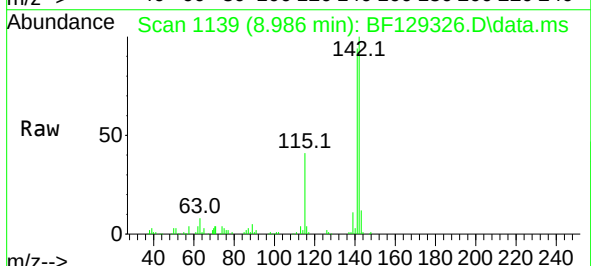
Acq: 22 Jul 2022 20:54

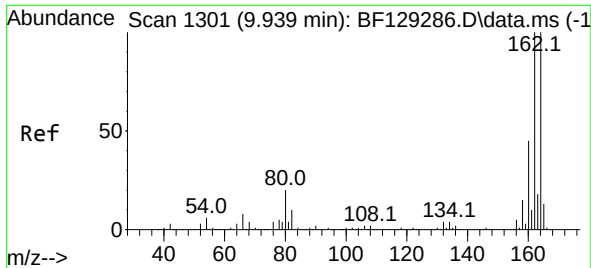
Tgt Ion:142 Resp: 40382

Ion Ratio Lower Upper

142 100

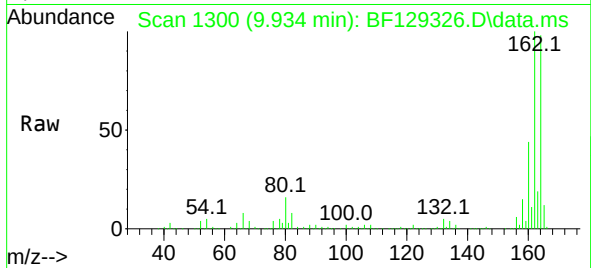
141 93.8 74.2 111.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

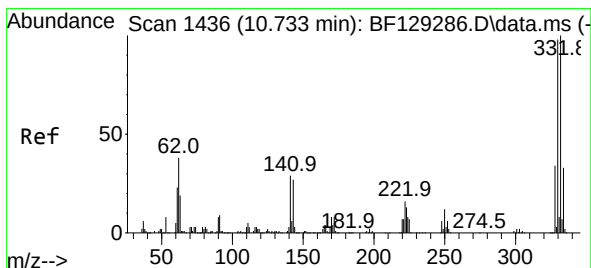
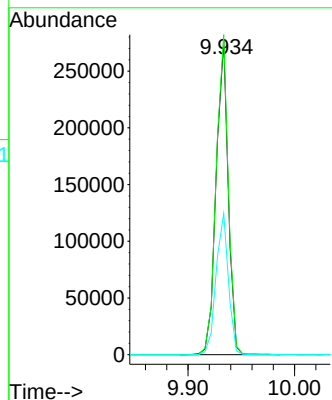
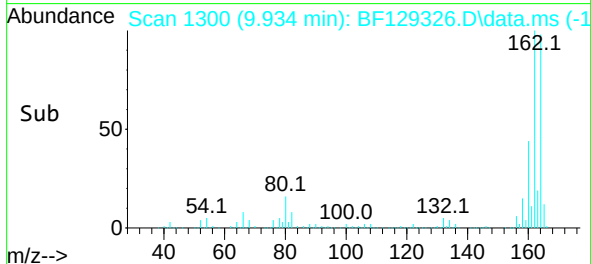
Instrument :
BNA_F
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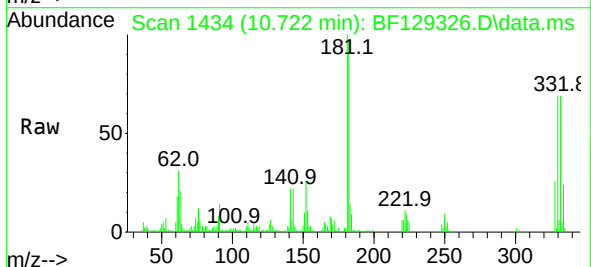
Tgt Ion:164 Resp: 218069
Ion Ratio Lower Upper
164 100
162 101.9 79.5 119.3
160 45.0 34.2 51.4

Manual Integrations
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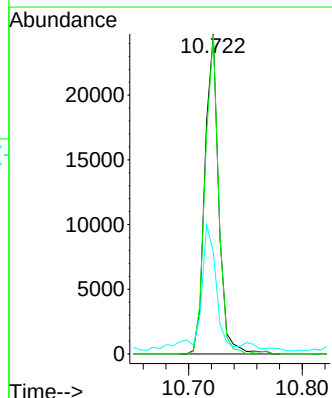
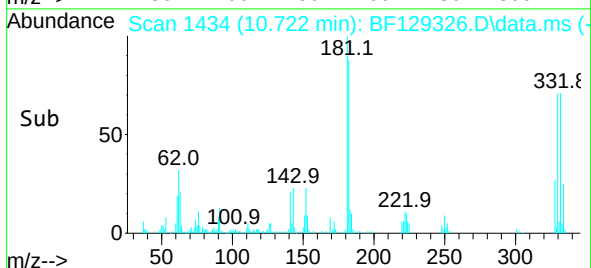
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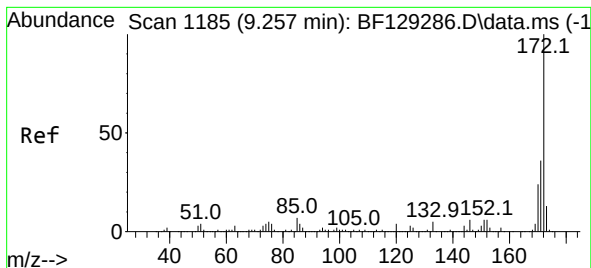


#42
2,4,6-Tribromophenol
Concen: 9.880 ng
RT: 10.722 min Scan# 1434
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



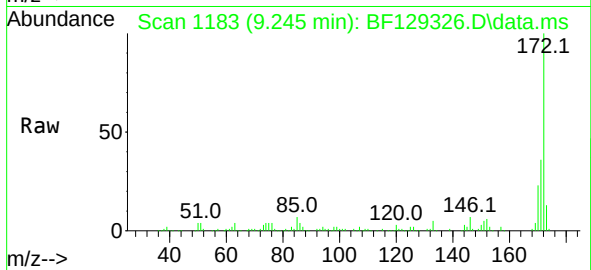
Tgt Ion:330 Resp: 20786
Ion Ratio Lower Upper
330 100
332 96.3 76.8 115.2
141 44.5 28.0 42.0#





#45
2-Fluorobiphenyl
Concen: 5.307 ng
RT: 9.245 min Scan# 1183
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

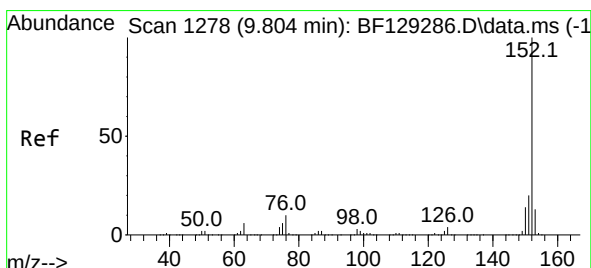
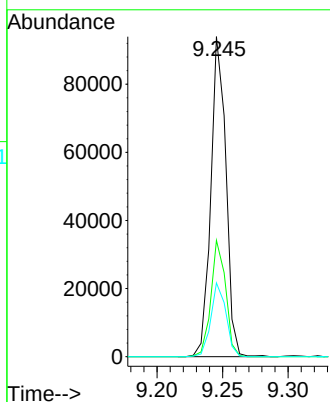
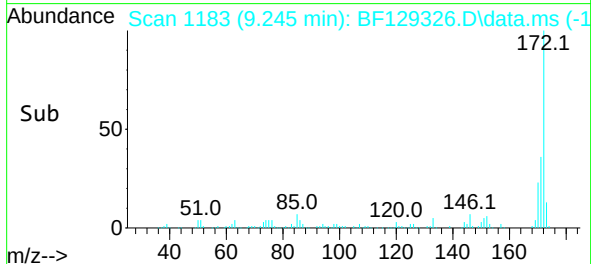
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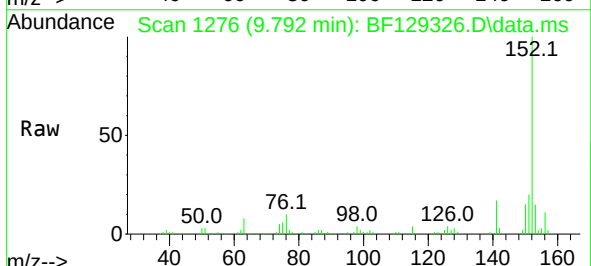
Tgt Ion:172 Resp: 75236
Ion Ratio Lower Upper
172 100
171 36.4 28.8 43.2
170 23.1 19.8 29.8

Manual Integrations
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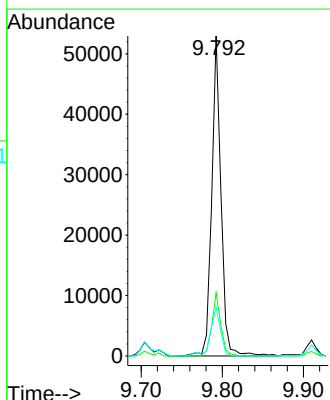
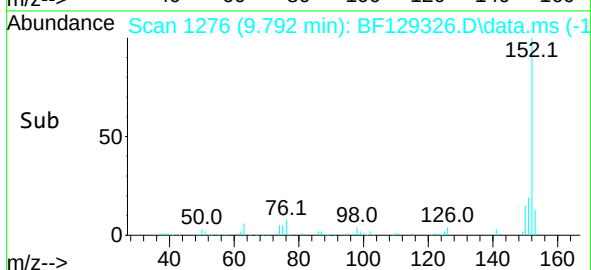
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022

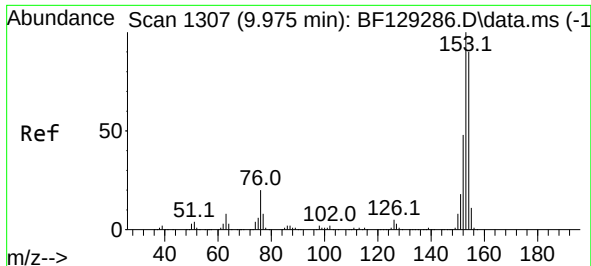


#49
Acenaphthylene
Concen: 2.114 ng
RT: 9.792 min Scan# 1276
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



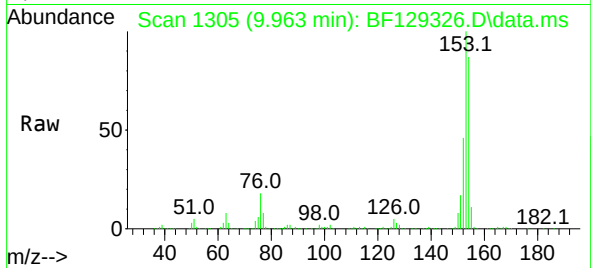
Tgt Ion:152 Resp: 41895
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 15.1 10.7 16.1





#52
Acenaphthene
Concen: 14.072 ng
RT: 9.963 min Scan# 1305
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

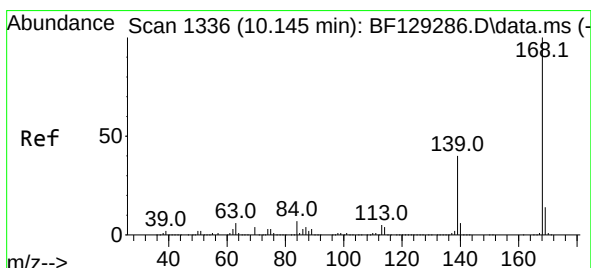
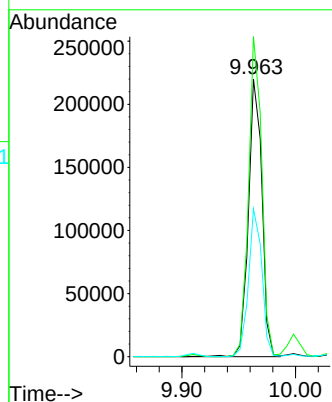
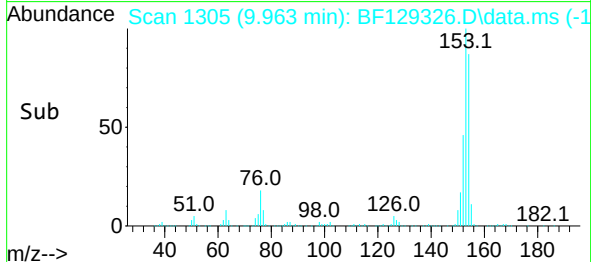
Instrument :
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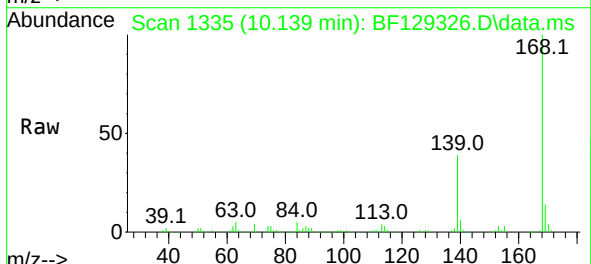
Tgt Ion:154 Resp: 181014
Ion Ratio Lower Upper
154 100
153 115.3 89.6 134.4
152 53.2 42.4 63.6

Manual Integrations
APPROVED

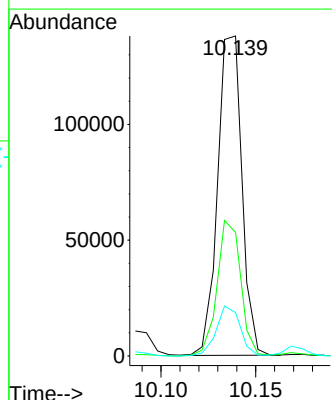
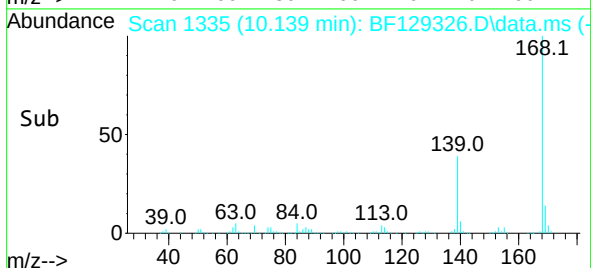
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022

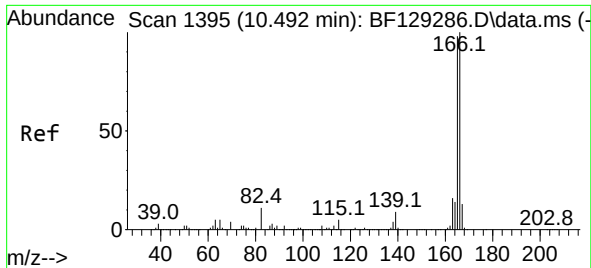


#55
Dibenzofuran
Concen: 6.899 ng
RT: 10.139 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



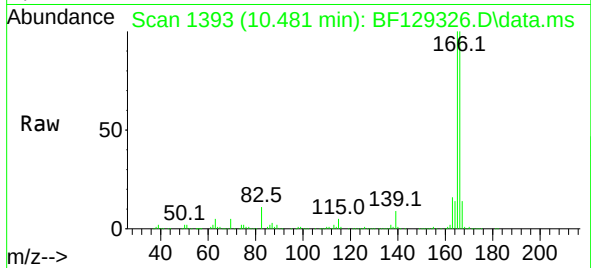
Tgt Ion:168 Resp: 123321
Ion Ratio Lower Upper
168 100
139 38.6 30.6 46.0
169 13.6 11.0 16.6





#58
Fluorene
Concen: 12.922 ng
RT: 10.481 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

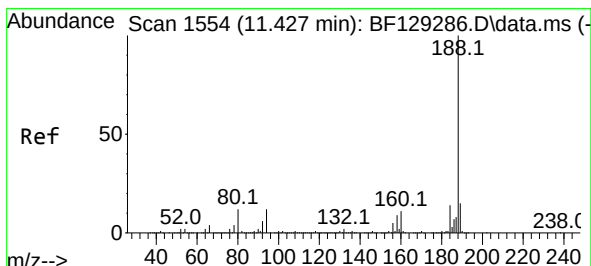
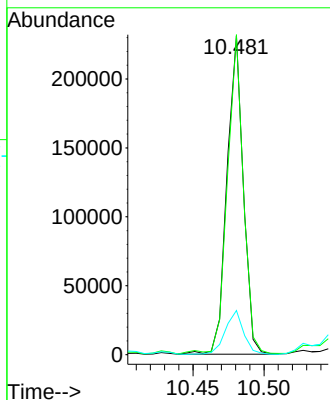
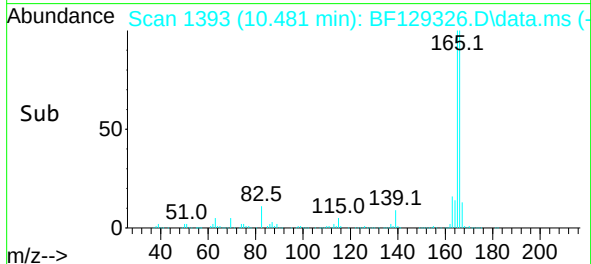
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



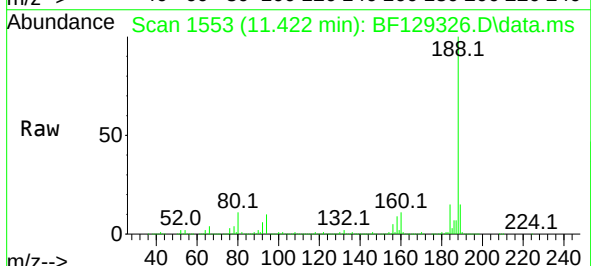
Tgt Ion:166 Resp: 184350
Ion Ratio Lower Upper
166 100
165 100.4 78.1 117.1
167 13.9 10.5 15.7

Manual Integrations
APPROVED

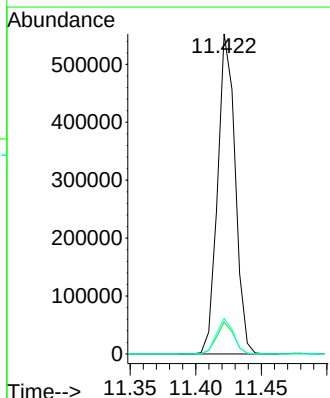
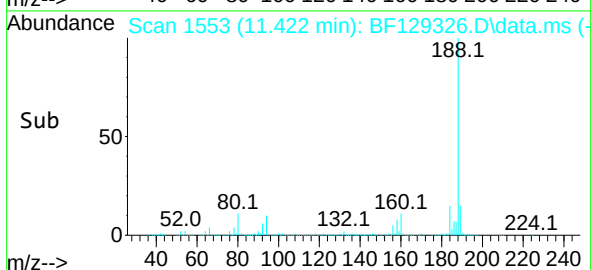
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022

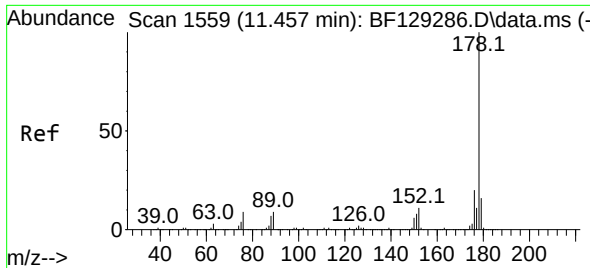


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1553
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



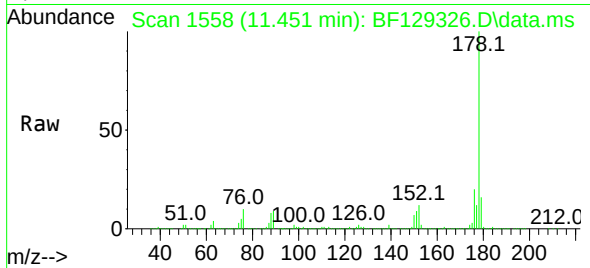
Tgt Ion:188 Resp: 513898
Ion Ratio Lower Upper
188 100
94 10.0 7.0 10.6
80 11.1 7.6 11.4





#71
Phenanthrene
Concen: 68.376 ng
RT: 11.451 min Scan# 1558
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

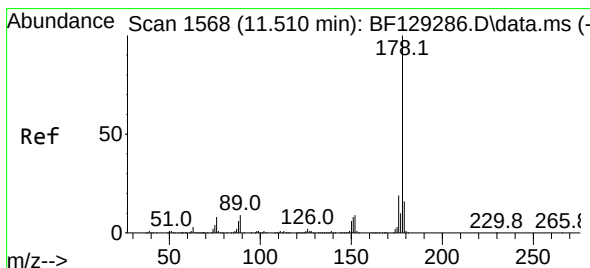
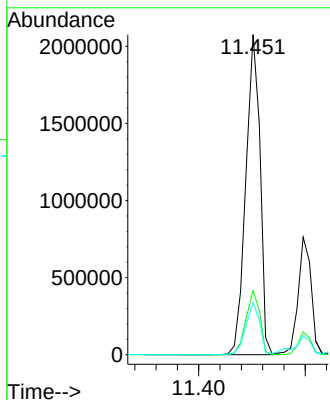
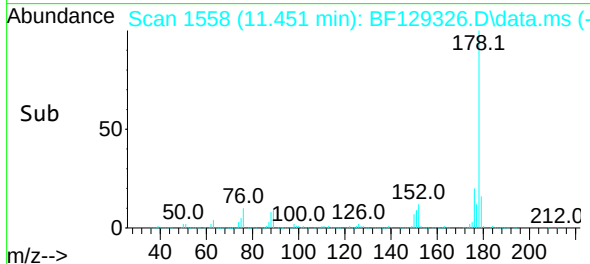
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



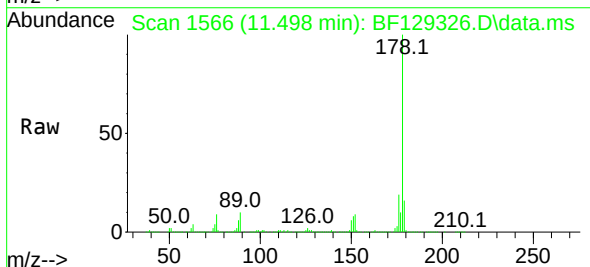
Tgt Ion:178 Resp: 192862
Ion Ratio Lower Upper
178 100
176 19.9 16.0 24.0
179 16.3 12.6 19.0

Manual Integrations
APPROVED

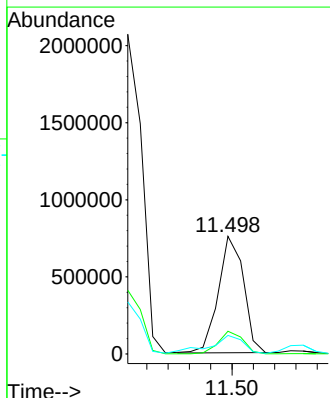
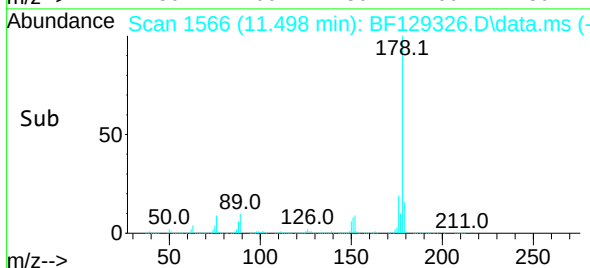
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022

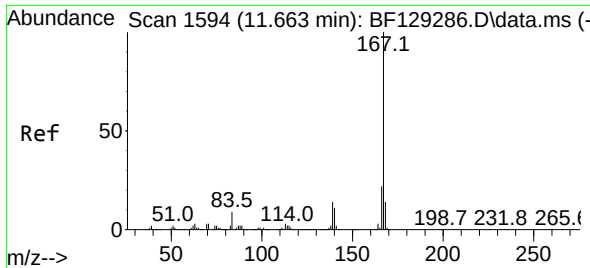


#72
Anthracene
Concen: 22.286 ng
RT: 11.498 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



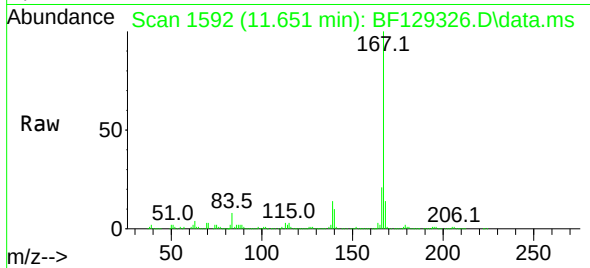
Tgt Ion:178 Resp: 622858
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.8 12.6 19.0





#73
 Carbazole
 Concen: 10.174 ng
 RT: 11.651 min Scan# 1594
 Delta R.T. -0.012 min
 Lab File: BF129326.D
 Acq: 22 Jul 2022 20:54

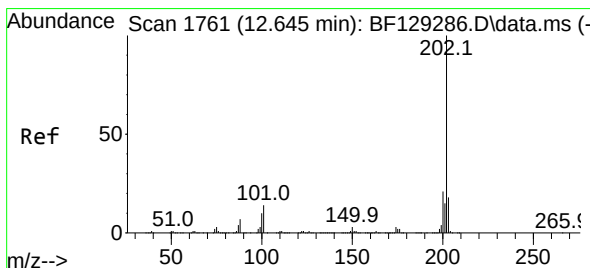
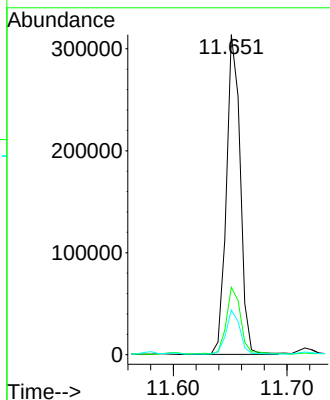
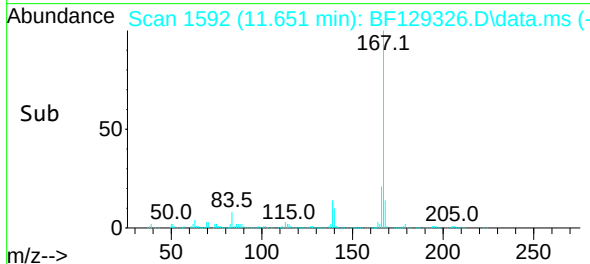
Instrument :
 BNA_F
 ClientSampleId :
 ENV-DE-3(5-10)



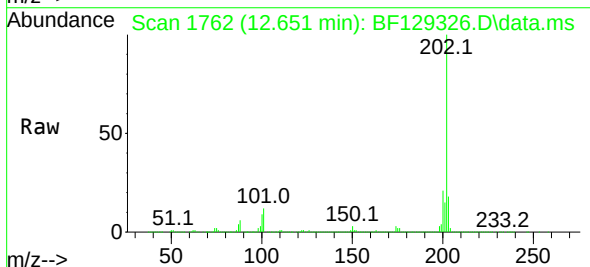
Tgt Ion:167 Resp: 265230
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.7 26.5
 139 14.0 11.2 16.8

Manual Integrations
 APPROVED

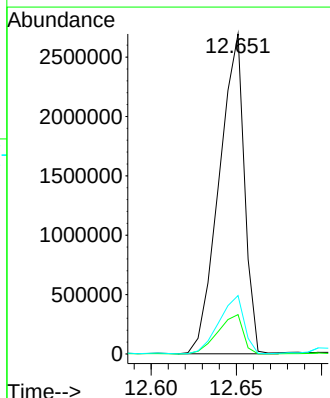
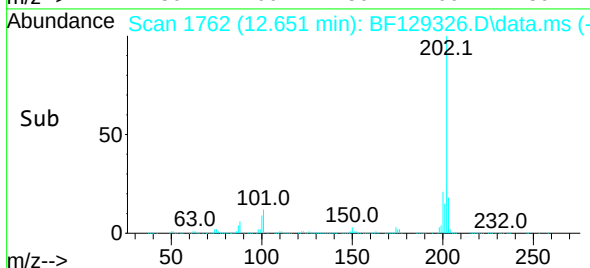
Reviewed By :Christian Giraldo 07/25/2022
 Supervised By :Jagrut Upadhyay 07/25/2022

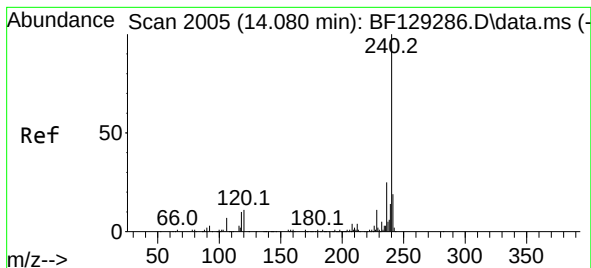


#75
 Fluoranthene
 Concen: 96.564 ng
 RT: 12.651 min Scan# 1762
 Delta R.T. 0.006 min
 Lab File: BF129326.D
 Acq: 22 Jul 2022 20:54



Tgt Ion:202 Resp: 2775872
 Ion Ratio Lower Upper
 202 100
 101 12.3 0.0 31.4
 203 18.3 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 2005

Delta R.T. -0.006 min

Lab File: BF129326.D

Acq: 22 Jul 2022 20:54

Instrument :

BNA_F

ClientSampleId :

ENV-DE-3(5-10)

Tgt Ion:240 Resp: 391745

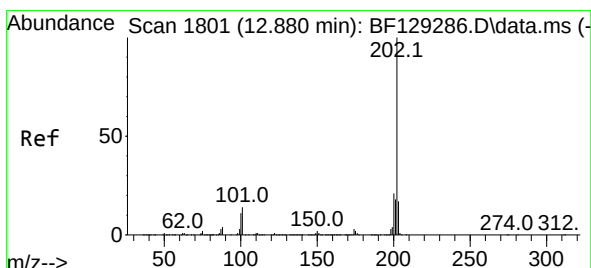
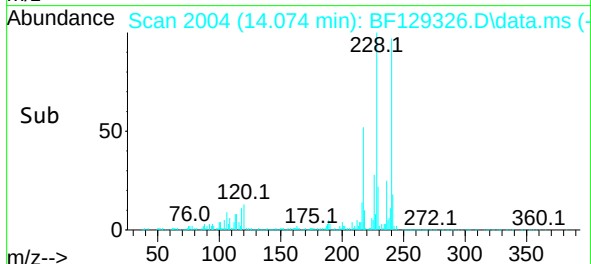
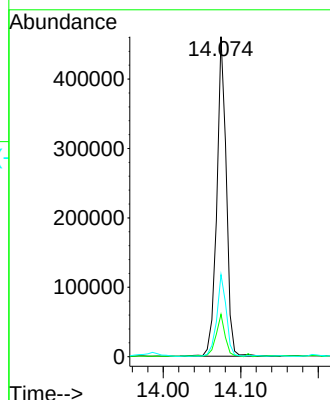
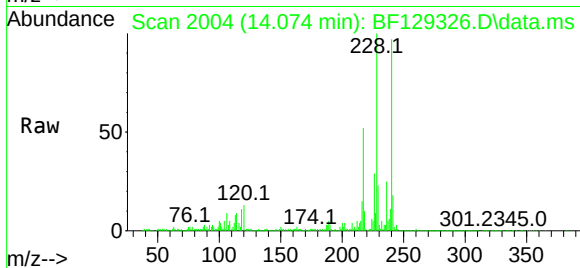
Ion	Ratio	Lower	Upper
240	100		
120	13.2	8.9	13.3
236	25.7	20.8	31.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/25/2022

Supervised By :Jagrut Upadhyay 07/25/2022



#78

Pyrene

Concen: 85.217 ng

RT: 12.880 min Scan# 1801

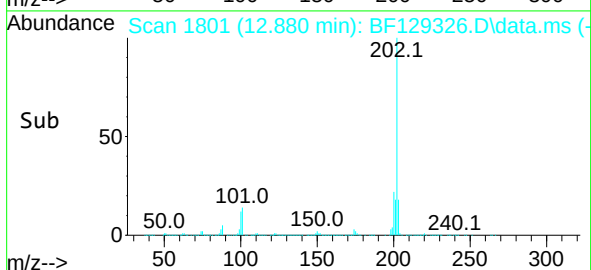
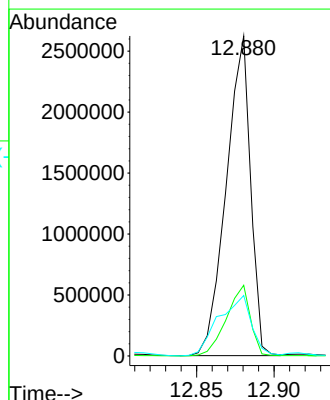
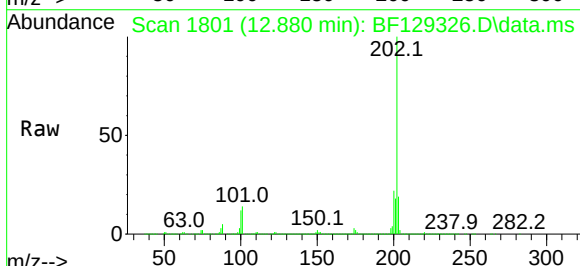
Delta R.T. 0.000 min

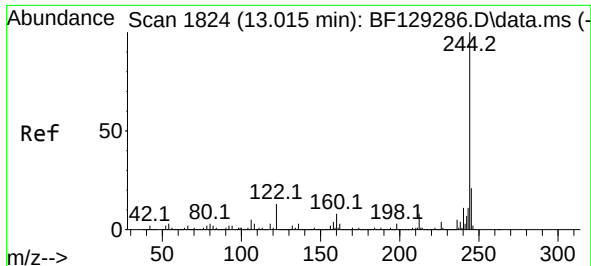
Lab File: BF129326.D

Acq: 22 Jul 2022 20:54

Tgt Ion:202 Resp: 2855230

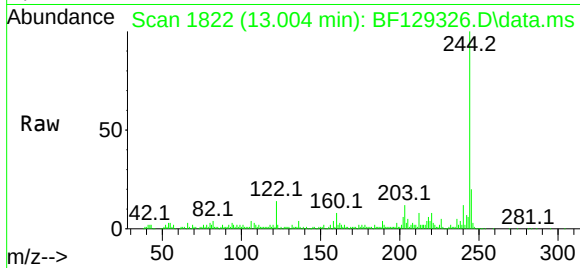
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.7	26.5
203	18.9	14.6	21.8





#79
 Terphenyl-d14
 Concen: 4.855 ng
 RT: 13.004 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF129326.D
 Acq: 22 Jul 2022 20:54

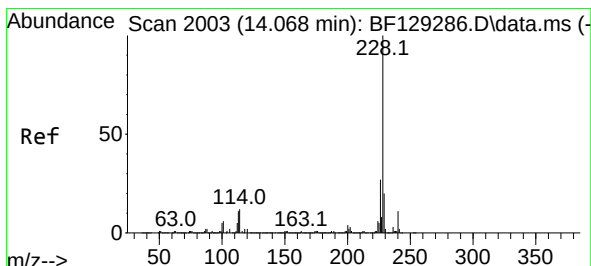
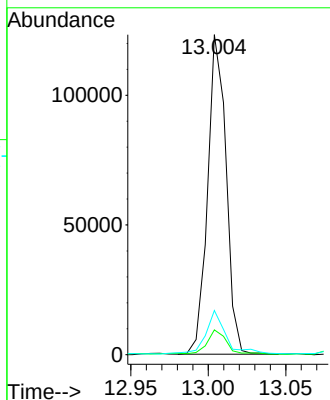
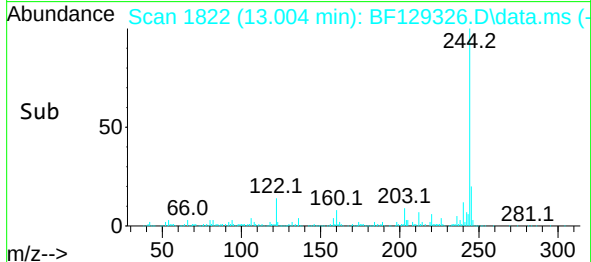
Instrument :
 BNA_F
 ClientSampleId :
 ENV-DE-3(5-10)



Tgt Ion:244 Resp: 102120
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.1 9.1
 122 13.8 8.8 13.2

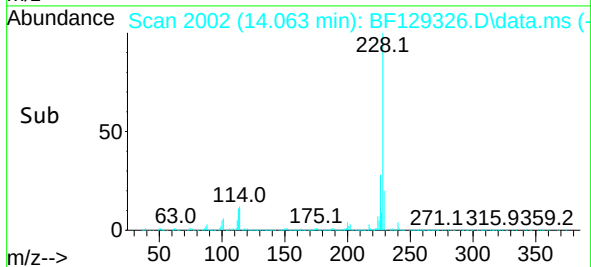
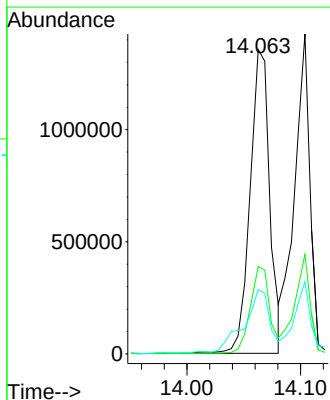
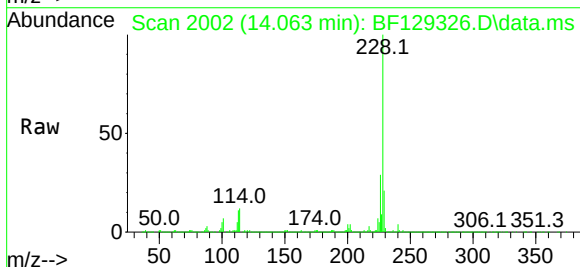
Manual Integrations
 APPROVED

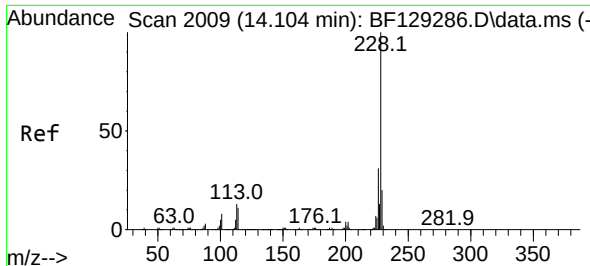
Reviewed By :Christian Giraldo 07/25/2022
 Supervised By :Jagrut Upadhyay 07/25/2022



#81
 Benzo(a)anthracene
 Concen: 60.571 ng
 RT: 14.063 min Scan# 2002
 Delta R.T. -0.006 min
 Lab File: BF129326.D
 Acq: 22 Jul 2022 20:54

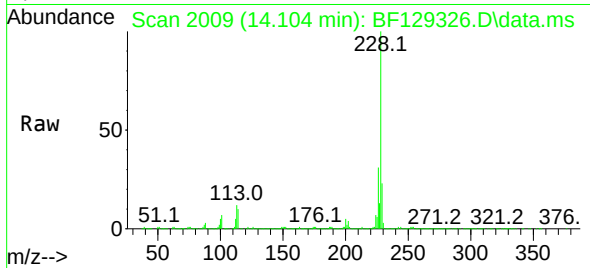
Tgt Ion:228 Resp: 1633928
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.1 33.1
 229 21.2 15.8 23.8





#83
Chrysene
Concen: 53.279 ng
RT: 14.104 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

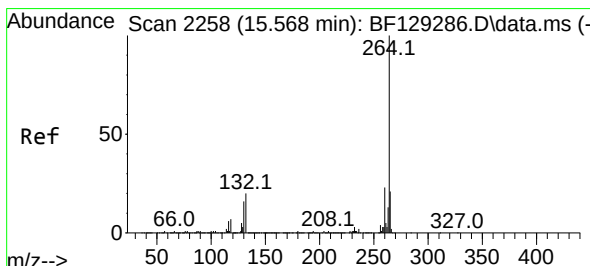
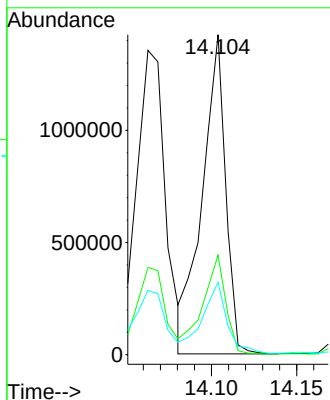
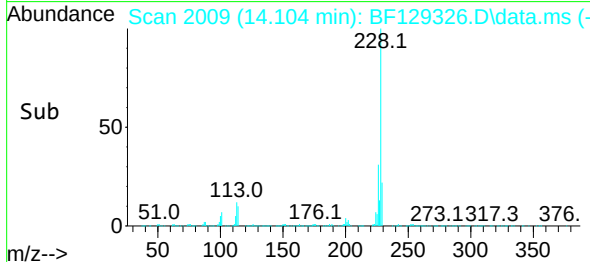
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



Tgt Ion:228 Resp: 1356549
Ion Ratio Lower Upper
228 100
226 31.1 24.3 36.5
229 22.6 15.9 23.9

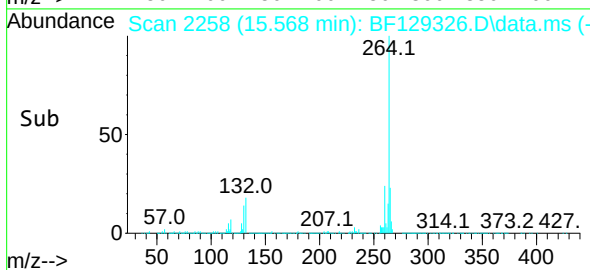
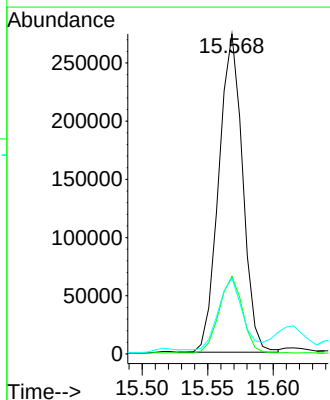
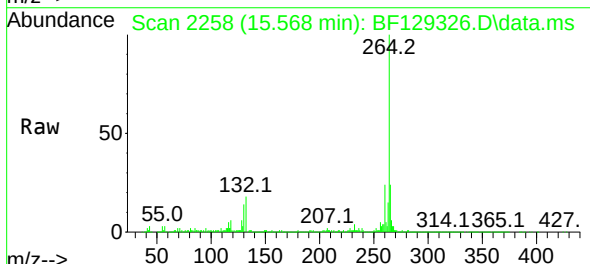
Manual Integrations
APPROVED

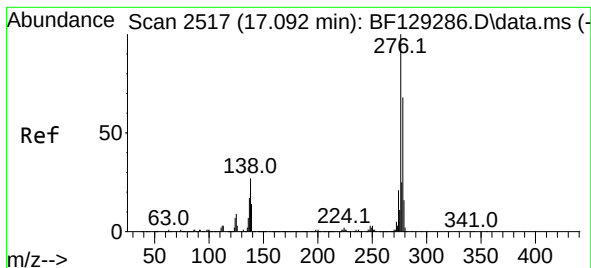
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

Tgt Ion:264 Resp: 345687
Ion Ratio Lower Upper
264 100
260 24.3 18.4 27.6
265 23.6 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.374 ng

RT: 17.080 min Scan# 2118

Delta R.T. -0.012 min

Lab File: BF129326.D

Acq: 22 Jul 2022 20:54

Instrument :

BNA_F

ClientSampleId :

ENV-DE-3(5-10)

Tgt Ion:276 Resp: 601324

Ion Ratio Lower Upper

276 100

138 20.7 21.1 31.7

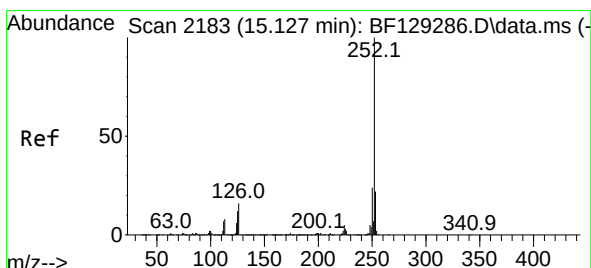
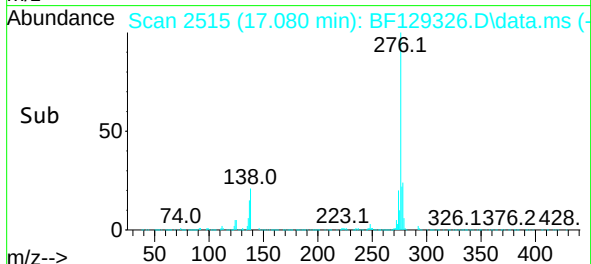
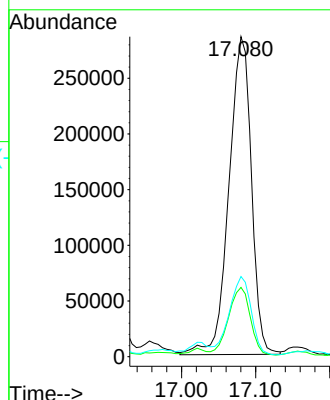
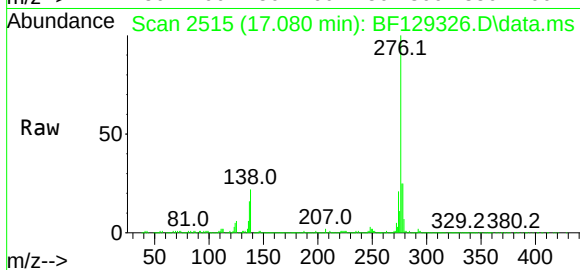
277 24.0 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/25/2022

Supervised By :Jagrut Upadhyay 07/25/2022



#88

Benzo(b)fluoranthene

Concen: 70.307 ng m

RT: 15.133 min Scan# 2184

Delta R.T. 0.006 min

Lab File: BF129326.D

Acq: 22 Jul 2022 20:54

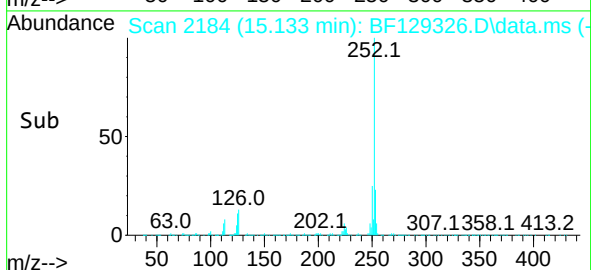
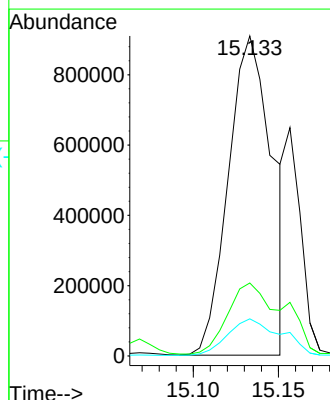
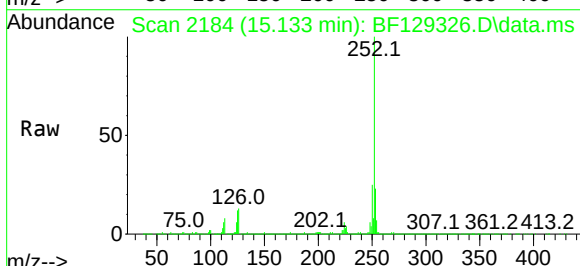
Tgt Ion:252 Resp: 1617653

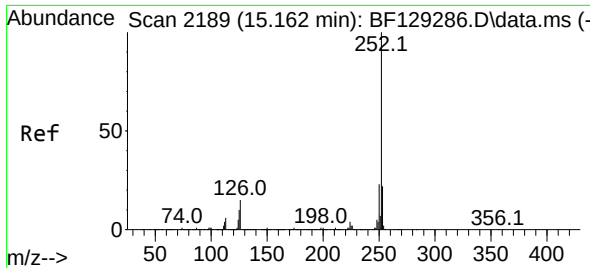
Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

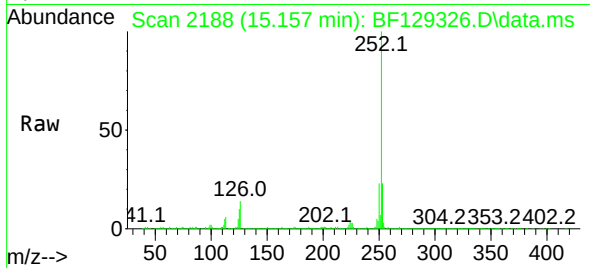
125 11.6 8.0 12.0





#89
Benzo(k)fluoranthene
Concen: 18.324 ng m
RT: 15.157 min Scan# 2189
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

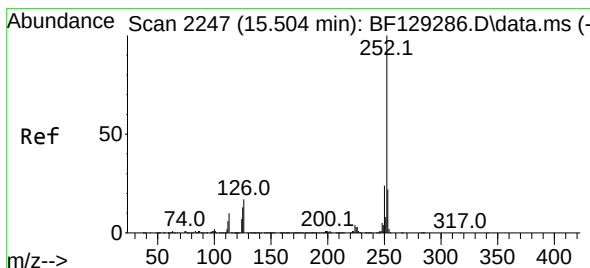
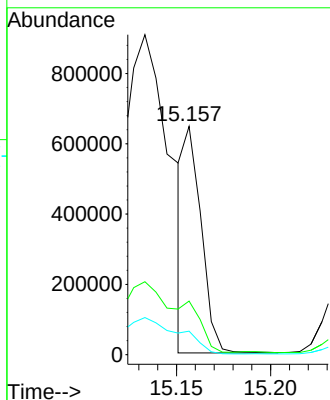
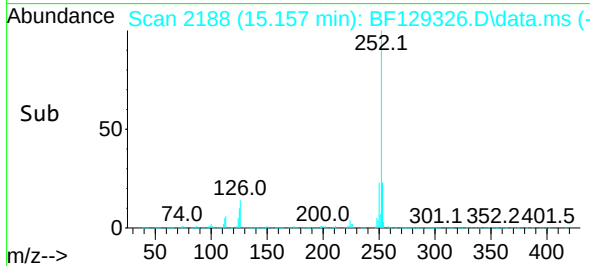
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



Tgt Ion:252 Resp: 40936
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.6
125 10.3 8.3 12.5

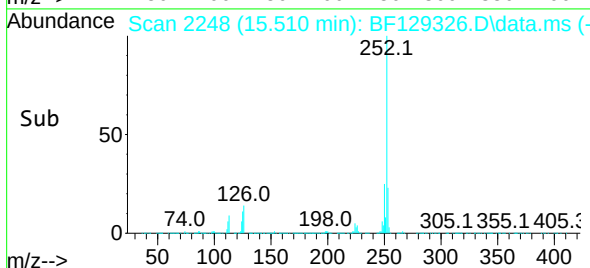
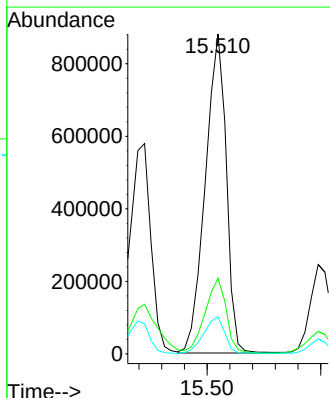
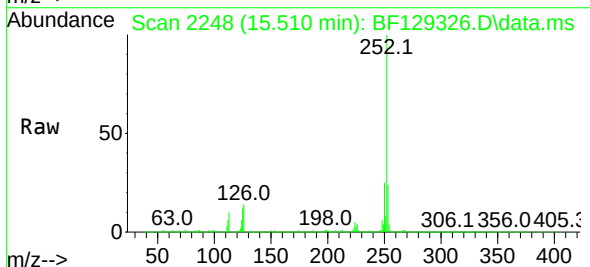
Manual Integrations
APPROVED

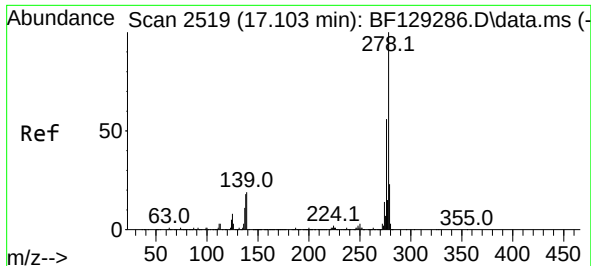
Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#90
Benzo(a)pyrene
Concen: 60.607 ng
RT: 15.510 min Scan# 2248
Delta R.T. 0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

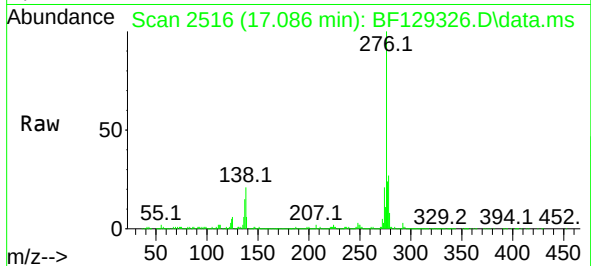
Tgt Ion:252 Resp: 1128292
Ion Ratio Lower Upper
252 100
253 23.7 17.0 25.6
125 11.7 8.8 13.2





#91
Dibenzo(a,h)anthracene
Concen: 7.982 ng m
RT: 17.086 min Scan# 2519
Delta R.T. -0.017 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54

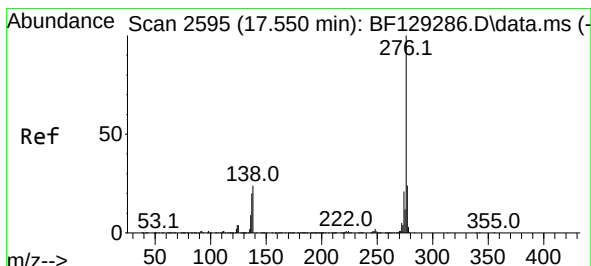
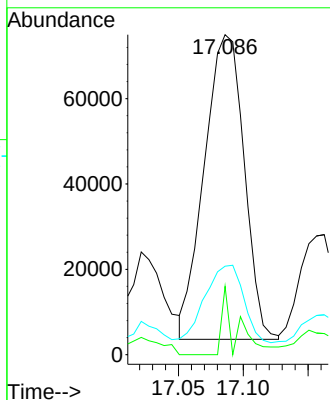
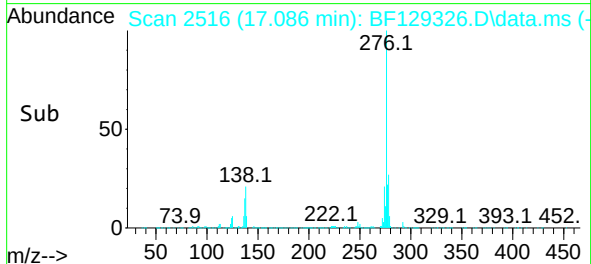
Instrument :
BNA_F
ClientSampleId :
ENV-DE-3(5-10)



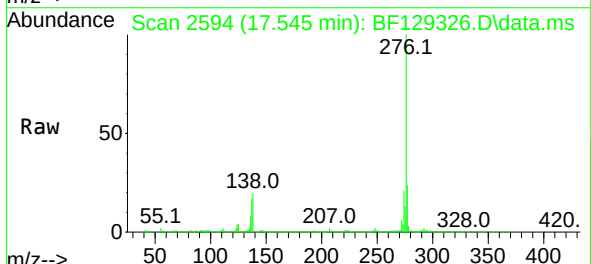
Tgt Ion:278 Resp: 15245
Ion Ratio Lower Upper
278 100
139 21.3 12.8 19.2
279 27.7 18.6 28.0

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 07/25/2022
Supervised By :Jagrut Upadhyay 07/25/2022



#92
Benzo(g,h,i)perylene
Concen: 18.748 ng
RT: 17.545 min Scan# 2594
Delta R.T. -0.006 min
Lab File: BF129326.D
Acq: 22 Jul 2022 20:54



Tgt Ion:276 Resp: 372108
Ion Ratio Lower Upper
276 100
277 23.8 19.1 28.7
138 19.9 18.0 27.0

