

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133051.D
 Acq On : 26 Apr 2023 03:37
 Operator : CG\JU
 Sample : 02270-14 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-24-5-7-20230411

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/26/2023
 Supervised By : Jagrut Upadhyay 04/26/2023

Quant Time: Apr 26 04:37:08 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 25 18:24:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	218247	20.000	ng	0.00
21) Naphthalene-d8	8.028	136	821955	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	393492	20.000	ng	0.00
64) Phenanthrene-d10	11.257	188	603059	20.000	ng	0.00
76) Chrysene-d12	13.898	240	426031	20.000	ng	0.00
86) Perylene-d12	15.321	264	380236	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	113915	7.885	ng	-0.01
7) Phenol-d6	6.375	99	150034	8.367	ng	-0.01
23) Nitrobenzene-d5	7.298	82	79059	5.192	ng	-0.01
42) 2,4,6-Tribromophenol	10.563	330	20133	5.088	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	177598	7.551	ng	-0.01
79) Terphenyl-d14	12.839	244	154214	6.243	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.045	128	510198	12.415	ng	99
37) 2-Methylnaphthalene	8.734	142	114323	4.069	ng	98
38) 1-Methylnaphthalene	8.834	142	59331	2.257	ng	98
52) Acenaphthene	9.810	154	348863	14.274	ng	99
55) Dibenzofuran	9.981	168	299028	8.969	ng	99
58) Fluorene	10.322	166	345162	14.131	ng	99
71) Phenanthrene	11.286	178	2076933	64.078	ng	99
72) Anthracene	11.333	178	696422	20.995	ng	100
73) Carbazole	11.486	167	248135	8.401	ng	99
75) Fluoranthene	12.474	202	2412679	74.168	ng	99
78) Pyrene	12.704	202	2092331	57.292	ng	99
81) Benzo(a)anthracene	13.892	228	1493838	50.990	ng	99
83) Chrysene	13.927	228	1383902	47.249	ng	98
87) Indeno(1,2,3-cd)pyrene	16.704	276	520916	24.085	ng	94
88) Benzo(b)fluoranthene	14.921	252	1486518m	61.451	ng	
89) Benzo(k)fluoranthene	14.945	252	569708m	23.758	ng	
90) Benzo(a)pyrene	15.268	252	1016707	46.176	ng	98
91) Dibenzo(a,h)anthracene	16.709	278	148126	8.211	ng	96
92) Benzo(g,h,i)perylene	17.115	276	449933	25.264	ng	99

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

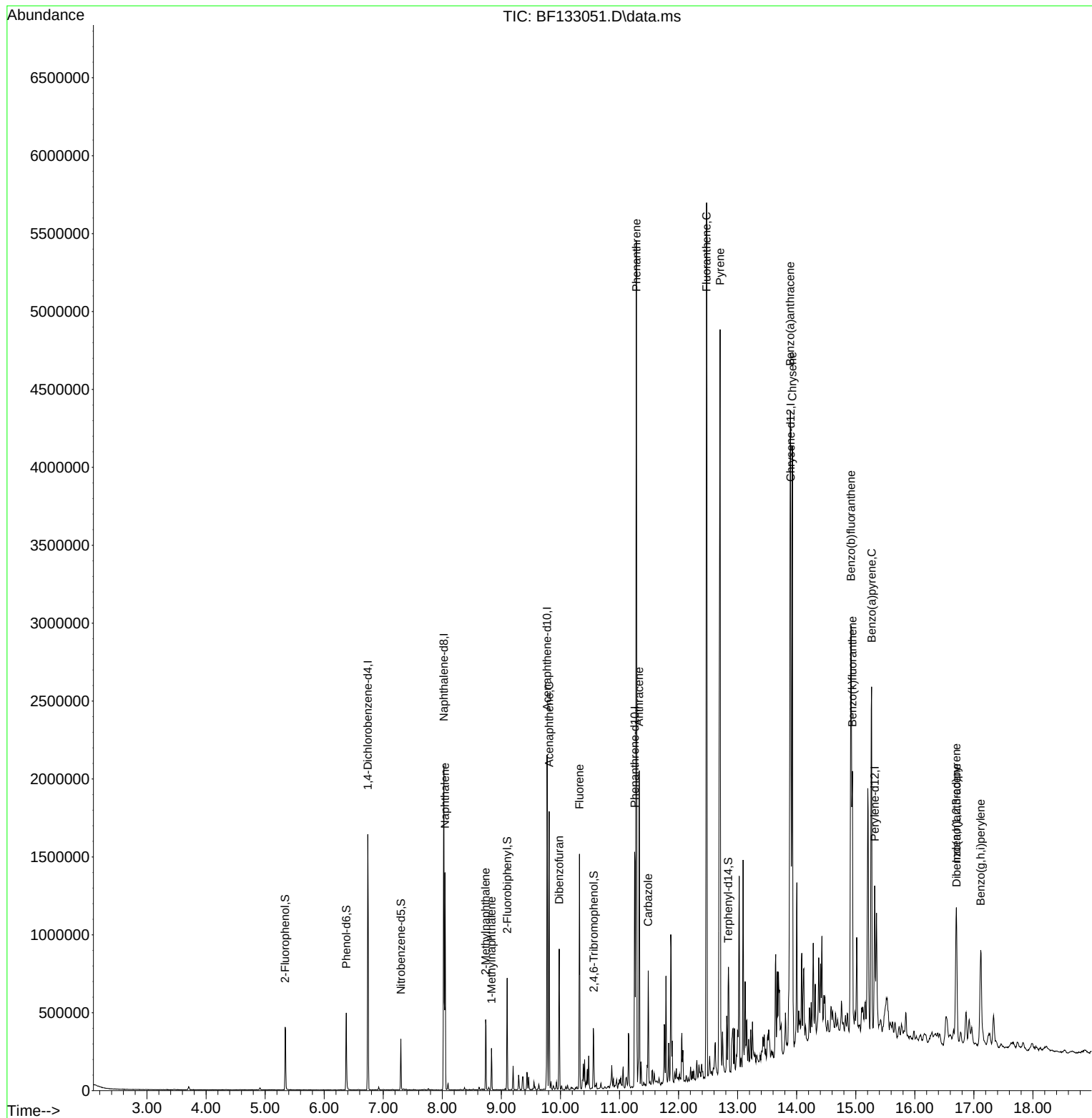
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133051.D
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Misc :
ALS Vial : 20 Sample Multiplier: 1

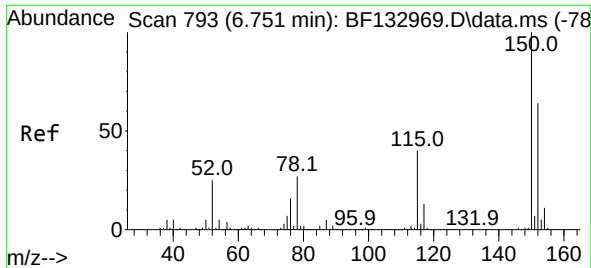
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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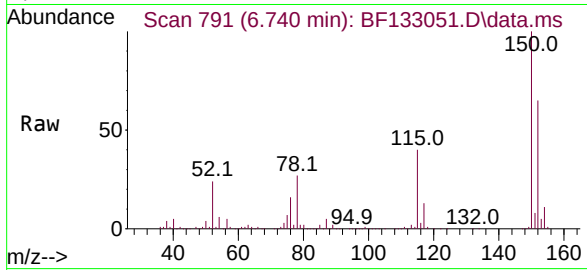
Reviewed By : Christian Giraldo 04/26/2023
Supervised By : Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 793
Delta R.T. -0.005 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

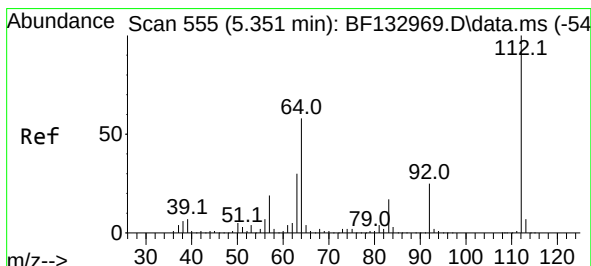
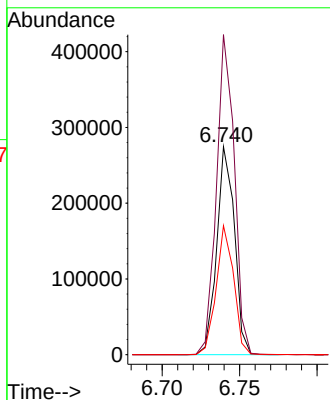
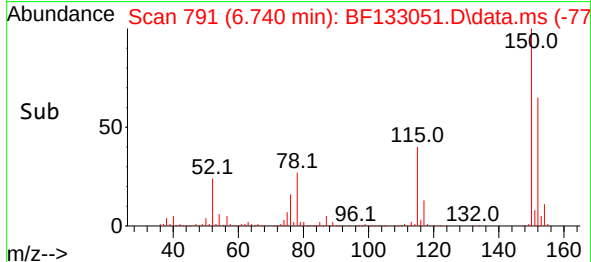
Instrument :
BNA_F
ClientSampleId :
SB-24-5-7-20230411



Tgt Ion:152 Resp: 21824
Ion Ratio Lower Upper
152 100
150 153.9 124.8 187.2
115 62.0 49.9 74.9

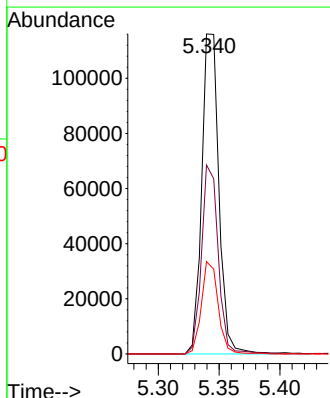
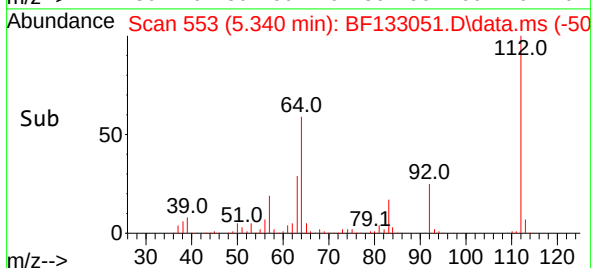
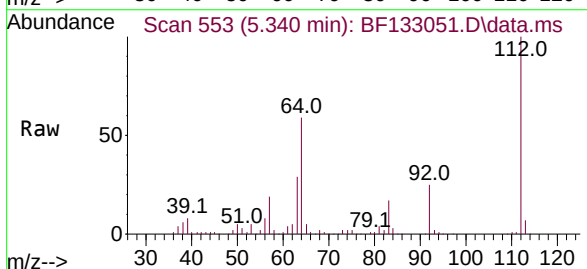
Manual Integrations
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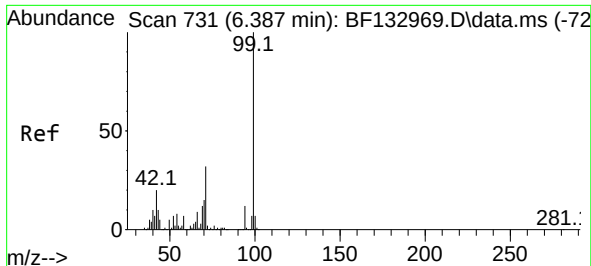
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#5
2-Fluorophenol
Concen: 7.885 ng
RT: 5.340 min Scan# 553
Delta R.T. -0.012 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

Tgt Ion:112 Resp: 113915
Ion Ratio Lower Upper
112 100
64 59.0 46.8 70.2
63 28.9 23.8 35.8





#7

Phenol-d6

Concen: 8.367 ng

RT: 6.375 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF133051.D

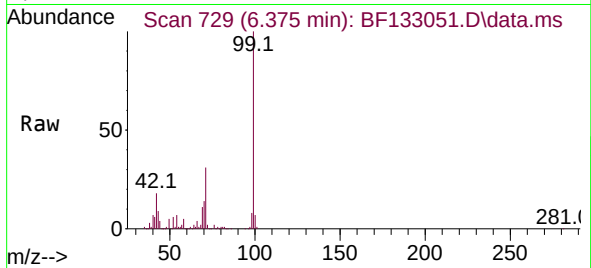
Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

SB-24-5-7-20230411



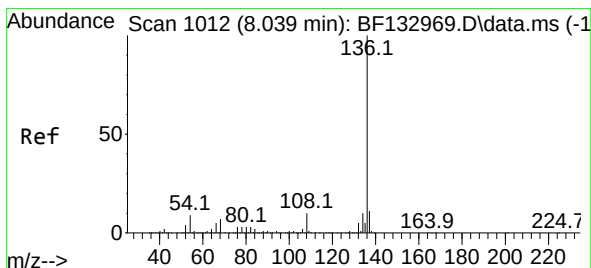
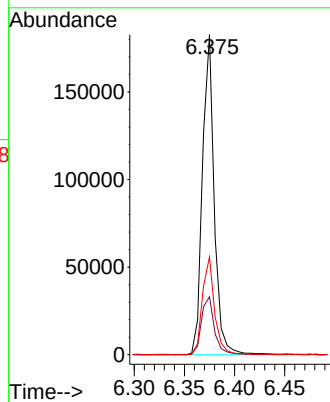
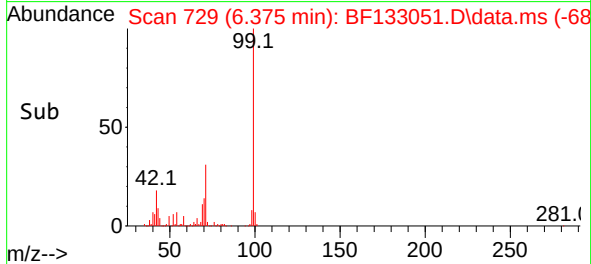
Tgt Ion:	99	Ratio	100	Lower	Upper
99	100				
42	18.1		16.3	24.5	
71	30.5		25.6	38.4	

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#21

Naphthalene-d8

Concen: 20.000 ng

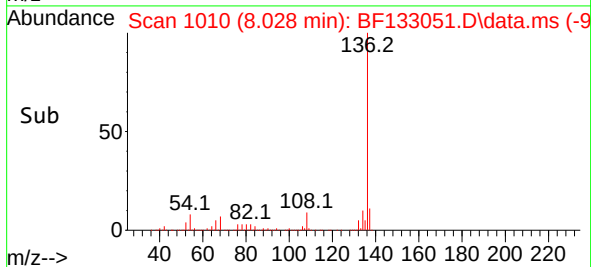
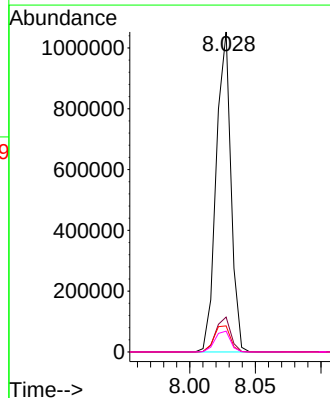
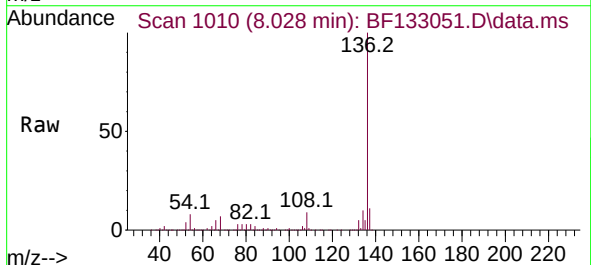
RT: 8.028 min Scan# 1010

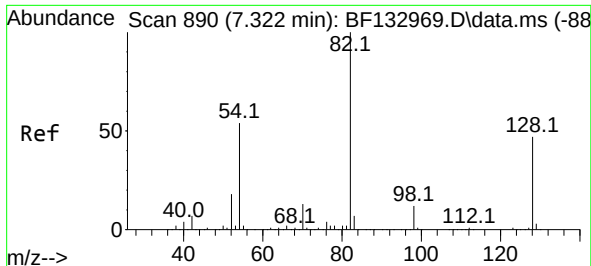
Delta R.T. 0.000 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Tgt Ion:	136	Ratio	100	Lower	Upper
136	100				
137	10.9		8.6	13.0	
54	8.2		7.0	10.4	
68	6.5		5.4	8.2	





#23

Nitrobenzene-d5

Concen: 5.192 ng

RT: 7.298 min Scan# 80

Delta R.T. -0.012 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

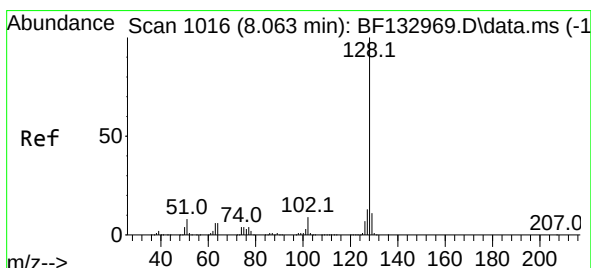
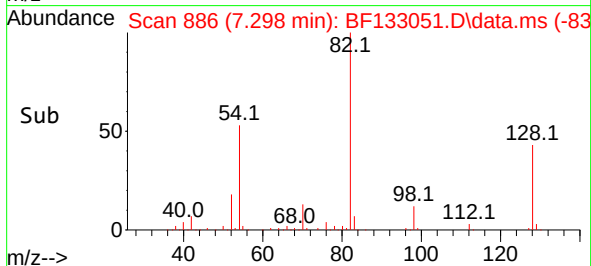
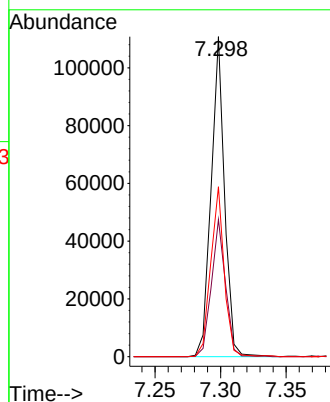
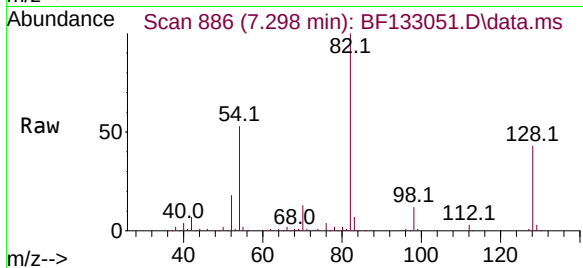
SB-24-5-7-20230411

Tgt Ion: 82 Resp: 79059
 Ion Ratio Lower Upper
 82 100
 128 42.9 37.7 56.5
 54 53.1 43.0 64.4

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#31

Naphthalene

Concen: 12.415 ng

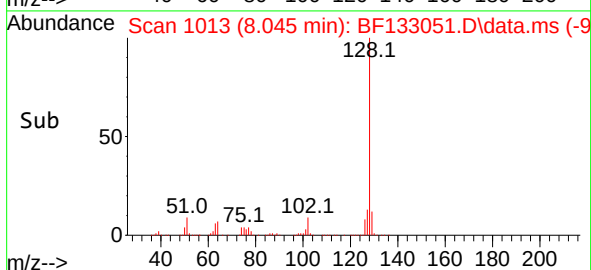
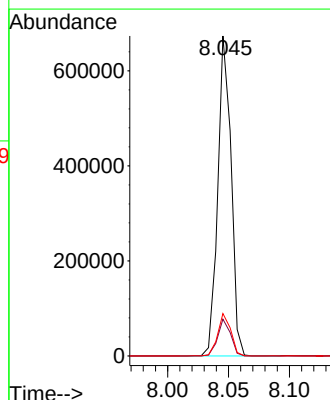
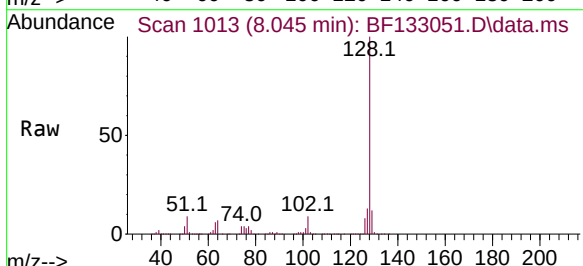
RT: 8.045 min Scan# 1013

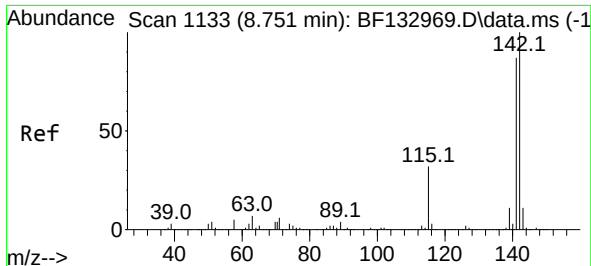
Delta R.T. -0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Tgt Ion:128 Resp: 510198
 Ion Ratio Lower Upper
 128 100
 129 11.5 8.8 13.2
 127 13.3 10.7 16.1





#37

2-Methylnaphthalene

Concen: 4.069 ng

RT: 8.734 min Scan# 1142

Delta R.T. -0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

SB-24-5-7-20230411

Tgt Ion:142 Resp: 11432

Ion Ratio Lower Upper

142 100

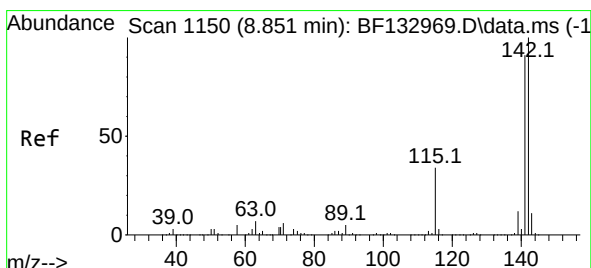
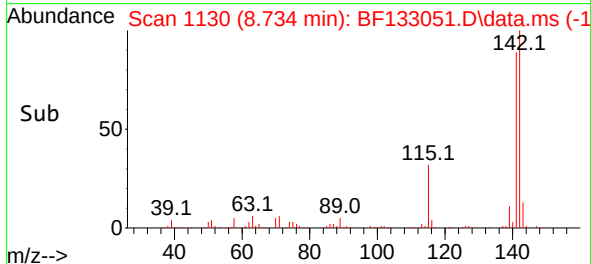
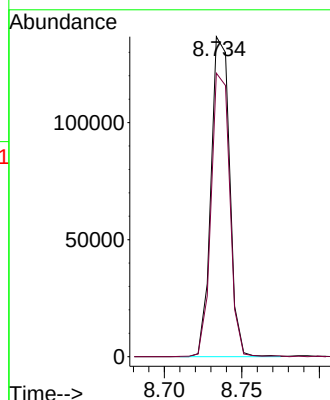
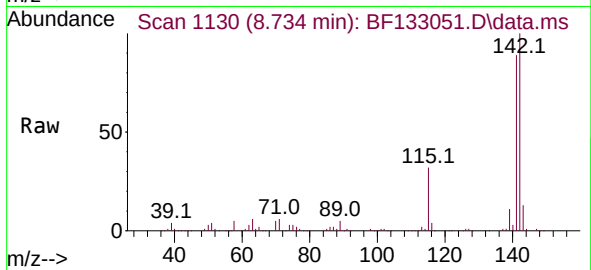
141 88.6 69.4 104.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/26/2023



#38

1-Methylnaphthalene

Concen: 2.257 ng

RT: 8.834 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF133051.D

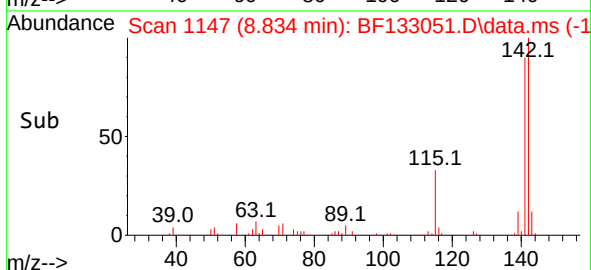
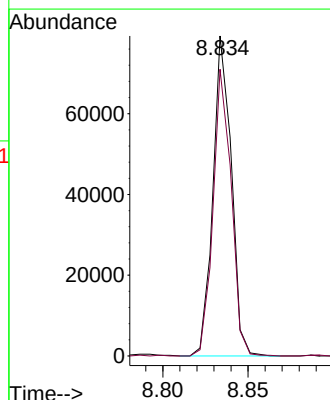
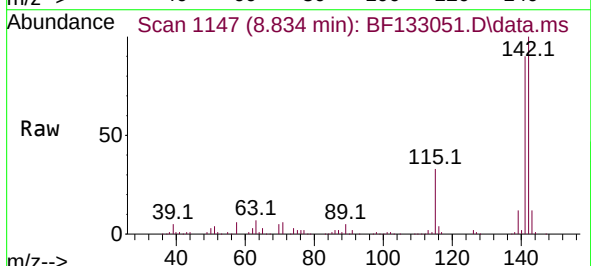
Acq: 26 Apr 2023 03:37

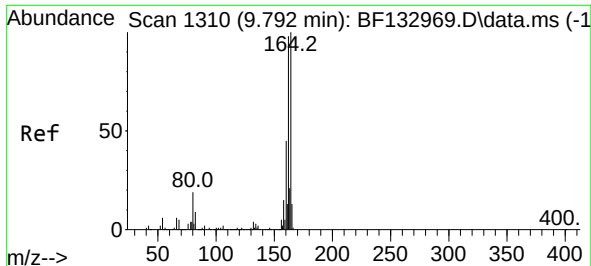
Tgt Ion:142 Resp: 59331

Ion Ratio Lower Upper

142 100

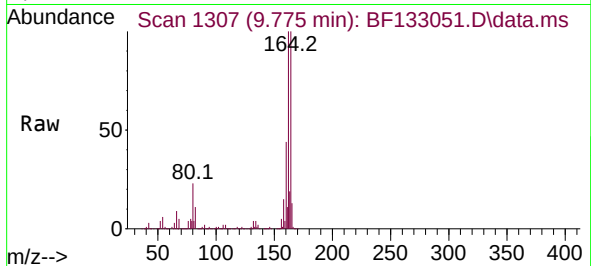
141 89.6 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

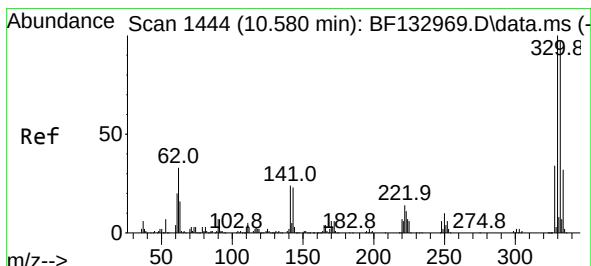
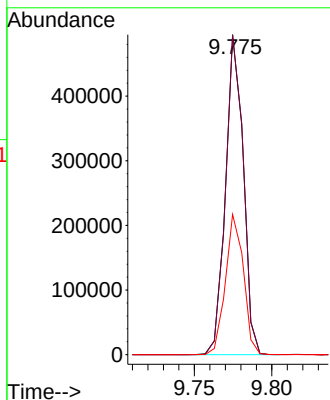
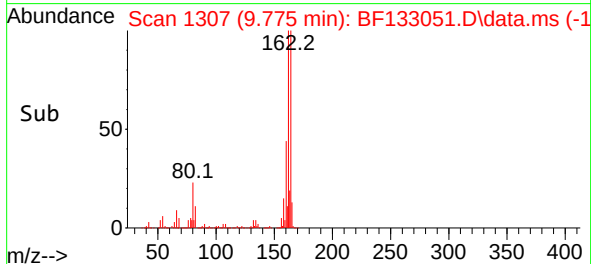
Instrument :
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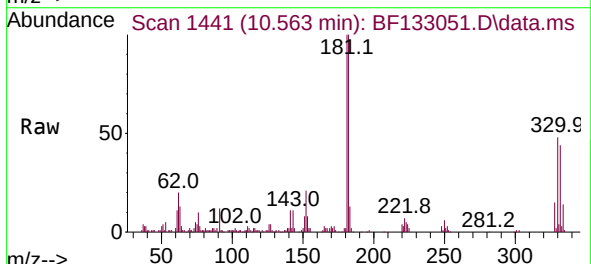
Tgt Ion:164 Resp: 393492
Ion Ratio Lower Upper
164 100
162 99.9 78.7 118.1
160 43.9 35.8 53.6

Manual Integrations
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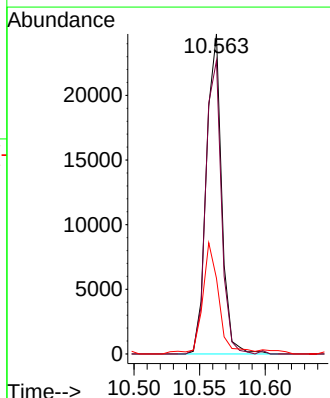
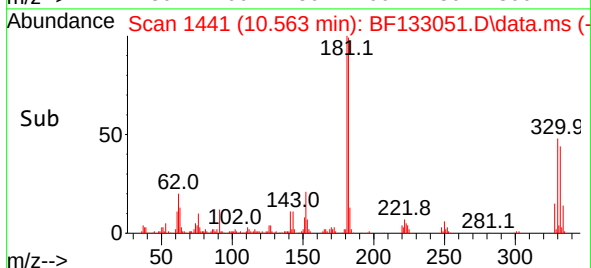
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

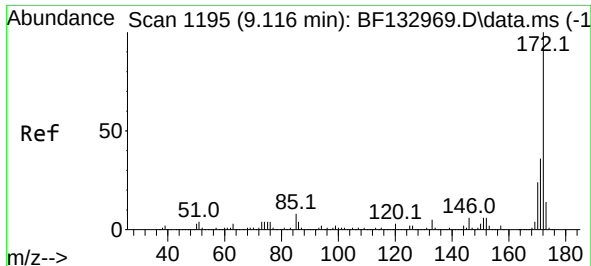


#42
2,4,6-Tribromophenol
Concen: 5.088 ng
RT: 10.563 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37



Tgt Ion:330 Resp: 20133
Ion Ratio Lower Upper
330 100
332 93.7 77.1 115.7
141 37.2 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 7.551 ng

RT: 9.098 min Scan# 1192

Delta R.T. -0.012 min

Lab File: BF133051.D

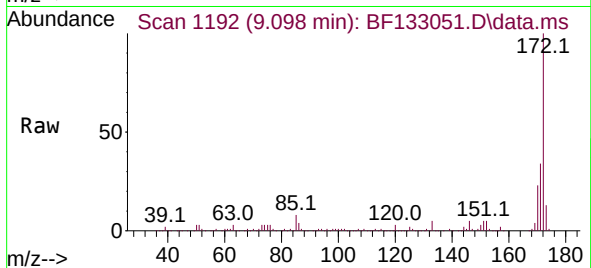
Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

SB-24-5-7-20230411



Tgt Ion:172 Resp: 177598

Ion Ratio Lower Upper

172 100

171 34.3 28.8 43.2

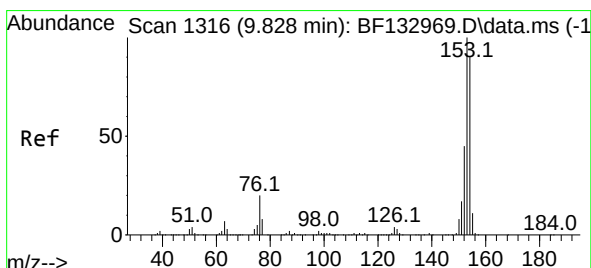
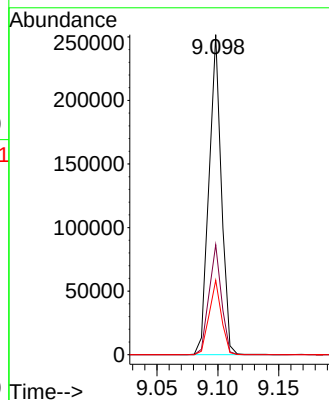
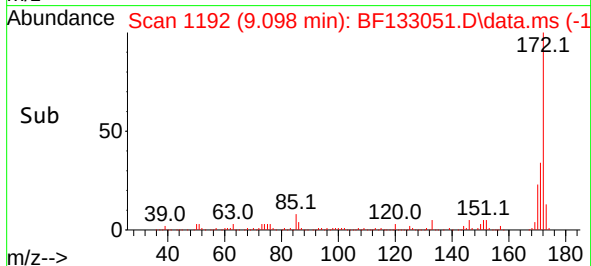
170 23.3 19.4 29.2

Manual Integrations

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#52

Acenaphthene

Concen: 14.274 ng

RT: 9.810 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

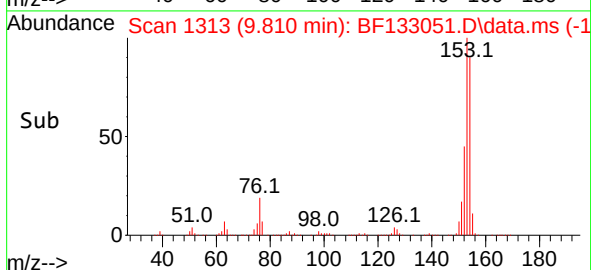
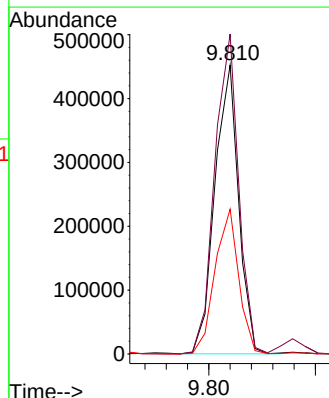
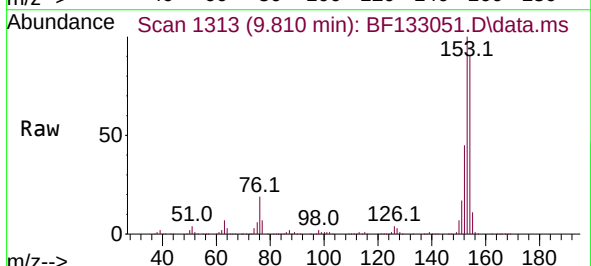
Tgt Ion:154 Resp: 348863

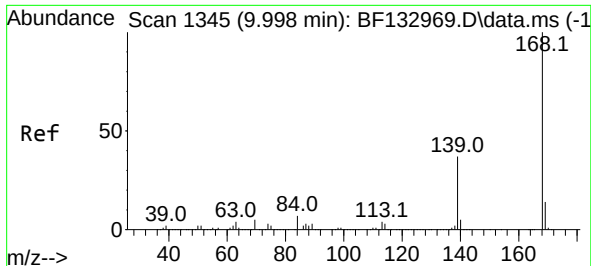
Ion Ratio Lower Upper

154 100

153 110.8 89.0 133.6

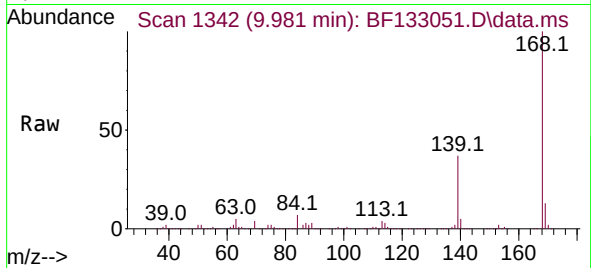
152 50.1 40.4 60.6





#55
Dibenzenofuran
Concen: 8.969 ng
RT: 9.981 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

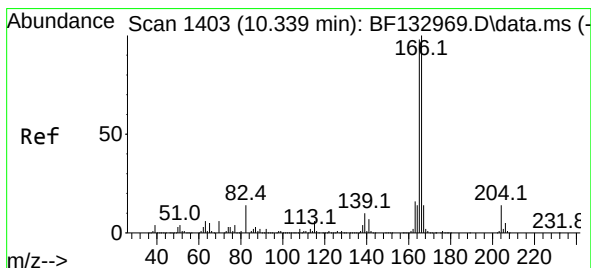
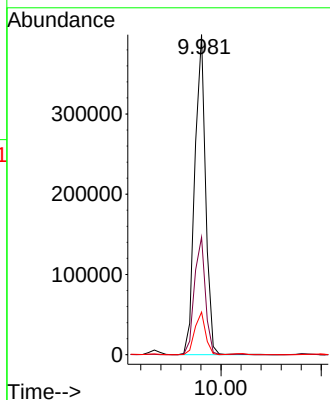
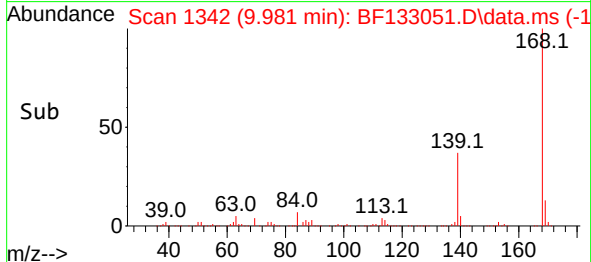
Instrument :
BNA_F
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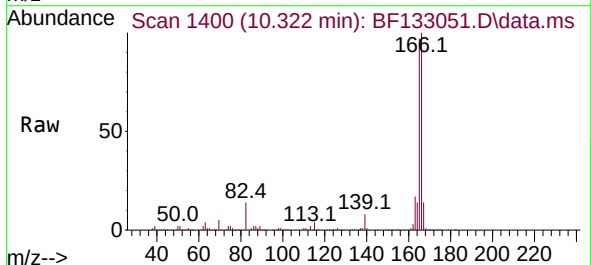
Tgt Ion:168 Resp: 299028
Ion Ratio Lower Upper
168 100
139 36.7 29.8 44.8
169 13.3 10.8 16.2

Manual Integrations
APPROVED

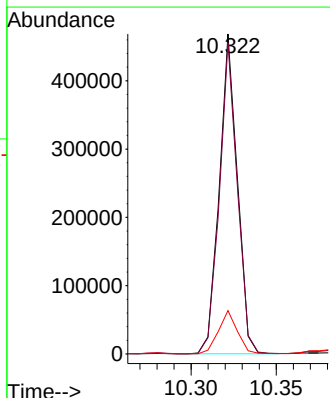
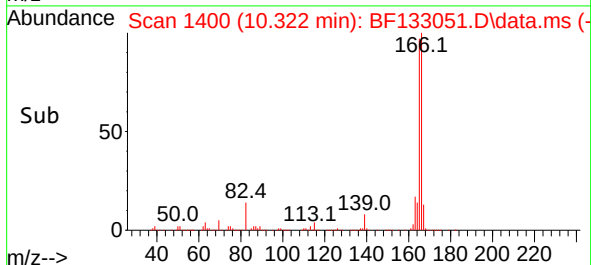
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

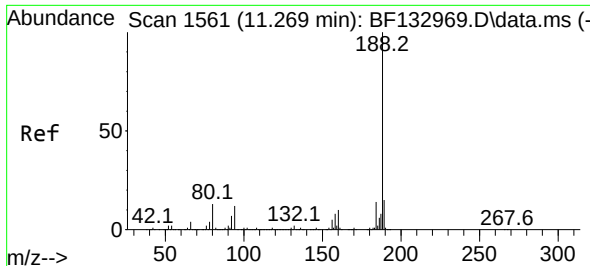


#58
Fluorene
Concen: 14.131 ng
RT: 10.322 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37



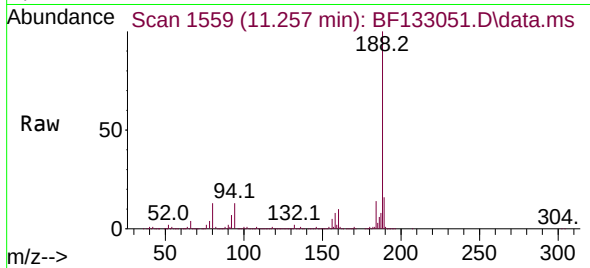
Tgt Ion:166 Resp: 345162
Ion Ratio Lower Upper
166 100
165 97.3 78.6 117.8
167 13.5 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.257 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

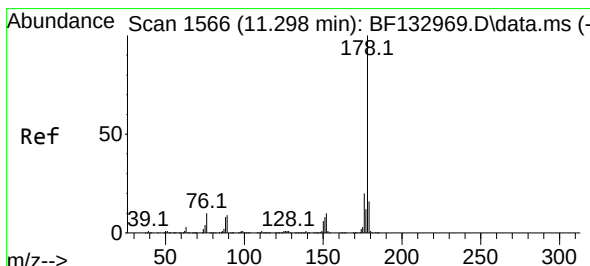
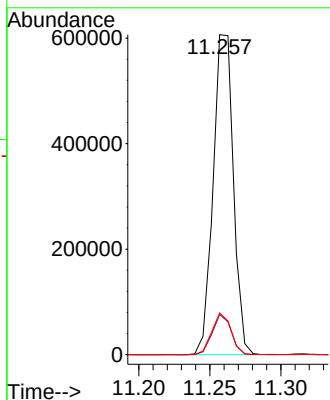
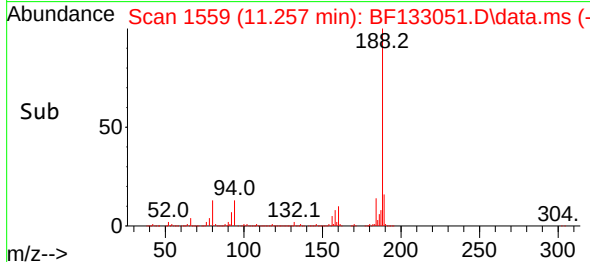
Instrument :
BNA_F
ClientSampleId :
SB-24-5-7-20230411



Tgt Ion:188 Resp: 603059
Ion Ratio Lower Upper
188 100
94 12.6 9.7 14.5
80 13.1 10.4 15.6

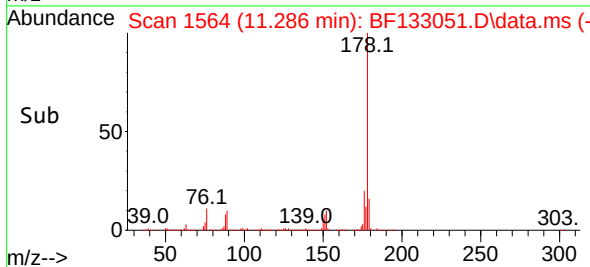
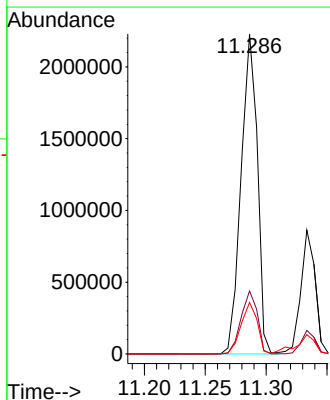
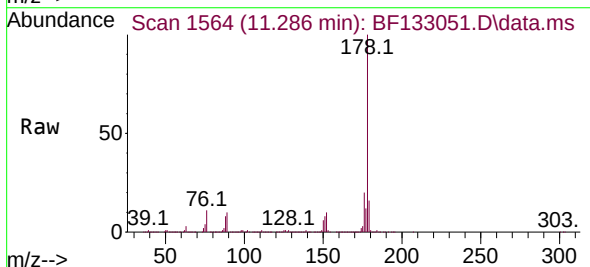
Manual Integrations
APPROVED

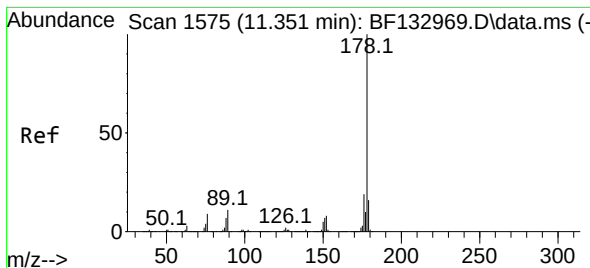
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#71
Phenanthrene
Concen: 64.078 ng
RT: 11.286 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

Tgt Ion:178 Resp: 2076933
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 16.1 12.5 18.7





#72

Anthracene

Concen: 20.995 ng

RT: 11.333 min Scan# 1572

Delta R.T. -0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

SB-24-5-7-20230411

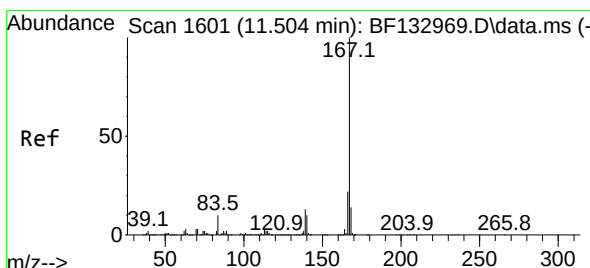
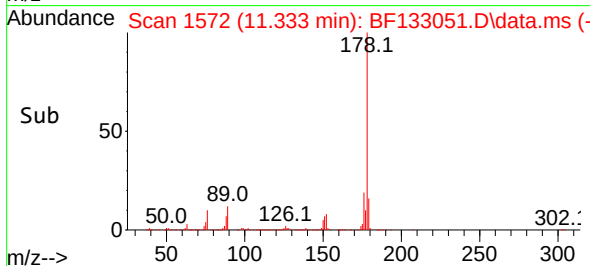
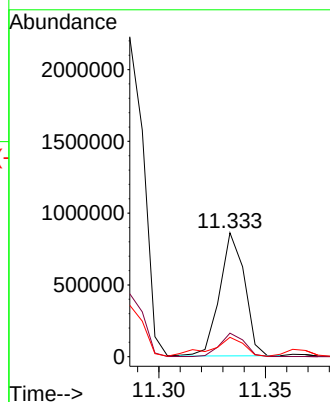
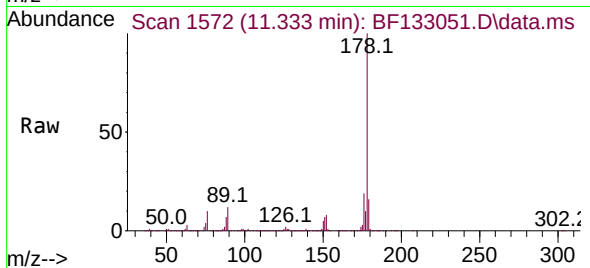
Tgt Ion:178 Resp: 69642

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.7	12.4	18.6

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#73

Carbazole

Concen: 8.401 ng

RT: 11.486 min Scan# 1598

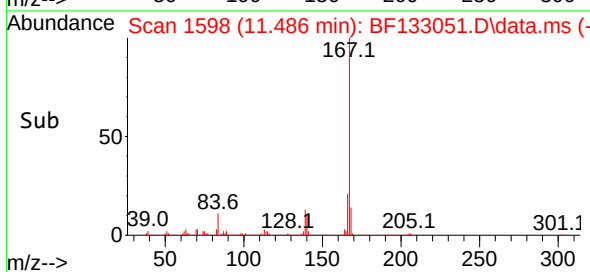
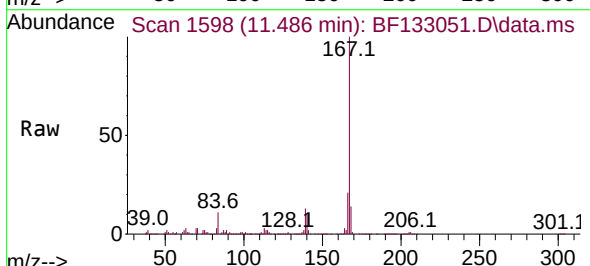
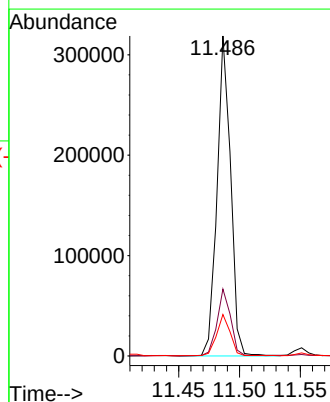
Delta R.T. -0.006 min

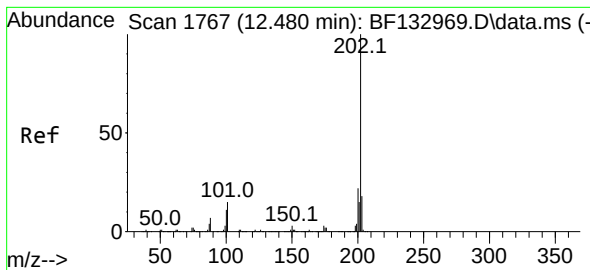
Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Tgt Ion:167 Resp: 248135

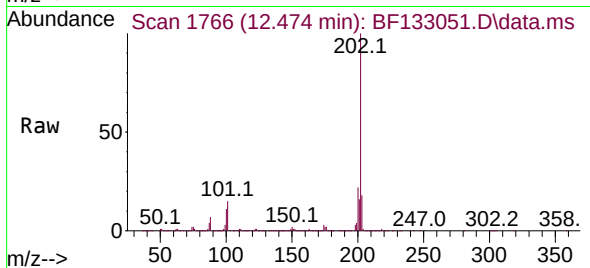
Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.4	26.0
139	13.0	10.6	16.0





#75
Fluoranthene
Concen: 74.168 ng
RT: 12.474 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

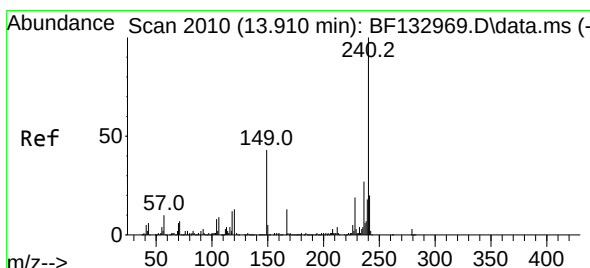
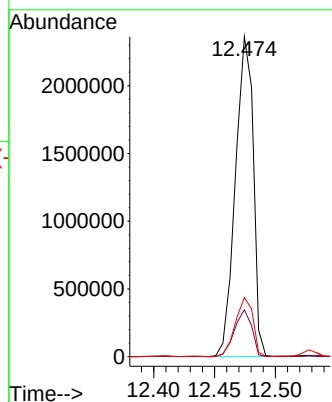
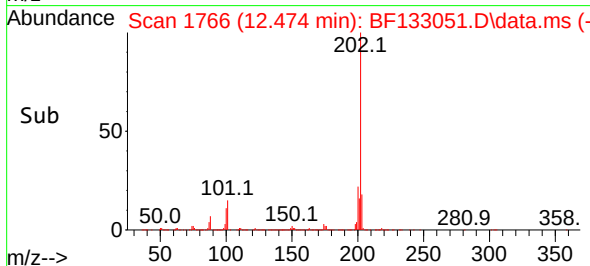
Instrument :
BNA_F
ClientSampleId :
SB-24-5-7-20230411



Tgt Ion:202 Resp: 2412679
Ion Ratio Lower Upper
202 100
101 14.7 0.0 35.3
203 18.5 0.0 38.1

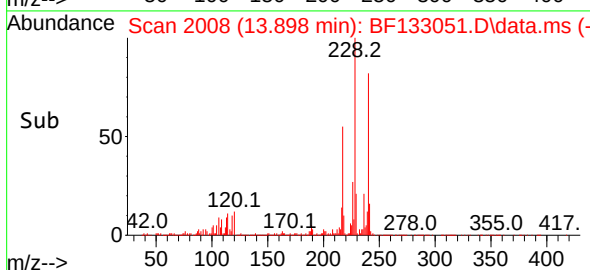
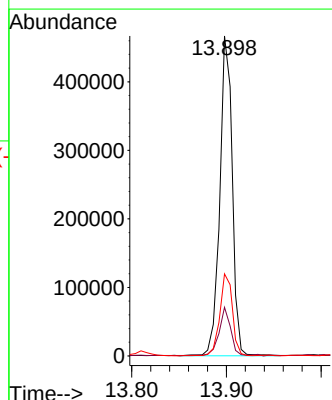
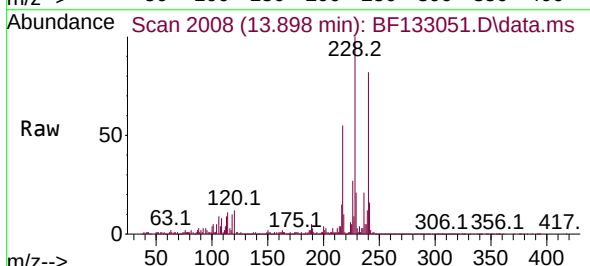
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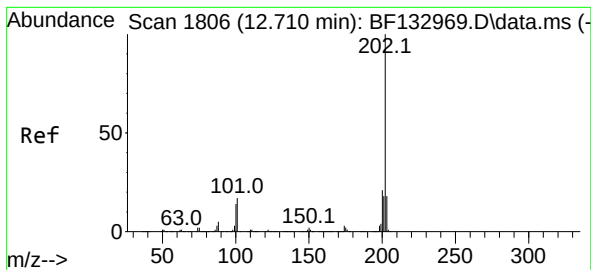
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.898 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

Tgt Ion:240 Resp: 426031
Ion Ratio Lower Upper
240 100
120 15.2 10.5 15.7
236 25.7 21.5 32.3





#78

Pyrene

Concen: 57.292 ng

RT: 12.704 min Scan# 1805

Delta R.T. 0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

SB-24-5-7-20230411

Tgt Ion:202 Resp: 209233

Ion Ratio Lower Upper

202 100

200 21.8 17.1 25.7

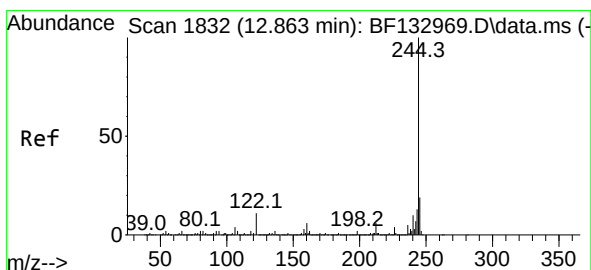
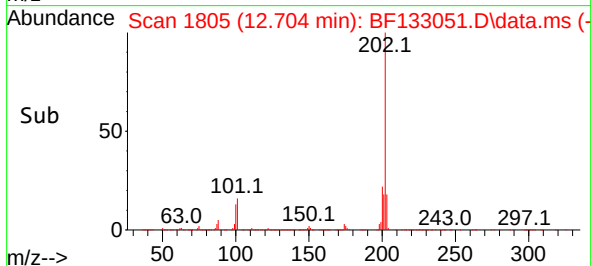
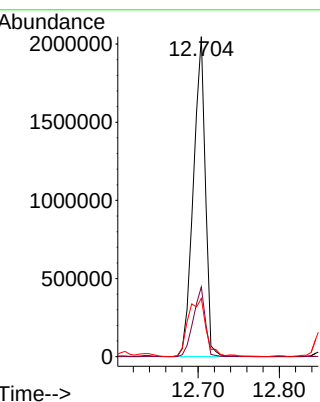
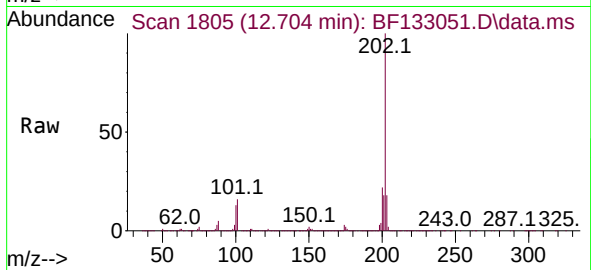
203 18.2 14.1 21.1

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#79

Terphenyl-d14

Concen: 6.243 ng

RT: 12.839 min Scan# 1828

Delta R.T. -0.012 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

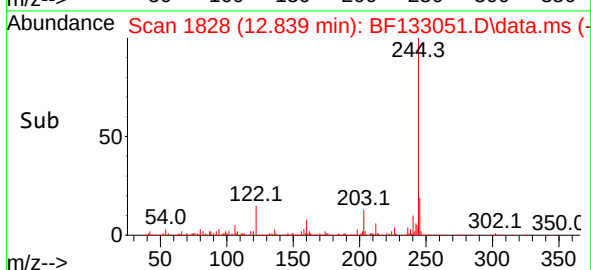
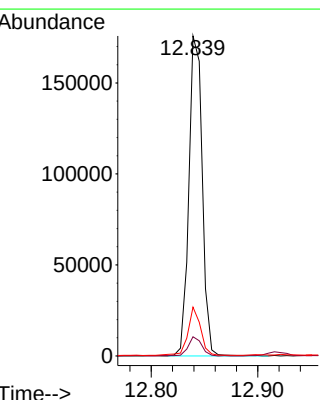
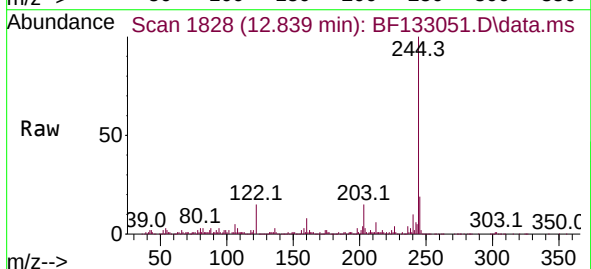
Tgt Ion:244 Resp: 154214

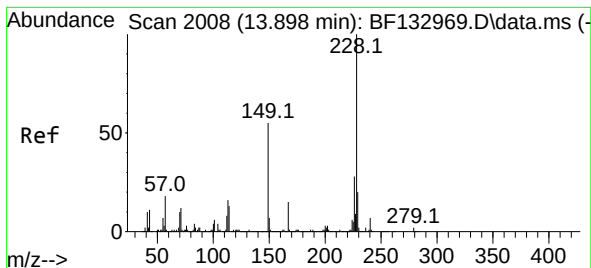
Ion Ratio Lower Upper

244 100

212 6.0 5.1 7.7

122 15.3 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 50.990 ng

RT: 13.892 min Scan# 2008

Delta R.T. 0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNF

ClientSampleId :

SB-24-5-7-20230411

Tgt Ion:228 Resp: 149383

Ion Ratio Lower Upper

228 100

226 28.1 22.2 33.4

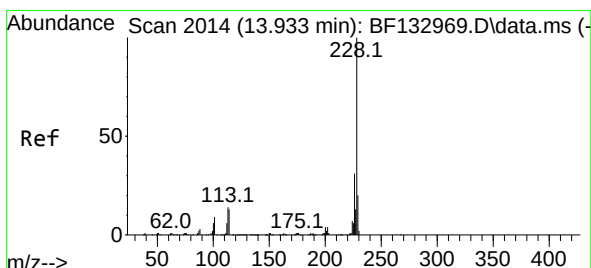
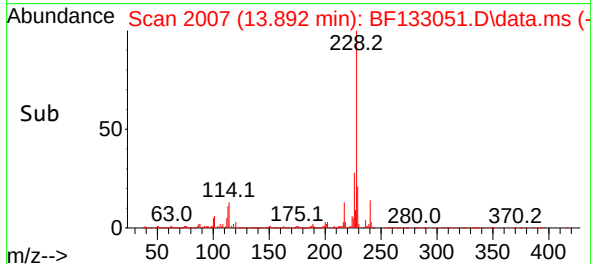
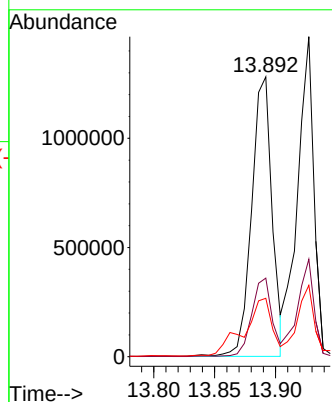
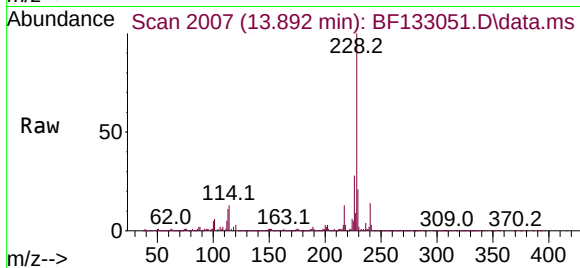
229 20.9 16.0 24.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#83

Chrysene

Concen: 47.249 ng

RT: 13.927 min Scan# 2013

Delta R.T. 0.000 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

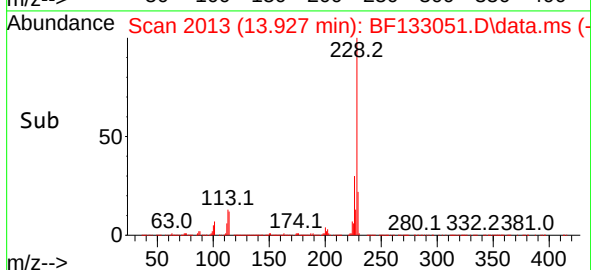
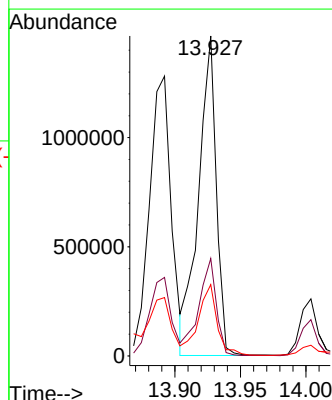
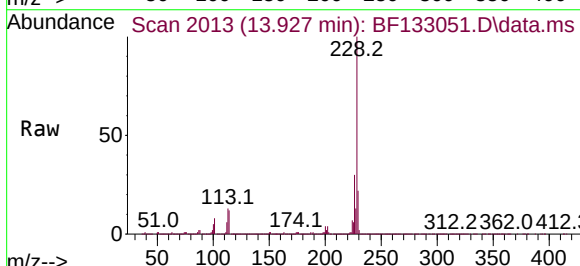
Tgt Ion:228 Resp: 1383902

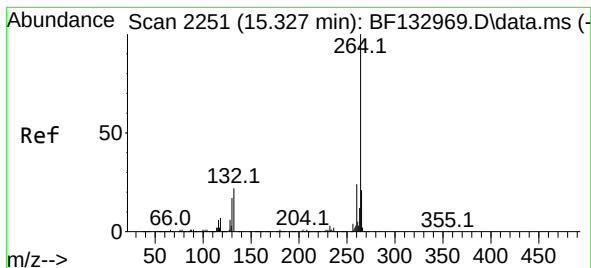
Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

229 22.3 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.321 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

Instrument :

BNA_F

ClientSampleId :

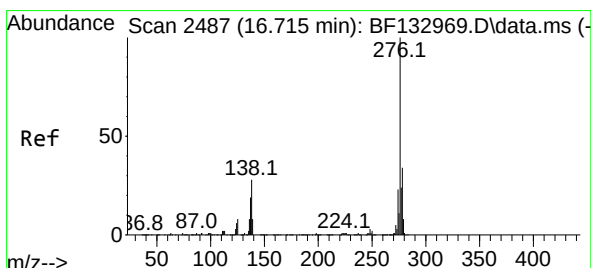
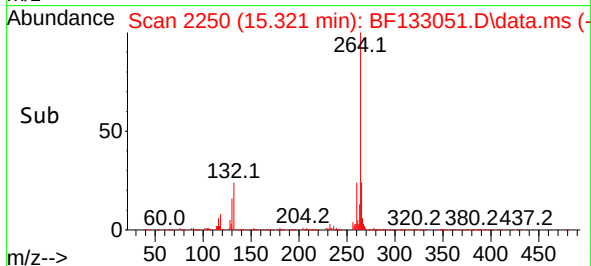
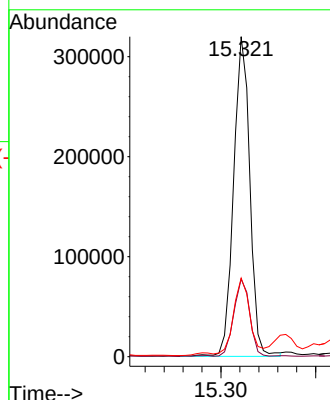
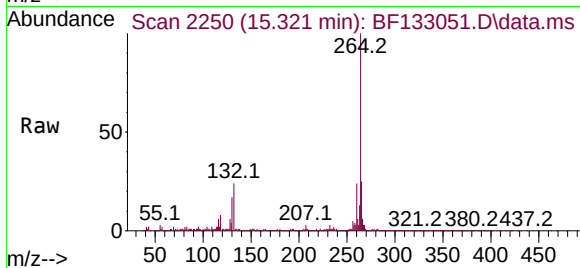
SB-24-5-7-20230411

Tgt Ion:264 Resp: 380230
 Ion Ratio Lower Upper
 264 100
 260 24.2 18.8 28.2
 265 24.5 17.0 25.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 24.085 ng

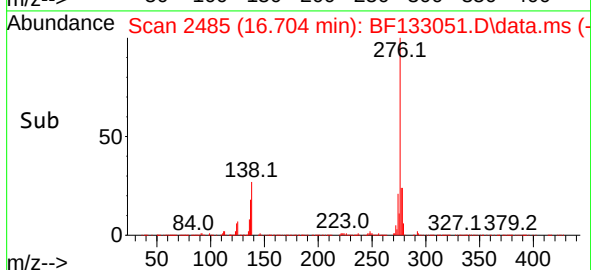
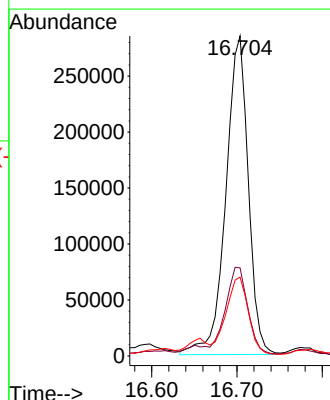
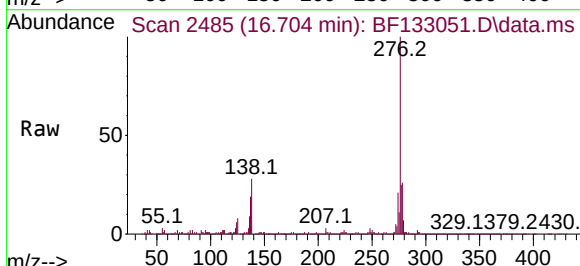
RT: 16.704 min Scan# 2485

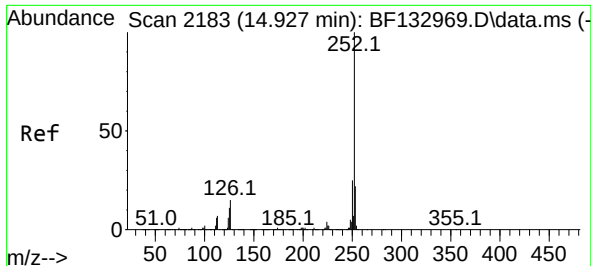
Delta R.T. 0.000 min

Lab File: BF133051.D

Acq: 26 Apr 2023 03:37

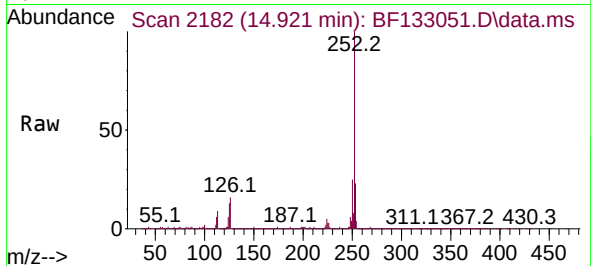
Tgt Ion:276 Resp: 520916
 Ion Ratio Lower Upper
 276 100
 138 27.2 25.5 38.3
 277 24.2 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 61.451 ng m
RT: 14.921 min Scan# 2183
Delta R.T. 0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

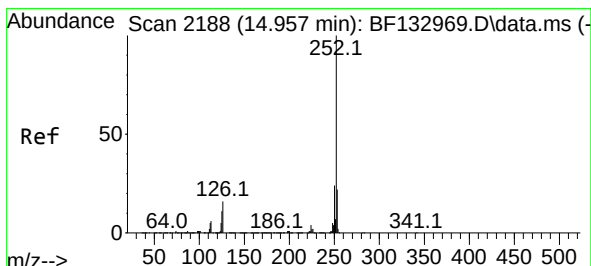
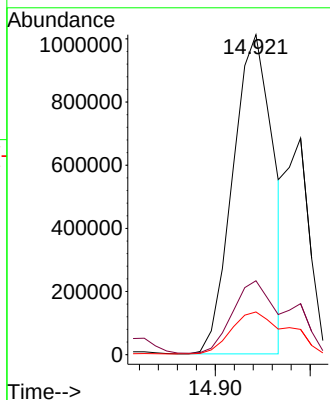
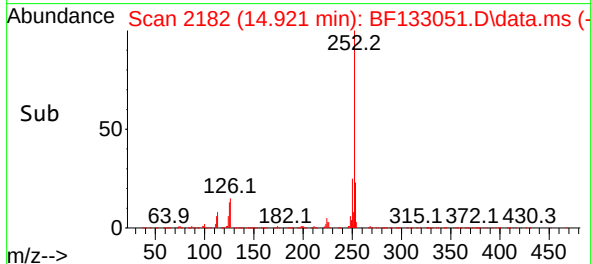
Instrument :
BNA_F
ClientSampleId :
SB-24-5-7-20230411



Tgt Ion:252 Resp: 1486518
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 13.4 8.9 13.3

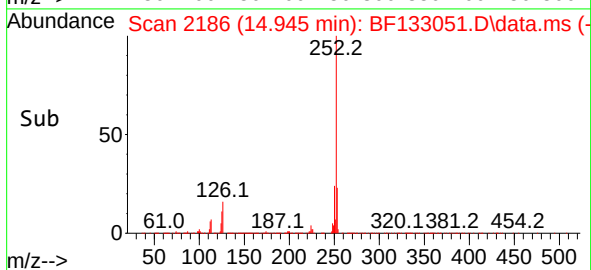
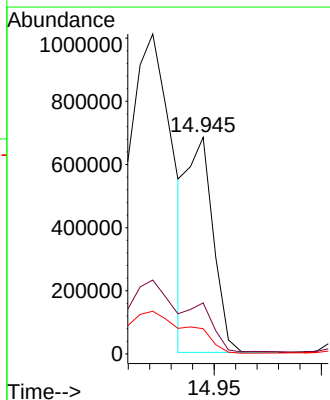
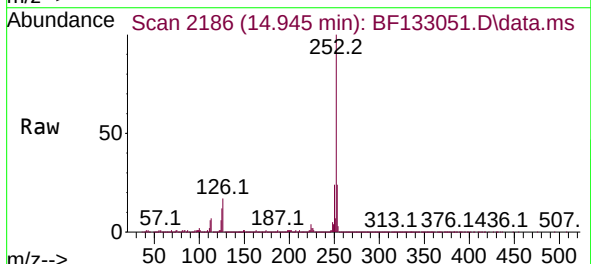
Manual Integrations
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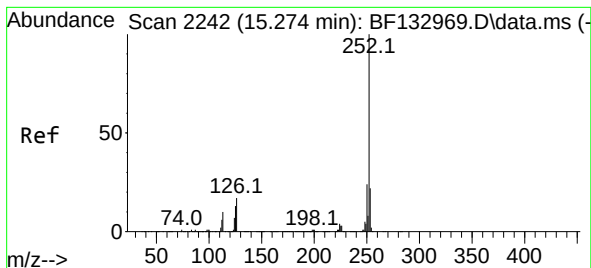
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#89
Benzo(k)fluoranthene
Concen: 23.758 ng m
RT: 14.945 min Scan# 2186
Delta R.T. 0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

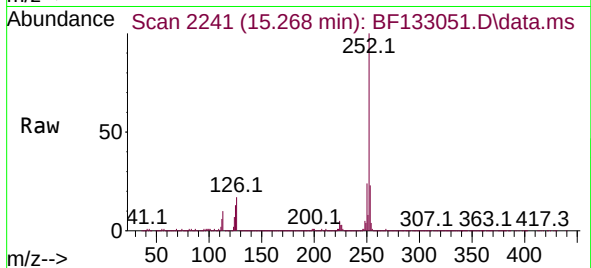
Tgt Ion:252 Resp: 569708
Ion Ratio Lower Upper
252 100
253 23.6 17.7 26.5
125 11.7 9.0 13.4





#90
Benzo(a)pyrene
Concen: 46.176 ng
RT: 15.268 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

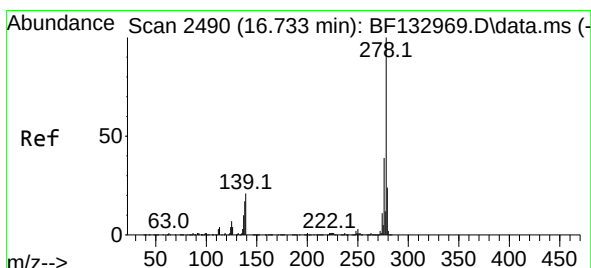
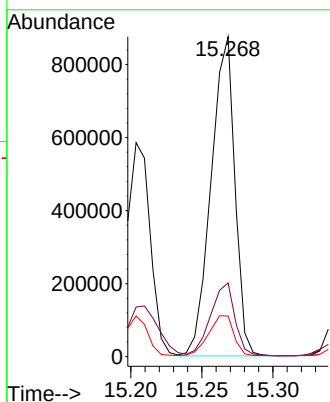
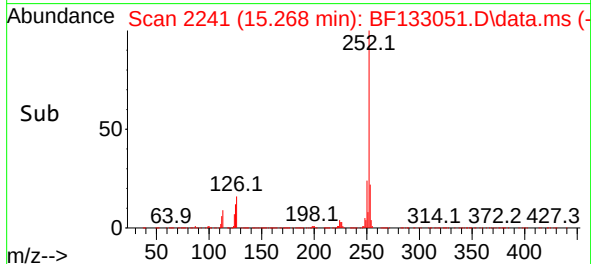
Instrument :
BNA_F
ClientSampleId :
SB-24-5-7-20230411



Tgt Ion:252 Resp: 101670
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 12.7 10.5 15.7

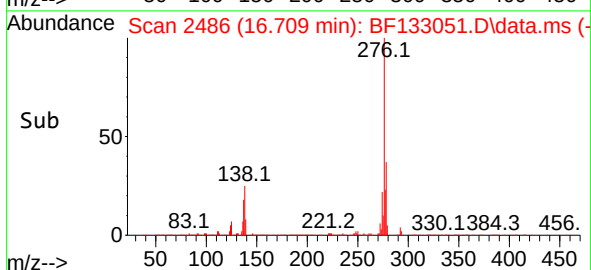
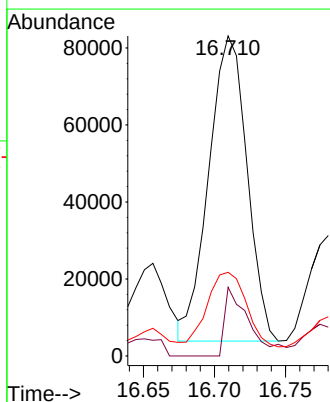
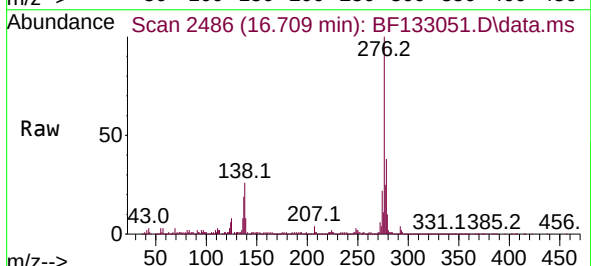
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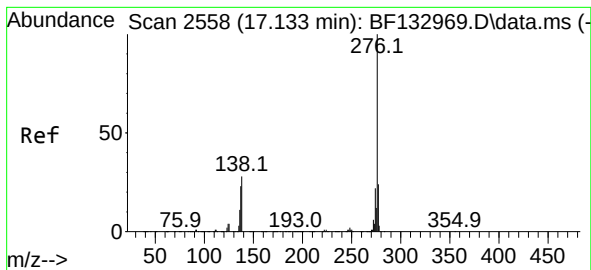
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#91
Dibenzo(a,h)anthracene
Concen: 8.211 ng
RT: 16.709 min Scan# 2486
Delta R.T. -0.012 min
Lab File: BF133051.D
Acq: 26 Apr 2023 03:37

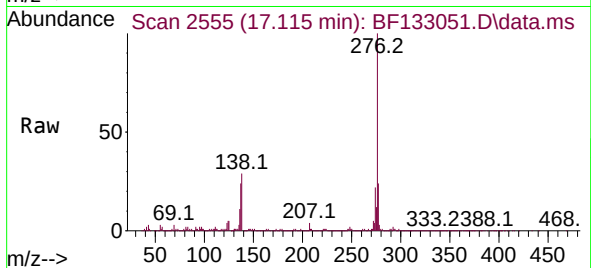
Tgt Ion:278 Resp: 148126
Ion Ratio Lower Upper
278 100
139 21.5 16.6 24.8
279 26.2 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 25.264 ng
 RT: 17.115 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BF133051.D
 Acq: 26 Apr 2023 03:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-24-5-7-20230411



Tgt Ion:276 Resp: 449933
 Ion Ratio Lower Upper
 276 100
 277 24.1 19.4 29.0
 138 28.9 22.7 34.1

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

