

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050223\
 Data File : BF133198.D
 Acq On : 02 May 2023 19:54
 Operator : CG\JU
 Sample : 02572-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR-251671

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/03/2023
 Supervised By : Jagrut Upadhyay 05/03/2023

Quant Time: May 03 05:55:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 04:52:44 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.728	152	228479	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	878554	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	400448	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	596603	20.000	ng	0.00
76) Chrysene-d12	13.892	240	368800	20.000	ng	0.00
86) Perylene-d12	15.315	264	319837	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	636063	42.054	ng	0.00
7) Phenol-d6	6.369	99	761549	40.566	ng	0.00
23) Nitrobenzene-d5	7.292	82	437603	26.886	ng	0.00
42) 2,4,6-Tribromophenol	10.551	330	135806	33.722	ng	-0.01
45) 2-Fluorobiphenyl	9.086	172	822050	34.344	ng	-0.01
79) Terphenyl-d14	12.833	244	658225	30.781	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.033	128	426086	9.700	ng	99
37) 2-Methylnaphthalene	8.727	142	80158	2.669	ng	99
49) Acenaphthylene	9.627	152	98687	2.657	ng	99
52) Acenaphthene	9.798	154	208159	8.369	ng	99
55) Dibenzofuran	9.969	168	264787	7.804	ng	99
58) Fluorene	10.316	166	299288	12.040	ng	99
70) Pentachlorophenol	11.063	266	41139	8.712	ng	96
71) Phenanthrene	11.280	178	2335128	72.823	ng	99
72) Anthracene	11.327	178	882669	26.898	ng	100
73) Carbazole	11.480	167	432364	14.797	ng	99
75) Fluoranthene	12.474	202	3197435	99.356	ng	97
78) Pyrene	12.698	202	3014476	95.351	ng	97
81) Benzo(a)anthracene	13.880	228	1246455	49.148	ng	97
83) Chrysene	13.921	228	1379979	54.426	ng	97
87) Indeno(1,2,3-cd)pyrene	16.703	276	386657	21.253	ng	93
88) Benzo(b)fluoranthene	14.915	252	1456435m	71.577	ng	
89) Benzo(k)fluoranthene	14.939	252	345752m	17.142	ng	
90) Benzo(a)pyrene	15.262	252	673682	36.375	ng	98
91) Dibenzo(a,h)anthracene	16.709	278	95226	6.276	ng	# 88
92) Benzo(g,h,i)perylene	17.121	276	344860	23.021	ng	98

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

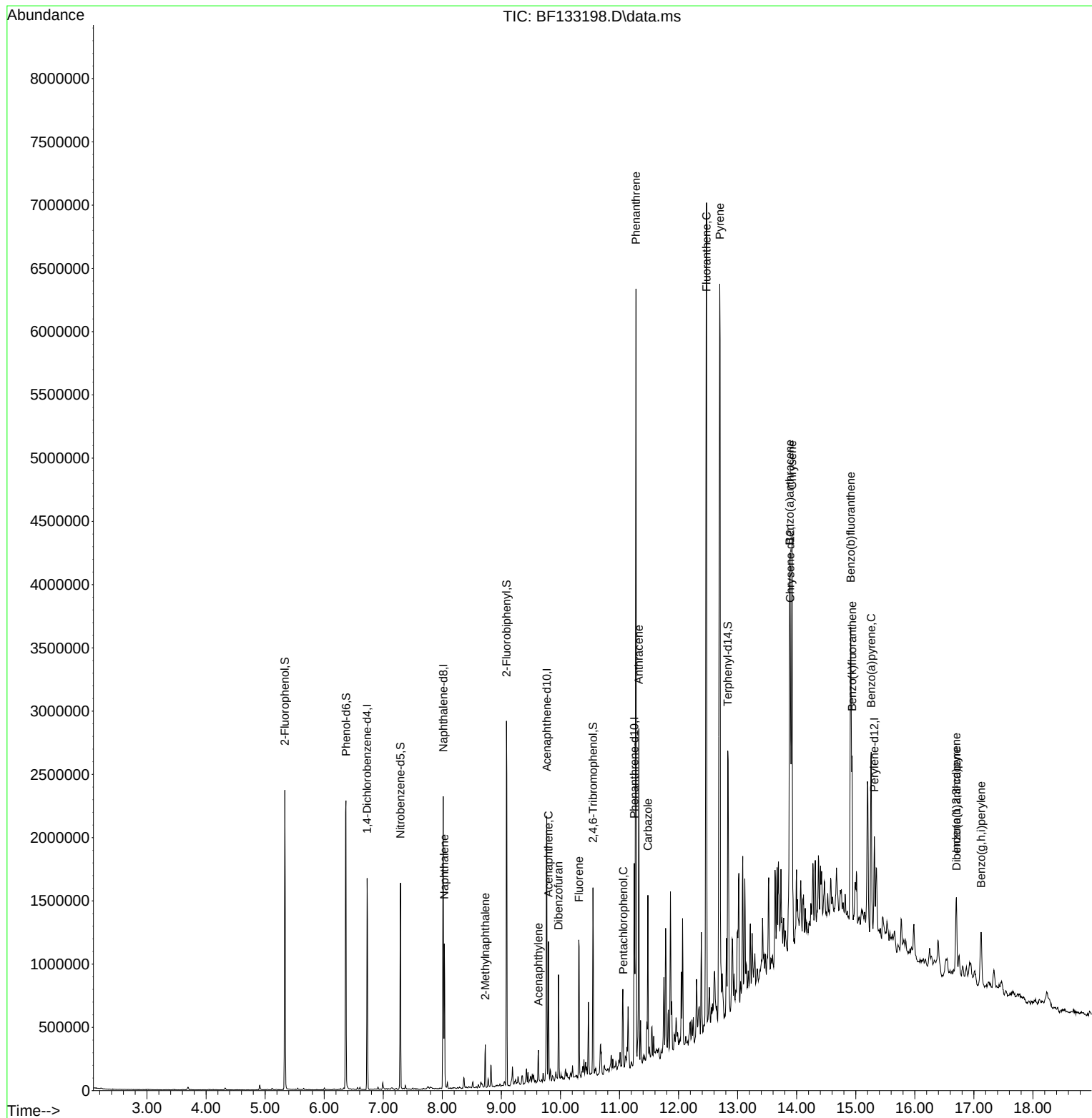
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050223\
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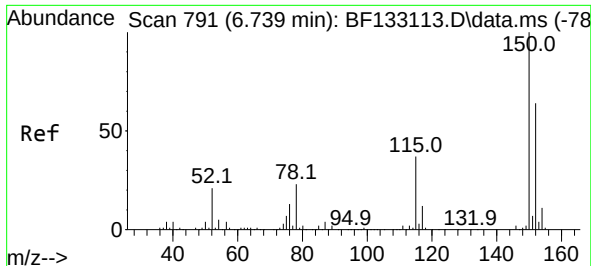
Instrument :
BNA_F
ClientSampleId :
RBR-251671

Quant Time: May 03 05:55:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 04:52:44 2023
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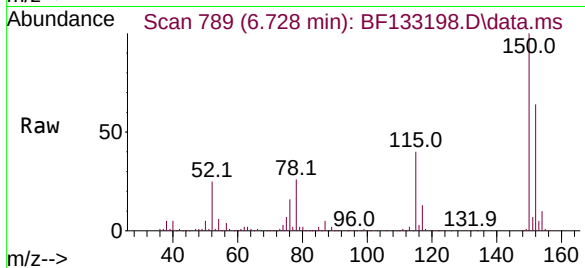
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.728 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

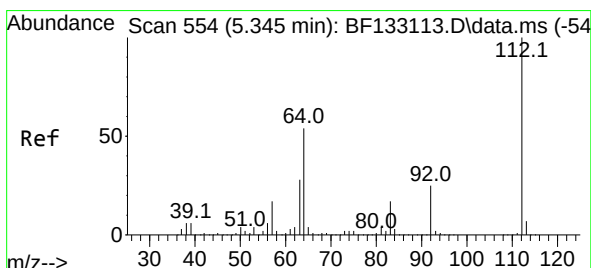
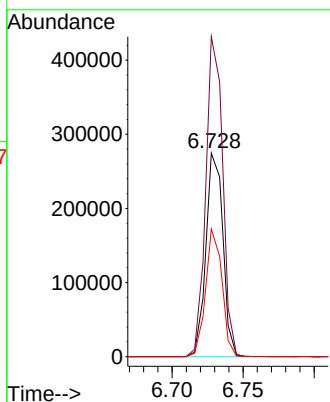
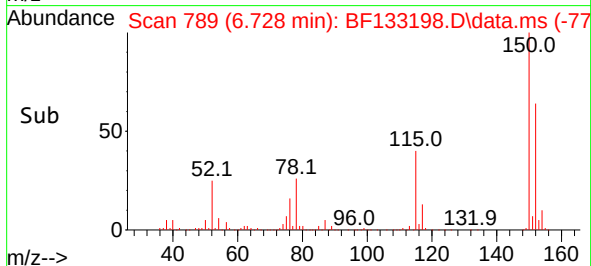


Tgt Ion:152 Resp: 228479
Ion Ratio Lower Upper
152 100
150 157.2 124.8 187.2
115 62.7 49.9 74.9

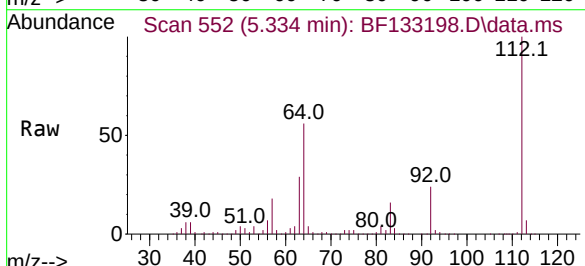
Manual Integrations

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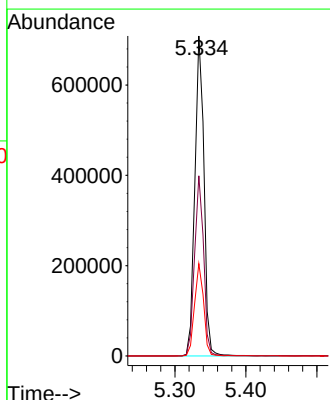
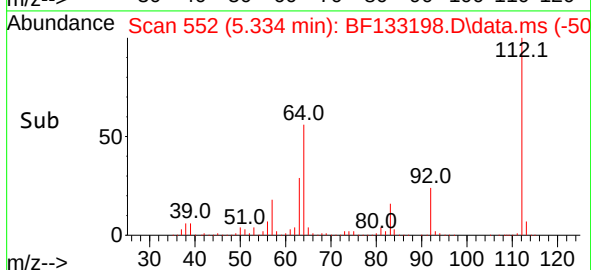
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023

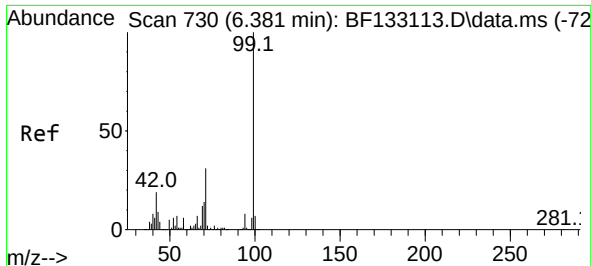


#5
2-Fluorophenol
Concen: 42.054 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54



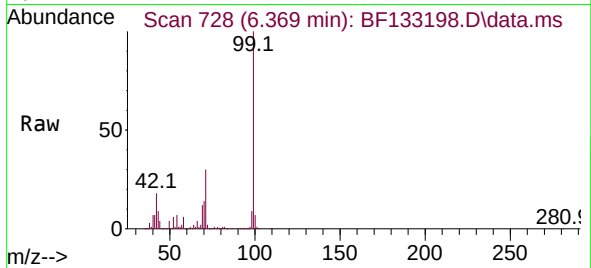
Tgt Ion:112 Resp: 636063
Ion Ratio Lower Upper
112 100
64 56.3 46.8 70.2
63 28.9 23.8 35.8





#7
Phenol-d6
Concen: 40.566 ng
RT: 6.369 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

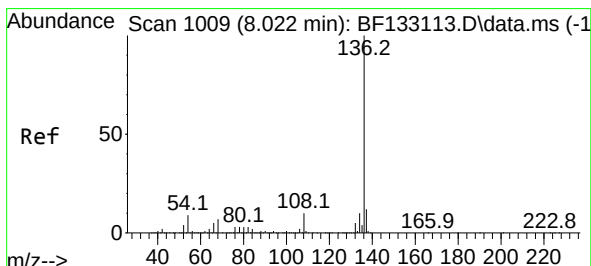
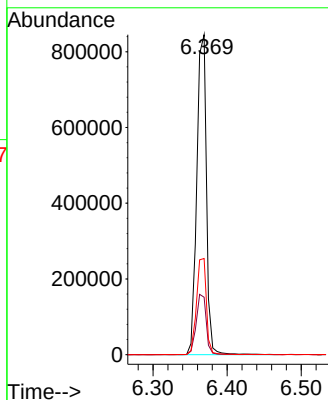
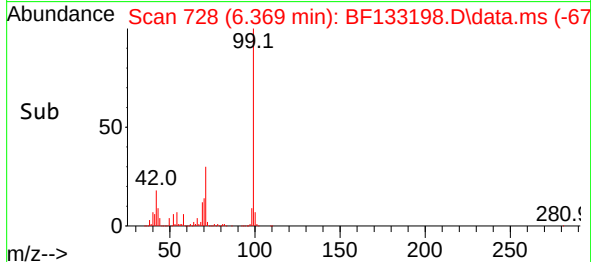
Instrument :
BNA_F
ClientSampleId :
RBR-251671



Tgt Ion: 99 Resp: 761549
Ion Ratio Lower Upper
99 100
42 17.9 16.3 24.5
71 30.0 25.6 38.4

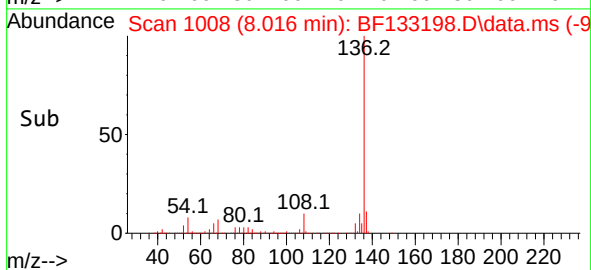
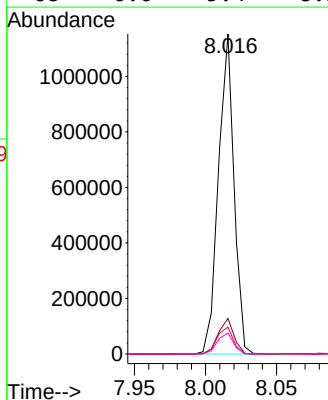
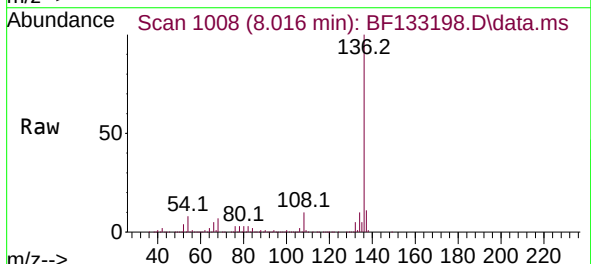
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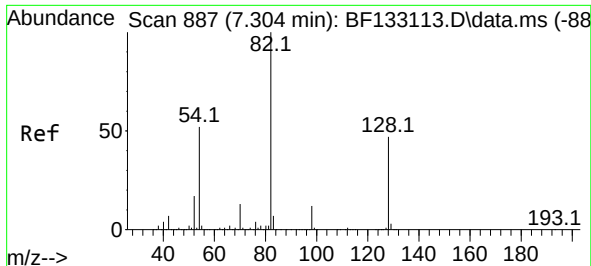
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Tgt Ion:136 Resp: 878554
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.4 7.0 10.4
68 6.6 5.4 8.2





#23

Nitrobenzene-d5

Concen: 26.886 ng

RT: 7.292 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

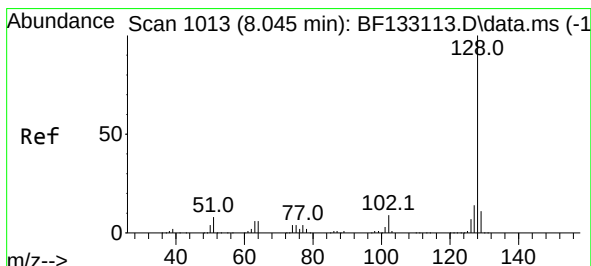
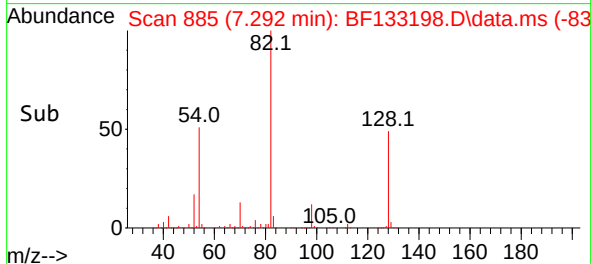
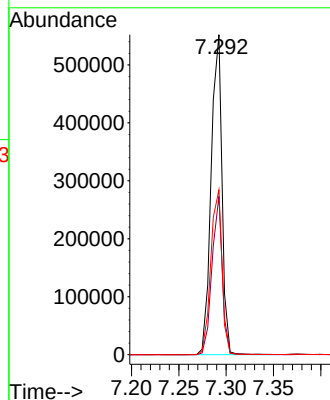
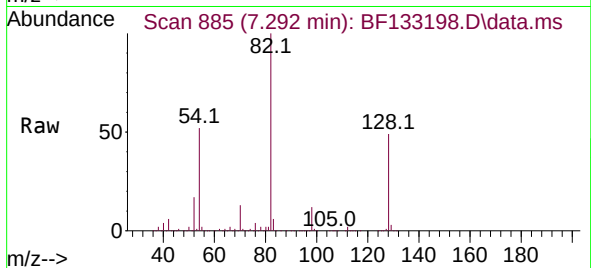
Tgt Ion: 82 Resp: 43760

Ion	Ratio	Lower	Upper
82	100		
128	49.5	37.7	56.5
54	51.5	43.0	64.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/03/2023



#31

Naphthalene

Concen: 9.700 ng

RT: 8.033 min Scan# 1011

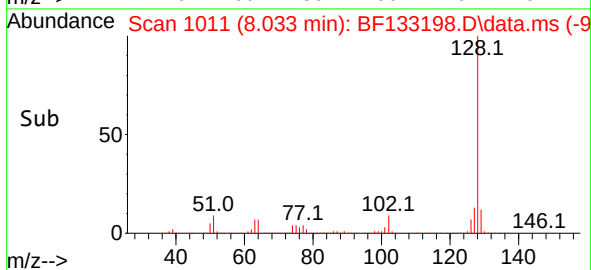
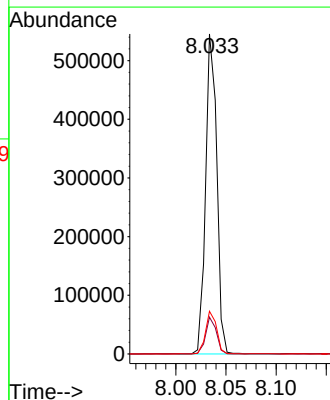
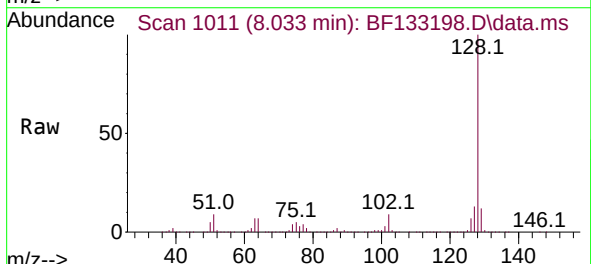
Delta R.T. -0.006 min

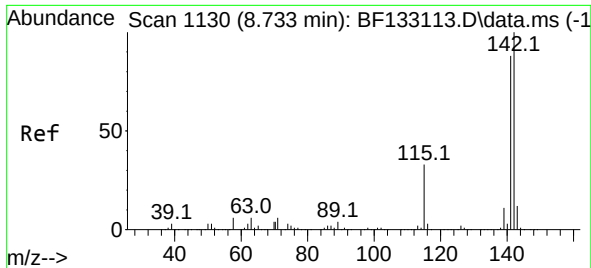
Lab File: BF133198.D

Acq: 02 May 2023 19:54

Tgt Ion:128 Resp: 426086

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.3	10.7	16.1





#37

2-Methylnaphthalene

Concen: 2.669 ng

RT: 8.727 min Scan# 1129

Delta R.T. -0.006 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

Tgt Ion:142 Resp: 80158

Ion Ratio Lower Upper

142 100

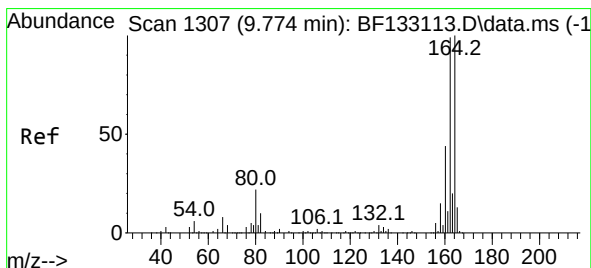
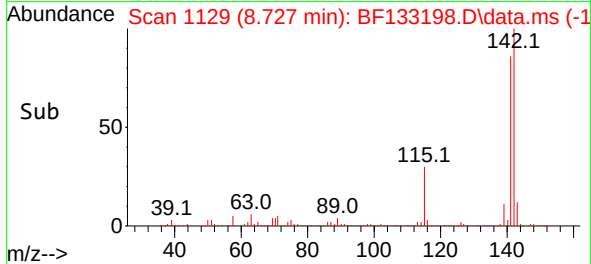
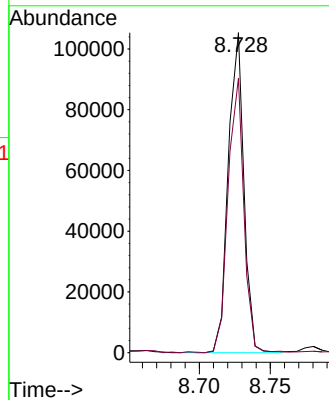
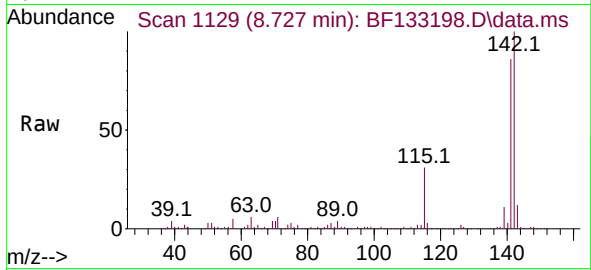
141 85.8 69.4 104.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/03/2023

Supervised By :Jagrut Upadhyay 05/03/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.769 min Scan# 1306

Delta R.T. 0.000 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

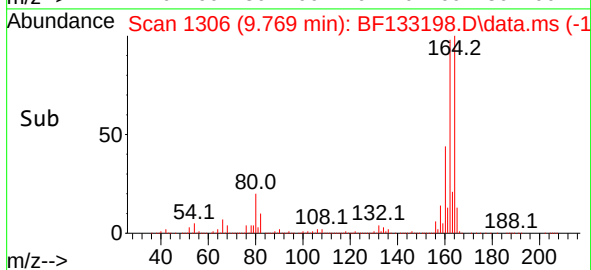
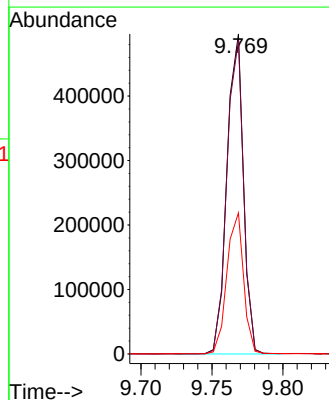
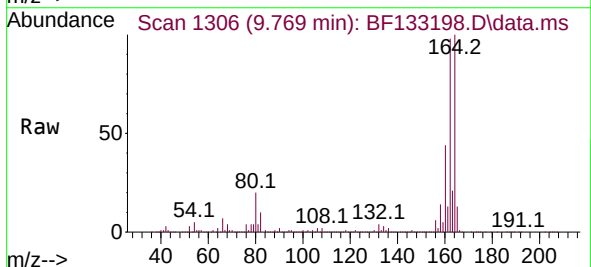
Tgt Ion:164 Resp: 400448

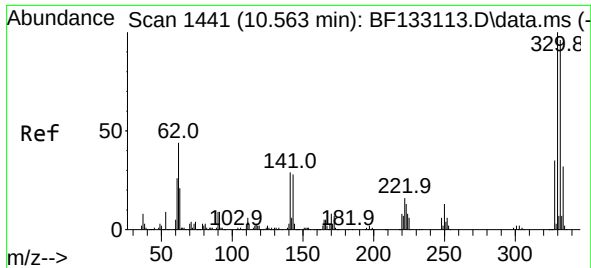
Ion Ratio Lower Upper

164 100

162 98.1 78.7 118.1

160 44.1 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 33.722 ng
RT: 10.551 min Scan# 1441
Delta R.T. -0.012 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

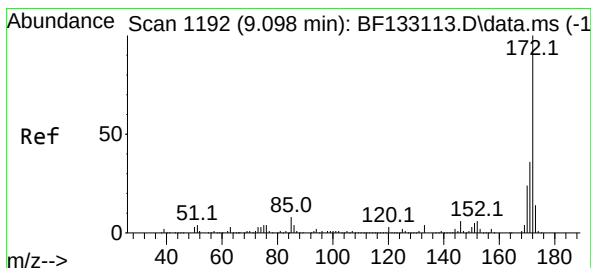
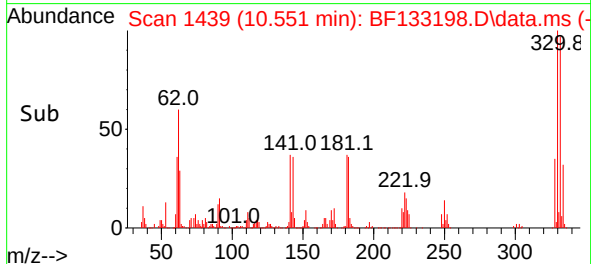
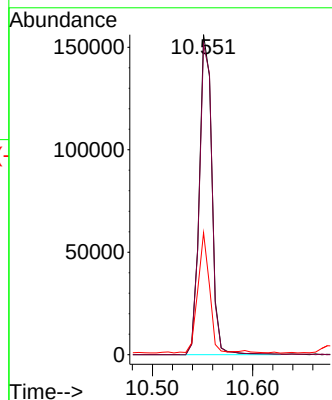
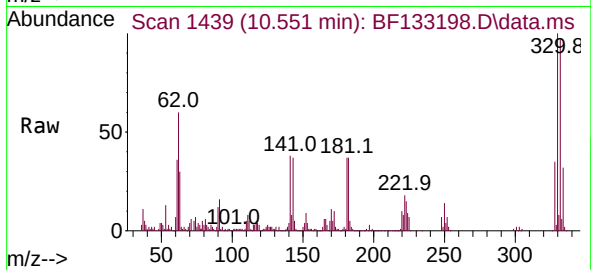
RBR-251671

Tgt Ion: 330 Resp: 135800
Ion Ratio Lower Upper
330 100
332 98.6 77.1 115.7
141 34.6 25.8 38.8

Manual Integrations

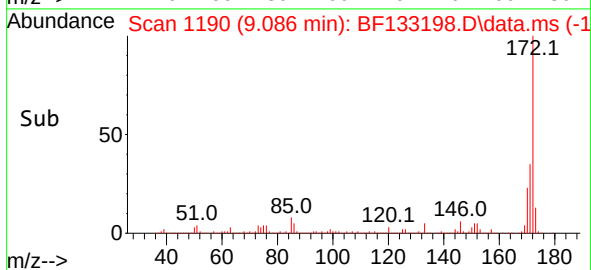
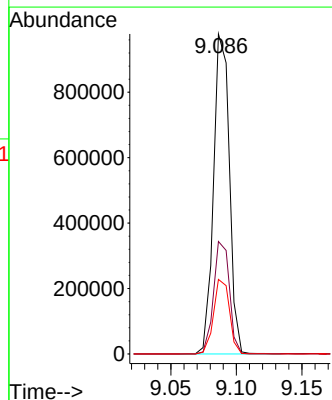
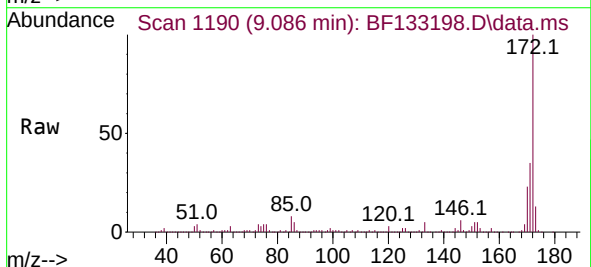
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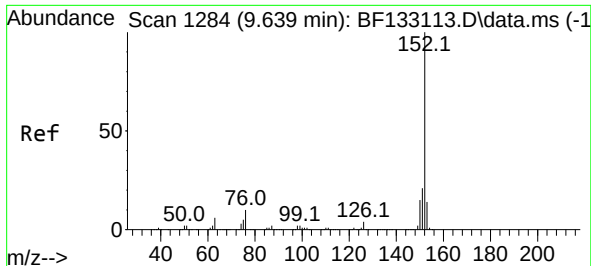
Reviewed By : Christian Giraldo 05/03/2023
Supervised By : Jagrut Upadhyay 05/03/2023



#45
2-Fluorobiphenyl
Concen: 34.344 ng
RT: 9.086 min Scan# 1190
Delta R.T. -0.012 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Tgt Ion: 172 Resp: 822050
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.3 19.4 29.2





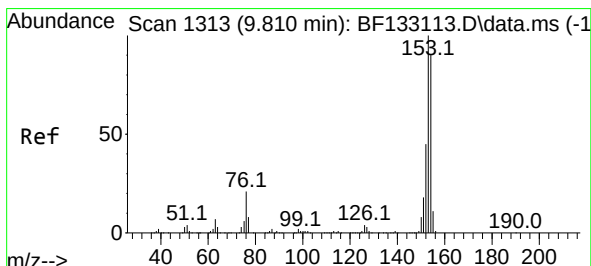
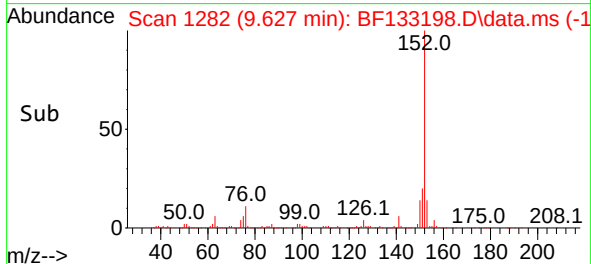
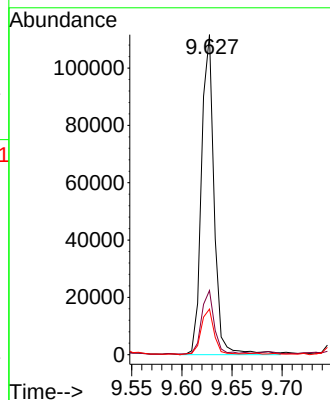
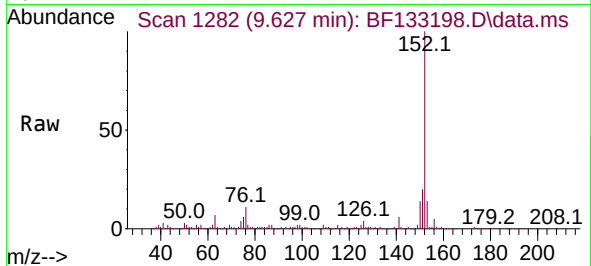
#49
Acenaphthylene
Concen: 2.657 ng
RT: 9.627 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :
BNA_F
ClientSampleId :
RBR-251671

Tgt Ion:152 Resp: 9868
Ion Ratio Lower Upper
152 100
151 20.1 16.6 24.8
153 14.3 11.5 17.3

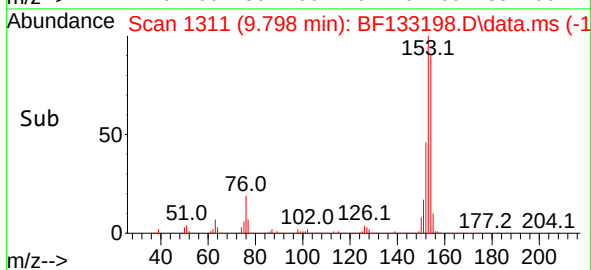
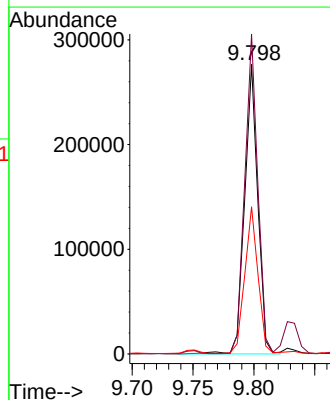
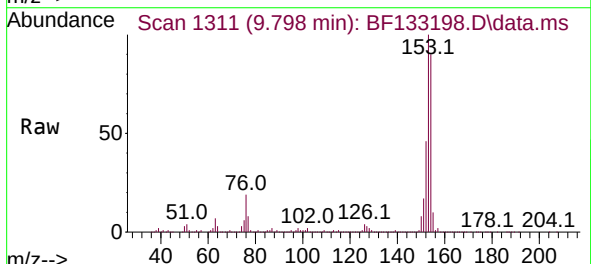
Manual Integrations
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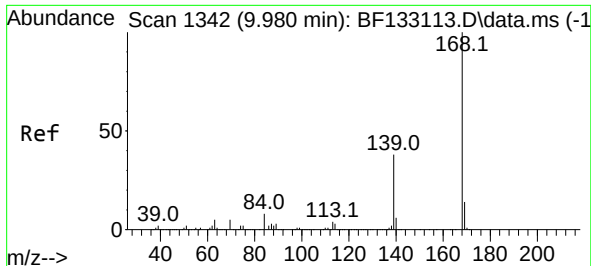
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#52
Acenaphthene
Concen: 8.369 ng
RT: 9.798 min Scan# 1311
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Tgt Ion:154 Resp: 208159
Ion Ratio Lower Upper
154 100
153 110.6 89.0 133.6
152 50.9 40.4 60.6





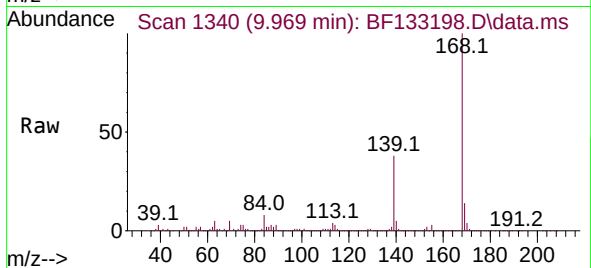
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Dibenzenofuran
Concen: 7.804 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

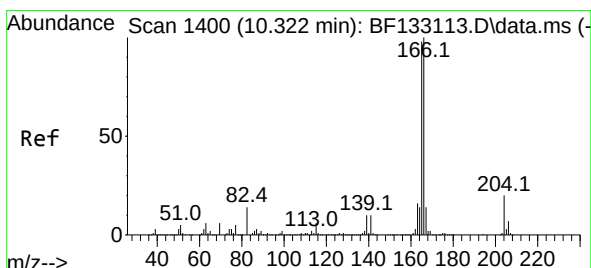
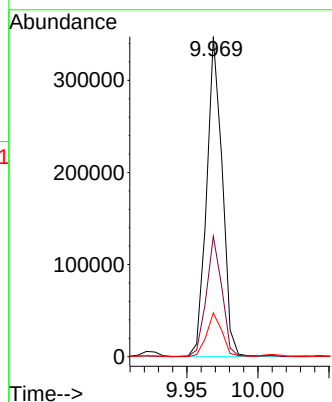
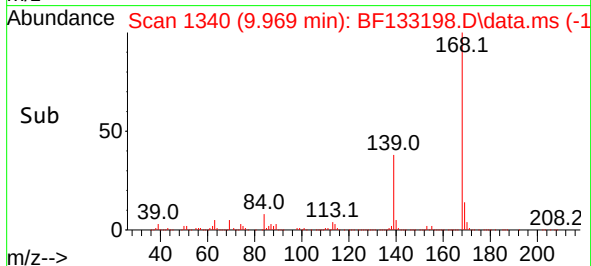


Tgt Ion:168 Resp: 26478
Ion Ratio Lower Upper
168 100
139 37.7 29.8 44.8
169 13.6 10.8 16.2

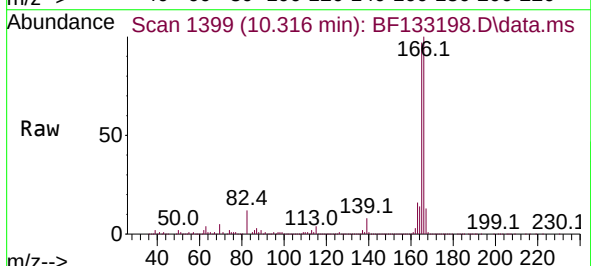
Manual Integrations

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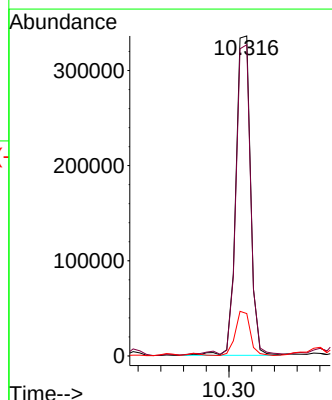
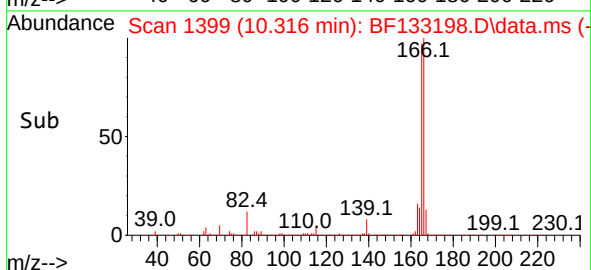
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023

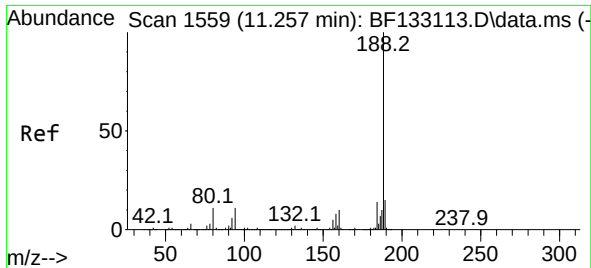


#58
Fluorene
Concen: 12.040 ng
RT: 10.316 min Scan# 1399
Delta R.T. -0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54



Tgt Ion:166 Resp: 299288
Ion Ratio Lower Upper
166 100
165 97.3 78.6 117.8
167 13.3 11.0 16.4





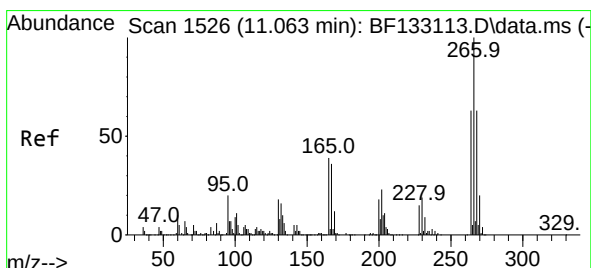
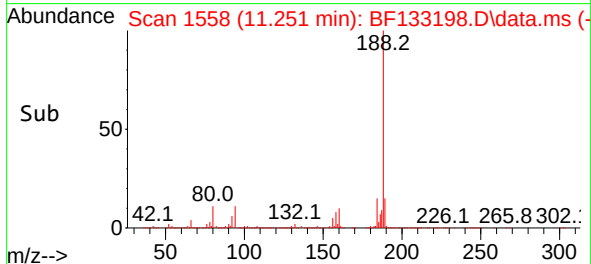
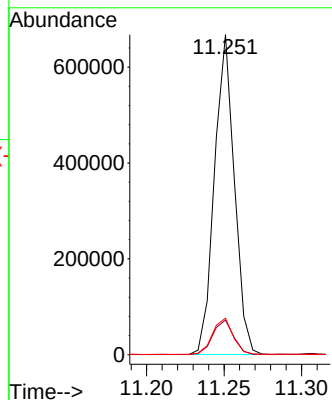
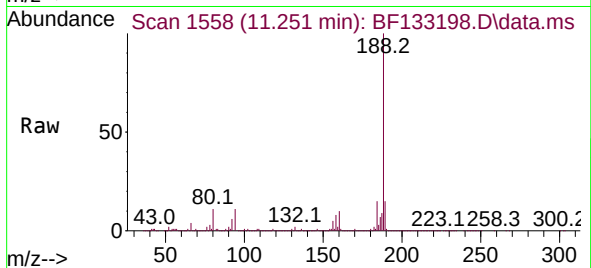
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.251 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :
BNA_F
ClientSampleId :
RBR-251671

Tgt Ion:188 Resp: 59660
Ion Ratio Lower Upper
188 100
94 10.8 9.7 14.5
80 11.4 10.4 15.6

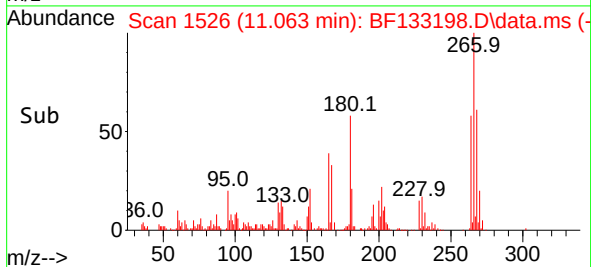
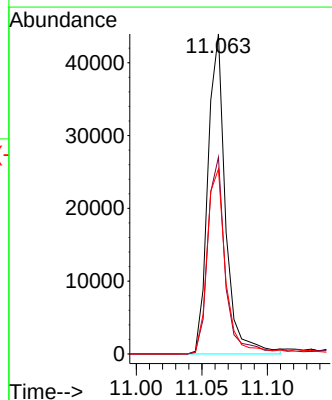
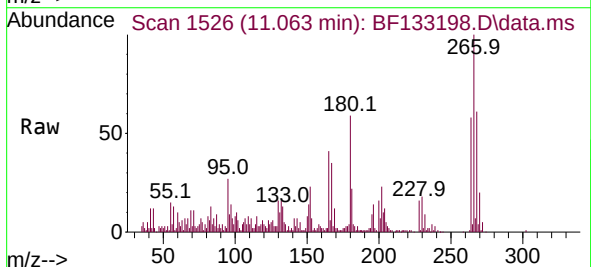
Manual Integrations
APPROVED

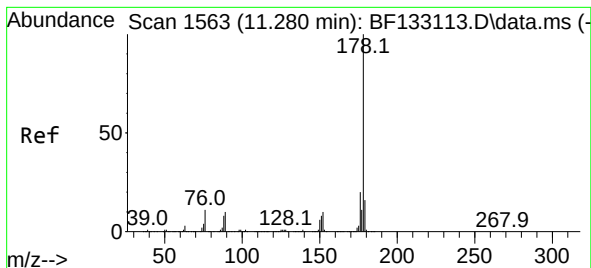
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#70
Pentachlorophenol
Concen: 8.712 ng
RT: 11.063 min Scan# 1526
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Tgt Ion:266 Resp: 41139
Ion Ratio Lower Upper
266 100
268 61.5 48.8 73.2
264 57.8 50.6 76.0





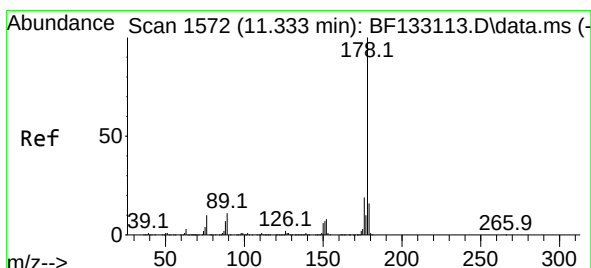
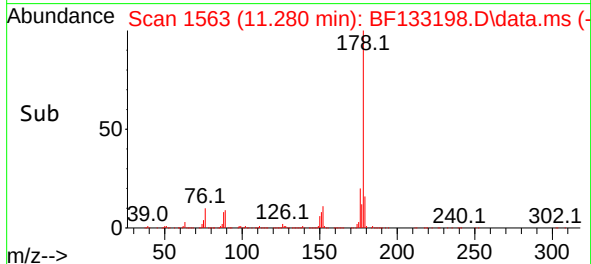
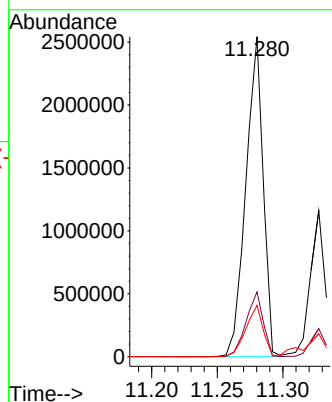
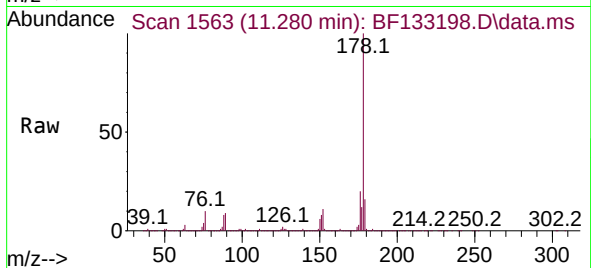
#71
Phenanthrene
Concen: 72.823 ng
RT: 11.280 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :
BNA_F
ClientSampleId :
RBR-251671

Tgt Ion:178 Resp: 2335128
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 16.1 12.5 18.7

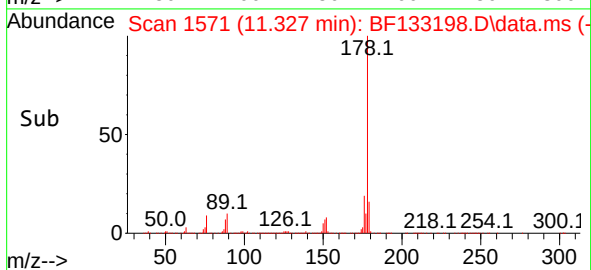
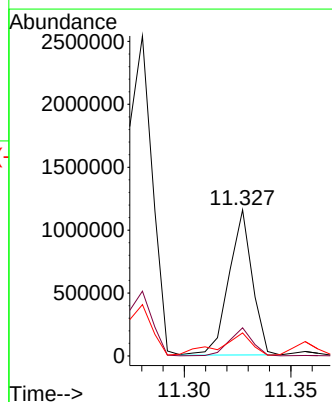
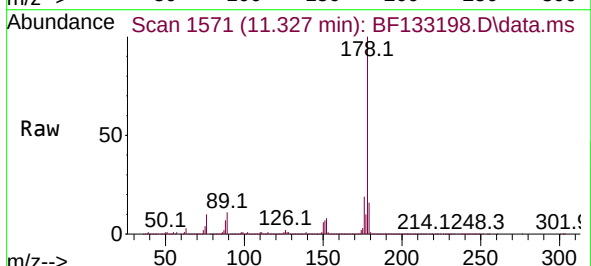
Manual Integrations
APPROVED

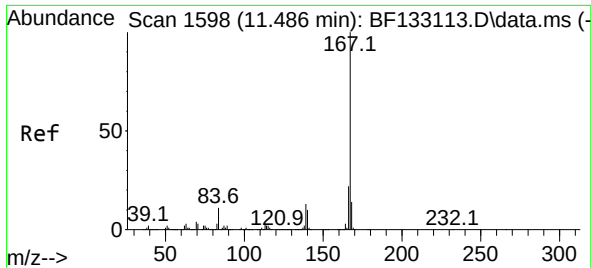
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#72
Anthracene
Concen: 26.898 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

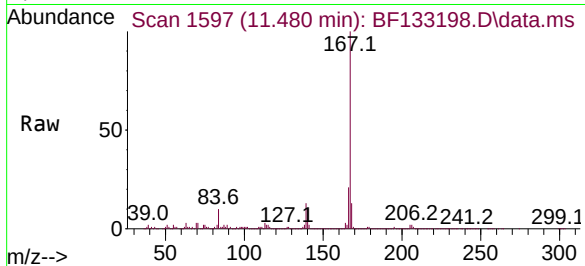
Tgt Ion:178 Resp: 882669
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.8 12.4 18.6





#73
 Carbazole
 Concen: 14.797 ng
 RT: 11.480 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF133198.D
 Acq: 02 May 2023 19:54

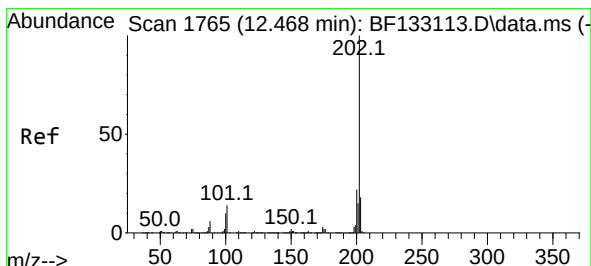
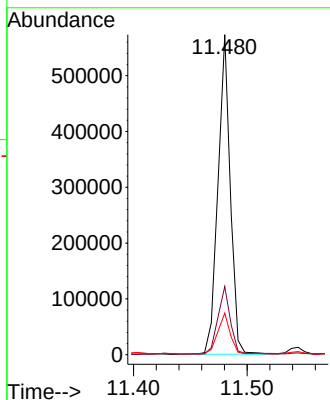
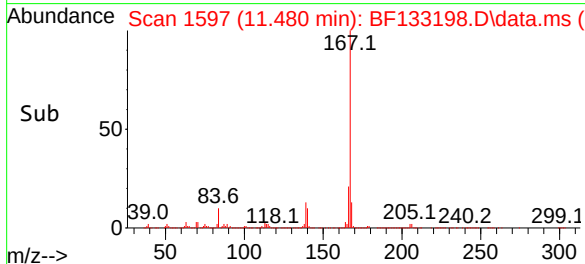
Instrument :
 BNA_F
 ClientSampleId :
 RBR-251671



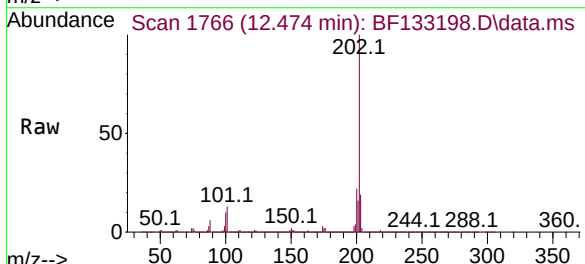
Tgt Ion:167 Resp: 432364
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.4 26.0
 139 13.0 10.6 16.0

Manual Integrations
 APPROVED

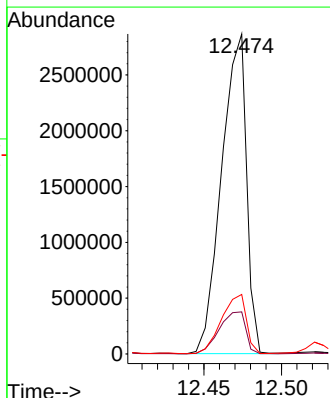
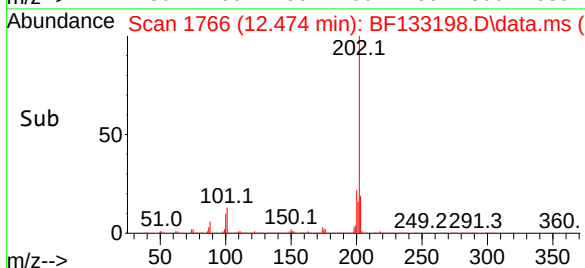
Reviewed By :Christian Giraldo 05/03/2023
 Supervised By :Jagrut Upadhyay 05/03/2023

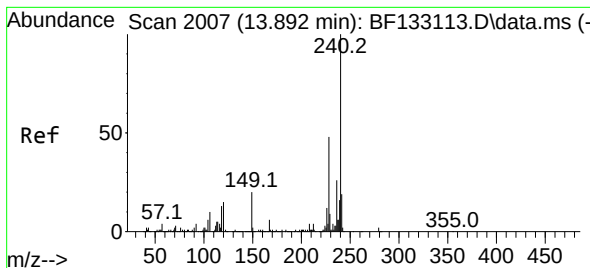


#75
 Fluoranthene
 Concen: 99.356 ng
 RT: 12.474 min Scan# 1766
 Delta R.T. 0.012 min
 Lab File: BF133198.D
 Acq: 02 May 2023 19:54



Tgt Ion:202 Resp: 3197435
 Ion Ratio Lower Upper
 202 100
 101 13.2 0.0 35.3
 203 18.6 0.0 38.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.892 min Scan# 2007
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

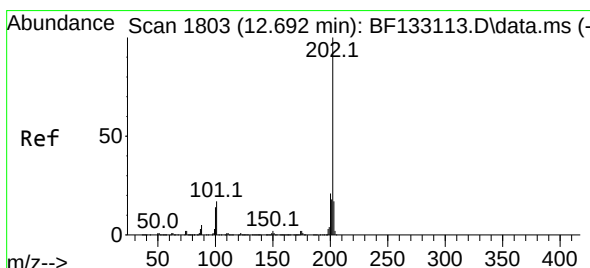
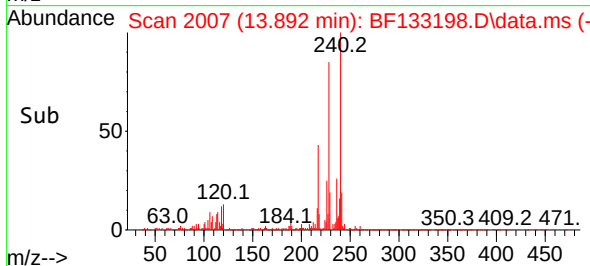
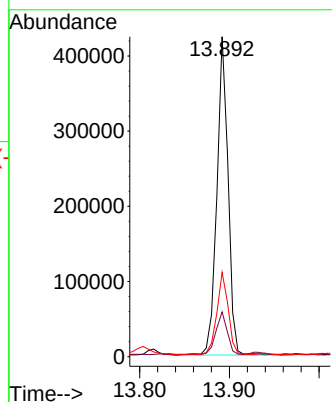
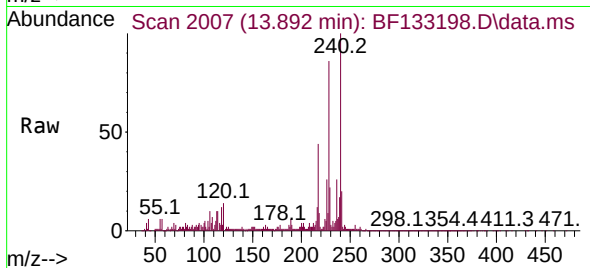
RBR-251671

Tgt Ion:240 Resp: 368800
Ion Ratio Lower Upper
240 100
120 14.0 10.5 15.7
236 26.4 21.5 32.3

Manual Integrations

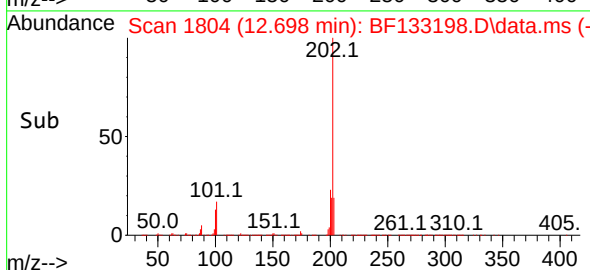
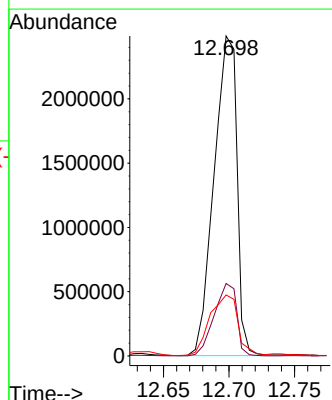
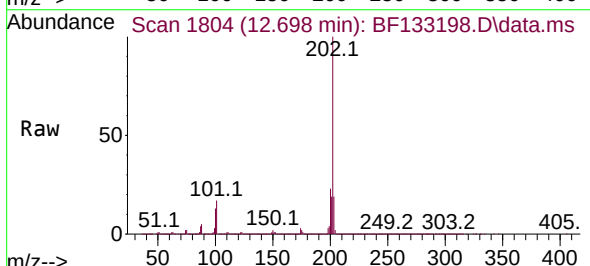
APPROVED

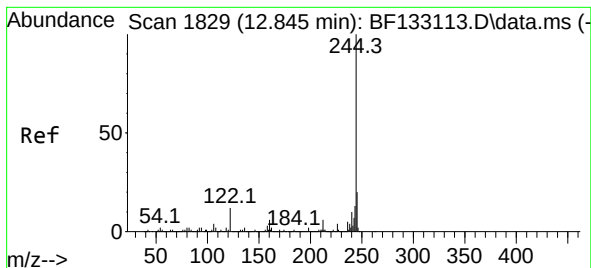
Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#78
Pyrene
Concen: 95.351 ng
RT: 12.698 min Scan# 1804
Delta R.T. 0.006 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

Tgt Ion:202 Resp: 3014476
Ion Ratio Lower Upper
202 100
200 22.6 17.1 25.7
203 19.0 14.1 21.1





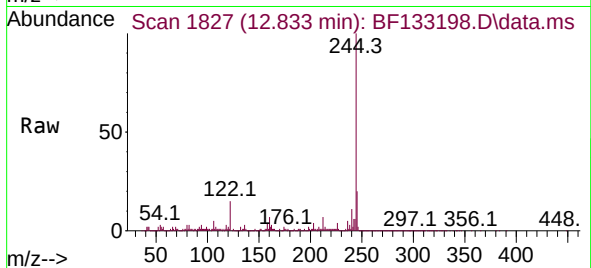
#79
 Terphenyl-d14
 Concen: 30.781 ng
 RT: 12.833 min Scan# 1827
 Delta R.T. -0.006 min
 Lab File: BF133198.D
 Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

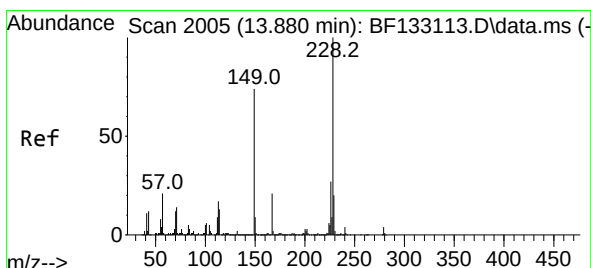
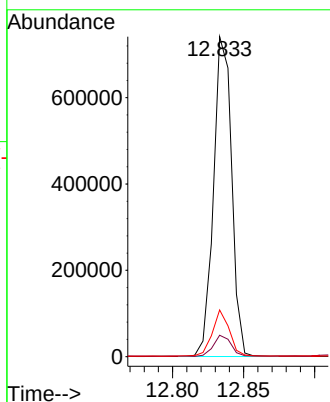
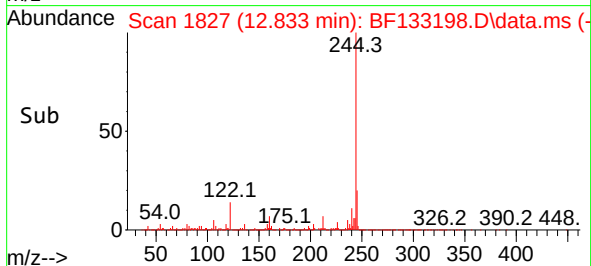


Tgt Ion:244 Resp: 658225
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.1 7.7
 122 14.6 8.6 13.0

Manual Integrations

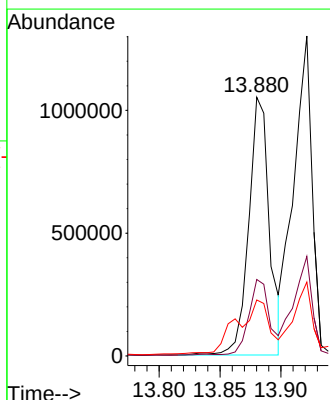
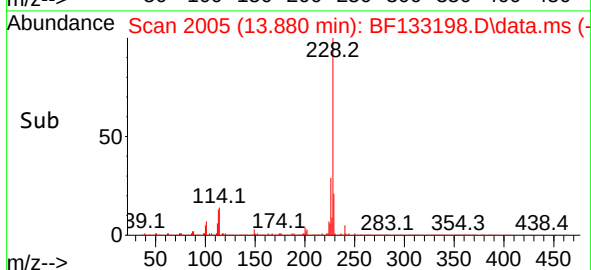
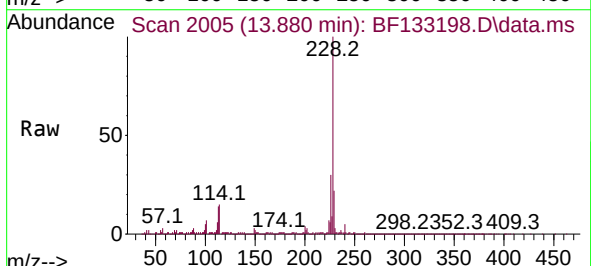
APPROVED

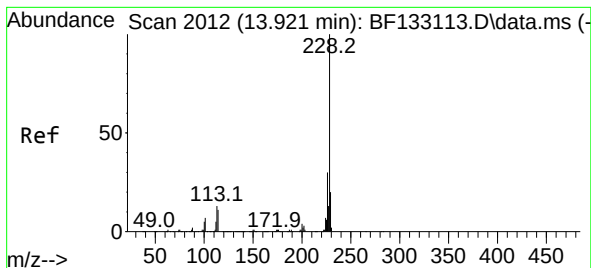
Reviewed By :Christian Giraldo 05/03/2023
 Supervised By :Jagrut Upadhyay 05/03/2023



#81
 Benzo(a)anthracene
 Concen: 49.148 ng
 RT: 13.880 min Scan# 2005
 Delta R.T. 0.000 min
 Lab File: BF133198.D
 Acq: 02 May 2023 19:54

Tgt Ion:228 Resp: 1246455
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.2 33.4
 229 21.6 16.0 24.0





#83

Chrysene

Concen: 54.426 ng

RT: 13.921 min Scan# 2012

Delta R.T. 0.000 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

Tgt Ion:228 Resp: 1379979

Ion Ratio Lower Upper

228 100

226 31.1 24.7 37.1

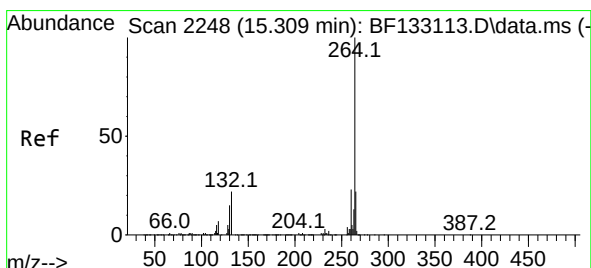
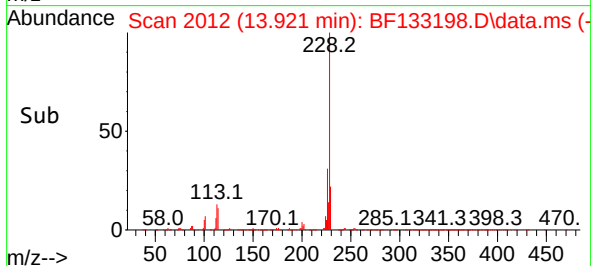
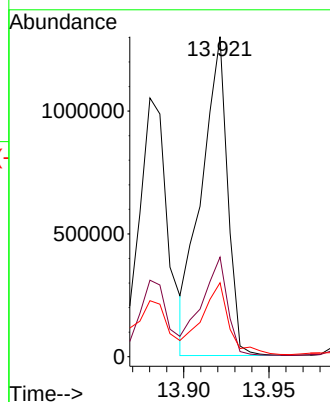
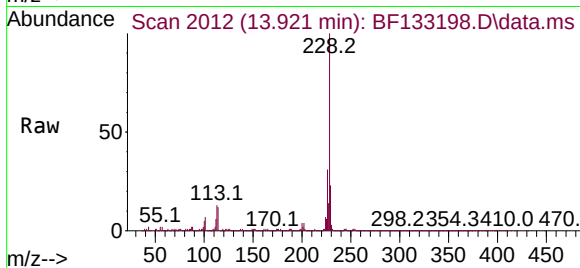
229 23.1 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/03/2023

Supervised By :Jagrut Upadhyay 05/03/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.315 min Scan# 2249

Delta R.T. 0.006 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

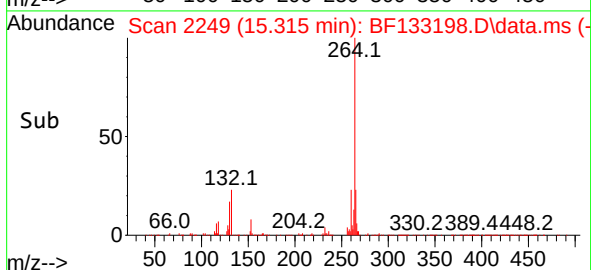
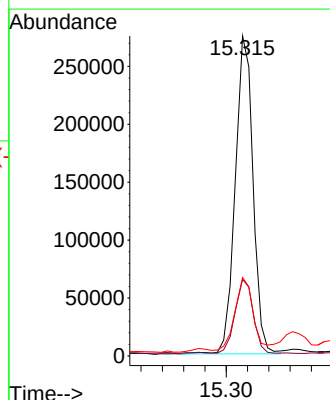
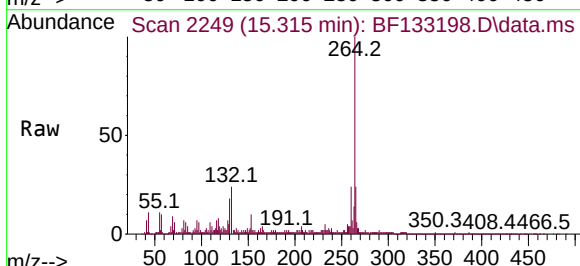
Tgt Ion:264 Resp: 319837

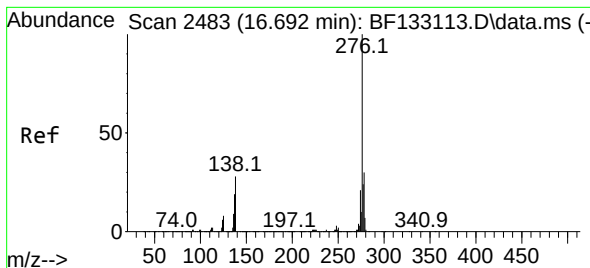
Ion Ratio Lower Upper

264 100

260 24.0 18.8 28.2

265 24.5 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 21.253 ng

RT: 16.703 min Scan# 2483

Delta R.T. 0.012 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

RBR-251671

Tgt Ion:276 Resp: 38665

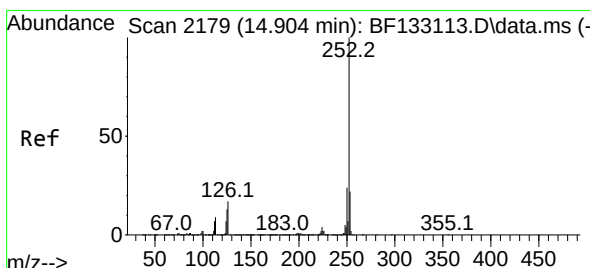
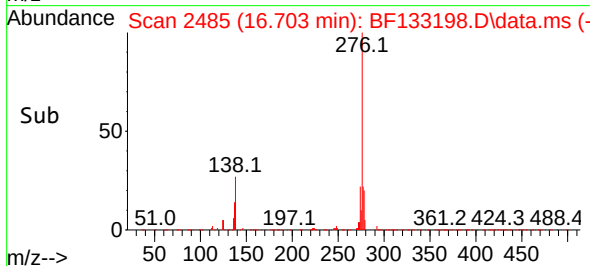
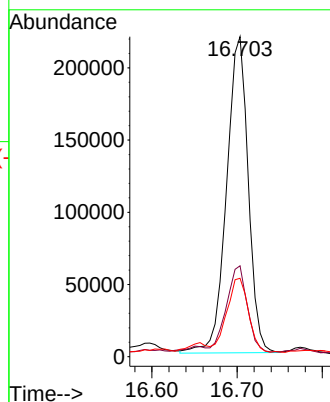
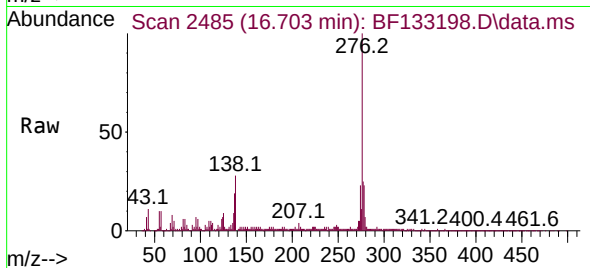
Ion	Ratio	Lower	Upper
276	100		
138	26.8	25.5	38.3
277	23.5	20.4	30.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/03/2023

Supervised By :Jagrut Upadhyay 05/03/2023



#88

Benzo(b)fluoranthene

Concen: 71.577 ng m

RT: 14.915 min Scan# 2181

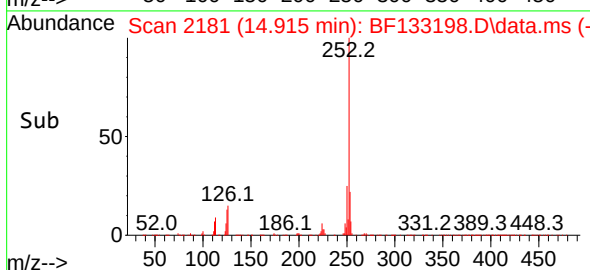
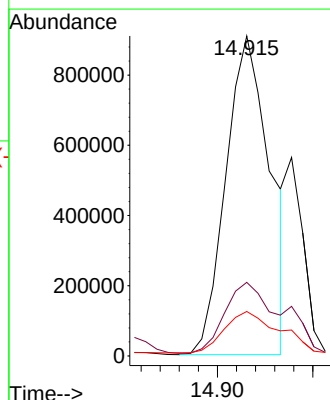
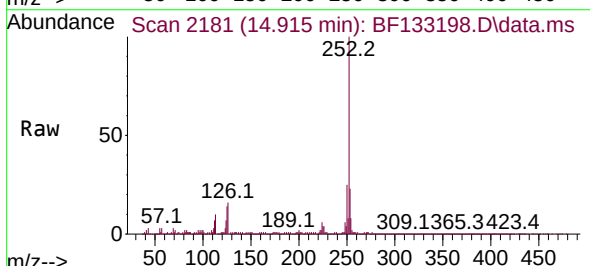
Delta R.T. 0.012 min

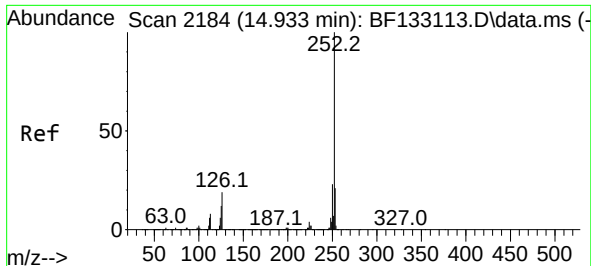
Lab File: BF133198.D

Acq: 02 May 2023 19:54

Tgt Ion:252 Resp: 1456435

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	13.9	8.9	13.3





#89

Benzo(k)fluoranthene

Concen: 17.142 ng m

RT: 14.939 min Scan# 2184

Delta R.T. 0.006 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

Instrument :

BNA_F

ClientSampleId :

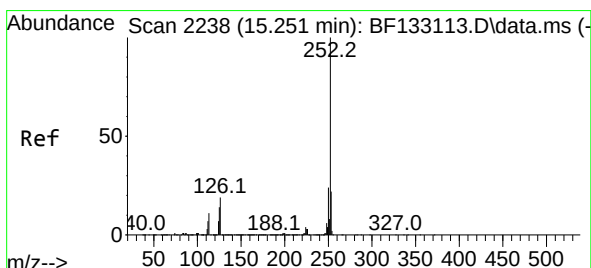
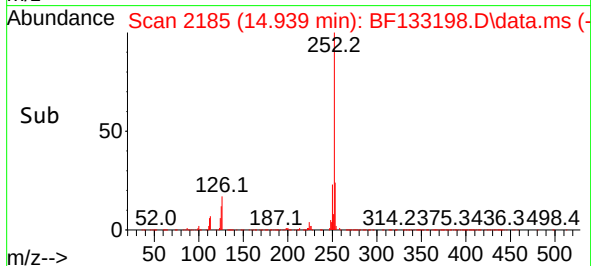
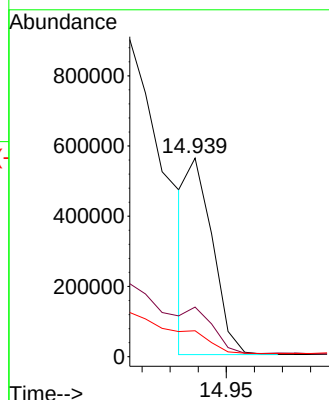
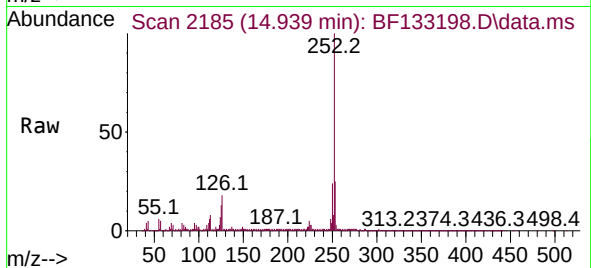
RBR-251671

Tgt Ion:252 Resp: 345752
 Ion Ratio Lower Upper
 252 100
 253 25.0 17.7 26.5
 125 13.0 9.0 13.4

Manual Integrations

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Reviewed By :Christian Giraldo 05/03/2023
 Supervised By :Jagrut Upadhyay 05/03/2023



#90

Benzo(a)pyrene

Concen: 36.375 ng

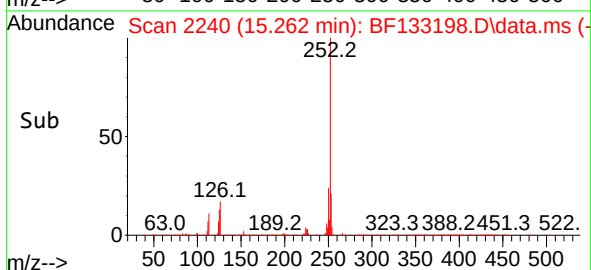
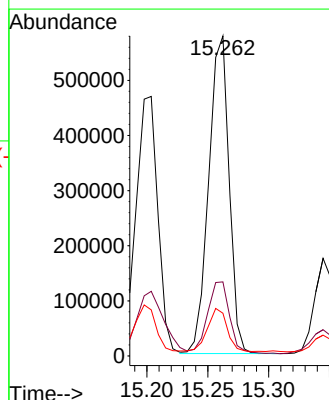
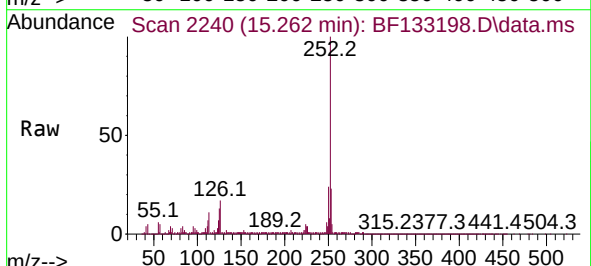
RT: 15.262 min Scan# 2240

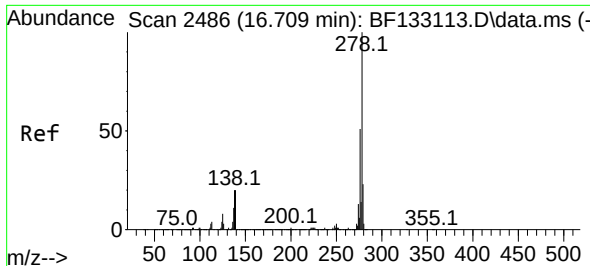
Delta R.T. 0.012 min

Lab File: BF133198.D

Acq: 02 May 2023 19:54

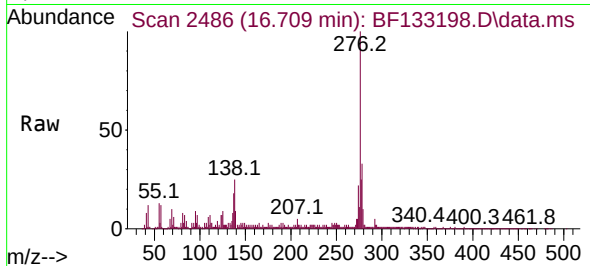
Tgt Ion:252 Resp: 673682
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.7 26.5
 125 13.3 10.5 15.7





#91
Dibenzo(a,h)anthracene
Concen: 6.276 ng
RT: 16.709 min Scan# 2486
Delta R.T. 0.000 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54

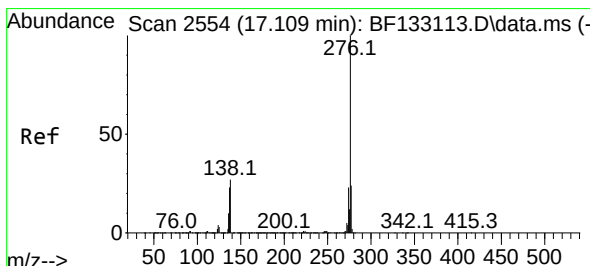
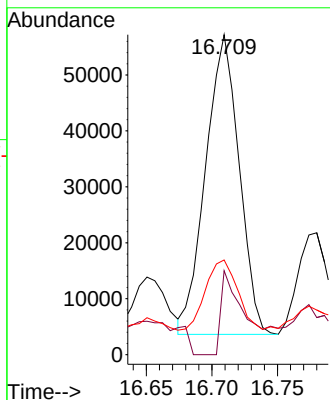
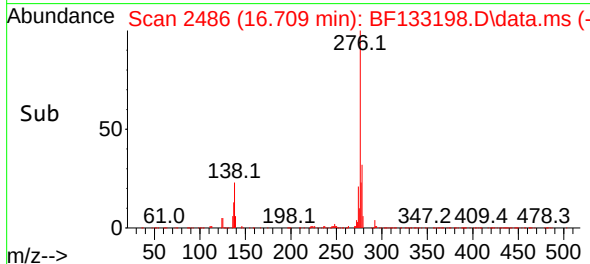
Instrument :
BNA_F
ClientSampleId :
RBR-251671



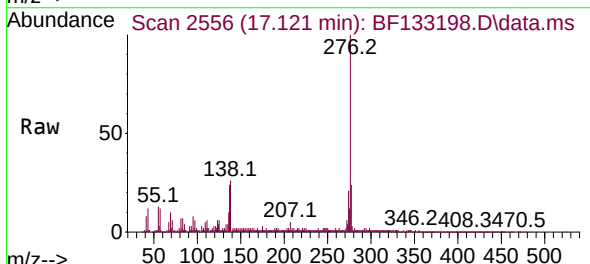
Tgt Ion:278 Resp: 95220
Ion Ratio Lower Upper
278 100
139 26.2 16.6 24.8
279 29.6 18.8 28.2

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/03/2023
Supervised By :Jagrut Upadhyay 05/03/2023



#92
Benzo(g,h,i)perylene
Concen: 23.021 ng
RT: 17.121 min Scan# 2556
Delta R.T. 0.012 min
Lab File: BF133198.D
Acq: 02 May 2023 19:54



Tgt Ion:276 Resp: 344860
Ion Ratio Lower Upper
276 100
277 24.0 19.4 29.0
138 26.3 22.7 34.1

