

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061223\
 Data File : BF133715.D
 Acq On : 12 Jun 2023 21:15
 Operator : CG\JU
 Sample : 03044-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-0-2.0

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/13/2023
 Supervised By :mohammad ahmed 06/13/2023

Quant Time: Jun 12 22:12:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 12 16:32:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	69581	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	243096	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	105904	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	206298	20.000	ng	0.00
76) Chrysene-d12	14.015	240	109902	20.000	ng	0.00
86) Perylene-d12	15.480	264	94355	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	297460	74.424	ng	0.00
7) Phenol-d6	6.457	99	345107	66.334	ng	-0.01
23) Nitrobenzene-d5	7.392	82	219700	49.225	ng	-0.01
42) 2,4,6-Tribromophenol	10.663	330	84019	62.675	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	388583	52.158	ng	0.00
79) Terphenyl-d14	12.951	244	383410	53.982	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	77903	6.578	ng	98
37) 2-Methylnaphthalene	8.828	142	41021	4.985	ng	94
38) 1-Methylnaphthalene	8.928	142	38270	5.054	ng	97
49) Acenaphthylene	9.733	152	29839	2.798	ng	# 97
52) Acenaphthene	9.904	154	116260	18.626	ng	99
55) Dibenzofuran	10.075	168	127376	13.374	ng	93
58) Fluorene	10.422	166	158813	21.804	ng	100
71) Phenanthrene	11.398	178	1556020	148.666	ng	99
72) Anthracene	11.439	178	420397	38.521	ng	100
73) Carbazole	11.592	167	116742	11.485	ng	98
75) Fluoranthene	12.592	202	1645266	148.026	ng	99
78) Pyrene	12.821	202	1411084	137.831	ng	99
81) Benzo(a)anthracene	14.004	228	546093	71.836	ng	96
83) Chrysene	14.039	228	438452	60.980	ng	96
87) Indeno(1,2,3-cd)pyrene	16.951	276	161342	24.855	ng	# 92
88) Benzo(b)fluoranthene	15.057	252	433533m	75.638	ng	
89) Benzo(k)fluoranthene	15.080	252	117113m	20.976	ng	
90) Benzo(a)pyrene	15.421	252	301080	56.600	ng	97
91) Dibenzo(a,h)anthracene	16.956	278	40581	7.551	ng	# 79
92) Benzo(g,h,i)perylene	17.404	276	142079	26.665	ng	99

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

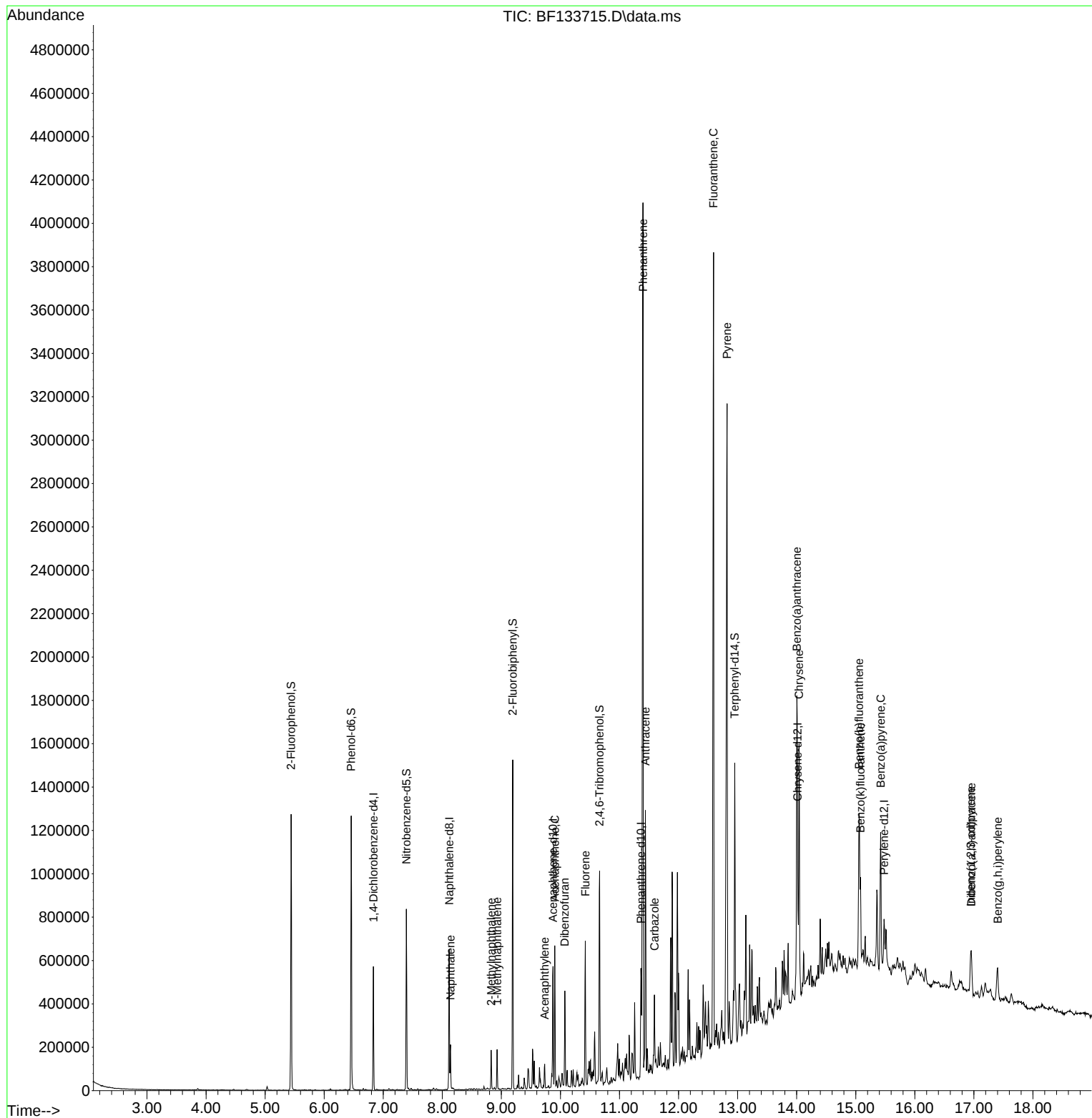
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061223\
Data File : BF133715.D
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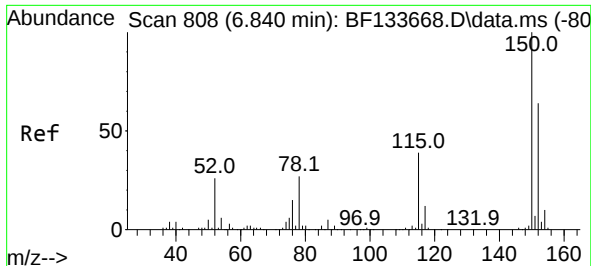
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Quant Time: Jun 12 22:12:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 12 16:32:43 2023
Response via : Initial Calibration

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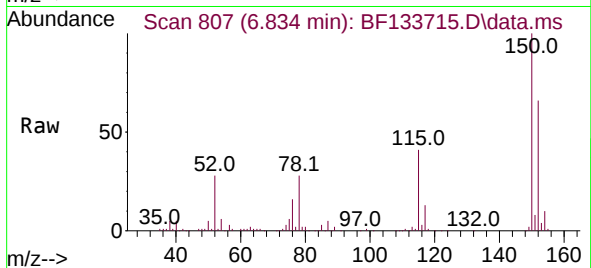
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

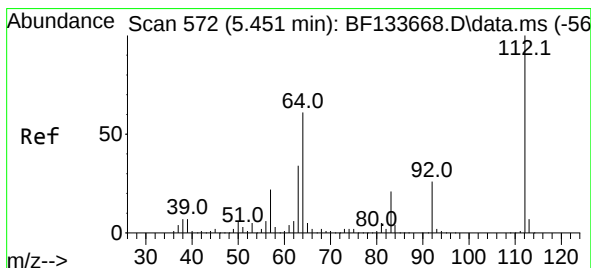
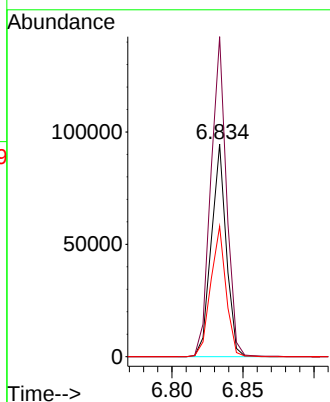
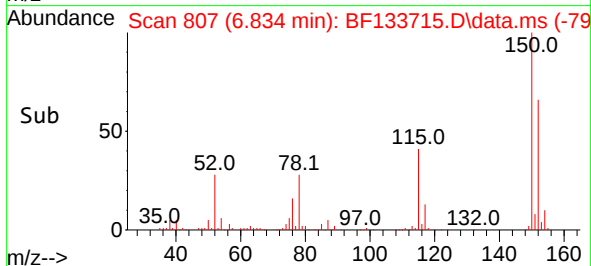
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0



Tgt Ion:152 Resp: 6958
Ion Ratio Lower Upper
152 100
150 150.4 124.3 186.5
115 61.3 48.5 72.7

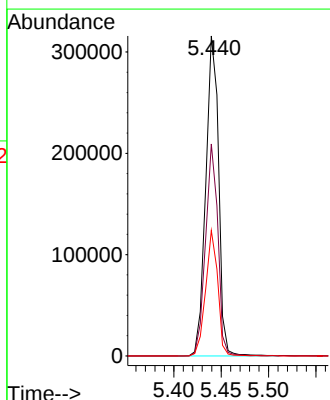
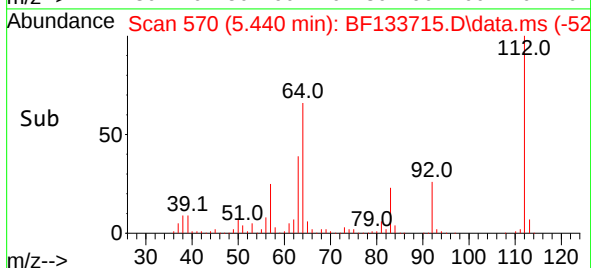
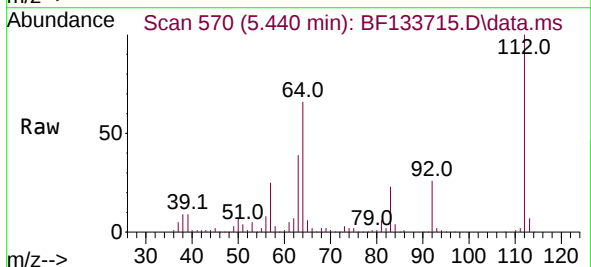
Manual Integrations
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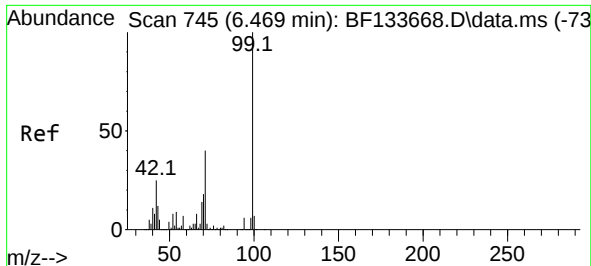
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#5
2-Fluorophenol
Concen: 74.424 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

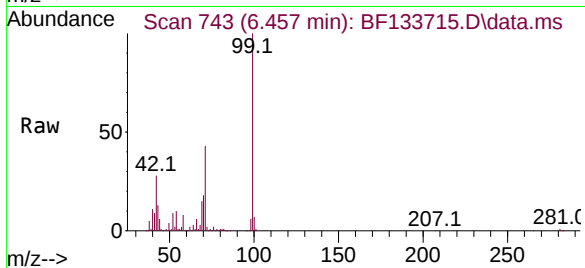
Tgt Ion:112 Resp: 297460
Ion Ratio Lower Upper
112 100
64 66.2 49.0 73.4
63 39.2 26.8 40.2





#7
Phenol-d6
Concen: 66.334 ng
RT: 6.457 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

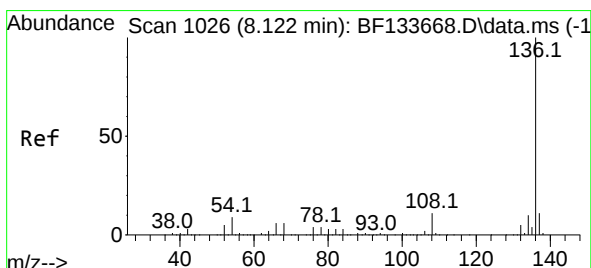
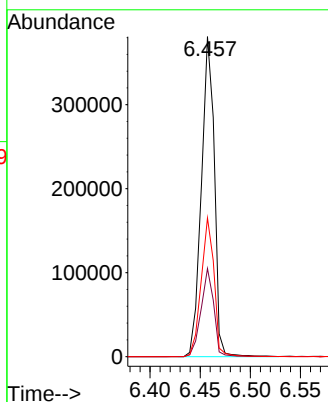
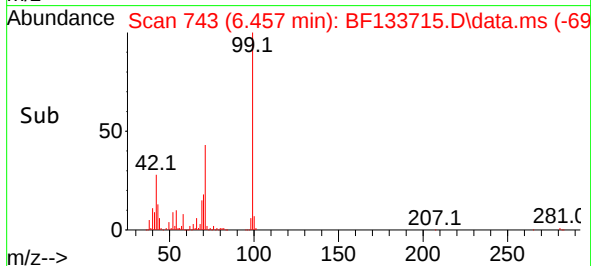
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0



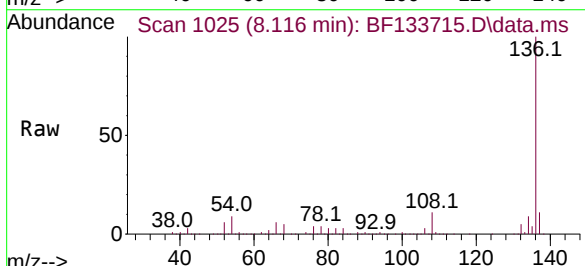
Tgt Ion: 99 Resp: 34510
Ion Ratio Lower Upper
99 100
42 27.6 19.9 29.9
71 43.3 32.2 48.4

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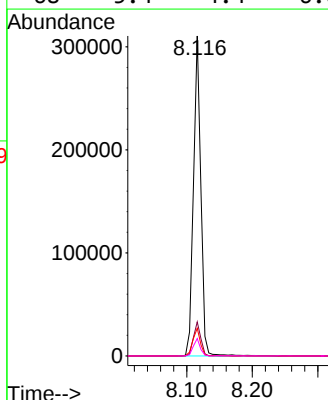
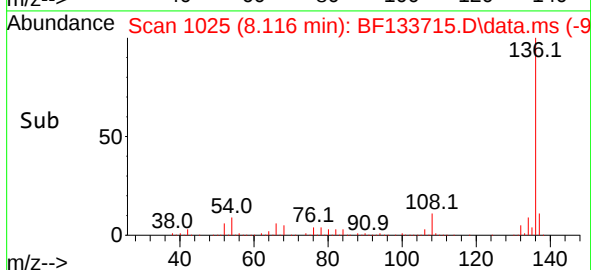
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

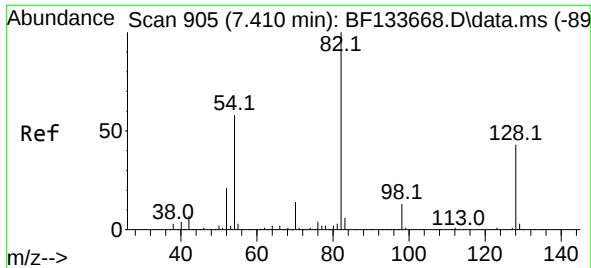


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15



Tgt Ion:136 Resp: 243096
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 8.6 7.4 11.0
68 5.4 4.4 6.6





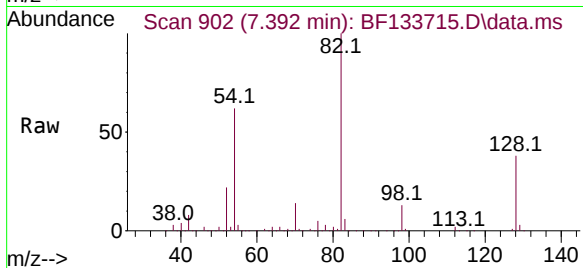
#23
Nitrobenzene-d5
Concen: 49.225 ng
RT: 7.392 min Scan# 905
Delta R.T. -0.012 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

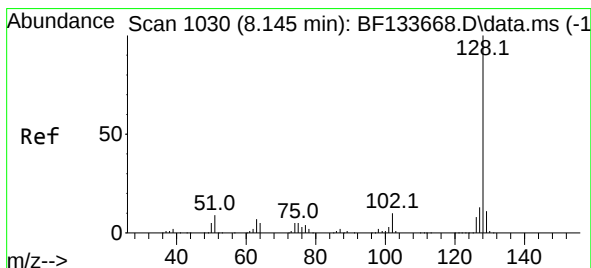
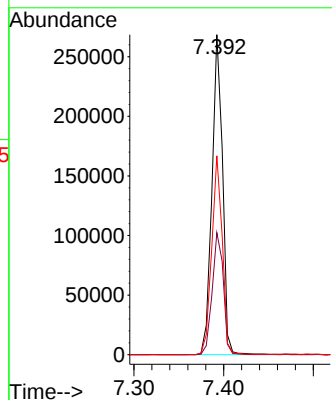
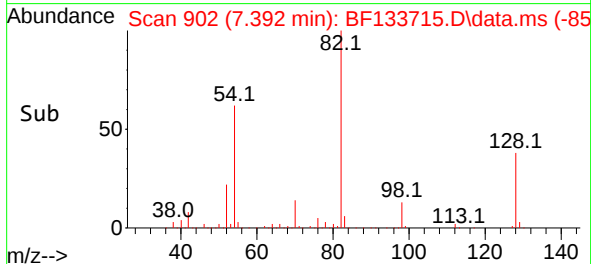


Tgt Ion: 82 Resp: 219700
Ion Ratio Lower Upper
82 100
128 38.2 34.2 51.2
54 62.2 46.5 69.7

Manual Integrations

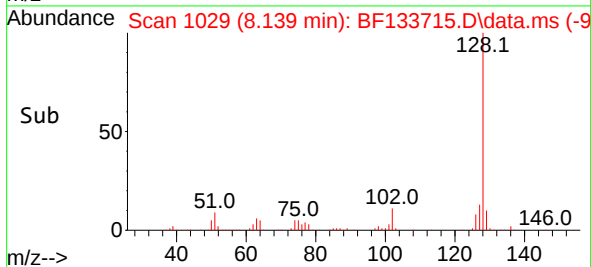
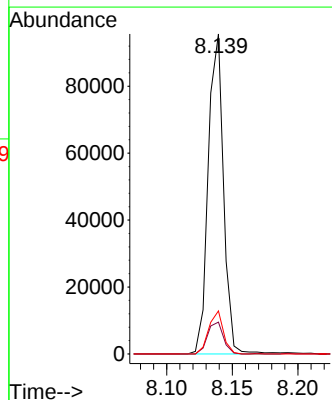
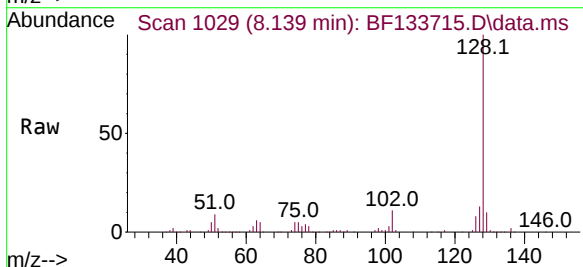
APPROVED

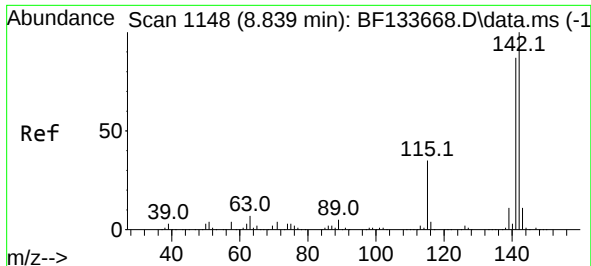
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#31
Naphthalene
Concen: 6.578 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Tgt Ion:128 Resp: 77903
Ion Ratio Lower Upper
128 100
129 10.0 8.9 13.3
127 13.5 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.985 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tgt Ion:142 Resp: 4102

Ion Ratio Lower Upper

142 100

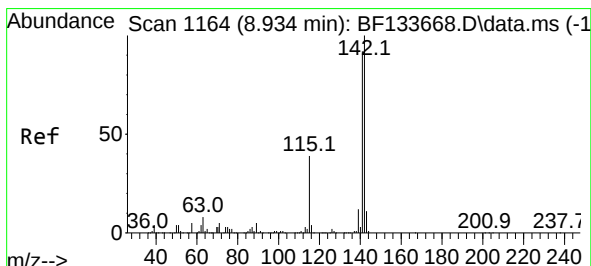
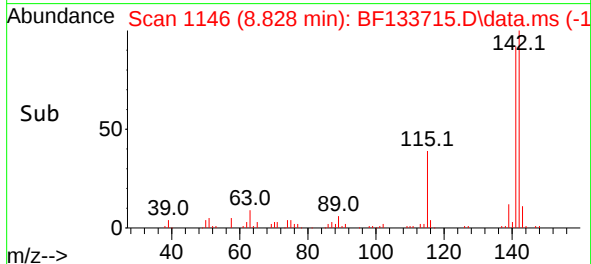
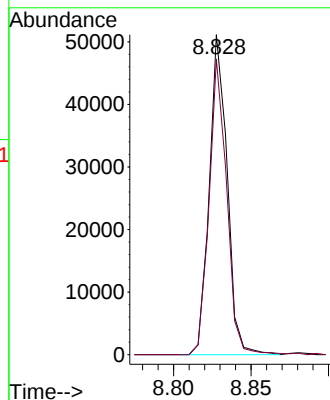
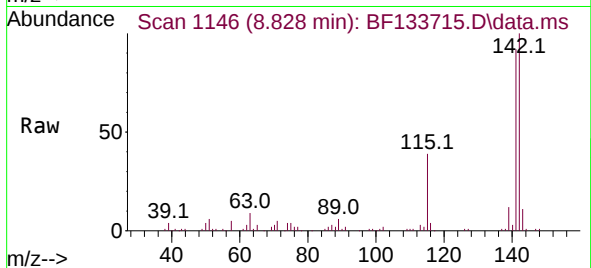
141 92.5 69.8 104.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#38

1-Methylnaphthalene

Concen: 5.054 ng

RT: 8.928 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF133715.D

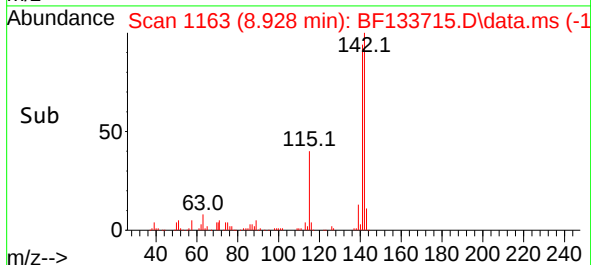
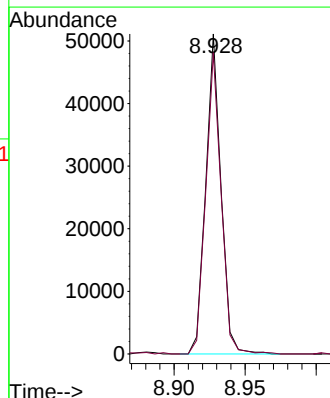
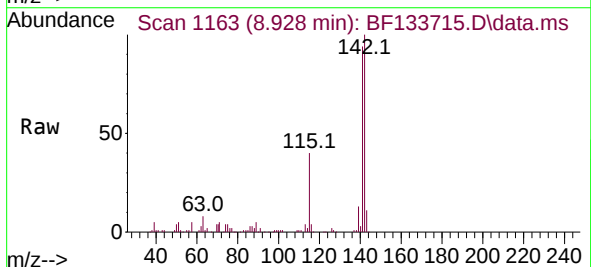
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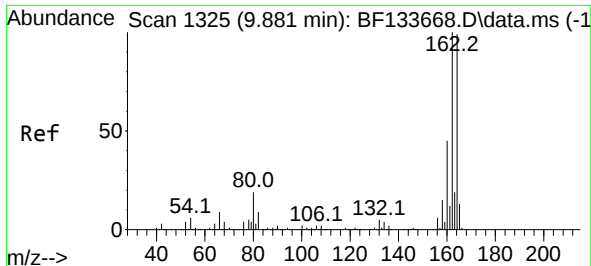
Tgt Ion:142 Resp: 38270

Ion Ratio Lower Upper

142 100

141 94.2 73.4 110.0





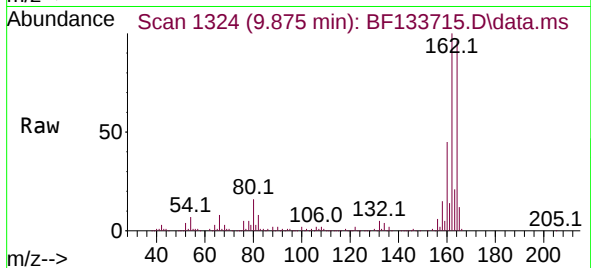
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

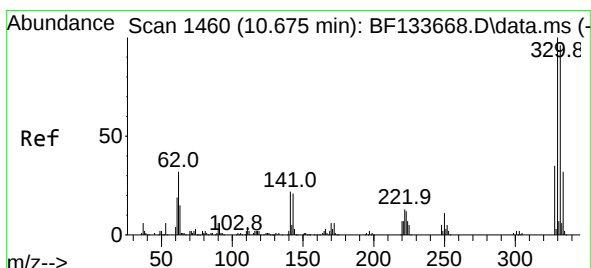
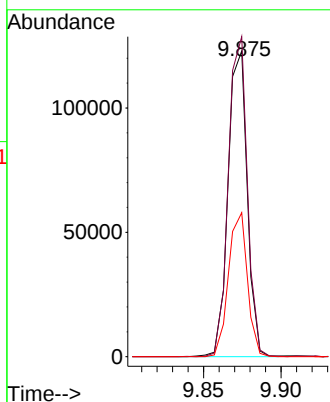
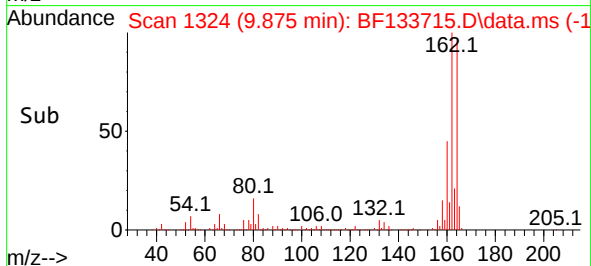


Tgt Ion:164 Resp: 105904
Ion Ratio Lower Upper
164 100
162 104.7 80.8 121.2
160 47.1 36.7 55.1

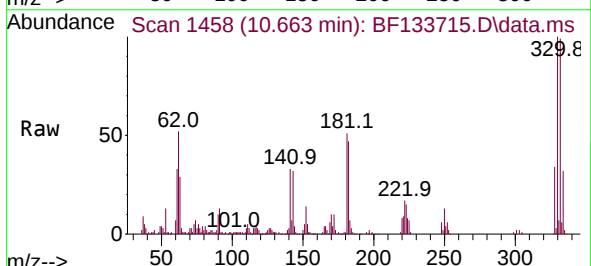
Manual Integrations

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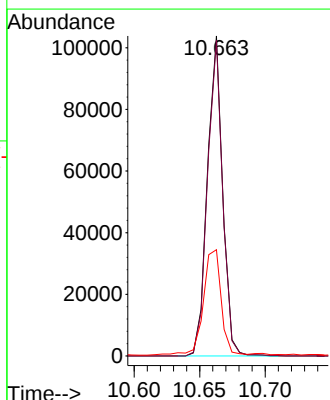
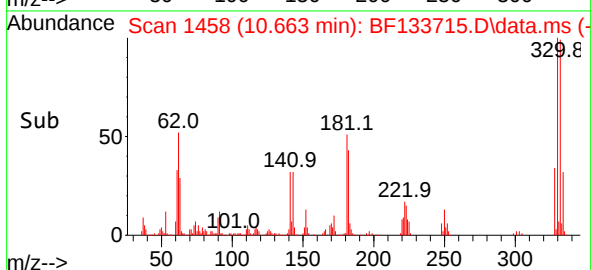
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

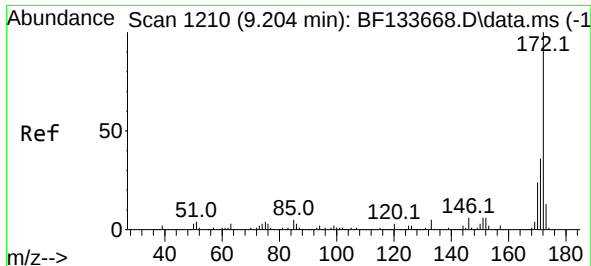


#42
2,4,6-Tribromophenol
Concen: 62.675 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15



Tgt Ion:330 Resp: 84019
Ion Ratio Lower Upper
330 100
332 98.1 77.2 115.8
141 38.6 24.9 37.3#





#45

2-Fluorobiphenyl

Concen: 52.158 ng

RT: 9.192 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tgt Ion:172 Resp: 38858

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

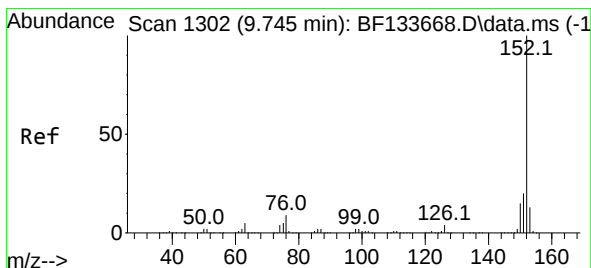
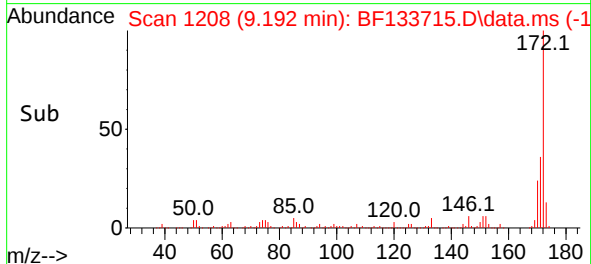
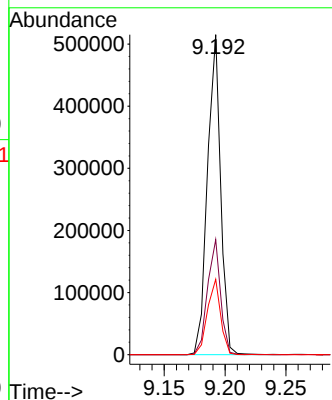
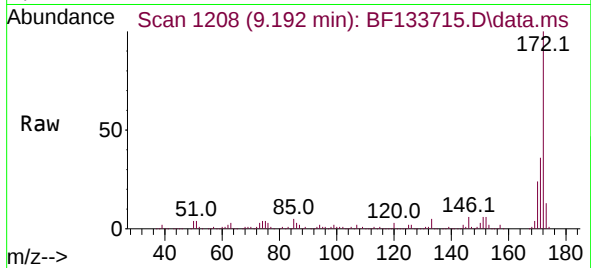
170 23.6 19.1 28.7

Manual Integrations

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Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#49

Acenaphthylene

Concen: 2.798 ng

RT: 9.733 min Scan# 1300

Delta R.T. -0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

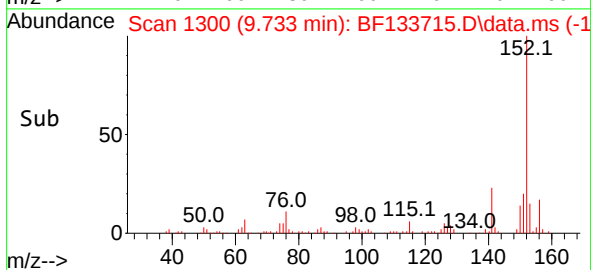
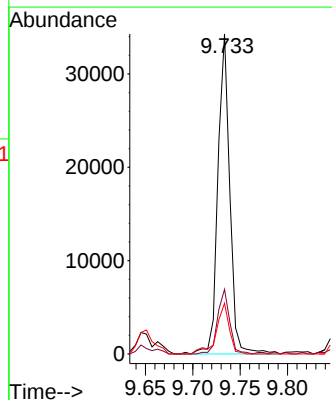
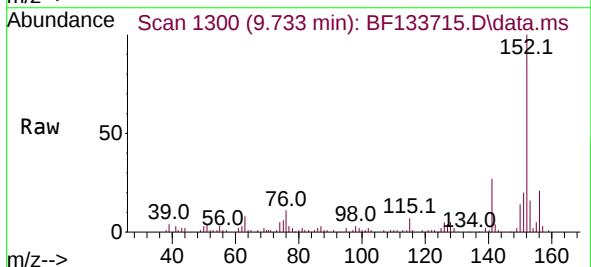
Tgt Ion:152 Resp: 29839

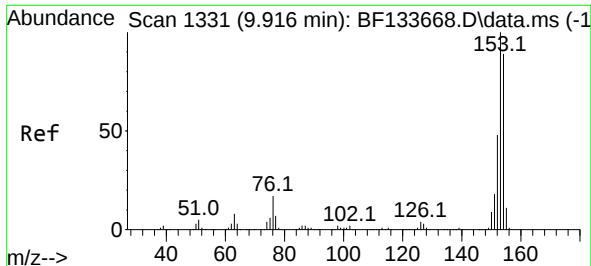
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

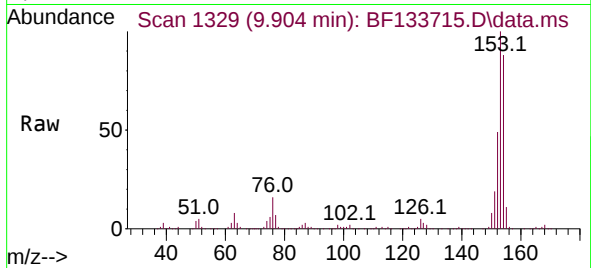
153 15.9 10.4 15.6#





#52
Acenaphthene
Concen: 18.626 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

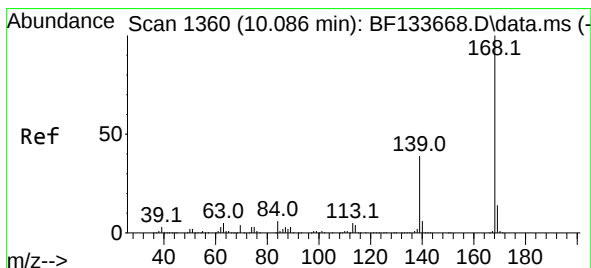
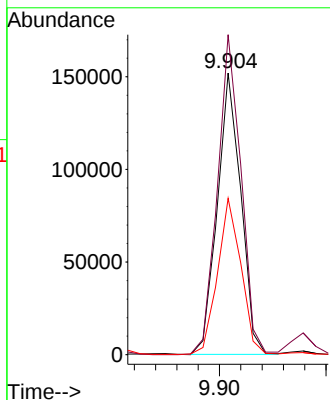
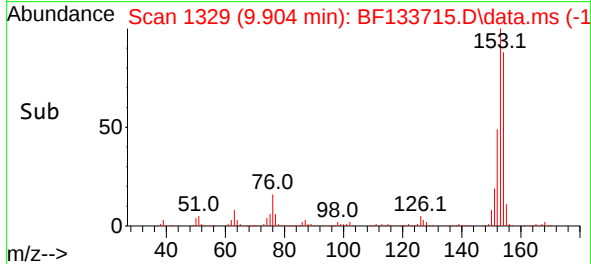
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ClientSampleId :
SB-07-0-2.0



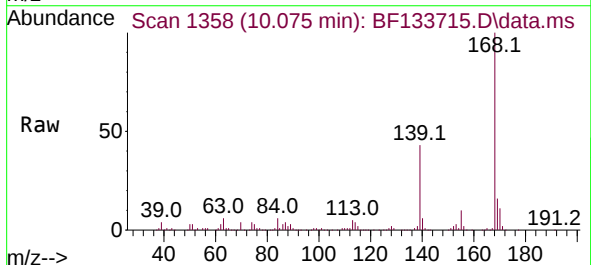
Tgt Ion:154 Resp: 116260
Ion Ratio Lower Upper
154 100
153 113.6 89.8 134.8
152 55.5 43.4 65.2

Manual Integrations
APPROVED

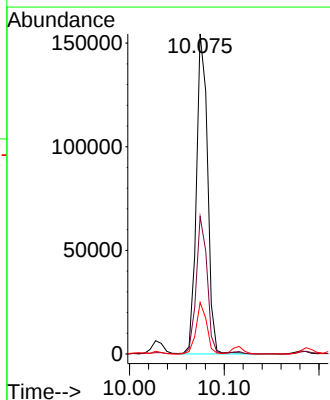
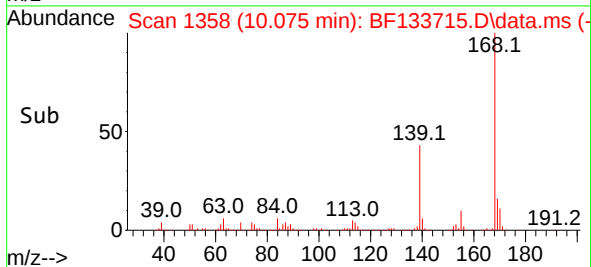
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

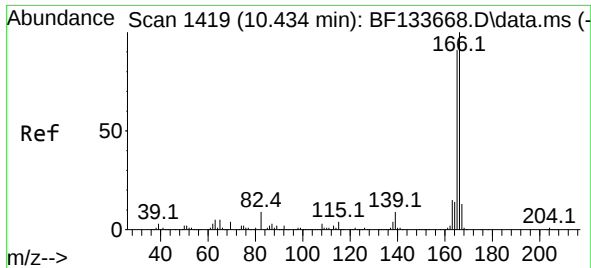


#55
Dibenzofuran
Concen: 13.374 ng
RT: 10.075 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15



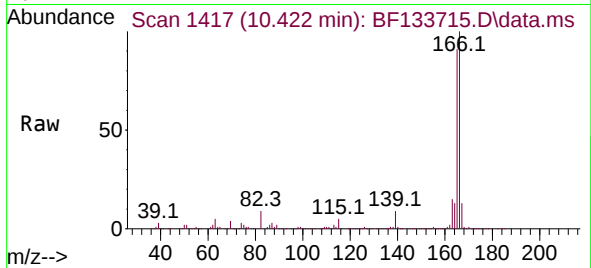
Tgt Ion:168 Resp: 127376
Ion Ratio Lower Upper
168 100
139 42.9 30.9 46.3
169 16.1 10.9 16.3





#58
Fluorene
Concen: 21.804 ng
RT: 10.422 min Scan# 1419
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

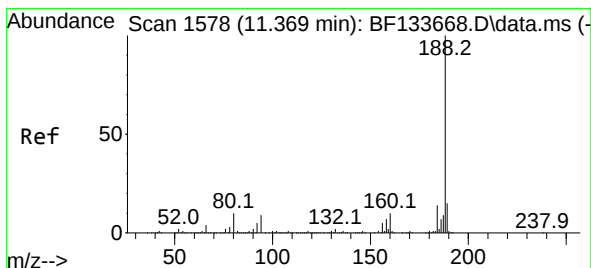
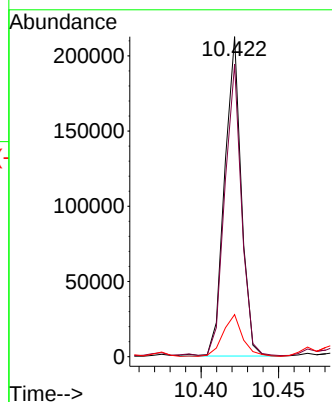
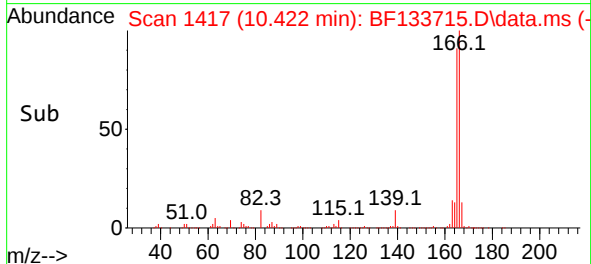
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0



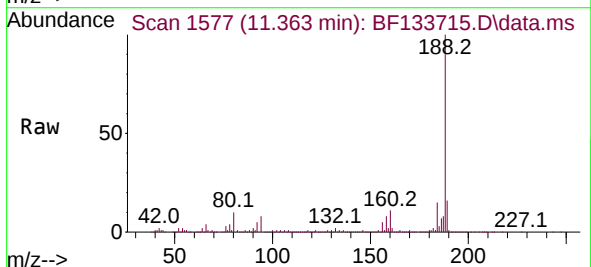
Tgt Ion:166 Resp: 15881
Ion Ratio Lower Upper
166 100
165 91.4 73.1 109.7
167 13.1 10.5 15.7

Manual Integrations
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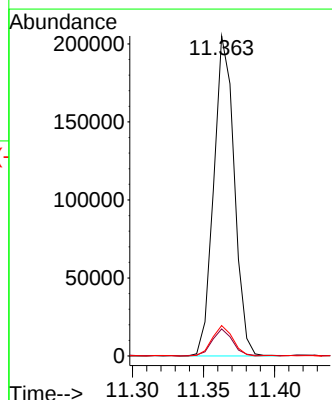
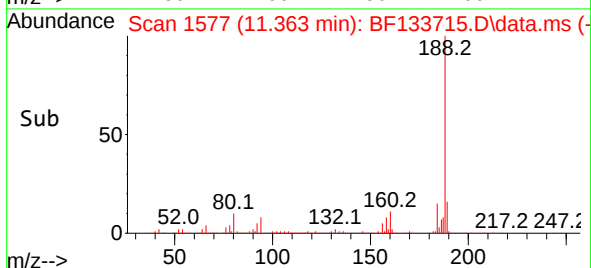
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

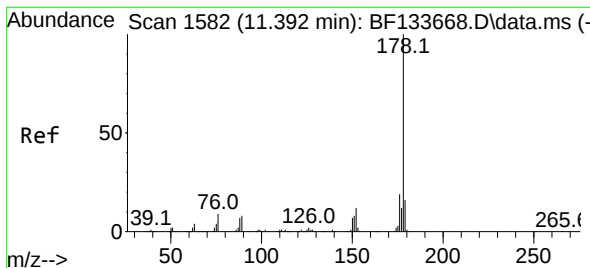


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15



Tgt Ion:188 Resp: 206298
Ion Ratio Lower Upper
188 100
94 8.5 6.8 10.2
80 9.5 7.8 11.6





#71

Phenanthrene

Concen: 148.666 ng

RT: 11.398 min Scan# 1582

Delta R.T. 0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tgt Ion:178 Resp: 1556020

Ion Ratio Lower Upper

178 100

176 20.3 15.6 23.4

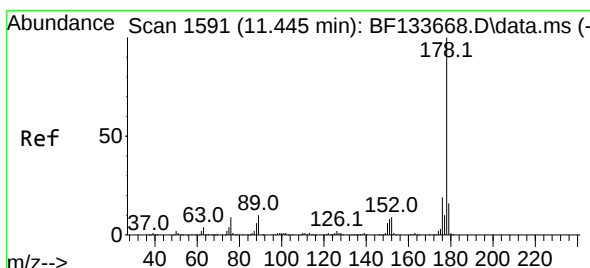
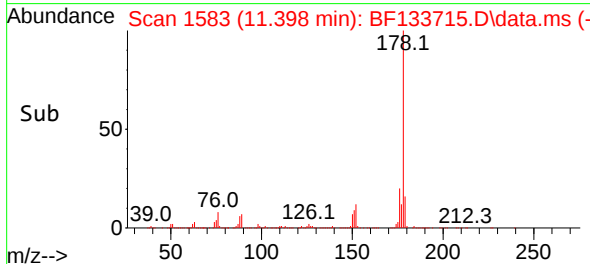
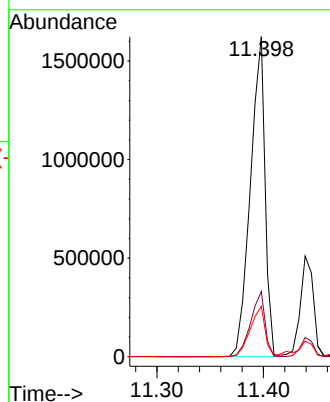
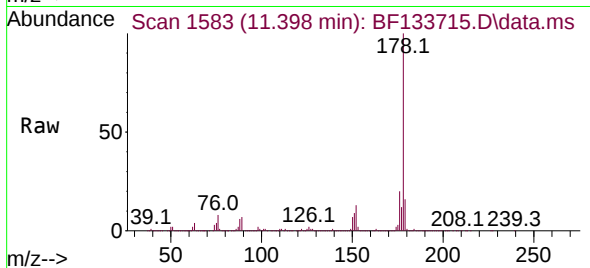
179 15.7 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#72

Anthracene

Concen: 38.521 ng

RT: 11.439 min Scan# 1590

Delta R.T. -0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

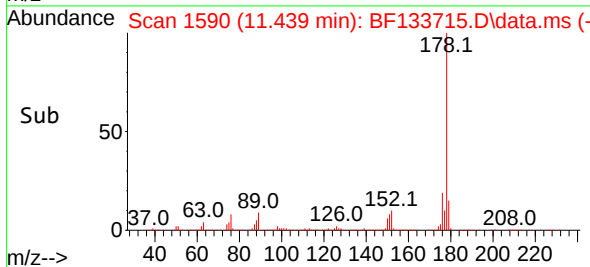
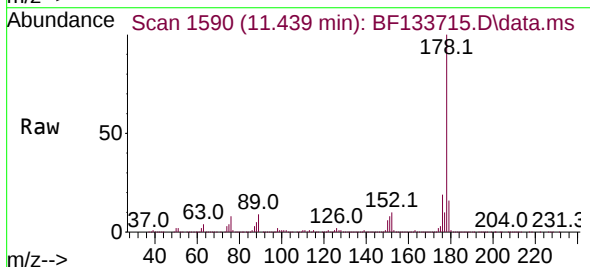
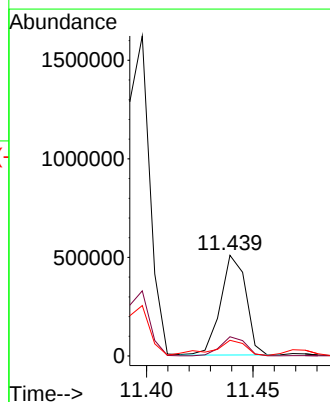
Tgt Ion:178 Resp: 420397

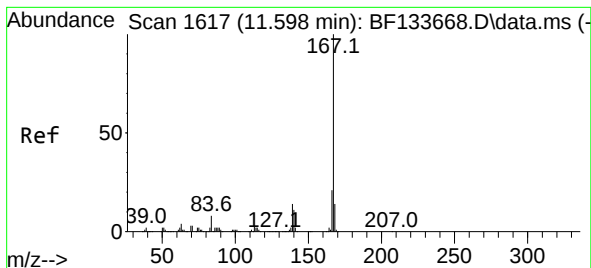
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.5 12.6 18.8





#73

Carbazole

Concen: 11.485 ng

RT: 11.592 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

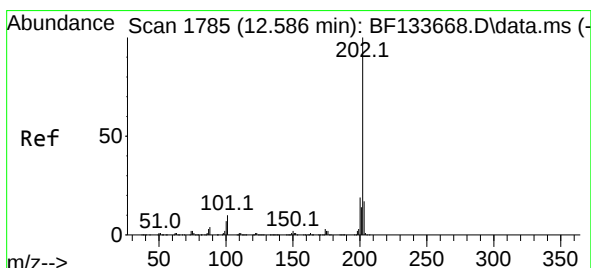
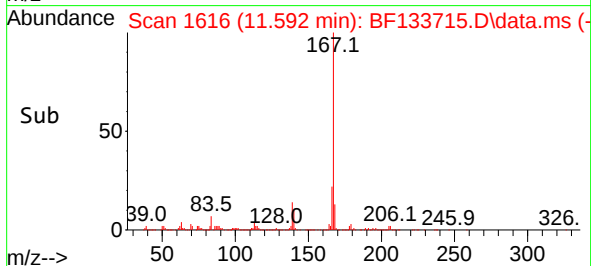
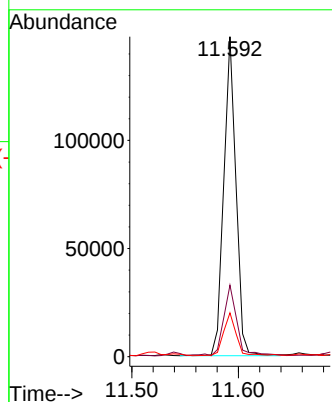
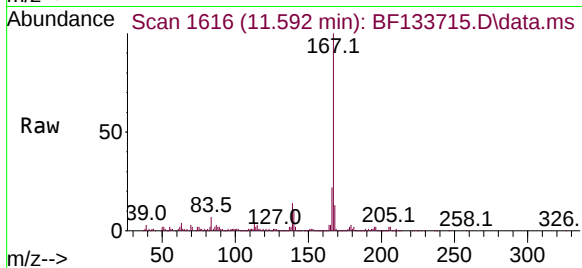
Tgt Ion:167	Resp: 11674
Ion Ratio	Lower Upper
167 100	
166 22.4	17.0 25.6
139 13.7	11.2 16.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#75

Fluoranthene

Concen: 148.026 ng

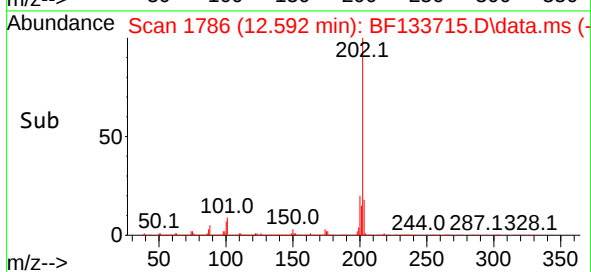
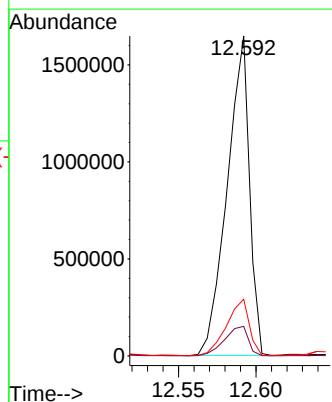
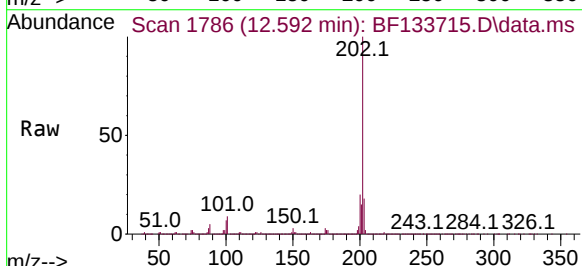
RT: 12.592 min Scan# 1786

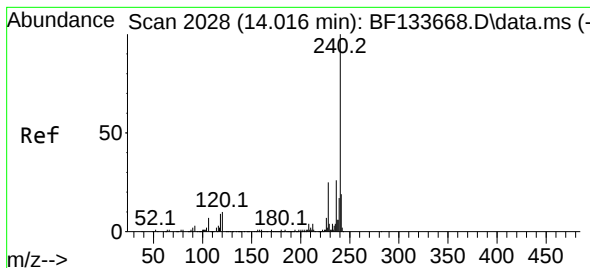
Delta R.T. 0.012 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Tgt Ion:202	Resp: 1645266
Ion Ratio	Lower Upper
202 100	
101 9.2	0.0 29.6
203 17.8	0.0 37.4





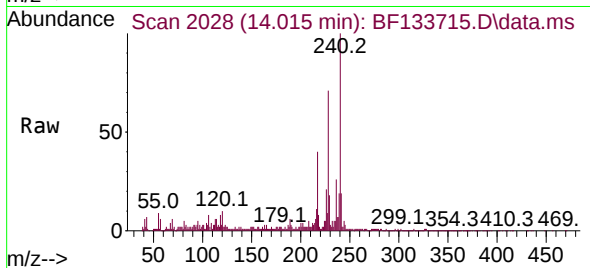
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.015 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0



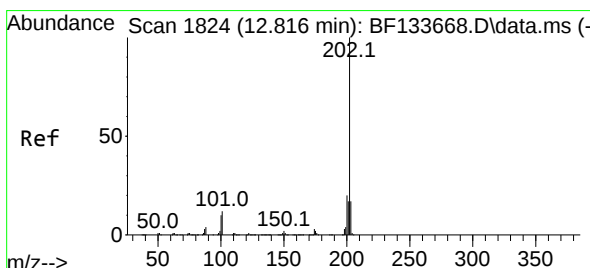
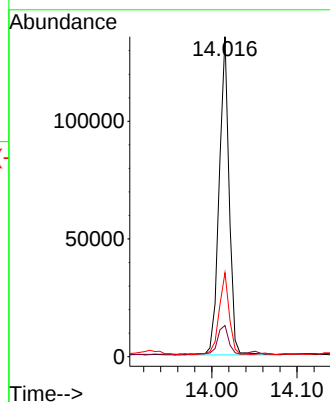
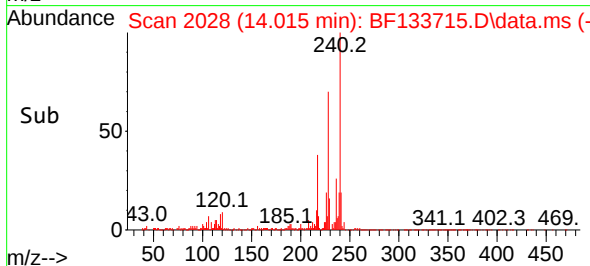
Tgt Ion:240 Resp: 109902
Ion Ratio Lower Upper
240 100
120 9.7 8.1 12.1
236 26.2 20.5 30.7

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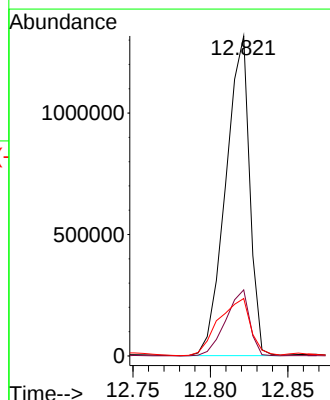
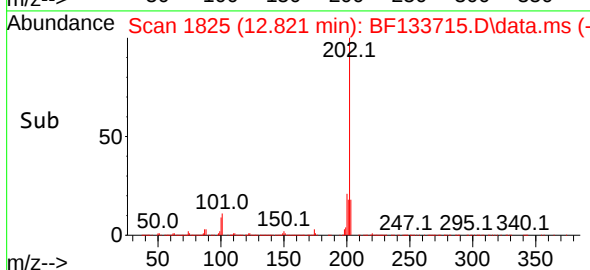
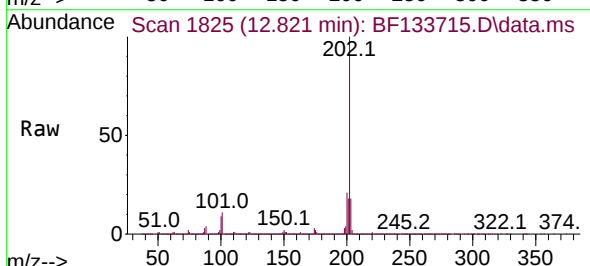
Reviewed By :Yogesh Patel 06/13/2023

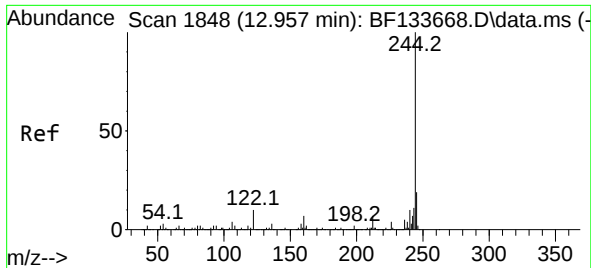
Supervised By :mohammad ahmed 06/13/2023



#78
Pyrene
Concen: 137.831 ng
RT: 12.821 min Scan# 1825
Delta R.T. 0.012 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

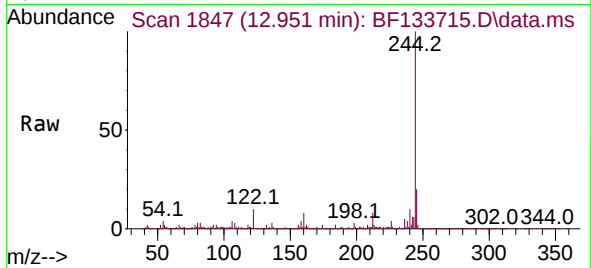
Tgt Ion:202 Resp: 1411084
Ion Ratio Lower Upper
202 100
200 20.7 16.2 24.2
203 18.0 13.9 20.9





#79
Terphenyl-d14
Concen: 53.982 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

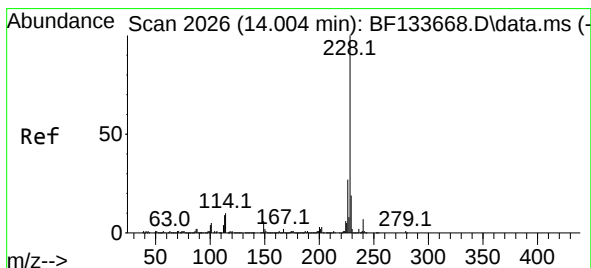
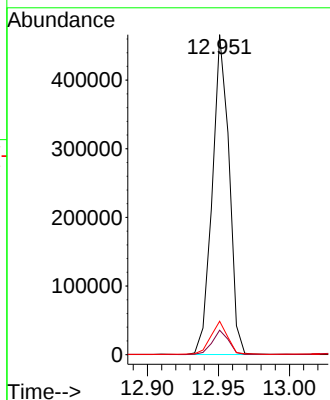
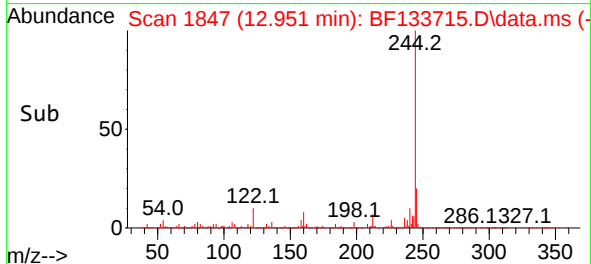
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0



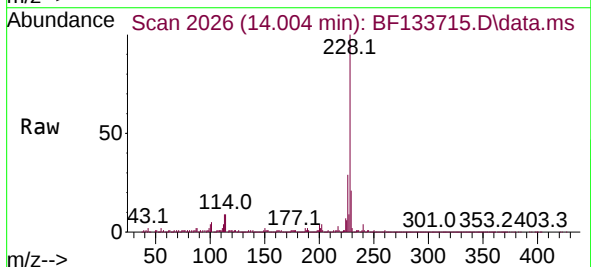
Tgt Ion:244 Resp: 383410
Ion Ratio Lower Upper
244 100
212 7.6 5.4 8.2
122 10.4 8.1 12.1

Manual Integrations
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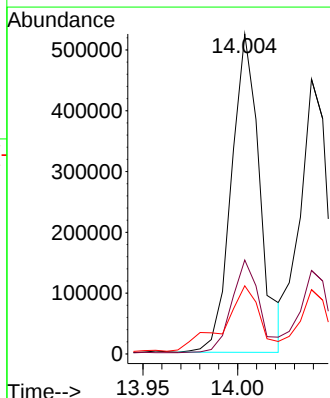
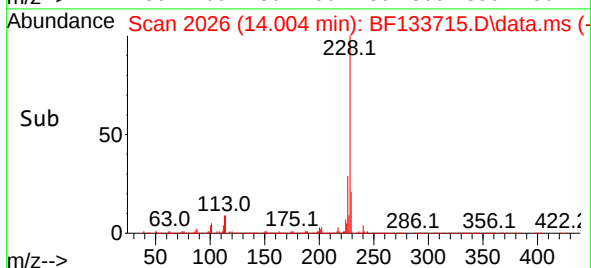
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

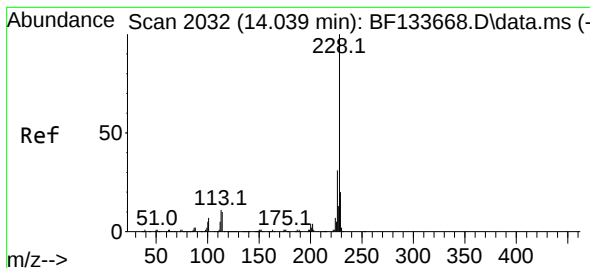


#81
Benzo(a)anthracene
Concen: 71.836 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15



Tgt Ion:228 Resp: 546093
Ion Ratio Lower Upper
228 100
226 29.3 21.7 32.5
229 21.3 15.4 23.2





#83

Chrysene

Concen: 60.980 ng

RT: 14.039 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tgt Ion:228 Resp: 43845

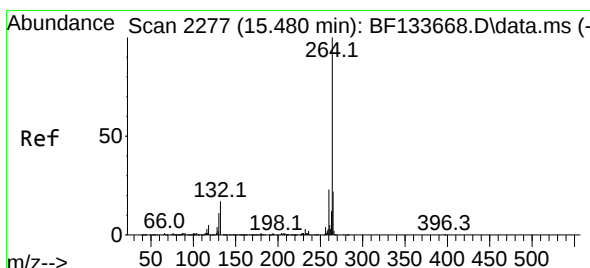
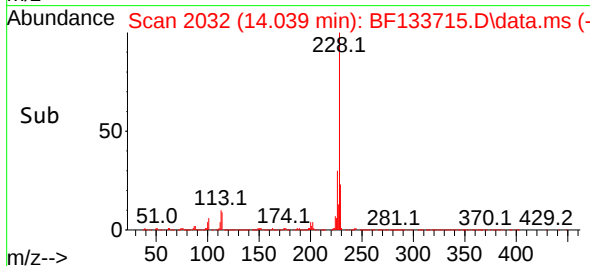
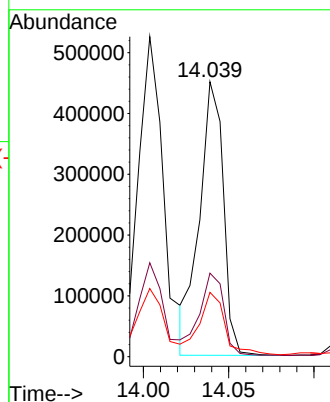
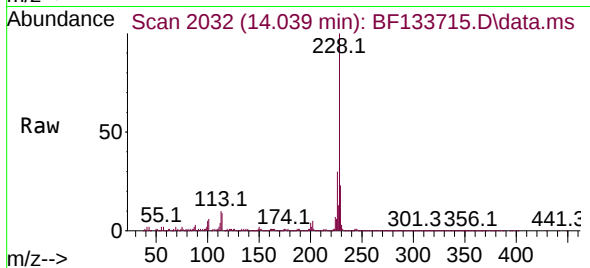
Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	23.4	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.480 min Scan# 2277

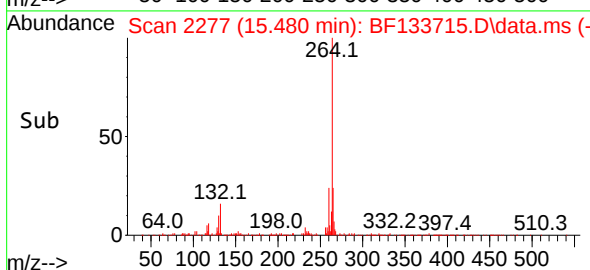
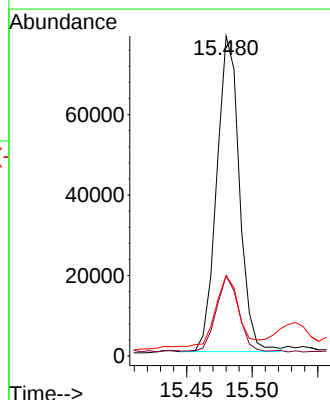
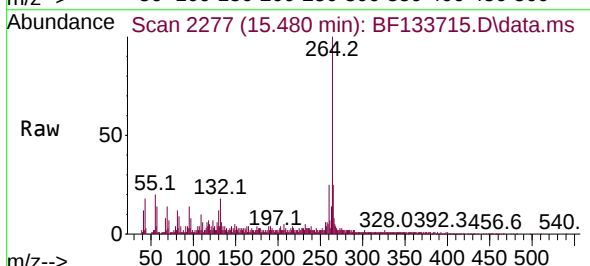
Delta R.T. 0.006 min

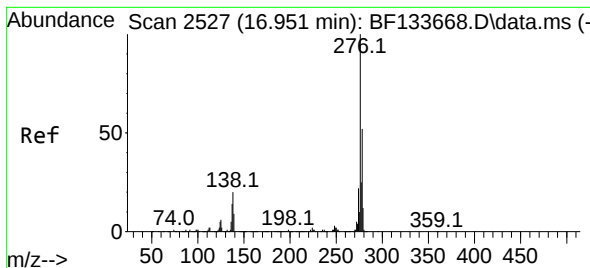
Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Tgt Ion:264 Resp: 94355

Ion	Ratio	Lower	Upper
264	100		
260	25.0	18.2	27.2
265	25.2	17.8	26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 24.855 ng

RT: 16.951 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

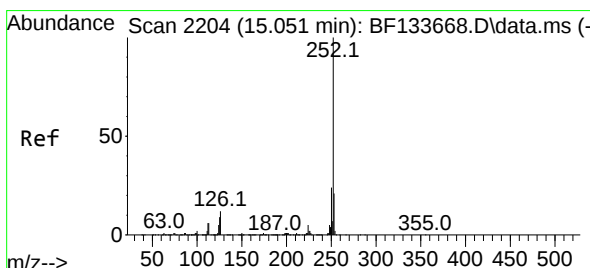
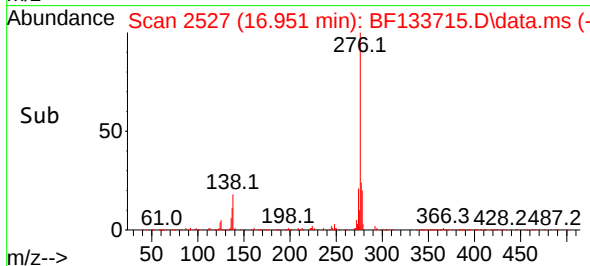
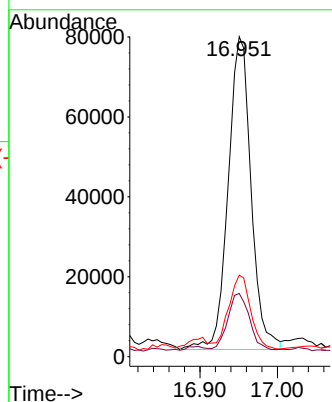
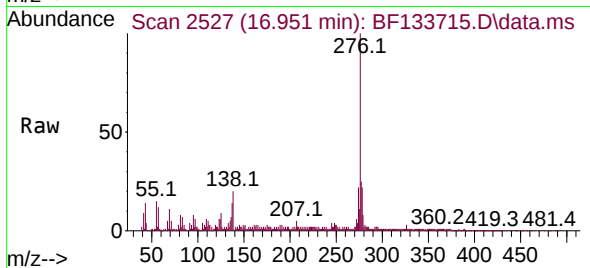
Tgt Ion:	276	Resp:	16134
Ion Ratio	Lower	Upper	
276	100		
138	17.3	17.9	26.9
277	22.7	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#88

Benzo(b)fluoranthene

Concen: 75.638 ng m

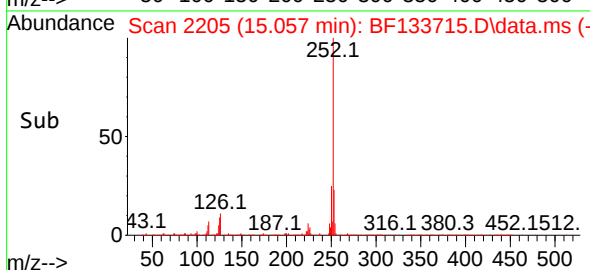
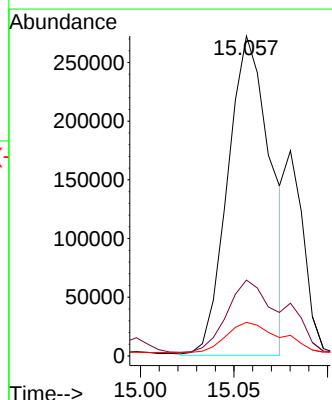
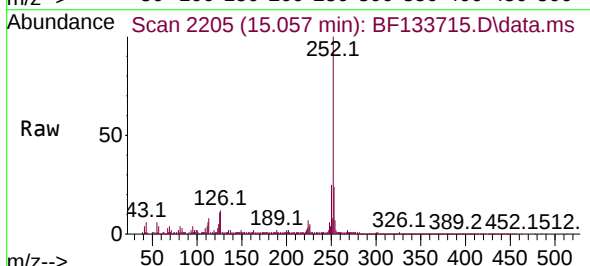
RT: 15.057 min Scan# 2205

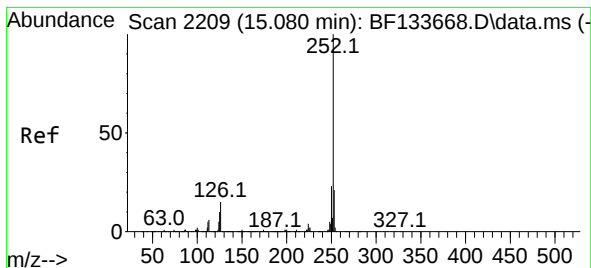
Delta R.T. 0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Tgt Ion:	252	Resp:	433533
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.0	25.6
125	10.5	7.3	10.9





#89

Benzo(k)fluoranthene

Concen: 20.976 ng m

RT: 15.080 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Instrument :

BNF

ClientSampleId :

SB-07-0-2.0

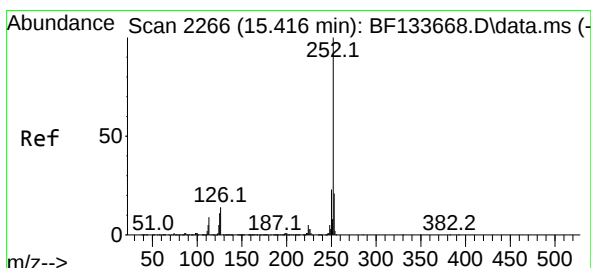
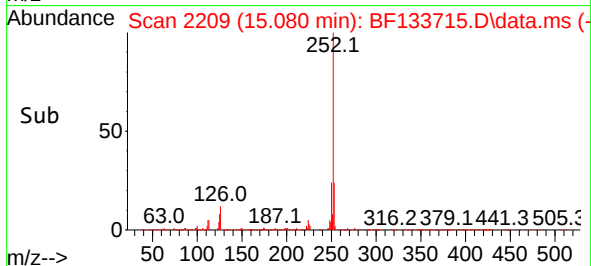
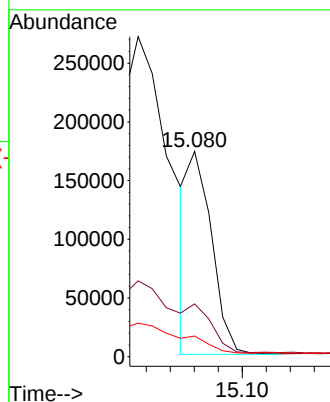
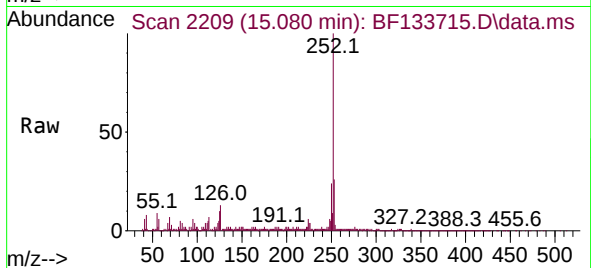
Tgt Ion:252 Resp: 11711
 Ion Ratio Lower Upper
 252 100
 253 25.7 17.0 25.4
 125 10.1 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#90

Benzo(a)pyrene

Concen: 56.600 ng

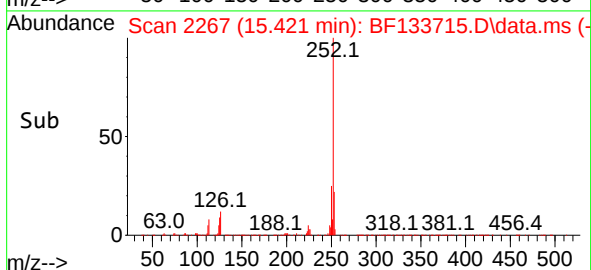
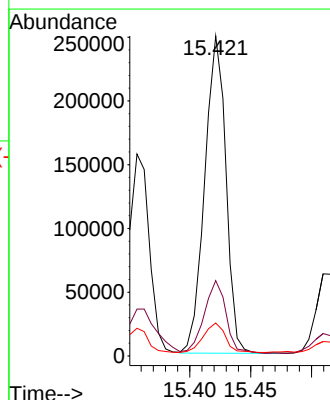
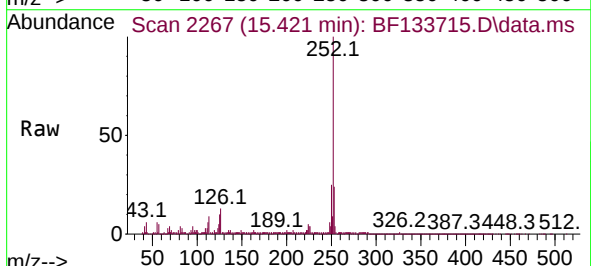
RT: 15.421 min Scan# 2267

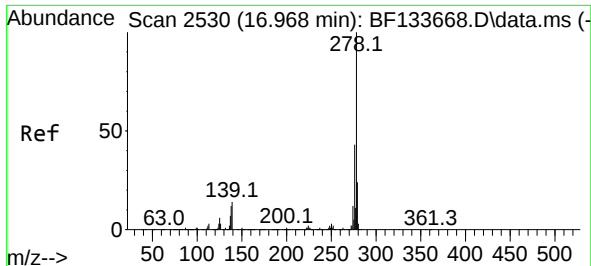
Delta R.T. 0.006 min

Lab File: BF133715.D

Acq: 12 Jun 2023 21:15

Tgt Ion:252 Resp: 301080
 Ion Ratio Lower Upper
 252 100
 253 23.5 17.1 25.7
 125 10.3 8.6 13.0





#91
Dibenzo(a,h)anthracene
Concen: 7.551 ng
RT: 16.956 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Instrument :

BNA_F

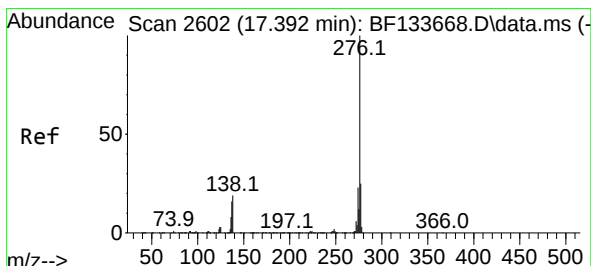
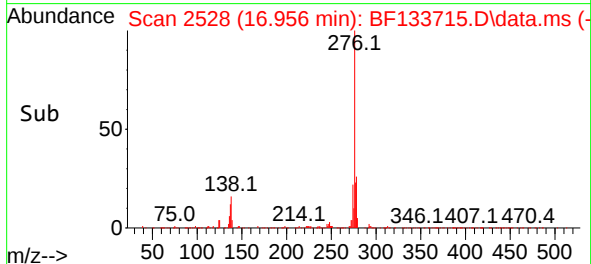
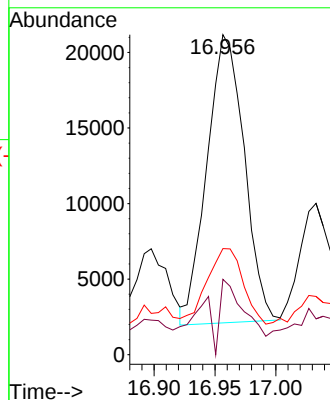
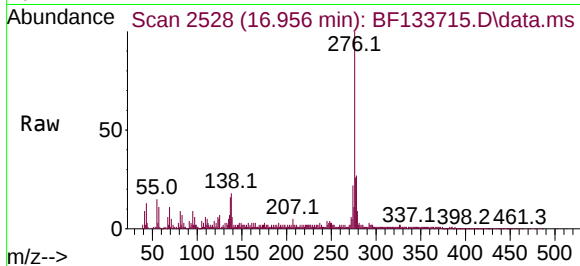
ClientSampleId :

SB-07-0-2.0

Tgt Ion:278 Resp: 4058
Ion Ratio Lower Upper
278 100
139 23.6 11.4 17.2
279 33.2 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#92
Benzo(g,h,i)perylene
Concen: 26.665 ng
RT: 17.404 min Scan# 2604
Delta R.T. 0.012 min
Lab File: BF133715.D
Acq: 12 Jun 2023 21:15

Tgt Ion:276 Resp: 142079
Ion Ratio Lower Upper
276 100
277 24.2 19.8 29.8
138 19.0 15.0 22.4

