

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136066.D
 Acq On : 31 Oct 2023 22:45
 Operator : CG\JU
 Sample : 04805-01DL 25X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)DL

Quant Time: Nov 01 00:38:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

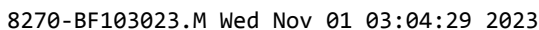
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

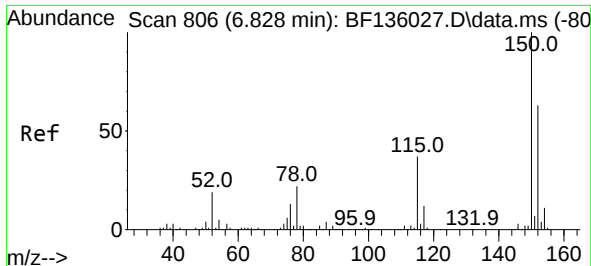
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	104495	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	354868	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	165898	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	325748	20.000	ng	0.00
76) Chrysene-d12	14.015	240	289218	20.000	ng	0.00
86) Perylene-d12	15.504	264	219047	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	27728	4.170	ng	-0.01
7) Phenol-d6	6.445	99	32102	3.875	ng	-0.01
23) Nitrobenzene-d5	7.375	82	15798	2.684	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	6249	3.529	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	34298	3.296	ng	0.00
79) Terphenyl-d14	12.951	244	45442	2.442	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	41675	2.435	ng	98
49) Acenaphthylene	9.722	152	38110	2.620	ng	98
52) Acenaphthene	9.892	154	26485	2.865	ng	99
55) Dibenzofuran	10.069	168	27071	2.008	ng	# 97
58) Fluorene	10.410	166	49199	4.874	ng	94
71) Phenanthrene	11.380	178	356235	21.720	ng	99
72) Anthracene	11.427	178	120875	7.192	ng	99
75) Fluoranthene	12.574	202	610662	36.242	ng	100
78) Pyrene	12.804	202	552348	21.662	ng	99
81) Benzo(a)anthracene	14.004	228	277369	14.486	ng	96
83) Chrysene	14.039	228	255532m	13.551	ng	
87) Indeno(1,2,3-cd)pyrene	17.015	276	104133	7.274	ng	96
88) Benzo(b)fluoranthene	15.068	252	291227m	22.469	ng	
89) Benzo(k)fluoranthene	15.092	252	86908m	6.777	ng	
90) Benzo(a)pyrene	15.439	252	200970	16.688	ng	98
91) Dibenzo(a,h)anthracene	17.033	278	26292m	2.242	ng	
92) Benzo(g,h,i)perylene	17.474	276	95506	9.617	ng	99

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

Manual Integrations

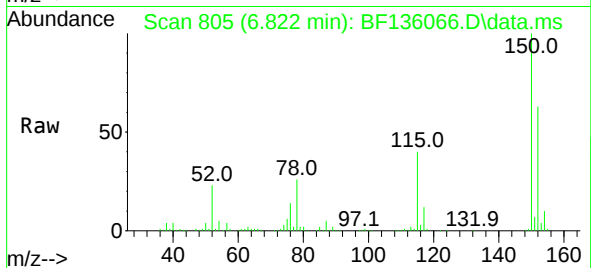
Quant Time: Nov 01 00:38:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

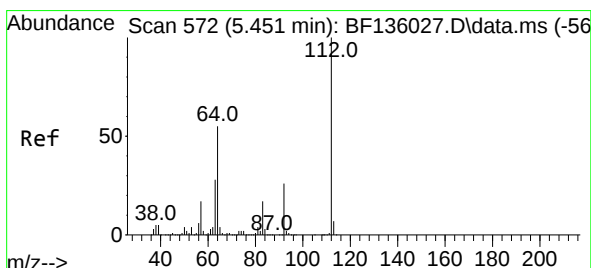
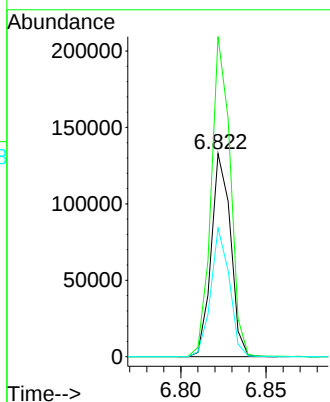
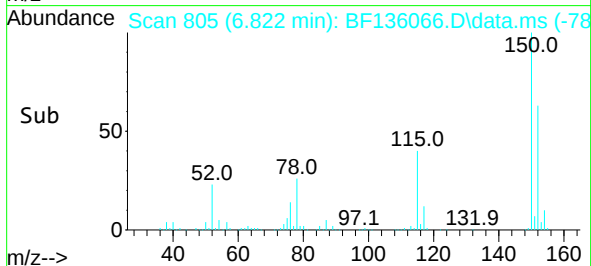
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



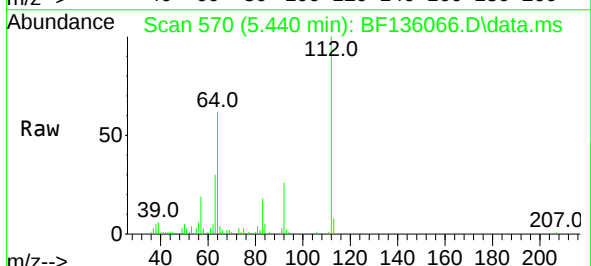
Tgt Ion:152 Resp: 104495
Ion Ratio Lower Upper
152 100
150 157.6 126.4 189.6
115 63.3 47.0 70.4

Manual Integrations
APPROVED

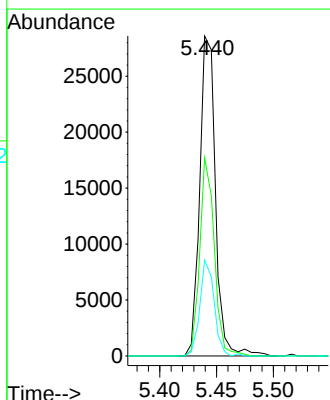
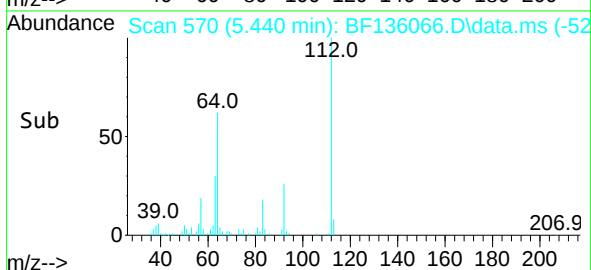
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 4.170 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45



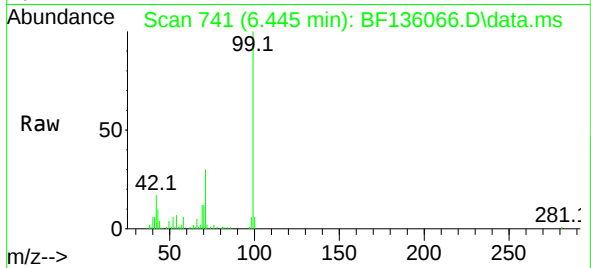
Tgt Ion:112 Resp: 27728
Ion Ratio Lower Upper
112 100
64 61.9 43.9 65.9
63 30.0 22.4 33.6





#7
Phenol-d6
Concen: 3.875 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

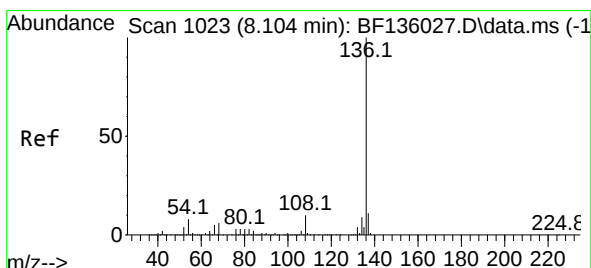
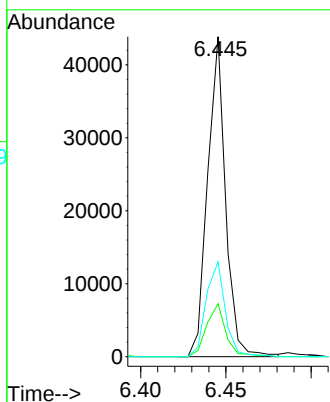
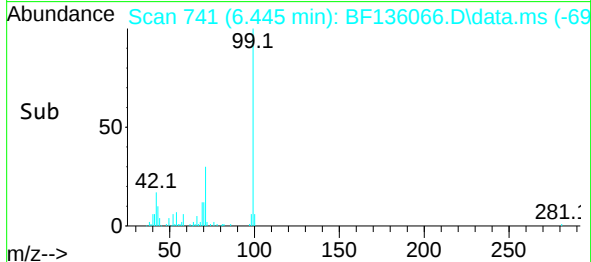
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



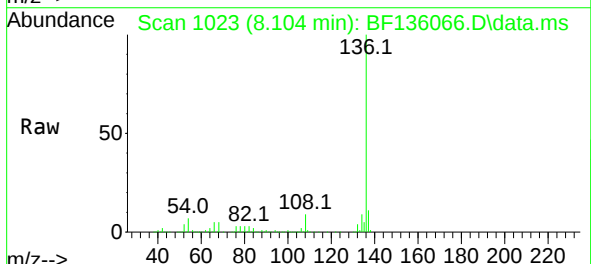
Tgt Ion: 99 Resp: 3210
Ion Ratio Lower Upper
99 100
42 16.6 13.7 20.5
71 29.6 25.9 38.9

Manual Integrations
APPROVED

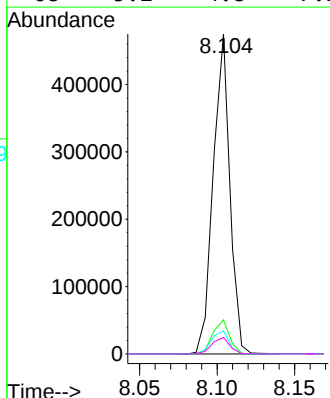
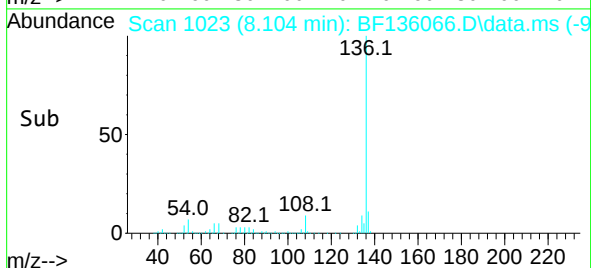
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45



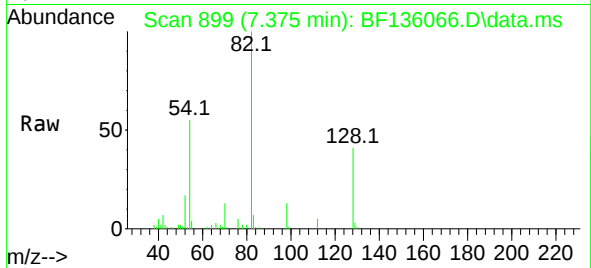
Tgt Ion:136 Resp: 354868
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 7.2 6.6 9.8
68 5.2 4.8 7.2





#23
Nitrobenzene-d5
Concen: 2.684 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

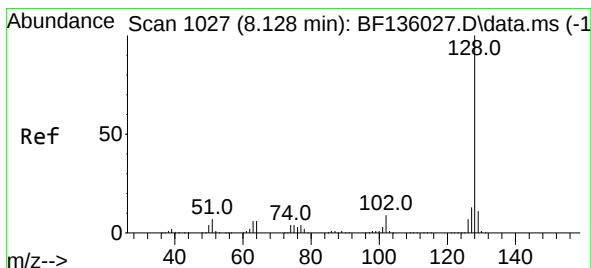
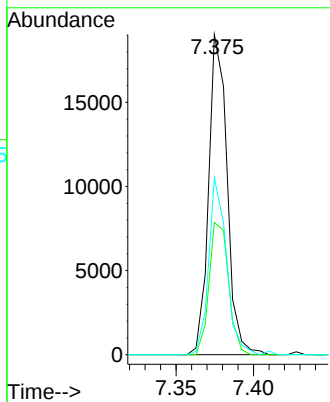
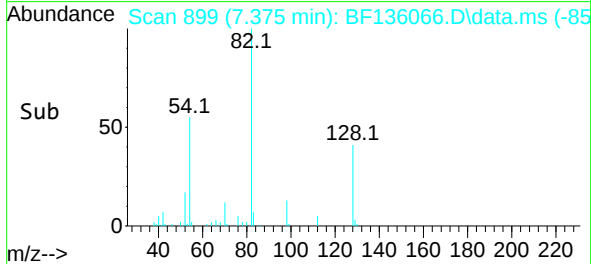
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



Tgt Ion: 82 Resp: 15798
Ion Ratio Lower Upper
82 100
128 41.3 38.6 57.8
54 55.2 40.8 61.2

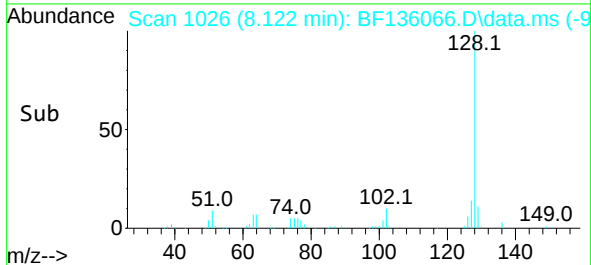
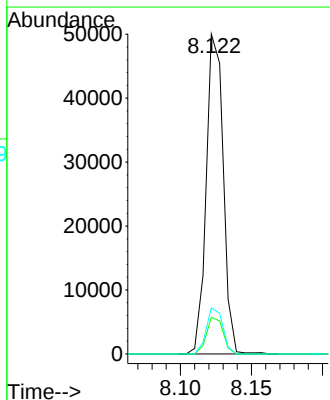
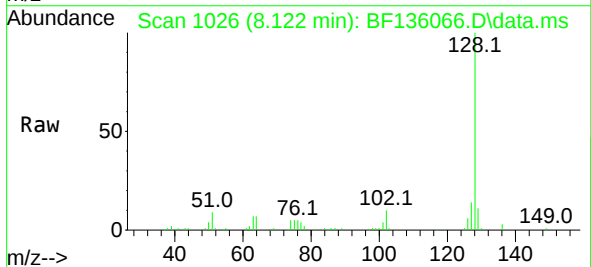
Manual Integrations
APPROVED

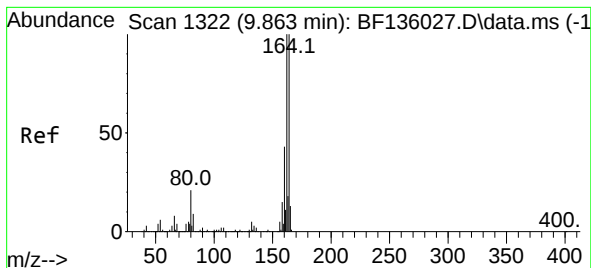
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#31
Naphthalene
Concen: 2.435 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:128 Resp: 41675
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 14.4 10.5 15.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.863 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF136066.D

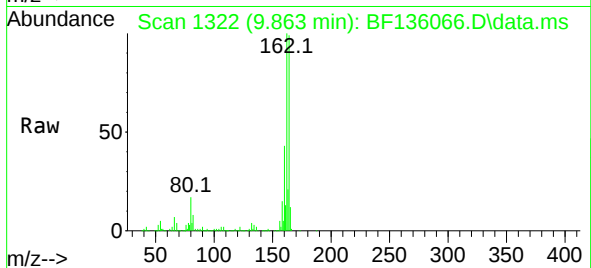
Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL



Tgt Ion:164 Resp: 16589

Ion Ratio Lower Upper

164 100

162 100.7 80.1 120.1

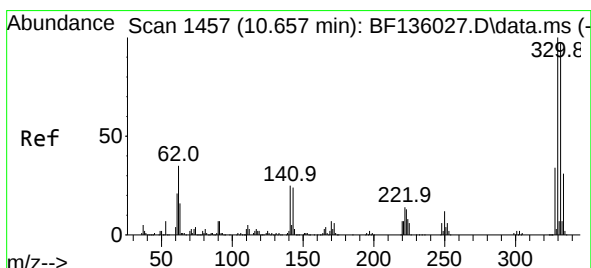
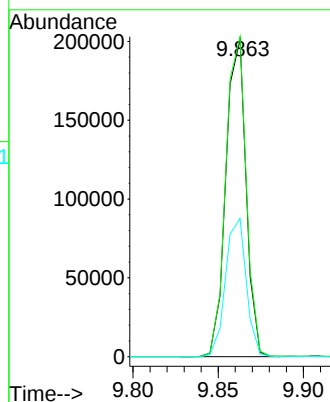
160 43.5 34.8 52.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#42

2,4,6-Tribromophenol

Concen: 3.529 ng

RT: 10.651 min Scan# 1456

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

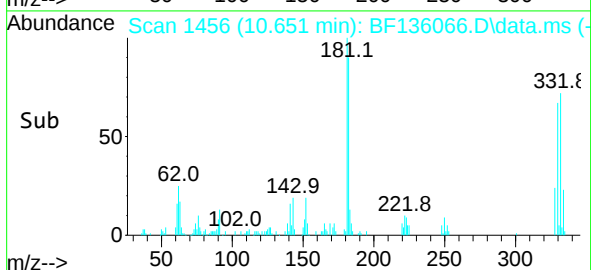
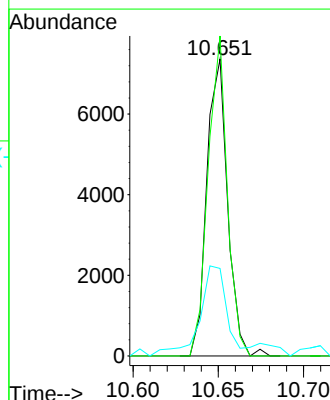
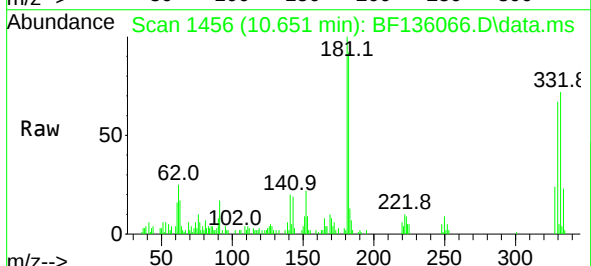
Tgt Ion:330 Resp: 6249

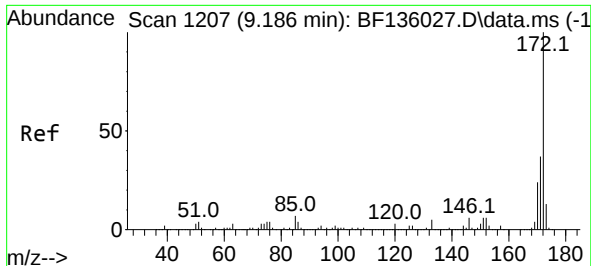
Ion Ratio Lower Upper

330 100

332 99.7 76.9 115.3

141 41.1 23.2 34.8#





#45

2-Fluorobiphenyl

Concen: 3.296 ng

RT: 9.180 min Scan# 1207

Delta R.T. -0.006 min

Lab File: BF136066.D

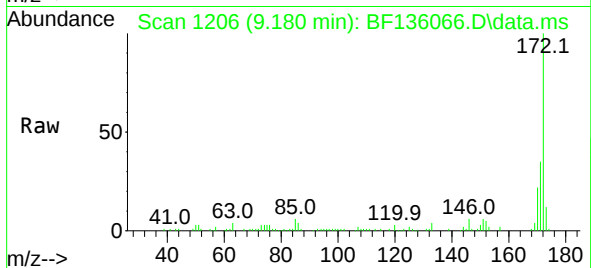
Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL



Tgt Ion:172 Resp: 34298

Ion Ratio Lower Upper

172 100

171 34.6 29.4 44.0

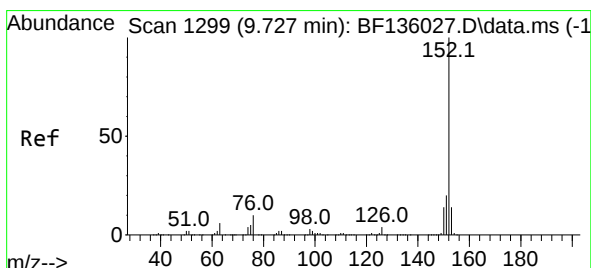
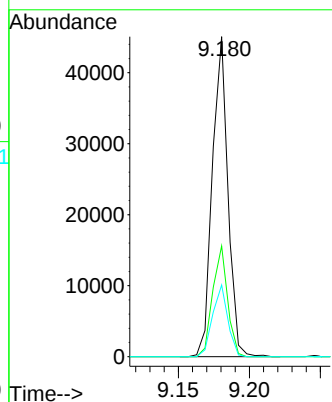
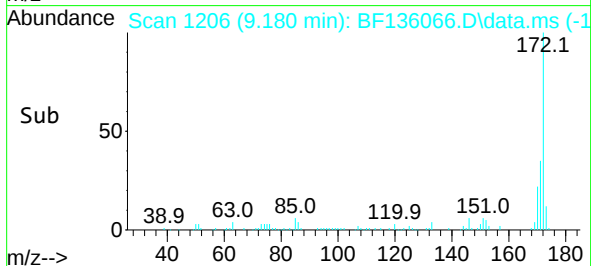
170 22.4 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#49

Acenaphthylene

Concen: 2.620 ng

RT: 9.722 min Scan# 1298

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

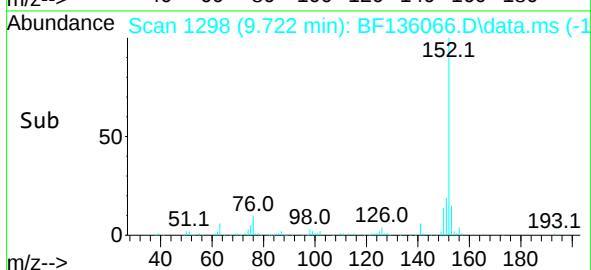
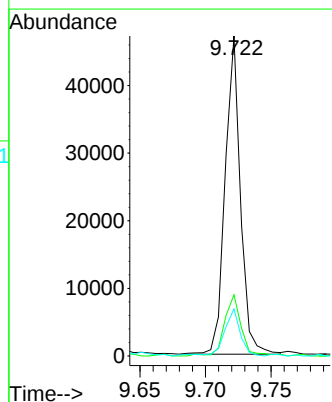
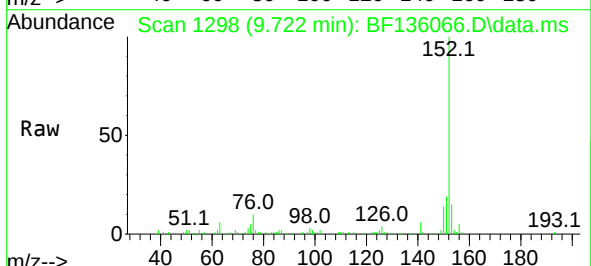
Tgt Ion:152 Resp: 38110

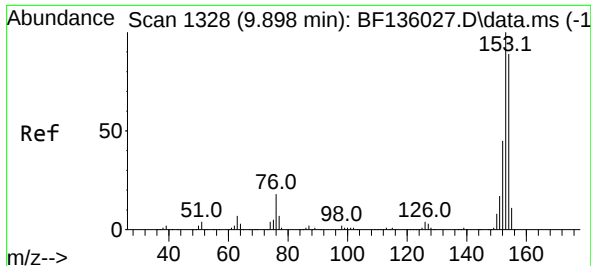
Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

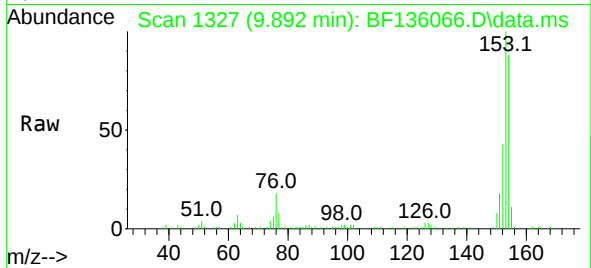
153 14.7 11.4 17.2





#52
Acenaphthene
Concen: 2.865 ng
RT: 9.892 min Scan# 1328
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

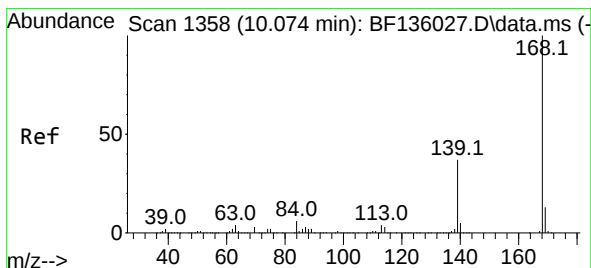
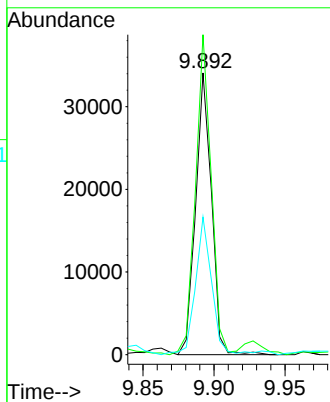
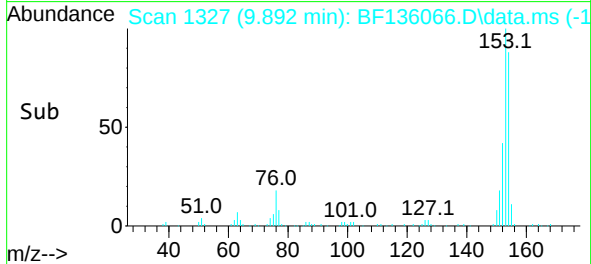
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



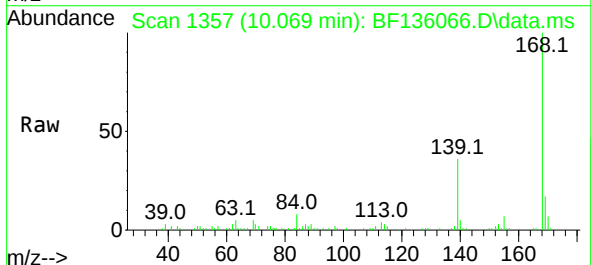
Tgt Ion:154 Resp: 2648
Ion Ratio Lower Upper
154 100
153 113.6 89.9 134.9
152 48.9 40.2 60.2

Manual Integrations
APPROVED

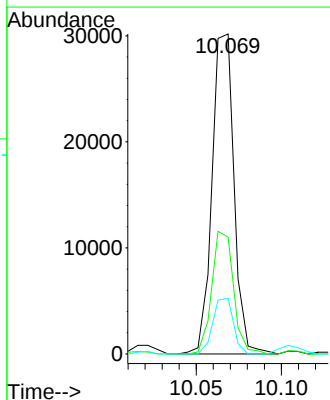
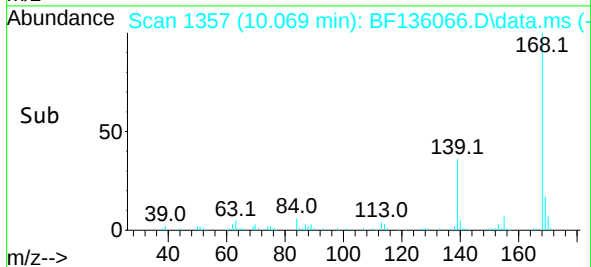
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

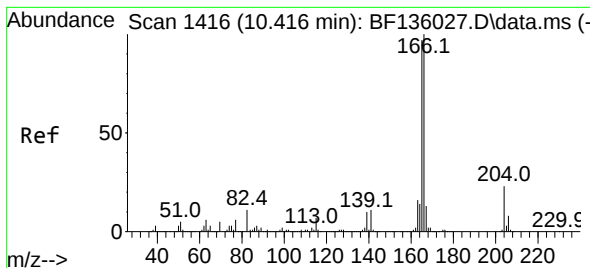


#55
Dibenzofuran
Concen: 2.008 ng
RT: 10.069 min Scan# 1357
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45



Tgt Ion:168 Resp: 27071
Ion Ratio Lower Upper
168 100
139 36.5 29.4 44.0
169 17.4 10.5 15.7#





#58

Fluorene

Concen: 4.874 ng

RT: 10.410 min Scan# 1416

Delta R.T. -0.006 min

Lab File: BF136066.D

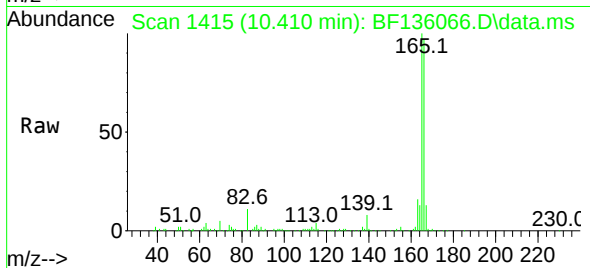
Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL



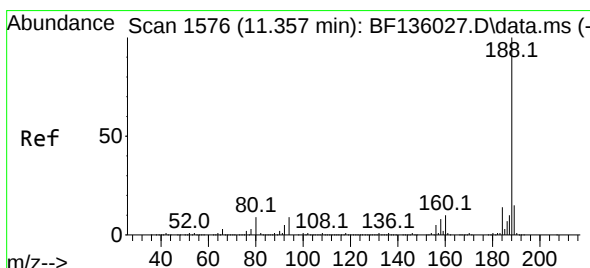
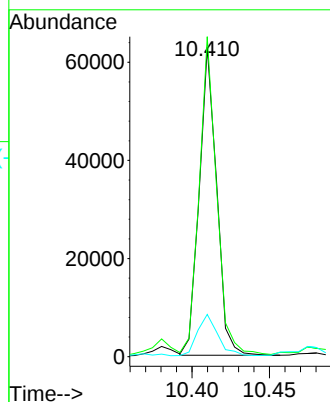
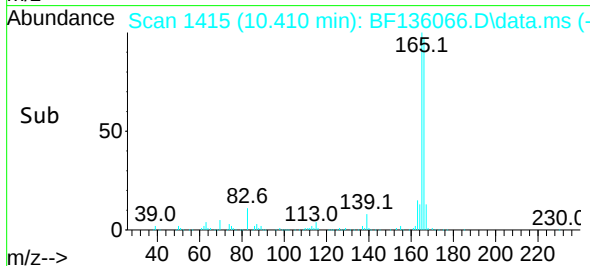
Tgt Ion:166	Resp:	49199
Ion Ratio	Lower	Upper
166	100	
165	103.5	77.7 116.5
167	13.7	10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

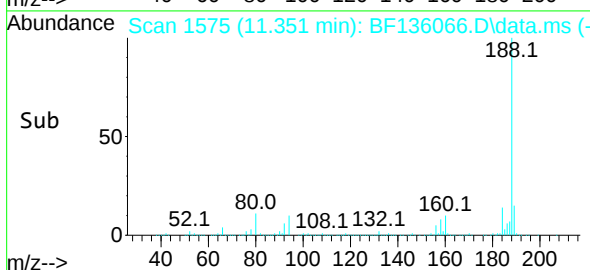
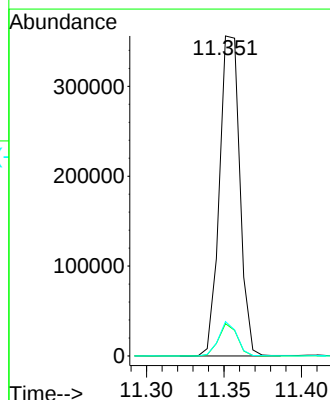
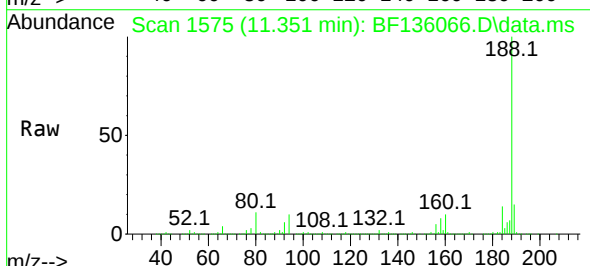
RT: 11.351 min Scan# 1575

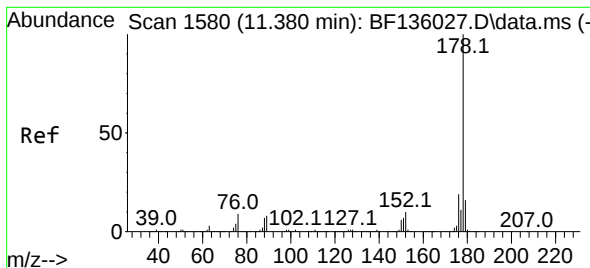
Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Tgt Ion:188	Resp:	325748
Ion Ratio	Lower	Upper
188	100	
94	10.1	7.2 10.8
80	10.8	7.4 11.0





#71

Phenanthrene

Concen: 21.720 ng

RT: 11.380 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

Tgt Ion:178 Resp: 356235

Ion Ratio Lower Upper

178 100

176 18.8 15.5 23.3

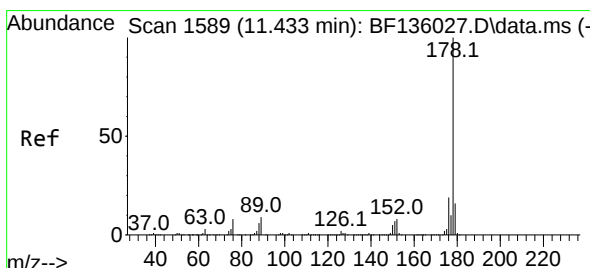
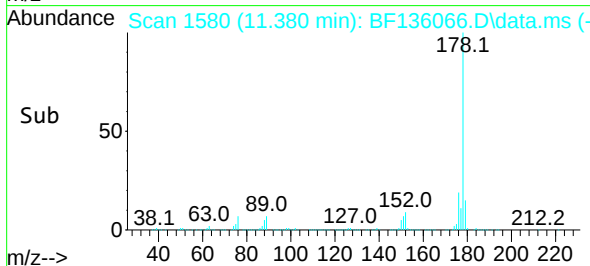
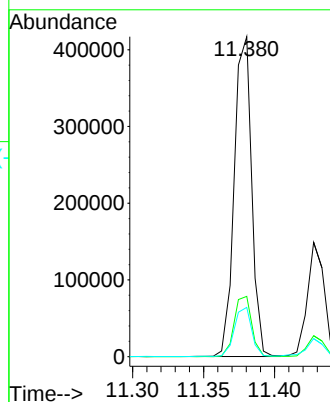
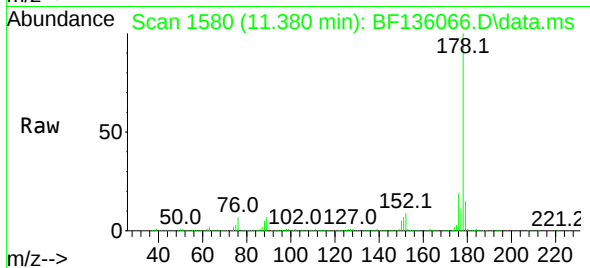
179 15.4 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#72

Anthracene

Concen: 7.192 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

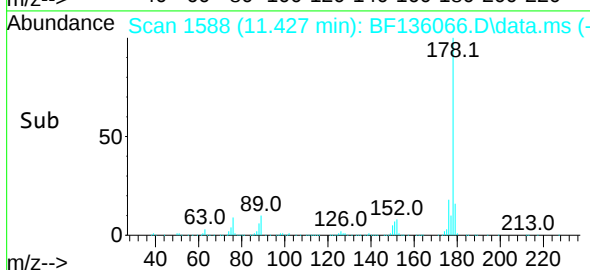
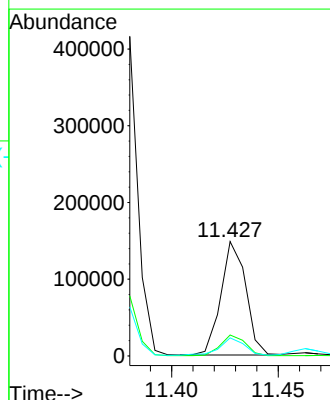
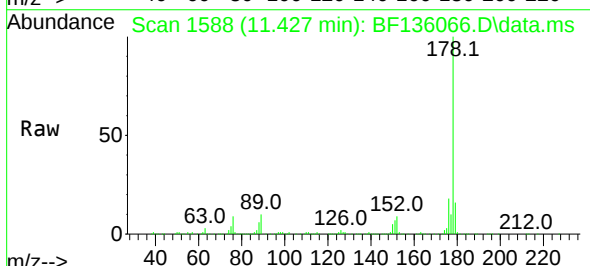
Tgt Ion:178 Resp: 120875

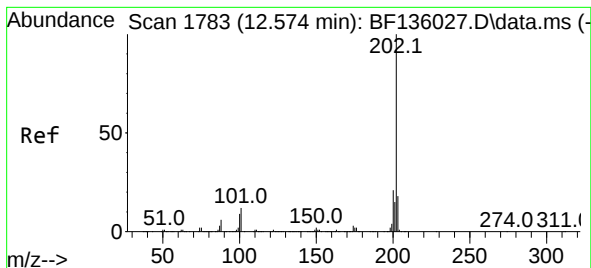
Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.4

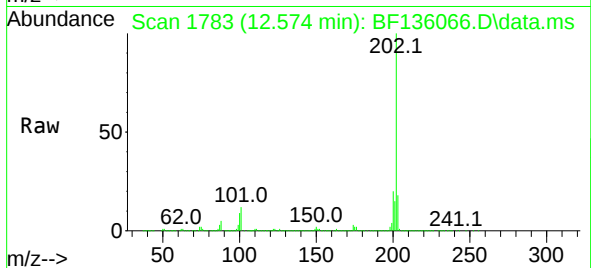
179 15.9 12.6 18.8





#75
Fluoranthene
Concen: 36.242 ng
RT: 12.574 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

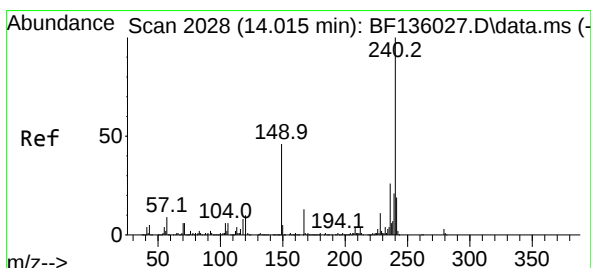
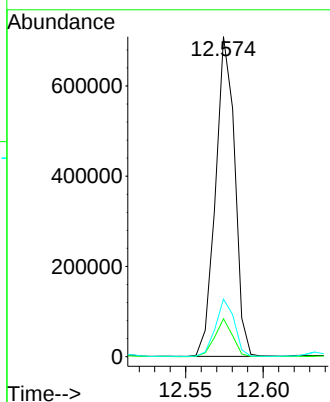
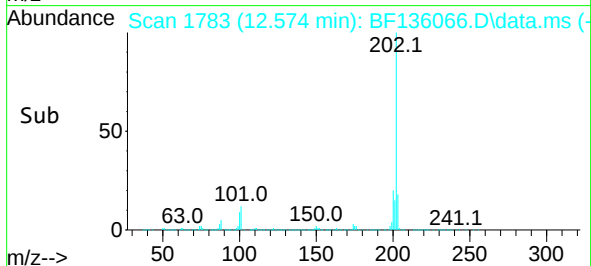
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



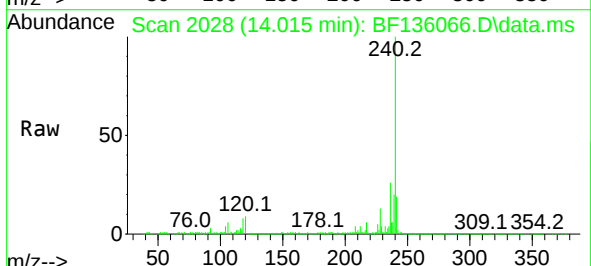
Tgt Ion:202 Resp: 610662
Ion Ratio Lower Upper
202 100
101 11.9 0.0 31.8
203 18.0 0.0 37.9

Manual Integrations
APPROVED

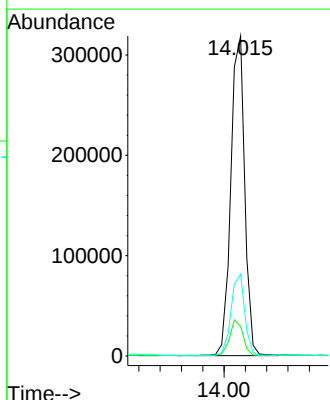
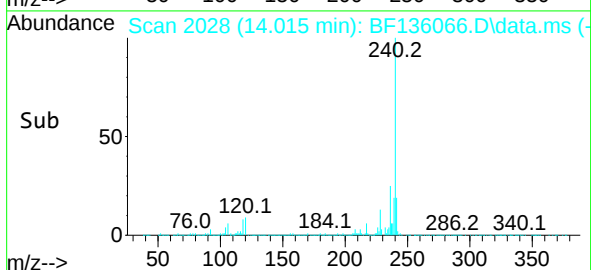
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

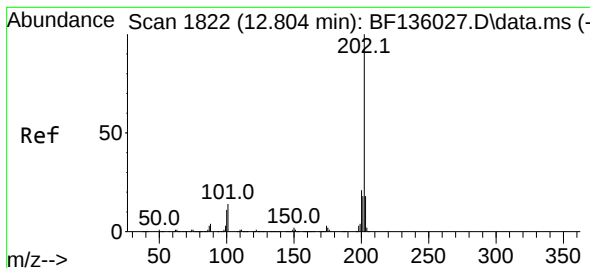


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.015 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45



Tgt Ion:240 Resp: 289218
Ion Ratio Lower Upper
240 100
120 9.3 7.6 11.4
236 25.5 20.6 31.0





#78

Pyrene

Concen: 21.662 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136066.D

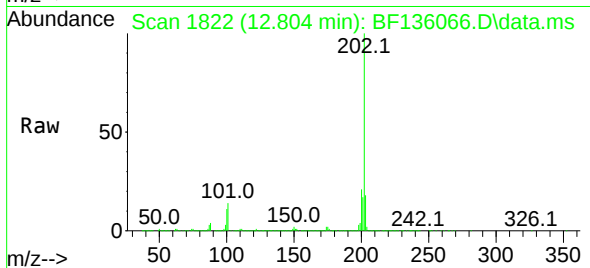
Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL



Tgt Ion:202 Resp: 552348

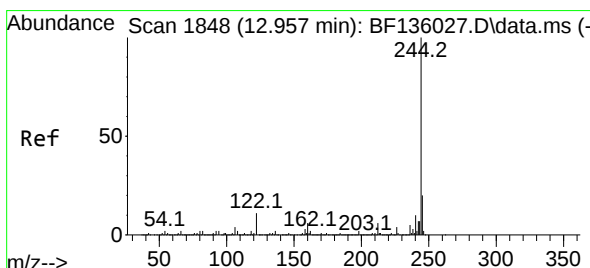
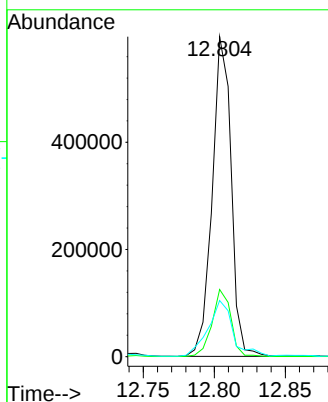
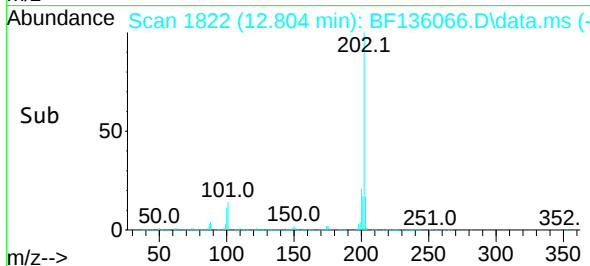
Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.5	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#79

Terphenyl-d14

Concen: 2.442 ng

RT: 12.951 min Scan# 1847

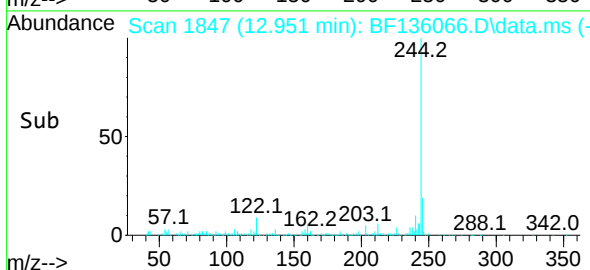
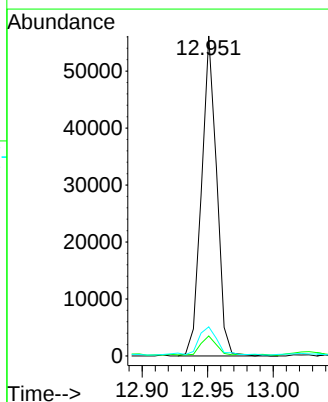
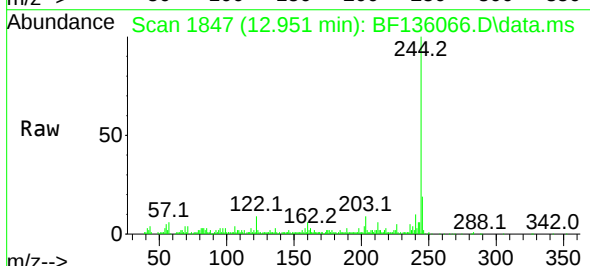
Delta R.T. -0.006 min

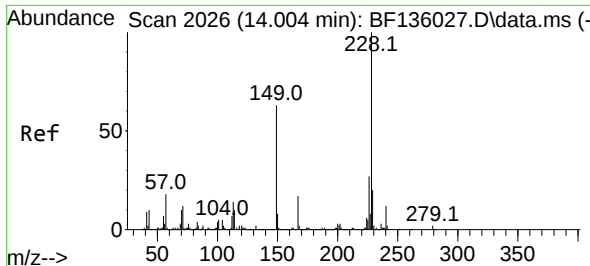
Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Tgt Ion:244 Resp: 45442

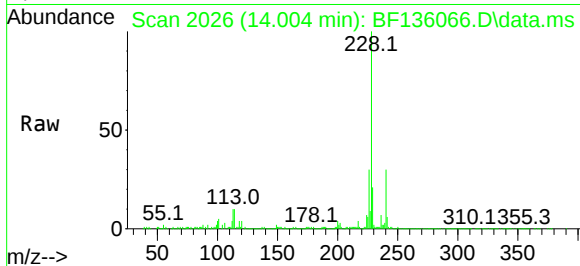
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.1	7.7
122	9.1	8.6	12.8





#81
Benzo(a)anthracene
Concen: 14.486 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

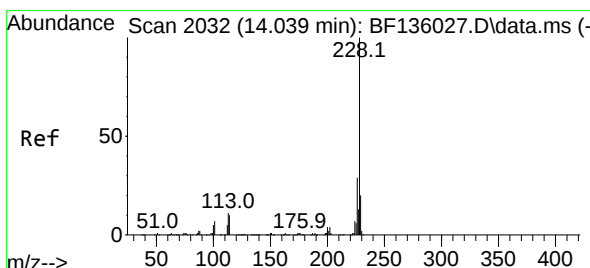
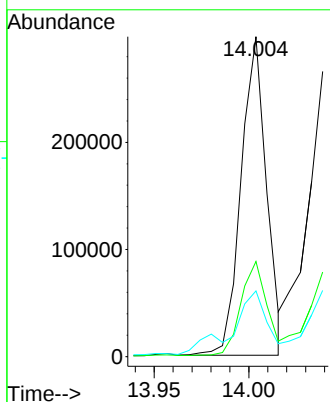
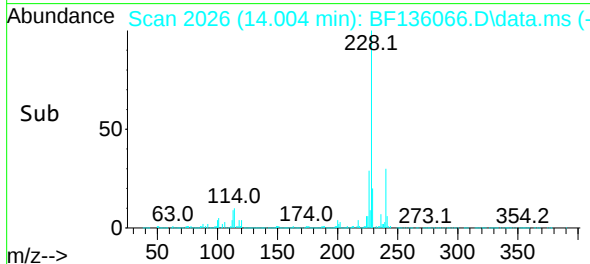
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



Tgt Ion:228 Resp: 277369
Ion Ratio Lower Upper
228 100
226 29.7 21.5 32.3
229 20.6 15.8 23.6

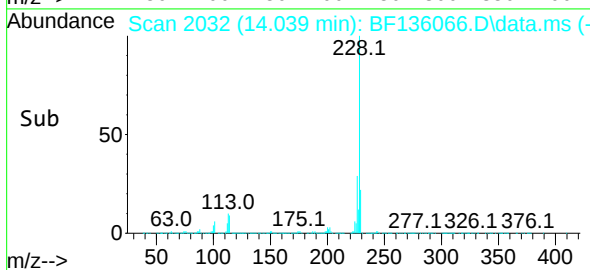
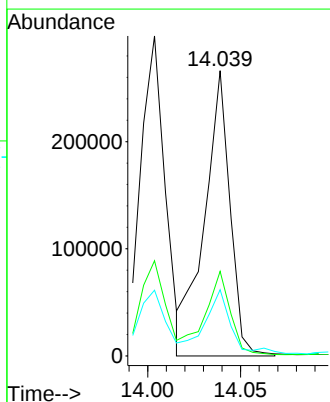
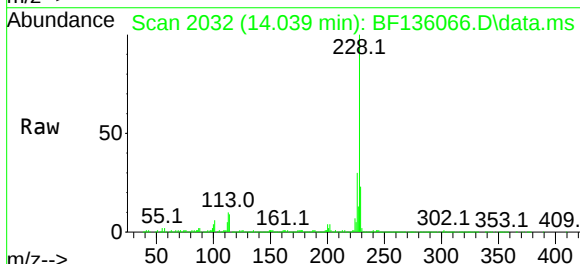
Manual Integrations
APPROVED

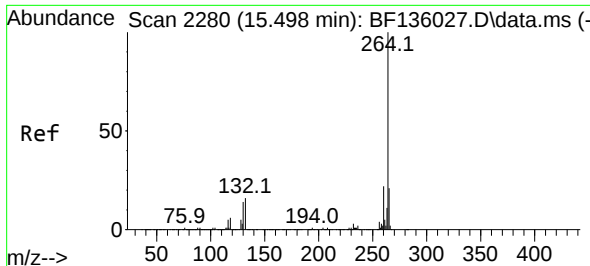
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#83
Chrysene
Concen: 13.551 ng m
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

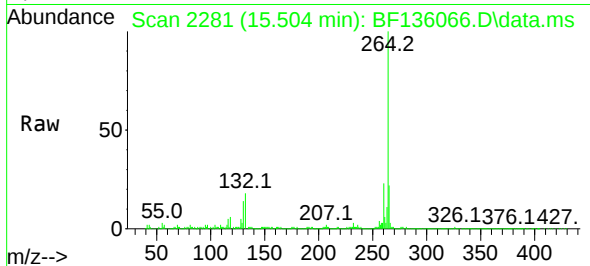
Tgt Ion:228 Resp: 255532
Ion Ratio Lower Upper
228 100
226 29.7 23.5 35.3
229 23.2 16.0 24.0





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.504 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BF136066.D
 Acq: 31 Oct 2023 22:45

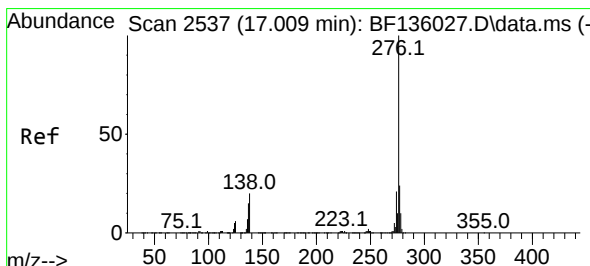
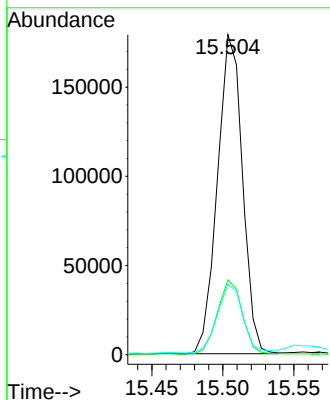
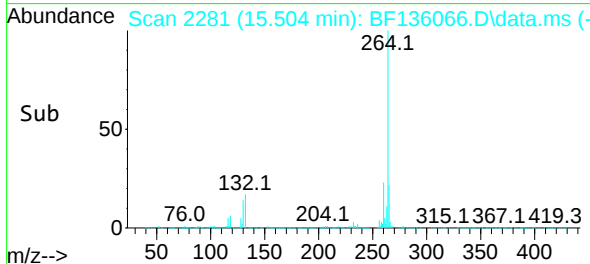
Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)DL



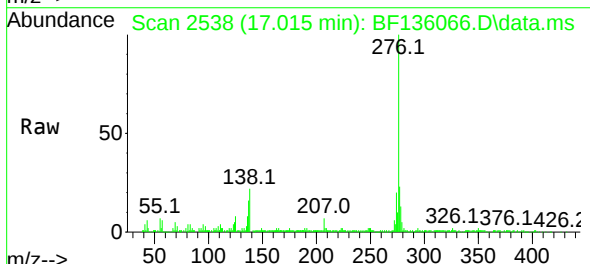
Tgt Ion:264 Resp: 21904
 Ion Ratio Lower Upper
 264 100
 260 23.4 17.9 26.9
 265 22.1 16.8 25.2

Manual Integrations
 APPROVED

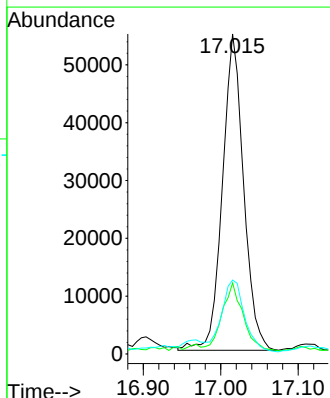
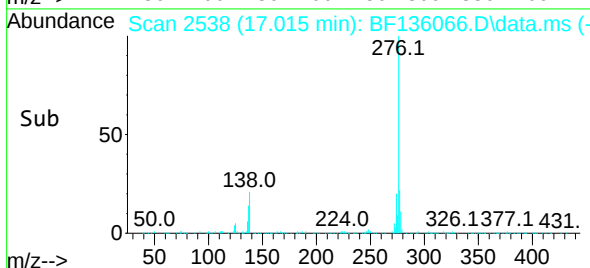
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

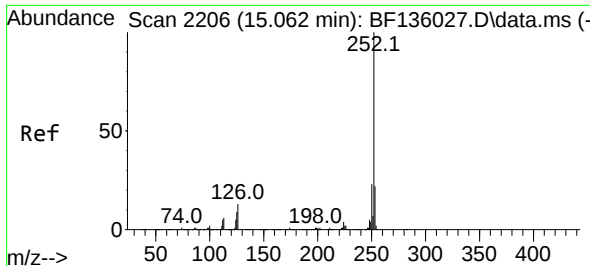


#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.274 ng
 RT: 17.015 min Scan# 2538
 Delta R.T. 0.006 min
 Lab File: BF136066.D
 Acq: 31 Oct 2023 22:45



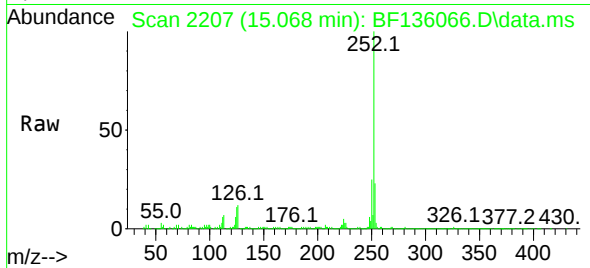
Tgt Ion:276 Resp: 104133
 Ion Ratio Lower Upper
 276 100
 138 21.4 20.4 30.6
 277 24.8 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 22.469 ng m
RT: 15.068 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

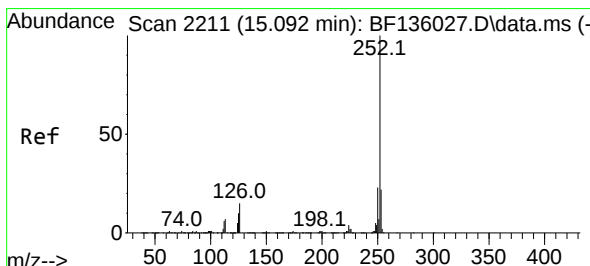
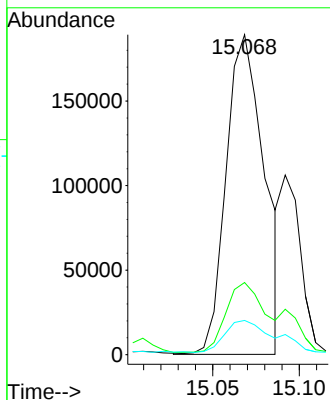
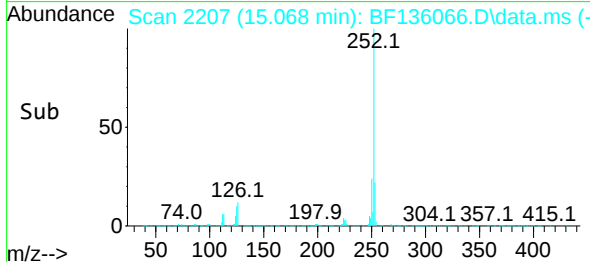
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



Tgt Ion:252 Resp: 291227
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 10.7 7.5 11.3

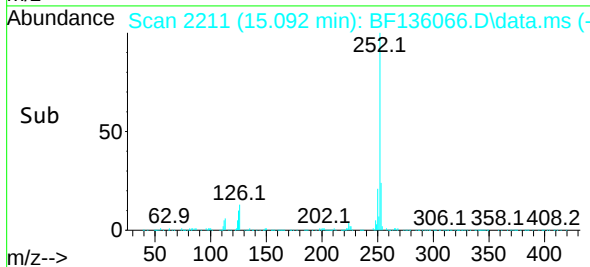
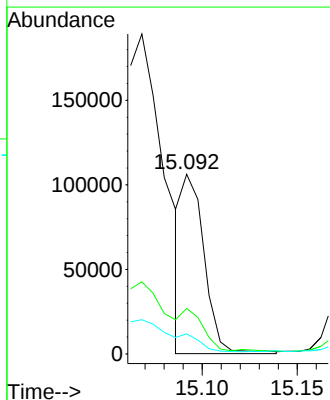
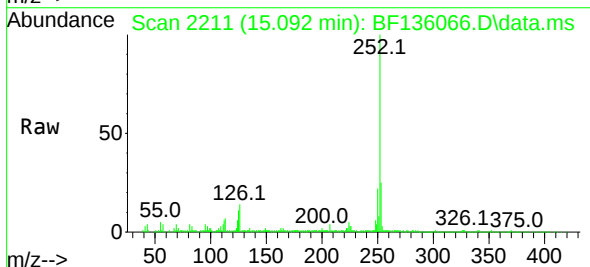
Manual Integrations
APPROVED

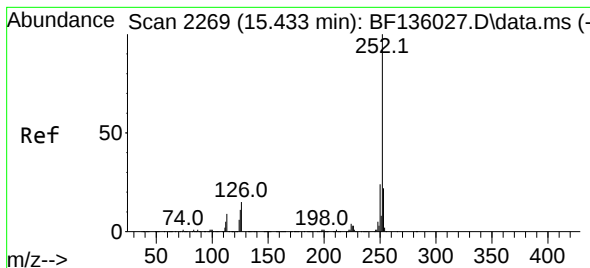
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 6.777 ng m
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:252 Resp: 86908
Ion Ratio Lower Upper
252 100
253 25.3 17.4 26.0
125 11.3 8.0 12.0





#90

Benzo(a)pyrene

Concen: 16.688 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

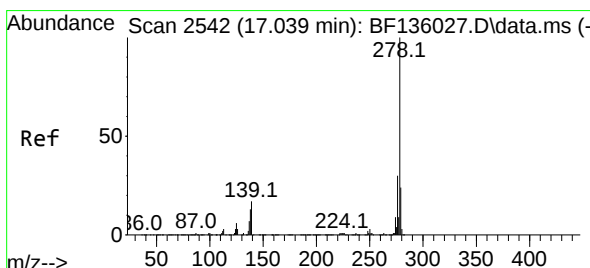
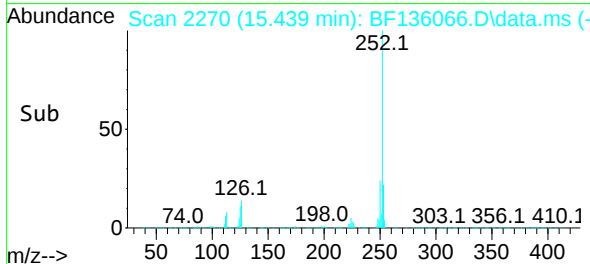
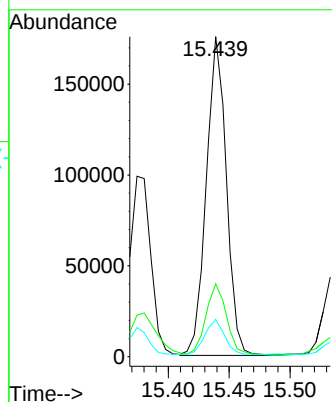
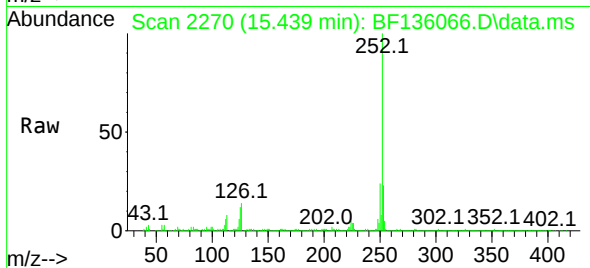
B-1(0-5)DL

Tgt Ion:252 Resp: 200970
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.3 25.9
 125 11.7 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.242 ng m

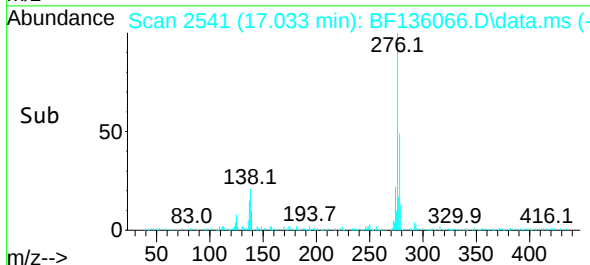
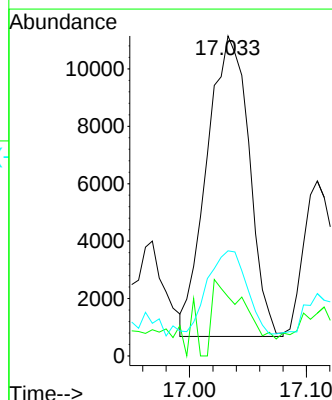
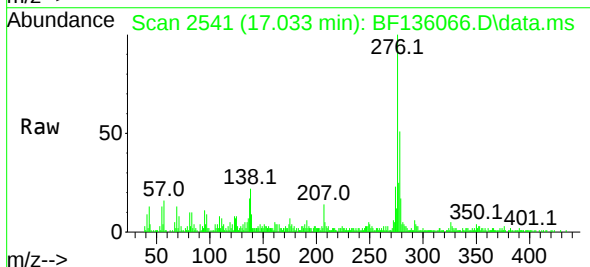
RT: 17.033 min Scan# 2541

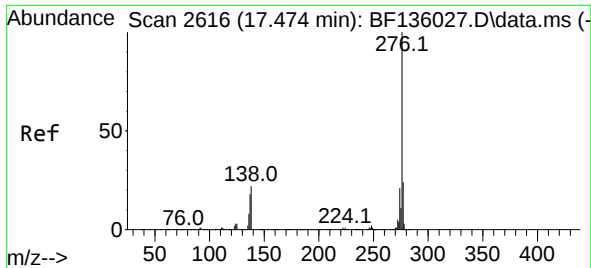
Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

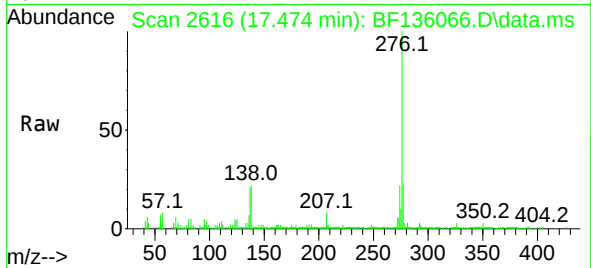
Tgt Ion:278 Resp: 26292
 Ion Ratio Lower Upper
 278 100
 139 18.5 13.7 20.5
 279 32.9 19.0 28.6#





#92
Benzo(g,h,i)perylene
Concen: 9.617 ng
RT: 17.474 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL



Tgt Ion:276 Resp: 95500
Ion Ratio Lower Upper
276 100
277 23.1 19.0 28.4
138 21.6 17.4 26.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

