

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136058.D
 Acq On : 31 Oct 2023 18:36
 Operator : CG\JU
 Sample : 04974-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Quant Time: Nov 01 00:35:40 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	136426	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	466222	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	203457	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	364445	20.000	ng	0.00
76) Chrysene-d12	14.015	240	326661	20.000	ng	0.00
86) Perylene-d12	15.504	264	267934	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	1204125	138.696	ng	0.02
7) Phenol-d6	6.463	99	1415989	130.904	ng	0.00
23) Nitrobenzene-d5	7.386	82	830424	107.374	ng	0.00
42) 2,4,6-Tribromophenol	10.657	330	323529	148.978	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	1347363	105.567	ng	0.00
79) Terphenyl-d14	12.957	244	1594062	75.835	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.892	154	28024	2.471	ng	98
58) Fluorene	10.410	166	25058	2.024	ng	98
71) Phenanthrene	11.380	178	415825	22.661	ng	98
72) Anthracene	11.427	178	96330	5.123	ng	98
73) Carbazole	11.586	167	37125	2.272	ng	99
75) Fluoranthene	12.574	202	607320	32.217	ng	99
78) Pyrene	12.804	202	508521	17.657	ng	100
81) Benzo(a)anthracene	14.004	228	271178	12.540	ng	99
83) Chrysene	14.039	228	206067	9.676	ng	98
87) Indeno(1,2,3-cd)pyrene	17.009	276	65301	3.729	ng	96
88) Benzo(b)fluoranthene	15.068	252	236521m	14.919	ng	
89) Benzo(k)fluoranthene	15.092	252	61203m	3.902	ng	
90) Benzo(a)pyrene	15.439	252	135478	9.197	ng	98
92) Benzo(g,h,i)perylene	17.468	276	57156	6.184	ng	99

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

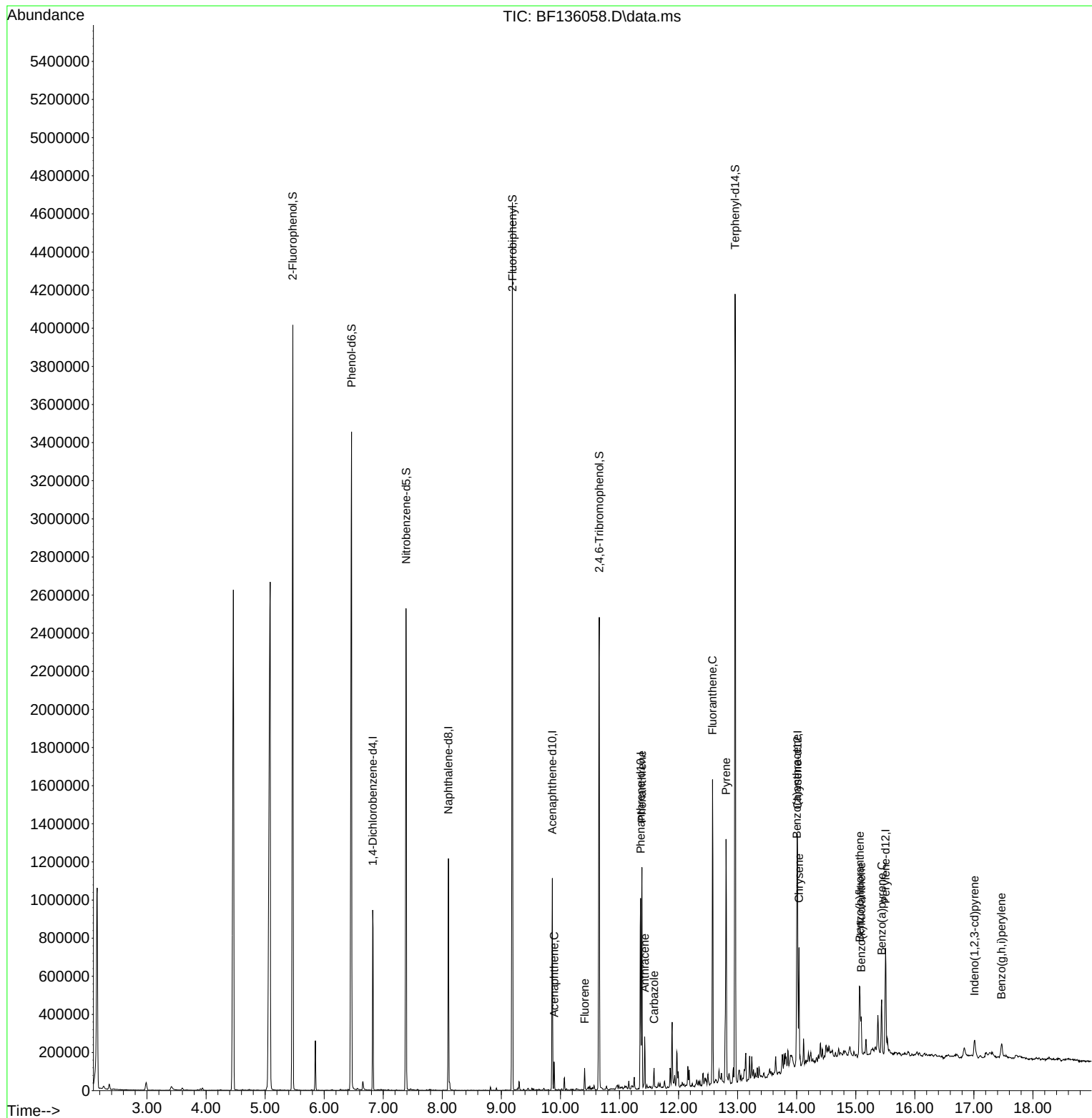
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136058.D
Acq On : 31 Oct 2023 18:36
Operator : CG\JU
Sample : 04974-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

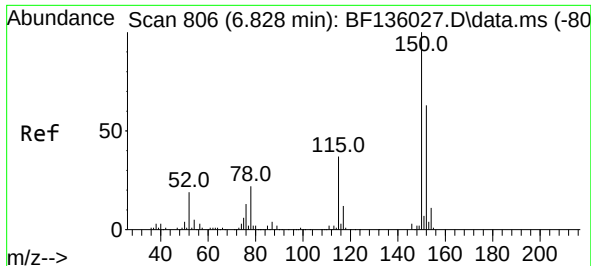
Instrument :
BNA_F
ClientSampleId :
TP-4

Quant Time: Nov 01 00:35:40 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
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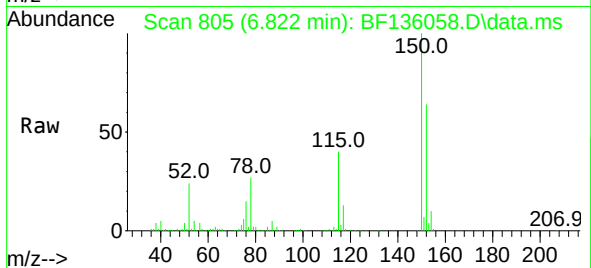
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

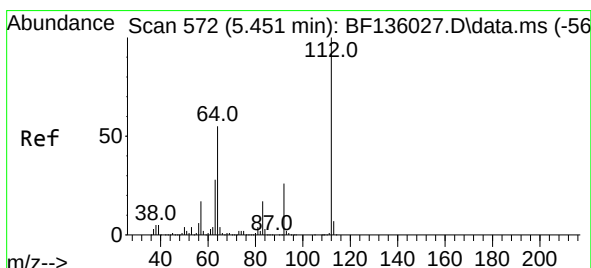
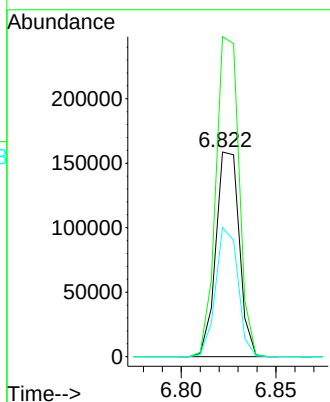
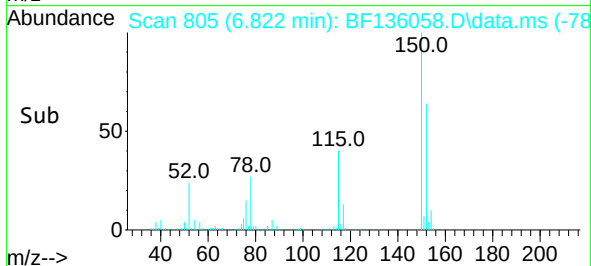
Instrument :
BNA_F
ClientSampleId :
TP-4



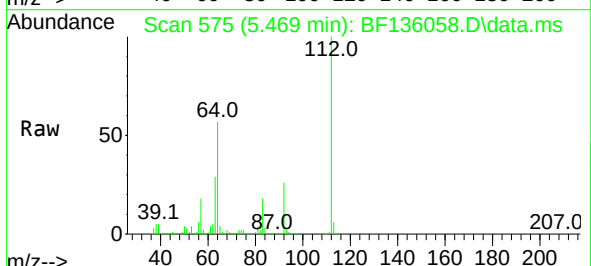
Tgt Ion:152 Resp: 136420
Ion Ratio Lower Upper
152 100
150 156.3 126.4 189.6
115 63.1 47.0 70.4

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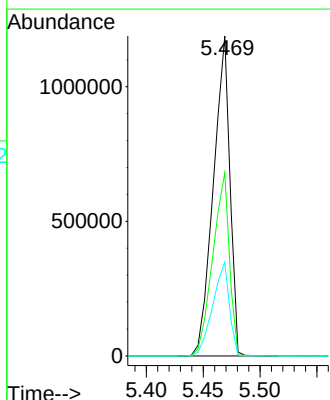
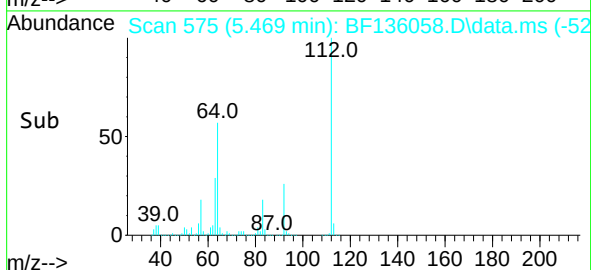
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

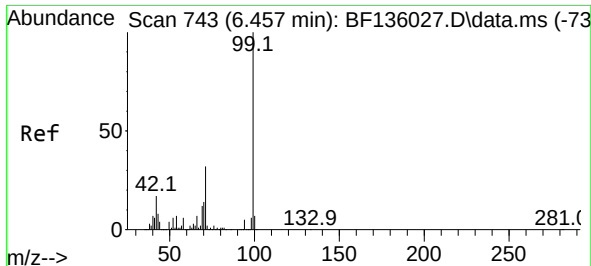


#5
2-Fluorophenol
Concen: 138.696 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.018 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



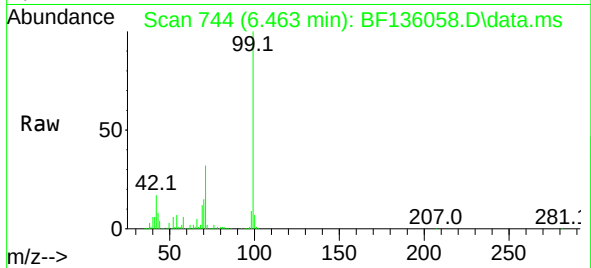
Tgt Ion:112 Resp: 1204125
Ion Ratio Lower Upper
112 100
64 57.2 43.9 65.9
63 29.3 22.4 33.6





#7
Phenol-d6
Concen: 130.904 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

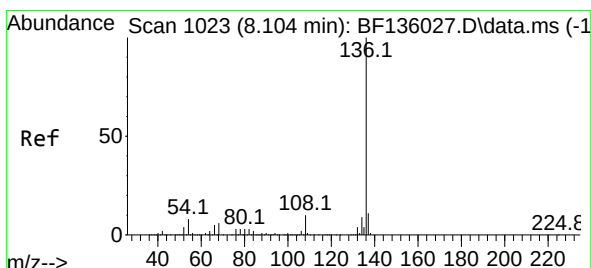
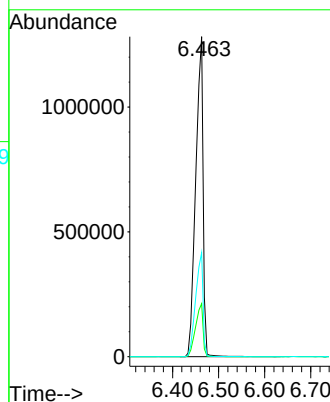
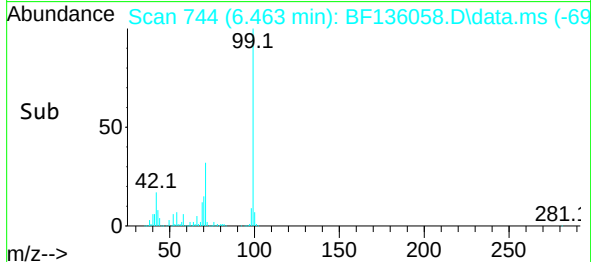
Instrument :
BNA_F
ClientSampleId :
TP-4



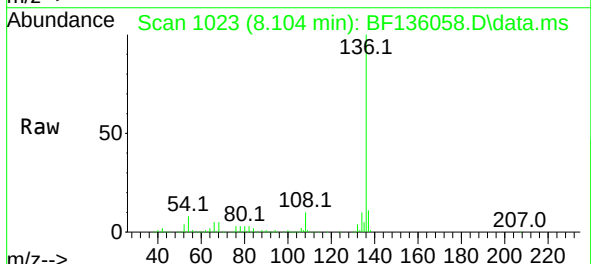
Tgt Ion: 99 Resp: 1415989
Ion Ratio Lower Upper
99 100
42 16.5 13.7 20.5
71 32.5 25.9 38.9

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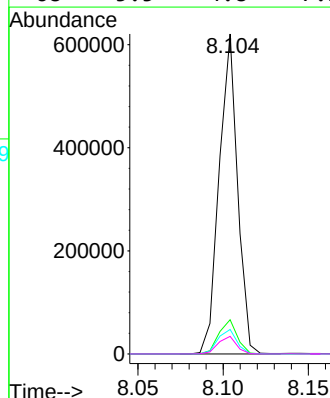
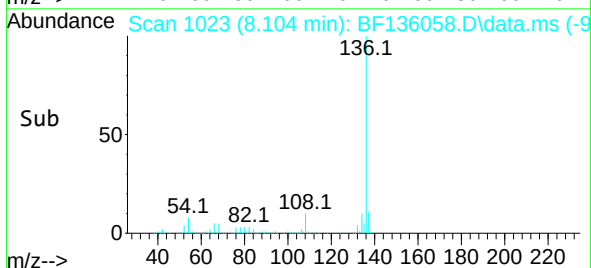
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

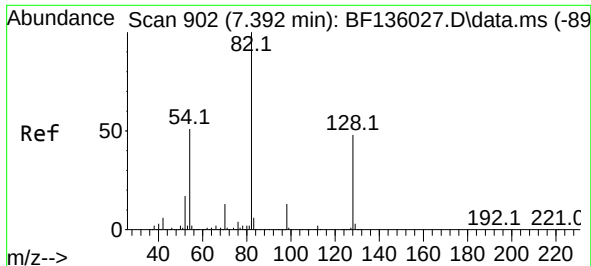


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



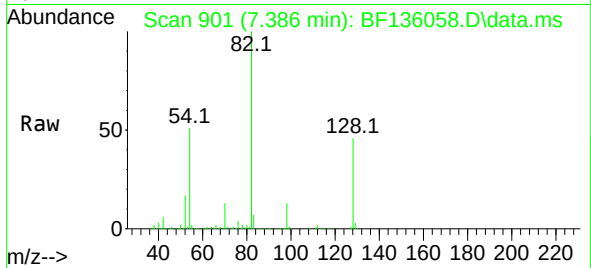
Tgt Ion:136 Resp: 466222
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.6 6.6 9.8
68 5.5 4.8 7.2





#23
Nitrobenzene-d5
Concen: 107.374 ng
RT: 7.386 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

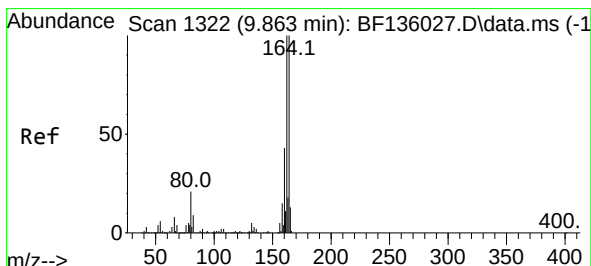
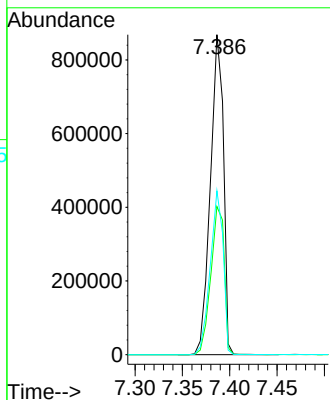
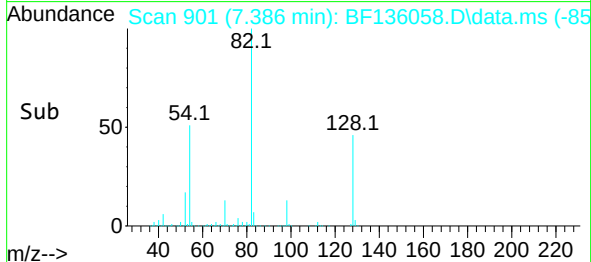
Instrument :
BNA_F
ClientSampleId :
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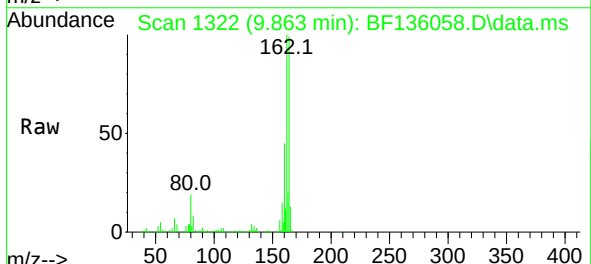
Tgt Ion: 82 Resp: 830424
Ion Ratio Lower Upper
82 100
128 46.3 38.6 57.8
54 51.2 40.8 61.2

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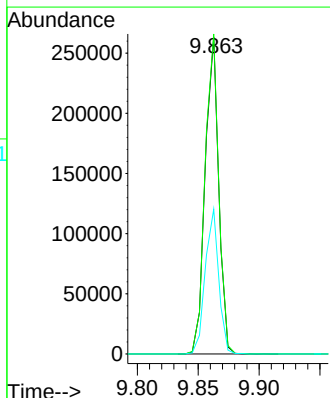
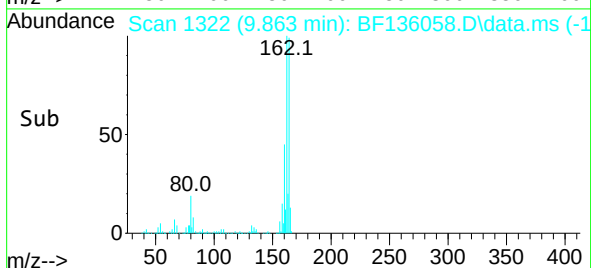
Reviewed By :Yogesh Patel 11/01/2023
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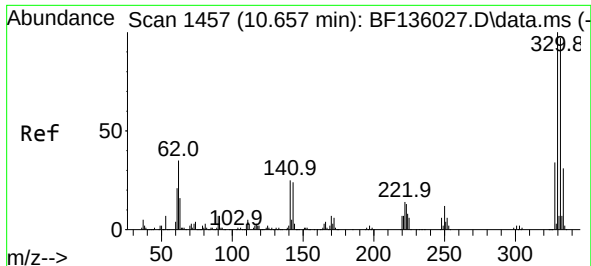


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



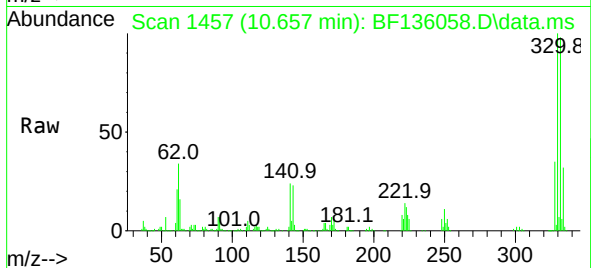
Tgt Ion:164 Resp: 203457
Ion Ratio Lower Upper
164 100
162 100.9 80.1 120.1
160 45.6 34.8 52.2





#42
2,4,6-Tribromophenol
Concen: 148.978 ng
RT: 10.657 min Scan# 1457
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

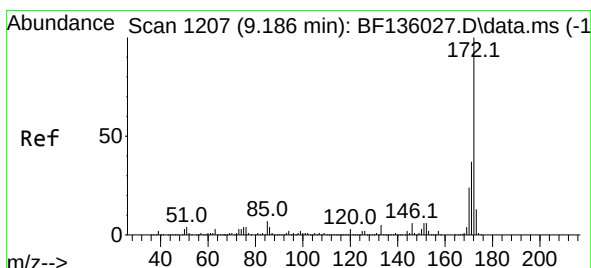
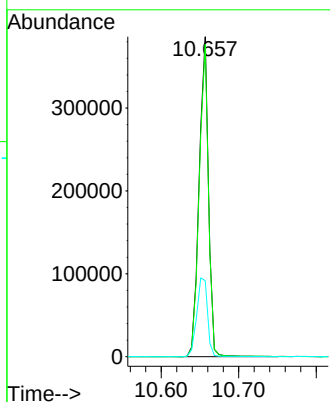
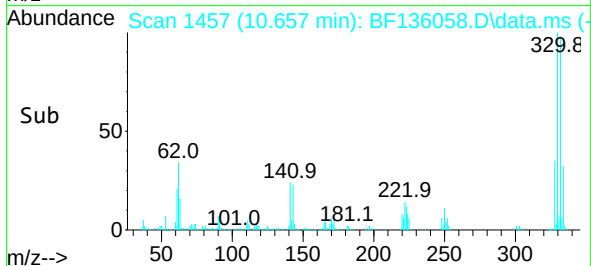
Instrument :
BNA_F
ClientSampleId :
TP-4



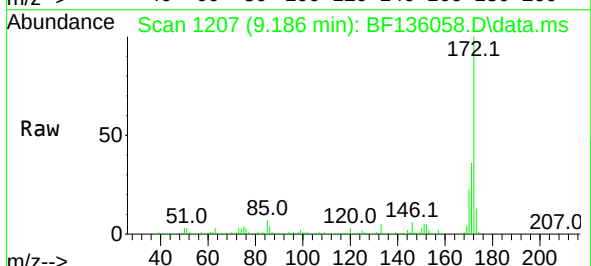
Tgt Ion:330 Resp: 323529
Ion Ratio Lower Upper
330 100
332 96.7 76.9 115.3
141 28.3 23.2 34.8

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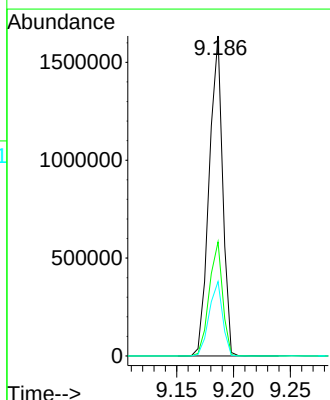
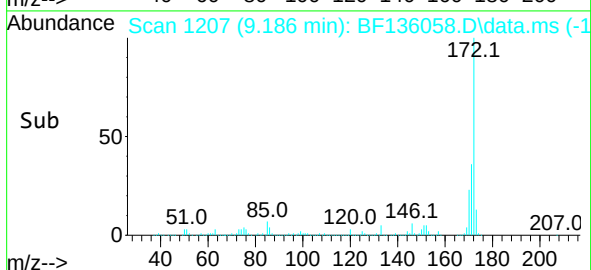
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

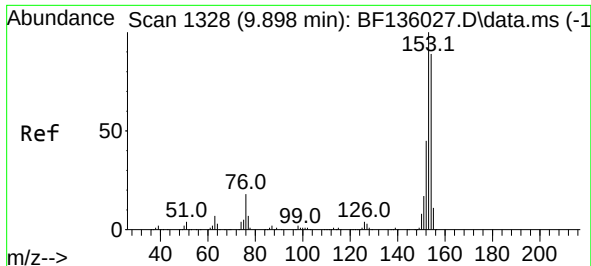


#45
2-Fluorobiphenyl
Concen: 105.567 ng
RT: 9.186 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



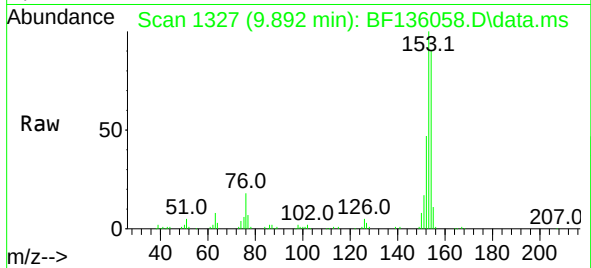
Tgt Ion:172 Resp: 1347363
Ion Ratio Lower Upper
172 100
171 35.6 29.4 44.0
170 23.2 19.3 28.9





#52
Acenaphthene
Concen: 2.471 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

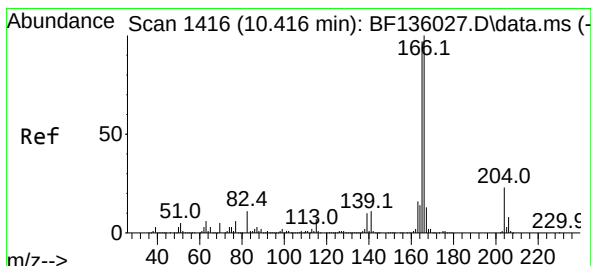
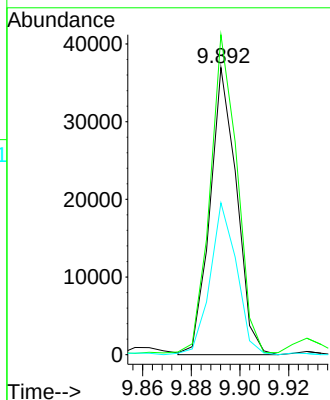
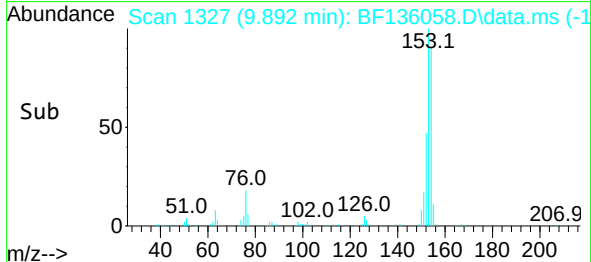
Instrument :
BNA_F
ClientSampleId :
TP-4



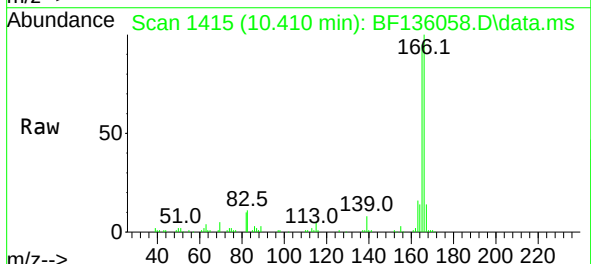
Tgt Ion:154 Resp: 28024
Ion Ratio Lower Upper
154 100
153 111.4 89.9 134.9
152 52.9 40.2 60.2

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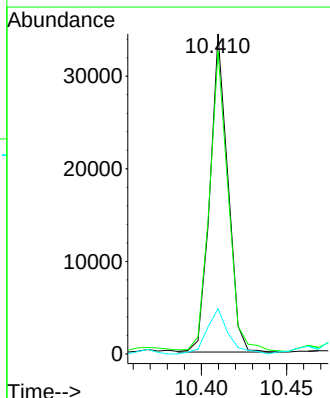
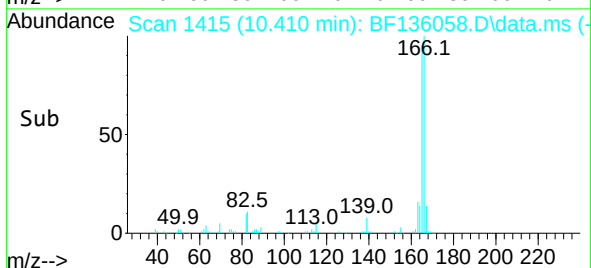
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

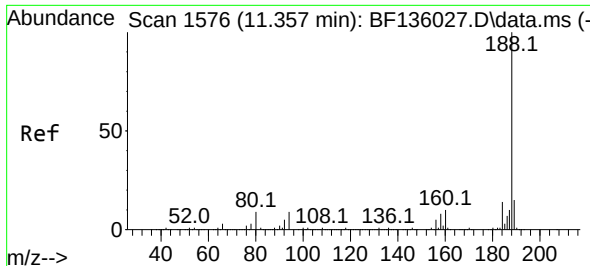


#58
Fluorene
Concen: 2.024 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



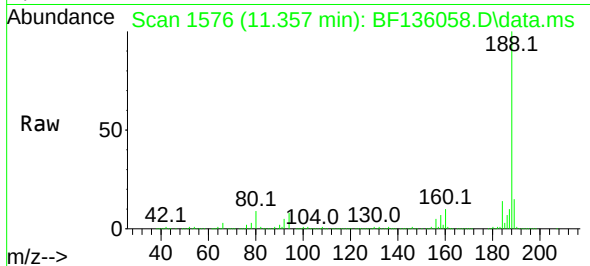
Tgt Ion:166 Resp: 25058
Ion Ratio Lower Upper
166 100
165 94.7 77.7 116.5
167 14.1 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

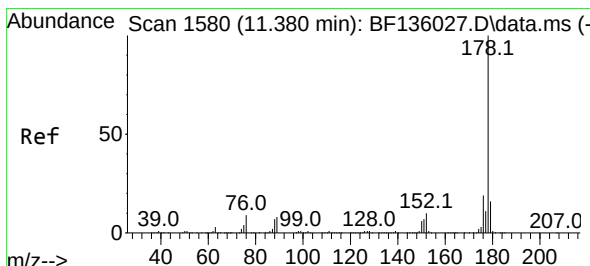
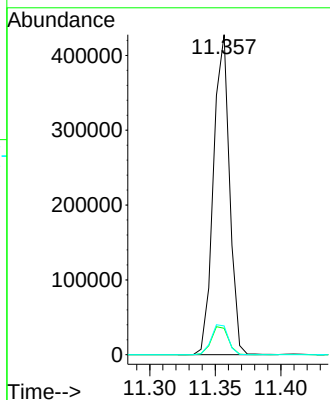
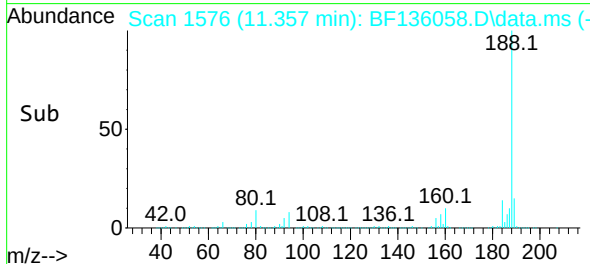
Instrument :
BNA_F
ClientSampleId :
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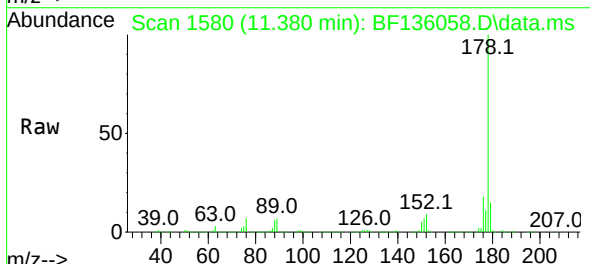
Tgt Ion:188 Resp: 364445
Ion Ratio Lower Upper
188 100
94 8.3 7.2 10.8
80 9.0 7.4 11.0

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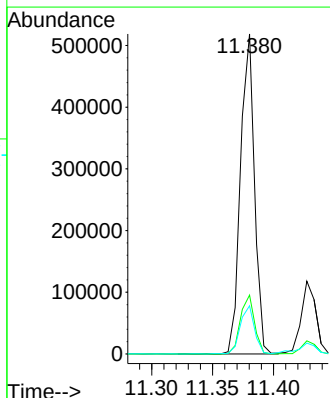
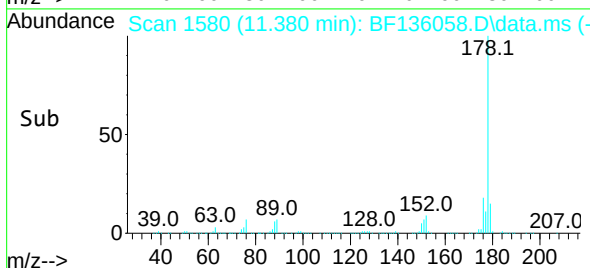
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

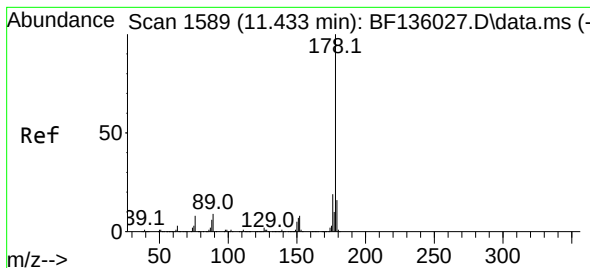


#71
Phenanthrene
Concen: 22.661 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36



Tgt Ion:178 Resp: 415825
Ion Ratio Lower Upper
178 100
176 18.4 15.5 23.3
179 15.1 12.9 19.3





#72

Anthracene

Concen: 5.123 ng

RT: 11.427 min Scan# 1589

Delta R.T. -0.006 min

Lab File: BF136058.D

Acq: 31 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

TP-4

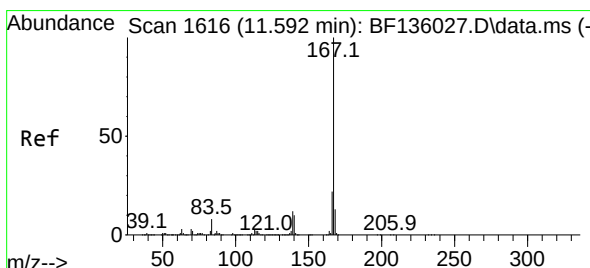
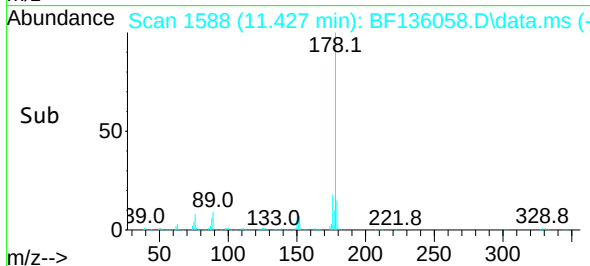
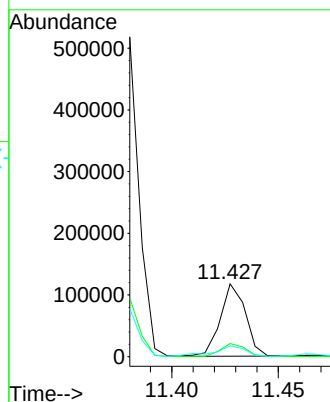
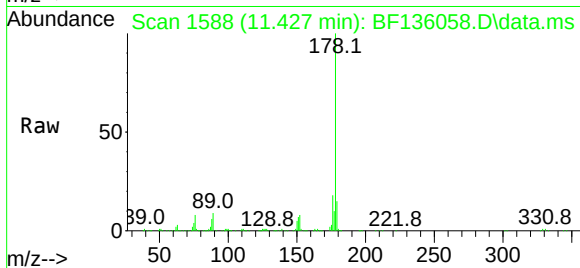
Tgt Ion:178 Resp: 96330
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.0 22.4
 179 14.9 12.6 18.8

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#73

Carbazole

Concen: 2.272 ng

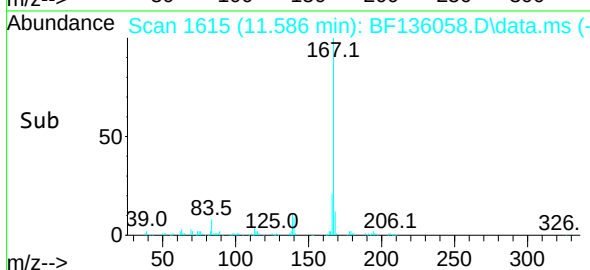
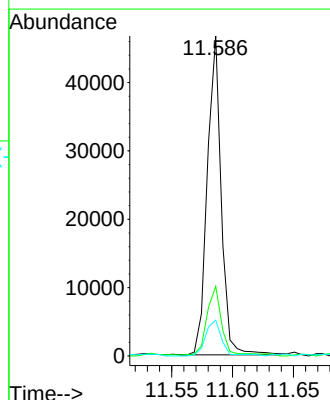
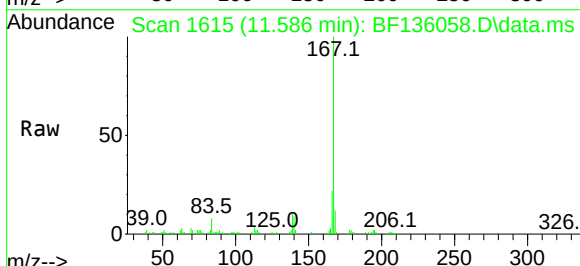
RT: 11.586 min Scan# 1615

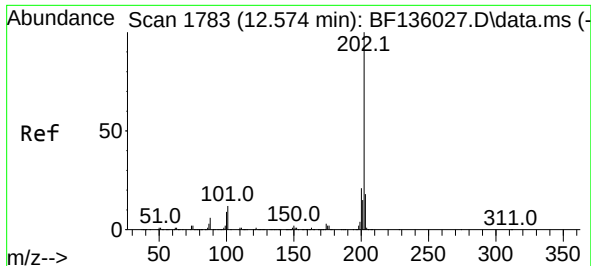
Delta R.T. -0.006 min

Lab File: BF136058.D

Acq: 31 Oct 2023 18:36

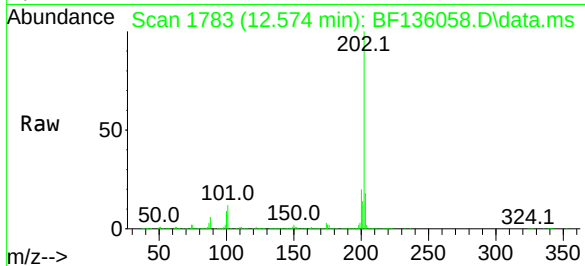
Tgt Ion:167 Resp: 37125
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.2 25.8
 139 11.2 9.9 14.9





#75
Fluoranthene
Concen: 32.217 ng
RT: 12.574 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

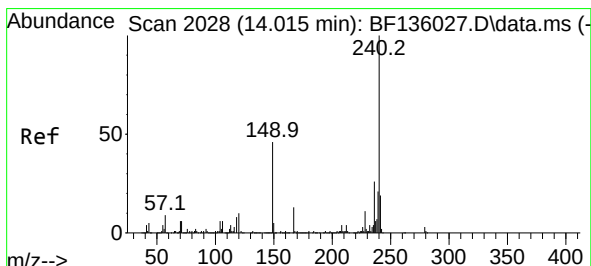
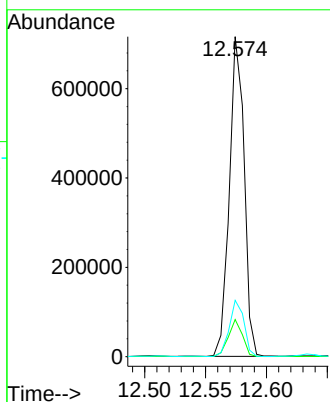
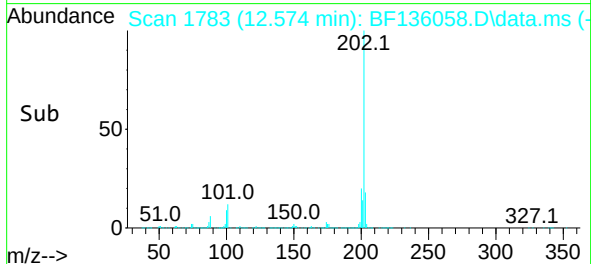
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:202 Resp: 607320
Ion Ratio Lower Upper
202 100
101 11.6 0.0 31.8
203 17.6 0.0 37.9

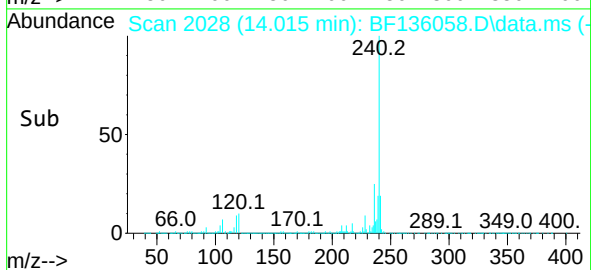
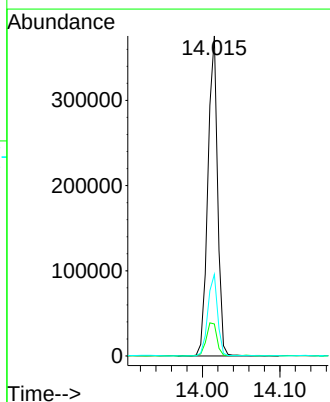
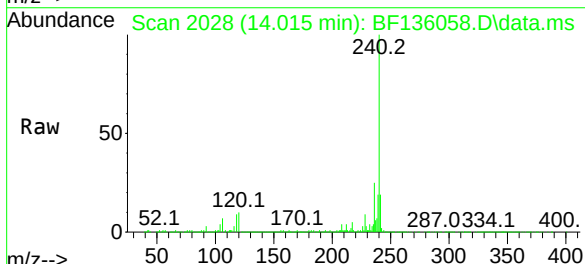
Manual Integrations
APPROVED

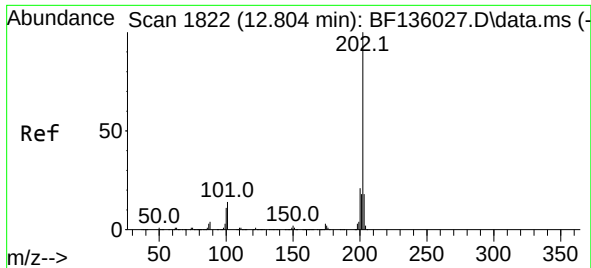
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.015 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

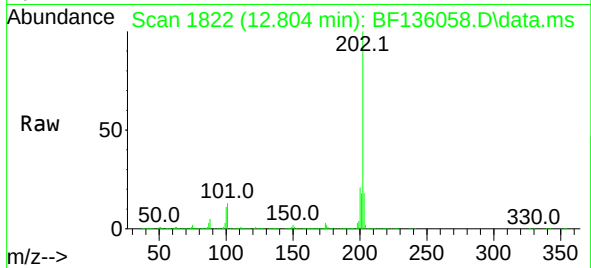
Tgt Ion:240 Resp: 326661
Ion Ratio Lower Upper
240 100
120 10.0 7.6 11.4
236 25.5 20.6 31.0





#78
Pyrene
Concen: 17.657 ng
RT: 12.804 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

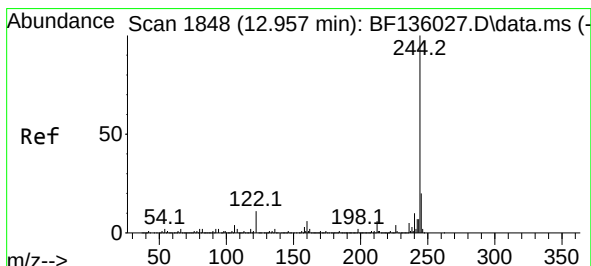
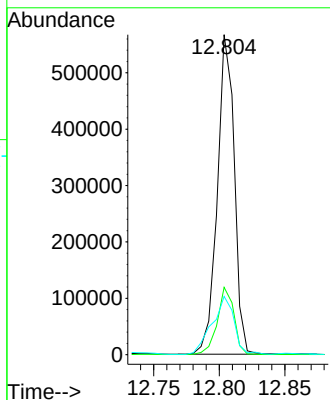
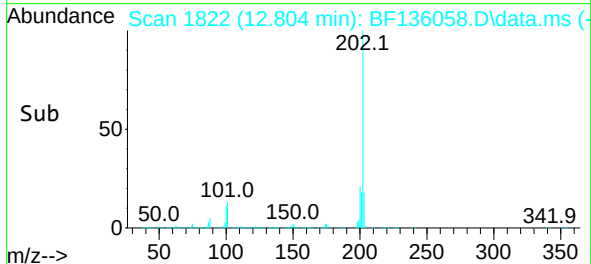
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:202 Resp: 50852
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.2 14.4 21.6

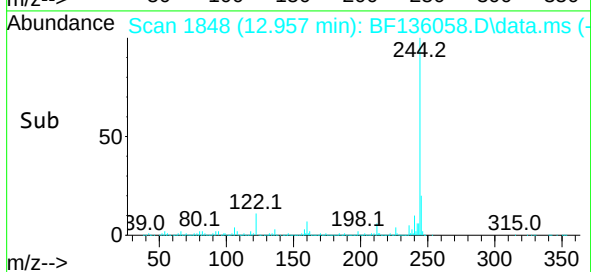
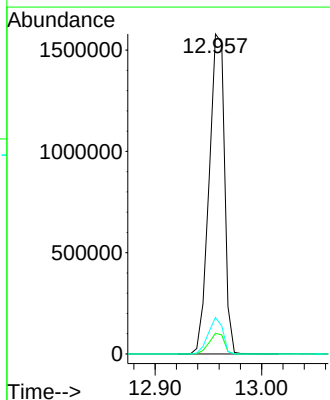
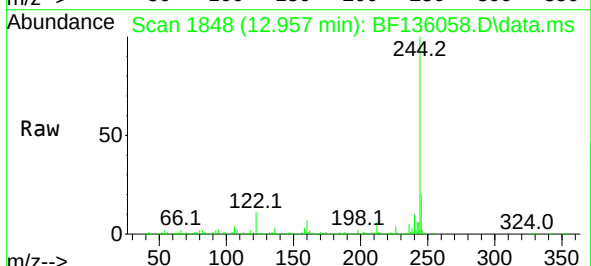
Manual Integrations
APPROVED

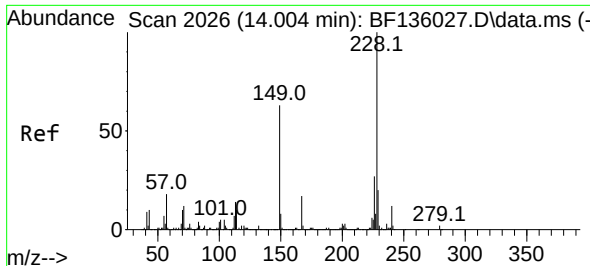
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#79
Terphenyl-d14
Concen: 75.835 ng
RT: 12.957 min Scan# 1848
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

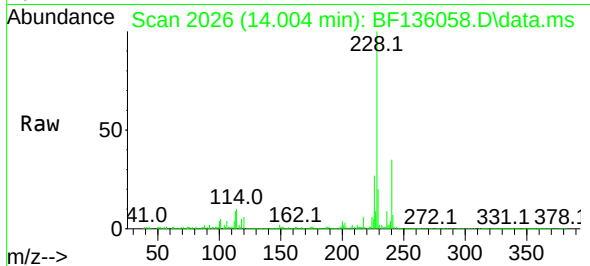
Tgt Ion:244 Resp: 1594062
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 11.4 8.6 12.8





#81
Benzo(a)anthracene
Concen: 12.540 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

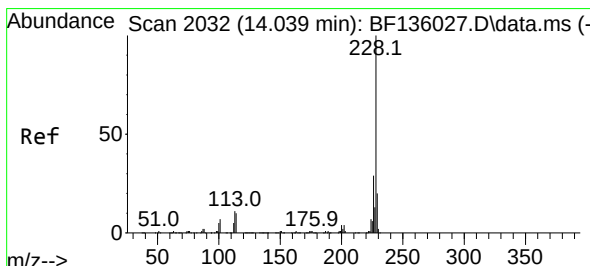
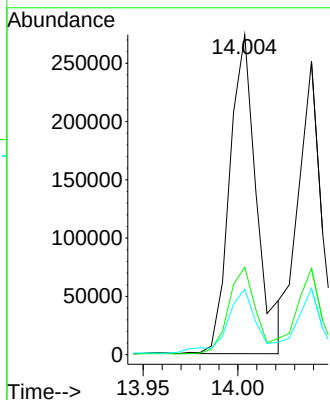
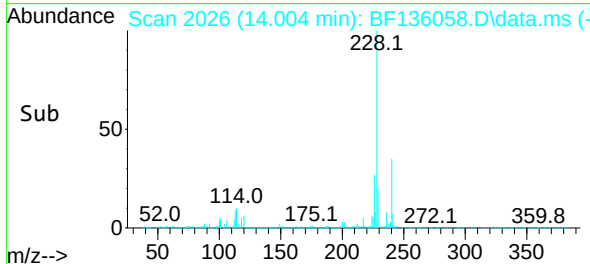
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:228 Resp: 271178
Ion Ratio Lower Upper
228 100
226 27.4 21.5 32.3
229 20.5 15.8 23.6

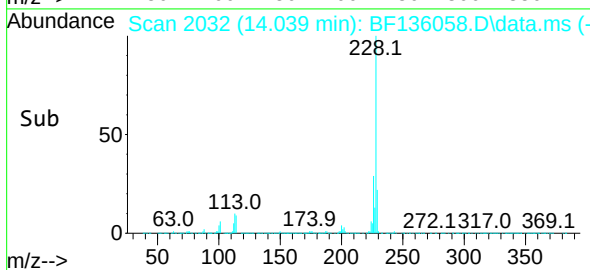
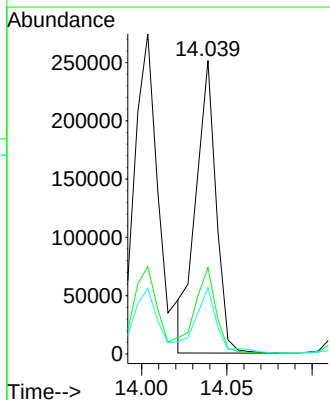
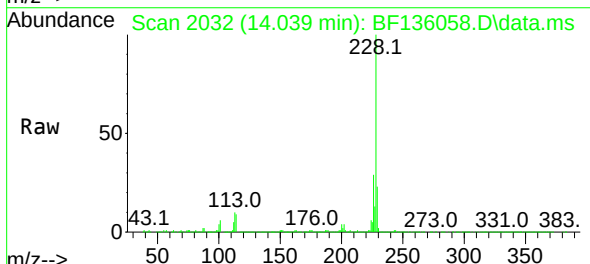
Manual Integrations
APPROVED

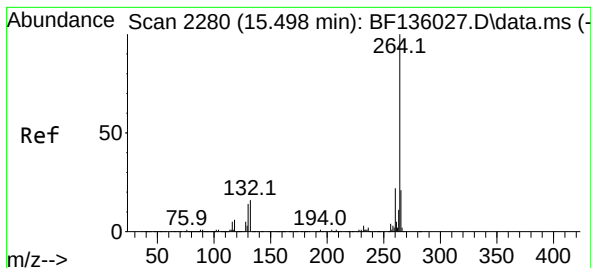
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#83
Chrysene
Concen: 9.676 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

Tgt Ion:228 Resp: 206067
Ion Ratio Lower Upper
228 100
226 29.4 23.5 35.3
229 22.6 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: BF136058.D

Acq: 31 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

TP-4

Tgt Ion:264 Resp: 267934

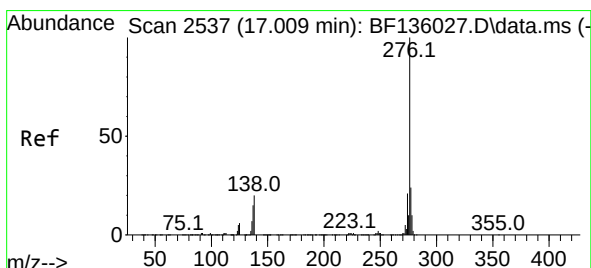
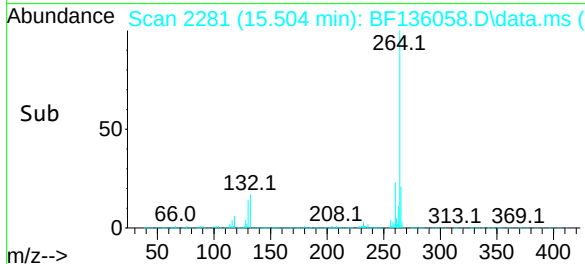
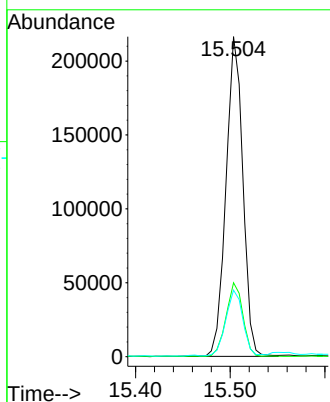
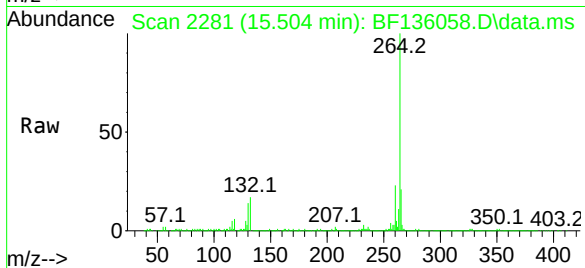
Ion	Ratio	Lower	Upper
264	100		
260	23.1	17.9	26.9
265	20.8	16.8	25.2

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: 3.729 ng

RT: 17.009 min Scan# 2537

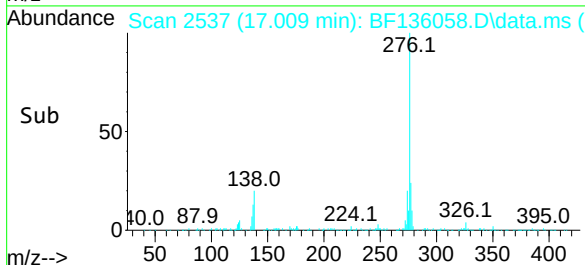
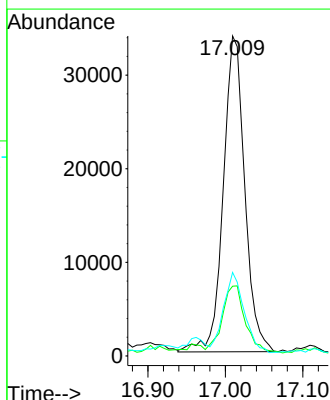
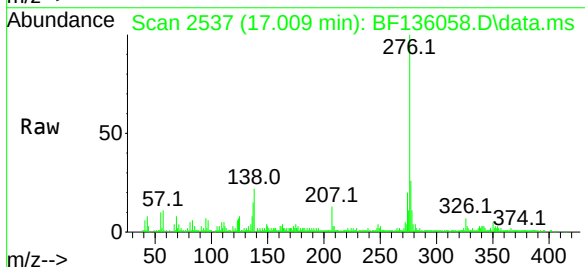
Delta R.T. 0.000 min

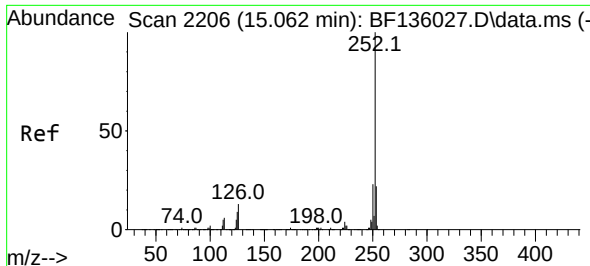
Lab File: BF136058.D

Acq: 31 Oct 2023 18:36

Tgt Ion:276 Resp: 65301

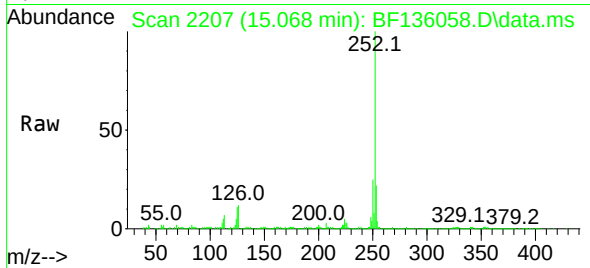
Ion	Ratio	Lower	Upper
276	100		
138	22.8	20.4	30.6
277	24.0	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 14.919 ng m
RT: 15.068 min Scan# 2206
Delta R.T. 0.006 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

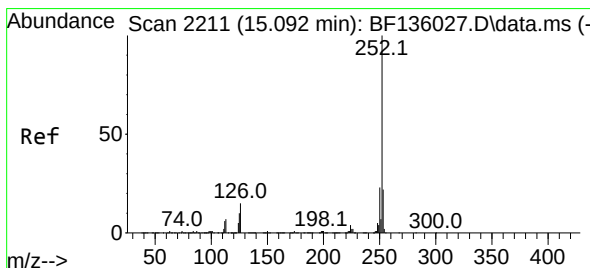
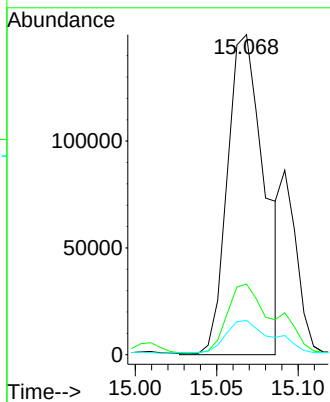
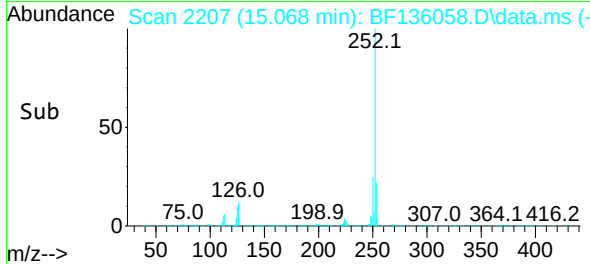
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:252 Resp: 23652
Ion Ratio Lower Upper
252 100
253 22.0 17.7 26.5
125 10.7 7.5 11.3

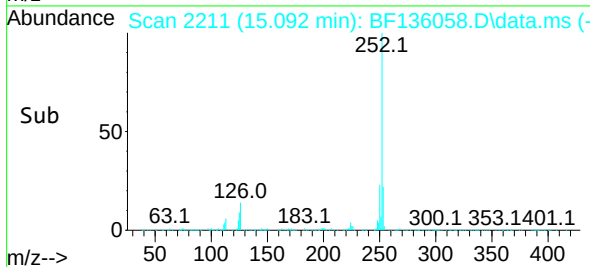
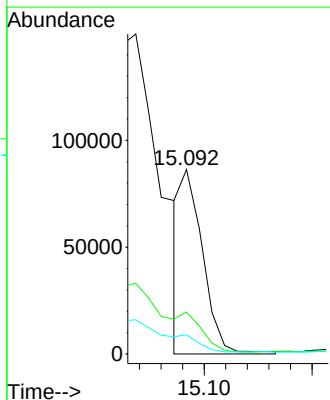
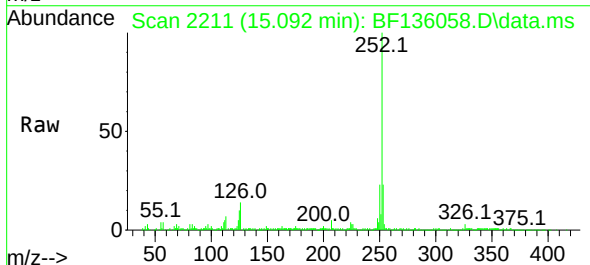
Manual Integrations
APPROVED

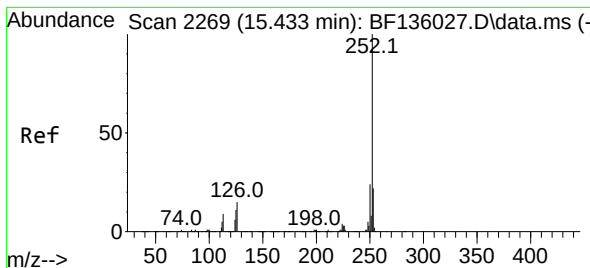
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 3.902 ng m
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF136058.D
Acq: 31 Oct 2023 18:36

Tgt Ion:252 Resp: 61203
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 10.4 8.0 12.0





#90

Benzo(a)pyrene

Concen: 9.197 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136058.D

Acq: 31 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

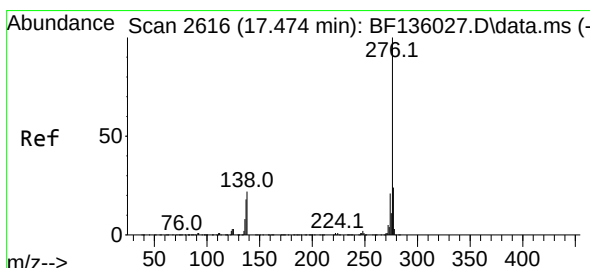
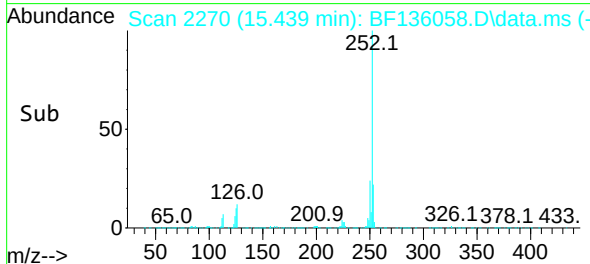
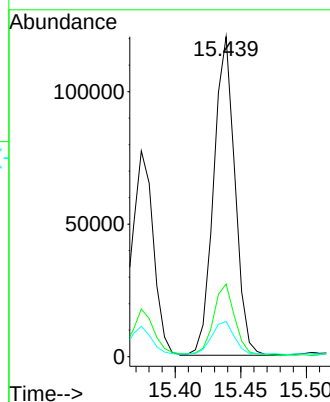
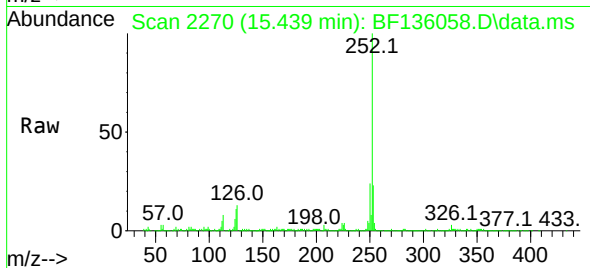
TP-4

Tgt Ion:252 Resp: 135478
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.3 25.9
 125 11.0 9.0 13.6

Manual Integrations

APPROVED

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



#92

Benzo(g,h,i)perylene

Concen: 6.184 ng

RT: 17.468 min Scan# 2615

Delta R.T. -0.006 min

Lab File: BF136058.D

Acq: 31 Oct 2023 18:36

Tgt Ion:276 Resp: 57156
 Ion Ratio Lower Upper
 276 100
 277 22.4 19.0 28.4
 138 21.9 17.4 26.2

