

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080923\
 Data File : BF134686.D
 Acq On : 09 Aug 2023 12:37
 Operator : CG\JU
 Sample : 03920-01DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-3-080723DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel
 08/10/2023

Supervised By :mohammad
 ahmed
 08/10/2023

Quant Time: Aug 10 01:39:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	185986	20.000	ng	0.00
21) Naphthalene-d8	8.080	136	724090	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	343581	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	535193	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	400950	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	411249	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	218080	17.824	ng	0.00
7) Phenol-d6	6.428	99	277074	17.715	ng	-0.01
23) Nitrobenzene-d5	7.357	82	160979	13.893	ng	-0.01
42) 2,4,6-Tribromophenol	10.621	330	56623	16.167	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	310245	15.014	ng	0.00
79) Terphenyl-d14	12.915	244	240977	10.595	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.098	128	152978	4.204	ng	99
37) 2-Methylnaphthalene	8.792	142	163656	6.785	ng	99
38) 1-Methylnaphthalene	8.892	142	157709	7.031	ng	96
52) Acenaphthene	9.869	154	276175	13.542	ng	99
55) Dibenzofuran	10.039	168	269410	9.280	ng	92
58) Fluorene	10.386	166	335566	15.869	ng	95
71) Phenanthrene	11.351	178	1338340	47.079	ng	100
72) Anthracene	11.404	178	342334	11.790	ng	99
73) Carbazole	11.557	167	94638	3.650	ng	98
75) Fluoranthene	12.545	202	966598	32.190	ng	97
78) Pyrene	12.774	202	829873	23.919	ng	97
81) Benzo(a)anthracene	13.962	228	355984	12.417	ng	97
83) Chrysene	13.998	228	314950	11.276	ng	95
87) Indeno(1,2,3-cd)pyrene	16.939	276	90030	3.722	ng	# 93
88) Benzo(b)fluoranthene	15.015	252	293491m	11.701	ng	
89) Benzo(k)fluoranthene	15.045	252	114613m	4.587	ng	
90) Benzo(a)pyrene	15.386	252	224156	9.585	ng	# 94
92) Benzo(g,h,i)perylene	17.392	276	83247	4.175	ng	# 85

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

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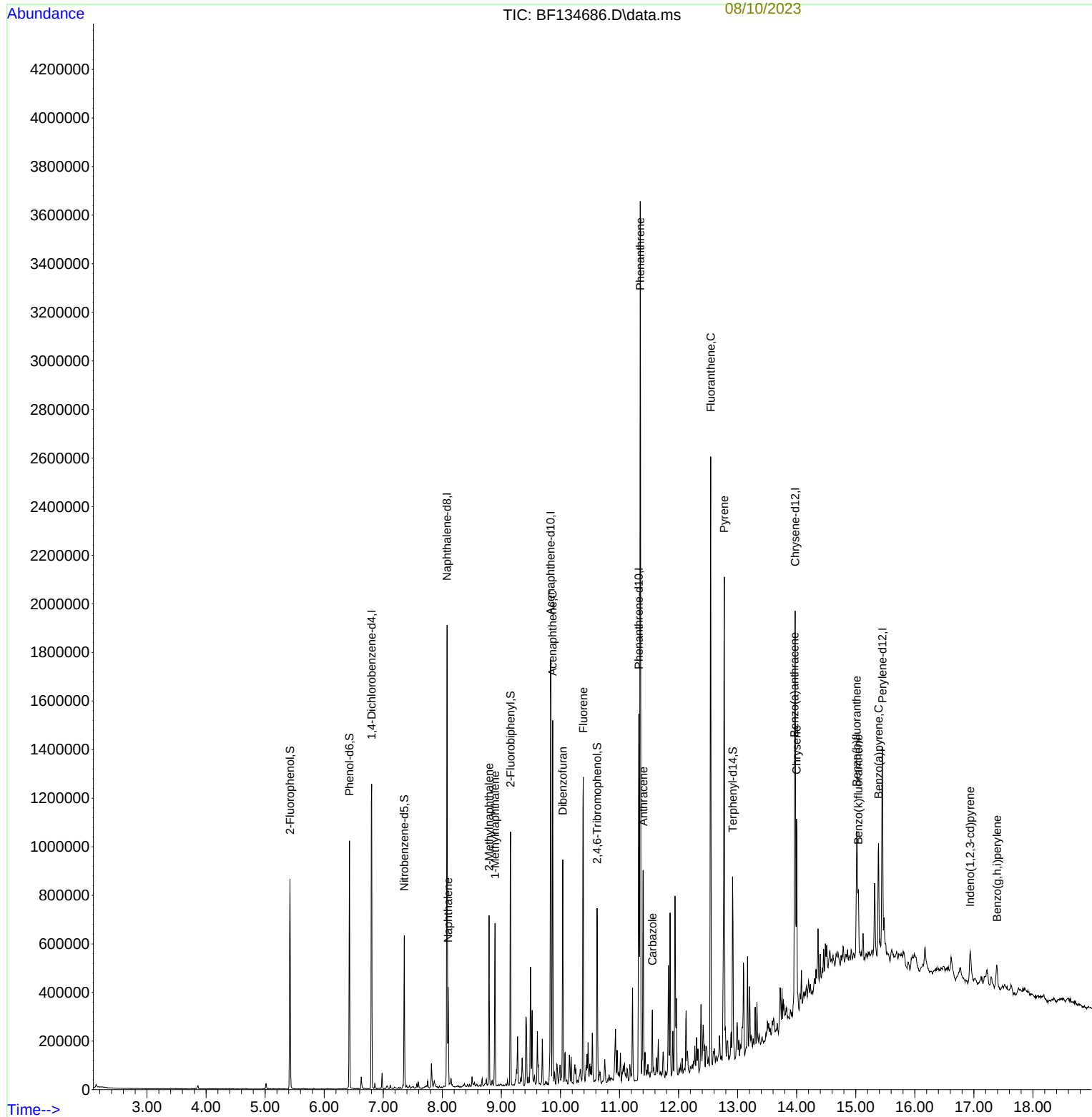
Instrument :
BNA_F
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OR-3-080723DL

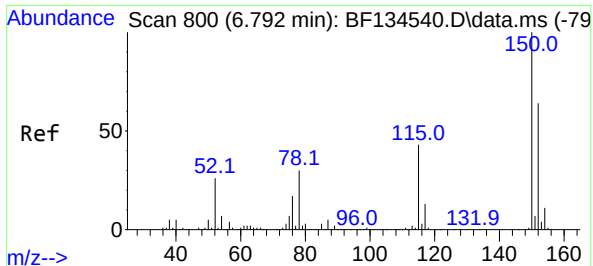
Quant Time: Aug 10 01:39:06 2023
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Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel
08/10/2023

Supervised By :mohammad
ahmed
08/10/2023





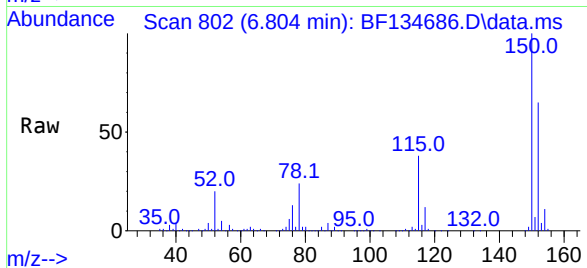
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 800
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

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ClientSampleId :

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Tgt Ion:152 Resp: 185980
Ion Ratio Lower Upper
152 100
150 153.4 128.3 192.5
115 57.5 52.4 78.6

Manual Integrations

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Reviewed By :Yogesh

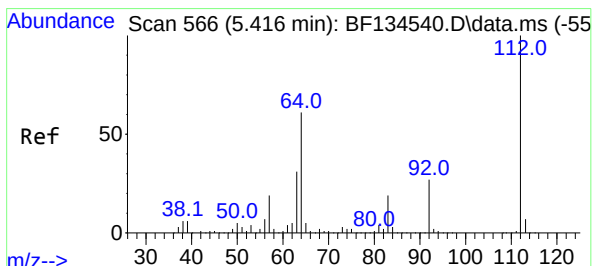
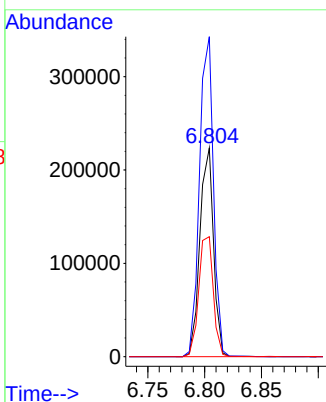
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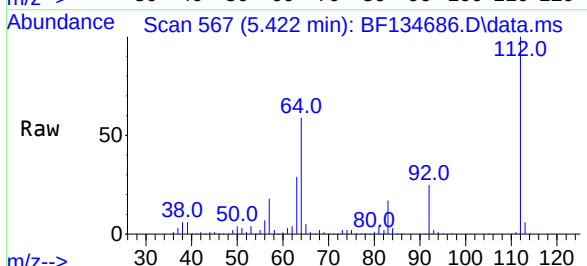
Supervised By :mohammad

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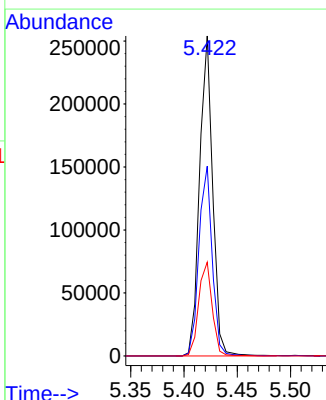
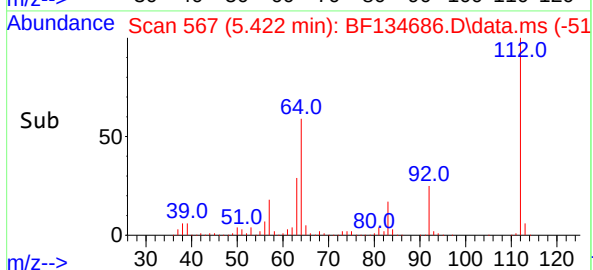
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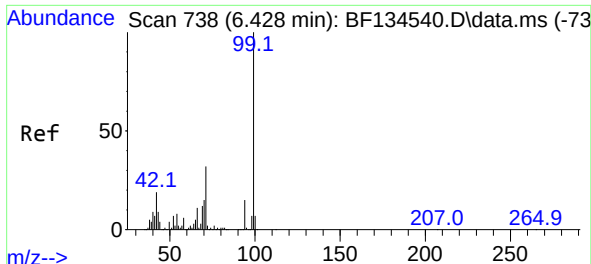


#5
2-Fluorophenol
Concen: 17.824 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37



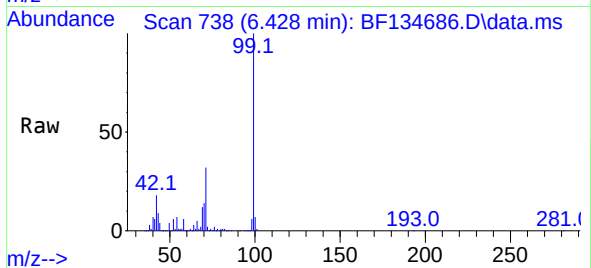
Tgt Ion:112 Resp: 218080
Ion Ratio Lower Upper
112 100
64 59.3 44.9 67.3
63 29.3 25.4 38.0





#7
Phenol-d6
Concen: 17.715 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
BNA_F
ClientSampleId :
OR-3-080723DL

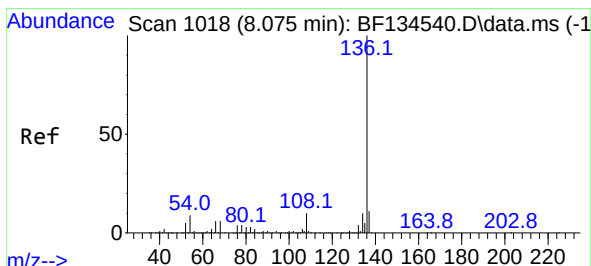
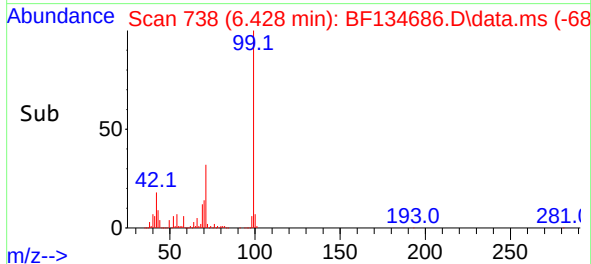
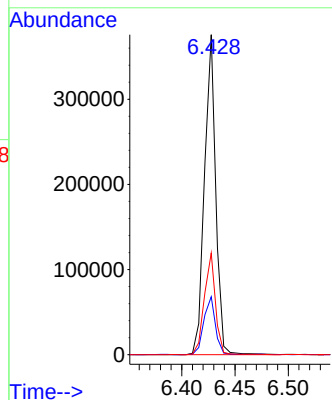


Tgt Ion: 99 Resp: 277074
Ion Ratio Lower Upper
99 100
42 18.1 18.7 28.1#
71 31.7 36.4 54.6#

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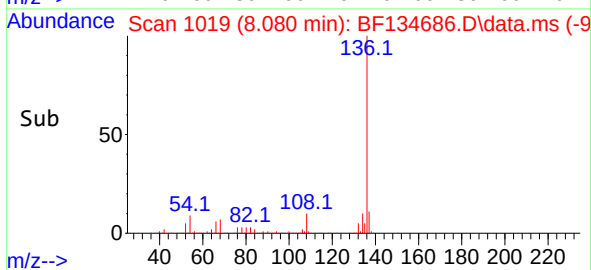
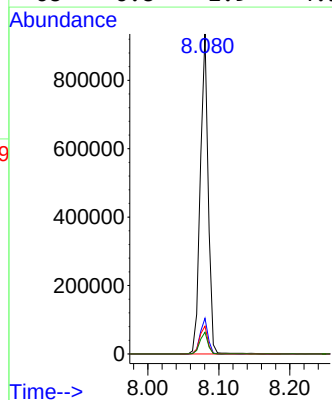
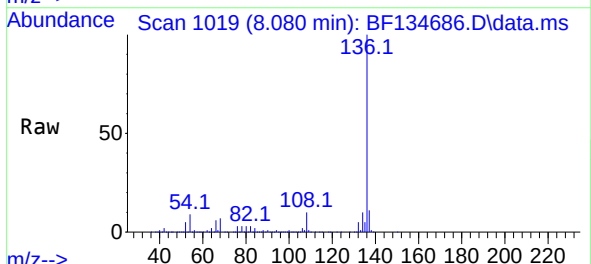
Reviewed By :Yogesh
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08/10/2023

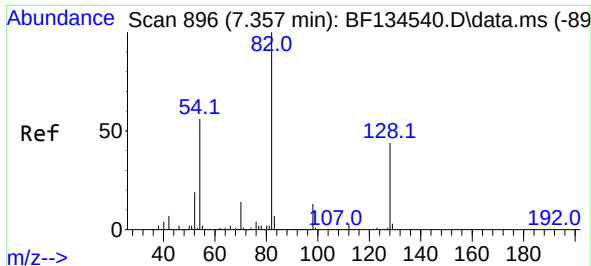
Supervised By :mohammad
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08/10/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.080 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:136 Resp: 724090
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.7 5.2 7.8#
68 6.8 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 13.893 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF134686.D

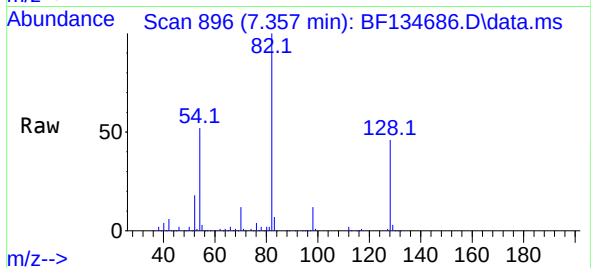
Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion: 82 Resp: 160978

Ion	Ratio	Lower	Upper
82	100		
128	46.4	34.3	51.5
54	52.5	43.8	65.6

Manual Integrations

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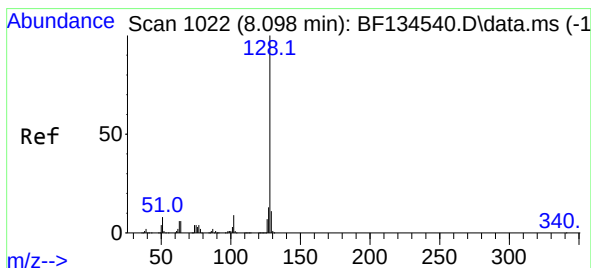
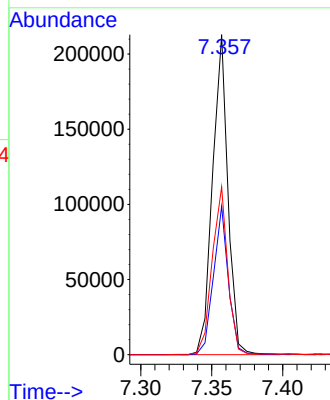
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#31

Naphthalene

Concen: 4.204 ng

RT: 8.098 min Scan# 1022

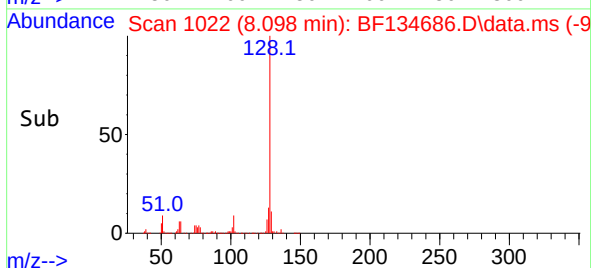
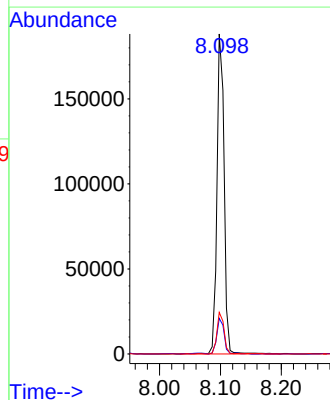
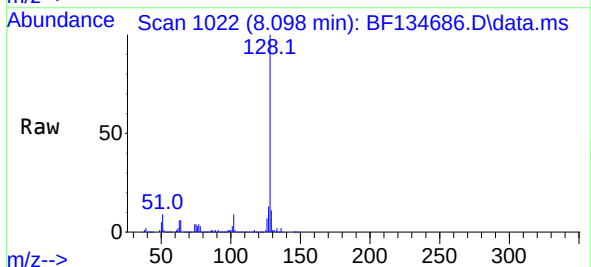
Delta R.T. -0.006 min

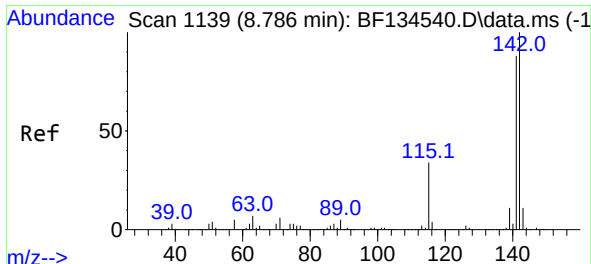
Lab File: BF134686.D

Acq: 09 Aug 2023 12:37

Tgt Ion:128 Resp: 152978

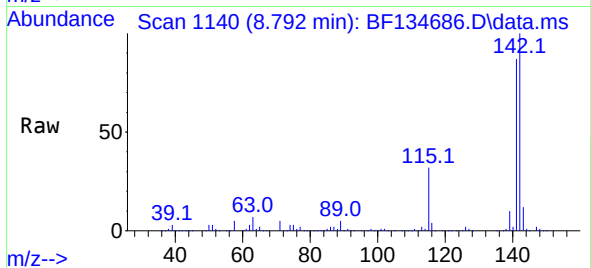
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	13.0	10.7	16.1





#37
2-Methylnaphthalene
Concen: 6.785 ng
RT: 8.792 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
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ClientSampleId :
OR-3-080723DL

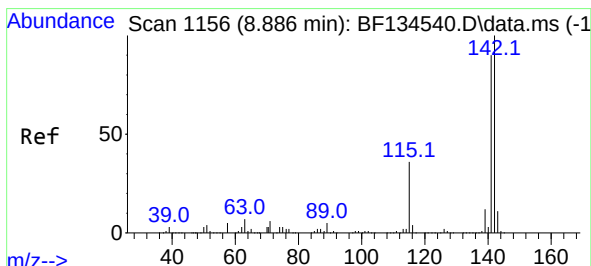
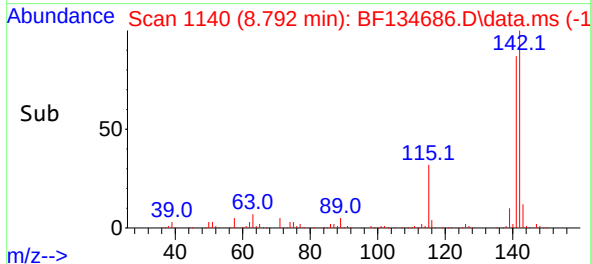
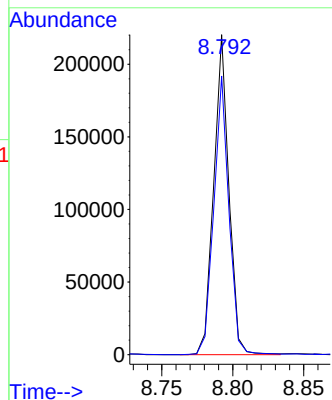


Tgt Ion:142 Resp: 163650
Ion Ratio Lower Upper
142 100
141 87.1 70.8 106.2

Manual Integrations
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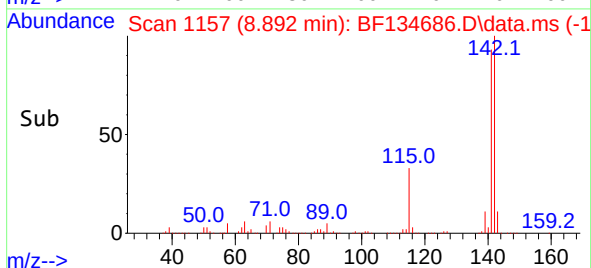
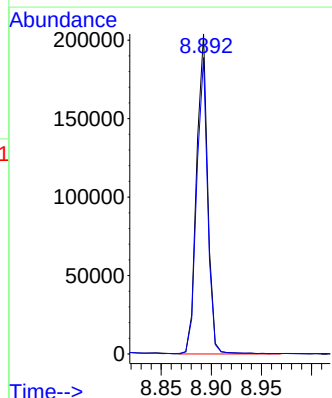
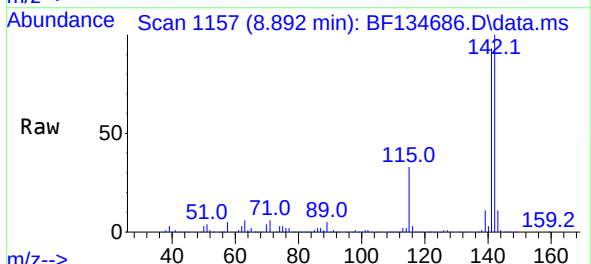
Reviewed By :Yogesh
Patel
08/10/2023

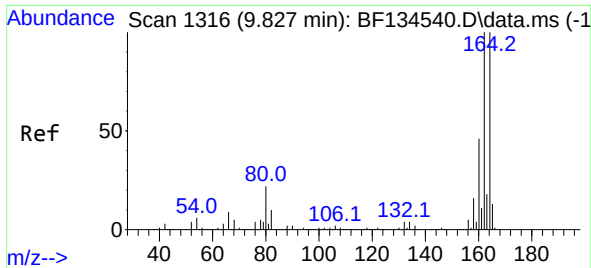
Supervised By :mohammad
ahmed
08/10/2023



#38
1-Methylnaphthalene
Concen: 7.031 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:142 Resp: 157709
Ion Ratio Lower Upper
142 100
141 92.6 71.4 107.2





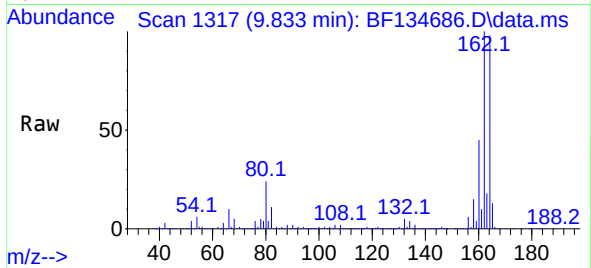
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:164 Resp: 34358
Ion Ratio Lower Upper
164 100
162 102.3 82.6 123.8
160 46.2 37.2 55.8

Manual Integrations
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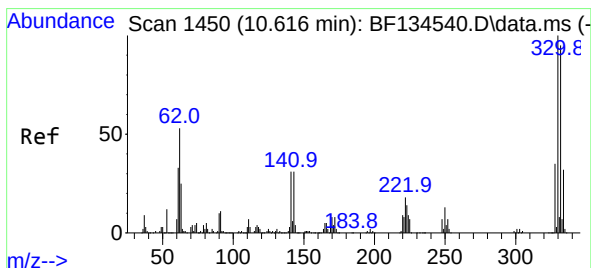
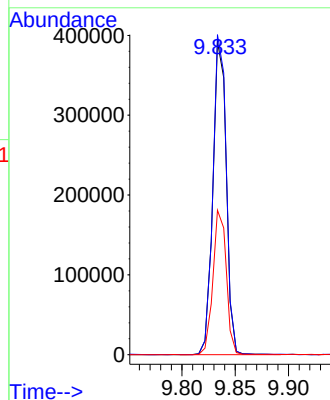
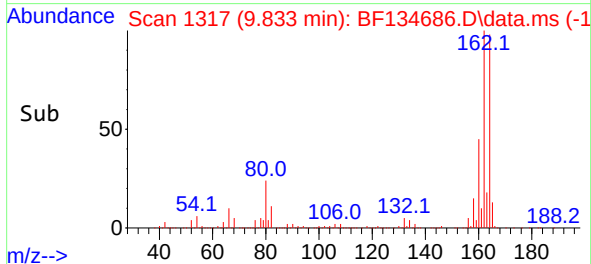
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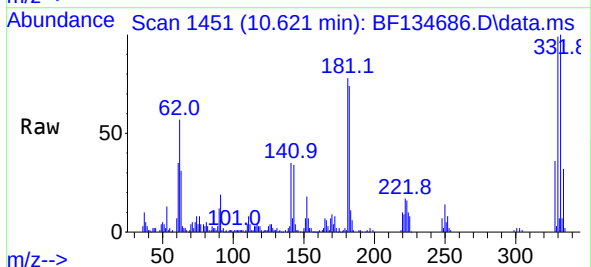
Supervised By :mohammad

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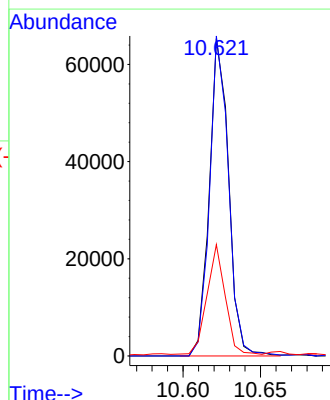
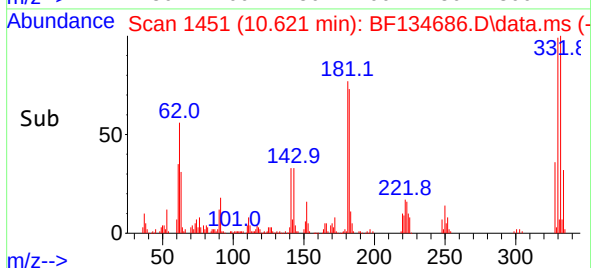
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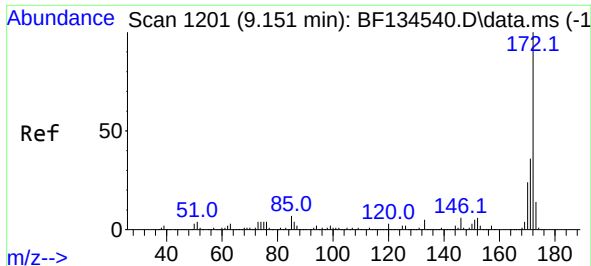


#42
2,4,6-Tribromophenol
Concen: 16.167 ng
RT: 10.621 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37



Tgt Ion:330 Resp: 56623
Ion Ratio Lower Upper
330 100
332 98.5 78.8 118.2
141 32.4 25.4 38.2





#45

2-Fluorobiphenyl

Concen: 15.014 ng

RT: 9.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134686.D

Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:172 Resp: 31024

Ion Ratio Lower Upper

172 100

171 33.8 28.8 43.2

170 22.4 18.7 28.1

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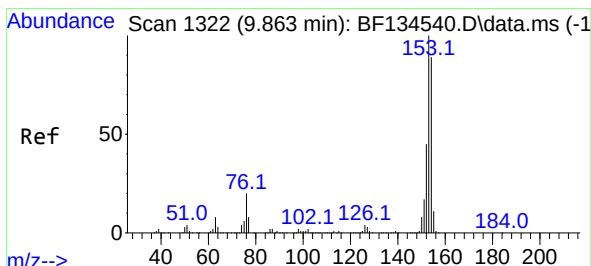
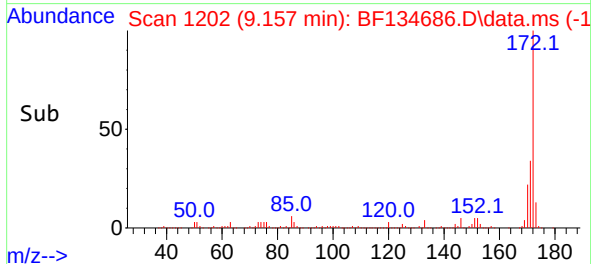
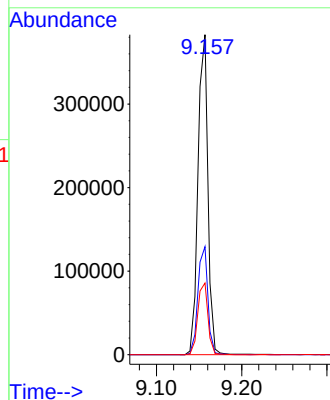
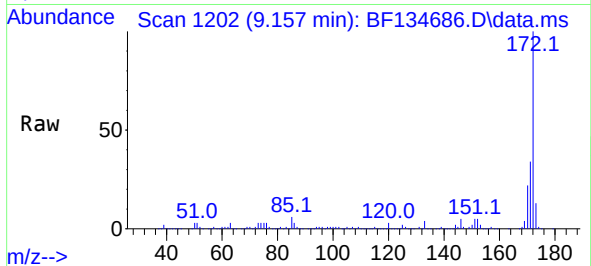
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08/10/2023



#52

Acenaphthene

Concen: 13.542 ng

RT: 9.869 min Scan# 1323

Delta R.T. -0.006 min

Lab File: BF134686.D

Acq: 09 Aug 2023 12:37

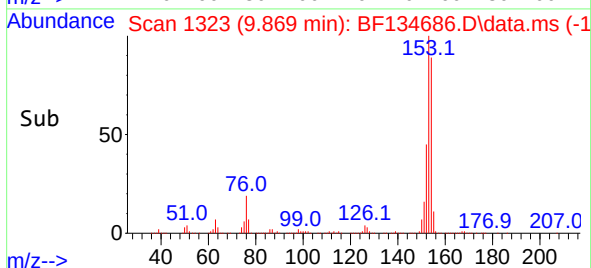
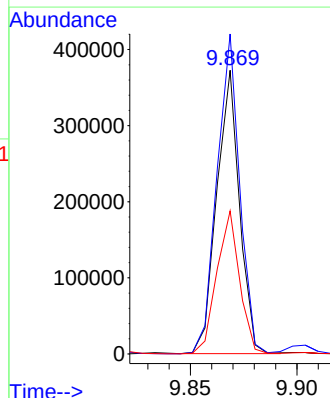
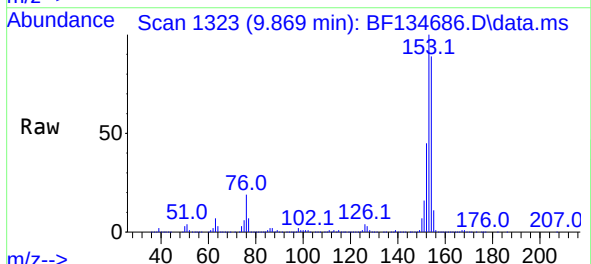
Tgt Ion:154 Resp: 276175

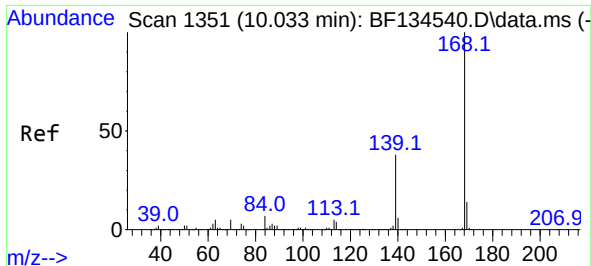
Ion Ratio Lower Upper

154 100

153 112.8 90.0 135.0

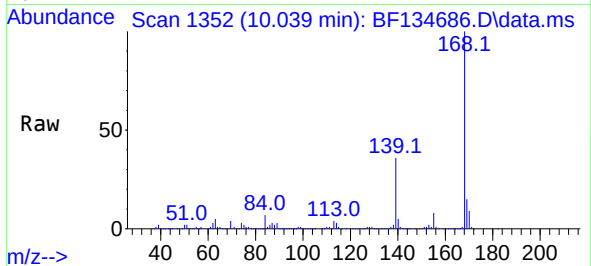
152 50.4 42.4 63.6





#55
Dibenzenofuran
Concen: 9.280 ng
RT: 10.039 min Scan# 1351
Delta R.T. -0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
BNA_F
ClientSampleId :
OR-3-080723DL

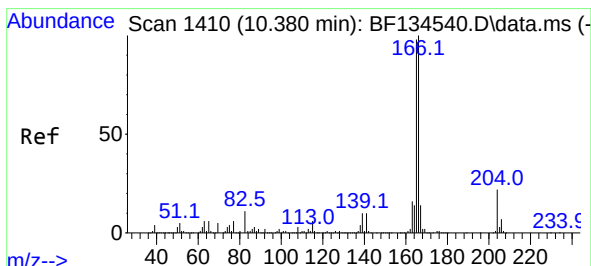
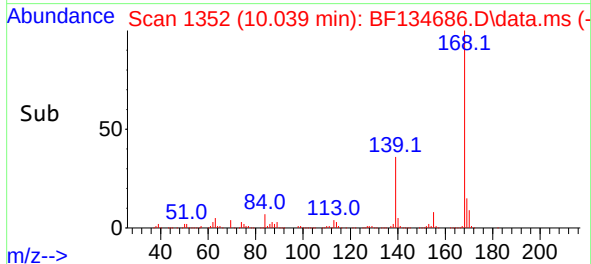
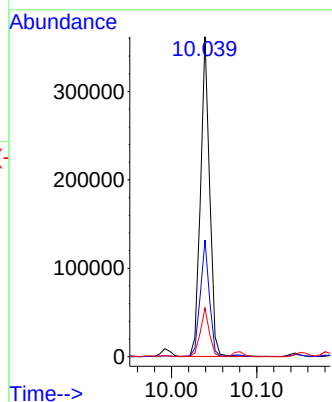


Tgt Ion:168 Resp: 269410
Ion Ratio Lower Upper
168 100
139 36.4 33.4 50.2
169 15.2 10.6 15.8

Manual Integrations
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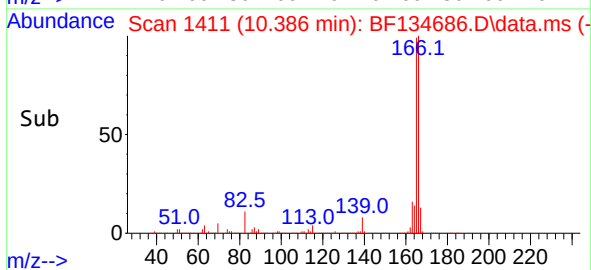
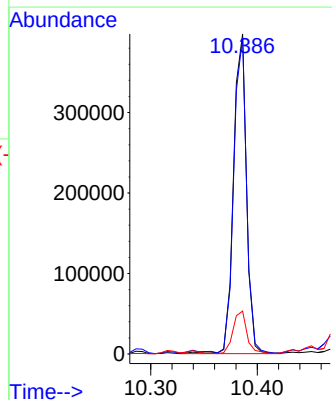
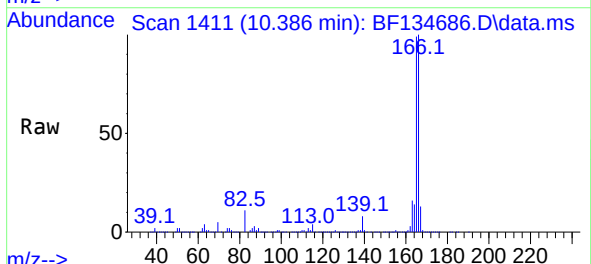
Reviewed By :Yogesh
Patel
08/10/2023

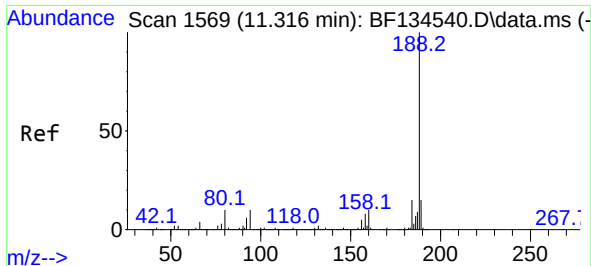
Supervised By :mohammad
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08/10/2023



#58
Fluorene
Concen: 15.869 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

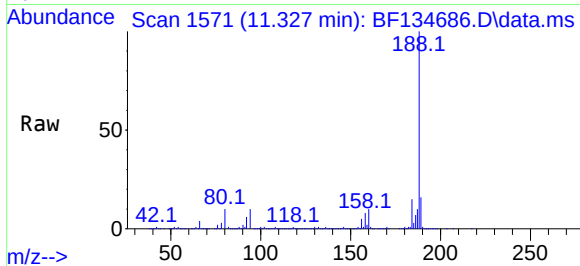
Tgt Ion:166 Resp: 335566
Ion Ratio Lower Upper
166 100
165 99.0 74.5 111.7
167 13.4 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
BNA_F
ClientSampleId :
OR-3-080723DL

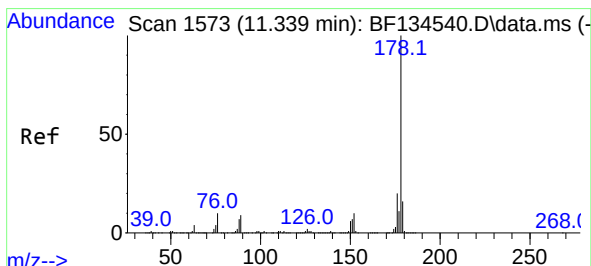
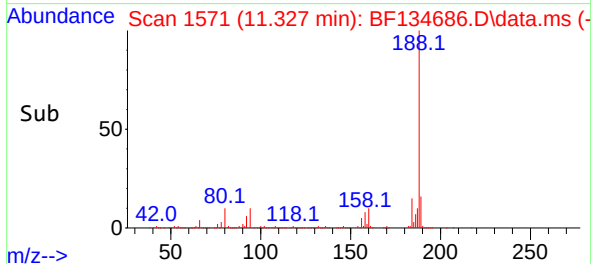
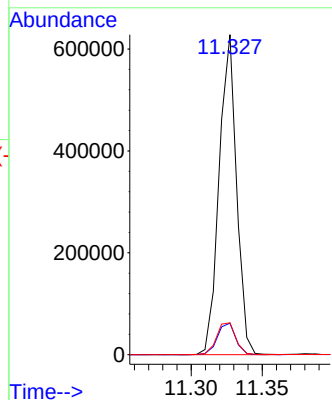


Tgt Ion:188 Resp: 535193
Ion Ratio Lower Upper
188 100
94 9.8 5.1 7.7
80 10.0 6.6 9.8

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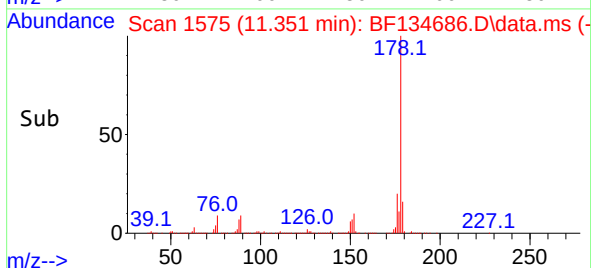
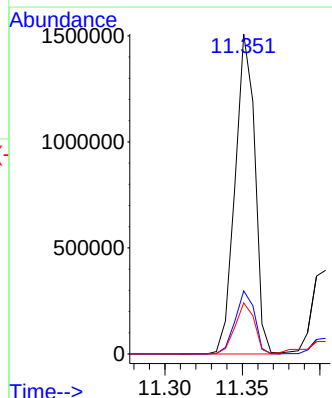
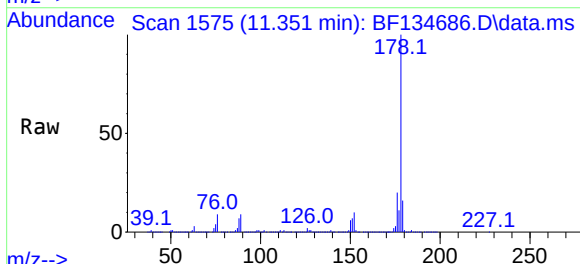
Reviewed By :Yogesh
Patel
08/10/2023

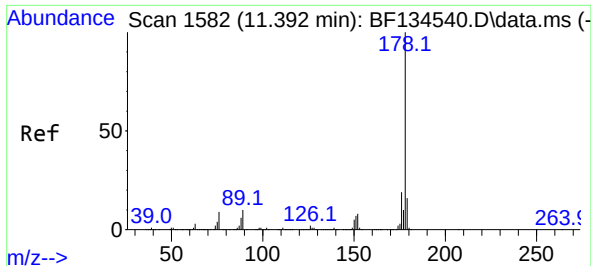
Supervised By :mohammad
ahmed
08/10/2023



#71
Phenanthrene
Concen: 47.079 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:178 Resp: 1338340
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.9 12.7 19.1





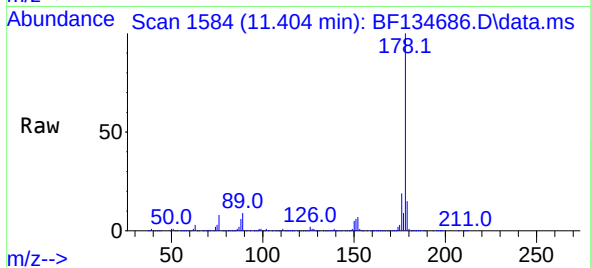
#72
 Anthracene
 Concen: 11.790 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF134686.D
 Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:178 Resp: 342334
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.6 21.8
 179 15.0 12.3 18.5

Manual Integrations

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Reviewed By :Yogesh

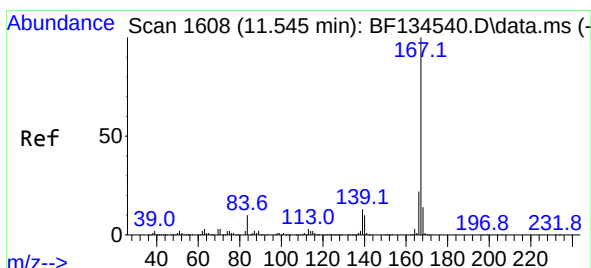
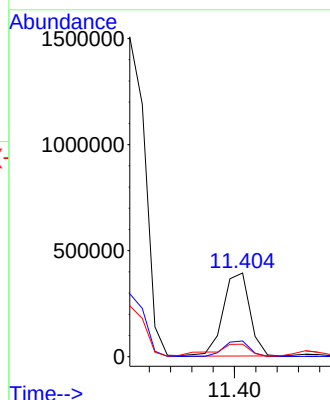
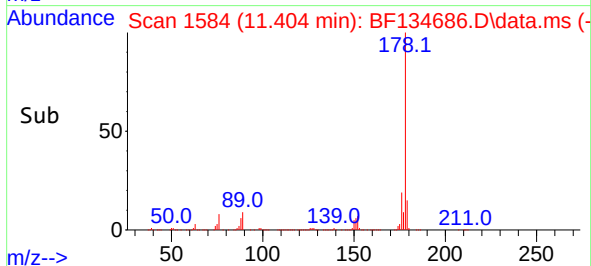
Patel

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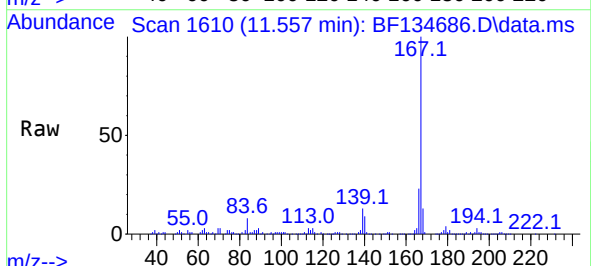
Supervised By :mohammad

ahmed

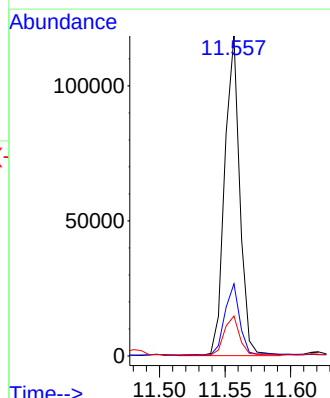
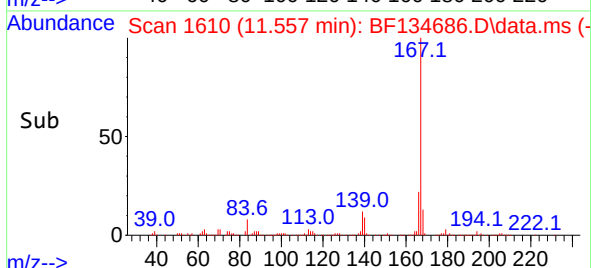
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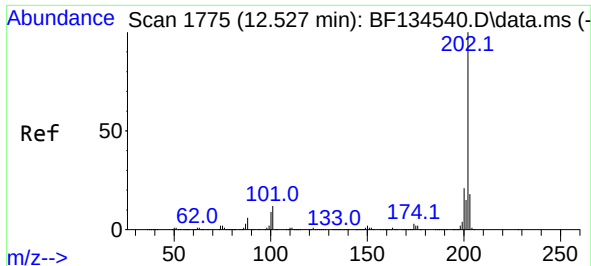


#73
 Carbazole
 Concen: 3.650 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.000 min
 Lab File: BF134686.D
 Acq: 09 Aug 2023 12:37



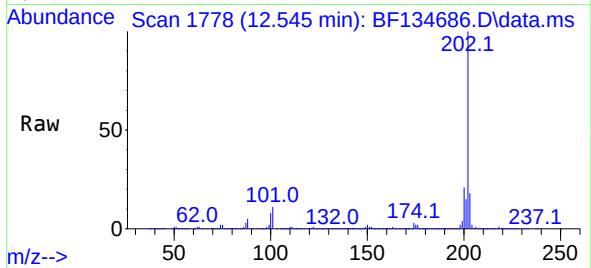
Tgt Ion:167 Resp: 94638
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.5 26.3
 139 12.5 11.0 16.4





#75
Fluoranthene
Concen: 32.190 ng
RT: 12.545 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
BNA_F
ClientSampleId :
OR-3-080723DL

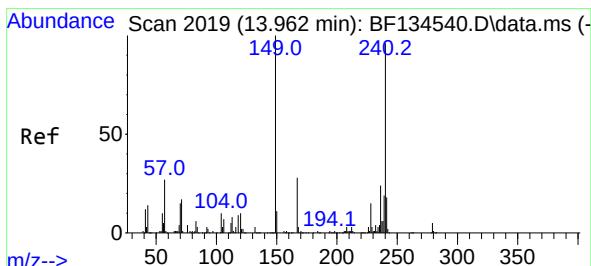
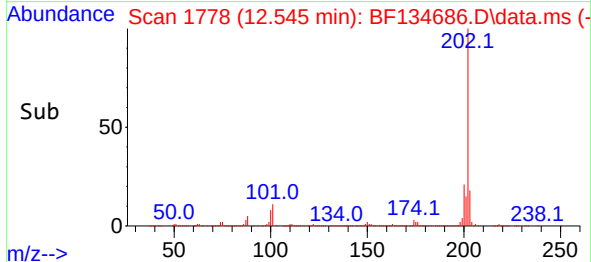
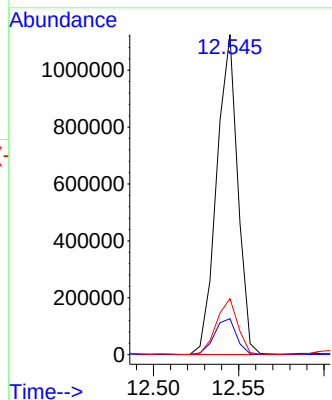


Tgt Ion:202 Resp: 966598
Ion Ratio Lower Upper
202 100
101 11.3 0.0 28.5
203 17.6 0.0 37.5

Manual Integrations
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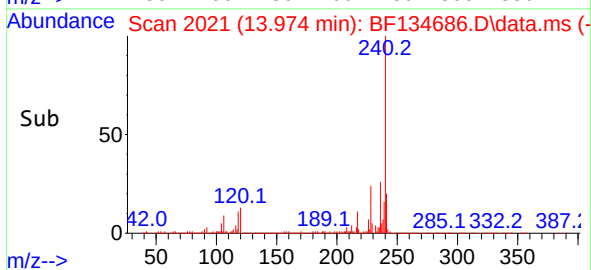
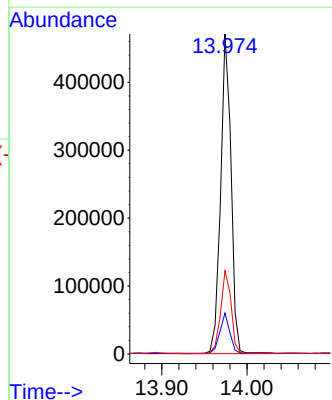
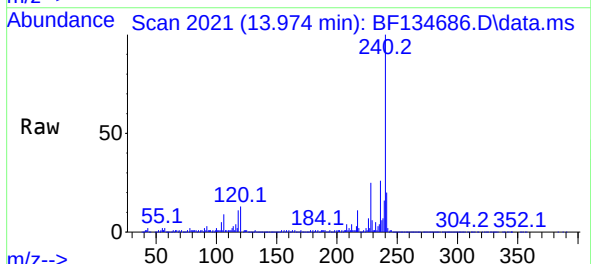
Reviewed By :Yogesh
Patel
08/10/2023

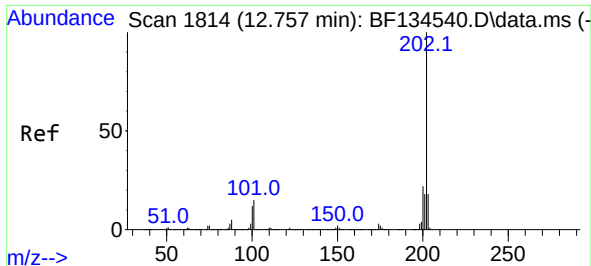
Supervised By :mohammad
ahmed
08/10/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

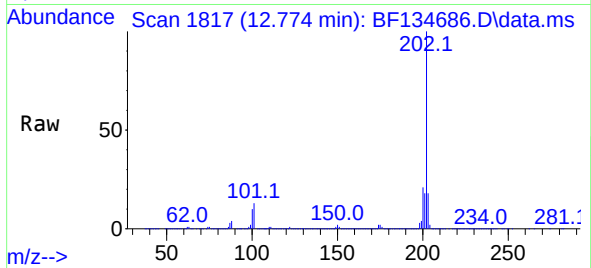
Tgt Ion:240 Resp: 400950
Ion Ratio Lower Upper
240 100
120 12.8 6.6 10.0#
236 26.0 20.2 30.2





#78
Pyrene
Concen: 23.919 ng
RT: 12.774 min Scan# 1817
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :
BNA_F
ClientSampleId :
OR-3-080723DL

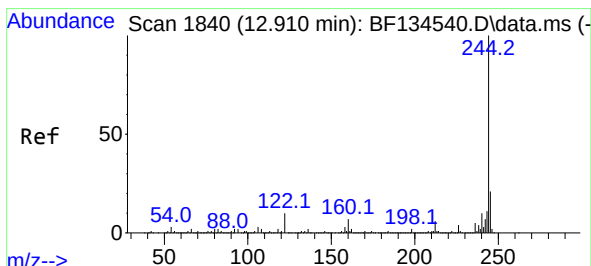
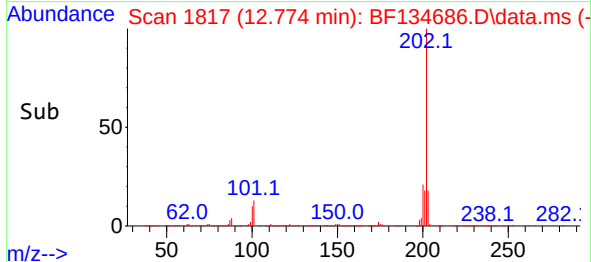
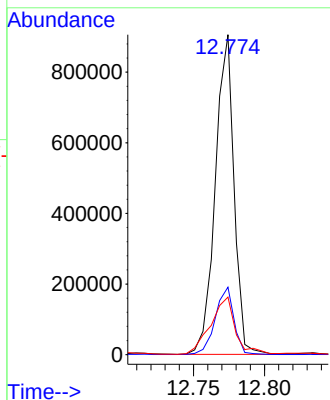


Tgt Ion:202 Resp: 82987
Ion Ratio Lower Upper
202 100
200 21.1 15.8 23.8
203 18.0 13.5 20.3

Manual Integrations
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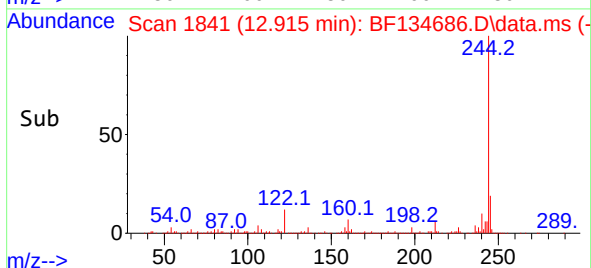
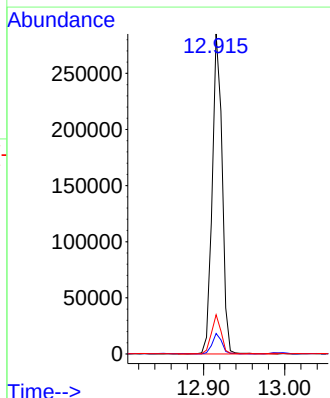
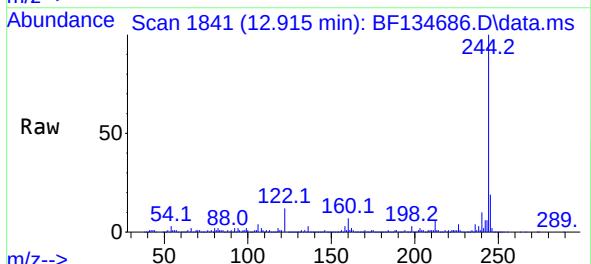
Reviewed By :Yogesh
Patel
08/10/2023

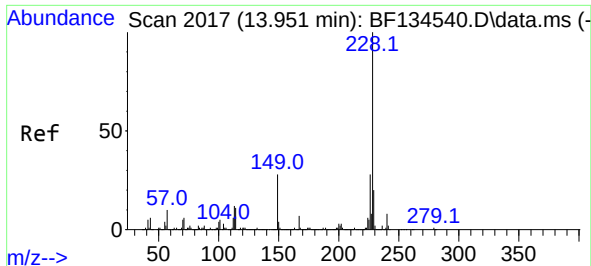
Supervised By :mohammad
ahmed
08/10/2023



#79
Terphenyl-d14
Concen: 10.595 ng
RT: 12.915 min Scan# 1841
Delta R.T. -0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:244 Resp: 240977
Ion Ratio Lower Upper
244 100
212 6.4 5.6 8.4
122 12.3 8.0 12.0#





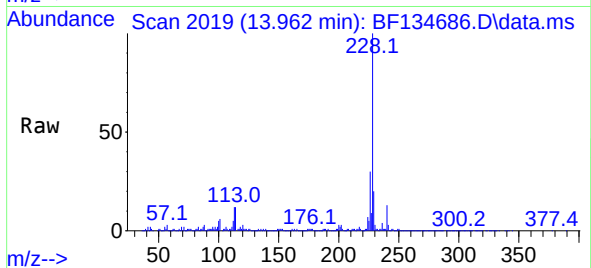
#81
Benzo(a)anthracene
Concen: 12.417 ng
RT: 13.962 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:228 Resp: 355984
Ion Ratio Lower Upper
228 100
226 29.6 22.3 33.5
229 20.3 15.8 23.6

Manual Integrations

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Reviewed By :Yogesh

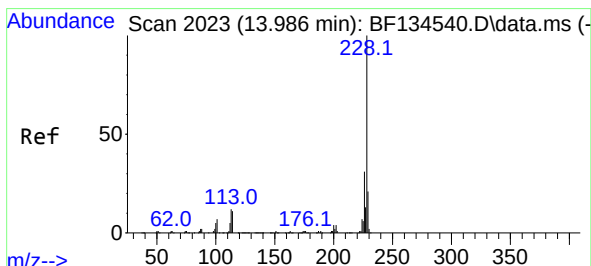
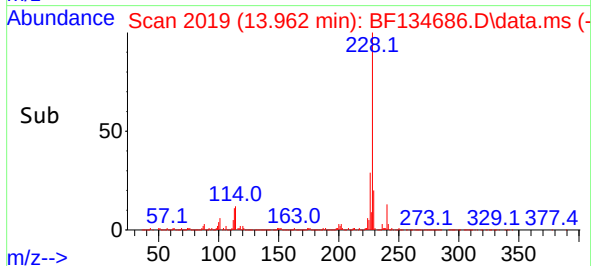
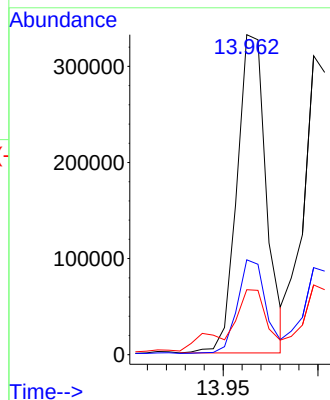
Patel

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Supervised By :mohammad

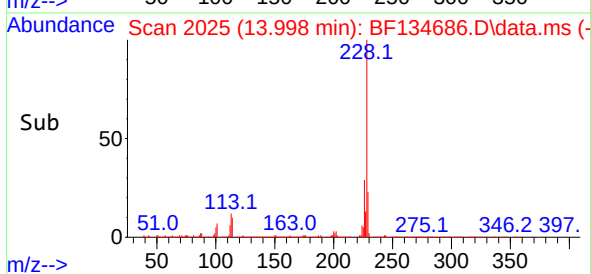
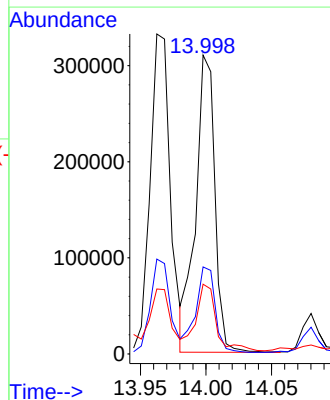
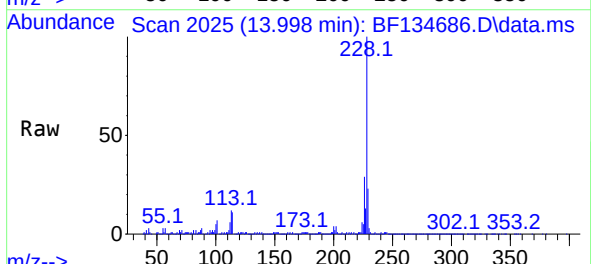
ahmed

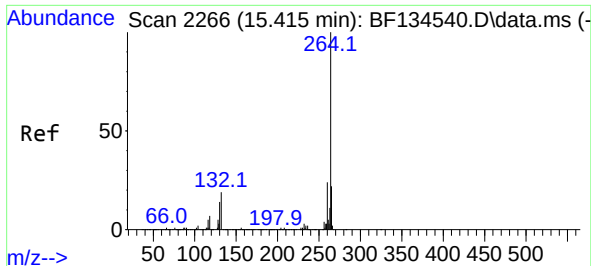
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#83
Chrysene
Concen: 11.276 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:228 Resp: 314950
Ion Ratio Lower Upper
228 100
226 29.1 24.5 36.7
229 23.3 15.8 23.8





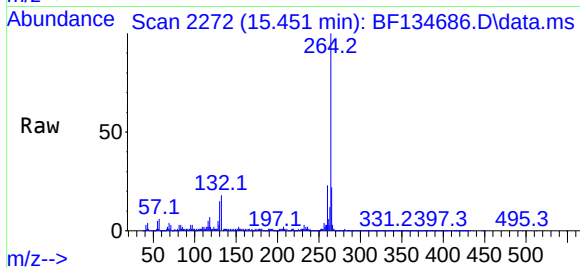
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 211
Delta R.T. 0.012 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:264 Resp: 411249
Ion Ratio Lower Upper
264 100
260 22.9 18.4 27.6
265 22.1 15.8 23.8

Manual Integrations
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Reviewed By :Yogesh

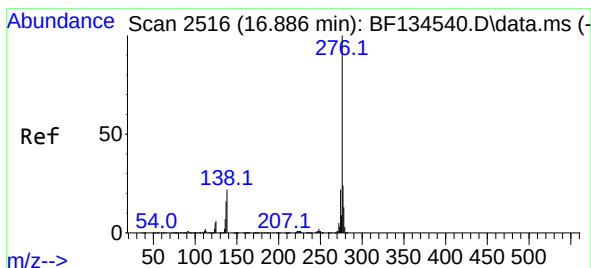
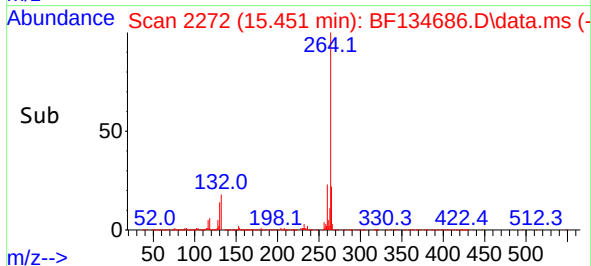
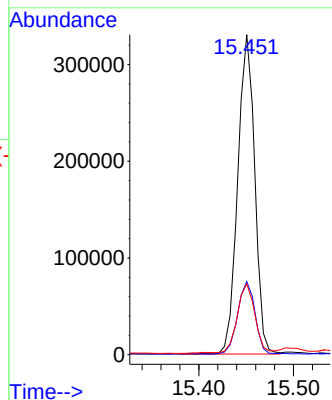
Patel

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Supervised By :mohammad

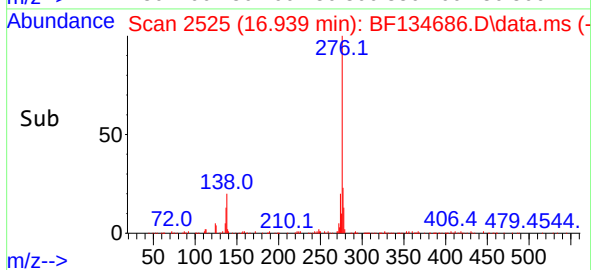
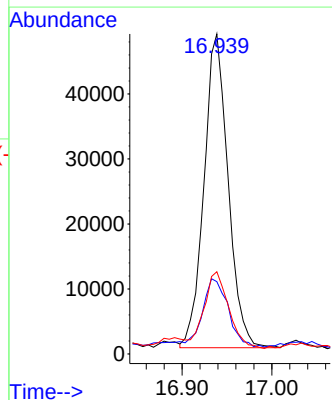
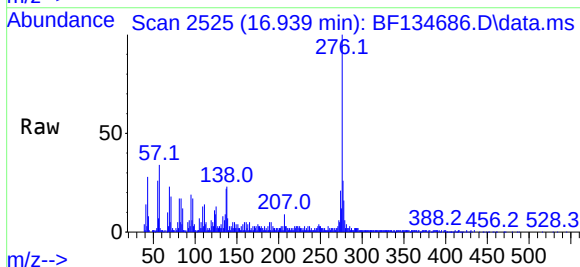
ahmed

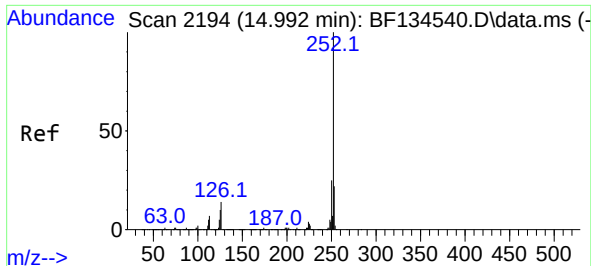
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#87
Indeno(1,2,3-cd)pyrene
Concen: 3.722 ng
RT: 16.939 min Scan# 2525
Delta R.T. 0.012 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:276 Resp: 90030
Ion Ratio Lower Upper
276 100
138 24.9 14.2 21.4#
277 25.3 19.9 29.9





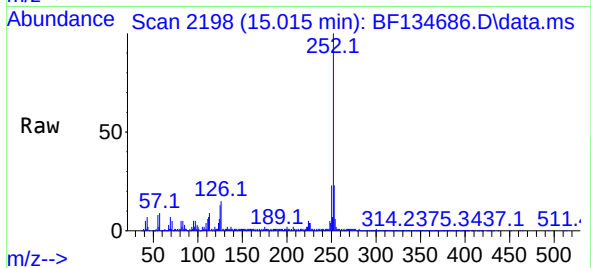
#88
Benzo(b)fluoranthene
Concen: 11.701 ng m
RT: 15.015 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

BNF_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:252 Resp: 29349
Ion Ratio Lower Upper
252 100
253 23.3 17.3 25.9
125 13.2 6.0 9.0

Manual Integrations

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Reviewed By :Yogesh

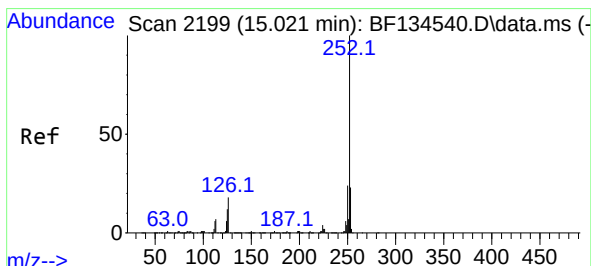
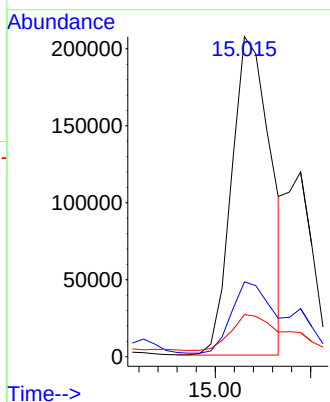
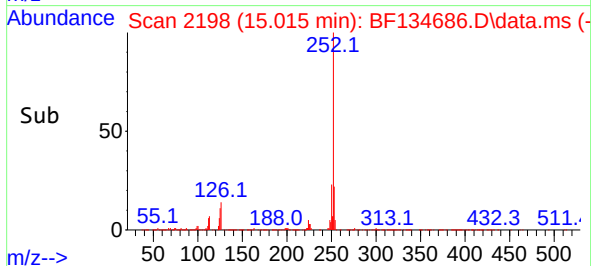
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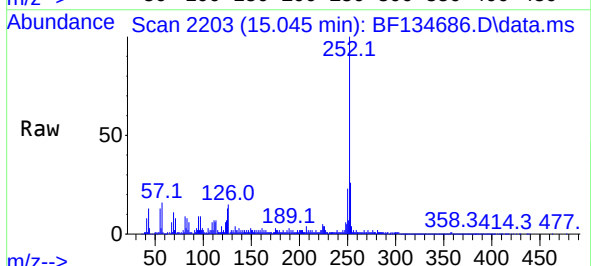
Supervised By :mohammad

ahmed

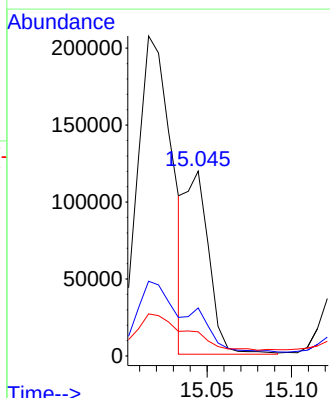
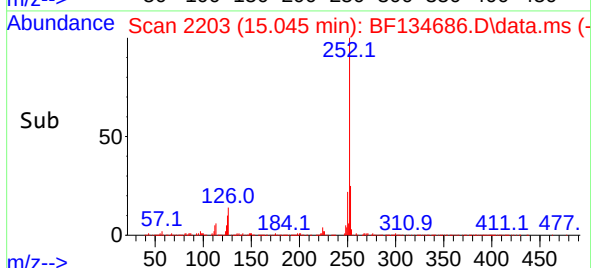
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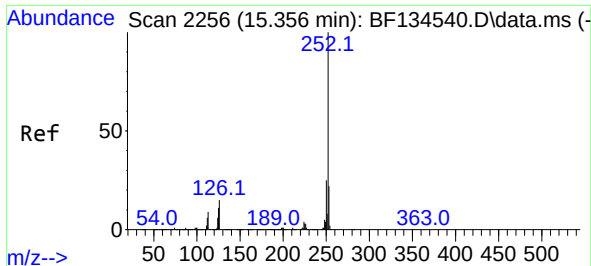


#89
Benzo(k)fluoranthene
Concen: 4.587 ng m
RT: 15.045 min Scan# 2203
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37



Tgt Ion:252 Resp: 114613
Ion Ratio Lower Upper
252 100
253 26.0 17.9 26.9
125 13.0 6.3 9.5





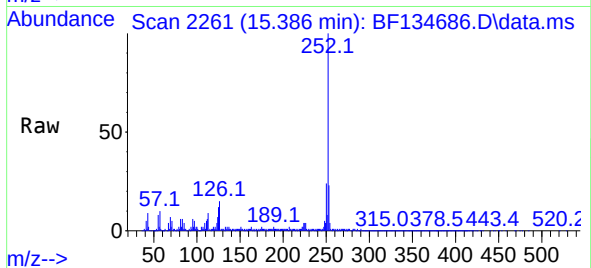
#90
Benzo(a)pyrene
Concen: 9.585 ng
RT: 15.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Instrument :

BNA_F

ClientSampleId :

OR-3-080723DL



Tgt Ion:252 Resp: 224150
Ion Ratio Lower Upper
252 100
253 22.8 17.0 25.4
125 12.4 6.2 9.4

Manual Integrations

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Reviewed By :Yogesh

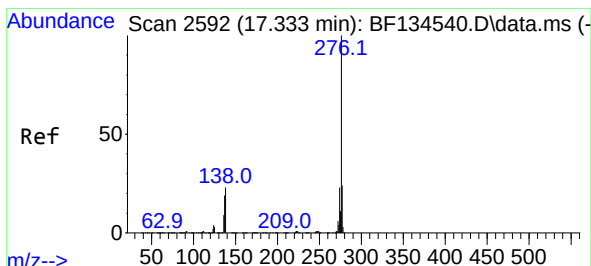
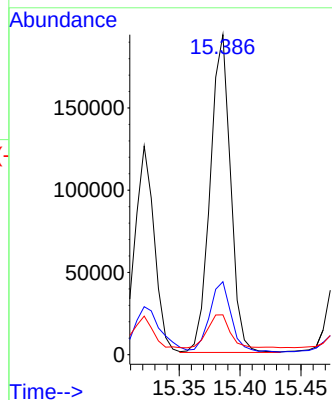
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Supervised By :mohammad

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08/10/2023



#92
Benzo(g,h,i)perylene
Concen: 4.175 ng
RT: 17.392 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF134686.D
Acq: 09 Aug 2023 12:37

Tgt Ion:276 Resp: 83247
Ion Ratio Lower Upper
276 100
277 28.5 19.0 28.6
138 25.4 12.2 18.2

