

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080823\
 Data File : BF134673.D
 Acq On : 08 Aug 2023 15:55
 Operator : CG\JU
 Sample : 03815-03DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01DL

Quant Time: Aug 09 02:18:24 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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/09/2023
 Supervised By :mohammad ahmed 08/09/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	162589	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	561443	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	228948	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	417066	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	316790	20.000	ng	# 0.00
86) Perylene-d12	15.445	264	248974	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	6716	0.628	ng	0.00
7) Phenol-d6	6.428	99	8840	0.647	ng	-0.01
23) Nitrobenzene-d5	7.357	82	4244	0.472	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	1041	0.446	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	8284	0.602	ng	-0.01
79) Terphenyl-d14	12.916	244	11425	0.636	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	1649604	58.461	ng	99
37) 2-Methylnaphthalene	8.792	142	583530	31.199	ng	100
38) 1-Methylnaphthalene	8.892	142	400947	23.053	ng	98
46) 1,1'-Biphenyl	9.257	154	147761	8.299	ng	97
49) Acenaphthylene	9.692	152	301332	14.370	ng	98
52) Acenaphthene	9.869	154	75275	5.539	ng	97
58) Fluorene	10.380	166	252023	17.886	ng	96
71) Phenanthrene	11.351	178	1171595	52.887	ng	99
72) Anthracene	11.398	178	337033	14.894	ng	99
75) Fluoranthene	12.539	202	464137	19.835	ng	95
78) Pyrene	12.774	202	815804	29.761	ng	99
81) Benzo(a)anthracene	13.963	228	277858m	12.266	ng	
83) Chrysene	13.998	228	231545	10.492	ng	98
87) Indeno(1,2,3-cd)pyrene	16.933	276	51731	3.533	ng	# 92
88) Benzo(b)fluoranthene	15.015	252	136748m	9.006	ng	
89) Benzo(k)fluoranthene	15.039	252	38942m	2.574	ng	
90) Benzo(a)pyrene	15.380	252	155076	10.953	ng	# 95
92) Benzo(g,h,i)perylene	17.380	276	54790	4.539	ng	# 87

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

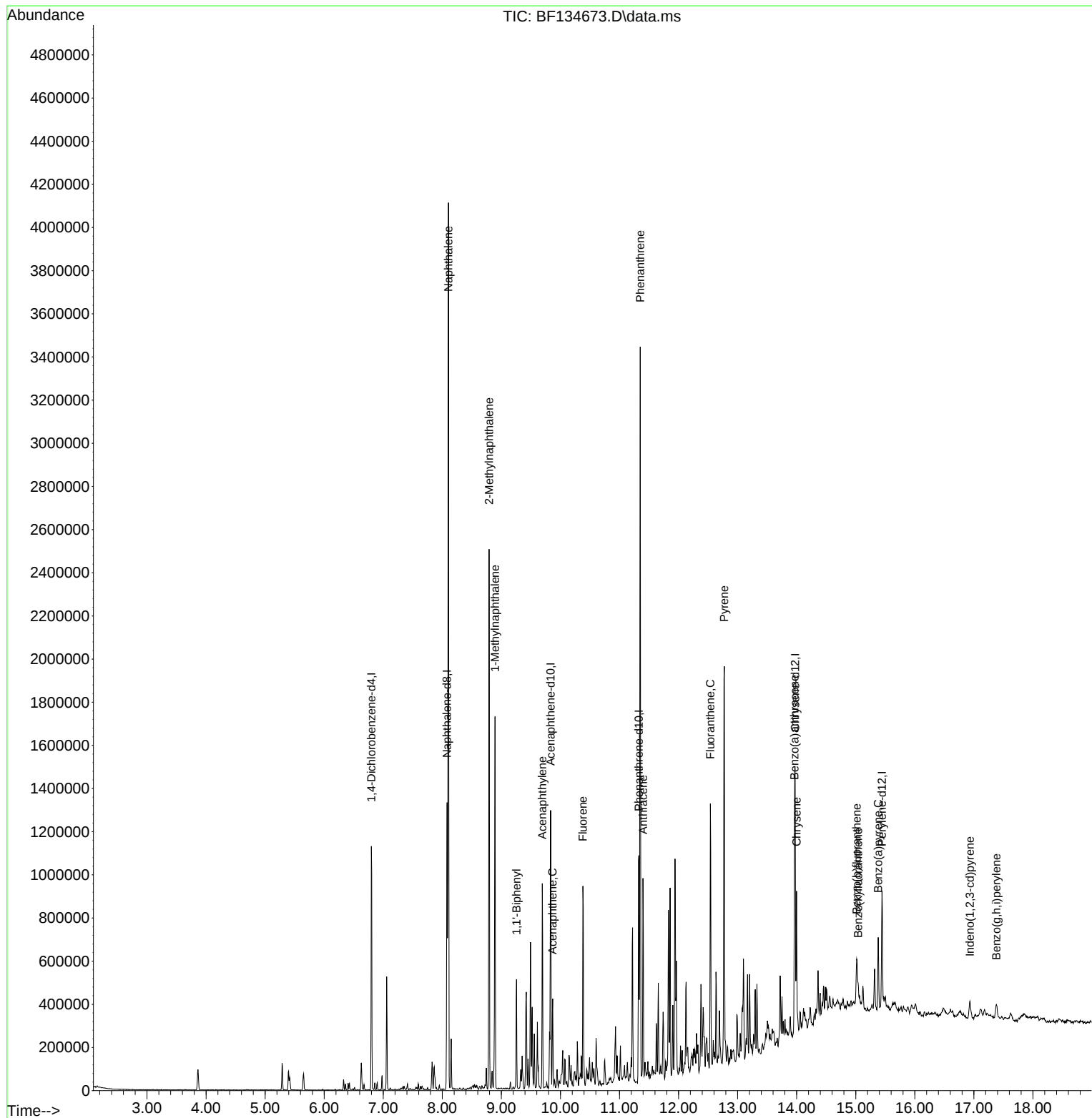
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080823\
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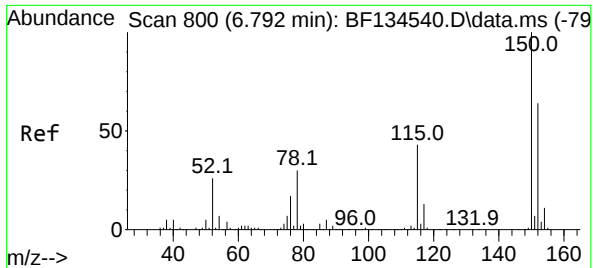
Instrument :
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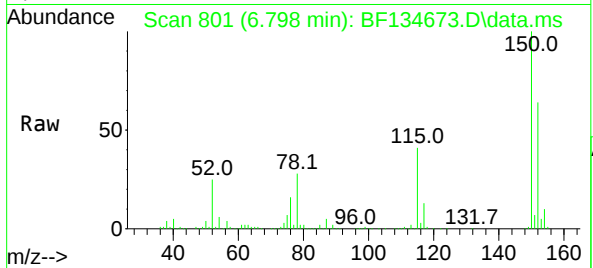
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

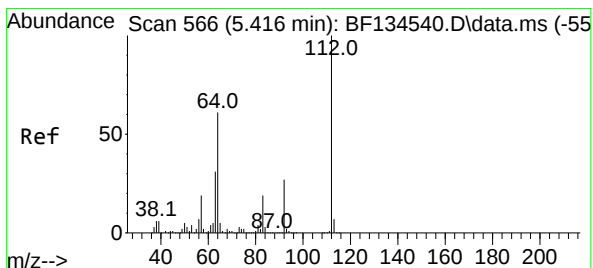
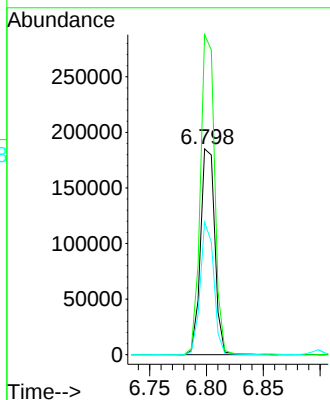
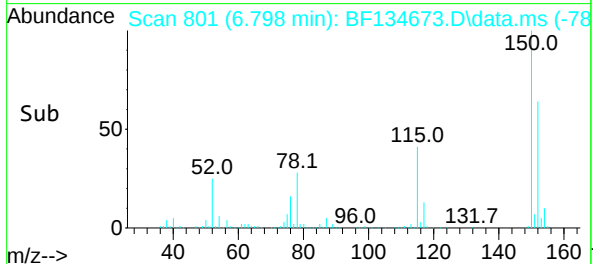
Instrument :
BNA_F
ClientSampleId :
DUP-01DL



Tgt Ion:152 Resp: 162589
Ion Ratio Lower Upper
152 100
150 155.5 128.3 192.5
115 64.5 52.4 78.6

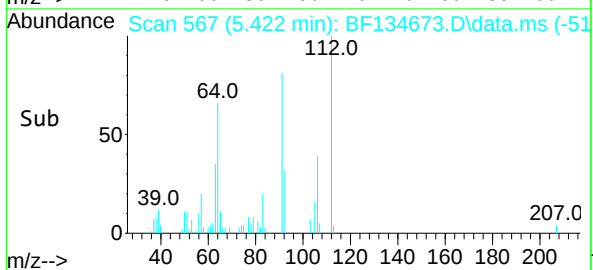
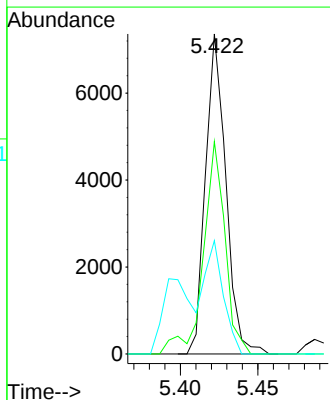
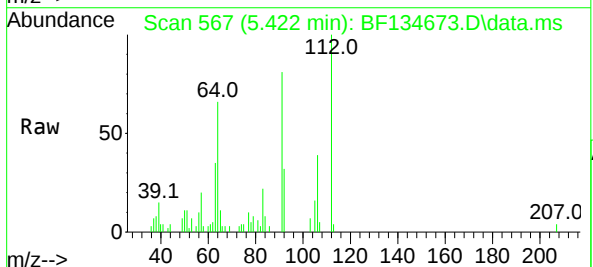
Manual Integrations
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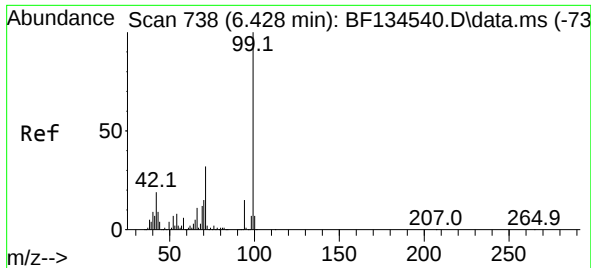
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023



#5
2-Fluorophenol
Concen: 0.628 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

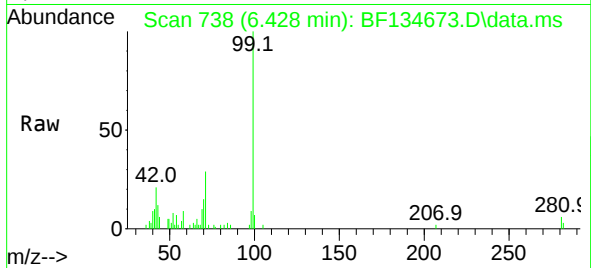
Tgt Ion:112 Resp: 6716
Ion Ratio Lower Upper
112 100
64 66.3 44.9 67.3
63 35.4 25.4 38.0





#7
Phenol-d6
Concen: 0.647 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

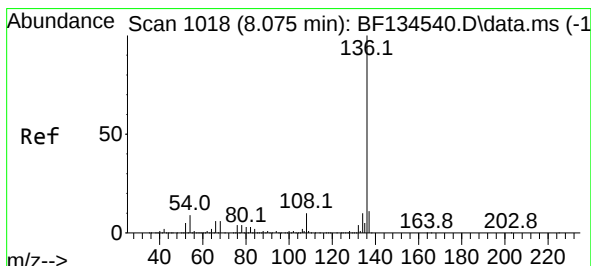
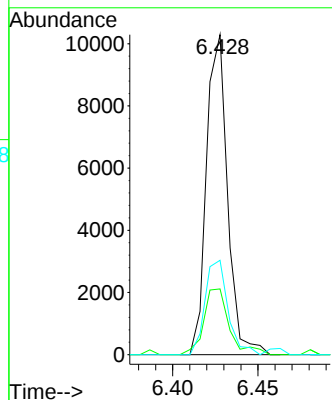
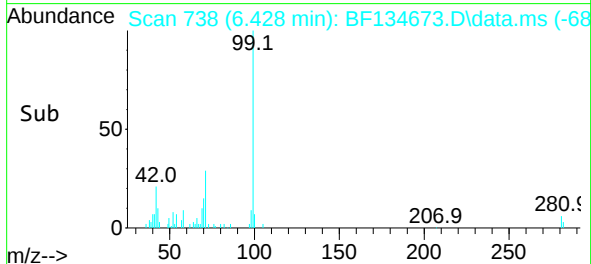
Instrument :
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ClientSampleId :
DUP-01DL



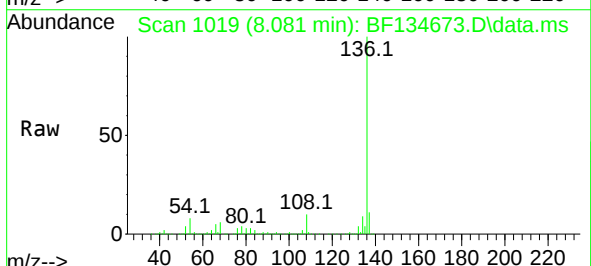
Tgt Ion: 99 Resp: 8840
Ion Ratio Lower Upper
99 100
42 20.5 18.7 28.1
71 29.5 36.4 54.6

Manual Integrations
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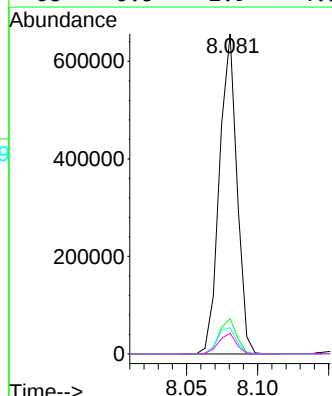
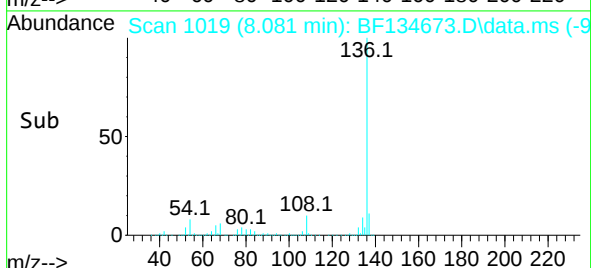
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55



Tgt Ion:136 Resp: 561443
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.2 5.2 7.8#
68 6.5 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 0.472 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

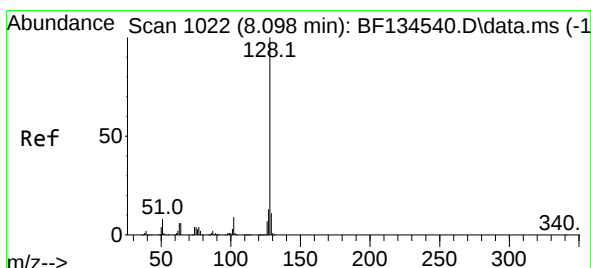
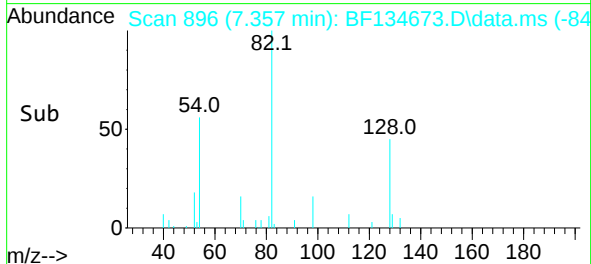
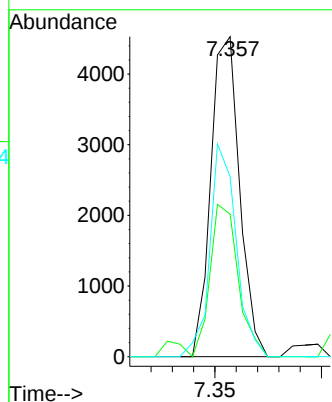
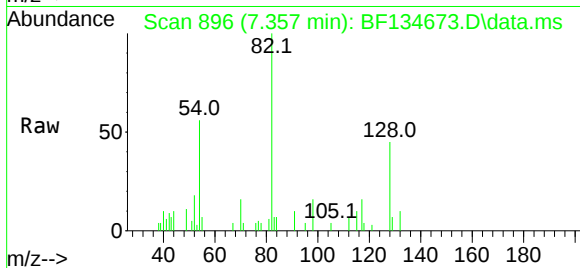
Tgt Ion: 82	Resp: 424
Ion Ratio	Lower Upper
82 100	
128 44.6	34.3 51.5
54 56.3	43.8 65.6

Manual Integrations

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Supervised By :mohammad ahmed 08/09/2023



#31

Naphthalene

Concen: 58.461 ng

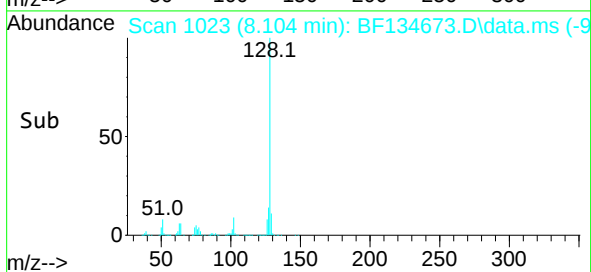
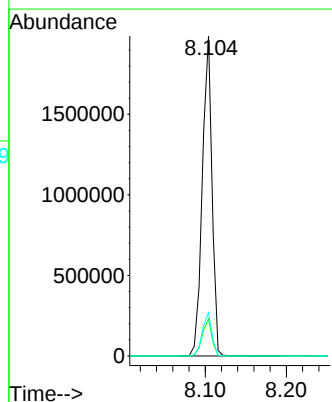
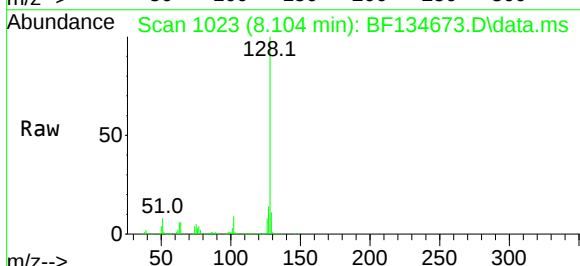
RT: 8.104 min Scan# 1023

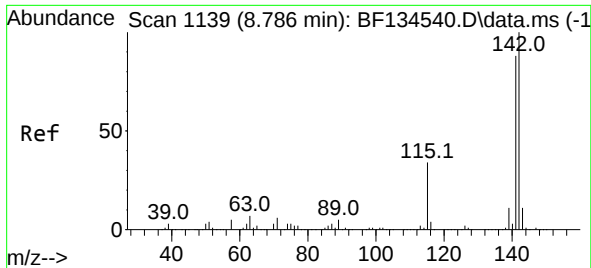
Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Tgt Ion:128	Resp: 1649604
Ion Ratio	Lower Upper
128 100	
129 11.5	8.4 12.6
127 13.5	10.7 16.1





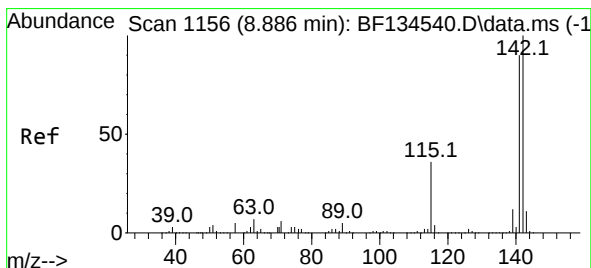
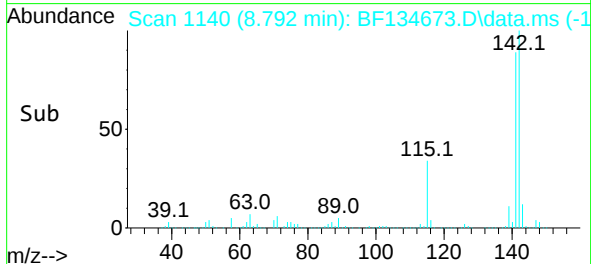
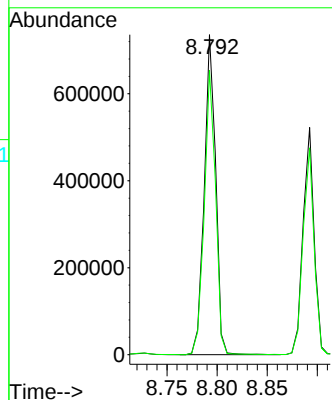
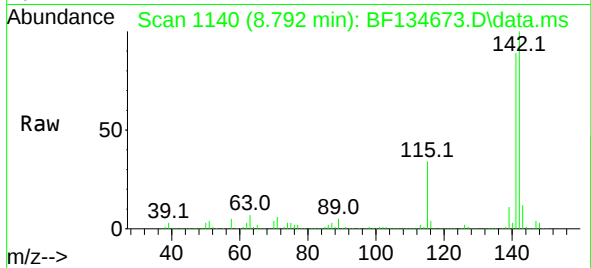
#37
2-Methylnaphthalene
Concen: 31.199 ng
RT: 8.792 min Scan# 1139
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Instrument :
BNA_F
ClientSampleId :
DUP-01DL

Tgt Ion:142 Resp: 583530
Ion Ratio Lower Upper
142 100
141 88.9 70.8 106.2

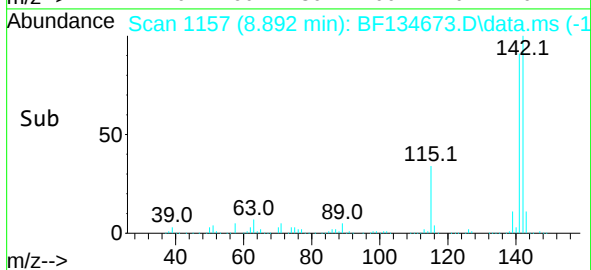
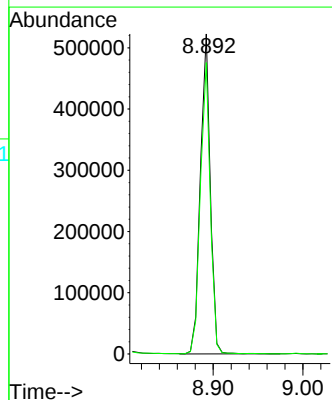
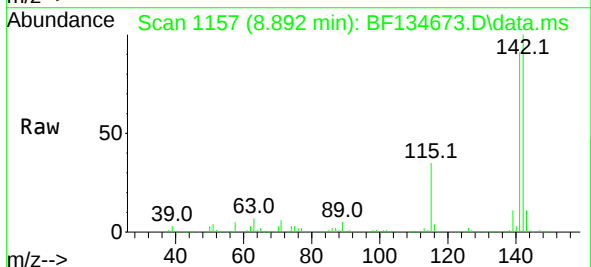
Manual Integrations
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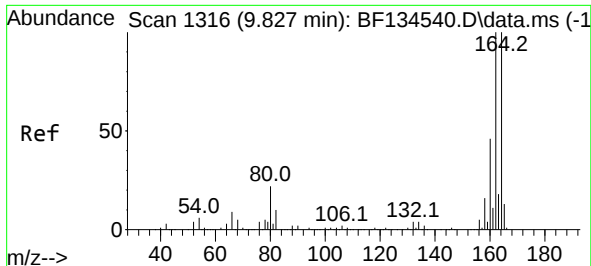
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023



#38
1-Methylnaphthalene
Concen: 23.053 ng
RT: 8.892 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:142 Resp: 400947
Ion Ratio Lower Upper
142 100
141 91.0 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: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

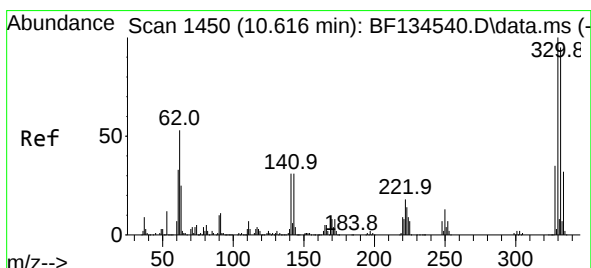
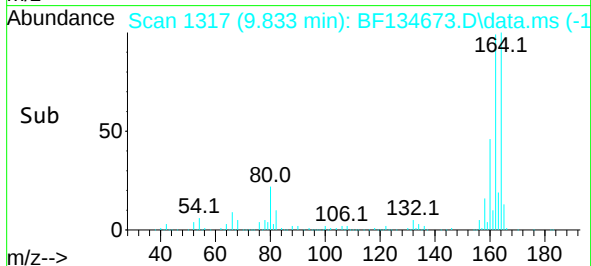
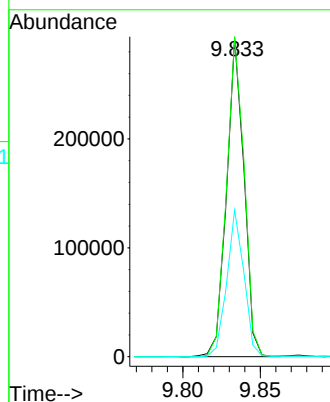
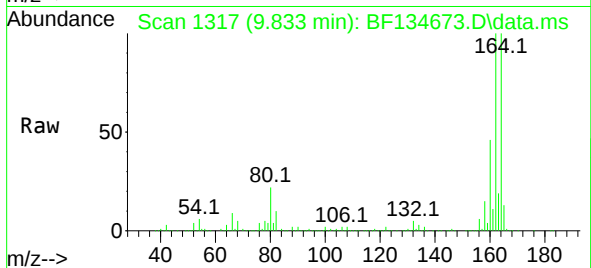
Tgt Ion:164	Resp: 22894
Ion Ratio	Lower Upper
164 100	
162 100.3	82.6 123.8
160 45.9	37.2 55.8

Manual Integrations

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Supervised By :mohammad ahmed 08/09/2023



#42

2,4,6-Tribromophenol

Concen: 0.446 ng

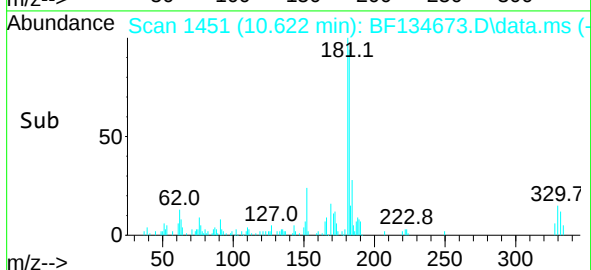
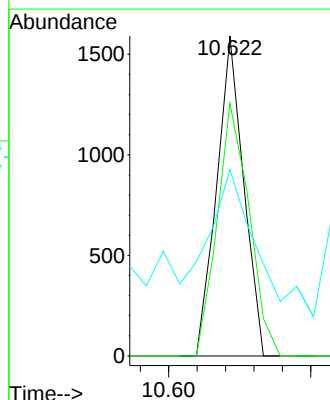
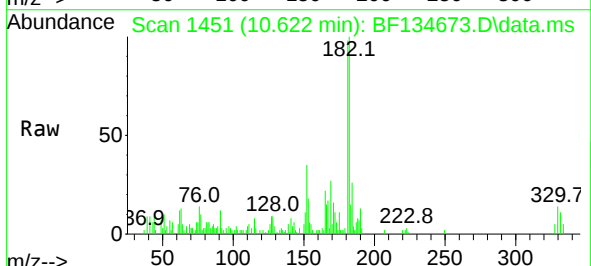
RT: 10.622 min Scan# 1451

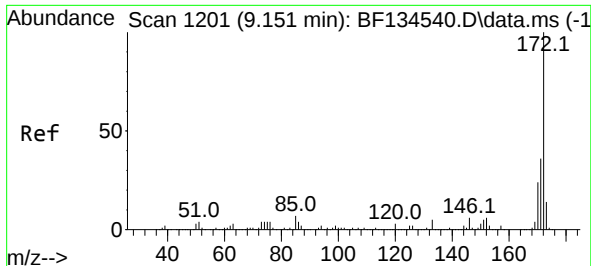
Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Tgt Ion:330	Resp: 1041
Ion Ratio	Lower Upper
330 100	
332 94.0	78.8 118.2
141 61.0	25.4 38.2





#45

2-Fluorobiphenyl

Concen: 0.602 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134673.D

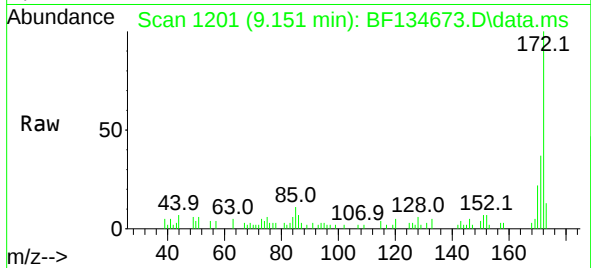
Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL



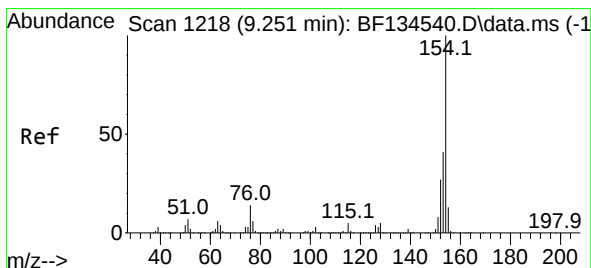
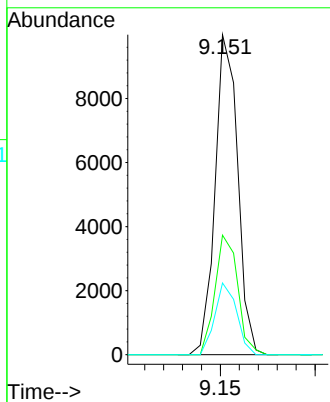
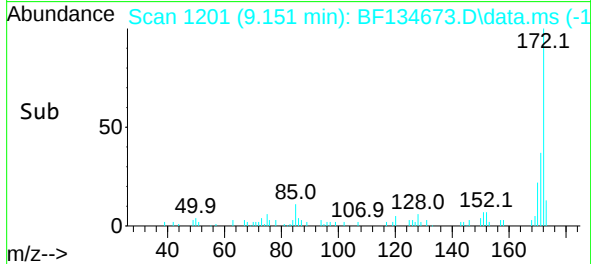
Tgt Ion:	172	Resp:	8284
Ion Ratio	100	Lower	Upper
172	100		
171	37.3	28.8	43.2
170	22.4	18.7	28.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/09/2023

Supervised By :mohammad ahmed 08/09/2023



#46

1,1'-Biphenyl

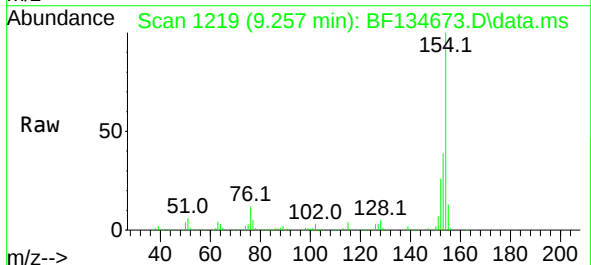
Concen: 8.299 ng

RT: 9.257 min Scan# 1219

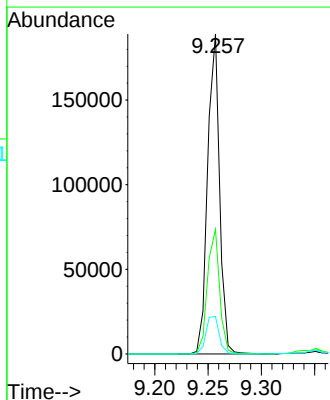
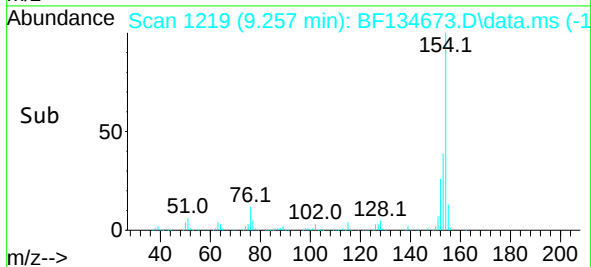
Delta R.T. -0.006 min

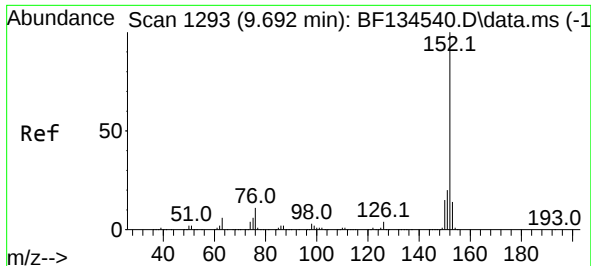
Lab File: BF134673.D

Acq: 08 Aug 2023 15:55



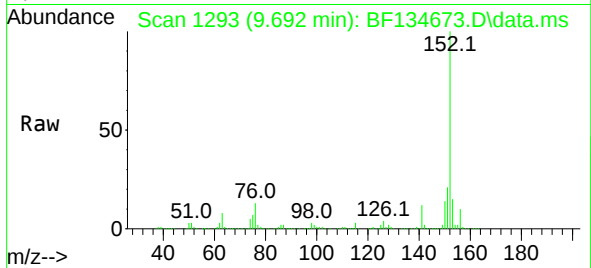
Tgt Ion:	154	Resp:	147761
Ion Ratio	100	Lower	Upper
154	100		
153	39.0	20.8	60.8
76	11.7	0.0	30.2





#49
Acenaphthylene
Concen: 14.370 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

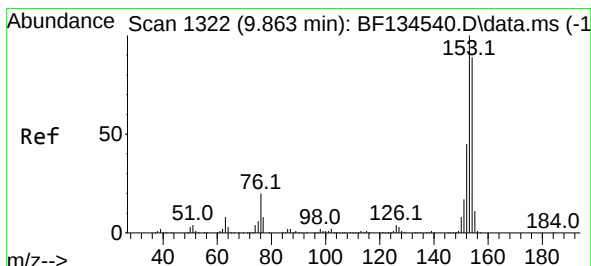
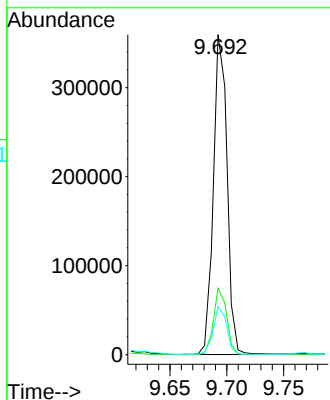
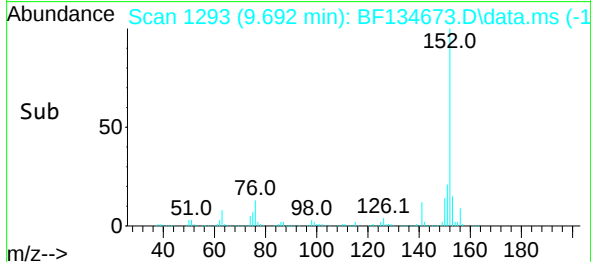
Instrument :
BNA_F
ClientSampleId :
DUP-01DL



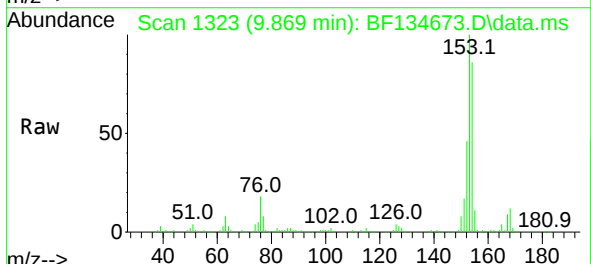
Tgt Ion:152 Resp: 30133
Ion Ratio Lower Upper
152 100
151 20.8 16.4 24.6
153 15.0 10.9 16.3

Manual Integrations
APPROVED

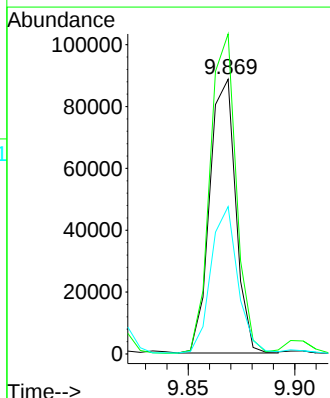
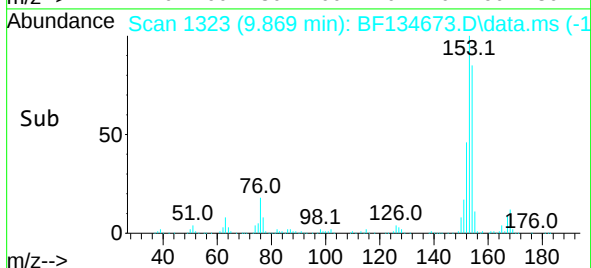
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023

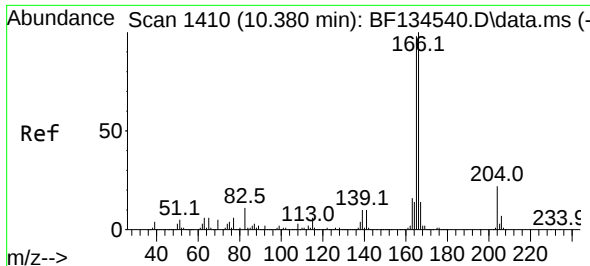


#52
Acenaphthene
Concen: 5.539 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55



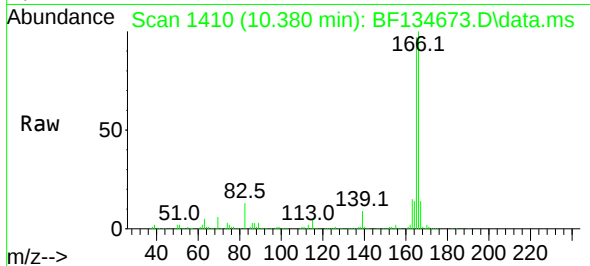
Tgt Ion:154 Resp: 75275
Ion Ratio Lower Upper
154 100
153 116.5 90.0 135.0
152 53.6 42.4 63.6





#58
Fluorene
Concen: 17.886 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

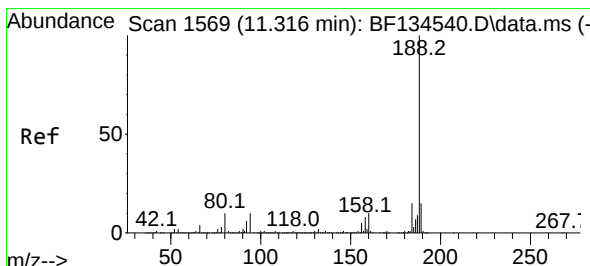
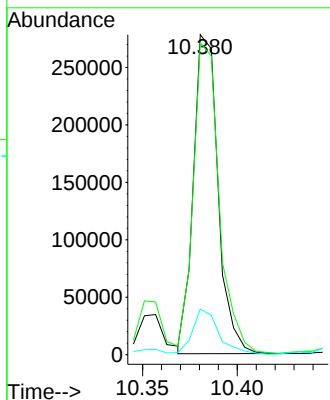
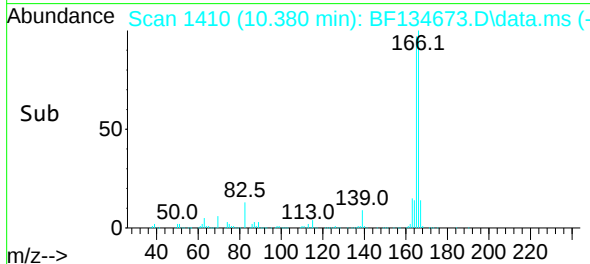
Instrument :
BNA_F
ClientSampleId :
DUP-01DL



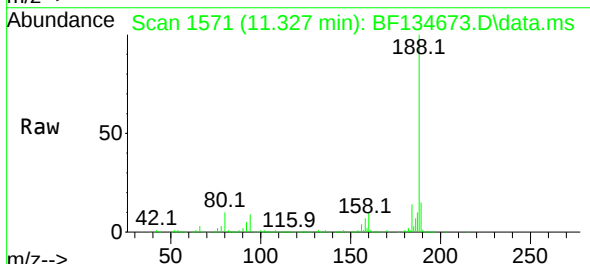
Tgt Ion:166 Resp: 25202
Ion Ratio Lower Upper
166 100
165 97.5 74.5 111.7
167 14.3 10.6 16.0

Manual Integrations
APPROVED

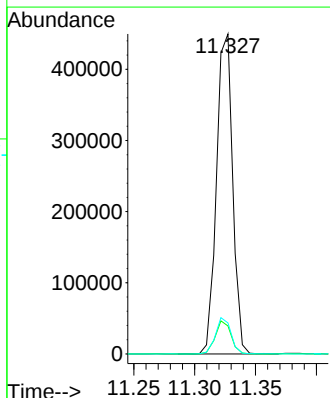
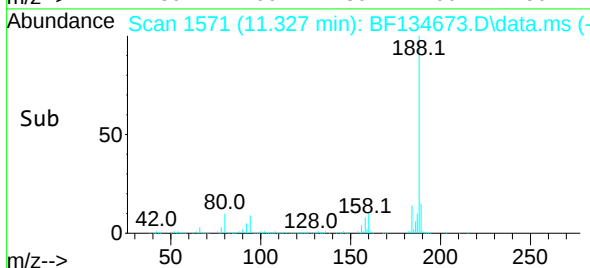
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023

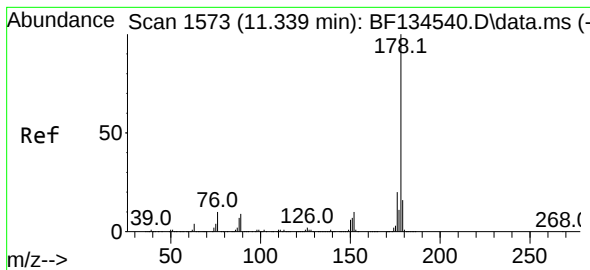


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55



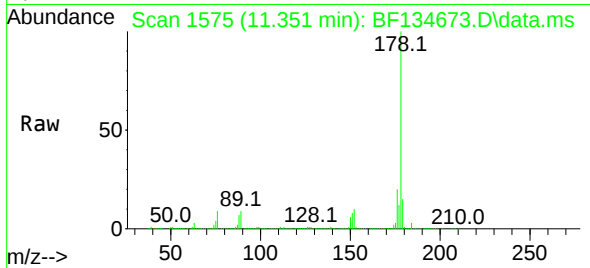
Tgt Ion:188 Resp: 417066
Ion Ratio Lower Upper
188 100
94 8.8 5.1 7.7#
80 9.7 6.6 9.8





#71
Phenanthrene
Concen: 52.887 ng
RT: 11.351 min Scan# 11351
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

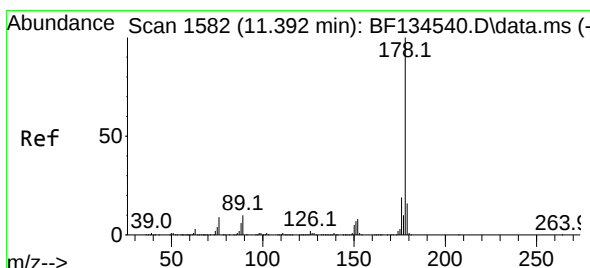
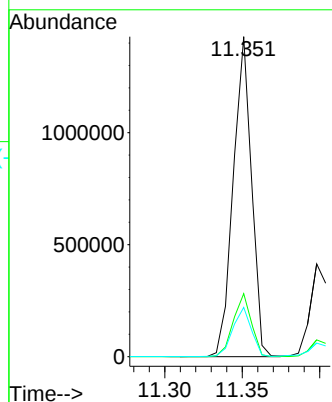
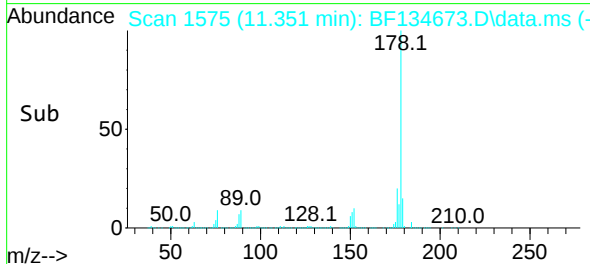
Instrument :
BNA_F
ClientSampleId :
DUP-01DL



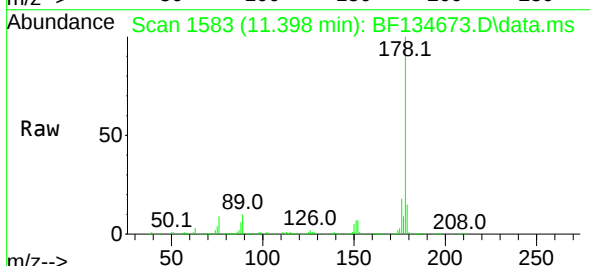
Tgt Ion:178 Resp: 1171599
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.4 12.7 19.1

Manual Integrations
APPROVED

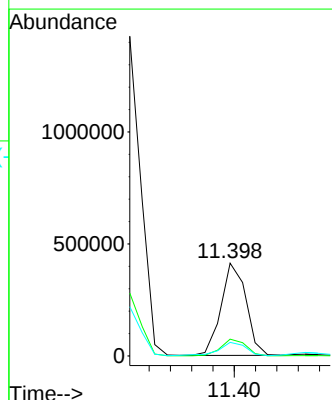
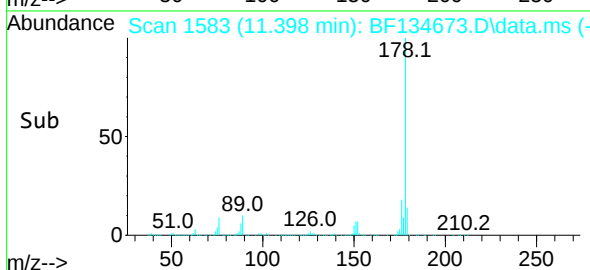
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023

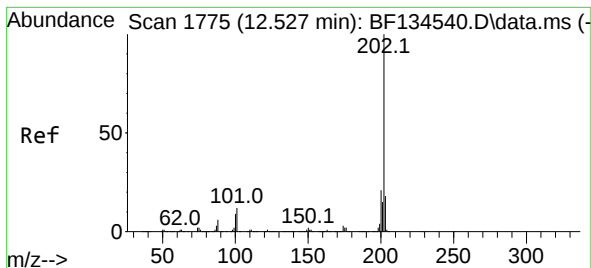


#72
Anthracene
Concen: 14.894 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55



Tgt Ion:178 Resp: 337033
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 14.7 12.3 18.5





#75

Fluoranthene

Concen: 19.835 ng

RT: 12.539 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

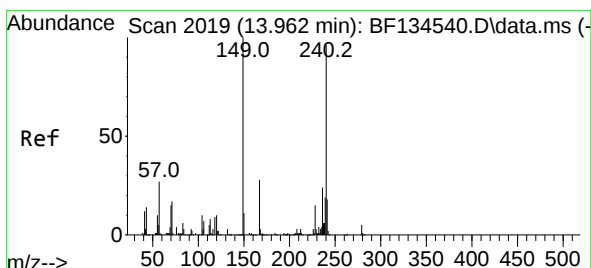
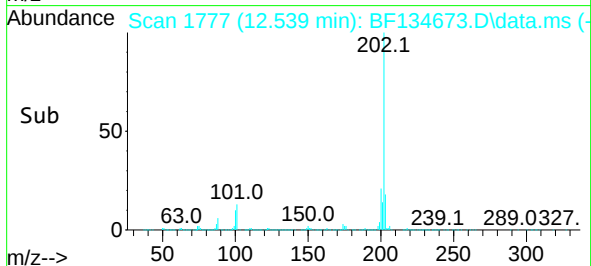
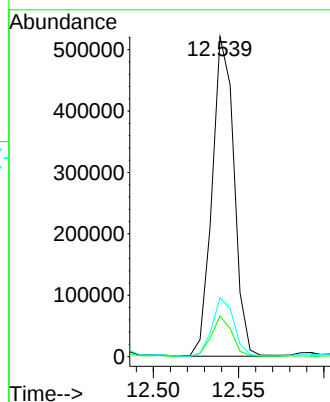
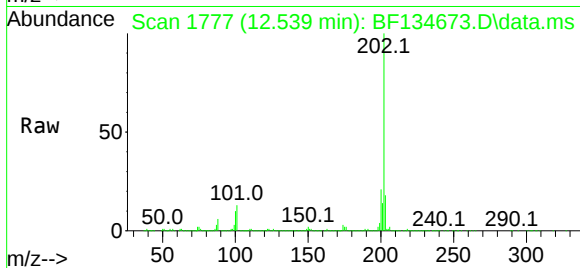
Tgt Ion:202 Resp: 46413
 Ion Ratio Lower Upper
 202 100
 101 12.7 0.0 28.5
 203 18.4 0.0 37.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/09/2023

Supervised By :mohammad ahmed 08/09/2023



#76

Chrysene-d12

Concen: 20.000 ng

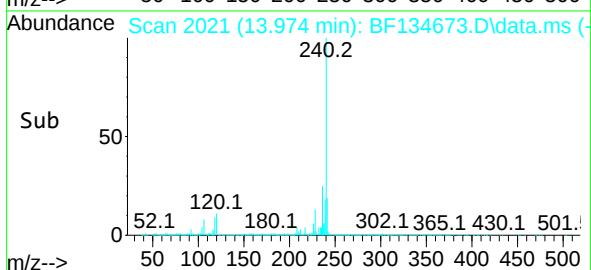
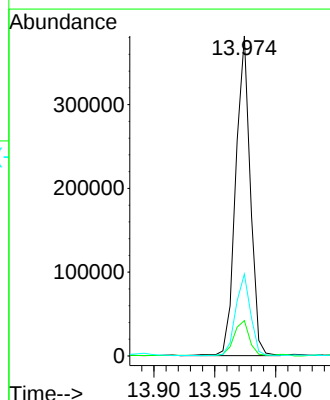
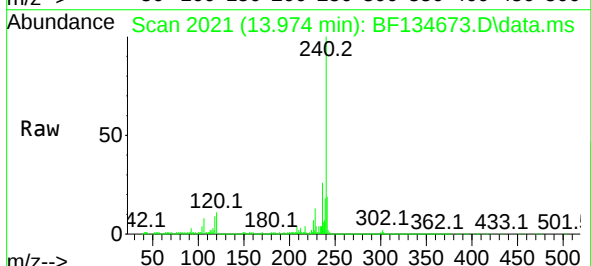
RT: 13.974 min Scan# 2021

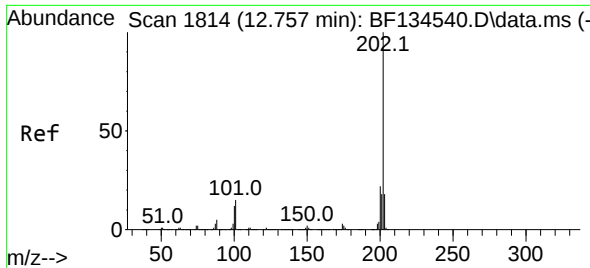
Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Tgt Ion:240 Resp: 316790
 Ion Ratio Lower Upper
 240 100
 120 11.0 6.6 10.0#
 236 25.6 20.2 30.2





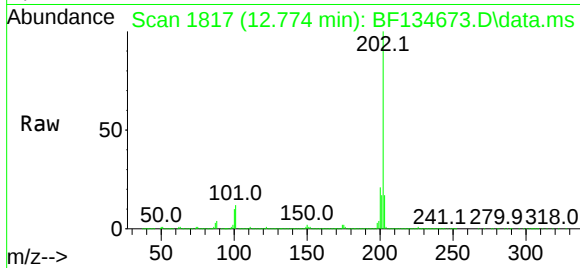
#78
Pyrene
Concen: 29.761 ng
RT: 12.774 min Scan# 1817
Delta R.T. 0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

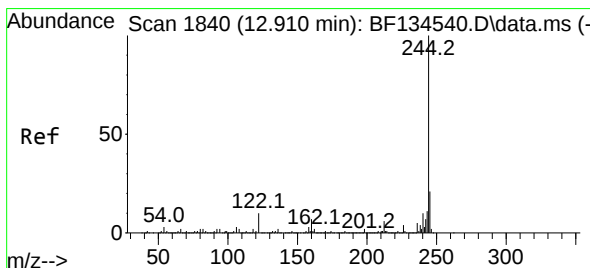
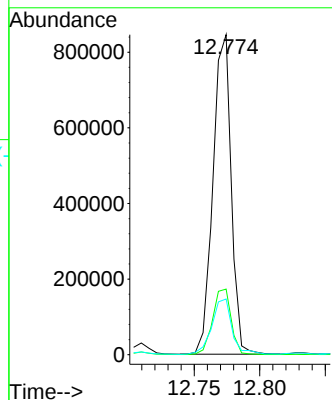
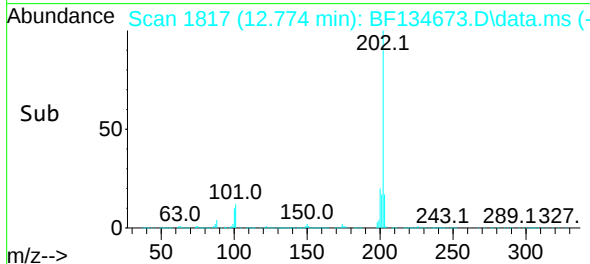


Tgt Ion:202 Resp: 815804
Ion Ratio Lower Upper
202 100
200 20.5 15.8 23.8
203 17.4 13.5 20.3

Manual Integrations

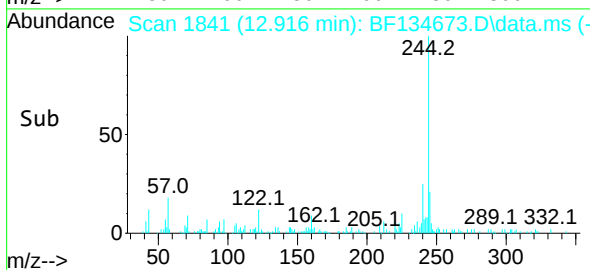
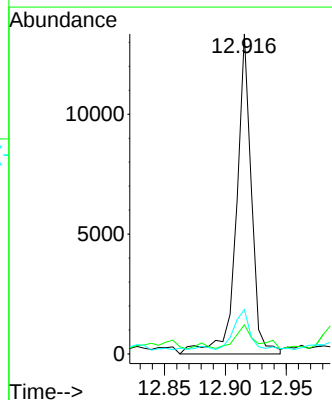
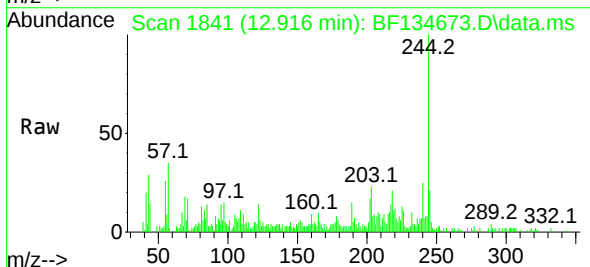
APPROVED

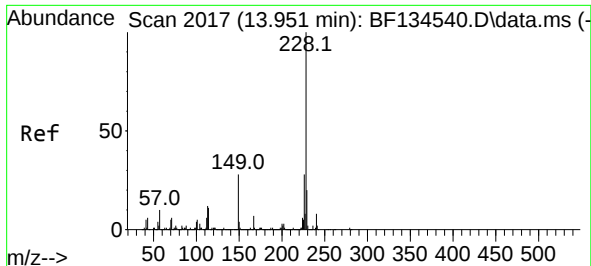
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023



#79
Terphenyl-d14
Concen: 0.636 ng
RT: 12.916 min Scan# 1841
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:244 Resp: 11425
Ion Ratio Lower Upper
244 100
212 9.1 5.6 8.4#
122 13.9 8.0 12.0#





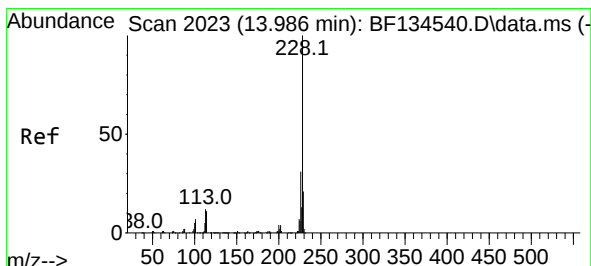
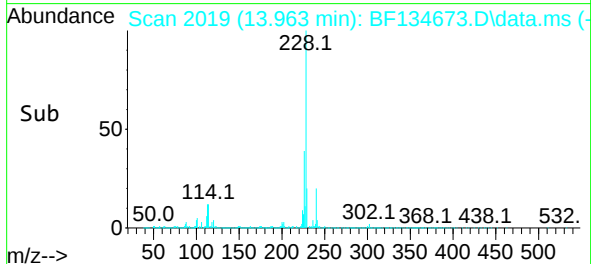
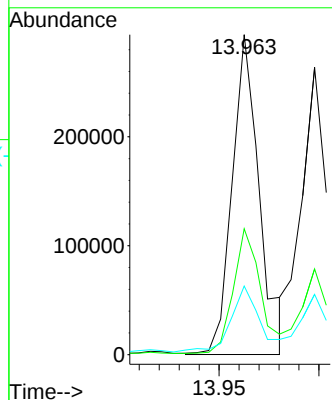
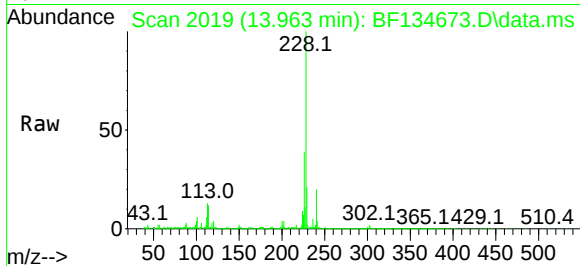
#81
Benzo(a)anthracene
Concen: 12.266 ng m
RT: 13.963 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Instrument :
BNA_F
ClientSampleId :
DUP-01DL

Tgt Ion:228 Resp: 277858
Ion Ratio Lower Upper
228 100
226 39.4 22.3 33.5
229 21.5 15.8 23.6

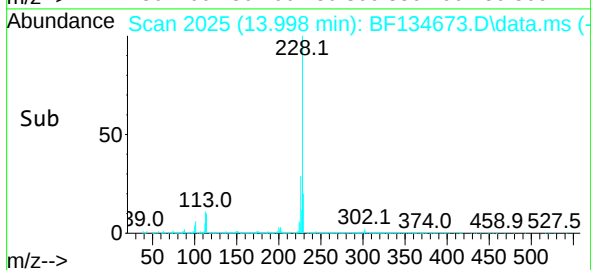
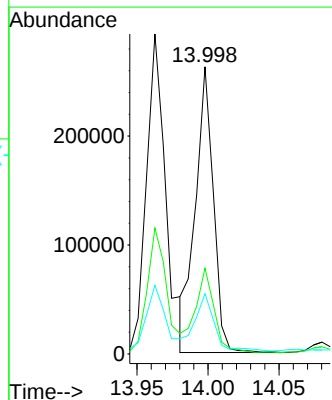
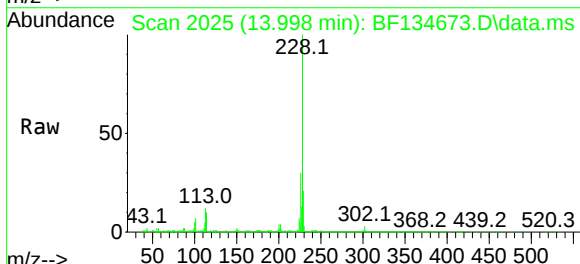
Manual Integrations
APPROVED

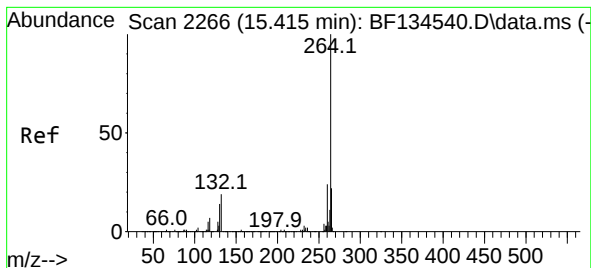
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023



#83
Chrysene
Concen: 10.492 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:228 Resp: 231545
Ion Ratio Lower Upper
228 100
226 29.8 24.5 36.7
229 21.0 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

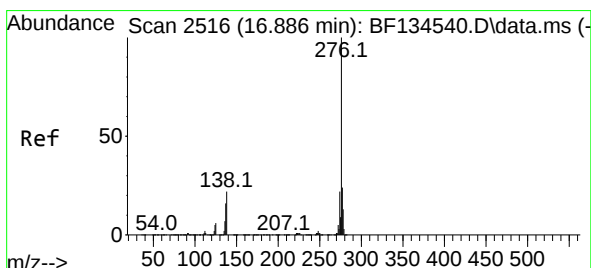
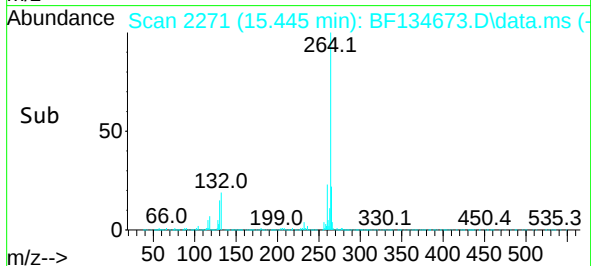
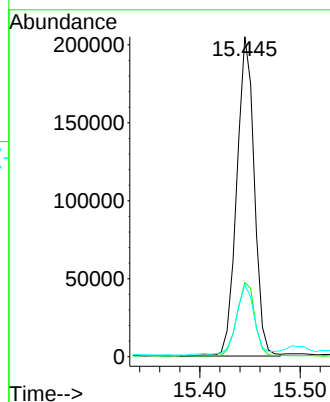
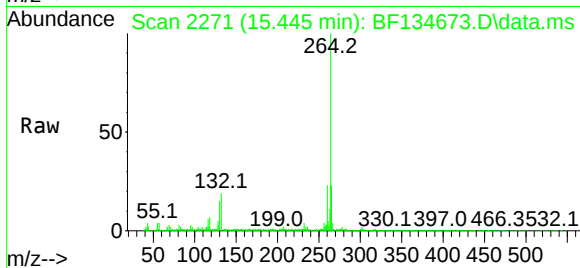
Tgt Ion:	264	Resp:	248974
Ion Ratio	Lower	Upper	
264	100		
260	23.1	18.4	27.6
265	22.5	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/09/2023

Supervised By :mohammad ahmed 08/09/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.533 ng

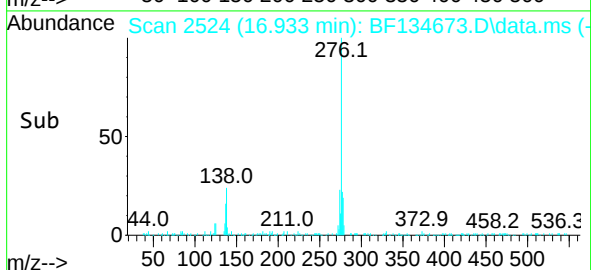
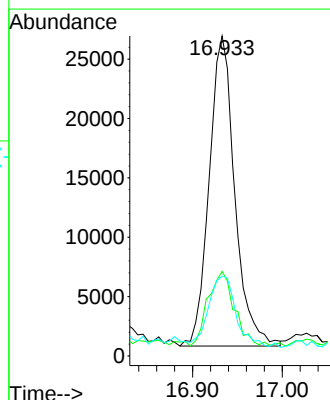
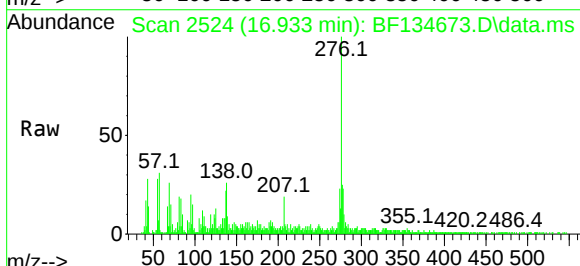
RT: 16.933 min Scan# 2524

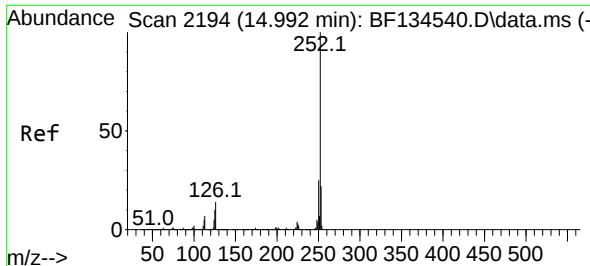
Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

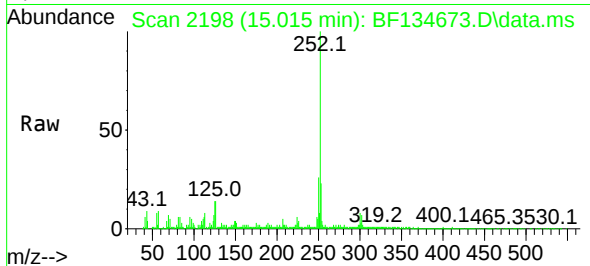
Tgt Ion:	276	Resp:	51731
Ion Ratio	Lower	Upper	
276	100		
138	24.6	14.2	21.4#
277	23.7	19.9	29.9





#88
Benzo(b)fluoranthene
Concen: 9.006 ng m
RT: 15.015 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

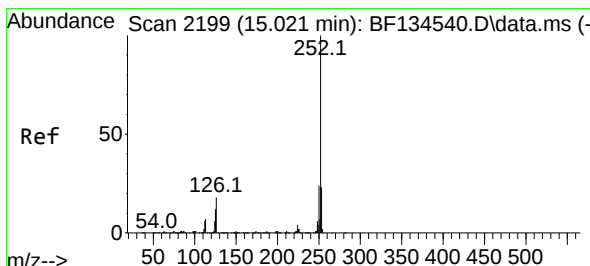
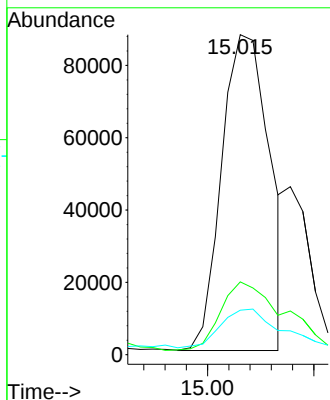
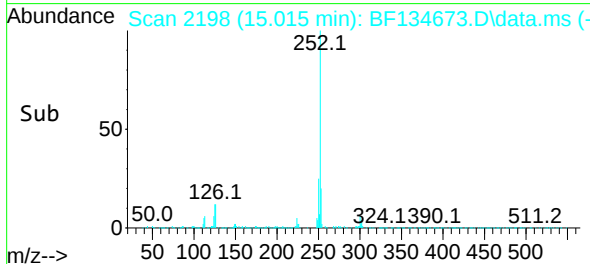
Instrument :
BNA_F
ClientSampleId :
DUP-01DL



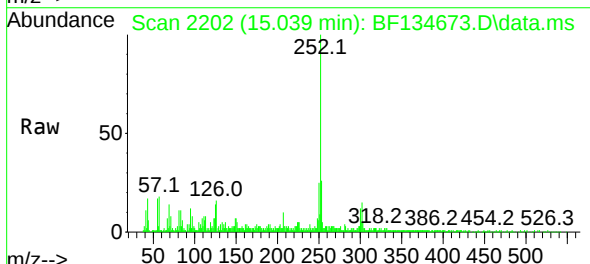
Tgt Ion:252 Resp: 136748
Ion Ratio Lower Upper
252 100
253 22.7 17.3 25.9
125 13.9 6.0 9.0

Manual Integrations
APPROVED

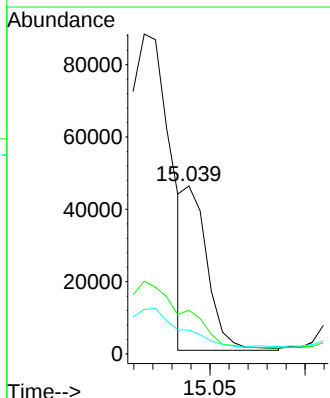
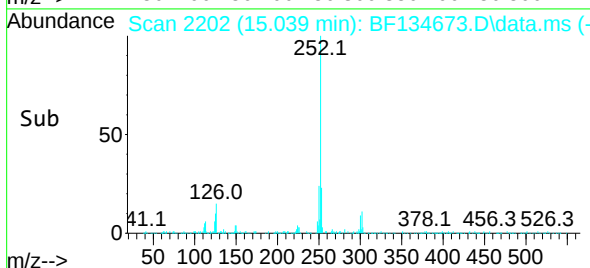
Reviewed By :Yogesh Patel 08/09/2023
Supervised By :mohammad ahmed 08/09/2023

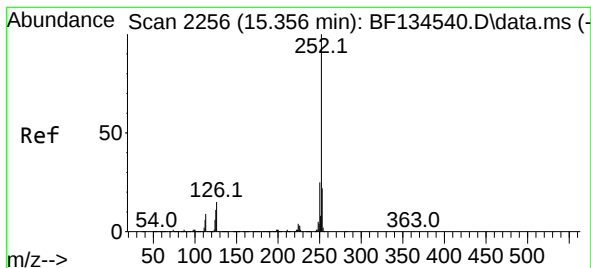


#89
Benzo(k)fluoranthene
Concen: 2.574 ng m
RT: 15.039 min Scan# 2202
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55



Tgt Ion:252 Resp: 38942
Ion Ratio Lower Upper
252 100
253 26.0 17.9 26.9
125 14.2 6.3 9.5





#90

Benzo(a)pyrene

Concen: 10.953 ng

RT: 15.380 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

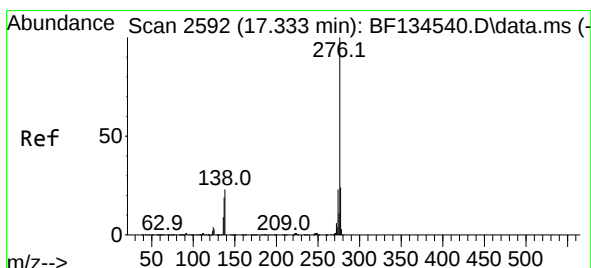
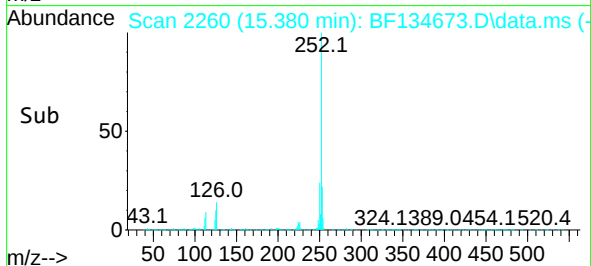
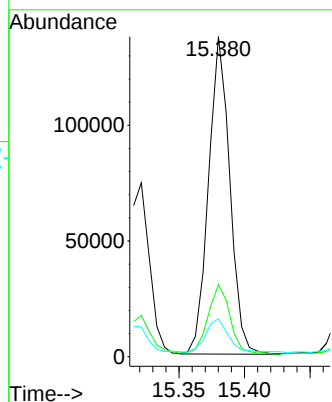
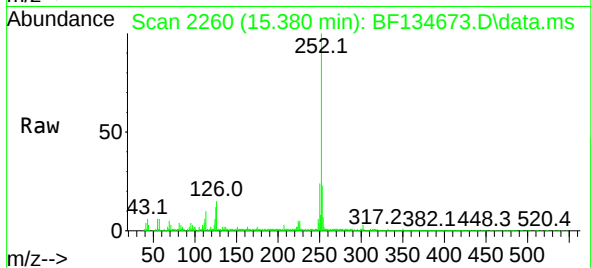
Tgt Ion:	252	Resp:	155070
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.0	25.4
125	11.9	6.2	9.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/09/2023

Supervised By :mohammad ahmed 08/09/2023



#92

Benzo(g,h,i)perylene

Concen: 4.539 ng

RT: 17.380 min Scan# 2600

Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Tgt Ion:	276	Resp:	54790
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.0	28.6
138	28.3	12.2	18.2

