

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072623\
 Data File : BF134499.D
 Acq On : 27 Jul 2023 00:32
 Operator : CG\JU
 Sample : 03580-02DL 50X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SAMPLE-1DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/27/2023
 Supervised By :mohammad ahmed 07/27/2023

Quant Time: Jul 27 01:59:51 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 01:46:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	70759	20.000	ng	-0.01
21) Naphthalene-d8	8.099	136	251691	20.000	ng	#-0.02
39) Acenaphthene-d10	9.857	164	113370	20.000	ng	-0.02
64) Phenanthrene-d10	11.351	188	252504	20.000	ng	-0.02
76) Chrysene-d12	14.010	240	133480	20.000	ng	-0.02
86) Perylene-d12	15.510	264	140296	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	10636	2.483	ng	0.02
7) Phenol-d6	6.487	99	11543	2.200	ng	0.00
23) Nitrobenzene-d5	7.393	82	7067	1.421	ng	-0.01
42) 2,4,6-Tribromophenol	10.657	330	2530	1.571	ng	-0.01
45) 2-Fluorobiphenyl	9.175	172	17343	2.008	ng	-0.02
79) Terphenyl-d14	12.945	244	17086	2.235	ng	-0.02
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.816	142	32149	3.694	ng	99
38) 1-Methylnaphthalene	8.910	142	30677	3.799	ng	99
52) Acenaphthene	9.887	154	14820	2.156	ng	92
58) Fluorene	10.410	166	69621	8.156	ng	97
71) Phenanthrene	11.375	178	496535	37.636	ng	98
72) Anthracene	11.428	178	83316	6.119	ng	99
75) Fluoranthene	12.575	202	421401	27.407	ng	100
78) Pyrene	12.804	202	556840	52.466	ng	99
81) Benzo(a)anthracene	14.004	228	235779	25.318	ng	97
83) Chrysene	14.039	228	216957	24.357	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	80155	8.745	ng	98
88) Benzo(b)fluoranthene	15.069	252	236984m	27.001	ng	
89) Benzo(k)fluoranthene	15.092	252	68935m	7.986	ng	
90) Benzo(a)pyrene	15.445	252	190880	23.528	ng	98
91) Dibenzo(a,h)anthracene	17.039	278	25483m	3.443	ng	
92) Benzo(g,h,i)perylene	17.504	276	79917	10.515	ng	97

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

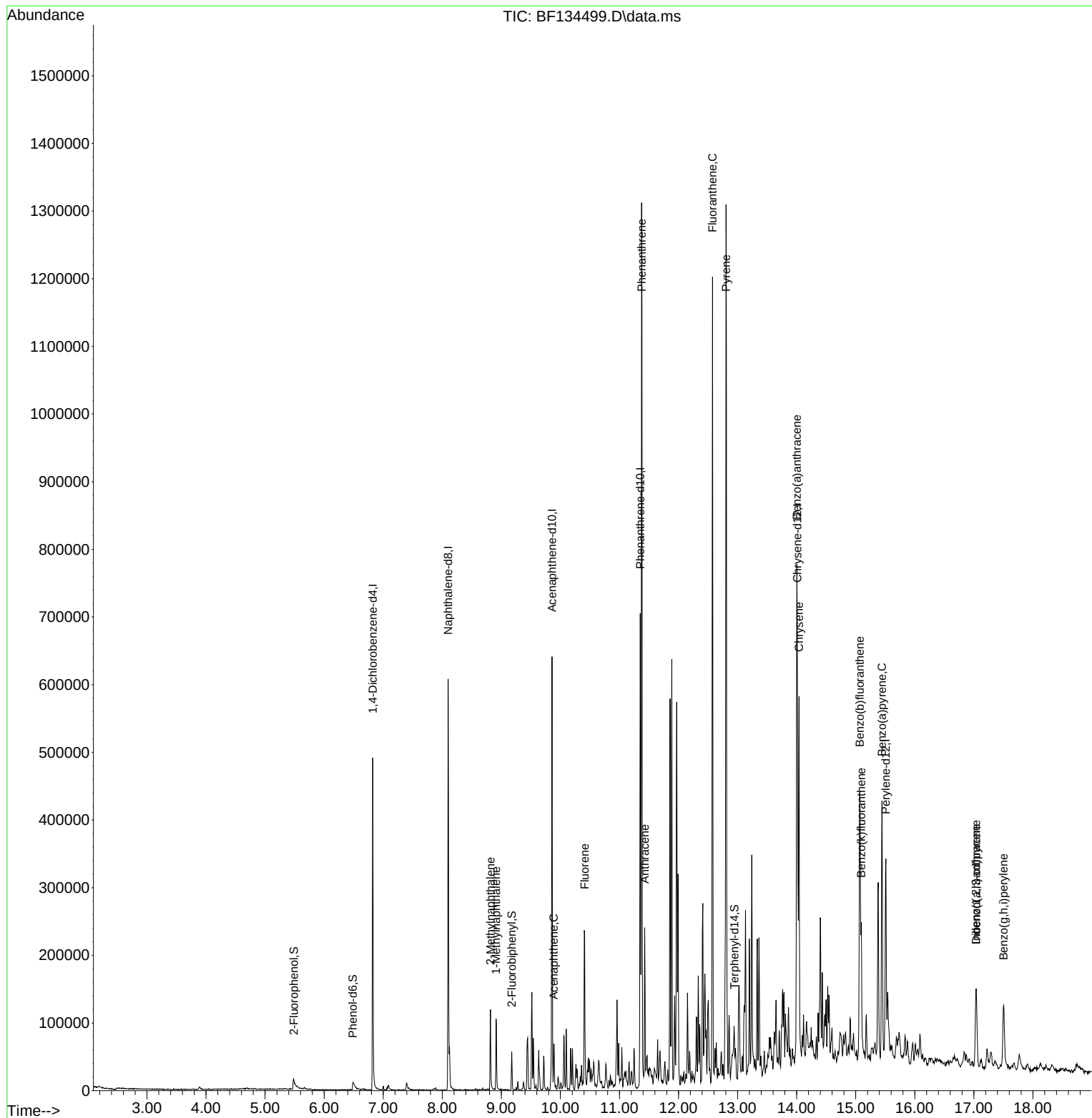
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Data File : BF134499.D
Acq On : 27 Jul 2023 00:32
Operator : CG\JU
Sample : 03580-02DL 50X
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ALS Vial : 22 Sample Multiplier: 1

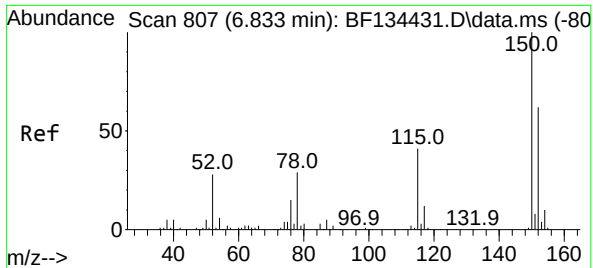
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1DL

Quant Time: Jul 27 01:59:51 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
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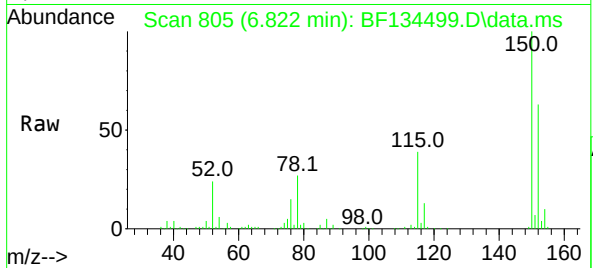
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 807
Delta R.T. -0.011 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

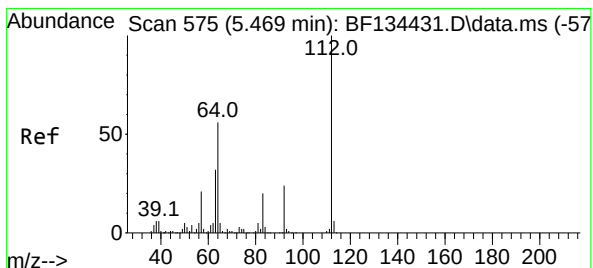
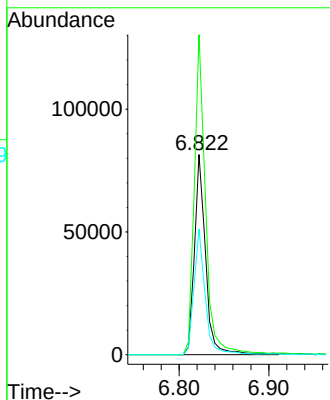
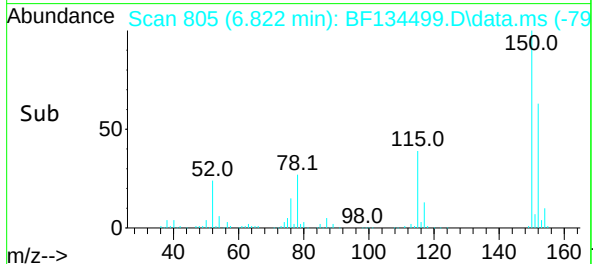


Tgt Ion:152 Resp: 70759
Ion Ratio Lower Upper
152 100
150 159.9 128.3 192.5
115 62.7 52.4 78.6

Manual Integrations

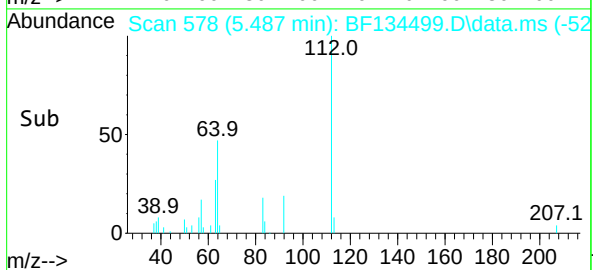
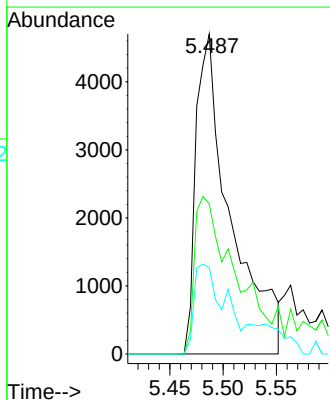
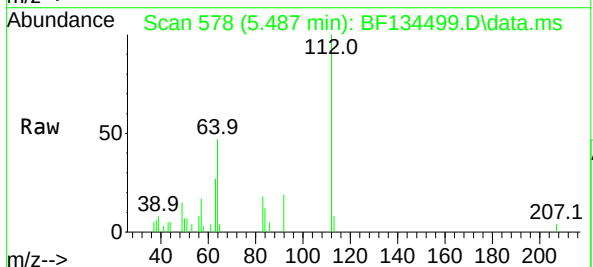
APPROVED

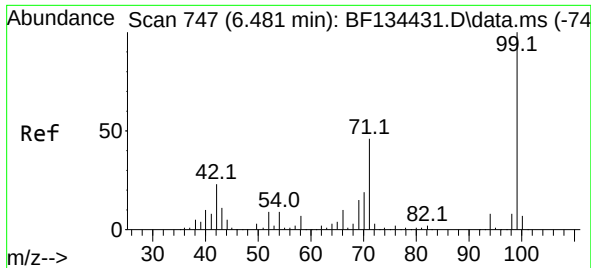
Reviewed By :Yogesh Patel 07/27/2023
Supervised By :mohammad ahmed 07/27/2023



#5
2-Fluorophenol
Concen: 2.483 ng
RT: 5.487 min Scan# 578
Delta R.T. 0.018 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

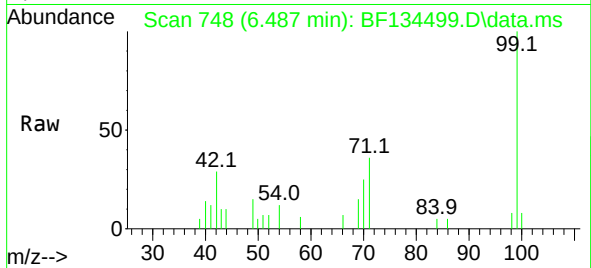
Tgt Ion:112 Resp: 10636
Ion Ratio Lower Upper
112 100
64 46.9 44.9 67.3
63 27.0 25.4 38.0





#7
Phenol-d6
Concen: 2.200 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

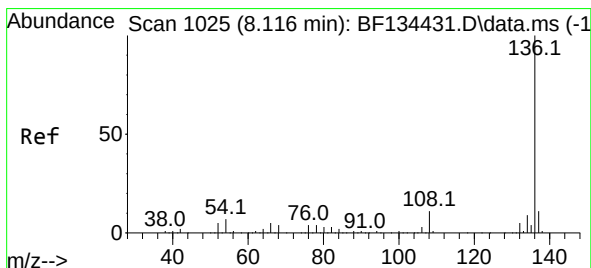
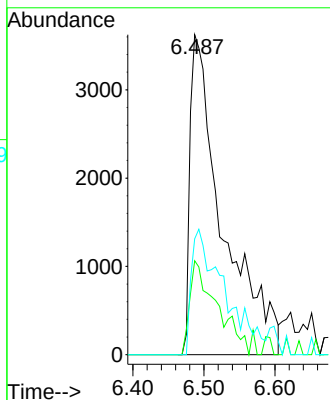
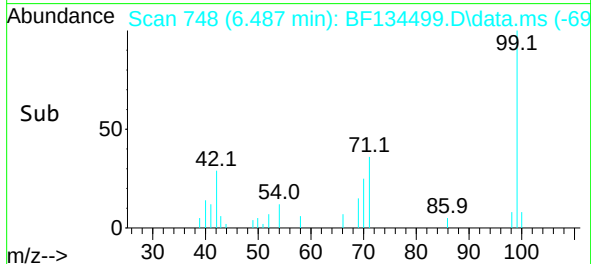
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1DL



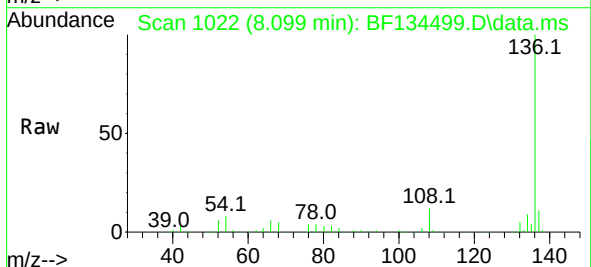
Tgt Ion: 99 Resp: 1154
Ion Ratio Lower Upper
99 100
42 29.3 18.7 28.1
71 36.2 36.4 54.6

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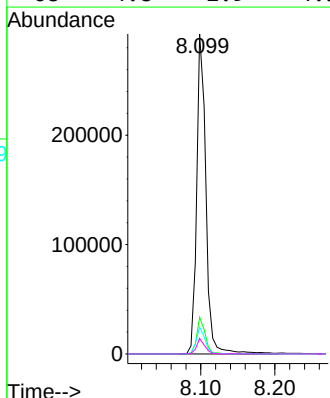
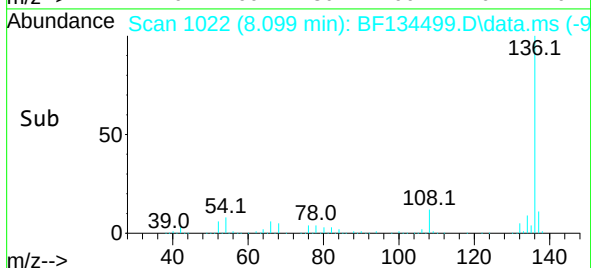
Reviewed By :Yogesh Patel 07/27/2023
Supervised By :mohammad ahmed 07/27/2023

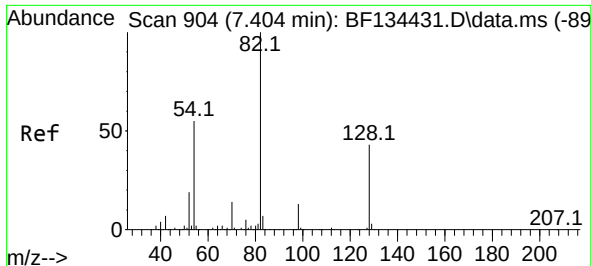


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.099 min Scan# 1022
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32



Tgt Ion:136 Resp: 251691
Ion Ratio Lower Upper
136 100
137 11.4 8.4 12.6
54 8.4 5.2 7.8#
68 4.8 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 1.421 ng

RT: 7.393 min Scan# 904

Delta R.T. -0.011 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

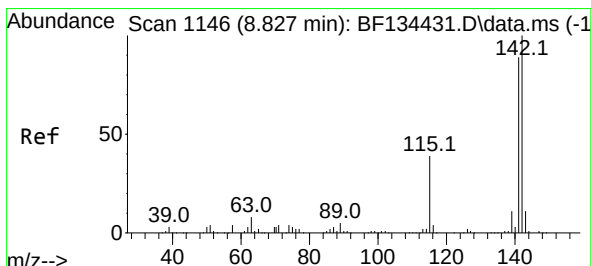
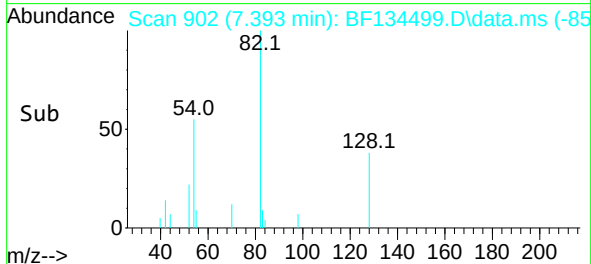
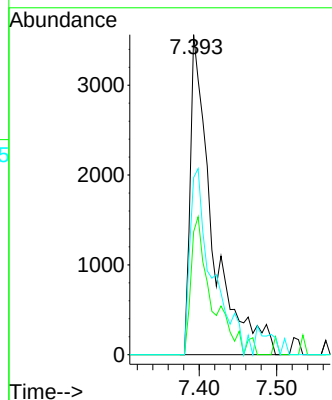
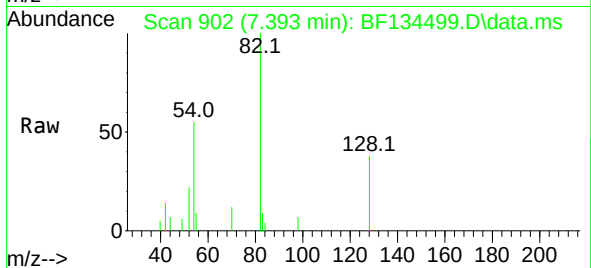
Tgt Ion: 82	Resp: 706
Ion Ratio	Lower Upper
82	100
128	38.4 34.3 51.5
54	55.3 43.8 65.6

Manual Integrations

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Reviewed By :Yogesh Patel 07/27/2023

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#37

2-Methylnaphthalene

Concen: 3.694 ng

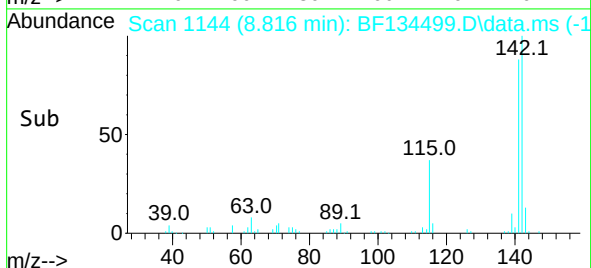
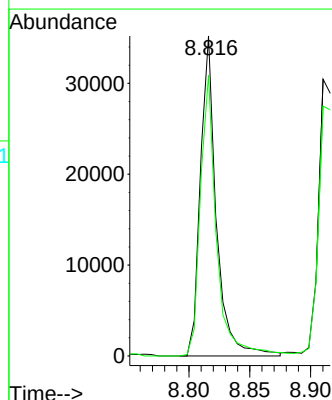
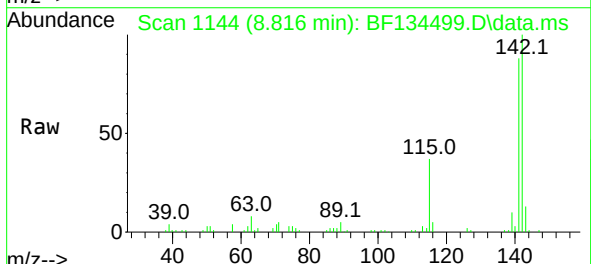
RT: 8.816 min Scan# 1144

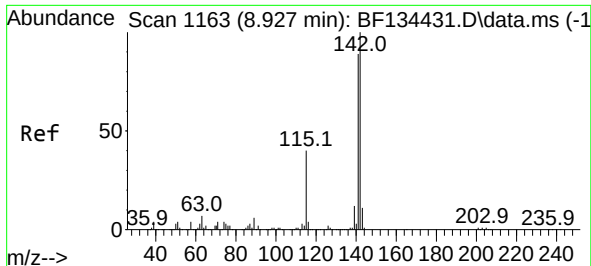
Delta R.T. -0.011 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Tgt Ion:142	Resp: 32149
Ion Ratio	Lower Upper
142	100
141	87.8 70.8 106.2





#38
1-Methylnaphthalene
Concen: 3.799 ng
RT: 8.910 min Scan# 1163
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

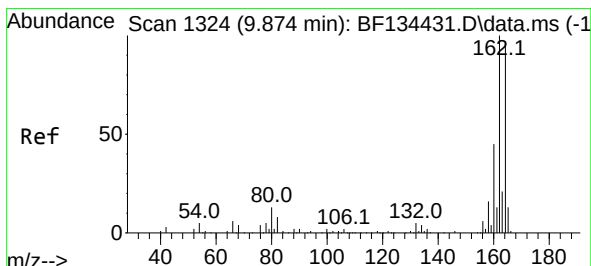
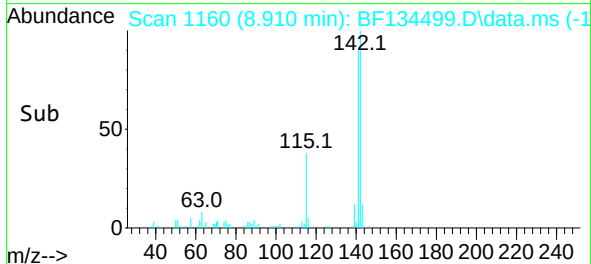
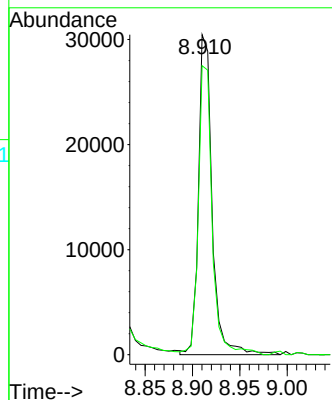
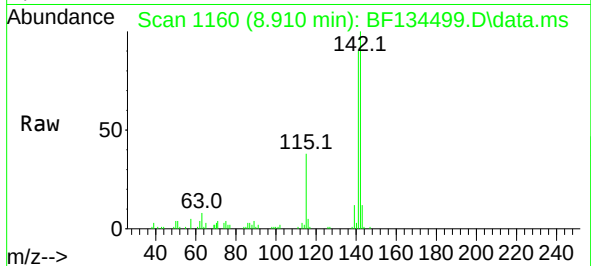
ClientSampleId :

SAMPLE-1DL

Tgt Ion:142 Resp: 3067
Ion Ratio Lower Upper
142 100
141 90.3 71.4 107.2

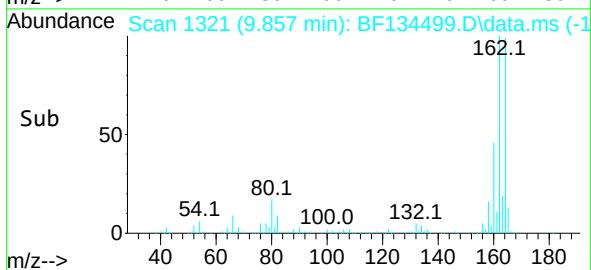
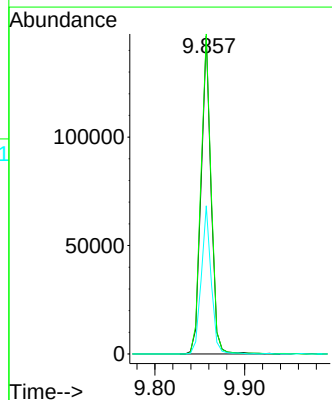
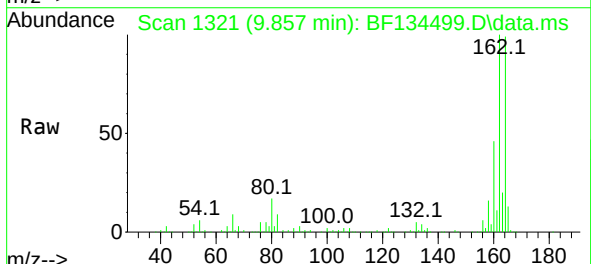
Manual Integrations
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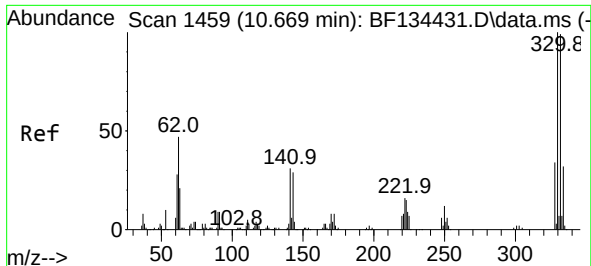
Reviewed By :Yogesh Patel 07/27/2023
Supervised By :mohammad ahmed 07/27/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Tgt Ion:164 Resp: 113370
Ion Ratio Lower Upper
164 100
162 100.7 82.6 123.8
160 46.6 37.2 55.8





#42
2,4,6-Tribromophenol
Concen: 1.571 ng
RT: 10.657 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

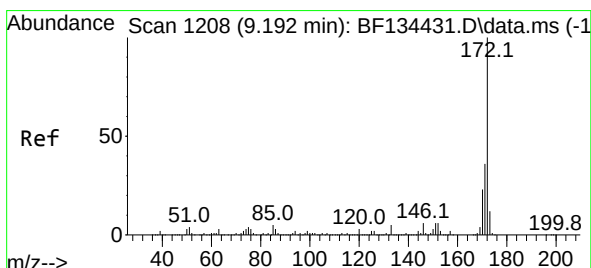
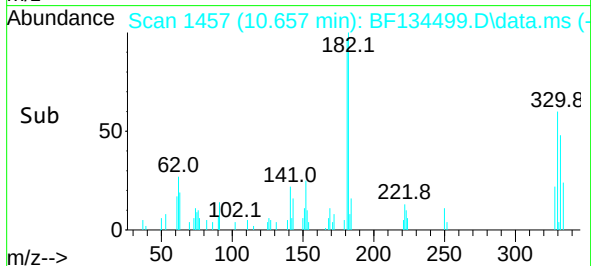
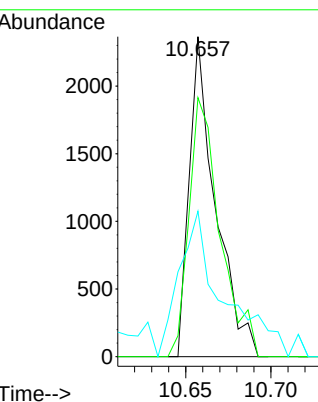
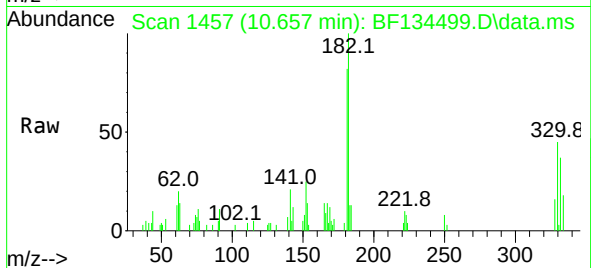
Tgt Ion:330 Resp: 2530
Ion Ratio Lower Upper
330 100
332 96.2 78.8 118.2
141 78.3 25.4 38.2

Manual Integrations

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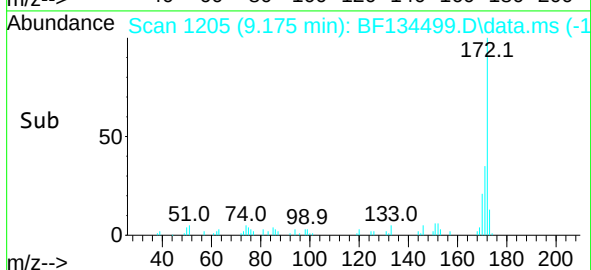
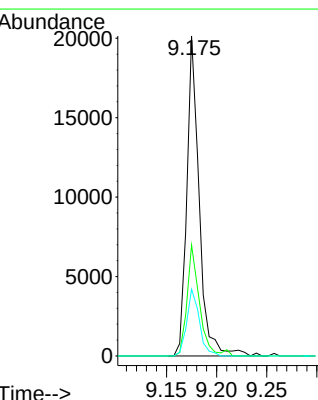
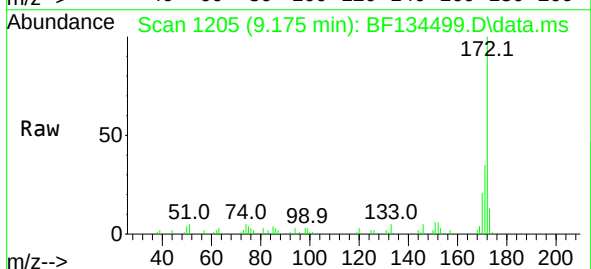
Reviewed By :Yogesh Patel 07/27/2023

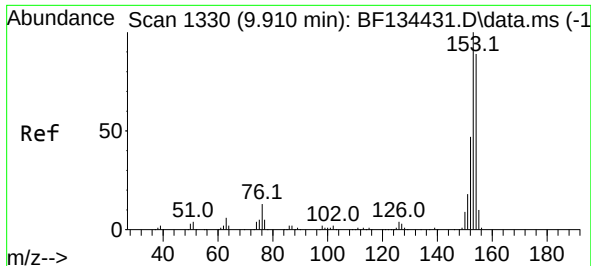
Supervised By :mohammad ahmed 07/27/2023



#45
2-Fluorobiphenyl
Concen: 2.008 ng
RT: 9.175 min Scan# 1205
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Tgt Ion:172 Resp: 17343
Ion Ratio Lower Upper
172 100
171 34.7 28.8 43.2
170 20.9 18.7 28.1





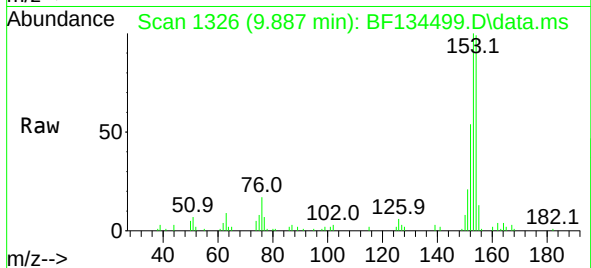
#52
Acenaphthene
Concen: 2.156 ng
RT: 9.887 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

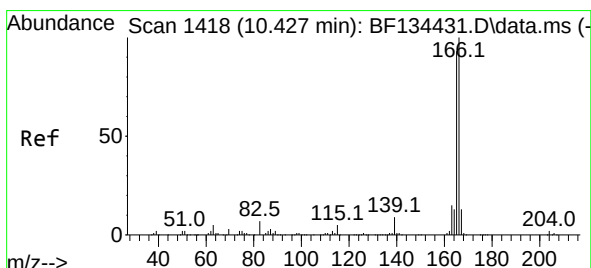
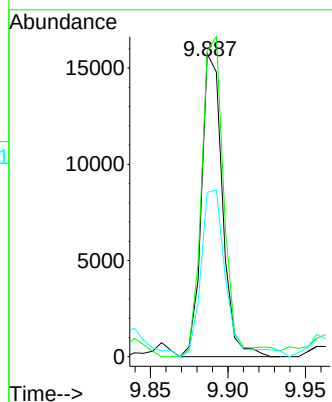
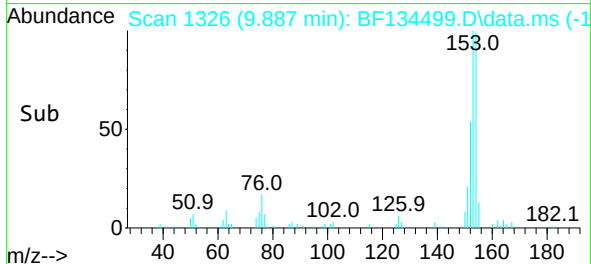


Tgt Ion:154 Resp: 14820
Ion Ratio Lower Upper
154 100
153 101.0 90.0 135.0
152 54.2 42.4 63.6

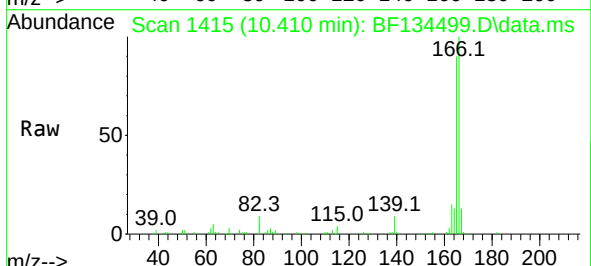
Manual Integrations

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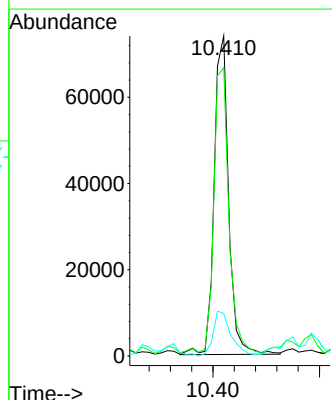
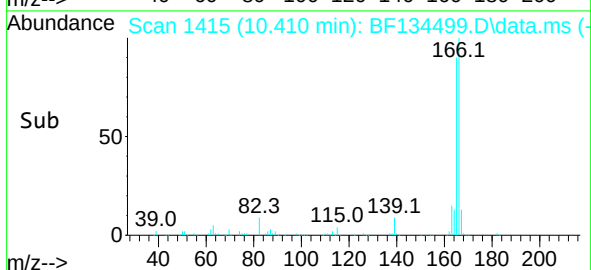
Reviewed By :Yogesh Patel 07/27/2023
Supervised By :mohammad ahmed 07/27/2023

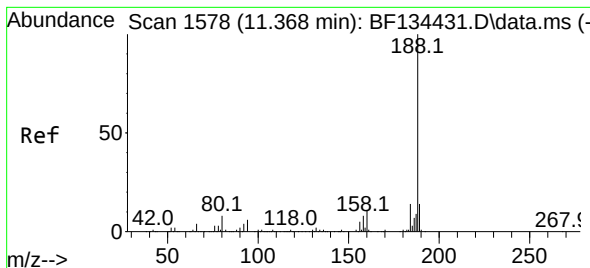


#58
Fluorene
Concen: 8.156 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32



Tgt Ion:166 Resp: 69621
Ion Ratio Lower Upper
166 100
165 90.1 74.5 111.7
167 13.3 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

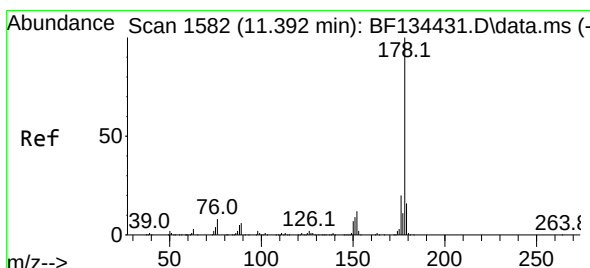
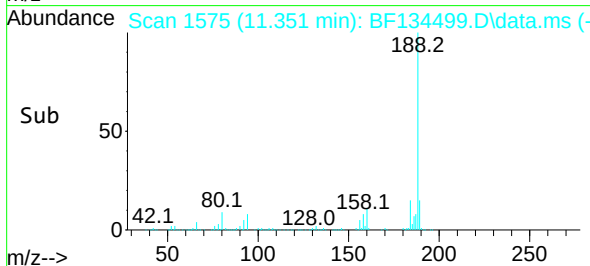
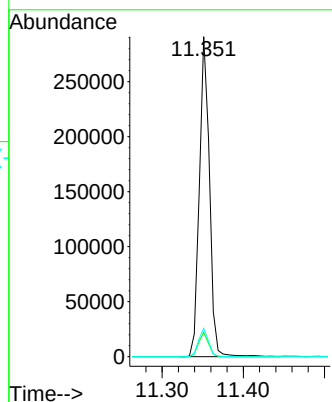
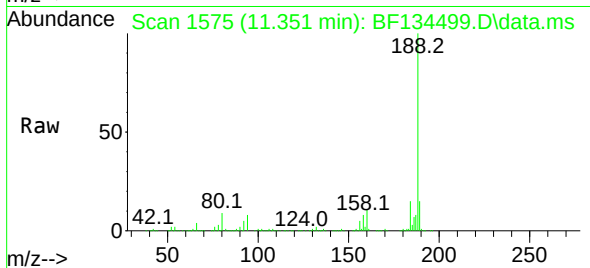
SAMPLE-1DL

Tgt Ion:188 Resp: 252504
Ion Ratio Lower Upper
188 100
94 7.7 5.1 7.7
80 8.9 6.6 9.8

Manual Integrations

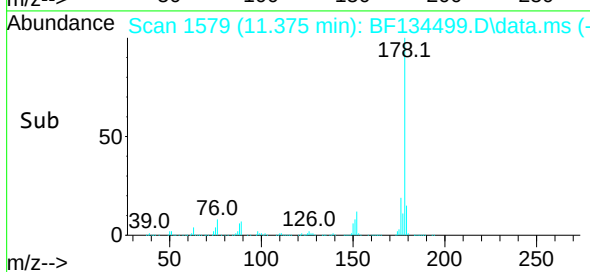
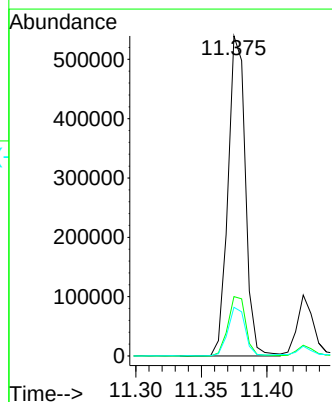
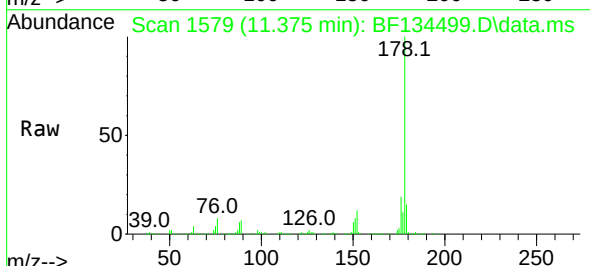
APPROVED

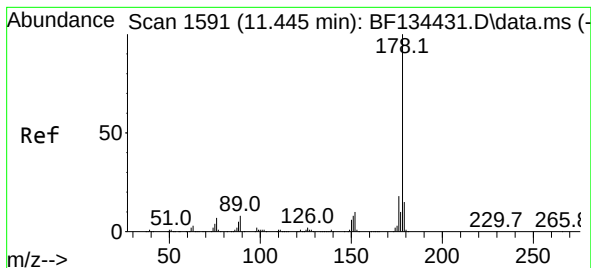
Reviewed By :Yogesh Patel 07/27/2023
Supervised By :mohammad ahmed 07/27/2023



#71
Phenanthrene
Concen: 37.636 ng
RT: 11.375 min Scan# 1579
Delta R.T. -0.017 min
Lab File: BF134499.D
Acq: 27 Jul 2023 00:32

Tgt Ion:178 Resp: 496535
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.6
179 15.2 12.7 19.1





#72

Anthracene

Concen: 6.119 ng

RT: 11.428 min Scan# 11

Delta R.T. -0.017 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

Tgt Ion:178 Resp: 83310

Ion Ratio Lower Upper

178 100

176 17.5 14.6 21.8

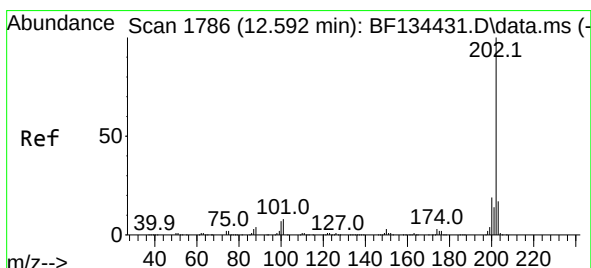
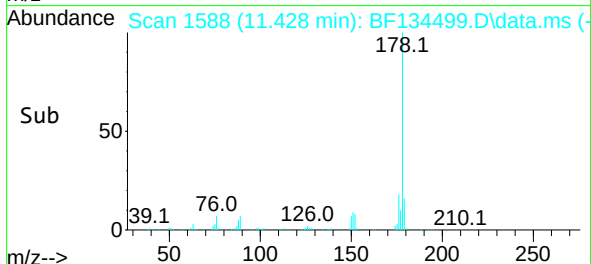
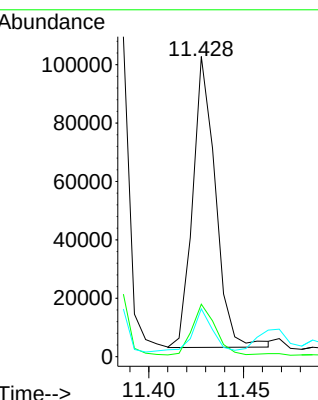
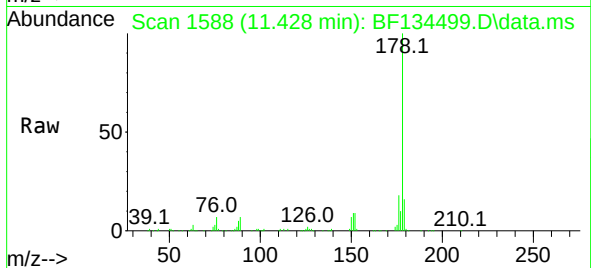
179 15.9 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#75

Fluoranthene

Concen: 27.407 ng

RT: 12.575 min Scan# 1783

Delta R.T. -0.017 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

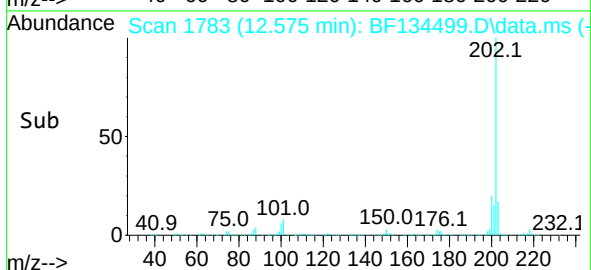
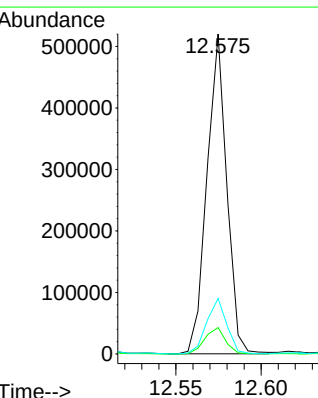
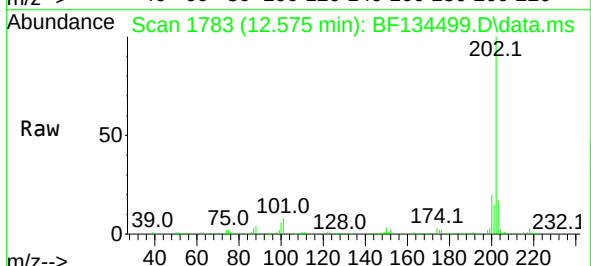
Tgt Ion:202 Resp: 421401

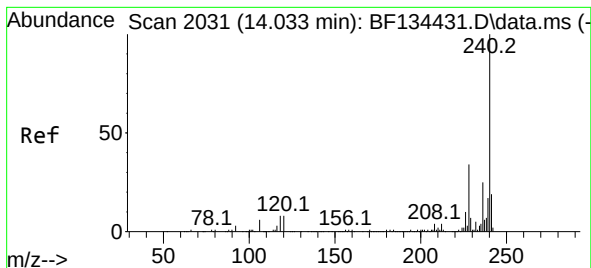
Ion Ratio Lower Upper

202 100

101 8.2 0.0 28.5

203 17.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2031

Delta R.T. -0.023 min

Lab File: BF134499.D

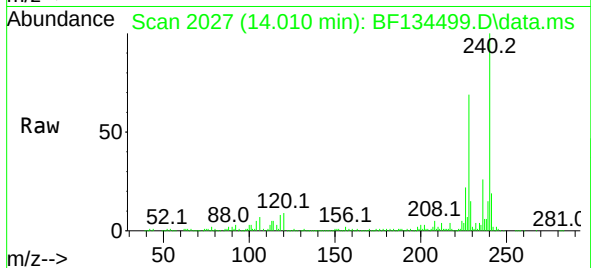
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL



Tgt Ion:240 Resp: 133480

Ion Ratio Lower Upper

240 100

120 9.1 6.6 10.0

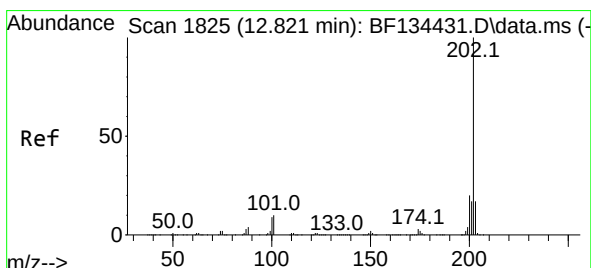
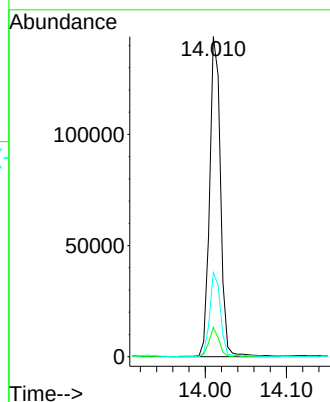
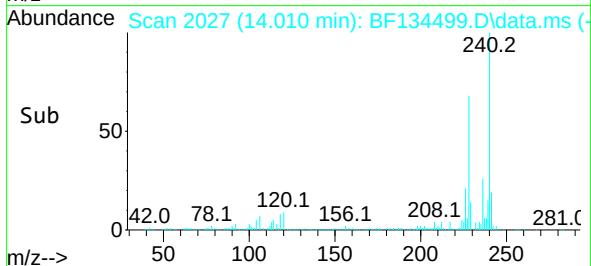
236 26.3 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#78

Pyrene

Concen: 52.466 ng

RT: 12.804 min Scan# 1822

Delta R.T. -0.017 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

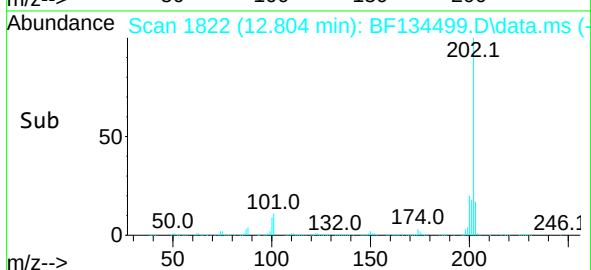
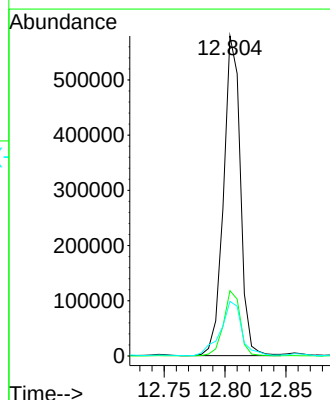
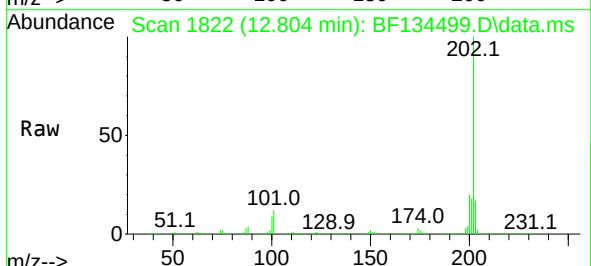
Tgt Ion:202 Resp: 556840

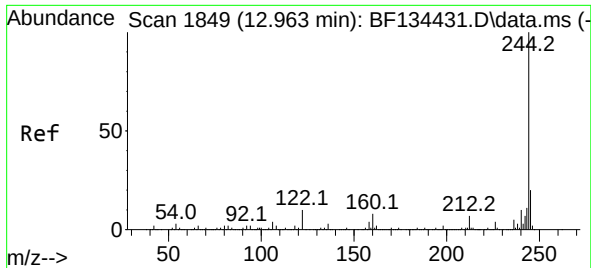
Ion Ratio Lower Upper

202 100

200 20.4 15.8 23.8

203 17.1 13.5 20.3





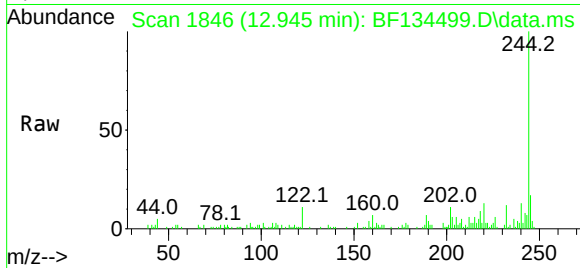
#79
 Terphenyl-d14
 Concen: 2.235 ng
 RT: 12.945 min Scan# 1846
 Delta R.T. -0.017 min
 Lab File: BF134499.D
 Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

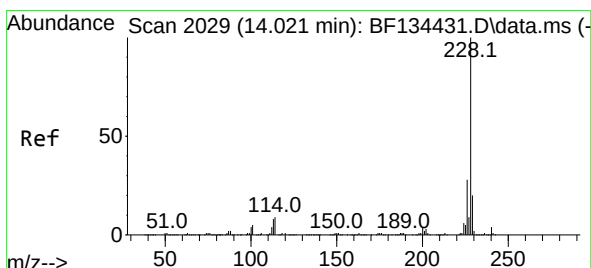
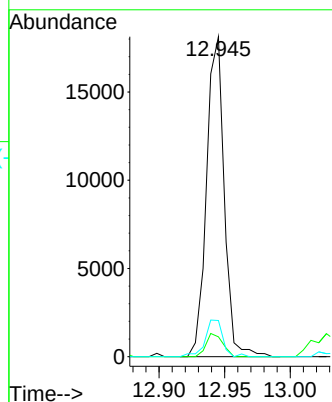
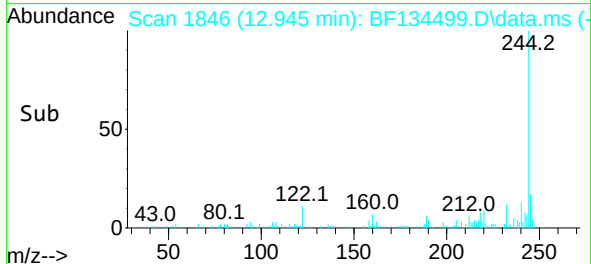


Tgt Ion:244 Resp: 17080
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.6 8.4
 122 11.3 8.0 12.0

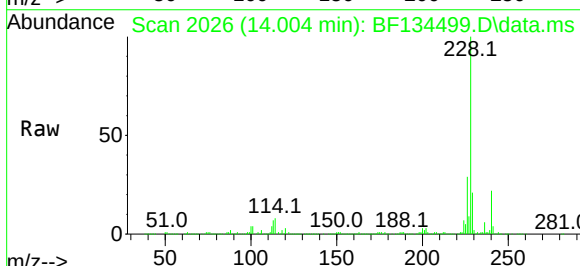
Manual Integrations

APPROVED

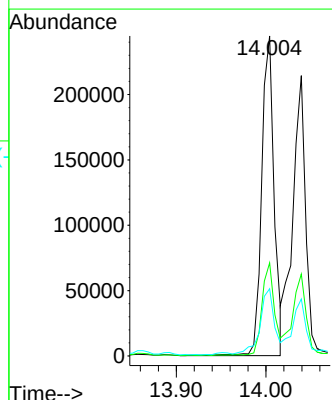
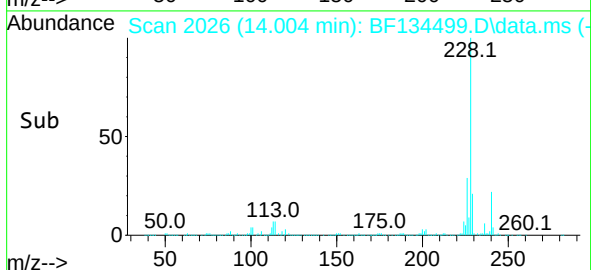
Reviewed By :Yogesh Patel 07/27/2023
 Supervised By :mohammad ahmed 07/27/2023

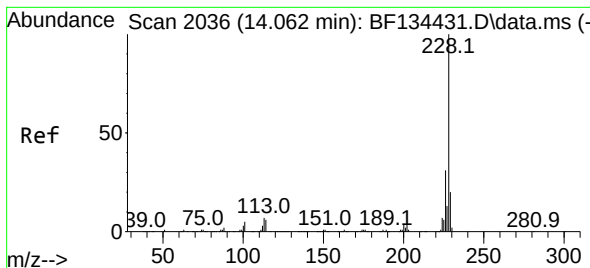


#81
 Benzo(a)anthracene
 Concen: 25.318 ng
 RT: 14.004 min Scan# 2026
 Delta R.T. -0.017 min
 Lab File: BF134499.D
 Acq: 27 Jul 2023 00:32



Tgt Ion:228 Resp: 235779
 Ion Ratio Lower Upper
 228 100
 226 29.1 22.3 33.5
 229 21.0 15.8 23.6





#83

Chrysene

Concen: 24.357 ng

RT: 14.039 min Scan# 2036

Delta R.T. -0.023 min

Lab File: BF134499.D

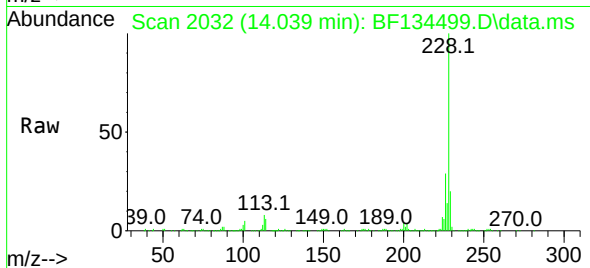
Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL



Tgt Ion:228 Resp: 21695

Ion Ratio Lower Upper

228 100

226 29.2 24.5 36.7

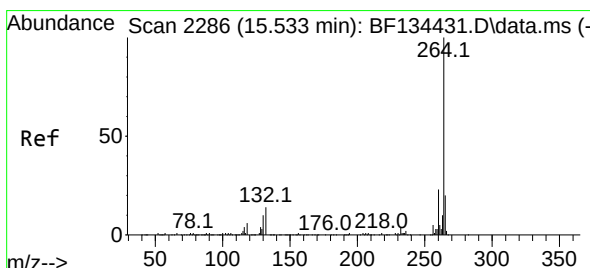
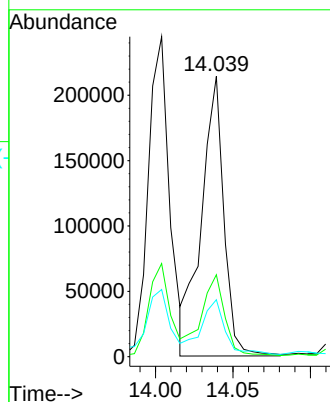
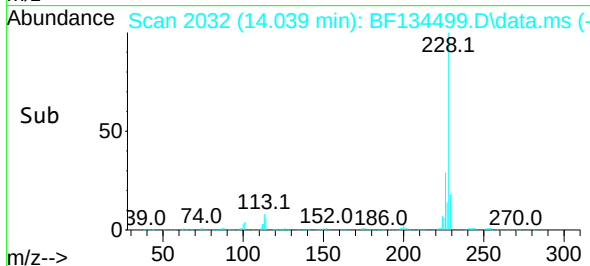
229 20.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2282

Delta R.T. -0.023 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

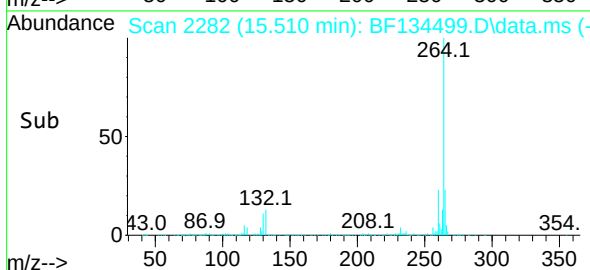
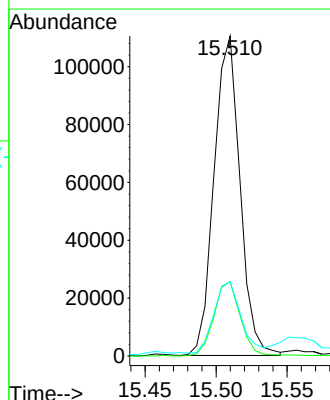
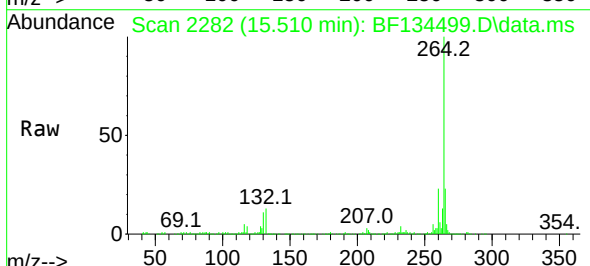
Tgt Ion:264 Resp: 140296

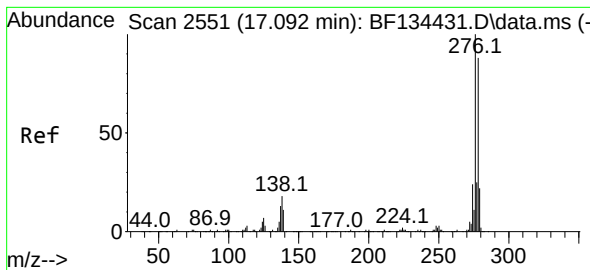
Ion Ratio Lower Upper

264 100

260 23.2 18.4 27.6

265 23.3 15.8 23.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.745 ng

RT: 17.039 min Scan# 21

Delta R.T. -0.053 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

Tgt Ion:276 Resp: 8015

Ion Ratio Lower Upper

276 100

138 16.2 14.2 21.4

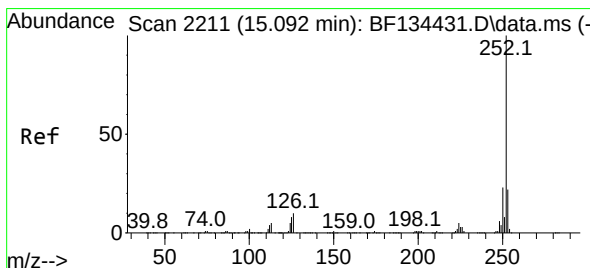
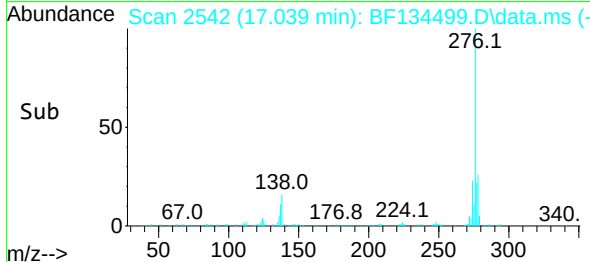
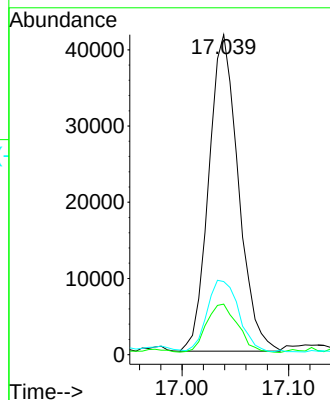
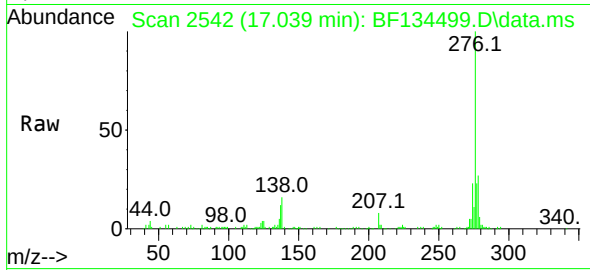
277 24.1 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#88

Benzo(b)fluoranthene

Concen: 27.001 ng m

RT: 15.069 min Scan# 2207

Delta R.T. -0.023 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

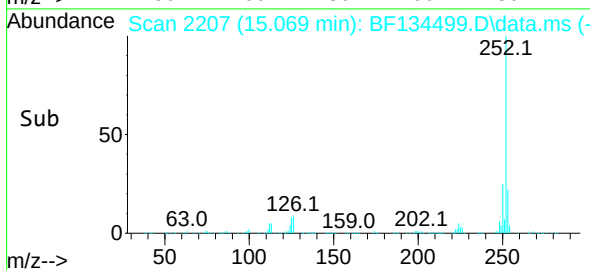
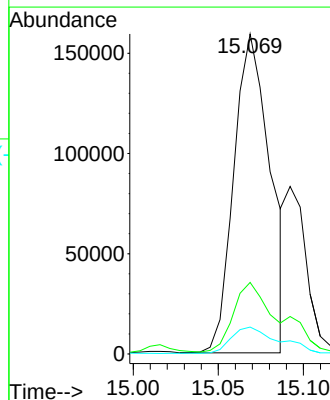
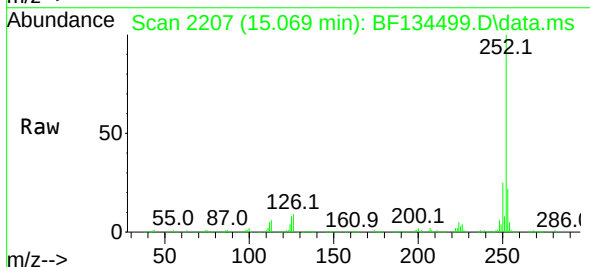
Tgt Ion:252 Resp: 236984

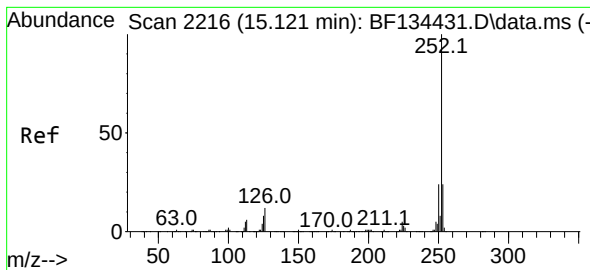
Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 8.4 6.0 9.0





#89

Benzo(k)fluoranthene

Concen: 7.986 ng m

RT: 15.092 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

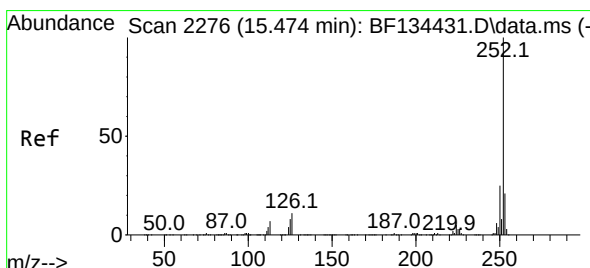
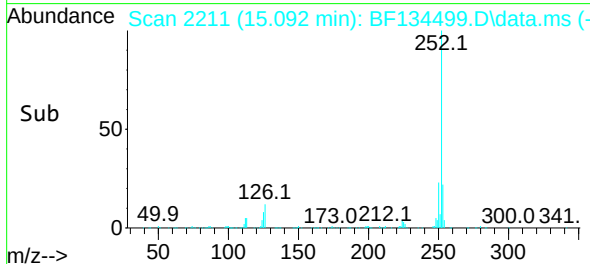
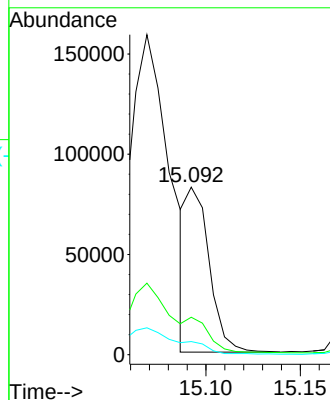
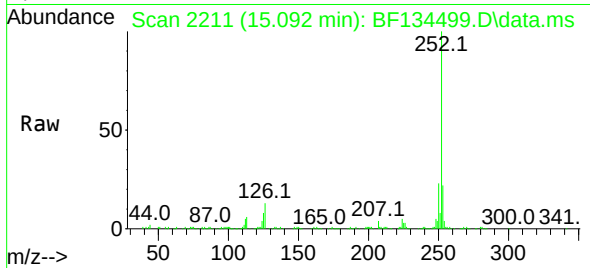
Tgt Ion:252 Resp: 68935
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.9 26.9
 125 7.8 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#90

Benzo(a)pyrene

Concen: 23.528 ng

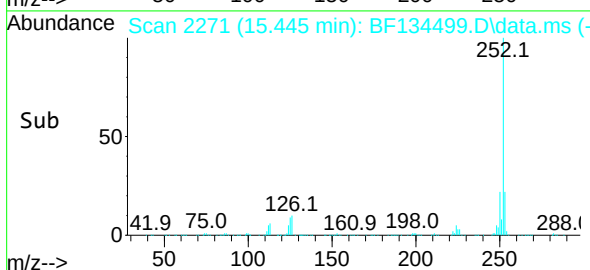
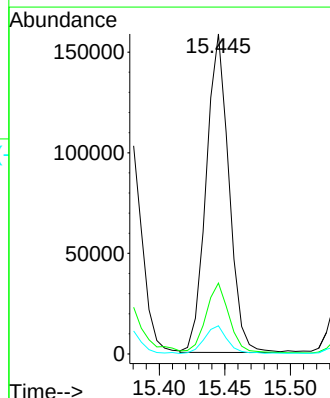
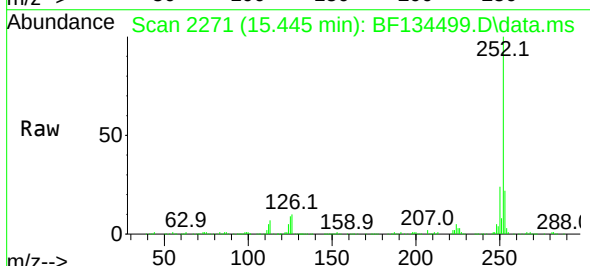
RT: 15.445 min Scan# 2271

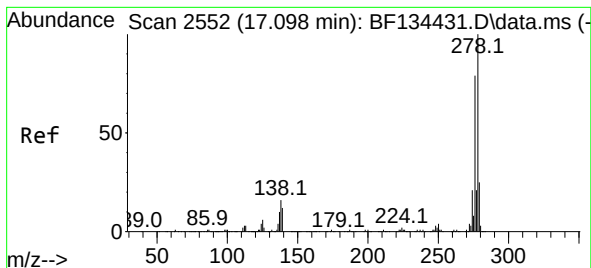
Delta R.T. -0.029 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Tgt Ion:252 Resp: 190880
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.0 25.4
 125 8.8 6.2 9.4





#91

Dibenzo(a,h)anthracene

Concen: 3.443 ng m

RT: 17.039 min Scan# 2542

Delta R.T. -0.058 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1DL

Tgt Ion:278 Resp: 2548

Ion Ratio Lower Upper

278 100

139 0.0 10.0 15.0

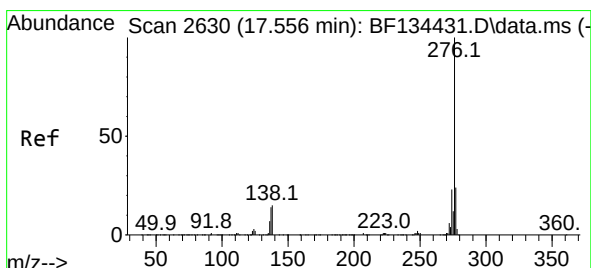
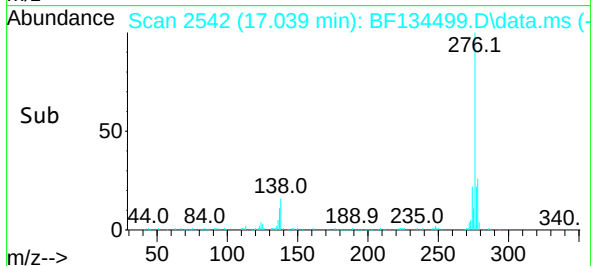
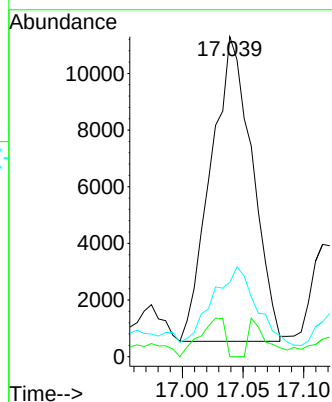
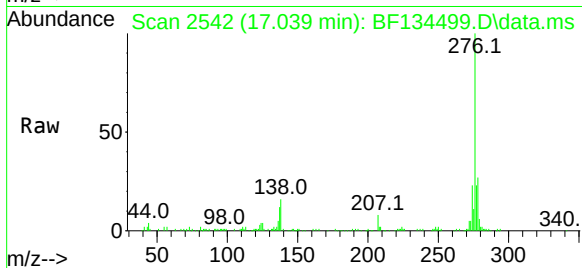
279 23.2 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/27/2023

Supervised By :mohammad ahmed 07/27/2023



#92

Benzo(g,h,i)perylene

Concen: 10.515 ng

RT: 17.504 min Scan# 2621

Delta R.T. -0.053 min

Lab File: BF134499.D

Acq: 27 Jul 2023 00:32

Tgt Ion:276 Resp: 79917

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.6

138 16.7 12.2 18.2

