

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082923\
 Data File : BF134997.D
 Acq On : 29 Aug 2023 22:25
 Operator : CG\JU
 Sample : 04110-20
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-28(1.5-2.5)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/30/2023
 Supervised By :mohammad ahmed 08/30/2023

Quant Time: Aug 29 23:27:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	123424	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	468497	20.000	ng	-0.01
39) Acenaphthene-d10	9.822	164	222127	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	320578	20.000	ng	-0.02
76) Chrysene-d12	13.980	240	196652	20.000	ng	0.00
86) Perylene-d12	15.462	264	215044	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	526934	68.080	ng	-0.01
7) Phenol-d6	6.422	99	677655	68.518	ng	-0.02
23) Nitrobenzene-d5	7.345	82	477467	56.159	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	148319	56.695	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	801472	55.778	ng	-0.02
79) Terphenyl-d14	12.910	244	543836	38.036	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.086	128	186901	7.989	ng	100
37) 2-Methylnaphthalene	8.775	142	113732	7.290	ng	100
38) 1-Methylnaphthalene	8.875	142	92390	6.333	ng	100
49) Acenaphthylene	9.680	152	480952	23.847	ng	99
55) Dibenzofuran	10.022	168	63579	3.437	ng	# 91
71) Phenanthrene	11.333	178	346570	20.631	ng	99
72) Anthracene	11.386	178	215875	12.542	ng	99
73) Carbazole	11.545	167	69622	4.909	ng	95
75) Fluoranthene	12.545	202	2514257	157.960	ng	99
78) Pyrene	12.780	202	3285229	157.563	ng	97
81) Benzo(a)anthracene	13.974	228	2146684	159.996	ng	94
83) Chrysene	14.015	228	2059507	155.573	ng	95
87) Indeno(1,2,3-cd)pyrene	16.962	276	1065836	69.340	ng	95
88) Benzo(b)fluoranthene	15.045	252	3689698m	304.113	ng	
89) Benzo(k)fluoranthene	15.068	252	870592m	73.073	ng	
90) Benzo(a)pyrene	15.415	252	2109714	174.186	ng	97
91) Dibenzo(a,h)anthracene	16.968	278	325642	26.183	ng	94
92) Benzo(g,h,i)perylene	17.415	276	855893	67.226	ng	99

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

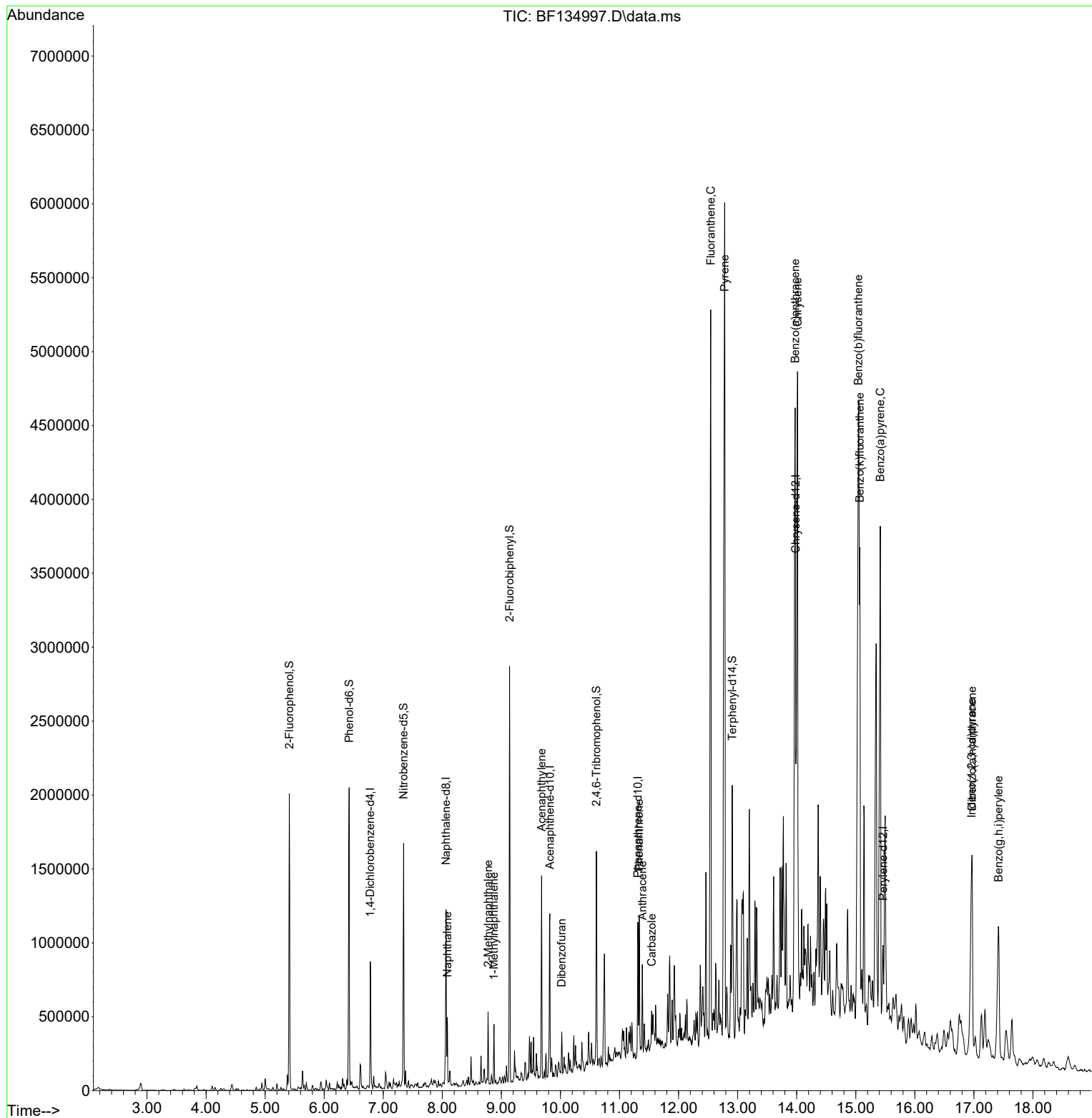
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082923\
Data File : BF134997.D
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Misc :
ALS Vial : 20 Sample Multiplier: 1

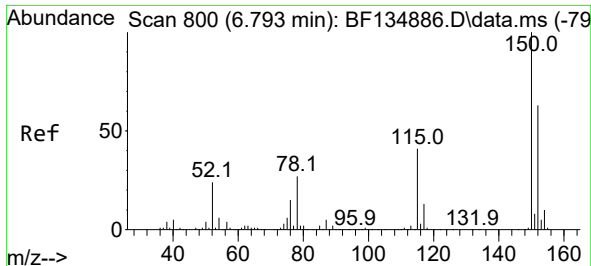
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

Quant Time: Aug 29 23:27:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
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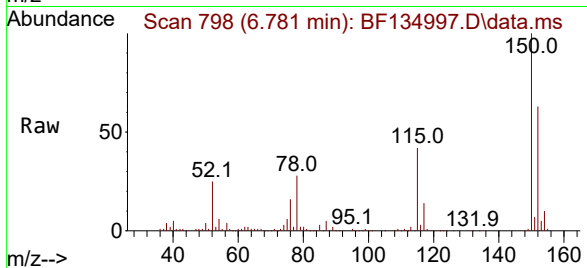
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

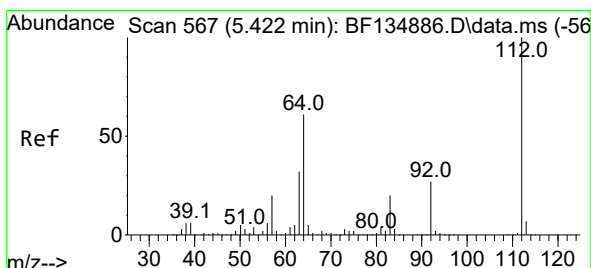
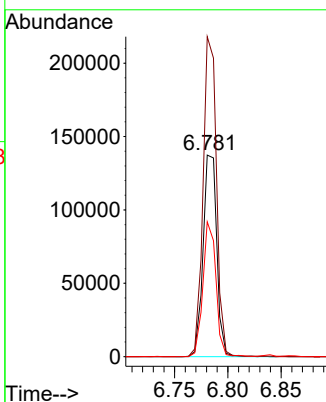
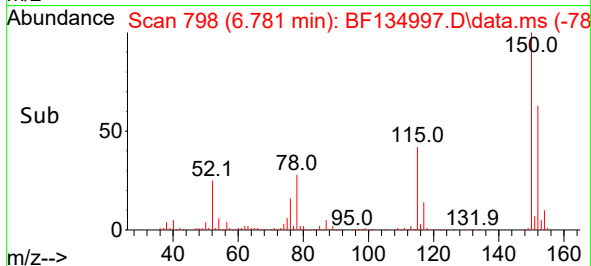


Tgt Ion:152 Resp: 123424
Ion Ratio Lower Upper
152 100
150 158.8 126.1 189.1
115 66.9 51.1 76.7

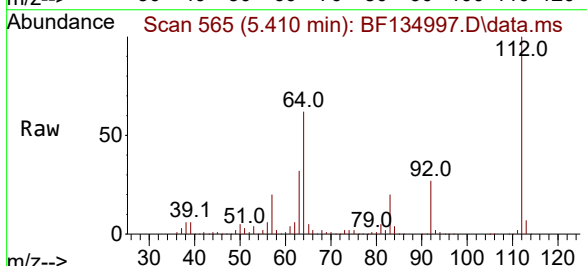
Manual Integrations

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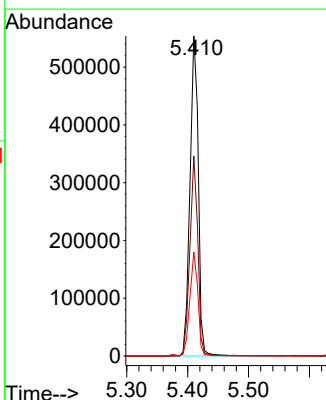
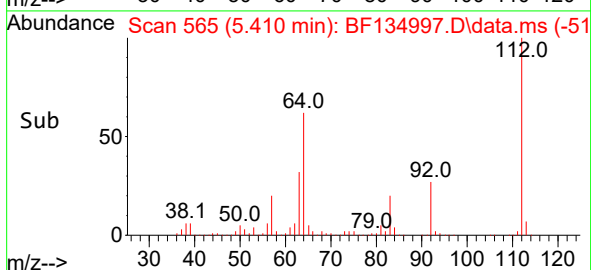
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023

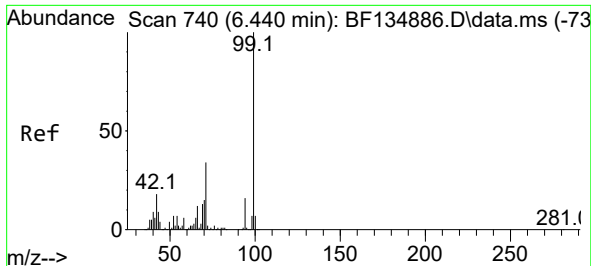


#5
2-Fluorophenol
Concen: 68.080 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25



Tgt Ion:112 Resp: 526934
Ion Ratio Lower Upper
112 100
64 62.4 48.6 73.0
63 32.4 25.7 38.5





#7

Phenol-d6

Concen: 68.518 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.018 min

Lab File: BF134997.D

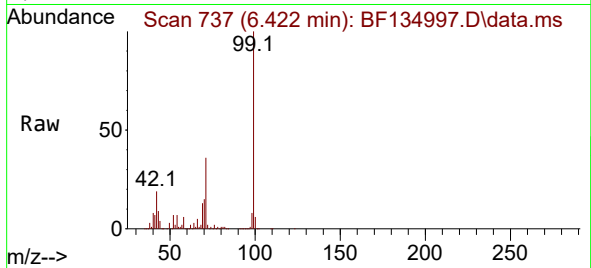
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)



Tgt Ion: 99 Resp: 67765

Ion Ratio Lower Upper

99 100

42 18.5 14.6 22.0

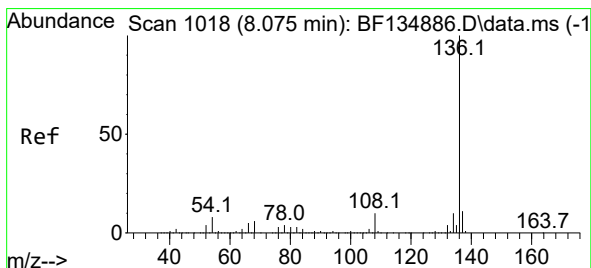
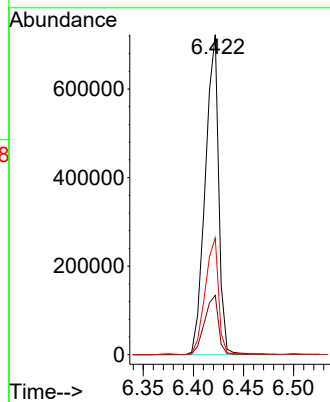
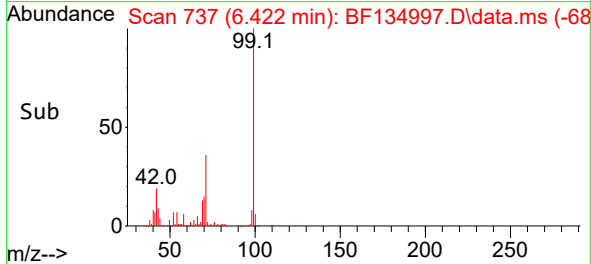
71 36.4 27.6 41.4

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1016

Delta R.T. -0.012 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Tgt Ion:136 Resp: 468497

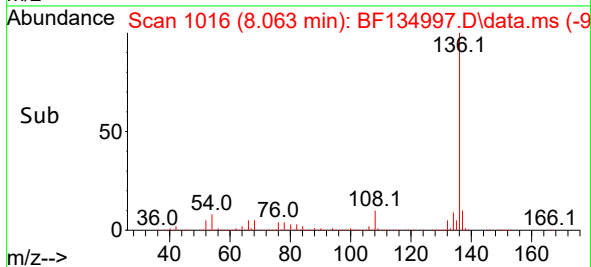
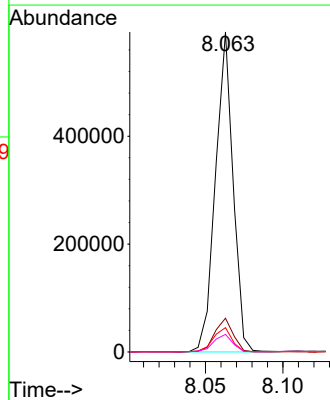
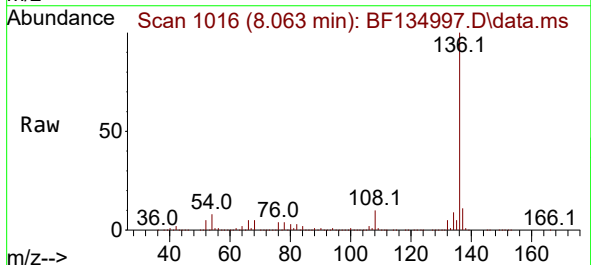
Ion Ratio Lower Upper

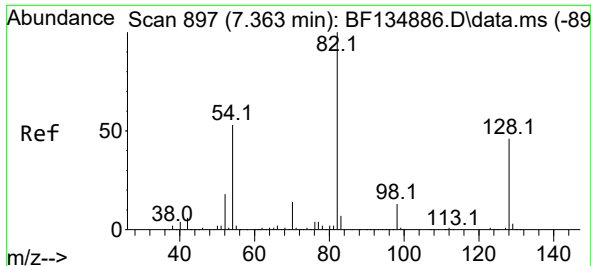
136 100

137 10.5 8.9 13.3

54 7.6 6.6 9.8

68 5.5 5.0 7.4





#23

Nitrobenzene-d5

Concen: 56.159 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

Tgt Ion: 82 Resp: 47746

Ion Ratio Lower Upper

82 100

128 43.9 36.6 54.8

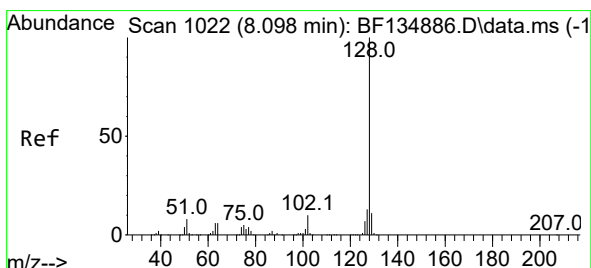
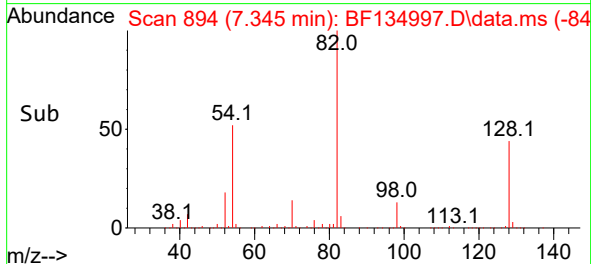
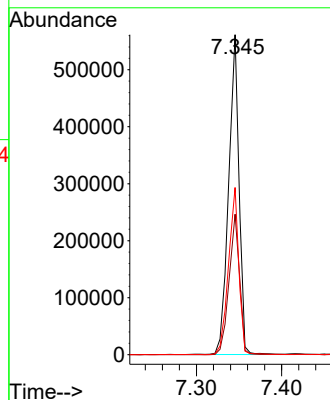
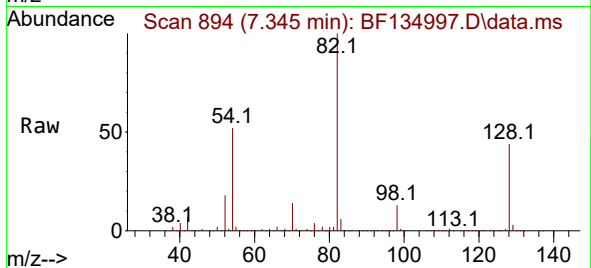
54 52.3 42.6 63.8

Manual Integrations

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Supervised By :mohammad ahmed 08/30/2023



#31

Naphthalene

Concen: 7.989 ng

RT: 8.086 min Scan# 1020

Delta R.T. -0.012 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

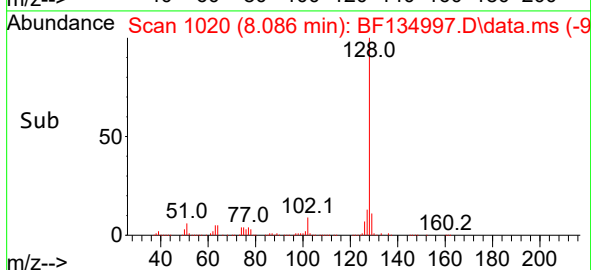
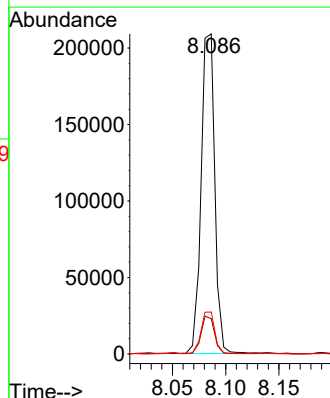
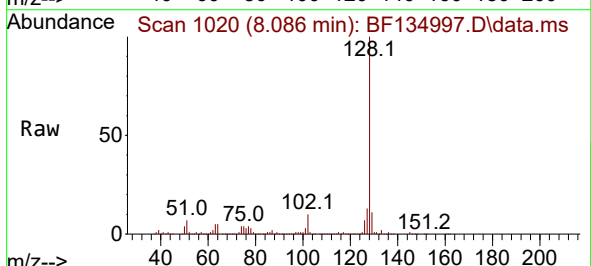
Tgt Ion:128 Resp: 186901

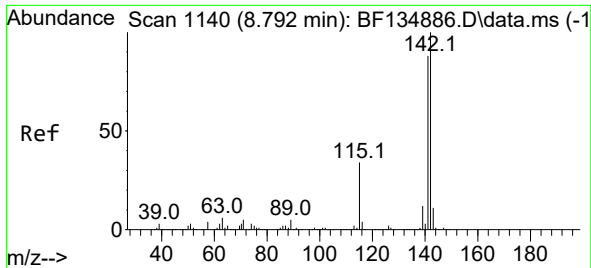
Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

127 13.1 10.6 16.0





#37
2-Methylnaphthalene
Concen: 7.290 ng
RT: 8.775 min Scan# 1137
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

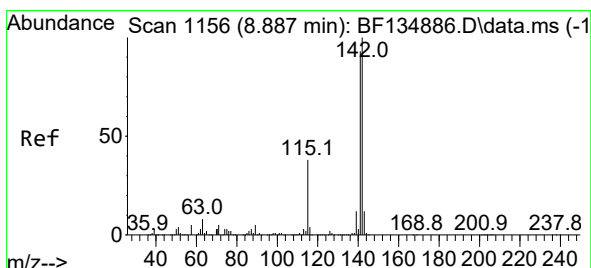
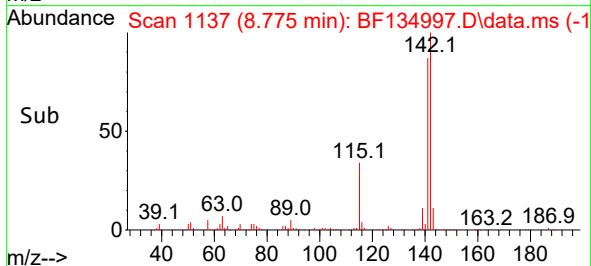
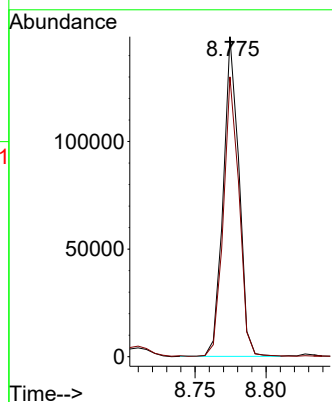
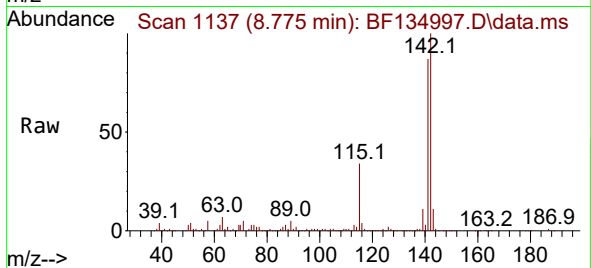
TP-28(1.5-2.5)

Tgt Ion:142 Resp: 11373
Ion Ratio Lower Upper
142 100
141 87.5 70.2 105.2

Manual Integrations

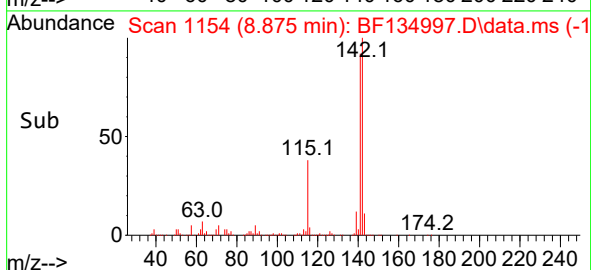
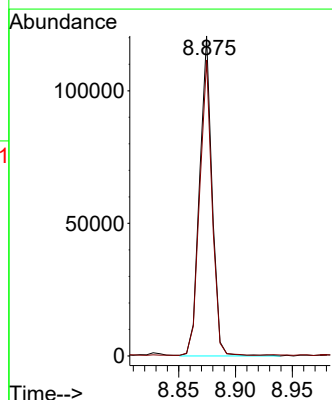
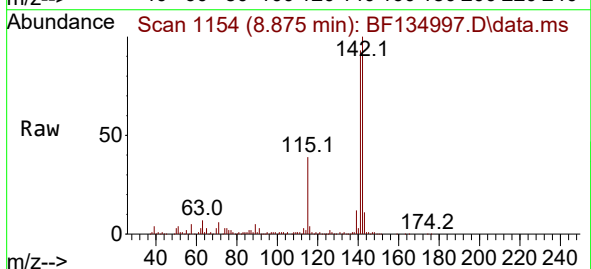
APPROVED

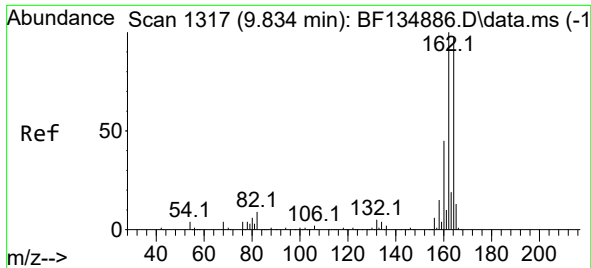
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#38
1-Methylnaphthalene
Concen: 6.333 ng
RT: 8.875 min Scan# 1154
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:142 Resp: 92390
Ion Ratio Lower Upper
142 100
141 92.5 74.1 111.1





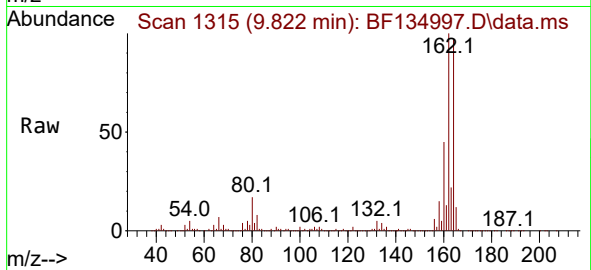
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

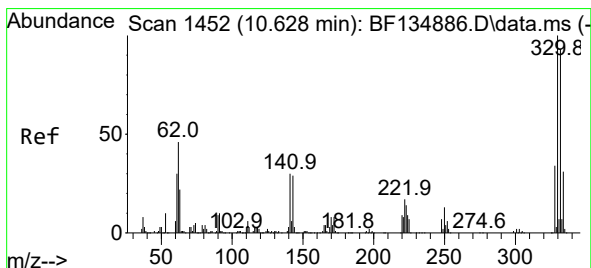
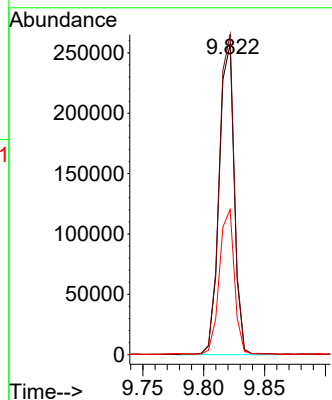
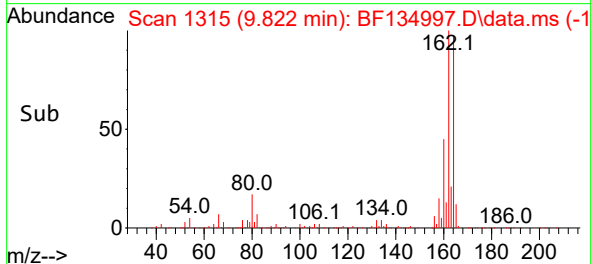


Tgt Ion:164 Resp: 22212
Ion Ratio Lower Upper
164 100
162 103.0 82.6 123.8
160 46.7 37.0 55.4

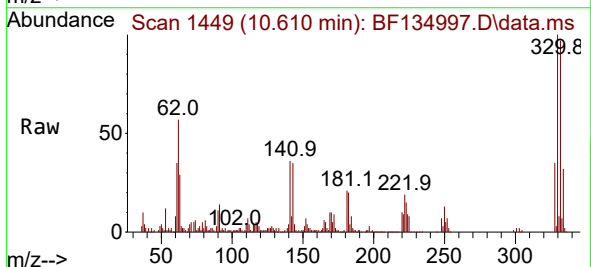
Manual Integrations

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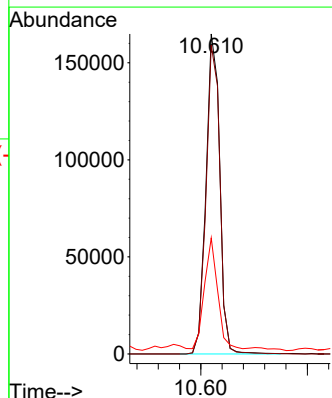
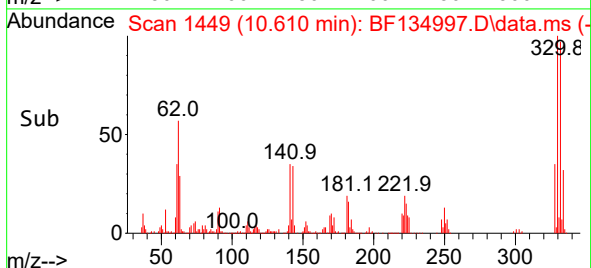
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023

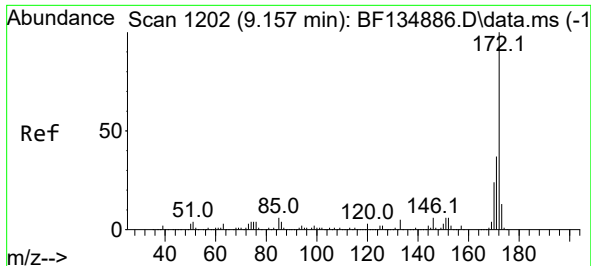


#42
2,4,6-Tribromophenol
Concen: 56.695 ng
RT: 10.610 min Scan# 1449
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25



Tgt Ion:330 Resp: 148319
Ion Ratio Lower Upper
330 100
332 97.3 76.3 114.5
141 33.0 23.4 35.2





#45
2-Fluorobiphenyl
Concen: 55.778 ng
RT: 9.139 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

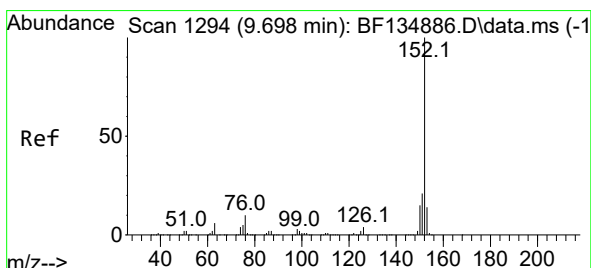
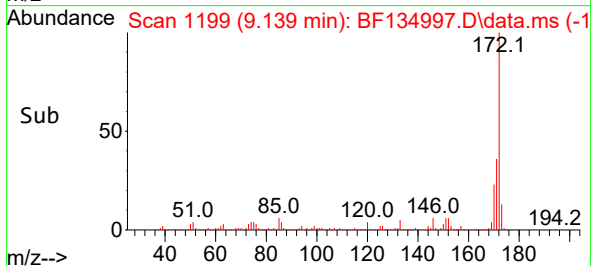
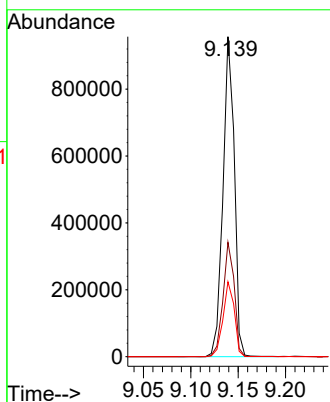
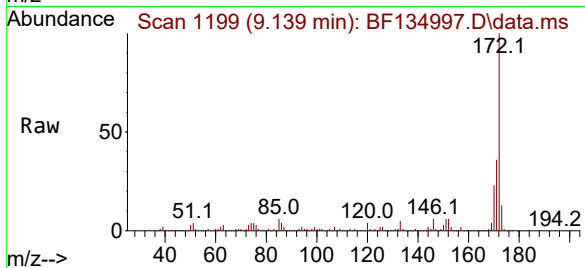
TP-28(1.5-2.5)

Tgt Ion:172 Resp: 801472
Ion Ratio Lower Upper
172 100
171 35.8 29.4 44.0
170 23.4 19.6 29.4

Manual Integrations

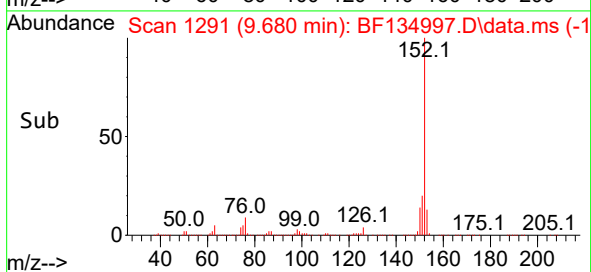
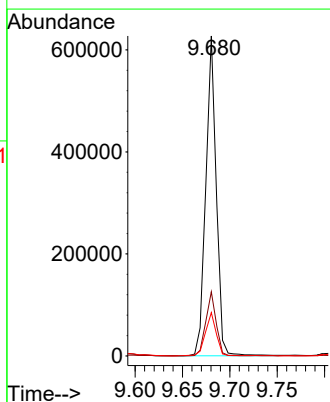
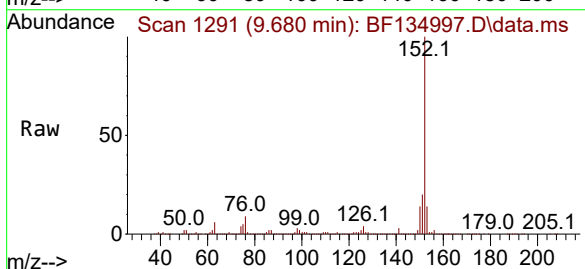
APPROVED

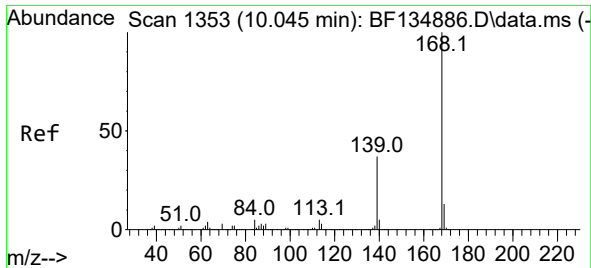
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#49
Acenaphthylene
Concen: 23.847 ng
RT: 9.680 min Scan# 1291
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

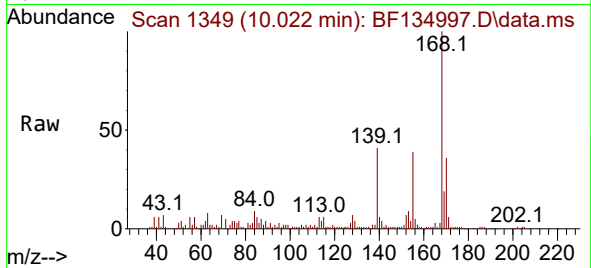
Tgt Ion:152 Resp: 480952
Ion Ratio Lower Upper
152 100
151 20.1 16.5 24.7
153 13.6 11.3 16.9





#55
Dibenzenofuran
Concen: 3.437 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

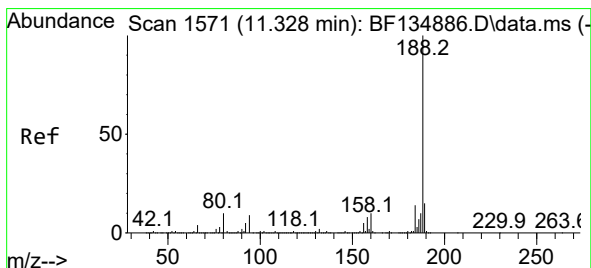
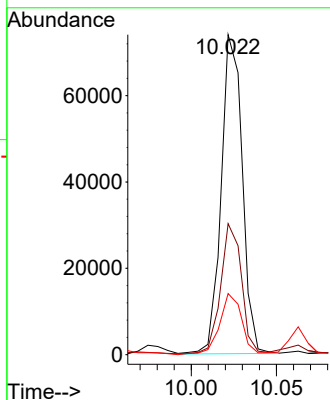
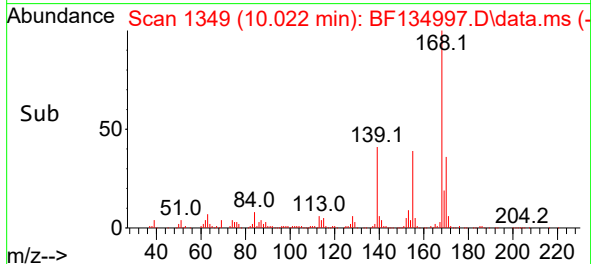
Instrument :
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ClientSampleId :
TP-28(1.5-2.5)



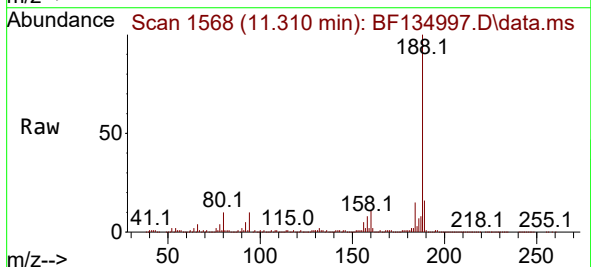
Tgt Ion:168 Resp: 63579
Ion Ratio Lower Upper
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139 41.0 29.5 44.3
169 19.1 10.7 16.1

Manual Integrations
APPROVED

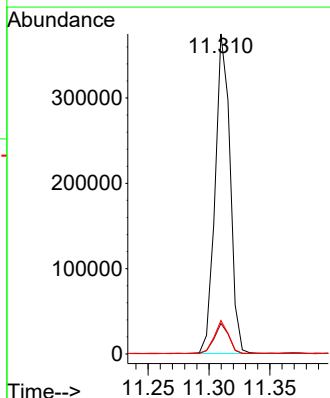
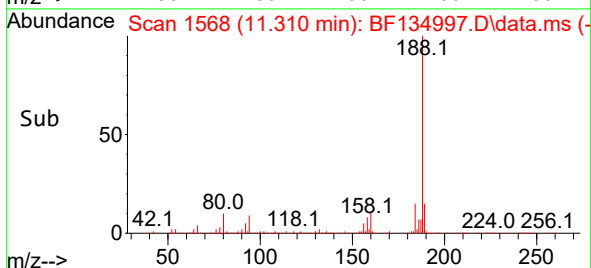
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023

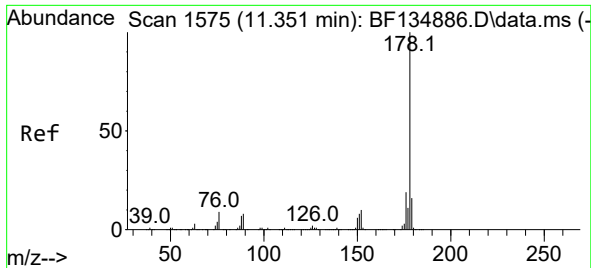


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25



Tgt Ion:188 Resp: 320578
Ion Ratio Lower Upper
188 100
94 9.5 7.5 11.3
80 10.5 7.8 11.6





#71
Phenanthrene
Concen: 20.631 ng
RT: 11.333 min Scan# 1572
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

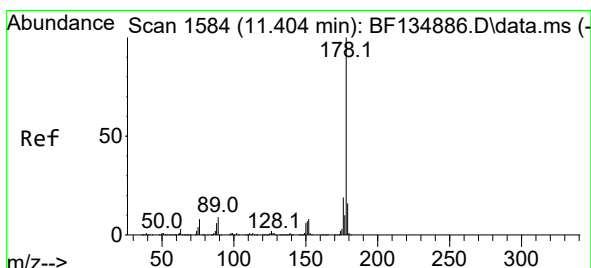
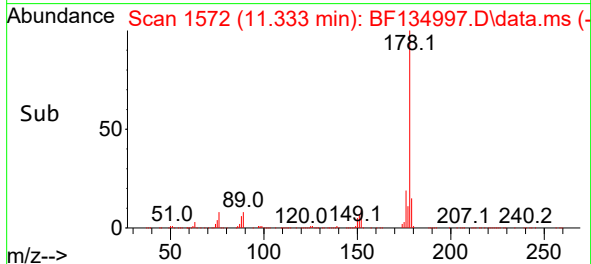
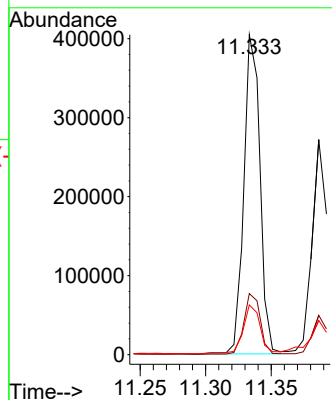
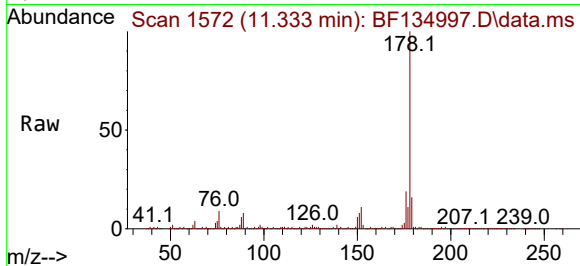
TP-28(1.5-2.5)

Tgt Ion:178 Resp: 346570
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.6 12.6 19.0

Manual Integrations

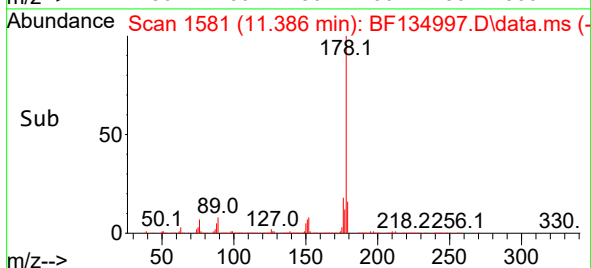
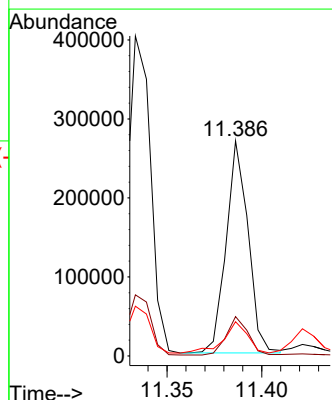
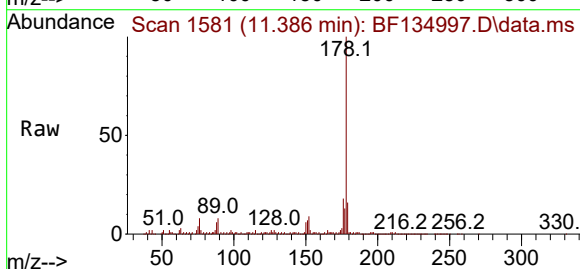
APPROVED

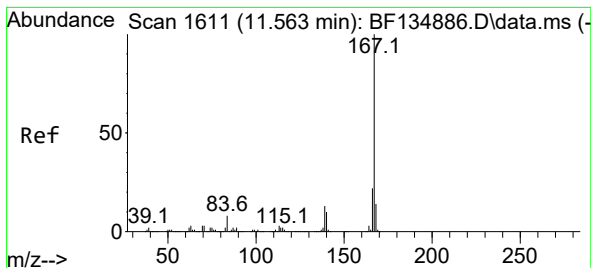
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#72
Anthracene
Concen: 12.542 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:178 Resp: 215875
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.9 12.5 18.7





#73

Carbazole

Concen: 4.909 ng

RT: 11.545 min Scan# 1608

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

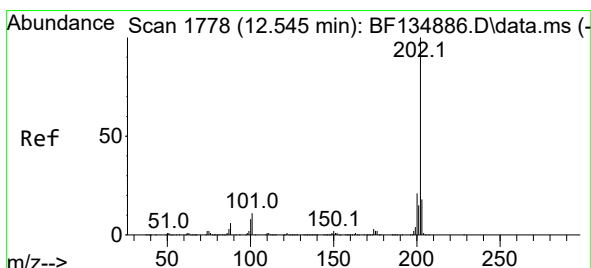
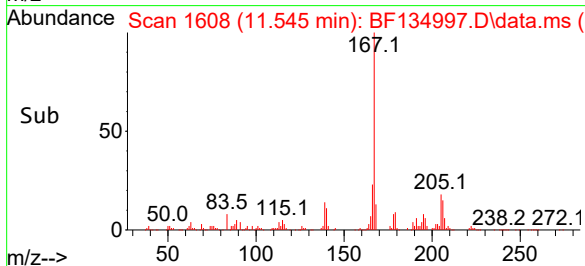
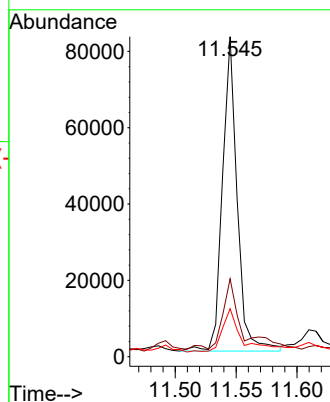
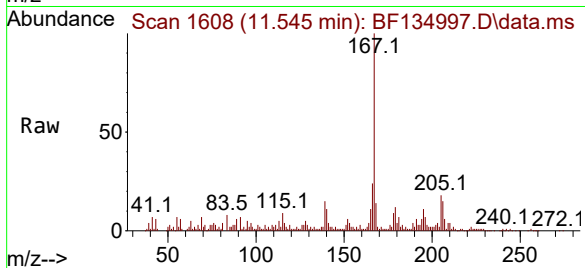
Tgt Ion:167	Resp: 6962
Ion Ratio	Lower Upper
167 100	
166 24.3	17.4 26.2
139 15.0	10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/30/2023

Supervised By :mohammad ahmed 08/30/2023



#75

Fluoranthene

Concen: 157.960 ng

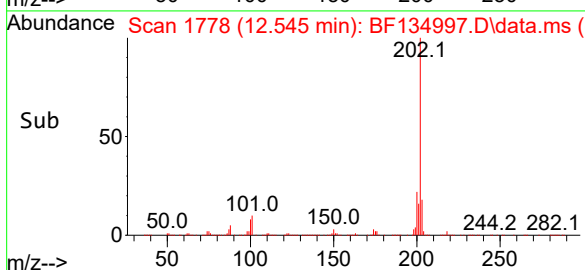
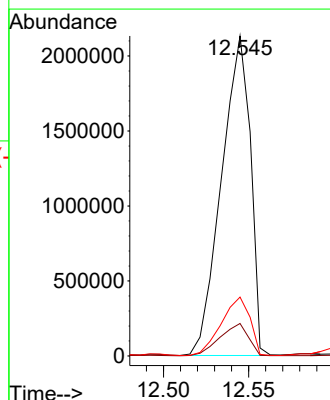
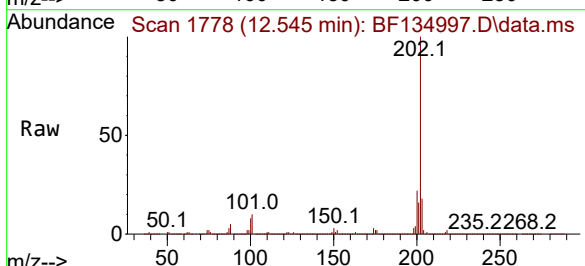
RT: 12.545 min Scan# 1778

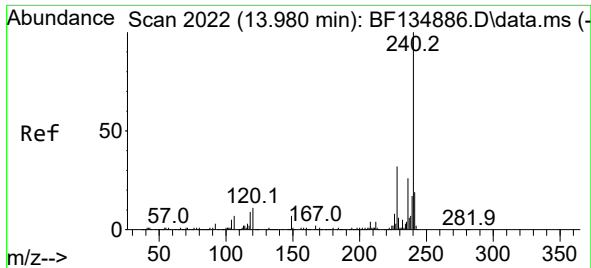
Delta R.T. -0.000 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Tgt Ion:202	Resp: 2514257
Ion Ratio	Lower Upper
202 100	
101 10.1	0.0 30.5
203 18.4	0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

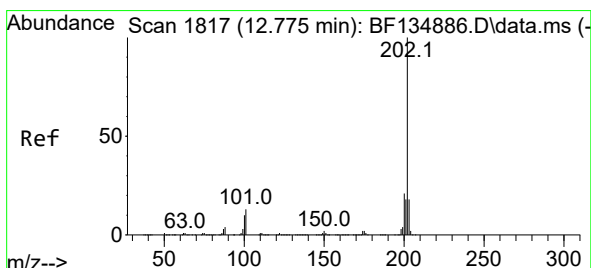
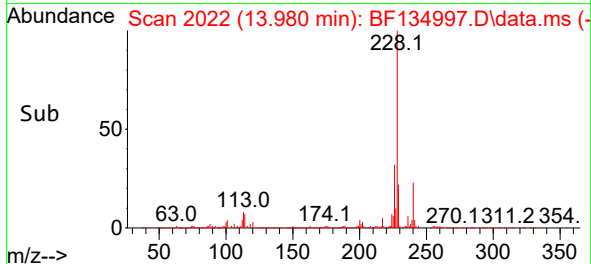
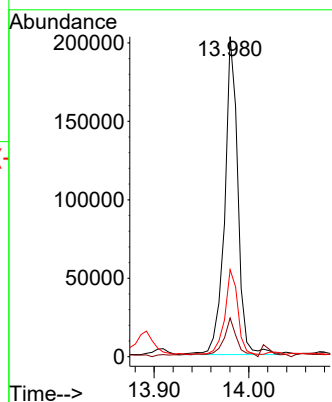
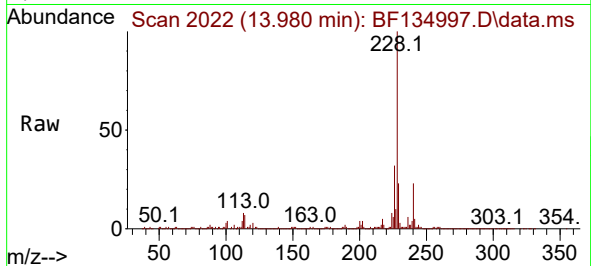
TP-28(1.5-2.5)

Tgt Ion:240 Resp: 196652
Ion Ratio Lower Upper
240 100
120 12.1 8.6 12.8
236 27.2 20.6 31.0

Manual Integrations

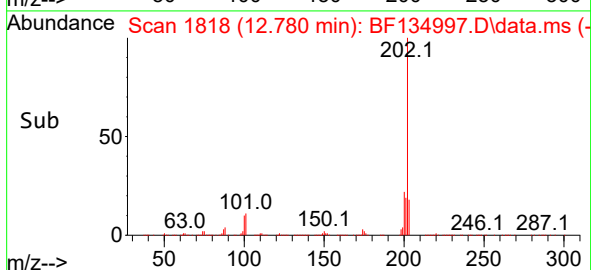
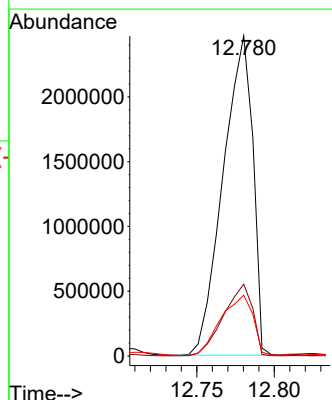
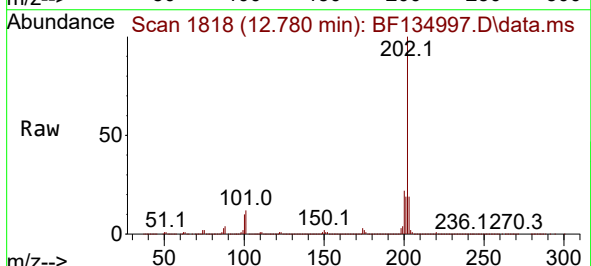
APPROVED

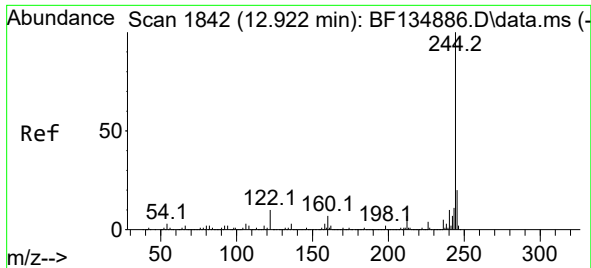
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#78
Pyrene
Concen: 157.563 ng
RT: 12.780 min Scan# 1818
Delta R.T. 0.006 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:202 Resp: 3285229
Ion Ratio Lower Upper
202 100
200 22.5 17.1 25.7
203 19.0 14.2 21.2





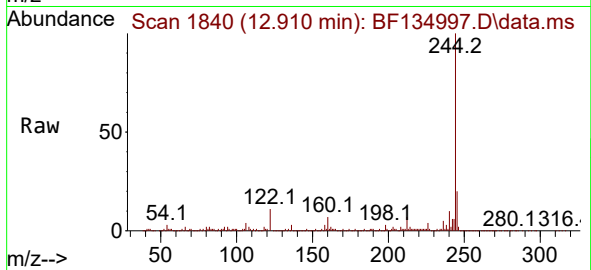
#79
 Terphenyl-d14
 Concen: 38.036 ng
 RT: 12.910 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

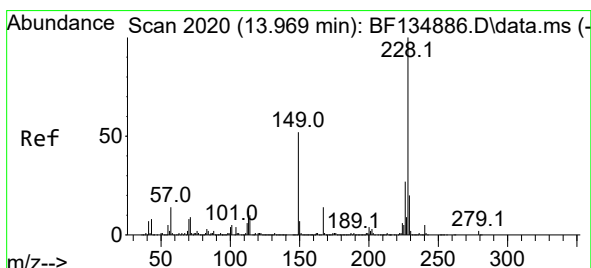
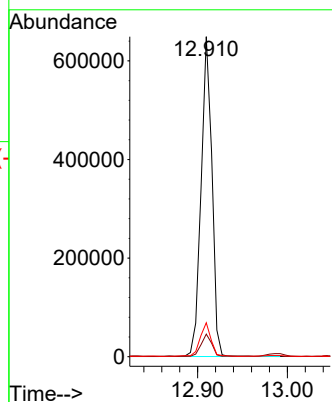
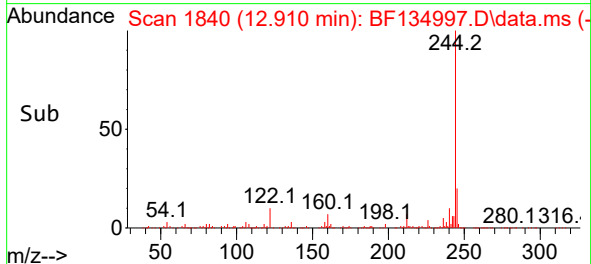


Tgt Ion:244 Resp: 543830
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.0
 122 10.6 8.2 12.4

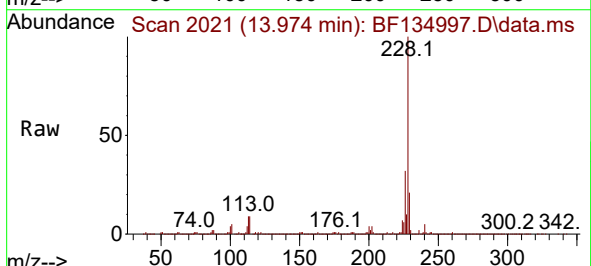
Manual Integrations

APPROVED

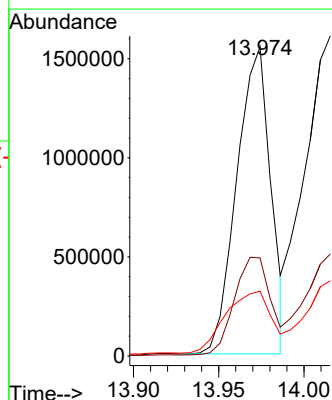
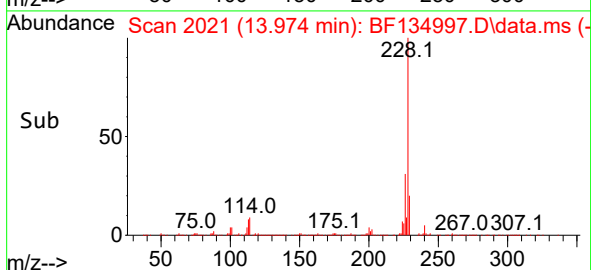
Reviewed By :Yogesh Patel 08/30/2023
 Supervised By :mohammad ahmed 08/30/2023

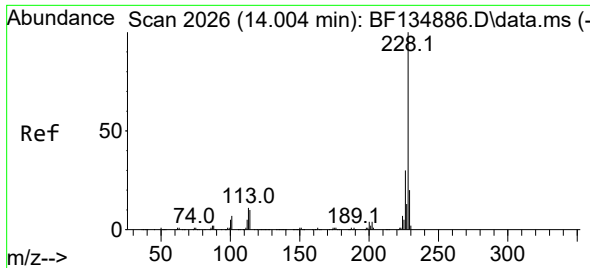


#81
 Benzo(a)anthracene
 Concen: 159.996 ng
 RT: 13.974 min Scan# 2021
 Delta R.T. 0.006 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25



Tgt Ion:228 Resp: 2146684
 Ion Ratio Lower Upper
 228 100
 226 31.7 21.8 32.6
 229 20.9 15.6 23.4





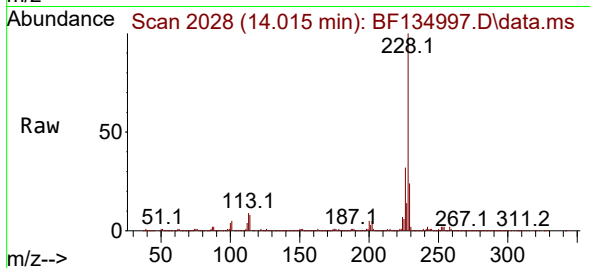
#83
Chrysene
Concen: 155.573 ng
RT: 14.015 min Scan# 2026
Delta R.T. 0.011 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)



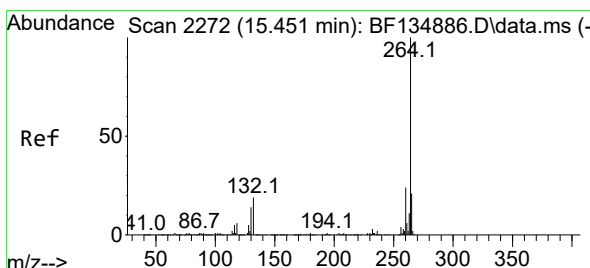
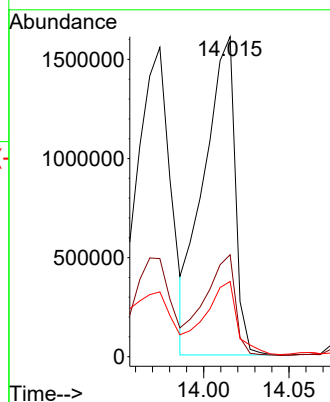
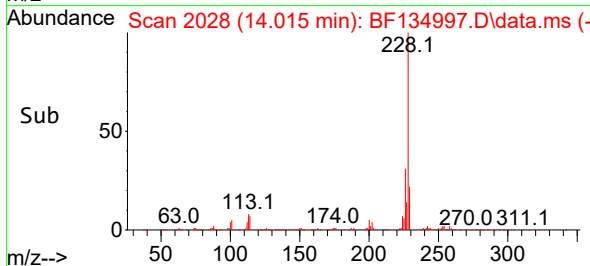
Tgt Ion:228 Resp: 205950
Ion Ratio Lower Upper
228 100
226 31.8 24.2 36.2
229 23.5 16.0 24.0

Manual Integrations

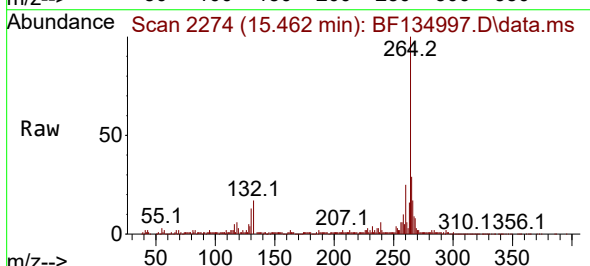
APPROVED

Reviewed By :Yogesh Patel 08/30/2023

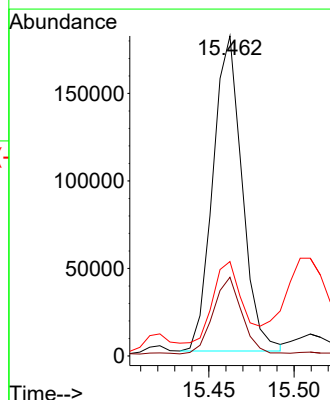
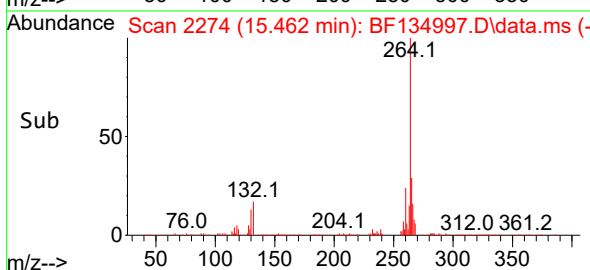
Supervised By :mohammad ahmed 08/30/2023

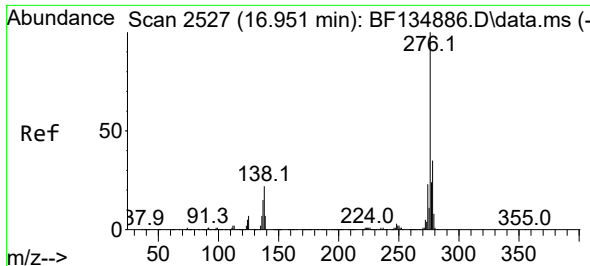


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2274
Delta R.T. 0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25



Tgt Ion:264 Resp: 215044
Ion Ratio Lower Upper
264 100
260 24.6 19.0 28.6
265 29.5 17.1 25.7





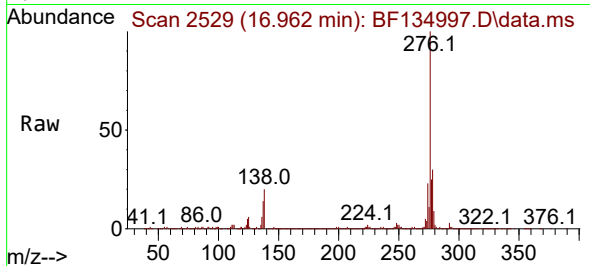
#87
Indeno(1,2,3-cd)pyrene
Concen: 69.340 ng
RT: 16.962 min Scan# 2103
Delta R.T. 0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

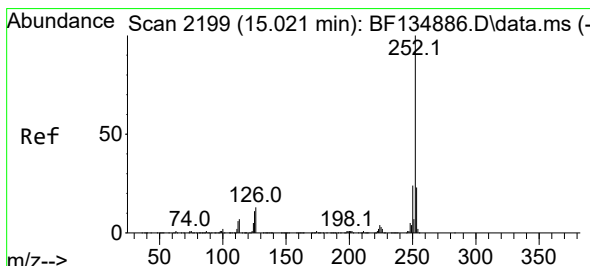
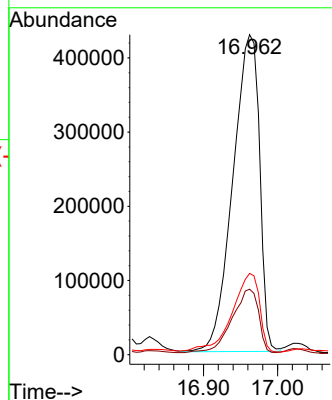
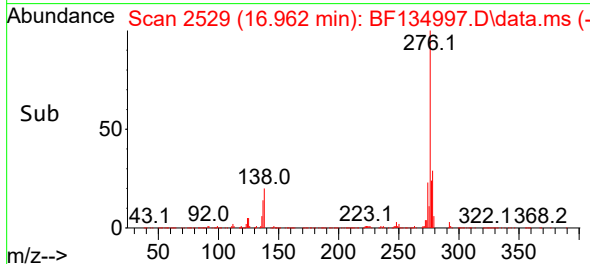


Tgt Ion:276 Resp: 1065830
Ion Ratio Lower Upper
276 100
138 20.1 19.7 29.5
277 25.6 20.1 30.1

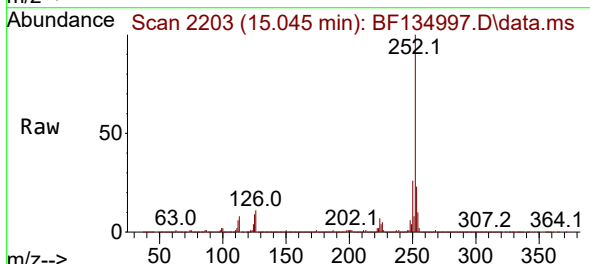
Manual Integrations

APPROVED

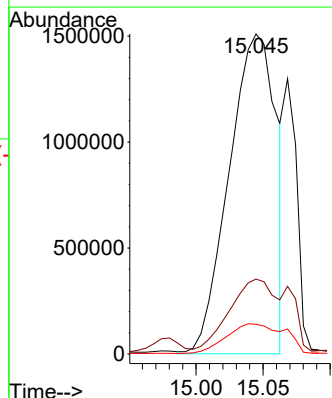
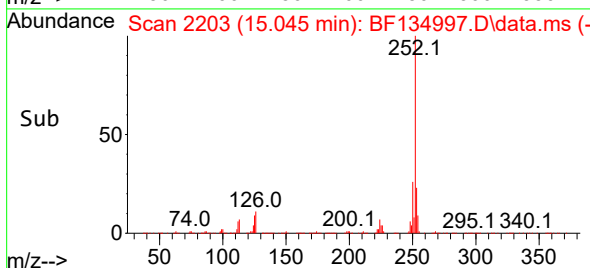
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023

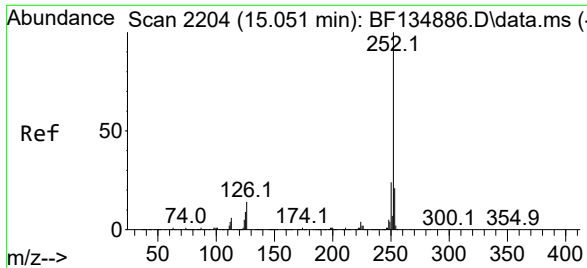


#88
Benzo(b)fluoranthene
Concen: 304.113 ng m
RT: 15.045 min Scan# 2203
Delta R.T. 0.023 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25



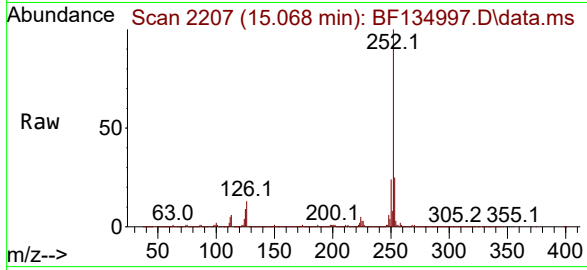
Tgt Ion:252 Resp: 3689698
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 9.3 8.4 12.6





#89
Benzo(k)fluoranthene
Concen: 73.073 ng m
RT: 15.068 min Scan# 21
Delta R.T. 0.017 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

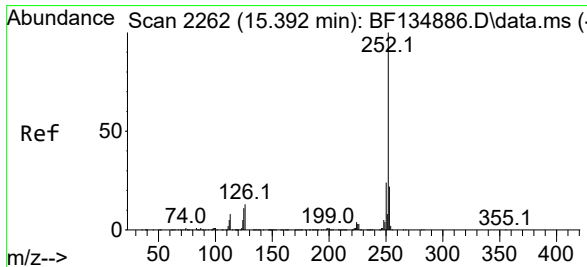
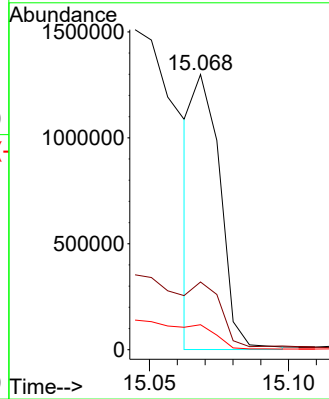
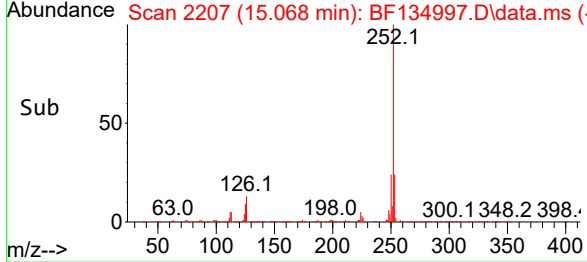
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)



Tgt Ion:252 Resp: 870592
Ion Ratio Lower Upper
252 100
253 24.6 17.1 25.7
125 9.1 8.0 12.0

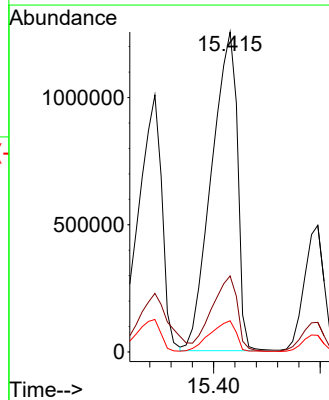
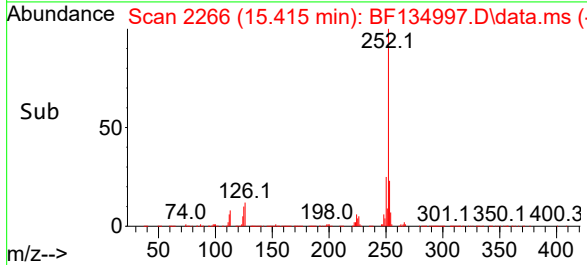
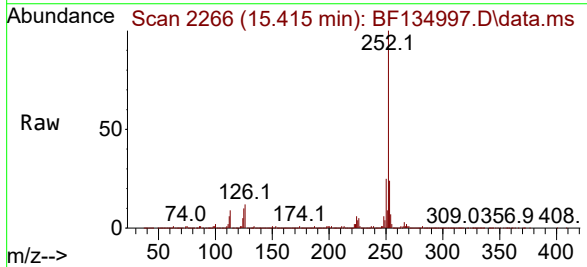
Manual Integrations
APPROVED

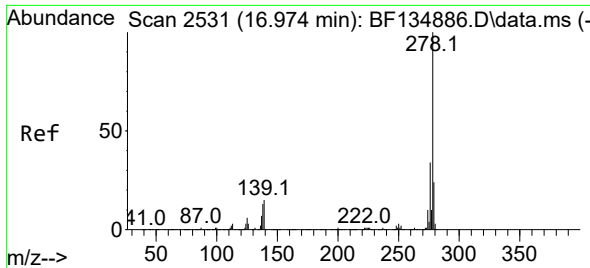
Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#90
Benzo(a)pyrene
Concen: 174.186 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.023 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:252 Resp: 2109714
Ion Ratio Lower Upper
252 100
253 23.7 17.6 26.4
125 9.7 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 26.183 ng
RT: 16.968 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

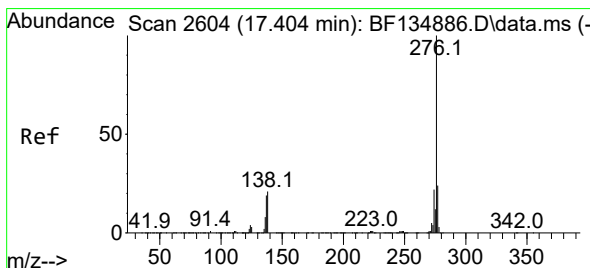
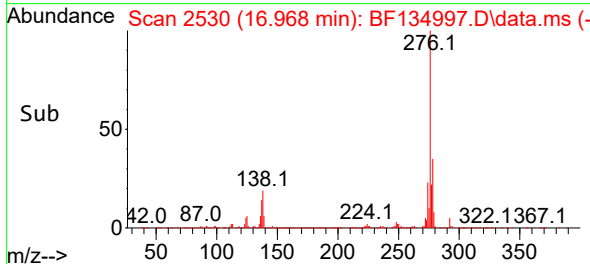
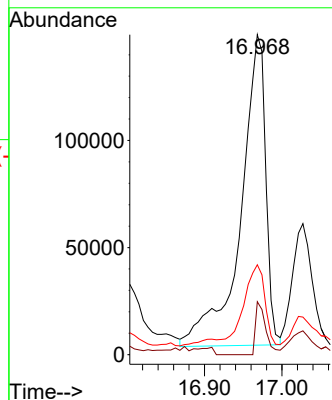
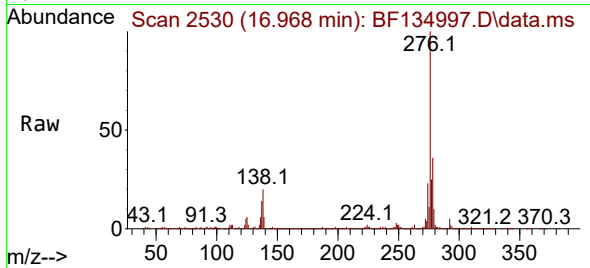
ClientSampleId :

TP-28(1.5-2.5)

Tgt Ion:278 Resp: 32564
Ion Ratio Lower Upper
278 100
139 16.5 12.2 18.4
279 28.1 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/30/2023
Supervised By :mohammad ahmed 08/30/2023



#92
Benzo(g,h,i)perylene
Concen: 67.226 ng
RT: 17.415 min Scan# 2606
Delta R.T. 0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:276 Resp: 855893
Ion Ratio Lower Upper
276 100
277 23.7 19.2 28.8
138 20.8 17.0 25.6

