

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
 Data File : BF134742.D
 Acq On : 11 Aug 2023 20:18
 Operator : CG\JU
 Sample : 03958-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB02-Z46-47

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

Quant Time: Aug 11 22:24:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	197188	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	742623	20.000	ng	# 0.00
39) Acenaphthene-d10	9.839	164	363479	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	544680	20.000	ng	# 0.00
76) Chrysene-d12	13.980	240	341588	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	302209	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	804380	62.009	ng	0.00
7) Phenol-d6	6.434	99	993760	59.929	ng	0.00
23) Nitrobenzene-d5	7.363	82	601453	50.613	ng	0.00
42) 2,4,6-Tribromophenol	10.628	330	214437	57.873	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1088044	49.771	ng	0.00
79) Terphenyl-d14	12.921	244	916254	47.286	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	5222609	139.931	ng	96
37) 2-Methylnaphthalene	8.798	142	1479721	59.813	ng	99
38) 1-Methylnaphthalene	8.904	142	2115298	91.951	ng	97
46) 1,1'-Biphenyl	9.257	154	738554	26.129	ng	98
49) Acenaphthylene	9.698	152	568233	17.069	ng	# 92
52) Acenaphthene	9.880	154	1886885	87.460	ng	99
55) Dibenzofuran	10.039	168	186949	6.087	ng	# 81
58) Fluorene	10.392	166	1089291	48.694	ng	94
71) Phenanthrene	11.369	178	3992030	137.984	ng	99
72) Anthracene	11.410	178	1613398	54.596	ng	98
75) Fluoranthene	12.551	202	2211786	72.374	ng	96
78) Pyrene	12.786	202	2941307	99.509	ng	95
81) Benzo(a)anthracene	13.974	228	1452218m	59.456	ng	
83) Chrysene	14.010	228	1241458	52.170	ng	98
87) Indeno(1,2,3-cd)pyrene	16.939	276	265025	14.911	ng	# 95
88) Benzo(b)fluoranthene	15.027	252	799195m	43.360	ng	
89) Benzo(k)fluoranthene	15.045	252	233856m	12.737	ng	
90) Benzo(a)pyrene	15.392	252	858438	49.952	ng	# 96
91) Dibenzo(a,h)anthracene	16.951	278	79307	5.521	ng	# 95
92) Benzo(g,h,i)perylene	17.392	276	287228	19.603	ng	# 93

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

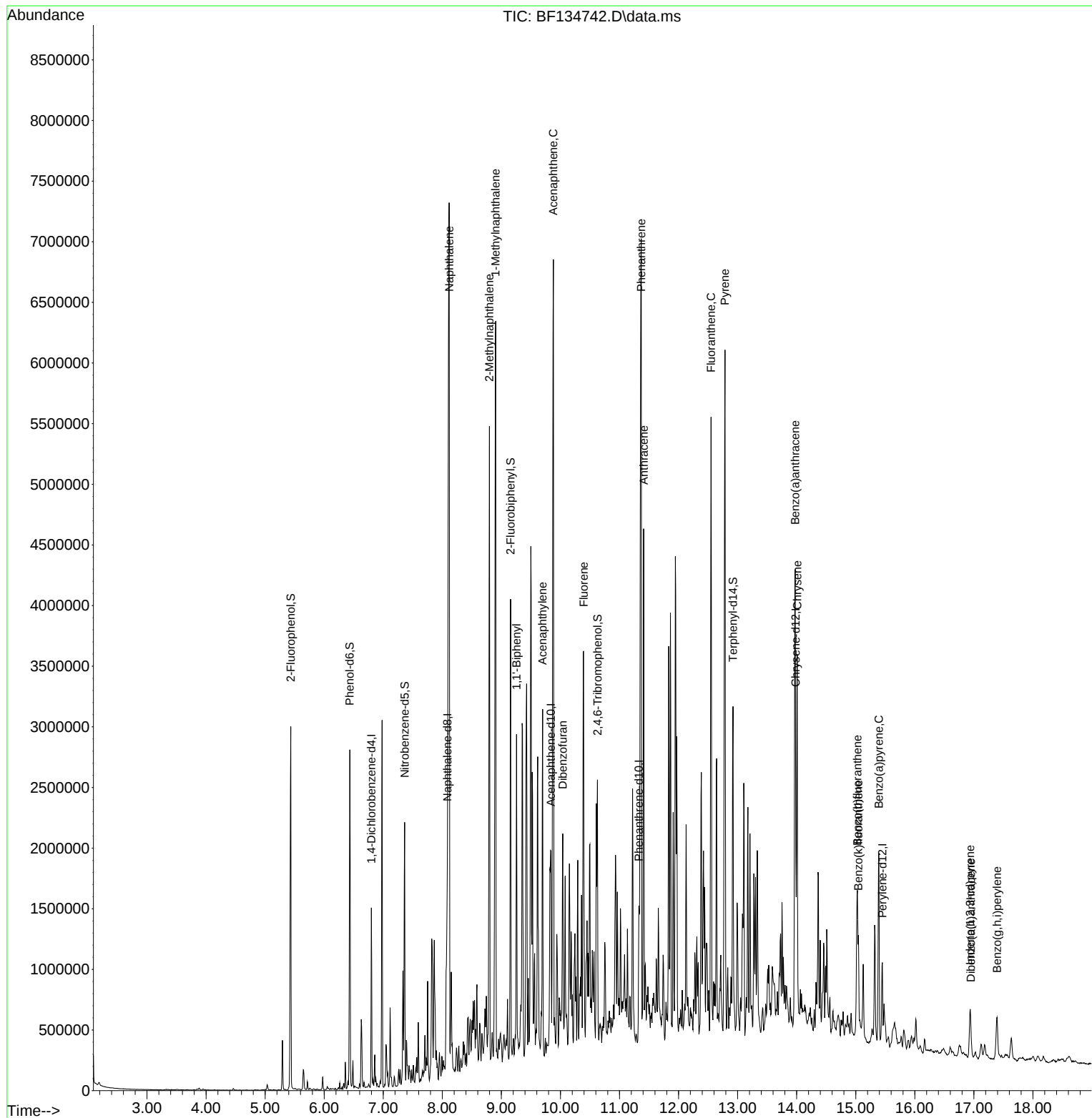
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
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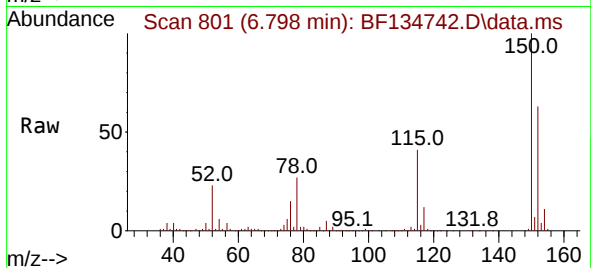
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

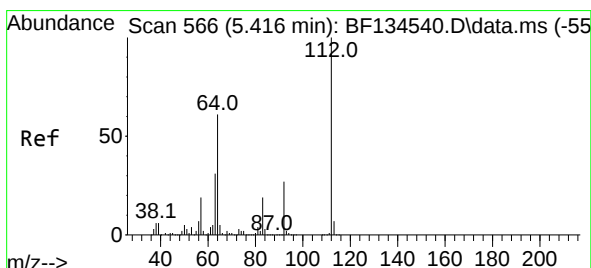
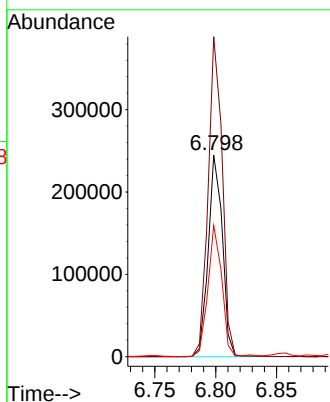
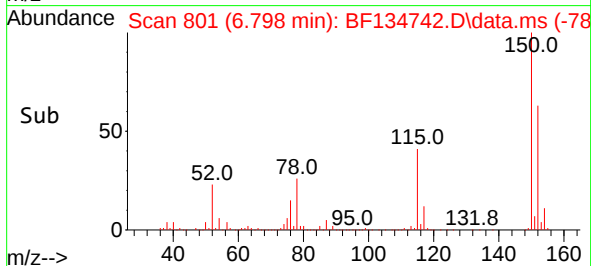
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



Tgt Ion:152 Resp: 197188
Ion Ratio Lower Upper
152 100
150 158.7 128.3 192.5
115 65.1 52.4 78.6

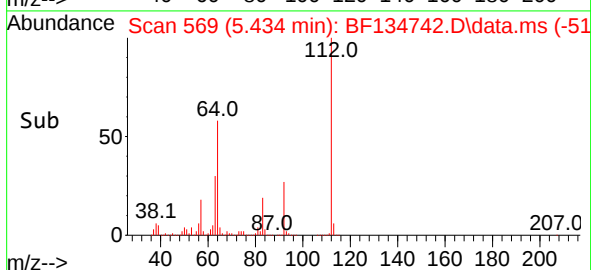
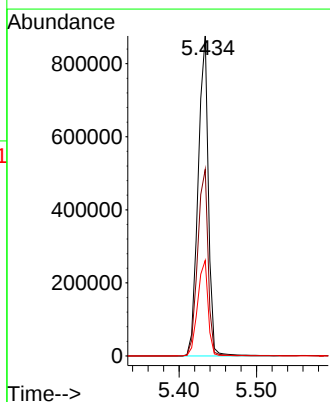
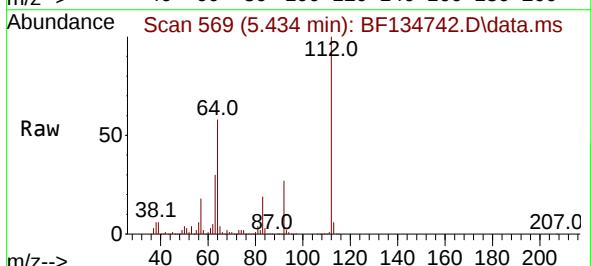
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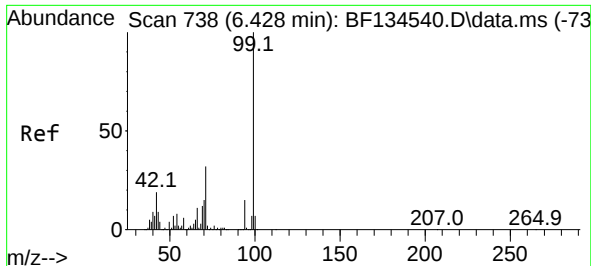
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#5
2-Fluorophenol
Concen: 62.009 ng
RT: 5.434 min Scan# 569
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

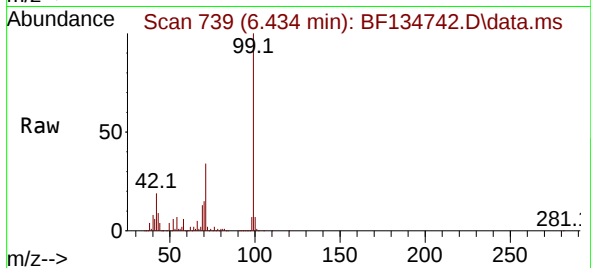
Tgt Ion:112 Resp: 804380
Ion Ratio Lower Upper
112 100
64 58.3 44.9 67.3
63 29.9 25.4 38.0





#7
Phenol-d6
Concen: 59.929 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

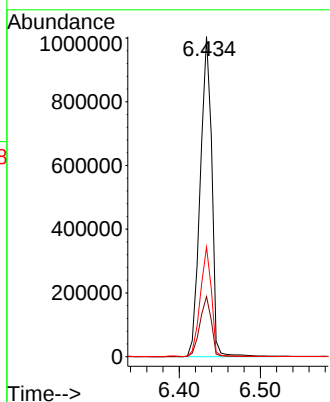
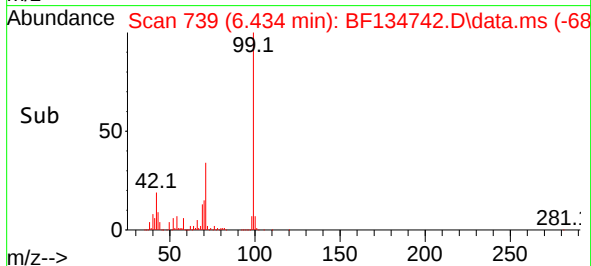
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



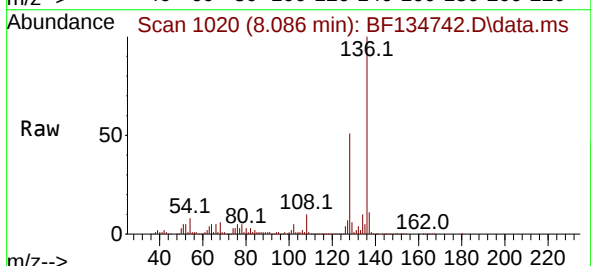
Tgt Ion: 99 Resp: 993760
Ion Ratio Lower Upper
99 100
42 18.8 18.7 28.1
71 34.3 36.4 54.6

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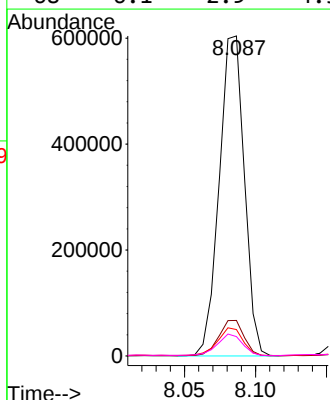
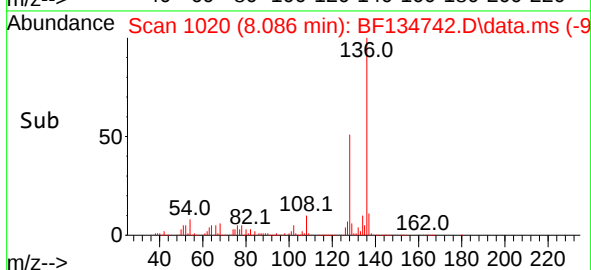
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

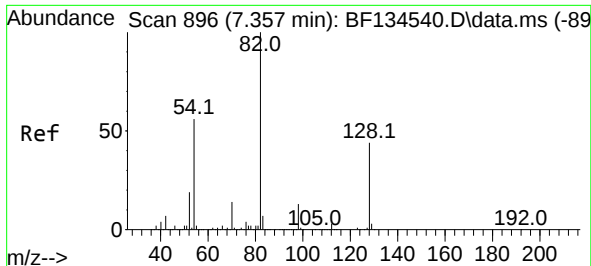


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1020
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18



Tgt Ion:136 Resp: 742623
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.3 5.2 7.8#
68 6.1 2.9 4.3#





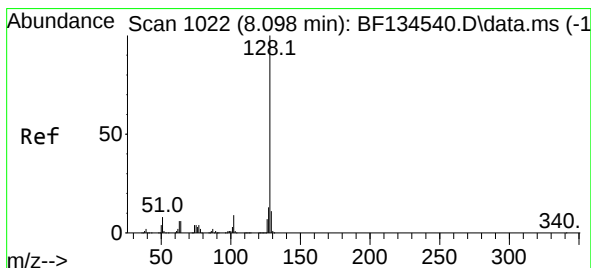
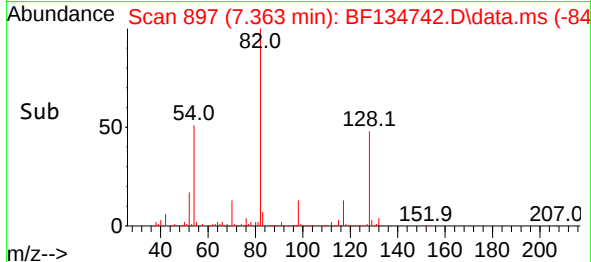
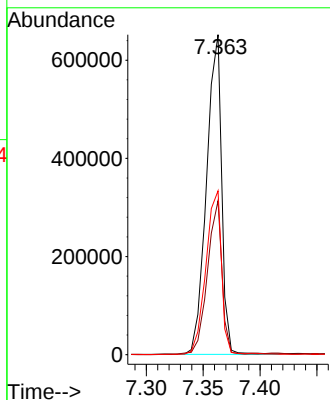
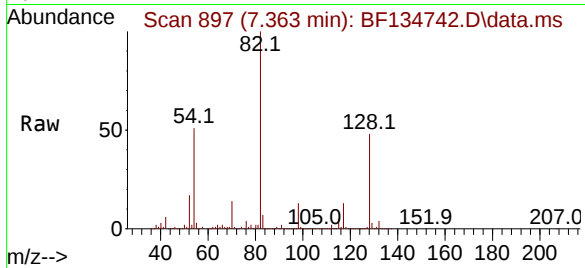
#23
Nitrobenzene-d5
Concen: 50.613 ng
RT: 7.363 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47

Tgt Ion: 82 Resp: 60145
Ion Ratio Lower Upper
82 100
128 48.1 34.3 51.5
54 51.2 43.8 65.6

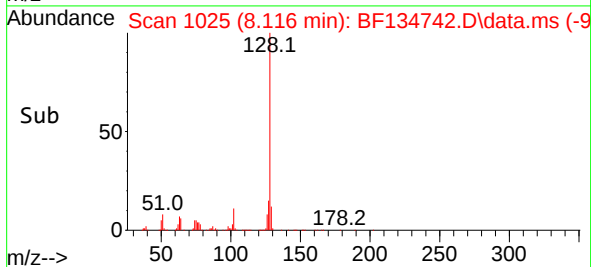
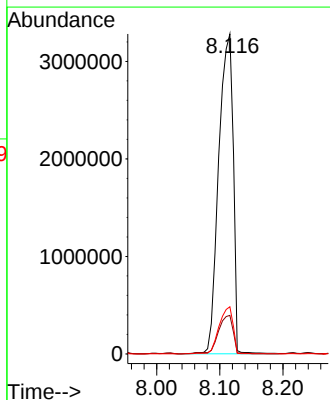
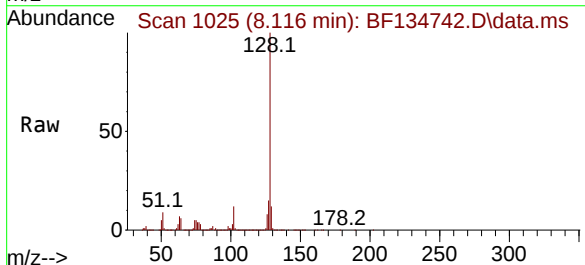
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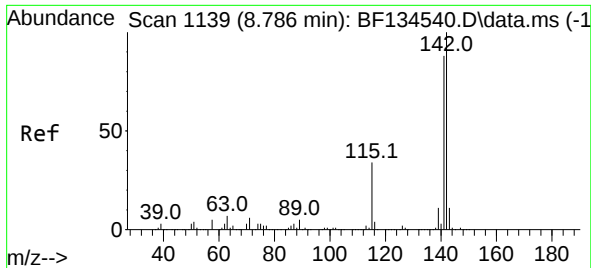
Reviewed By :Yogesh Patel 08/12/2023
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#31
Naphthalene
Concen: 139.931 ng
RT: 8.116 min Scan# 1025
Delta R.T. 0.012 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

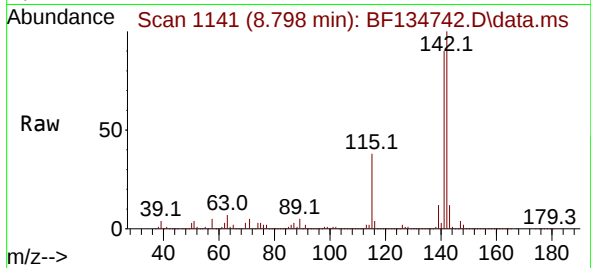
Tgt Ion:128 Resp: 5222609
Ion Ratio Lower Upper
128 100
129 12.0 8.4 12.6
127 14.8 10.7 16.1





#37
2-Methylnaphthalene
Concen: 59.813 ng
RT: 8.798 min Scan# 1139
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

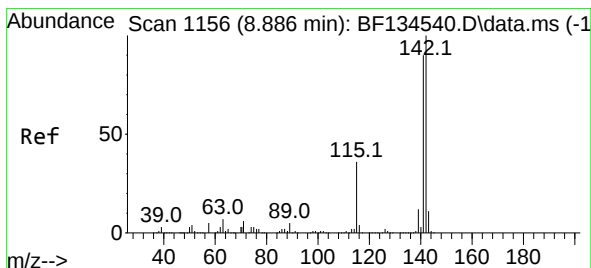
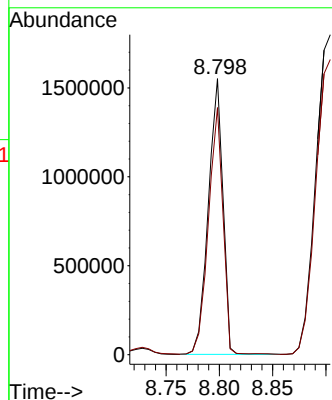
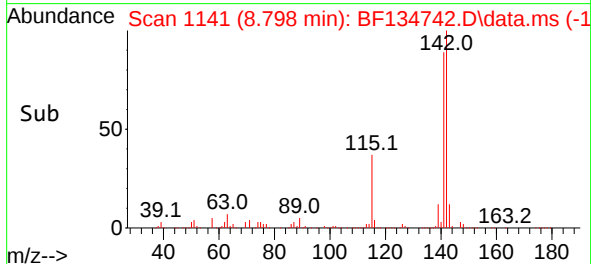
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



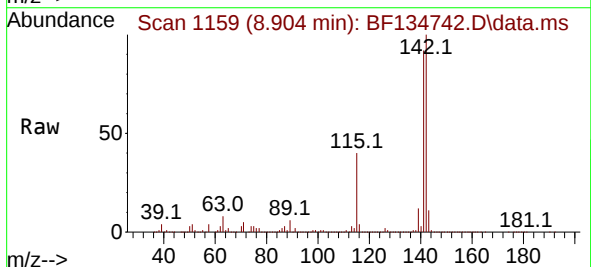
Tgt Ion:142 Resp: 147972
Ion Ratio Lower Upper
142 100
141 89.5 70.8 106.2

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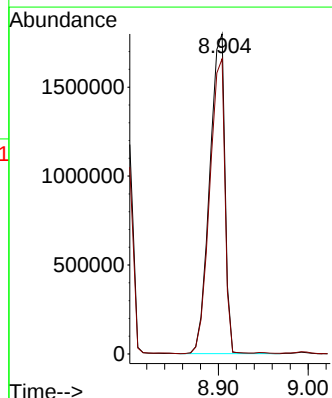
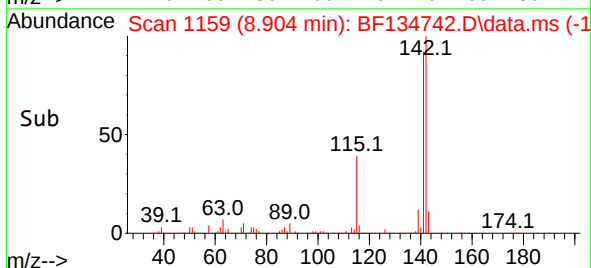
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

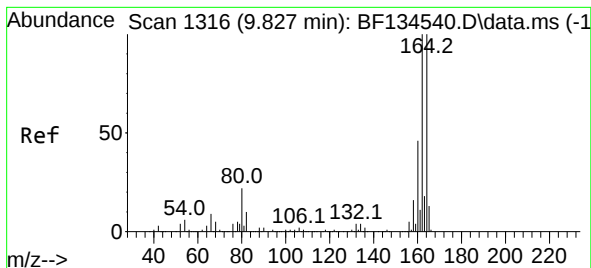


#38
1-Methylnaphthalene
Concen: 91.951 ng
RT: 8.904 min Scan# 1159
Delta R.T. 0.012 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18



Tgt Ion:142 Resp: 2115298
Ion Ratio Lower Upper
142 100
141 92.2 71.4 107.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB02-Z46-47

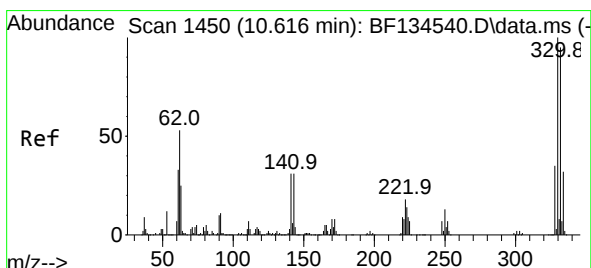
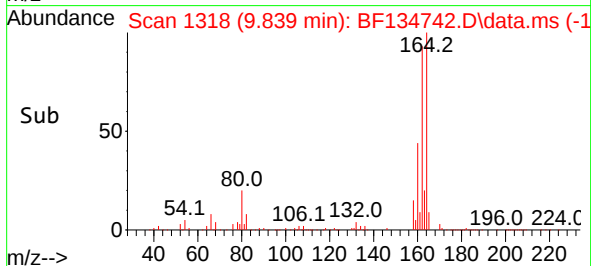
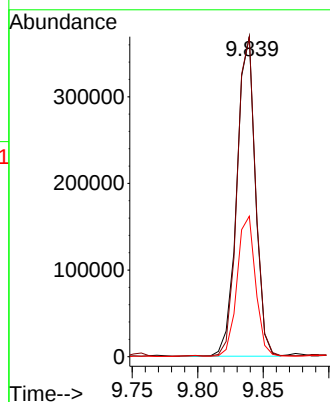
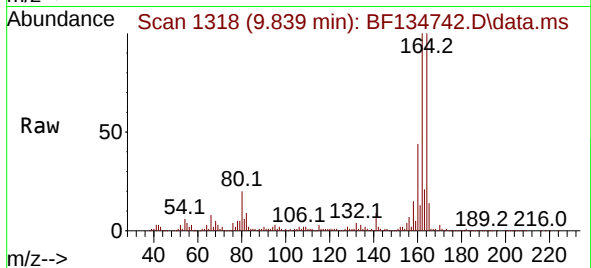
Tgt Ion:164 Resp: 363479
 Ion Ratio Lower Upper
 164 100
 162 99.9 82.6 123.8
 160 43.9 37.2 55.8

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 57.873 ng

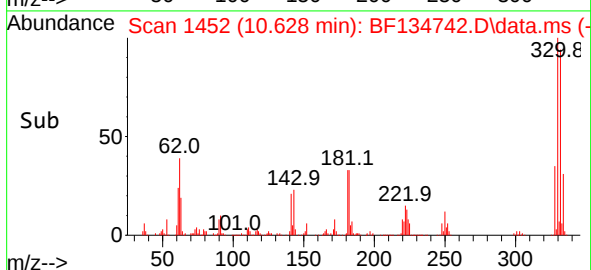
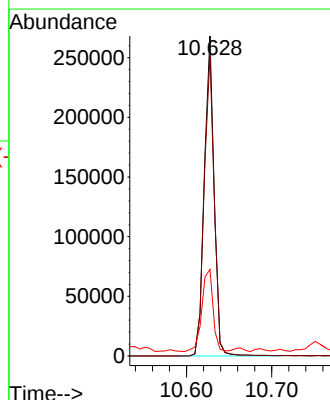
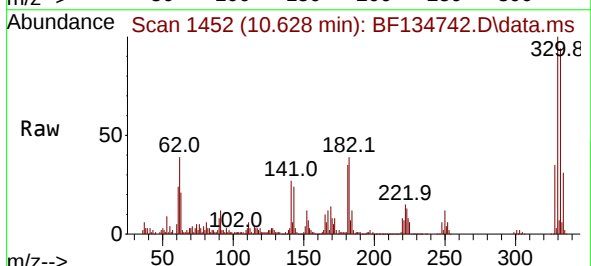
RT: 10.628 min Scan# 1452

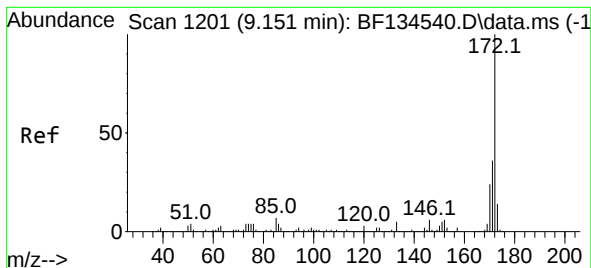
Delta R.T. 0.000 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Tgt Ion:330 Resp: 214437
 Ion Ratio Lower Upper
 330 100
 332 96.7 78.8 118.2
 141 29.0 25.4 38.2





#45

2-Fluorobiphenyl

Concen: 49.771 ng

RT: 9.157 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

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Tgt Ion:172 Resp: 108804

Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

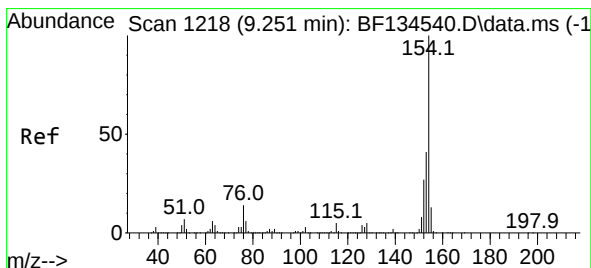
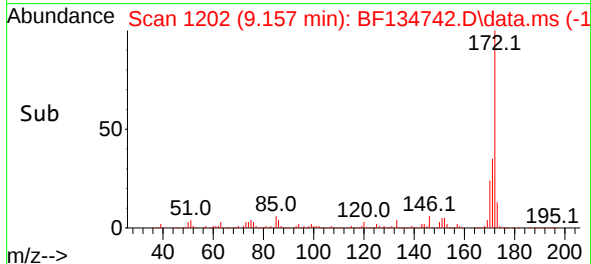
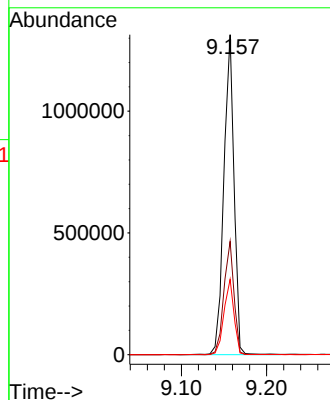
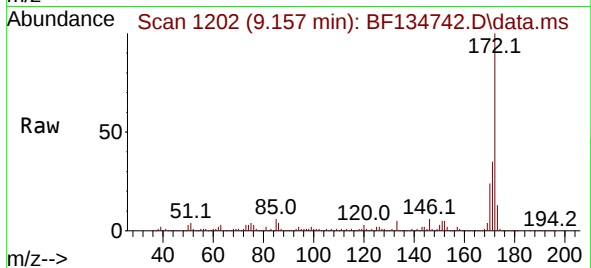
170 23.6 18.7 28.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#46

1,1'-Biphenyl

Concen: 26.129 ng

RT: 9.257 min Scan# 1219

Delta R.T. -0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

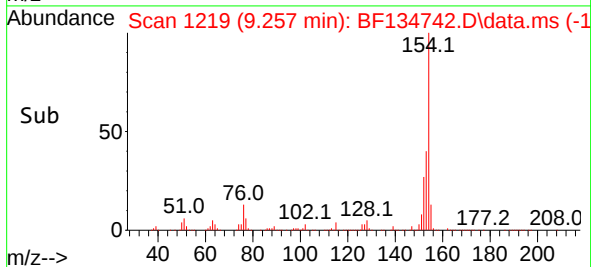
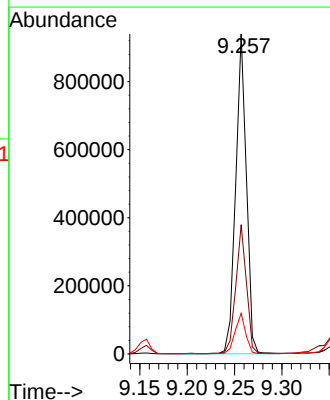
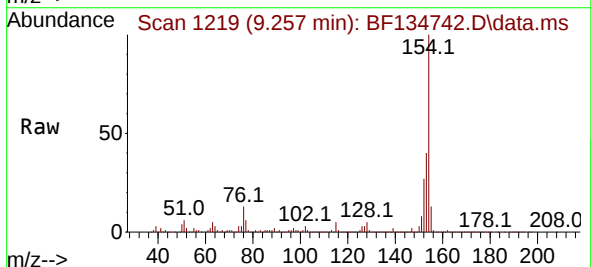
Tgt Ion:154 Resp: 738554

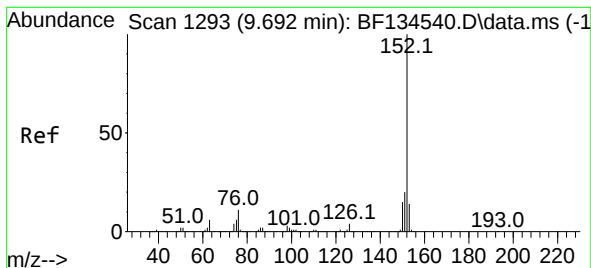
Ion Ratio Lower Upper

154 100

153 40.4 20.8 60.8

76 12.7 0.0 30.2





#49

Acenaphthylene

Concen: 17.069 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB02-Z46-47

Tgt Ion:152 Resp: 56823

Ion Ratio Lower Upper

152 100

151 21.2 16.4 24.6

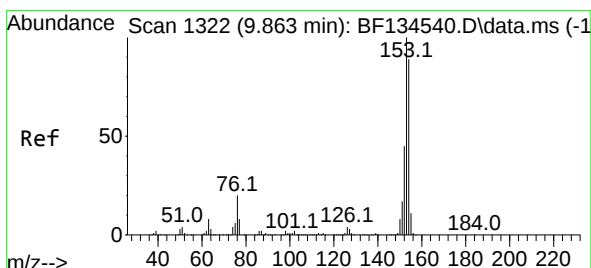
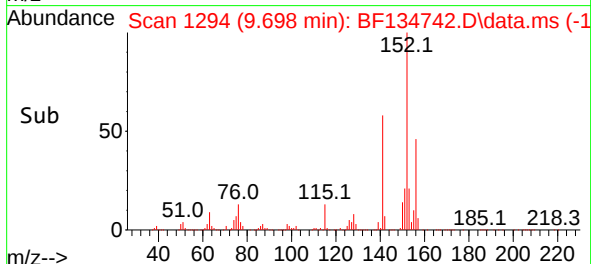
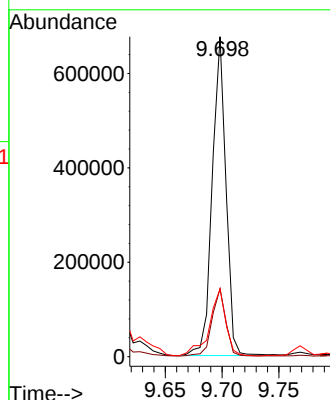
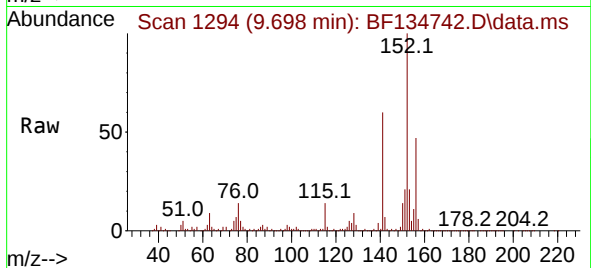
153 21.2 10.9 16.3

Manual Integrations

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Supervised By :mohammad ahmed 08/12/2023



#52

Acenaphthene

Concen: 87.460 ng

RT: 9.880 min Scan# 1325

Delta R.T. 0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

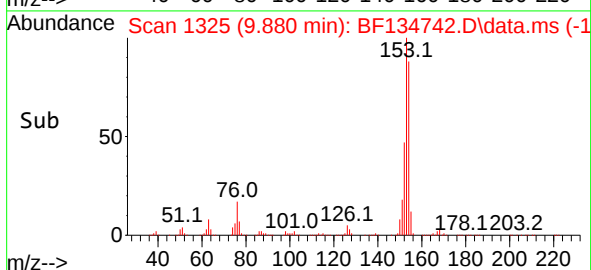
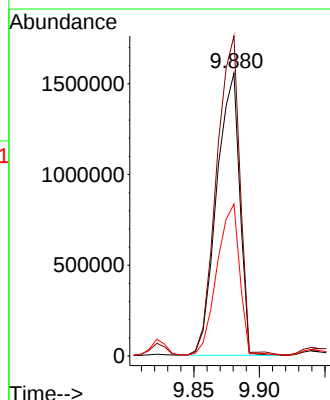
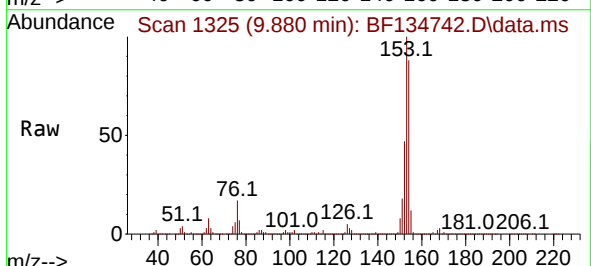
Tgt Ion:154 Resp: 1886885

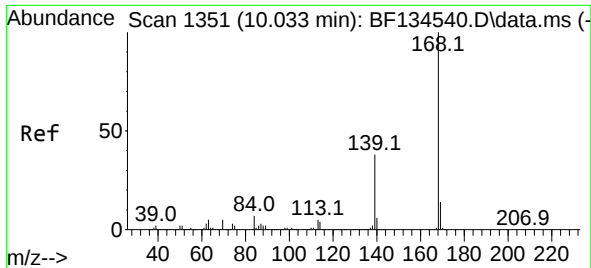
Ion Ratio Lower Upper

154 100

153 113.1 90.0 135.0

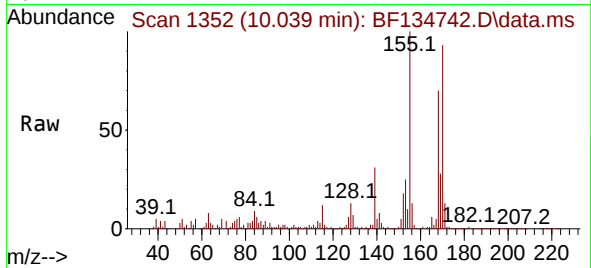
152 53.7 42.4 63.6





#55
Dibenzenofuran
Concen: 6.087 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

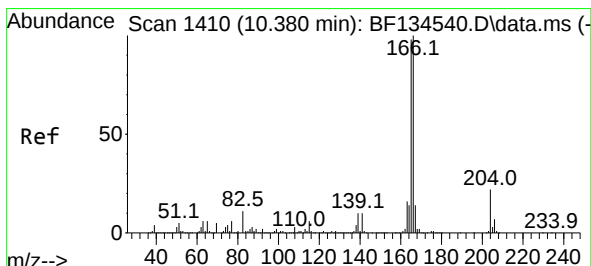
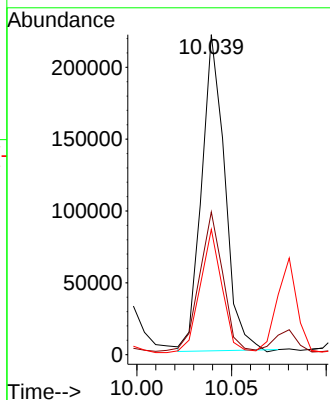
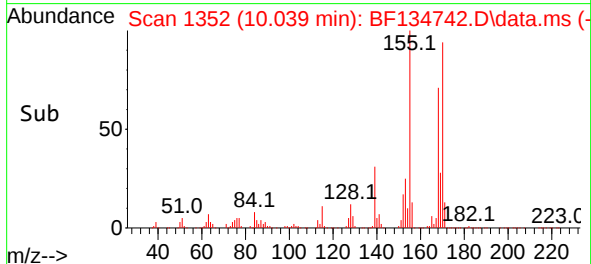
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



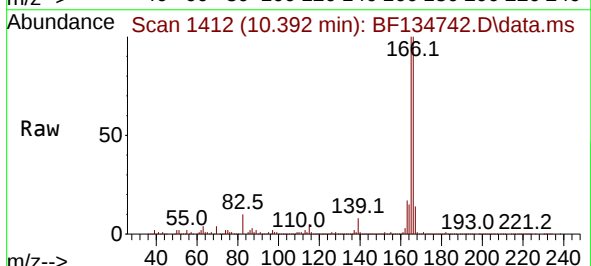
Tgt Ion:168 Resp: 186949
Ion Ratio Lower Upper
168 100
139 44.6 33.4 50.2
169 39.2 10.6 15.8

Manual Integrations
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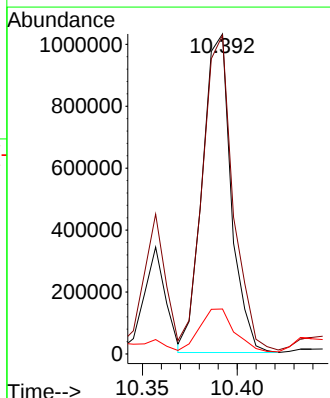
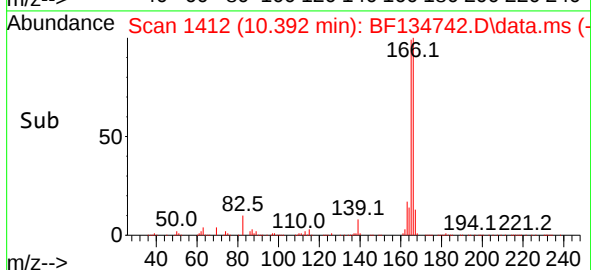
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

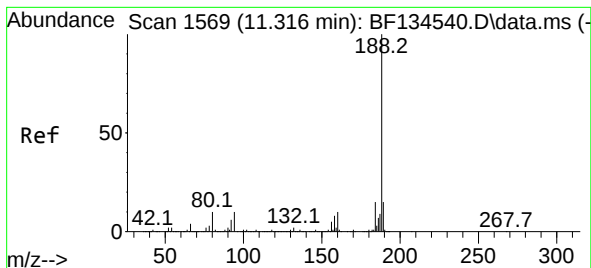


#58
Fluorene
Concen: 48.694 ng
RT: 10.392 min Scan# 1412
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18



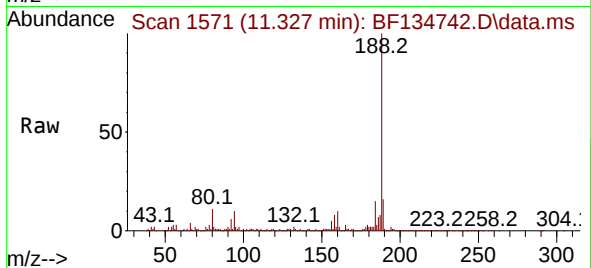
Tgt Ion:166 Resp: 1089291
Ion Ratio Lower Upper
166 100
165 99.6 74.5 111.7
167 14.1 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

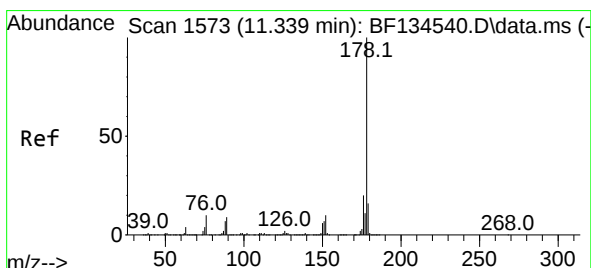
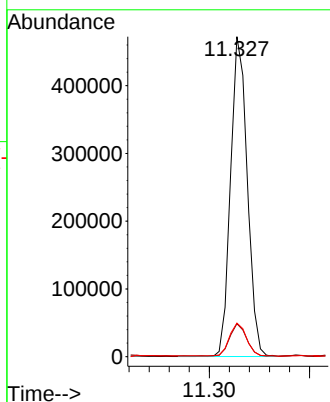
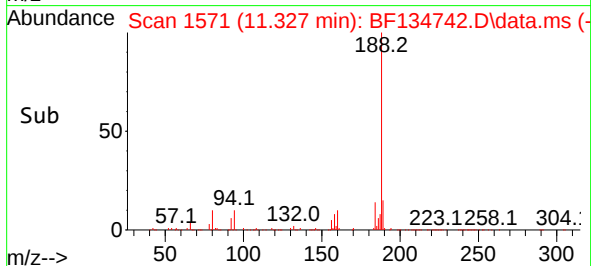
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



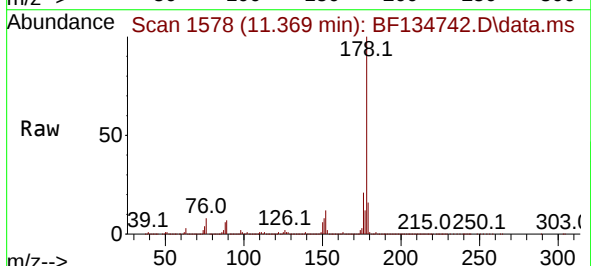
Tgt Ion:188 Resp: 544680
Ion Ratio Lower Upper
188 100
94 10.3 5.1 7.7
80 10.5 6.6 9.8

Manual Integrations
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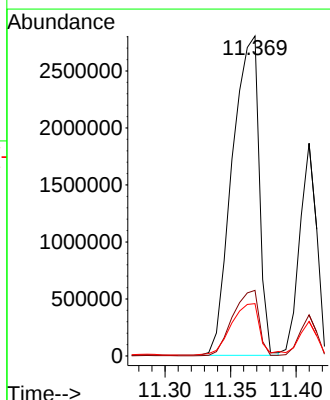
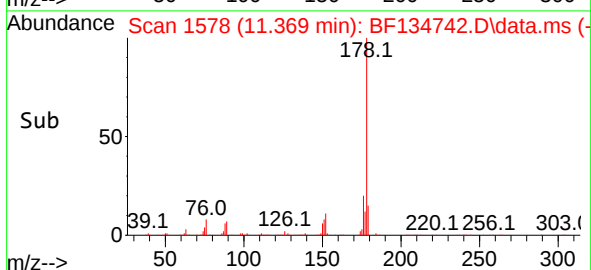
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

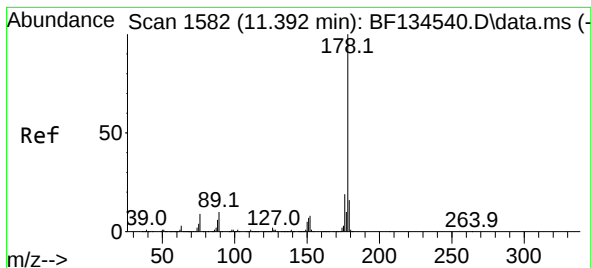


#71
Phenanthrene
Concen: 137.984 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.018 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18



Tgt Ion:178 Resp: 3992030
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.6
179 16.4 12.7 19.1





#72

Anthracene

Concen: 54.596 ng

RT: 11.410 min Scan# 1585

Delta R.T. 0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB02-Z46-47

Tgt Ion:178 Resp: 1613398

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

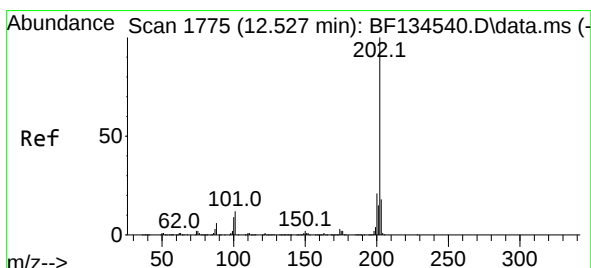
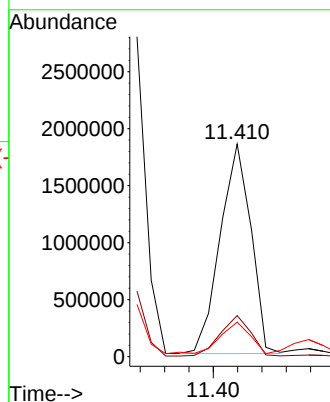
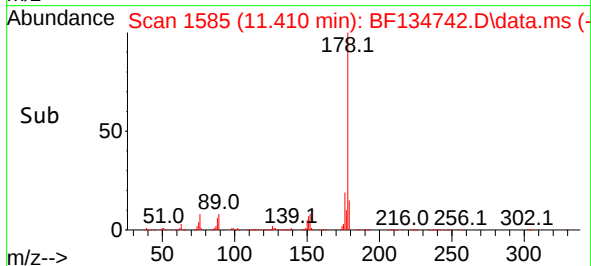
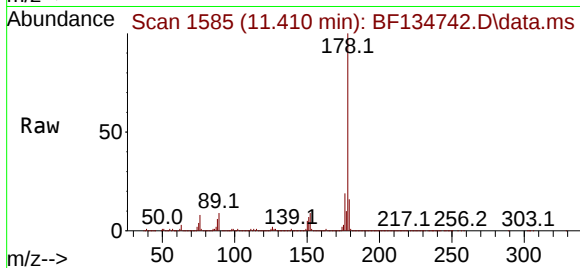
179 16.3 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#75

Fluoranthene

Concen: 72.374 ng

RT: 12.551 min Scan# 1779

Delta R.T. 0.012 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

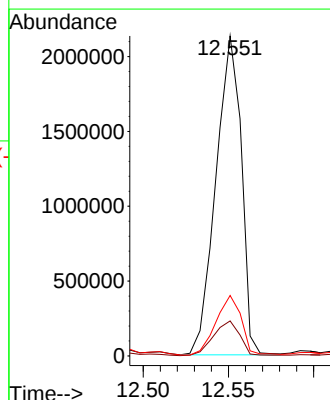
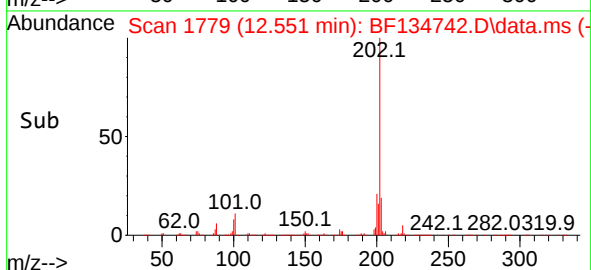
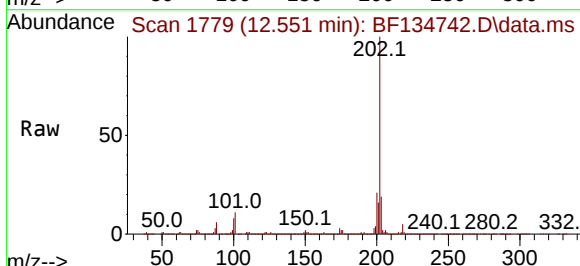
Tgt Ion:202 Resp: 2211786

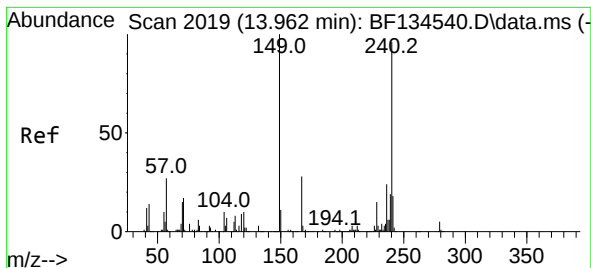
Ion Ratio Lower Upper

202 100

101 11.0 0.0 28.5

203 18.9 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.980 min Scan# 2019

Delta R.T. 0.006 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

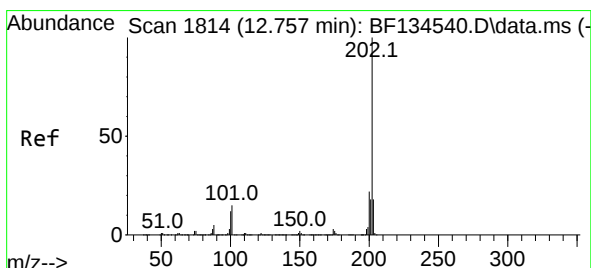
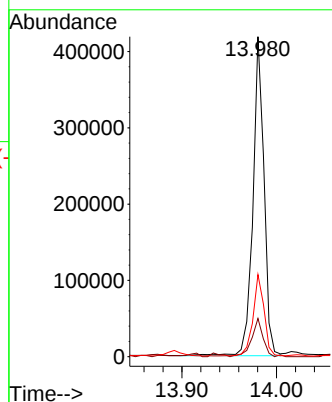
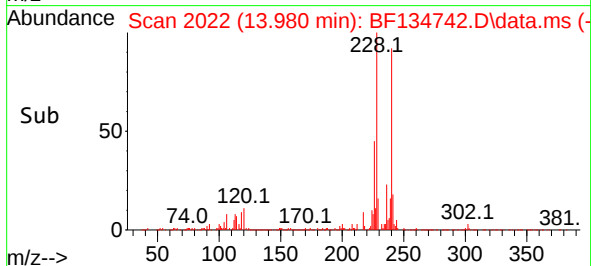
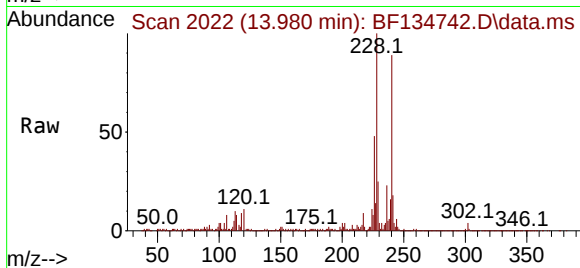
ClientSampleId :

NEVINS-SB02-Z46-47

Tgt Ion:240 Resp: 341588
 Ion Ratio Lower Upper
 240 100
 120 11.9 6.6 10.0
 236 25.7 20.2 30.2

Manual Integrations
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Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023



#78

Pyrene

Concen: 99.509 ng

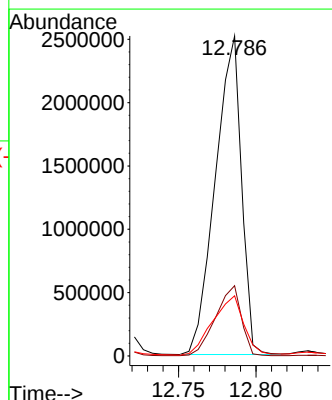
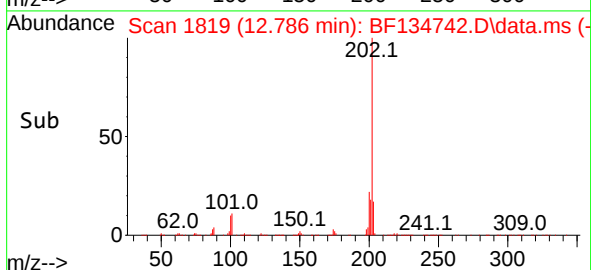
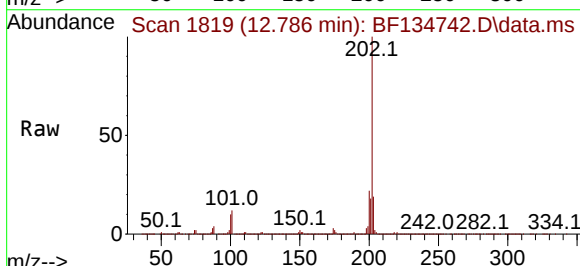
RT: 12.786 min Scan# 1819

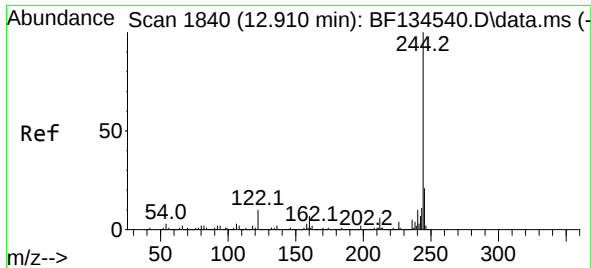
Delta R.T. 0.018 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

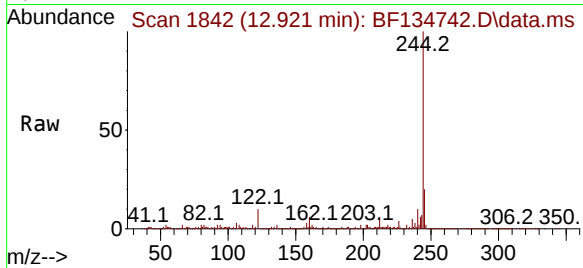
Tgt Ion:202 Resp: 2941307
 Ion Ratio Lower Upper
 202 100
 200 21.9 15.8 23.8
 203 18.8 13.5 20.3





#79
 Terphenyl-d14
 Concen: 47.286 ng
 RT: 12.921 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF134742.D
 Acq: 11 Aug 2023 20:18

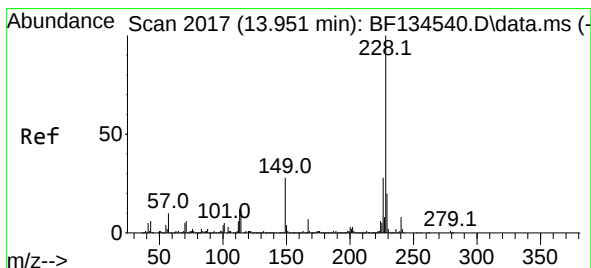
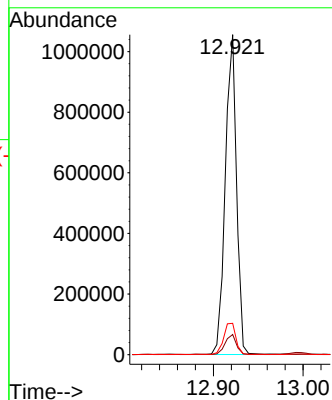
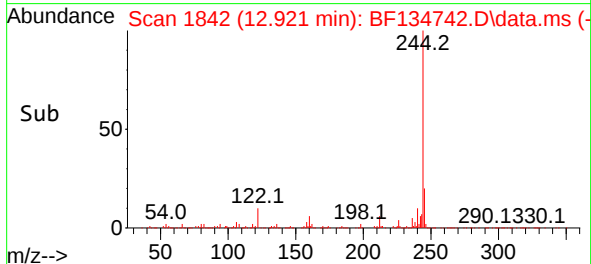
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB02-Z46-47



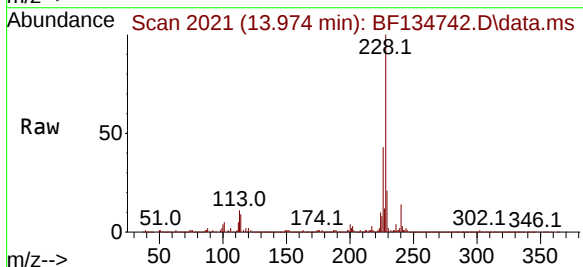
Tgt Ion:244 Resp: 916254
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.6 8.4
 122 9.8 8.0 12.0

Manual Integrations
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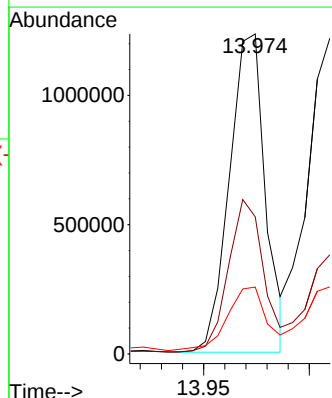
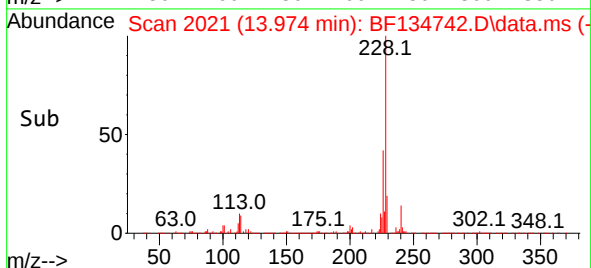
Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

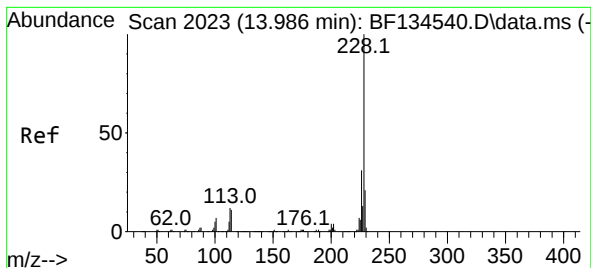


#81
 Benzo(a)anthracene
 Concen: 59.456 ng m
 RT: 13.974 min Scan# 2021
 Delta R.T. 0.012 min
 Lab File: BF134742.D
 Acq: 11 Aug 2023 20:18



Tgt Ion:228 Resp: 1452218
 Ion Ratio Lower Upper
 228 100
 226 42.8 22.3 33.5#
 229 20.9 15.8 23.6





#83

Chrysene

Concen: 52.170 ng

RT: 14.010 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB02-Z46-47

Tgt Ion:228 Resp: 1241458

Ion Ratio Lower Upper

228 100

226 31.4 24.5 36.7

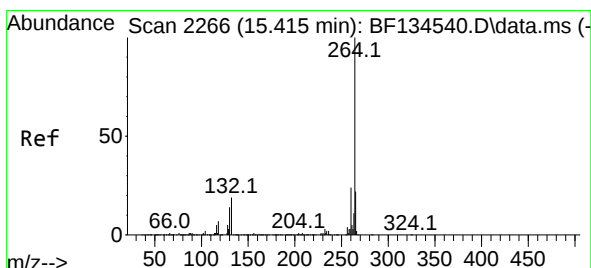
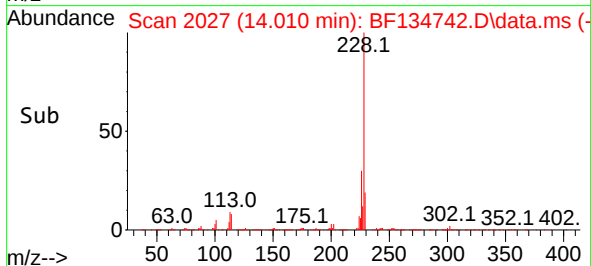
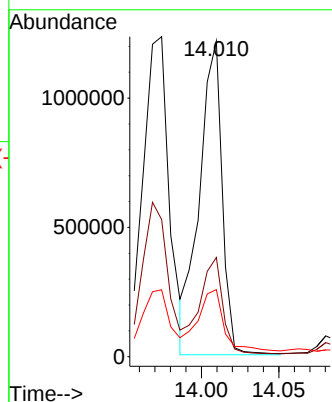
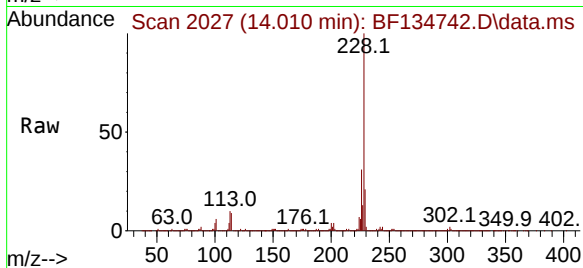
229 21.2 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 2272

Delta R.T. 0.012 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

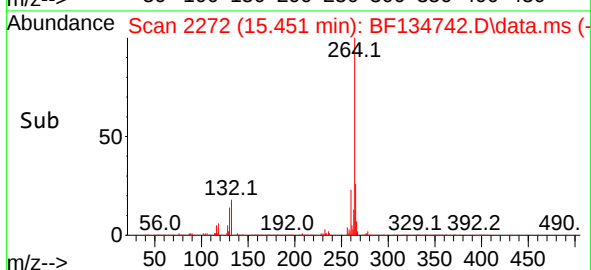
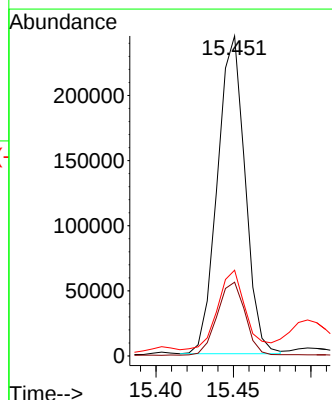
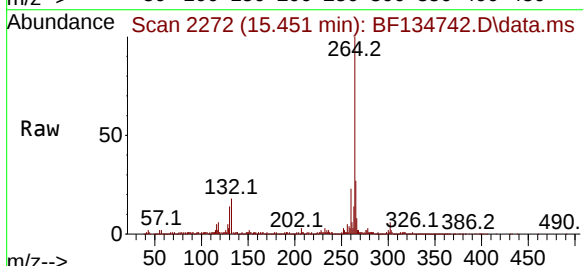
Tgt Ion:264 Resp: 302209

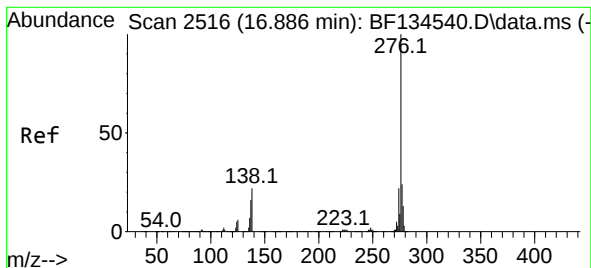
Ion Ratio Lower Upper

264 100

260 23.0 18.4 27.6

265 26.8 15.8 23.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 14.911 ng

RT: 16.939 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB02-Z46-47

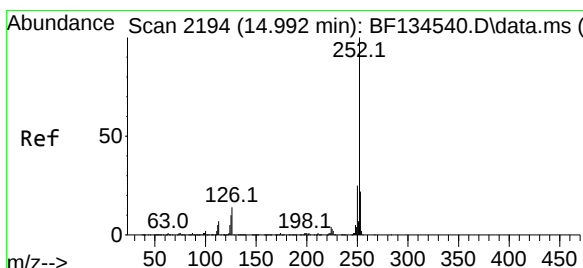
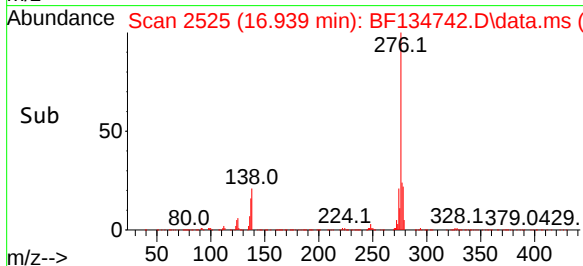
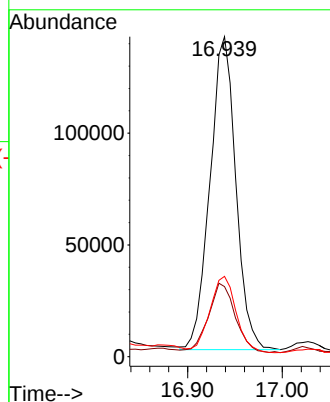
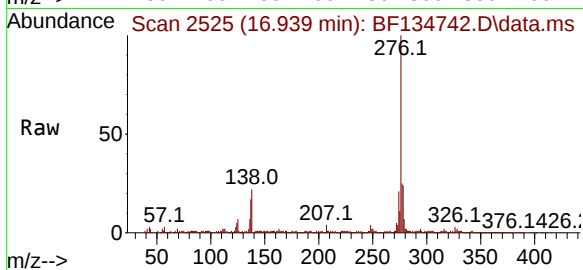
Tgt Ion:276 Resp: 265025
 Ion Ratio Lower Upper
 276 100
 138 23.0 14.2 21.4
 277 25.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#88

Benzo(b)fluoranthene

Concen: 43.360 ng m

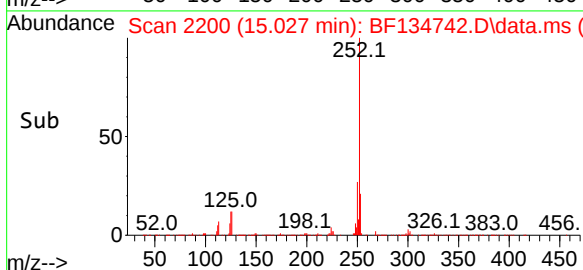
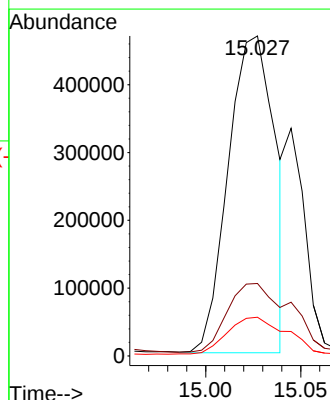
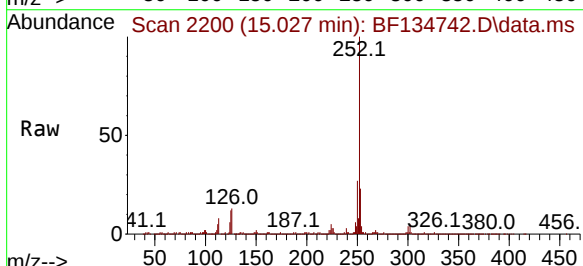
RT: 15.027 min Scan# 2200

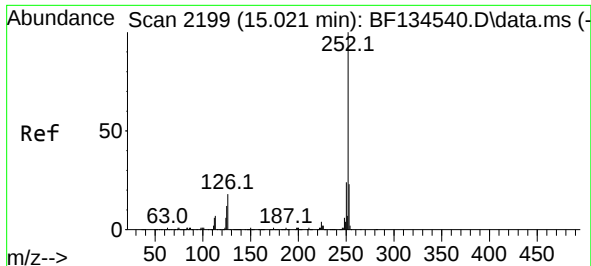
Delta R.T. 0.018 min

Lab File: BF134742.D

Acq: 11 Aug 2023 20:18

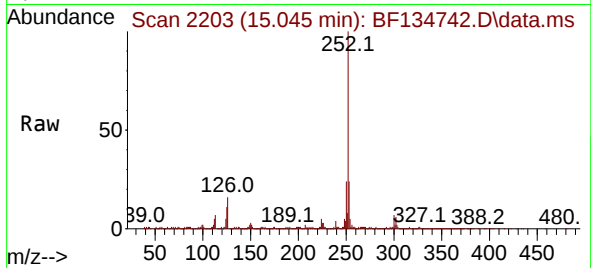
Tgt Ion:252 Resp: 799195
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.3 25.9
 125 12.1 6.0 9.0





#89
Benzo(k)fluoranthene
Concen: 12.737 ng m
RT: 15.045 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

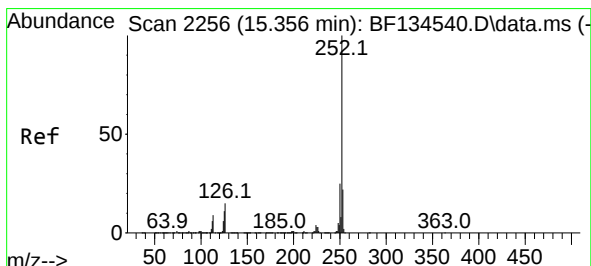
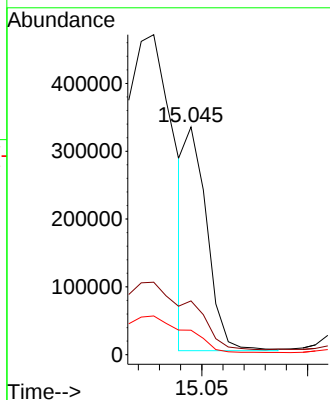
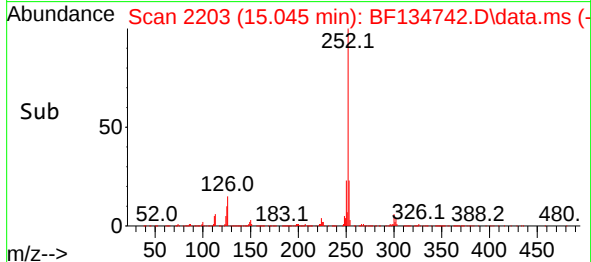
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47



Tgt Ion:252 Resp: 233850
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 10.7 6.3 9.5

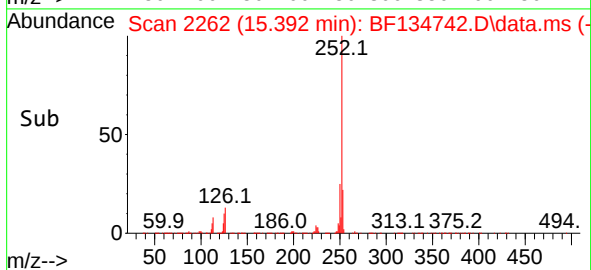
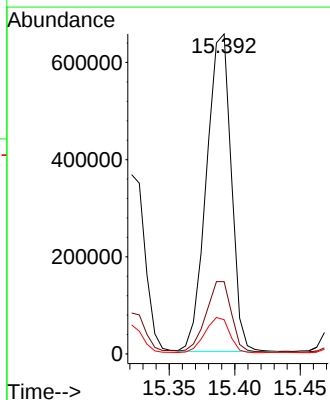
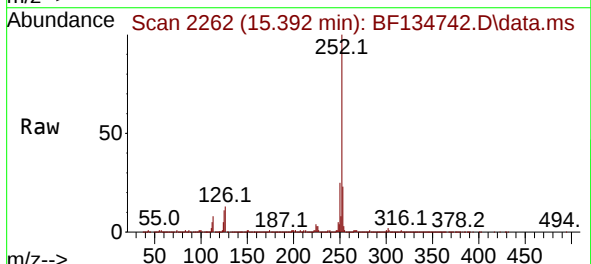
Manual Integrations
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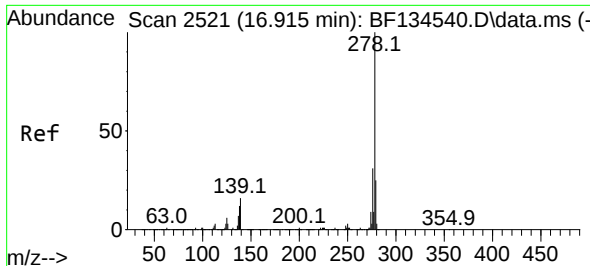
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#90
Benzo(a)pyrene
Concen: 49.952 ng
RT: 15.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

Tgt Ion:252 Resp: 858438
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.4
125 10.7 6.2 9.4





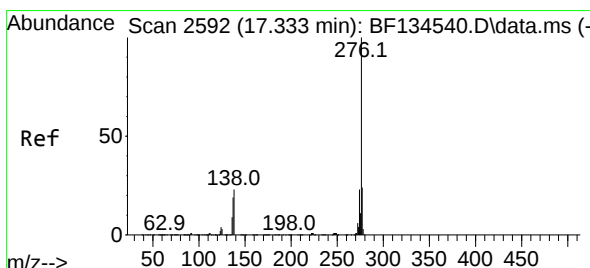
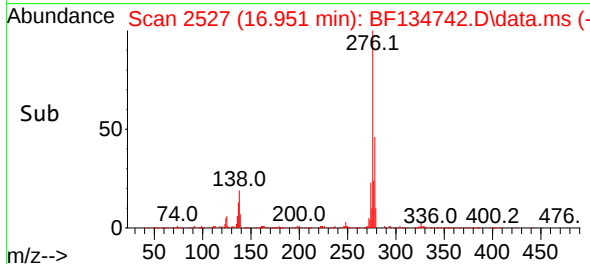
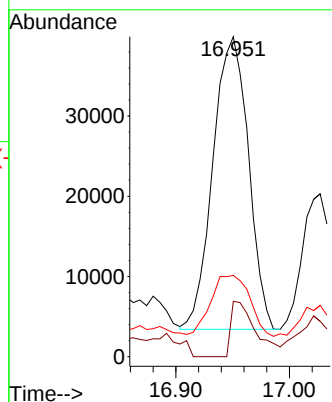
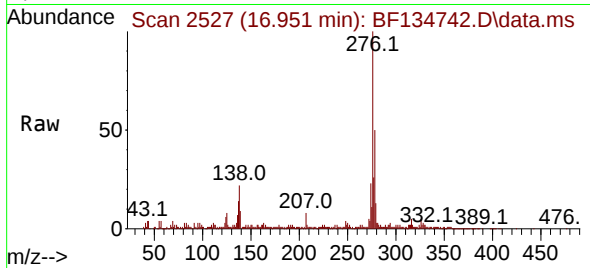
#91
Dibenzo(a,h)anthracene
Concen: 5.521 ng
RT: 16.951 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

Instrument :
BNA_F
ClientSampleId :
NEVINS-SB02-Z46-47

Tgt Ion:278 Resp: 7930
Ion Ratio Lower Upper
278 100
139 17.3 10.0 15.0
279 25.4 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#92
Benzo(g,h,i)perylene
Concen: 19.603 ng
RT: 17.392 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF134742.D
Acq: 11 Aug 2023 20:18

Tgt Ion:276 Resp: 287228
Ion Ratio Lower Upper
276 100
277 24.3 19.0 28.6
138 21.7 12.2 18.2#

