

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081623\
 Data File : BF134804.D
 Acq On : 16 Aug 2023 12:39
 Operator : CG\JU
 Sample : 03994-02DL 100X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB06-Z36-37DL

Quant Time: Aug 17 01:31:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/17/2023
 Supervised By :mohammad ahmed 08/17/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	137676	20.000	ng	0.00
21) Naphthalene-d8	8.087	136	524466	20.000	ng	# 0.00
39) Acenaphthene-d10	9.834	164	237555	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	357765	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	233828	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	177060	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	5777	0.638	ng	0.00
7) Phenol-d6	6.428	99	8062	0.696	ng	-0.01
23) Nitrobenzene-d5	7.357	82	5744	0.684	ng	-0.01
42) 2,4,6-Tribromophenol	10.628	330	1364	0.563	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	12506	0.875	ng	-0.01
79) Terphenyl-d14	12.916	244	10839	0.817	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	4688249	177.864	ng	96
37) 2-Methylnaphthalene	8.804	142	1579488	90.404	ng	99
38) 1-Methylnaphthalene	8.898	142	1027784	63.261	ng	97
46) 1,1'-Biphenyl	9.257	154	275838	14.932	ng	98
49) Acenaphthylene	9.698	152	105755	4.861	ng	# 89
52) Acenaphthene	9.875	154	678866	48.146	ng	99
55) Dibenzofuran	10.039	168	51977	2.589	ng	# 85
58) Fluorene	10.386	166	344620	23.571	ng	96
71) Phenanthrene	11.351	178	1233459	64.909	ng	100
72) Anthracene	11.404	178	364619	18.784	ng	99
75) Fluoranthene	12.545	202	484964	24.160	ng	98
78) Pyrene	12.775	202	750478	37.091	ng	98
81) Benzo(a)anthracene	13.963	228	215836m	12.909	ng	
83) Chrysene	13.998	228	179358	11.011	ng	98
87) Indeno(1,2,3-cd)pyrene	16.945	276	41781	4.012	ng	# 93
88) Benzo(b)fluoranthene	15.016	252	107164m	9.924	ng	
89) Benzo(k)fluoranthene	15.045	252	26108m	2.427	ng	
90) Benzo(a)pyrene	15.386	252	117457	11.666	ng	# 97
92) Benzo(g,h,i)perylene	17.392	276	44315	5.162	ng	# 92

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

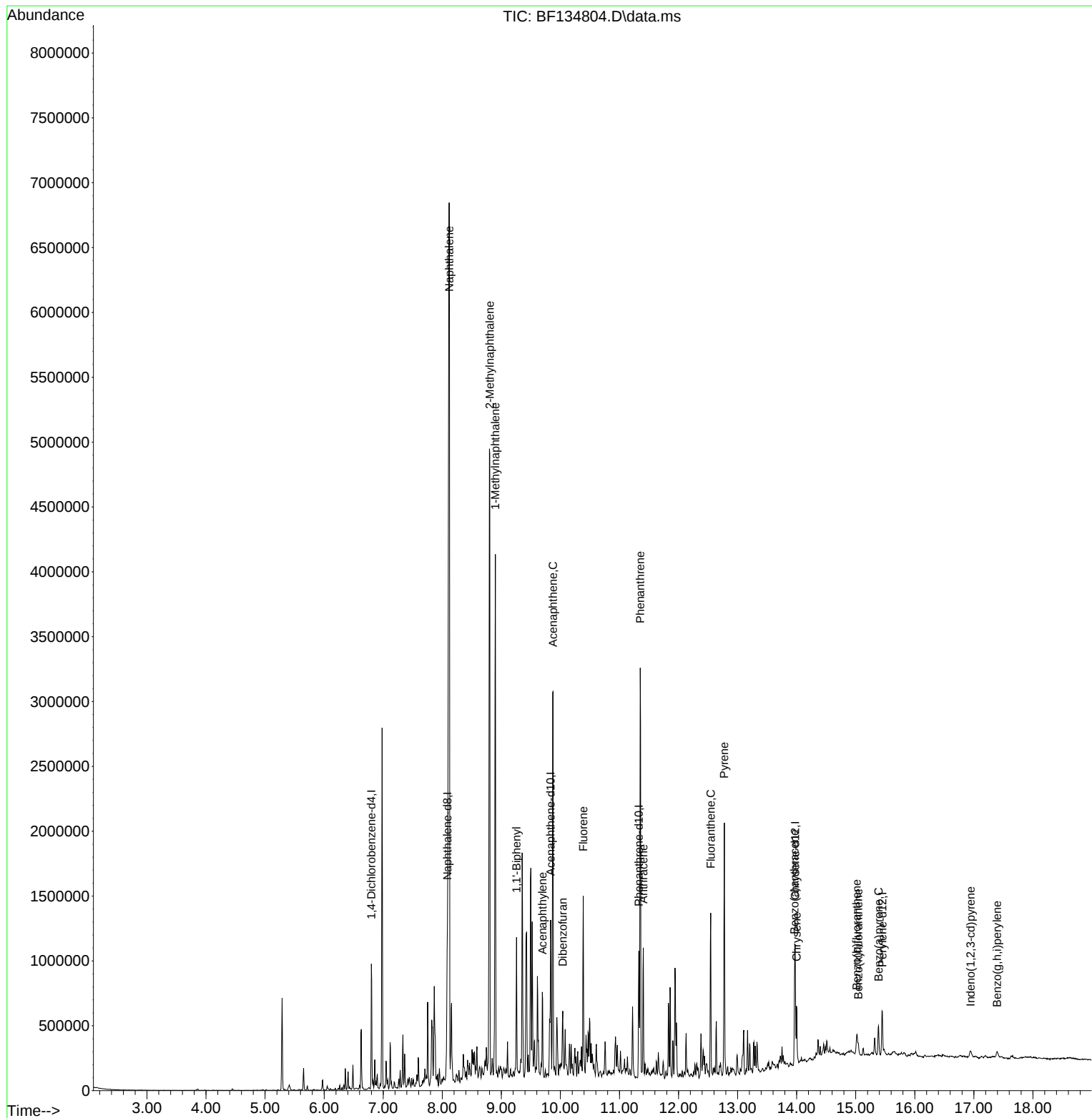
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081623\
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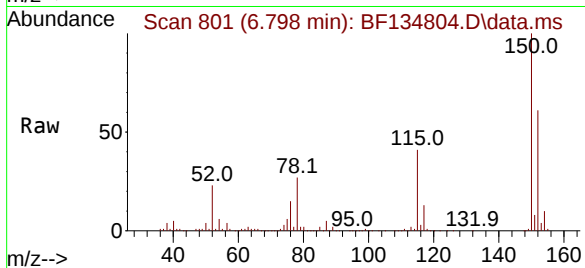
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

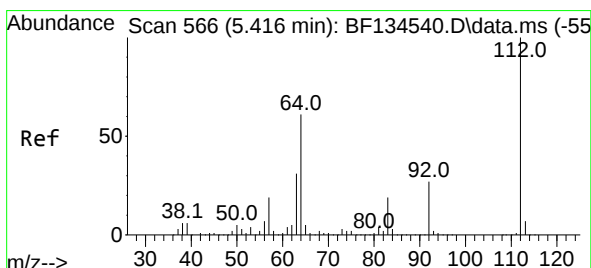
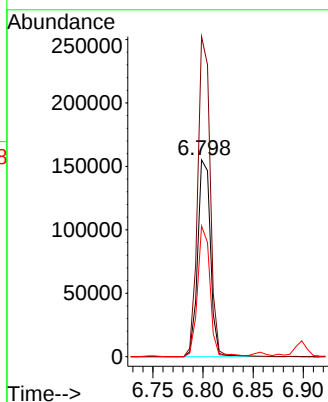
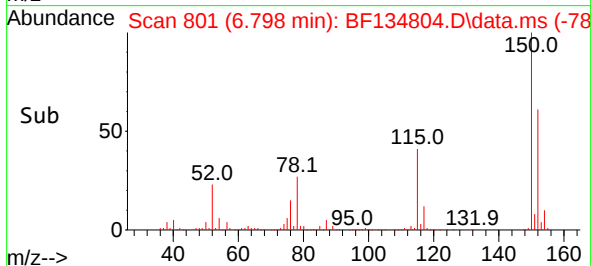
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



Tgt Ion:152 Resp: 137670
Ion Ratio Lower Upper
152 100
150 162.6 128.3 192.5
115 66.4 52.4 78.6

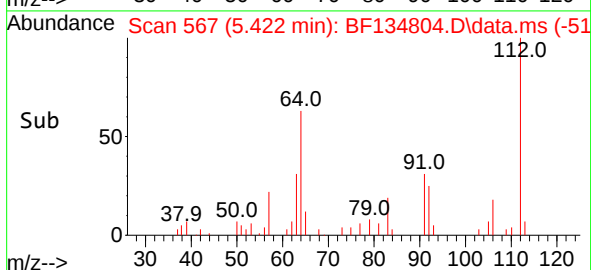
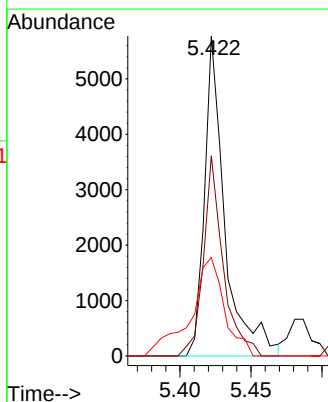
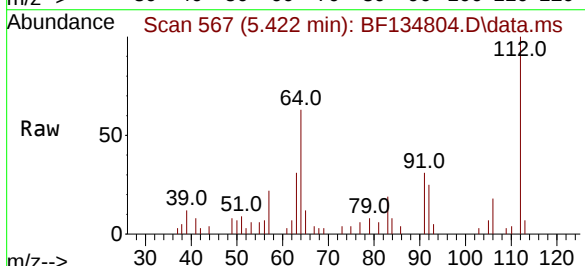
Manual Integrations
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Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#5
2-Fluorophenol
Concen: 0.638 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

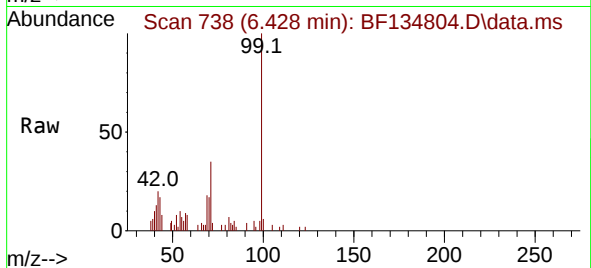
Tgt Ion:112 Resp: 5777
Ion Ratio Lower Upper
112 100
64 62.6 44.9 67.3
63 30.8 25.4 38.0





#7
Phenol-d6
Concen: 0.696 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

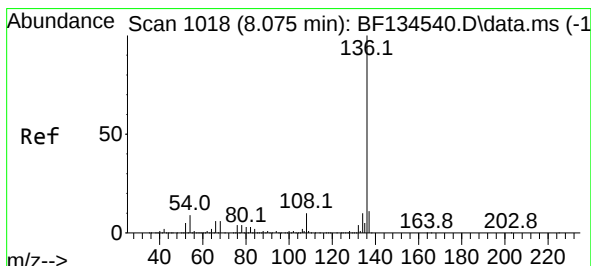
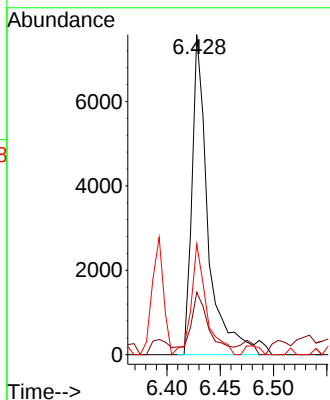
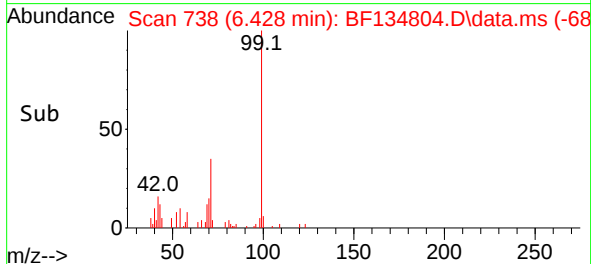
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



Tgt Ion: 99 Resp: 8062
Ion Ratio Lower Upper
99 100
42 19.5 18.7 28.1
71 34.5 36.4 54.6

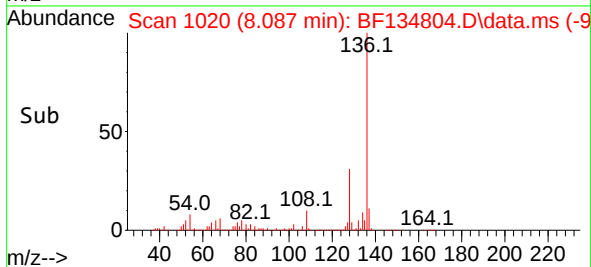
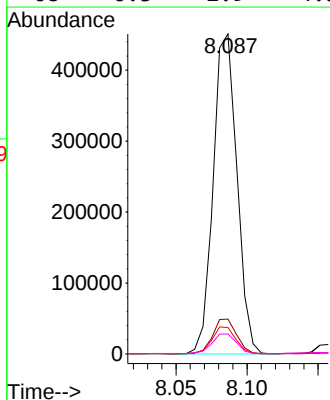
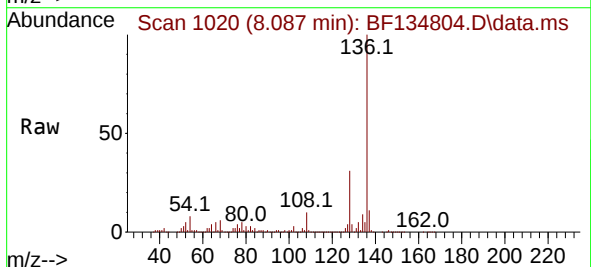
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Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.087 min Scan# 1020
Delta R.T. 0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

Tgt Ion:136 Resp: 524466
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 8.3 5.2 7.8#
68 6.3 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 0.684 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF134804.D

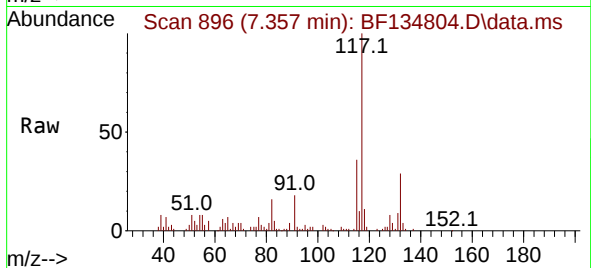
Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL



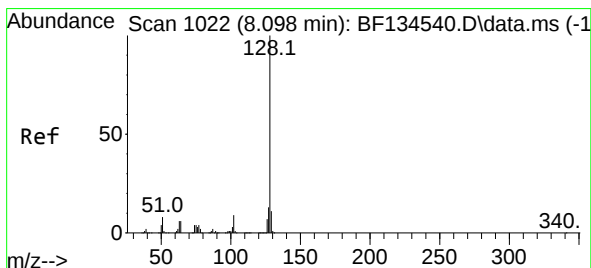
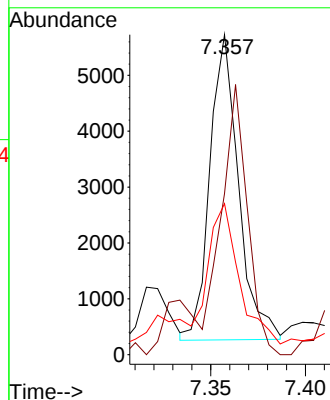
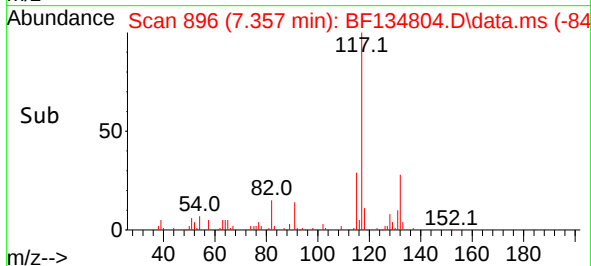
Tgt Ion:	82	Resp:	574
Ion Ratio	Lower	Upper	
82	100		
128	50.4	34.3	51.5
54	47.2	43.8	65.6

Manual Integrations

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Supervised By :mohammad ahmed 08/17/2023



#31

Naphthalene

Concen: 177.864 ng

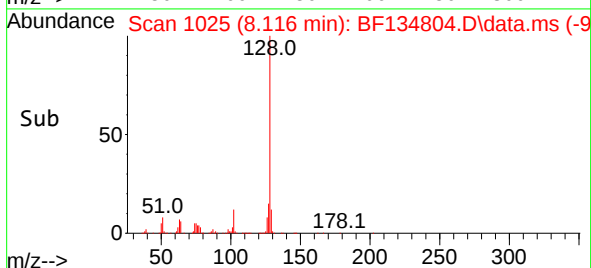
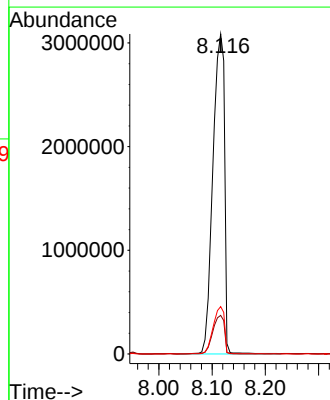
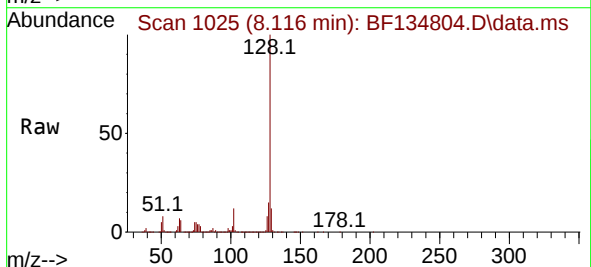
RT: 8.116 min Scan# 1025

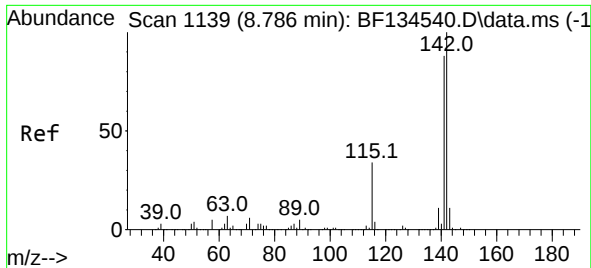
Delta R.T. 0.012 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

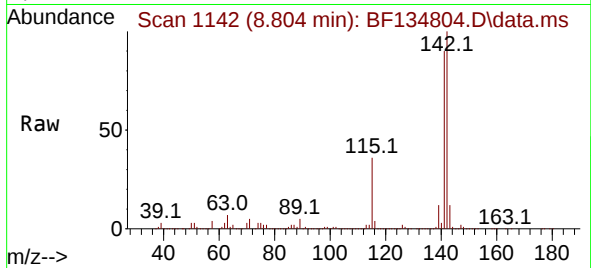
Tgt Ion:	128	Resp:	4688249
Ion Ratio	Lower	Upper	
128	100		
129	12.1	8.4	12.6
127	14.8	10.7	16.1





#37
2-Methylnaphthalene
Concen: 90.404 ng
RT: 8.804 min Scan# 1142
Delta R.T. 0.012 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

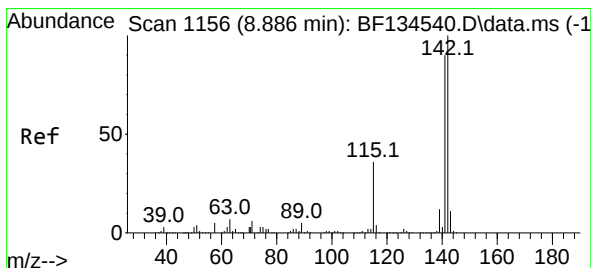
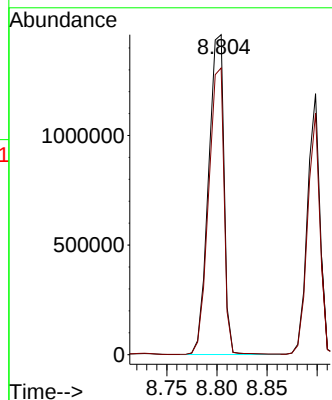
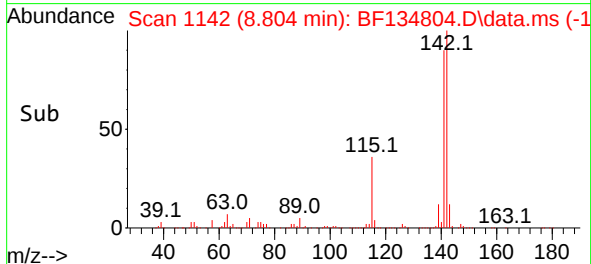
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



Tgt Ion:142 Resp: 157948
Ion Ratio Lower Upper
142 100
141 89.6 70.8 106.2

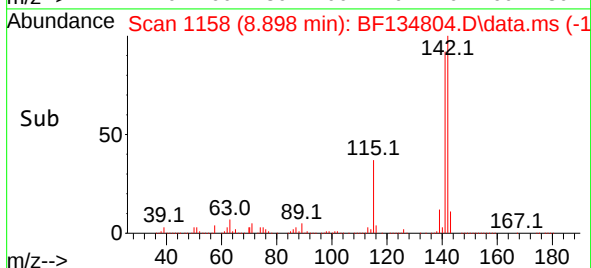
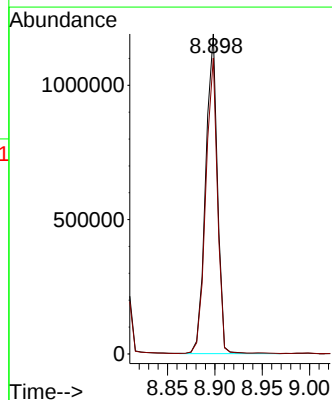
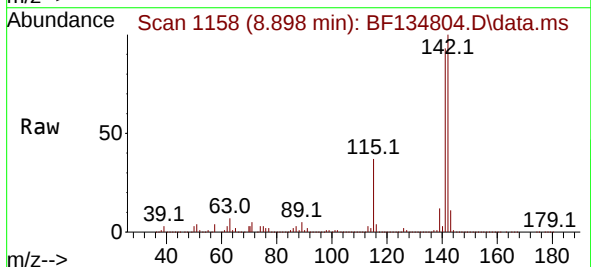
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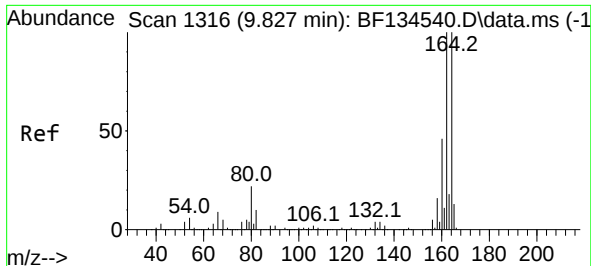
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#38
1-Methylnaphthalene
Concen: 63.261 ng
RT: 8.898 min Scan# 1158
Delta R.T. 0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

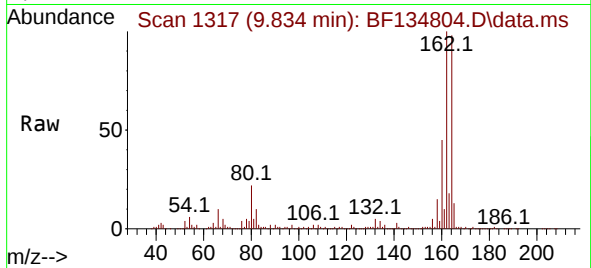
Tgt Ion:142 Resp: 1027784
Ion Ratio Lower Upper
142 100
141 92.5 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.834 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

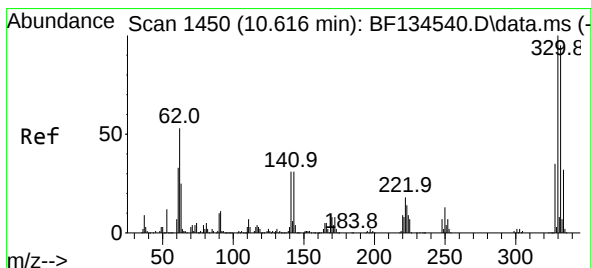
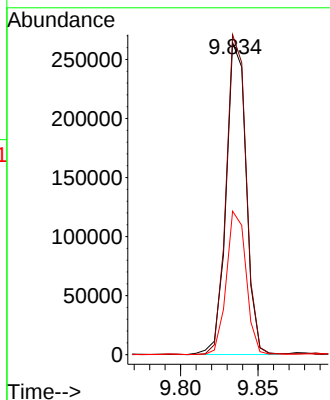
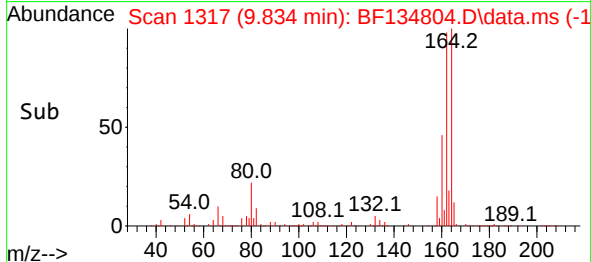
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



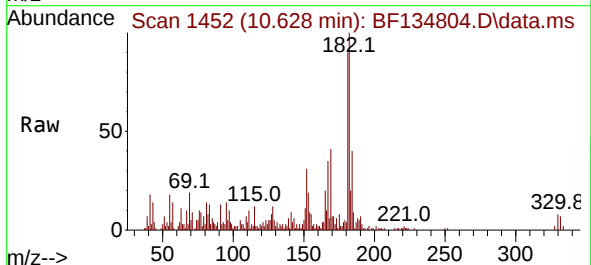
Tgt Ion:164 Resp: 23755
Ion Ratio Lower Upper
164 100
162 102.5 82.6 123.8
160 46.0 37.2 55.8

Manual Integrations
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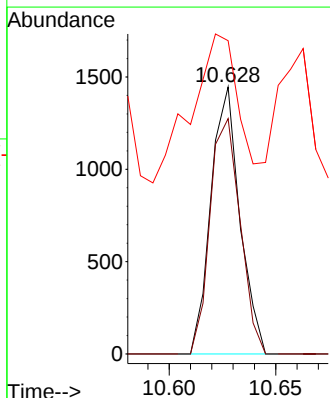
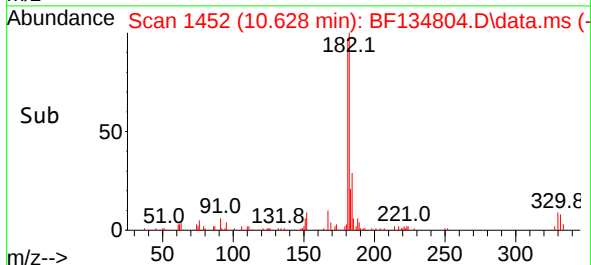
Reviewed By :Yogesh Patel 08/17/2023
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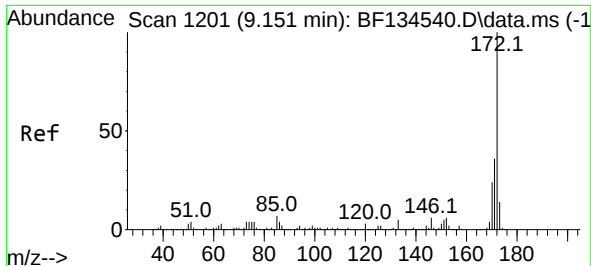


#42
2,4,6-Tribromophenol
Concen: 0.563 ng
RT: 10.628 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39



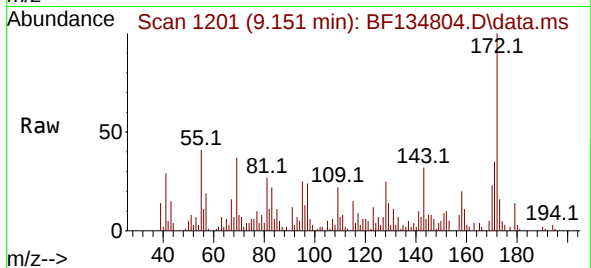
Tgt Ion:330 Resp: 1364
Ion Ratio Lower Upper
330 100
332 91.9 78.8 118.2
141 88.7 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 0.875 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

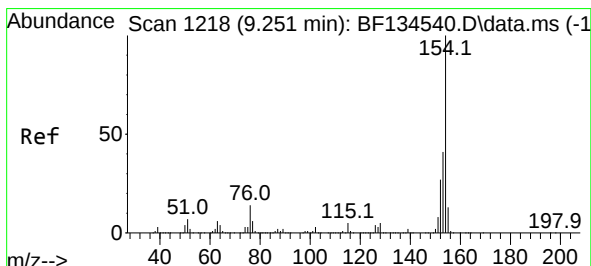
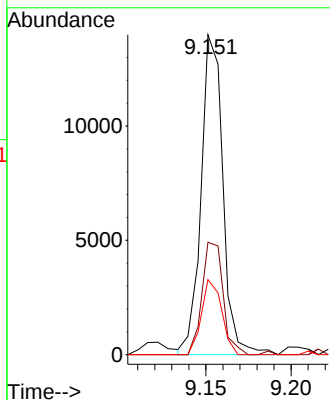
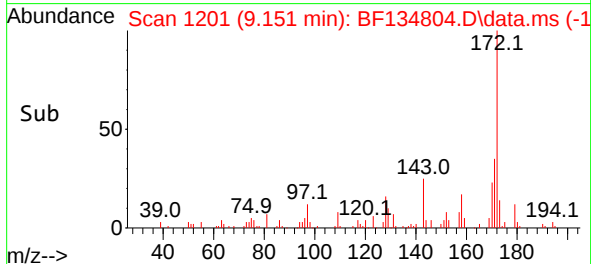
Instrument : BNA_F
ClientSampleId : NEVINS-SB06-Z36-37DL



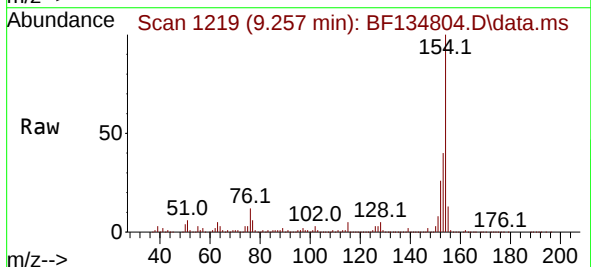
Tgt Ion:172 Resp: 12500
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 23.5 18.7 28.1

Manual Integrations
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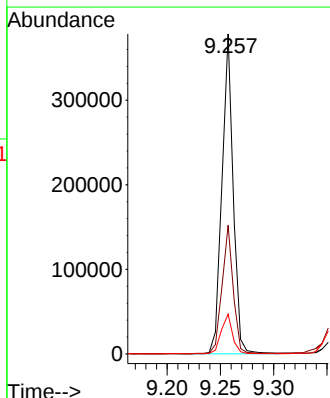
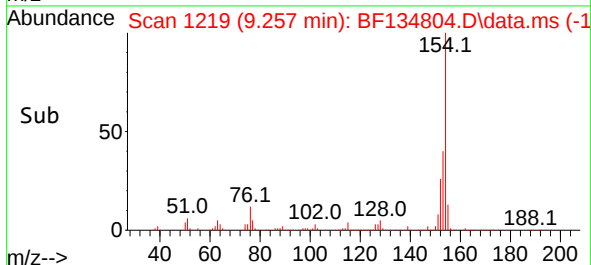
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023

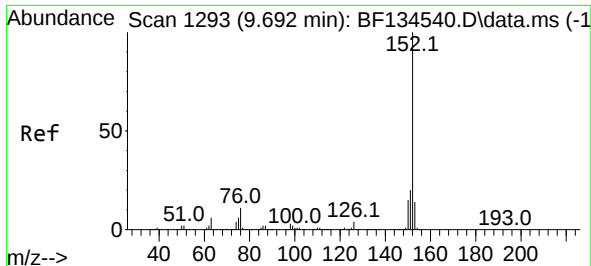


#46
1,1'-Biphenyl
Concen: 14.932 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39



Tgt Ion:154 Resp: 275838
Ion Ratio Lower Upper
154 100
153 40.2 20.8 60.8
76 12.5 0.0 30.2





#49

Acenaphthylene

Concen: 4.861 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL

Tgt Ion:152 Resp: 10575

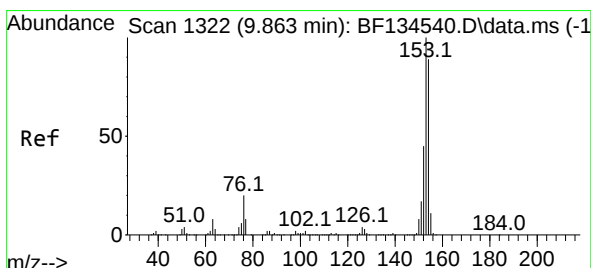
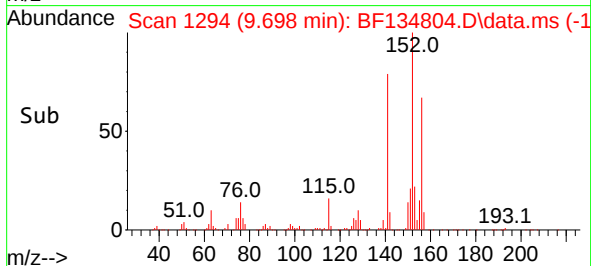
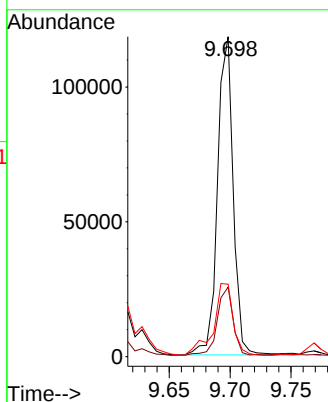
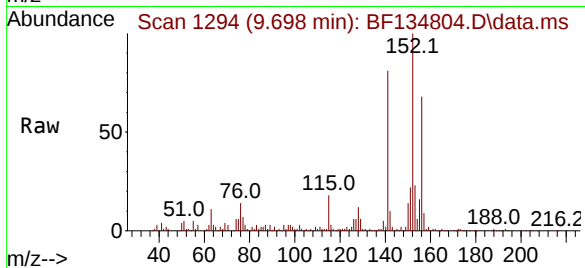
Ion	Ratio	Lower	Upper
152	100		
151	21.7	16.4	24.6
153	22.7	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#52

Acenaphthene

Concen: 48.146 ng

RT: 9.875 min Scan# 1324

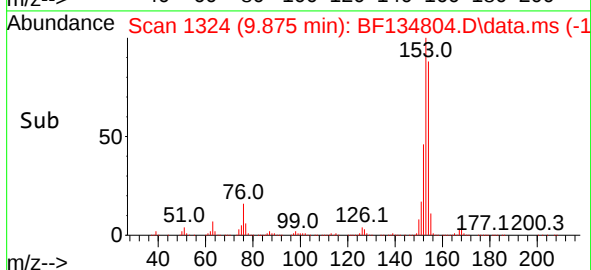
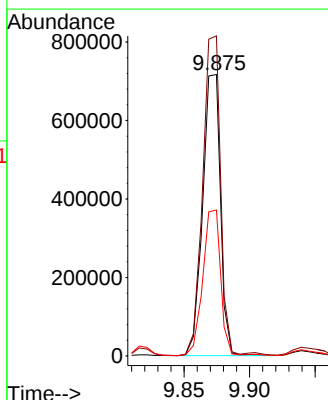
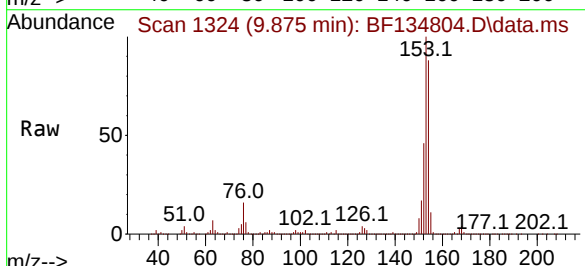
Delta R.T. 0.000 min

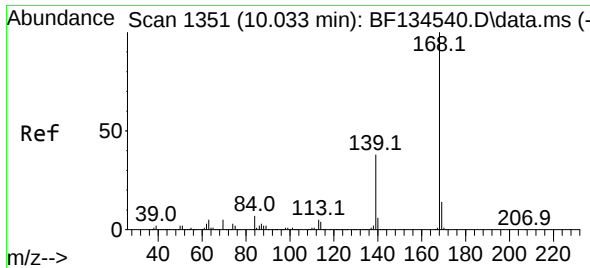
Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Tgt Ion:154 Resp: 678866

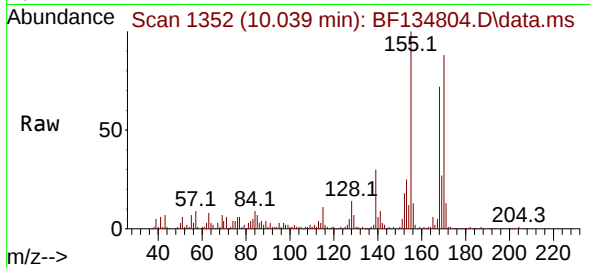
Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.0	135.0
152	51.9	42.4	63.6





#55
Dibenzenofuran
Concen: 2.589 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

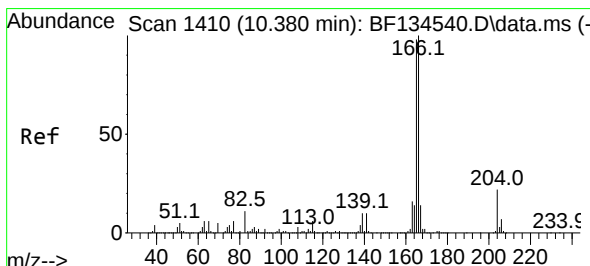
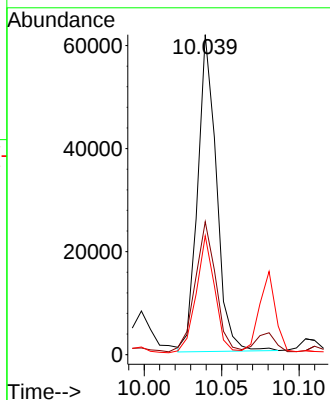
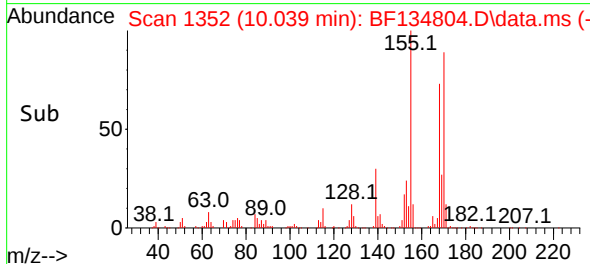
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



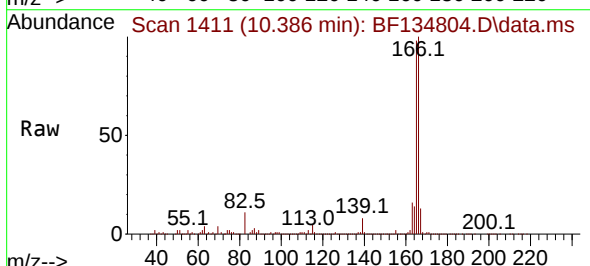
Tgt Ion:168 Resp: 5197
Ion Ratio Lower Upper
168 100
139 41.6 33.4 50.2
169 37.2 10.6 15.8

Manual Integrations
APPROVED

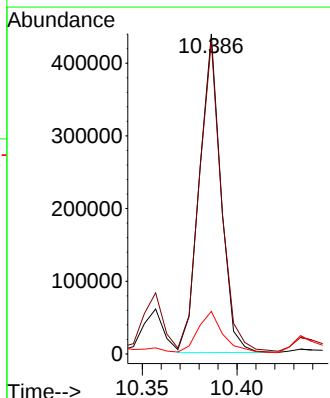
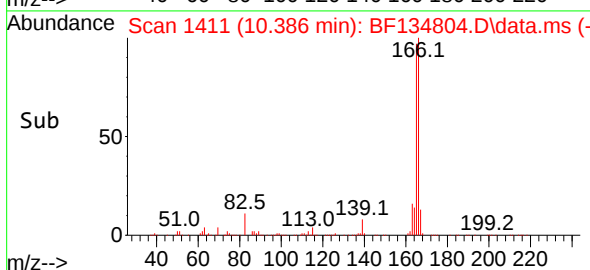
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023

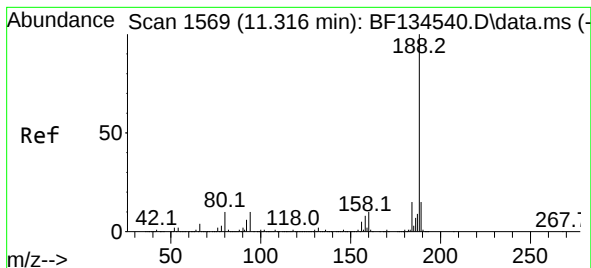


#58
Fluorene
Concen: 23.571 ng
RT: 10.386 min Scan# 1411
Delta R.T. 0.000 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39



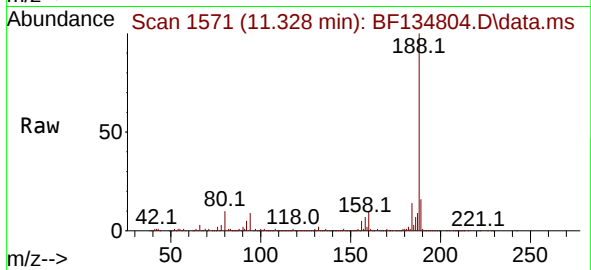
Tgt Ion:166 Resp: 344620
Ion Ratio Lower Upper
166 100
165 97.6 74.5 111.7
167 13.3 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

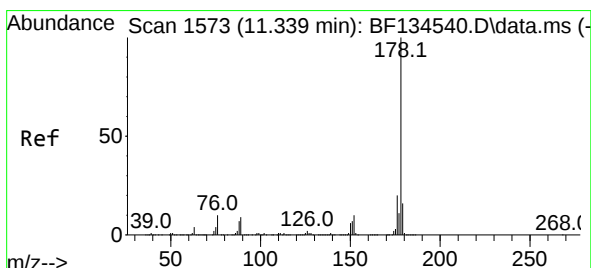
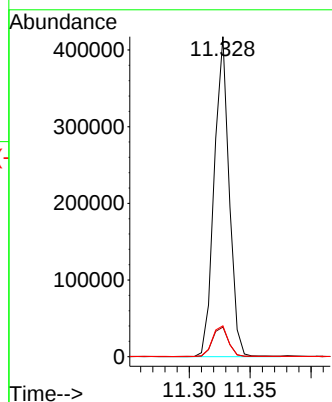
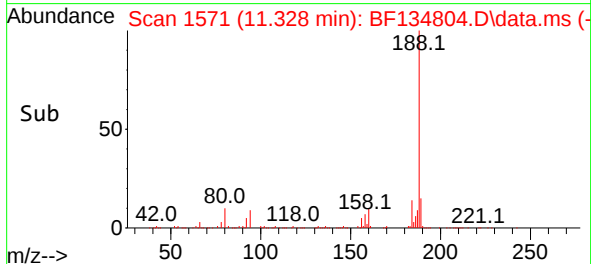
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z36-37DL



Tgt Ion:188 Resp: 35776
Ion Ratio Lower Upper
188 100
94 9.3 5.1 7.7
80 9.6 6.6 9.8

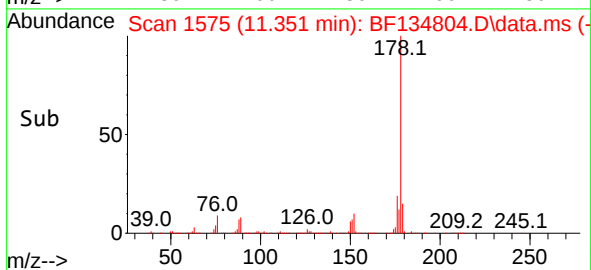
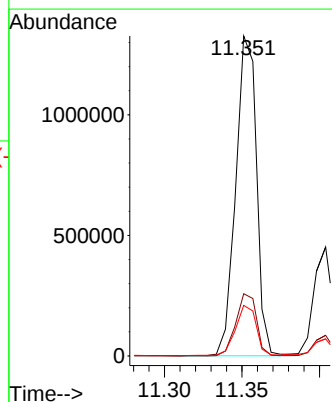
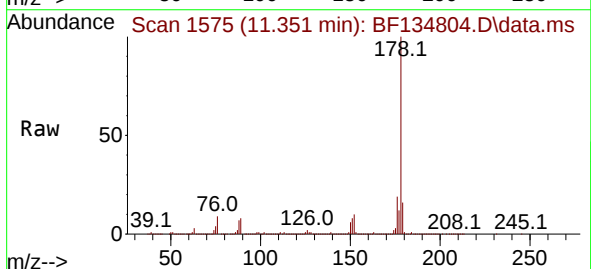
Manual Integrations
APPROVED

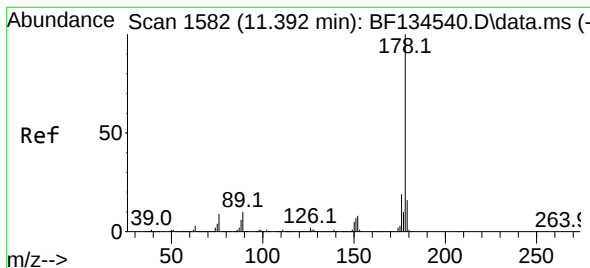
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#71
Phenanthrene
Concen: 64.909 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF134804.D
Acq: 16 Aug 2023 12:39

Tgt Ion:178 Resp: 1233459
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.6
179 15.8 12.7 19.1





#72

Anthracene

Concen: 18.784 ng

RT: 11.404 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134804.D

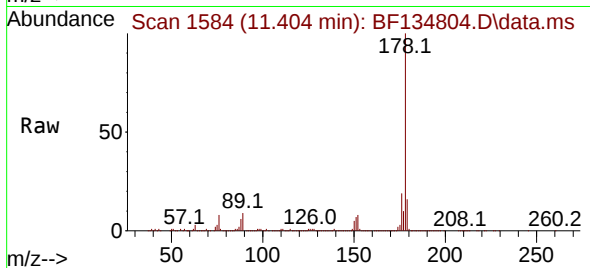
Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL



Tgt Ion:178 Resp: 364619

Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

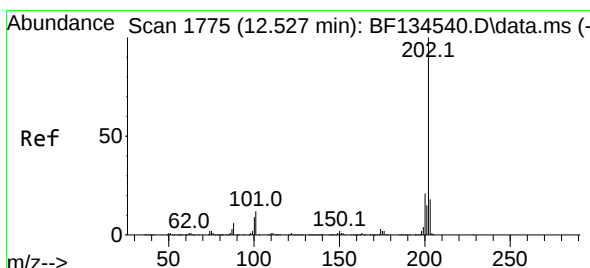
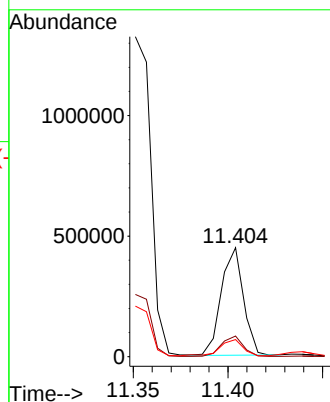
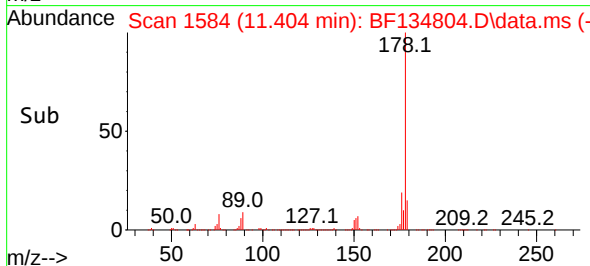
179 15.7 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#75

Fluoranthene

Concen: 24.160 ng

RT: 12.545 min Scan# 1778

Delta R.T. 0.006 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

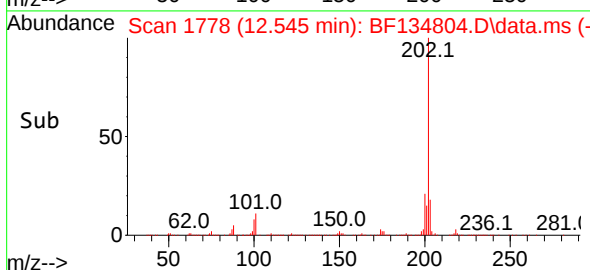
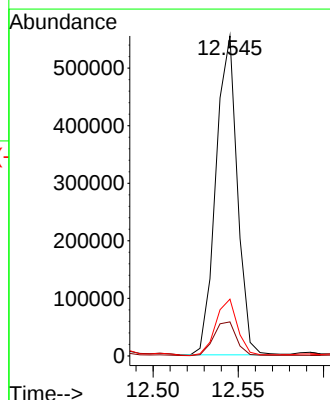
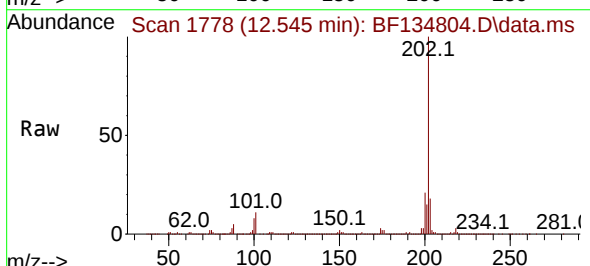
Tgt Ion:202 Resp: 484964

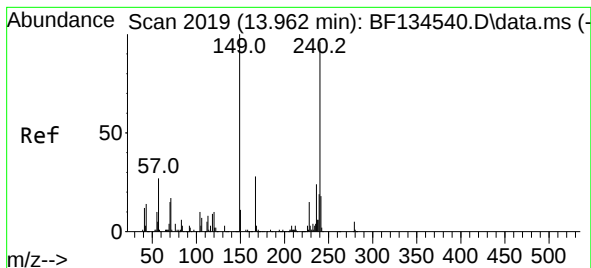
Ion Ratio Lower Upper

202 100

101 10.7 0.0 28.5

203 17.8 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL

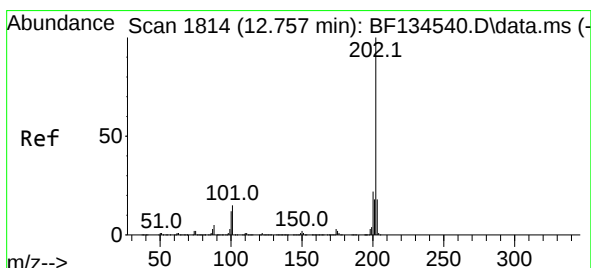
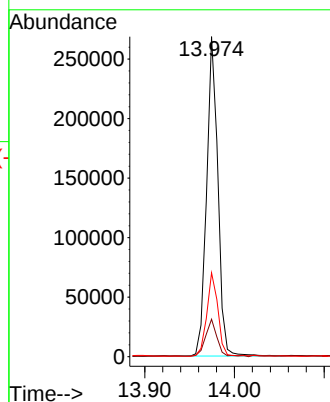
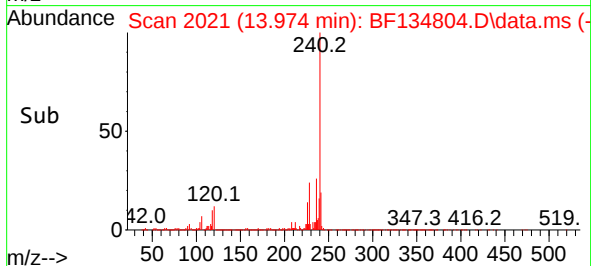
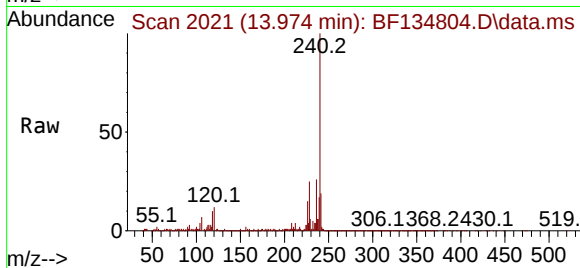
Tgt Ion:240 Resp: 233828
 Ion Ratio Lower Upper
 240 100
 120 11.7 6.6 10.0
 236 26.2 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#78

Pyrene

Concen: 37.091 ng

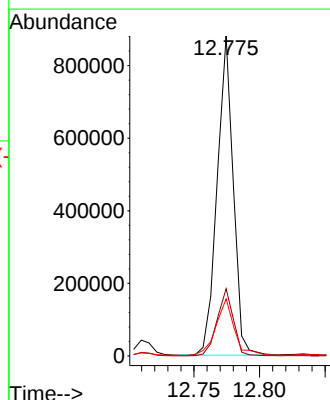
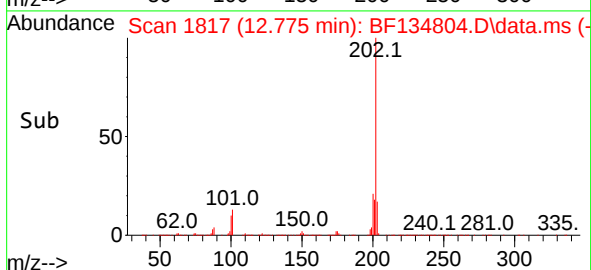
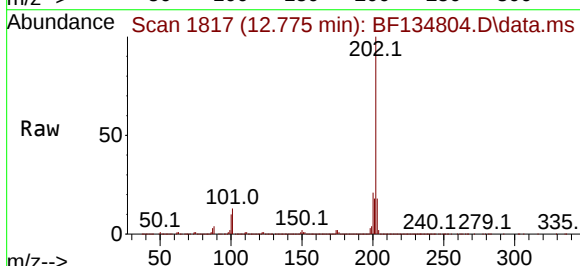
RT: 12.775 min Scan# 1817

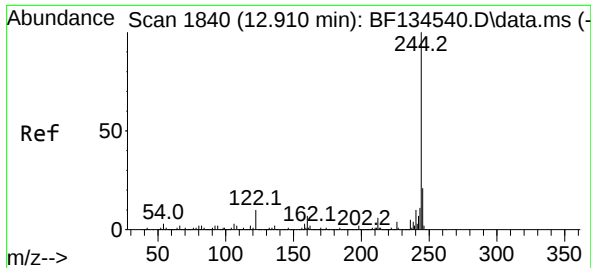
Delta R.T. 0.006 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

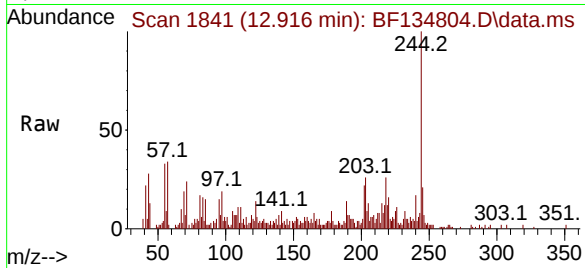
Tgt Ion:202 Resp: 750478
 Ion Ratio Lower Upper
 202 100
 200 21.0 15.8 23.8
 203 17.9 13.5 20.3





#79
 Terphenyl-d14
 Concen: 0.817 ng
 RT: 12.916 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: BF134804.D
 Acq: 16 Aug 2023 12:39

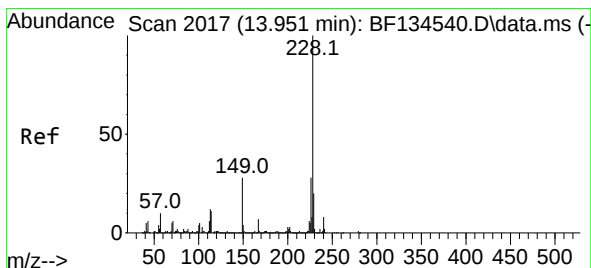
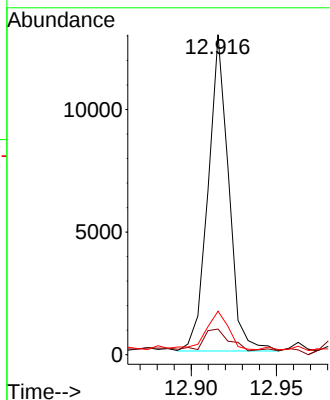
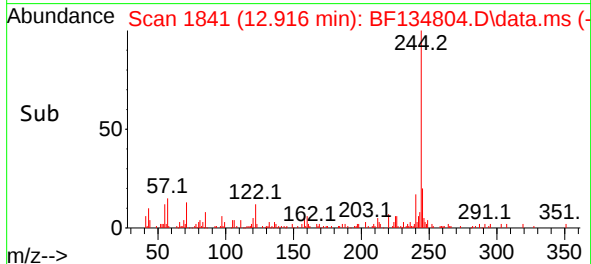
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB06-Z36-37DL



Tgt Ion:244 Resp: 10839
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.6 8.4
 122 13.6 8.0 12.0

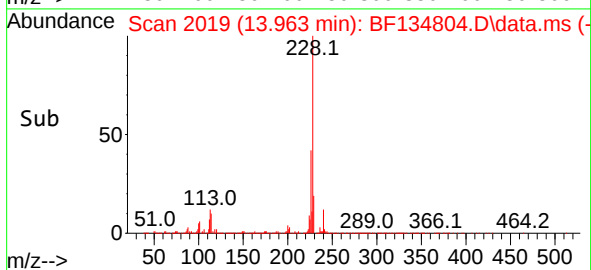
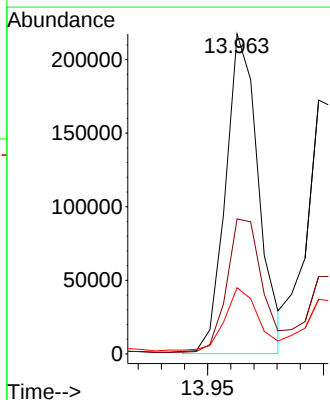
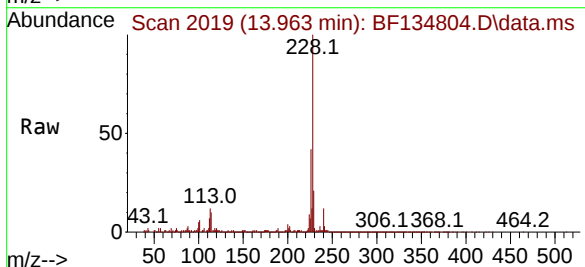
Manual Integrations
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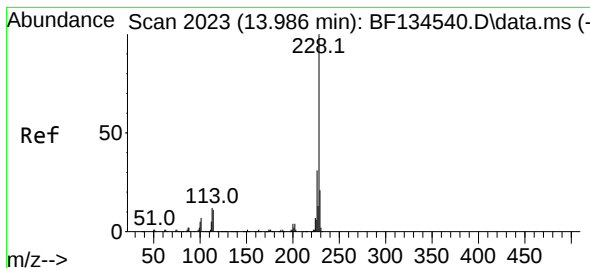
Reviewed By :Yogesh Patel 08/17/2023
 Supervised By :mohammad ahmed 08/17/2023



#81
 Benzo(a)anthracene
 Concen: 12.909 ng m
 RT: 13.963 min Scan# 2019
 Delta R.T. 0.000 min
 Lab File: BF134804.D
 Acq: 16 Aug 2023 12:39

Tgt Ion:228 Resp: 215836
 Ion Ratio Lower Upper
 228 100
 226 42.2 22.3 33.5#
 229 20.7 15.8 23.6





#83

Chrysene

Concen: 11.011 ng

RT: 13.998 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL

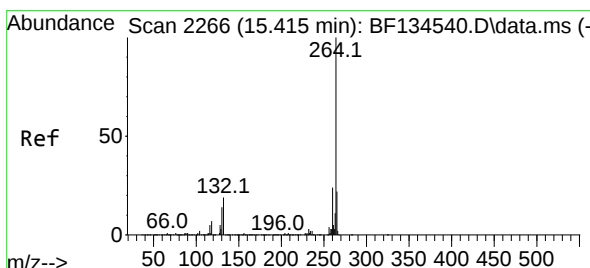
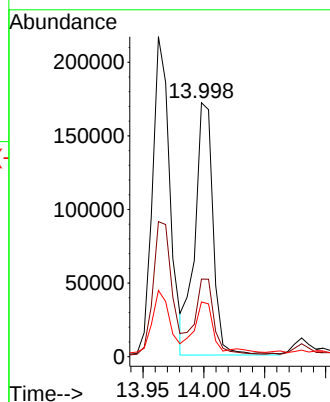
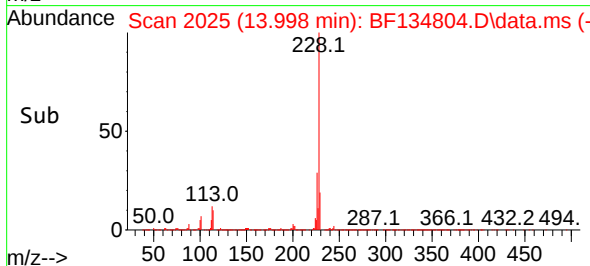
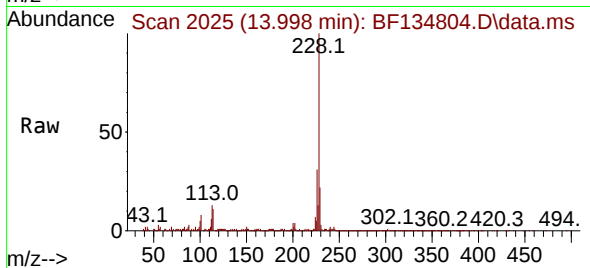
Tgt Ion:228 Resp: 179358
 Ion Ratio Lower Upper
 228 100
 226 30.6 24.5 36.7
 229 21.5 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#86

Perylene-d12

Concen: 20.000 ng

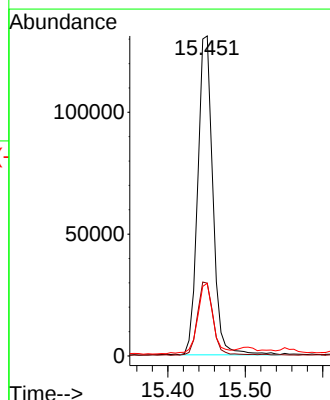
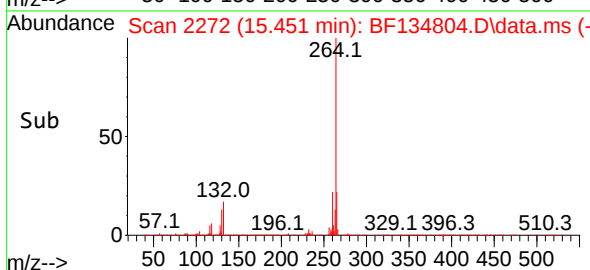
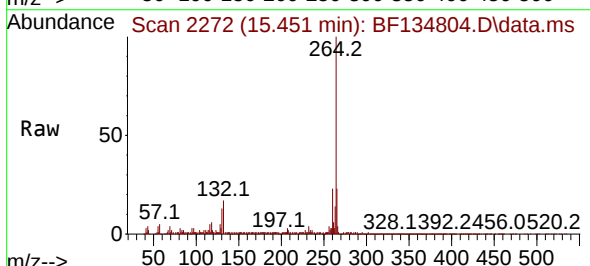
RT: 15.451 min Scan# 2272

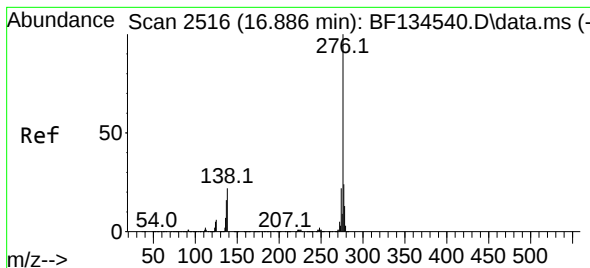
Delta R.T. 0.012 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Tgt Ion:264 Resp: 177060
 Ion Ratio Lower Upper
 264 100
 260 22.7 18.4 27.6
 265 22.7 15.8 23.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.012 ng

RT: 16.945 min Scan# 2198

Delta R.T. 0.018 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL

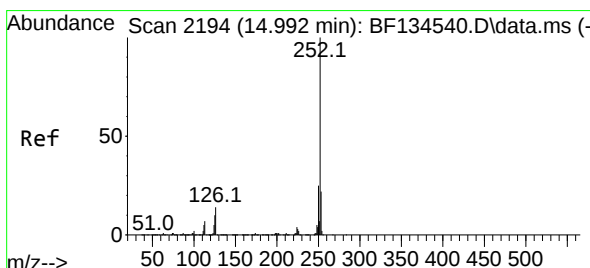
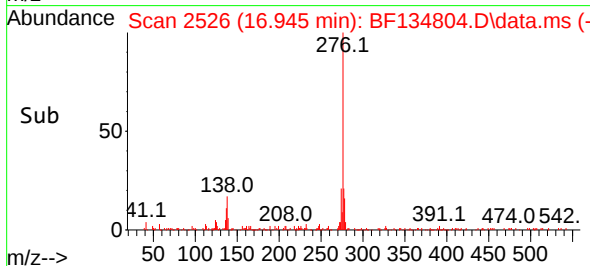
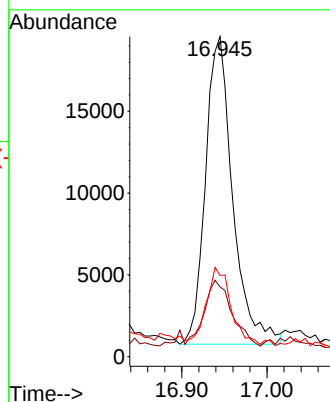
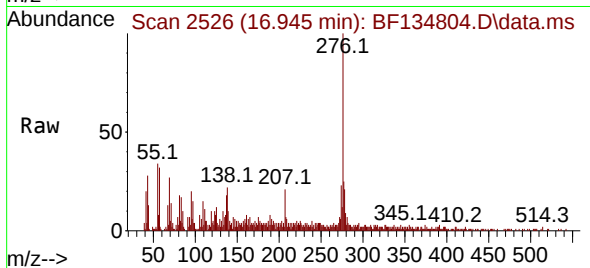
Tgt Ion:	276	Resp:	4178
Ion Ratio	Lower	Upper	
276	100		
138	21.8	14.2	21.4
277	22.3	19.9	29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#88

Benzo(b)fluoranthene

Concen: 9.924 ng m

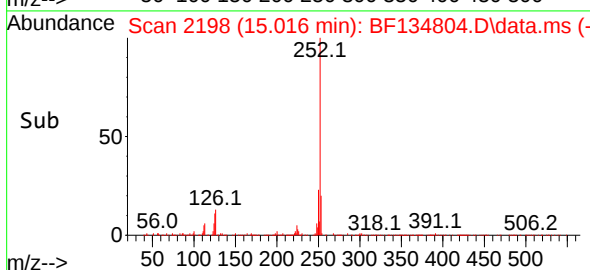
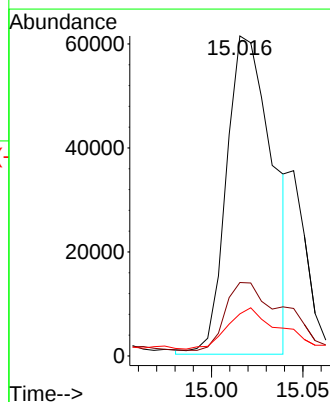
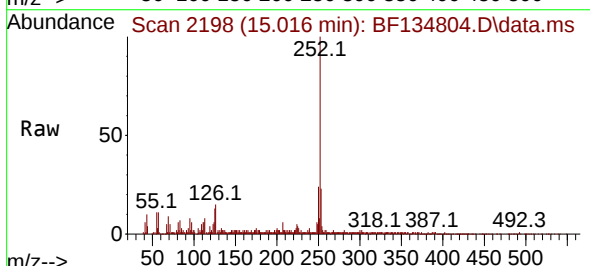
RT: 15.016 min Scan# 2198

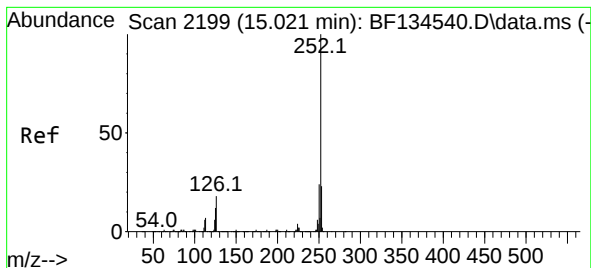
Delta R.T. 0.006 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Tgt Ion:	252	Resp:	107164
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.3	25.9
125	13.1	6.0	9.0





#89

Benzo(k)fluoranthene

Concen: 2.427 ng m

RT: 15.045 min Scan# 2199

Delta R.T. 0.006 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Instrument :

BNF

ClientSampleId :

NEVINS-SB06-Z36-37DL

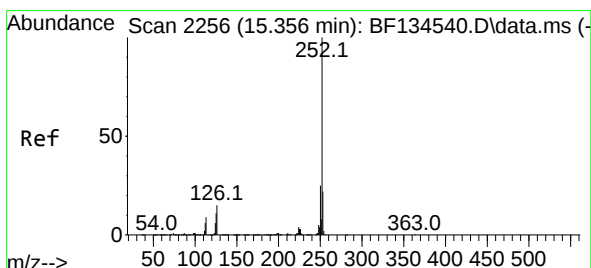
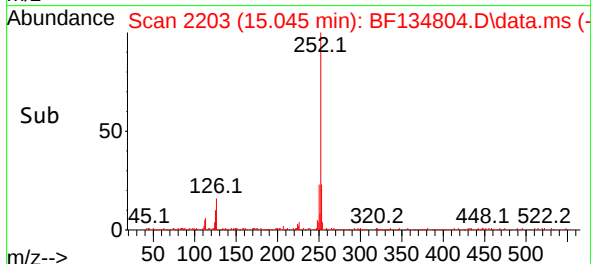
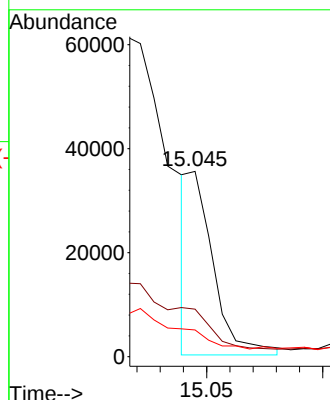
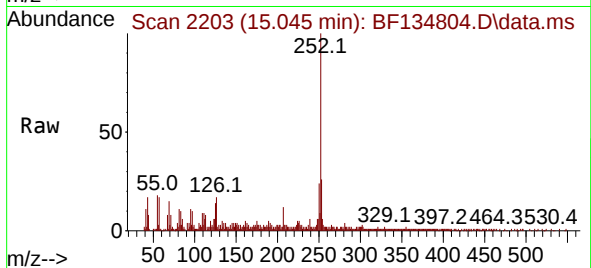
Tgt Ion:	252	Resp:	26100
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.9	26.9
125	14.4	6.3	9.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#90

Benzo(a)pyrene

Concen: 11.666 ng

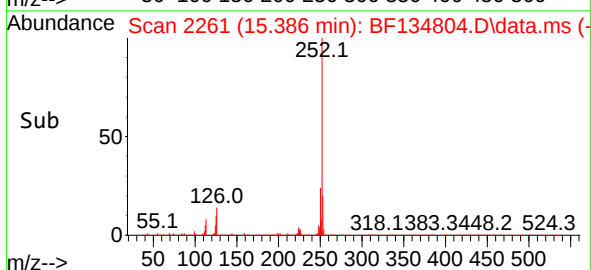
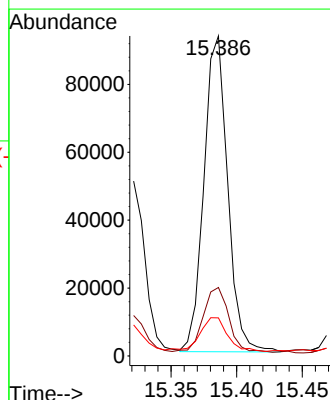
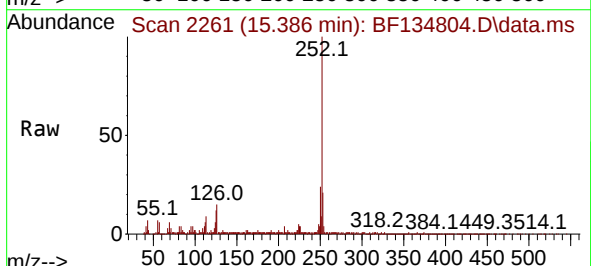
RT: 15.386 min Scan# 2261

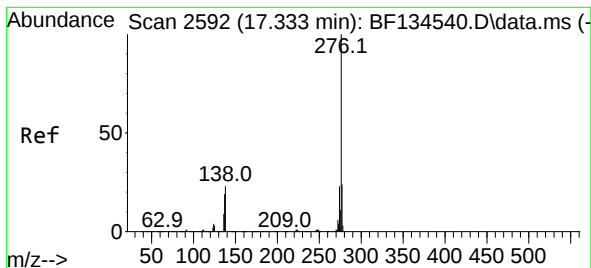
Delta R.T. 0.006 min

Lab File: BF134804.D

Acq: 16 Aug 2023 12:39

Tgt Ion:	252	Resp:	117457
Ion Ratio	Lower	Upper	
252	100		
253	21.4	17.0	25.4
125	11.9	6.2	9.4





#92

Benzo(g,h,i)perylene

Concen: 5.162 ng

RT: 17.392 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF134804.D

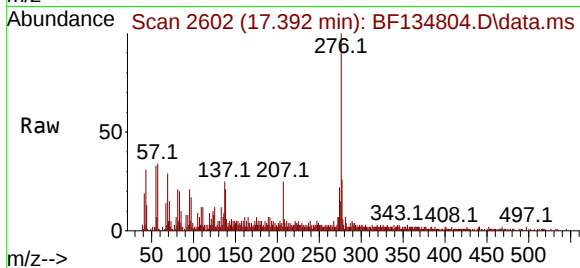
Acq: 16 Aug 2023 12:39

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z36-37DL



Tgt Ion: 276 Resp: 4431

Ion Ratio Lower Upper

276 100

277 26.1 19.0 28.6

138 21.1 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023

