

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081623\
 Data File : BF134803.D
 Acq On : 16 Aug 2023 12:06
 Operator : CG\JU
 Sample : 04014-04DL 100X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB06-Z84-85DL

Manual Integrations
 APPROVED

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

Quant Time: Aug 17 01:31:21 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	149313	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	567812	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	247226	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	360475	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	252598	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	191228	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	5256	0.535	ng	0.00
7) Phenol-d6	6.428	99	6994	0.557	ng	-0.01
23) Nitrobenzene-d5	7.357	82	5477	0.603	ng	-0.01
42) 2,4,6-Tribromophenol	10.628	330	1163	0.461	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	11134	0.749	ng	-0.01
79) Terphenyl-d14	12.916	244	10404	0.726	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	2637313	92.417	ng	98
37) 2-Methylnaphthalene	8.798	142	729825	38.583	ng	99
38) 1-Methylnaphthalene	8.892	142	755565	42.956	ng	98
46) 1,1'-Biphenyl	9.257	154	166032	8.636	ng	99
49) Acenaphthylene	9.698	152	87044	3.844	ng	# 88
52) Acenaphthene	9.869	154	500966	34.139	ng	98
58) Fluorene	10.386	166	273081	17.948	ng	93
71) Phenanthrene	11.351	178	1029719	53.780	ng	99
72) Anthracene	11.404	178	312088	15.957	ng	99
75) Fluoranthene	12.539	202	369823	18.285	ng	96
78) Pyrene	12.774	202	541479	24.773	ng	98
81) Benzo(a)anthracene	13.963	228	178305m	9.872	ng	
83) Chrysene	13.998	228	154121	8.758	ng	97
87) Indeno(1,2,3-cd)pyrene	16.939	276	23376	2.078	ng	# 88
88) Benzo(b)fluoranthene	15.015	252	72656m	6.230	ng	
90) Benzo(a)pyrene	15.386	252	74958	6.893	ng	# 93
92) Benzo(g,h,i)perylene	17.398	276	23538	2.539	ng	# 80

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

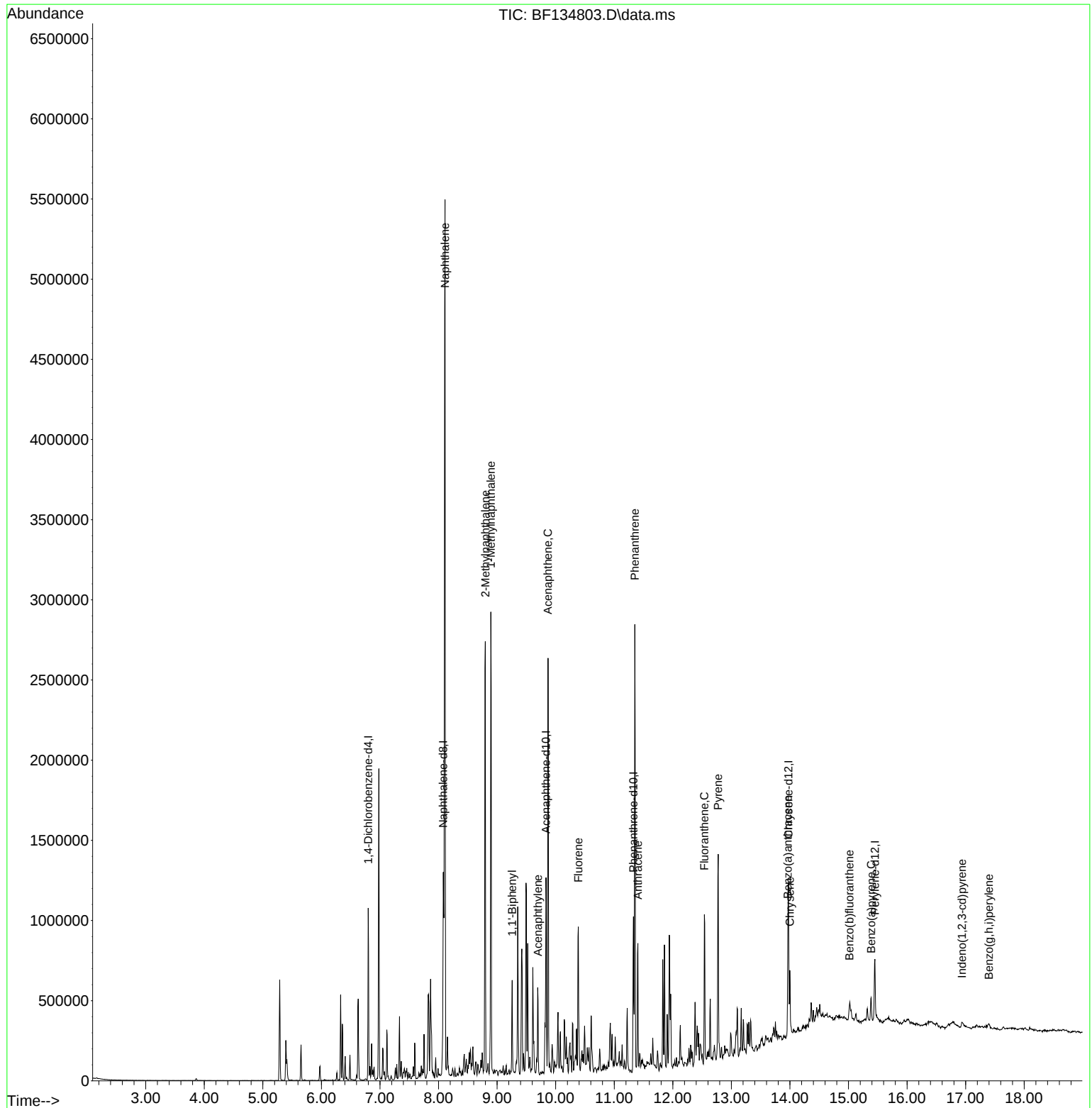
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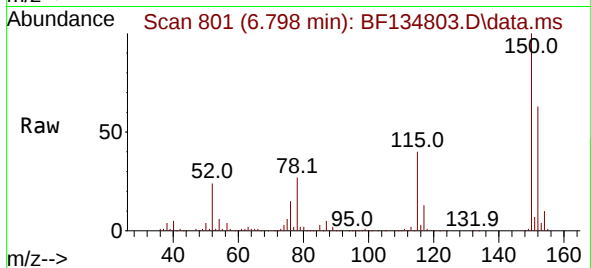
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

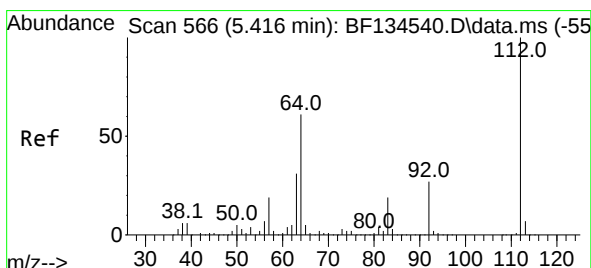
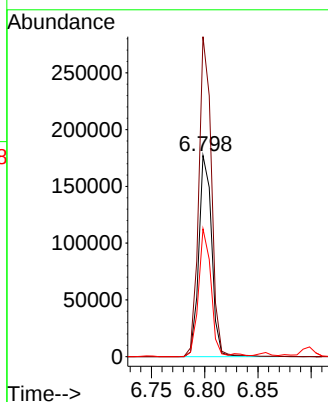
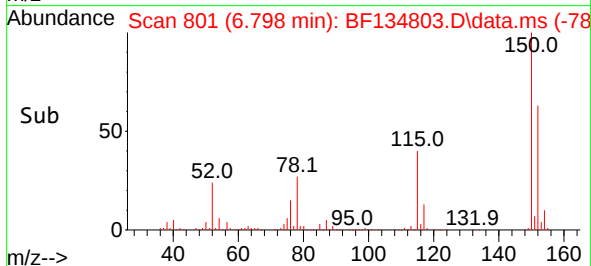
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z84-85DL



Tgt Ion:152 Resp: 14931
Ion Ratio Lower Upper
152 100
150 159.2 128.3 192.5
115 63.6 52.4 78.6

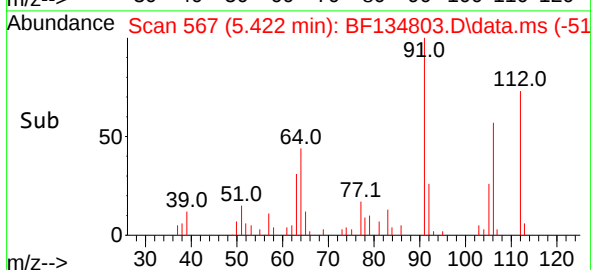
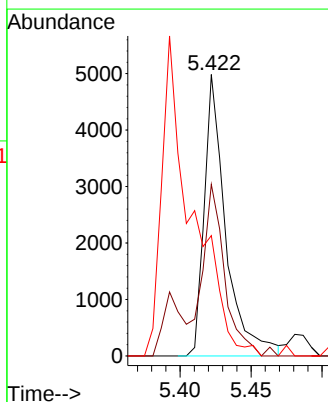
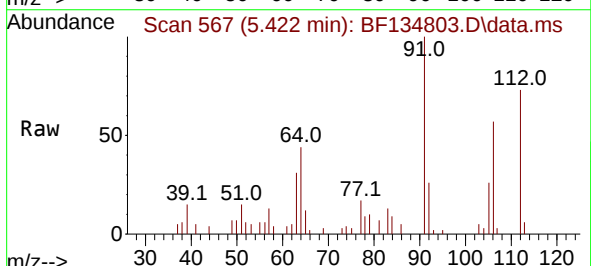
Manual Integrations
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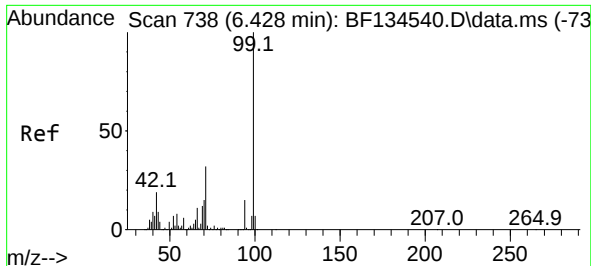
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#5
2-Fluorophenol
Concen: 0.535 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

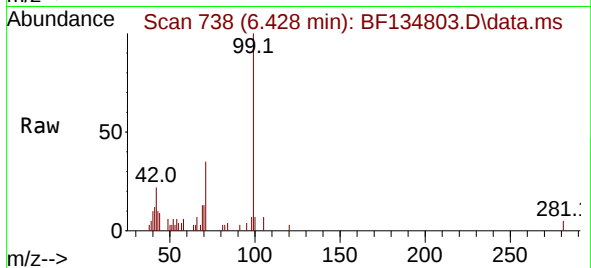
Tgt Ion:112 Resp: 5256
Ion Ratio Lower Upper
112 100
64 60.9 44.9 67.3
63 42.8 25.4 38.0#





#7
Phenol-d6
Concen: 0.557 ng
RT: 6.428 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

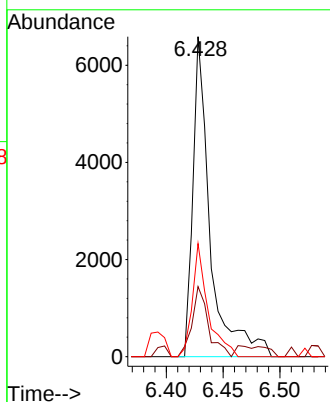
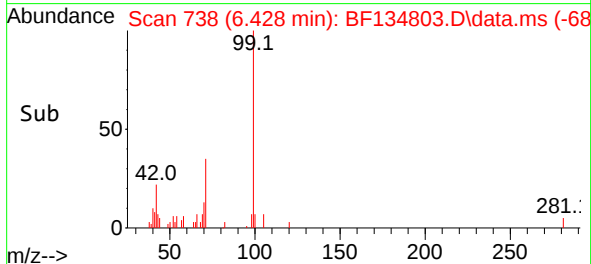
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z84-85DL



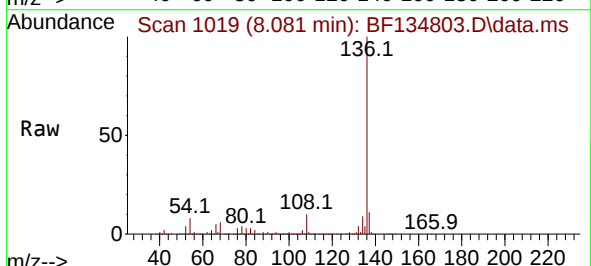
Tgt Ion: 99 Resp: 6994
Ion Ratio Lower Upper
99 100
42 21.9 18.7 28.1
71 35.4 36.4 54.6

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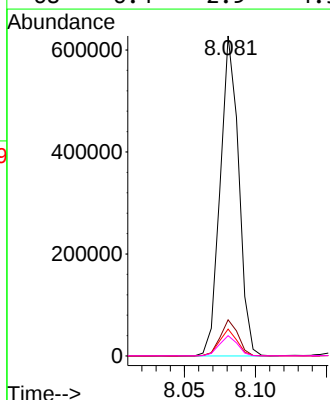
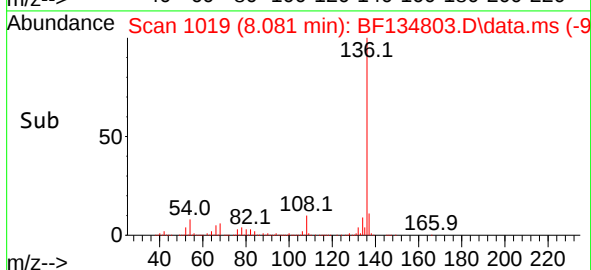
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023

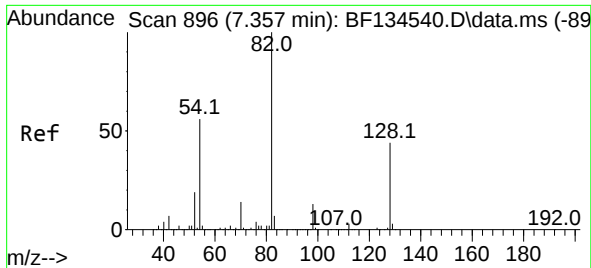


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06



Tgt Ion:136 Resp: 567812
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 8.4 5.2 7.8#
68 6.4 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 0.603 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF134803.D

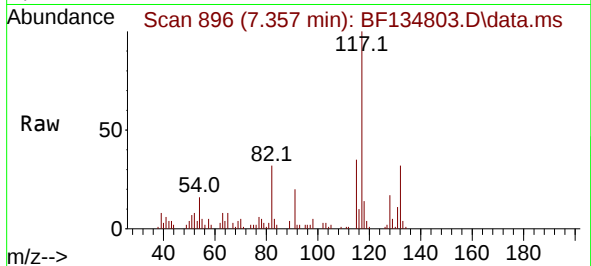
Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL



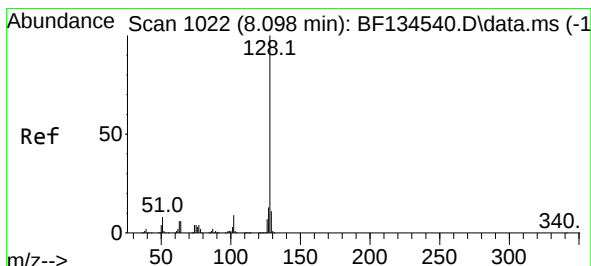
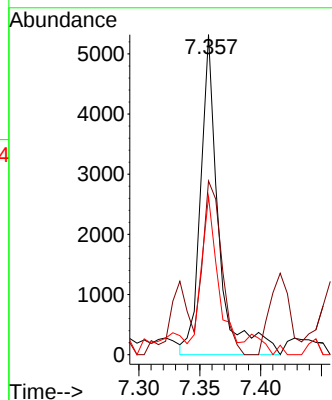
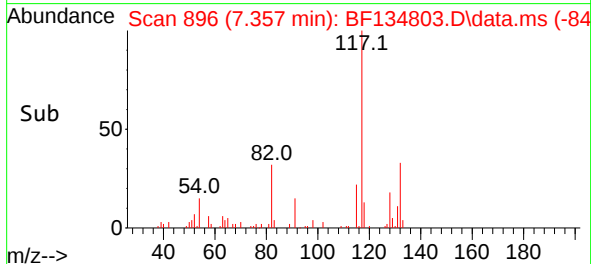
Tgt Ion:	82	Resp:	547
Ion Ratio	Lower	Upper	
82	100		
128	54.3	34.3	51.5
54	49.4	43.8	65.6

Manual Integrations

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Supervised By :mohammad ahmed 08/17/2023



#31

Naphthalene

Concen: 92.417 ng

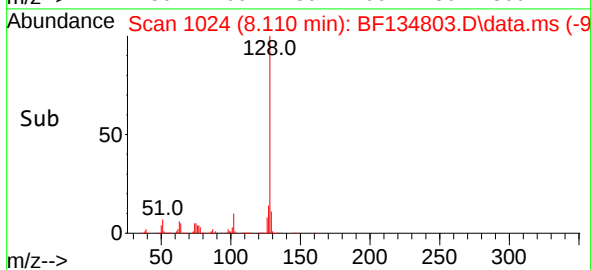
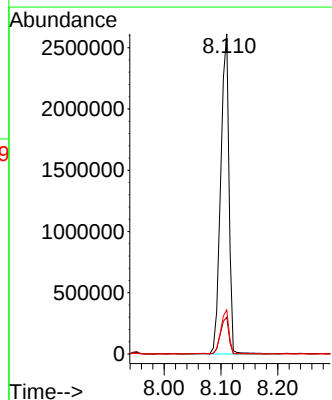
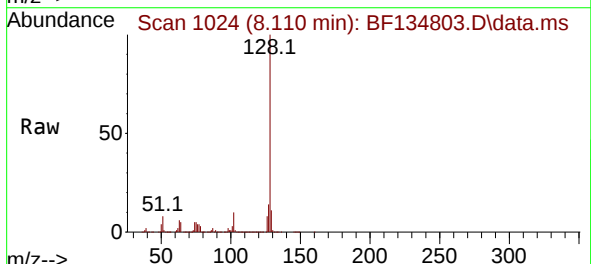
RT: 8.110 min Scan# 1024

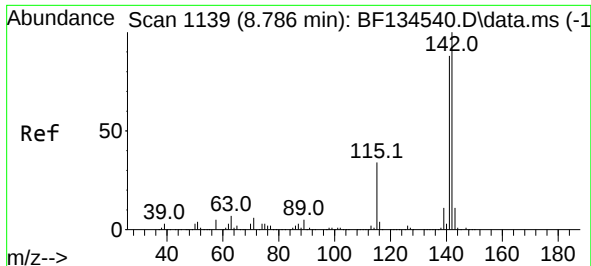
Delta R.T. 0.006 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Tgt Ion:	128	Resp:	2637313
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.4	12.6
127	13.8	10.7	16.1





#37

2-Methylnaphthalene

Concen: 38.583 ng

RT: 8.798 min Scan# 1139

Delta R.T. 0.006 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL

Tgt Ion:142 Resp: 729825

Ion Ratio Lower Upper

142 100

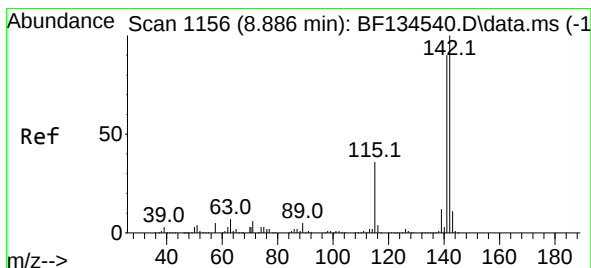
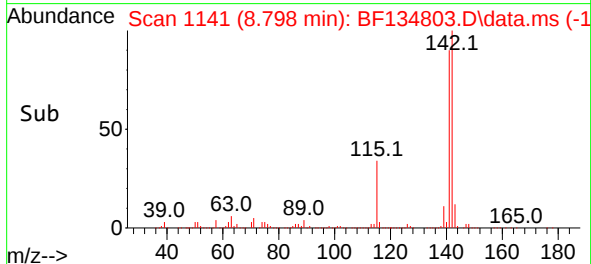
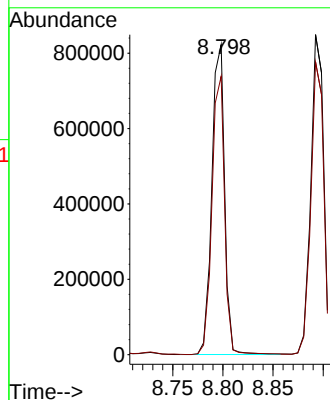
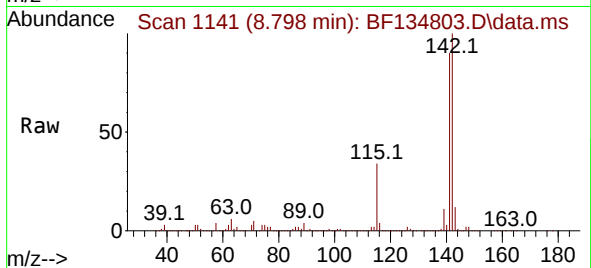
141 89.8 70.8 106.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#38

1-Methylnaphthalene

Concen: 42.956 ng

RT: 8.892 min Scan# 1157

Delta R.T. 0.000 min

Lab File: BF134803.D

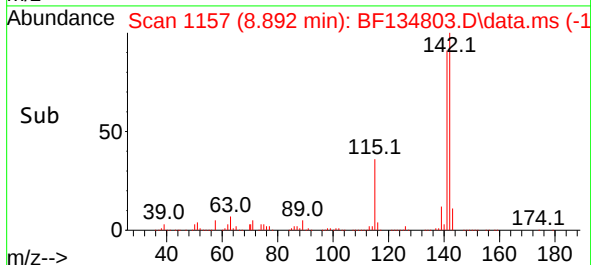
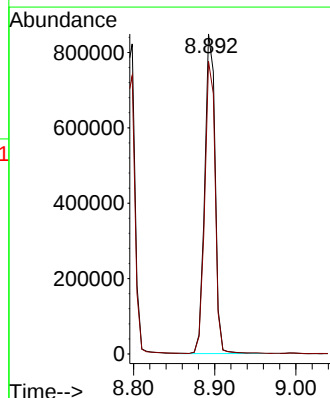
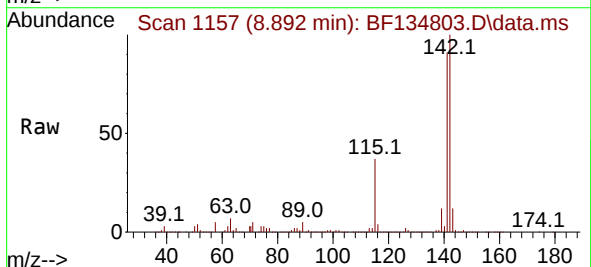
Acq: 16 Aug 2023 12:06

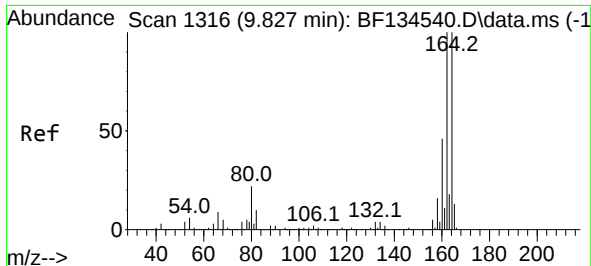
Tgt Ion:142 Resp: 755565

Ion Ratio Lower Upper

142 100

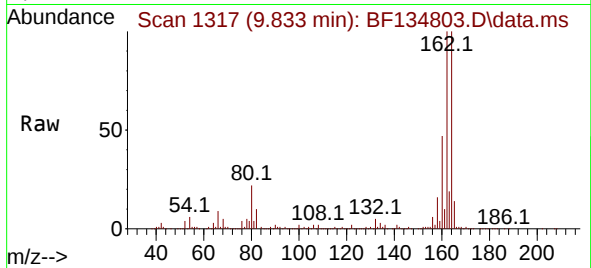
141 91.4 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

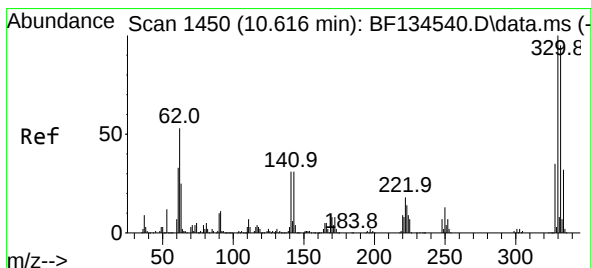
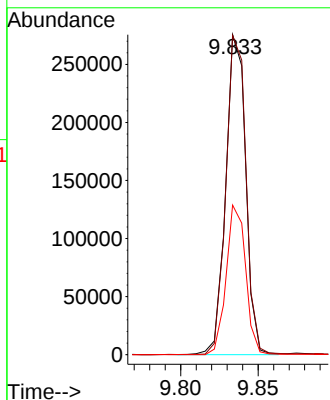
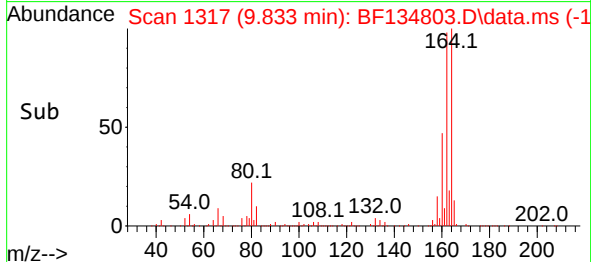
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NEVINS-SB06-Z84-85DL



Tgt Ion:164 Resp: 247220
Ion Ratio Lower Upper
164 100
162 99.8 82.6 123.8
160 46.7 37.2 55.8

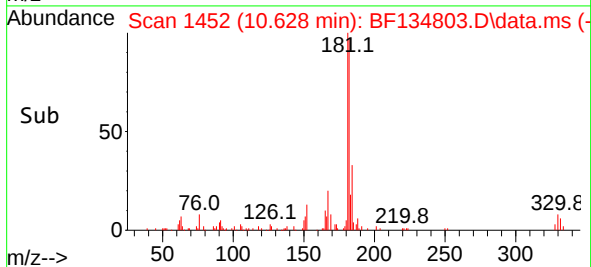
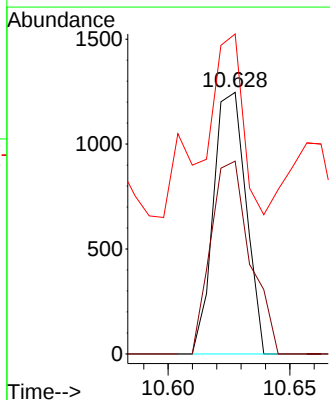
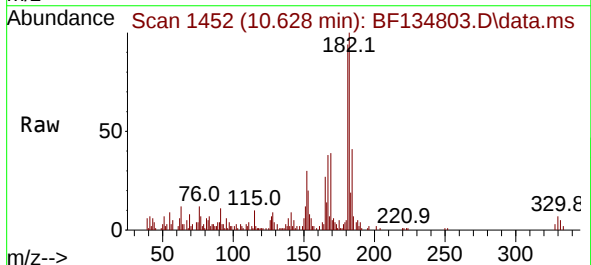
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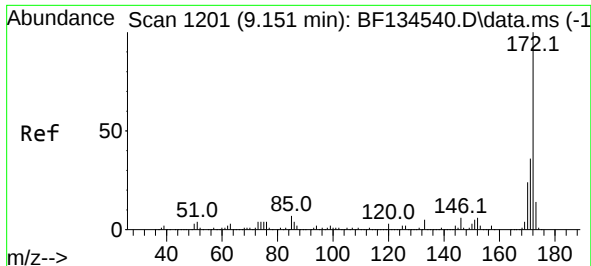
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#42
2,4,6-Tribromophenol
Concen: 0.461 ng
RT: 10.628 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

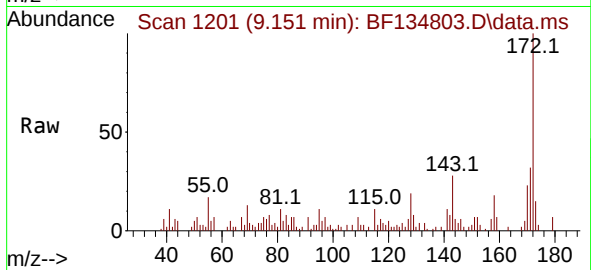
Tgt Ion:330 Resp: 1163
Ion Ratio Lower Upper
330 100
332 89.2 78.8 118.2
141 84.3 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 0.749 ng
RT: 9.151 min Scan# 11134
Delta R.T. -0.012 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

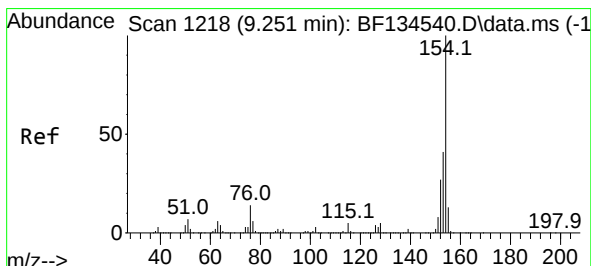
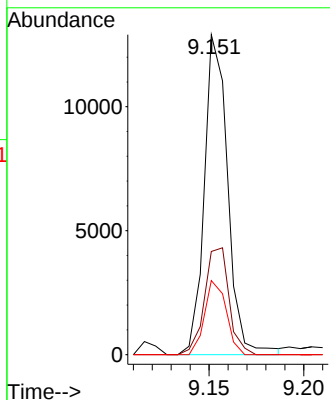
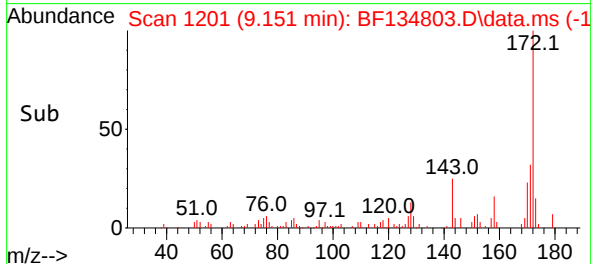
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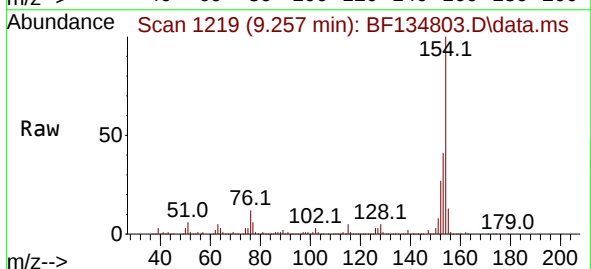
Tgt Ion:172 Resp: 11134
Ion Ratio Lower Upper
172 100
171 32.2 28.8 43.2
170 23.2 18.7 28.1

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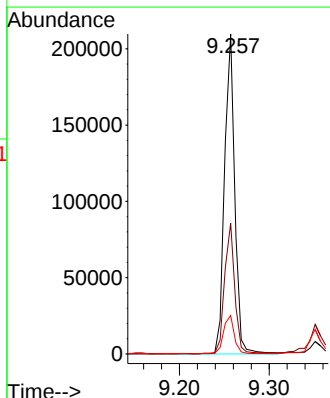
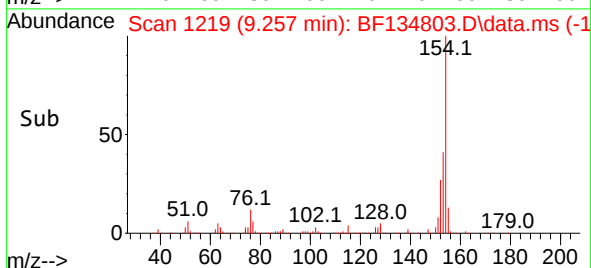
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023

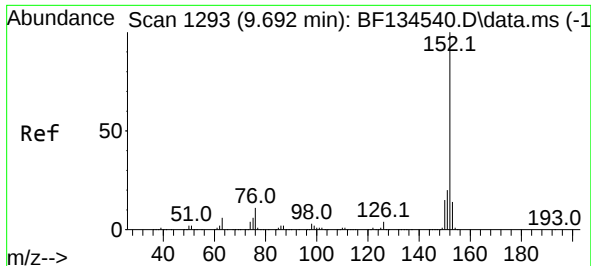


#46
1,1'-Biphenyl
Concen: 8.636 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06



Tgt Ion:154 Resp: 166032
Ion Ratio Lower Upper
154 100
153 40.9 20.8 60.8
76 12.0 0.0 30.2





#49

Acenaphthylene

Concen: 3.844 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF134803.D

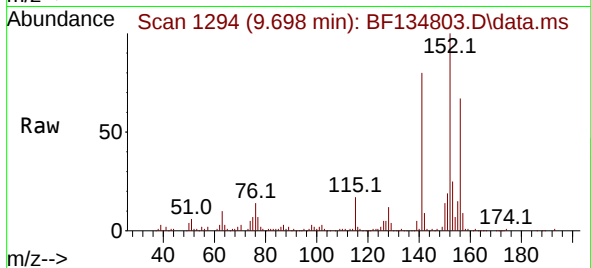
Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL



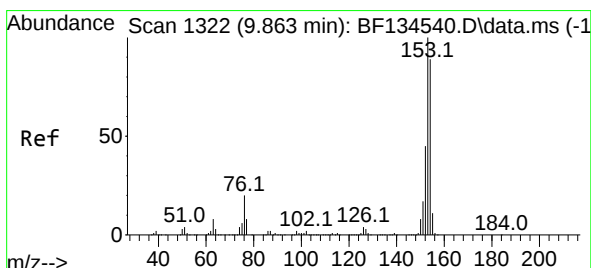
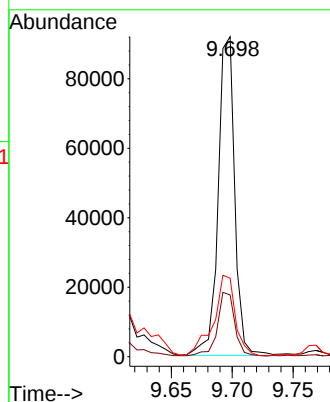
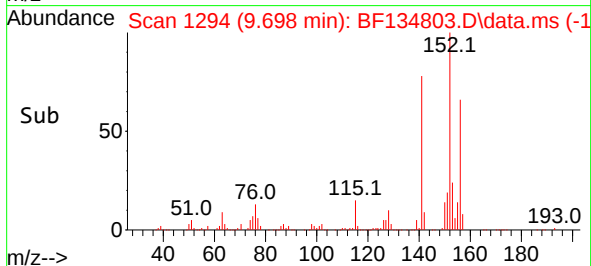
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.4	24.6
153	24.5	10.9	16.3

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#52

Acenaphthene

Concen: 34.139 ng

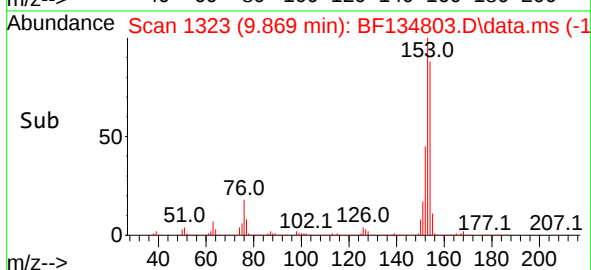
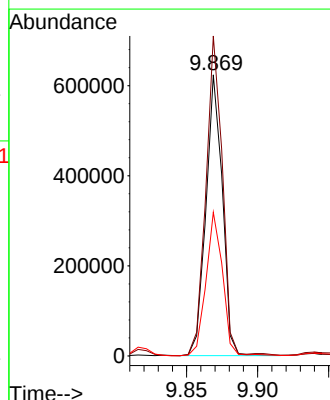
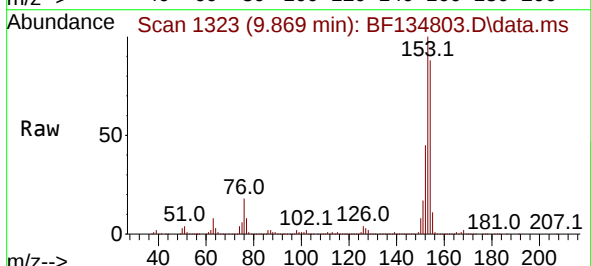
RT: 9.869 min Scan# 1323

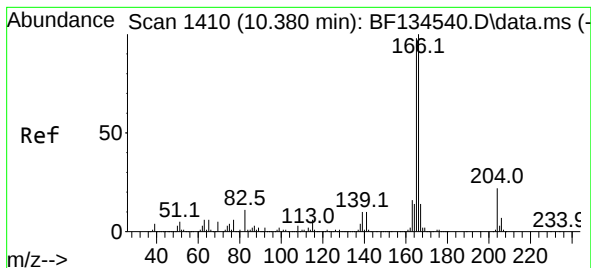
Delta R.T. -0.006 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

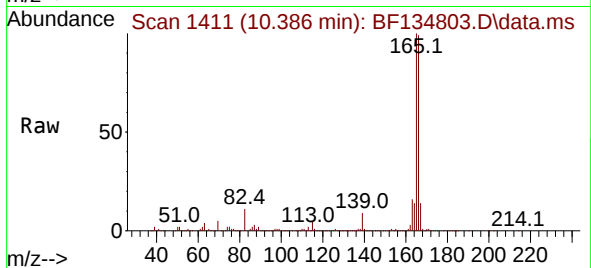
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.8	90.0	135.0
152	51.1	42.4	63.6





#58
Fluorene
Concen: 17.948 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

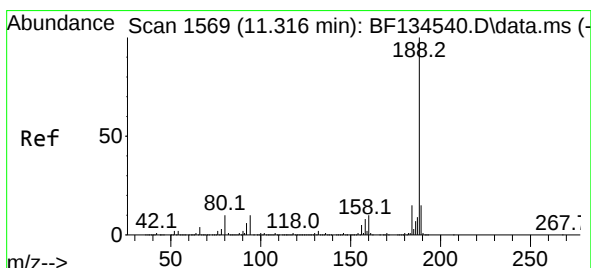
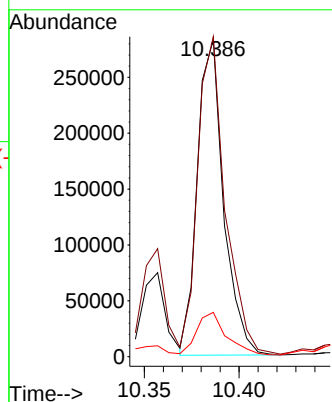
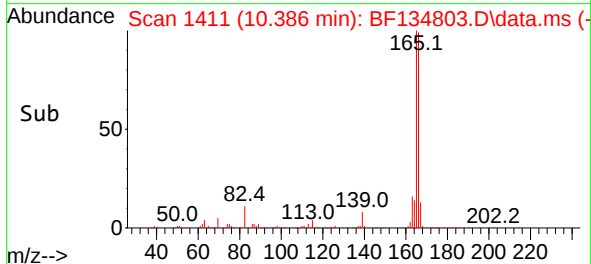
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z84-85DL



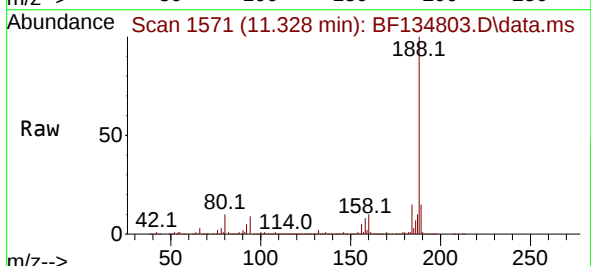
Tgt Ion:166 Resp: 27308
Ion Ratio Lower Upper
166 100
165 100.9 74.5 111.7
167 14.0 10.6 16.0

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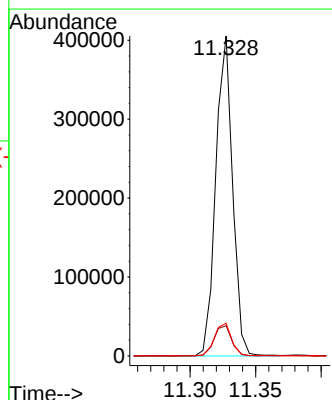
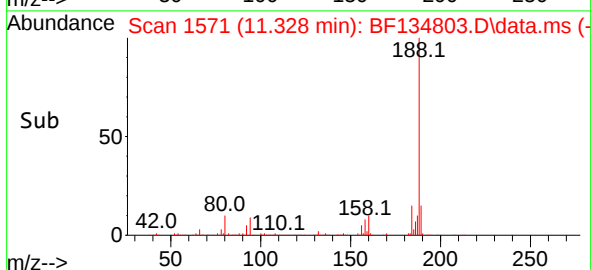
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023

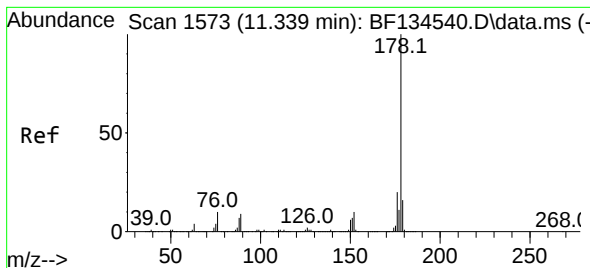


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06



Tgt Ion:188 Resp: 360475
Ion Ratio Lower Upper
188 100
94 9.5 5.1 7.7#
80 10.2 6.6 9.8#





#71

Phenanthrene

Concen: 53.780 ng

RT: 11.351 min Scan# 1575

Delta R.T. 0.000 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL

Tgt Ion:178 Resp: 1029719

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.6

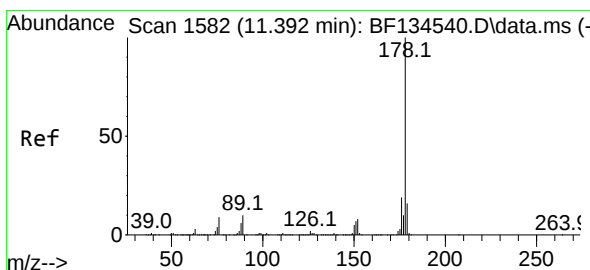
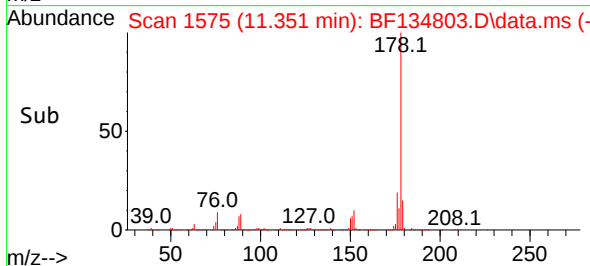
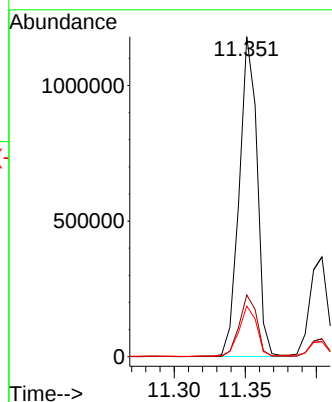
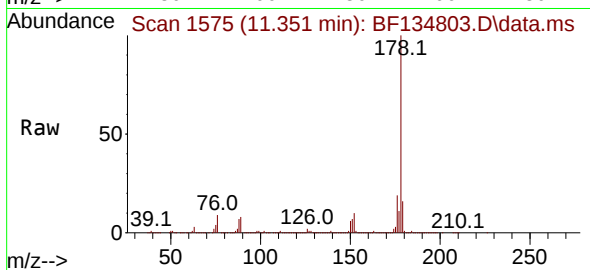
179 15.8 12.7 19.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#72

Anthracene

Concen: 15.957 ng

RT: 11.404 min Scan# 1584

Delta R.T. 0.000 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

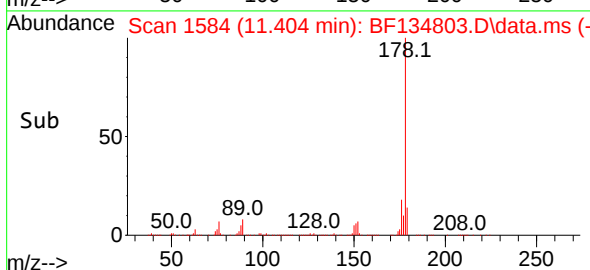
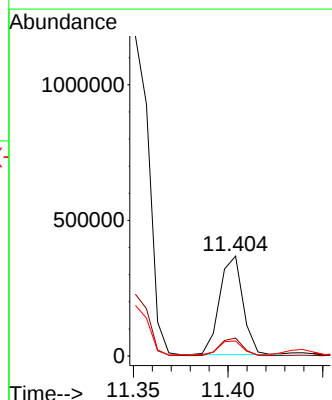
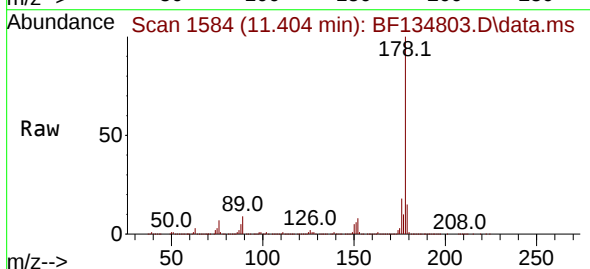
Tgt Ion:178 Resp: 312088

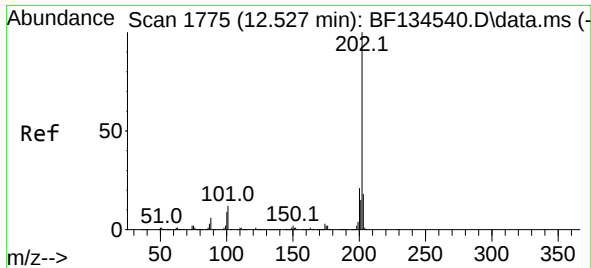
Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

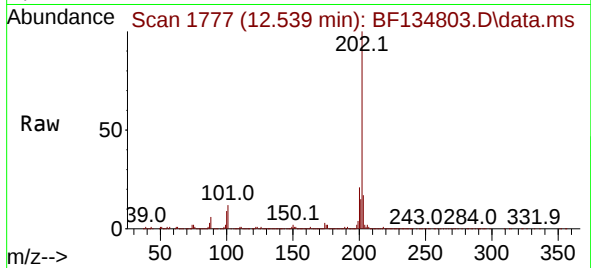
179 15.1 12.3 18.5





#75
Fluoranthene
Concen: 18.285 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

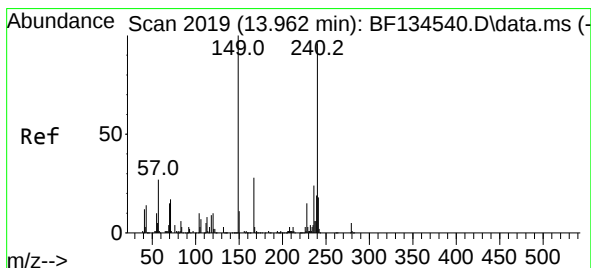
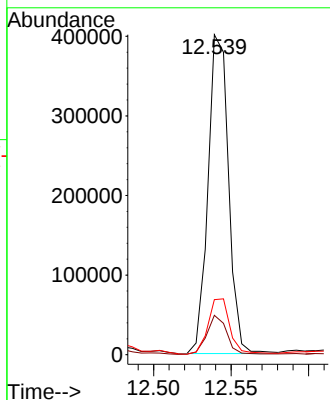
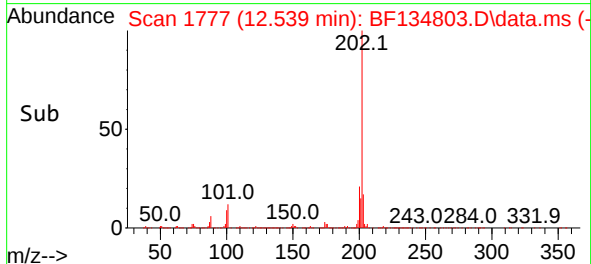
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z84-85DL



Tgt Ion:202 Resp: 36982
Ion Ratio Lower Upper
202 100
101 12.3 0.0 28.5
203 17.2 0.0 37.5

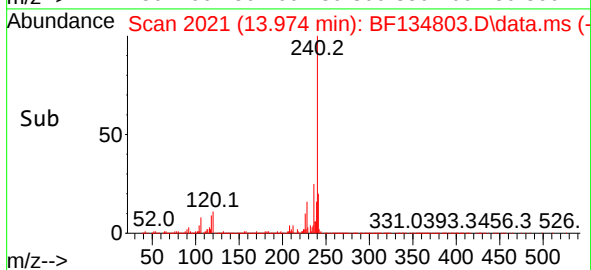
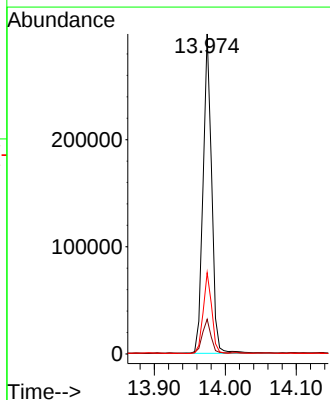
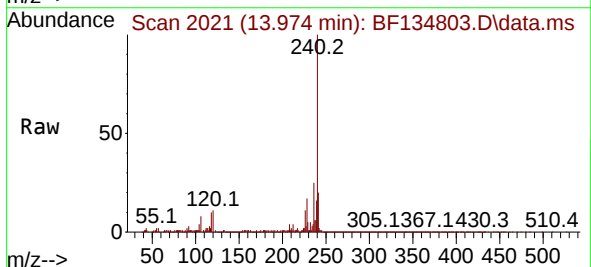
Manual Integrations
APPROVED

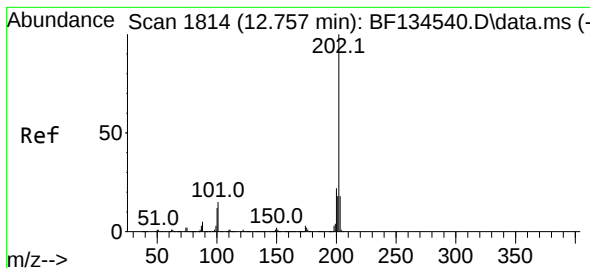
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

Tgt Ion:240 Resp: 252598
Ion Ratio Lower Upper
240 100
120 10.9 6.6 10.0#
236 25.4 20.2 30.2





#78

Pyrene

Concen: 24.773 ng

RT: 12.774 min Scan# 1814

Delta R.T. 0.006 min

Lab File: BF134803.D

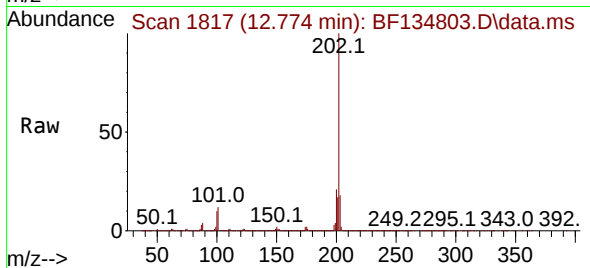
Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL



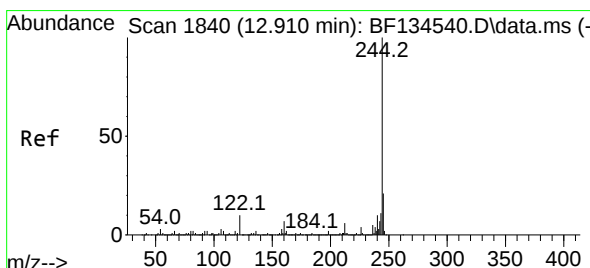
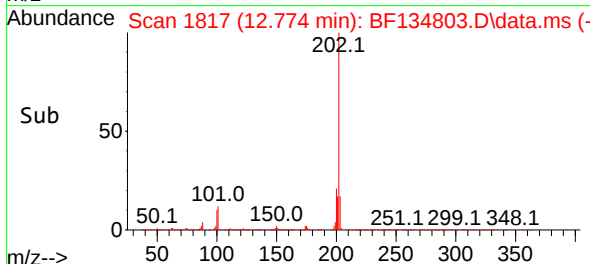
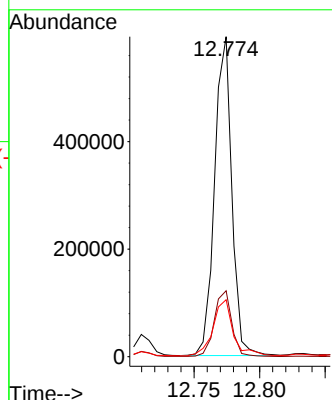
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	15.8	23.8
203	17.8	13.5	20.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#79

Terphenyl-d14

Concen: 0.726 ng

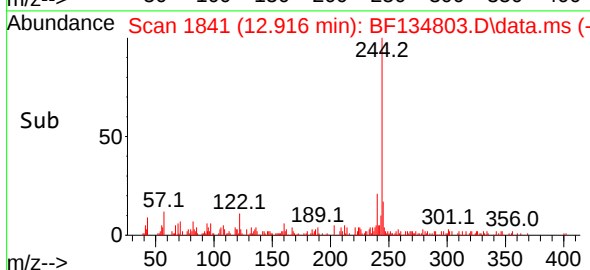
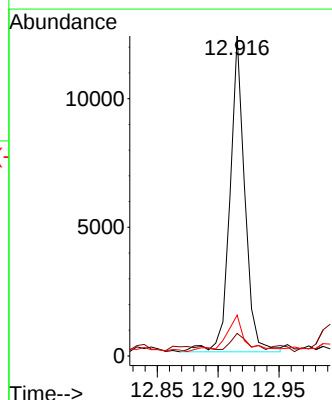
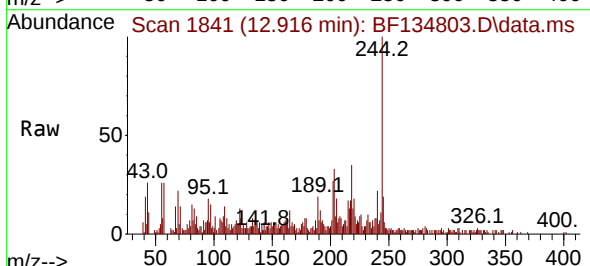
RT: 12.916 min Scan# 1841

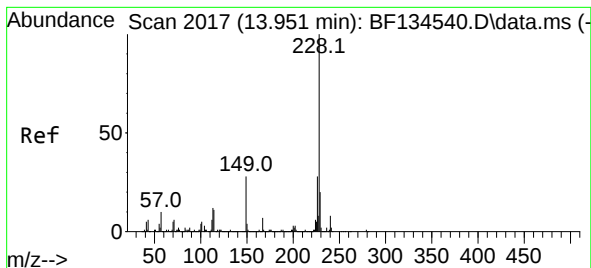
Delta R.T. -0.006 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	12.8	8.0	12.0





#81

Benzo(a)anthracene

Concen: 9.872 ng m

RT: 13.963 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Instrument :

BNF

ClientSampleId :

NEVINS-SB06-Z84-85DL

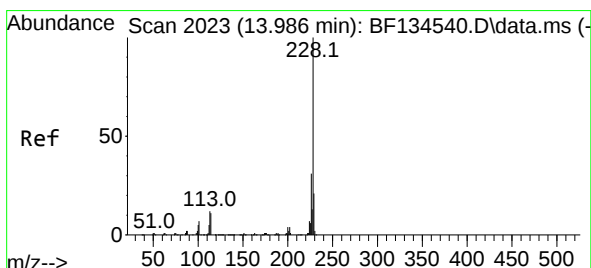
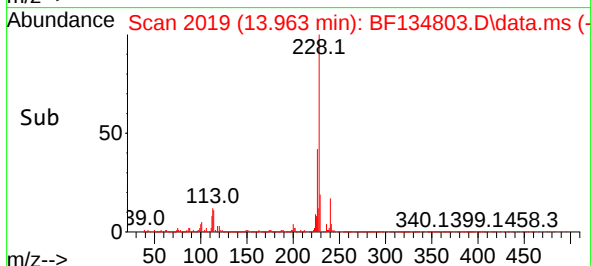
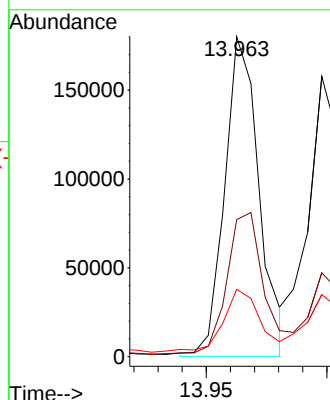
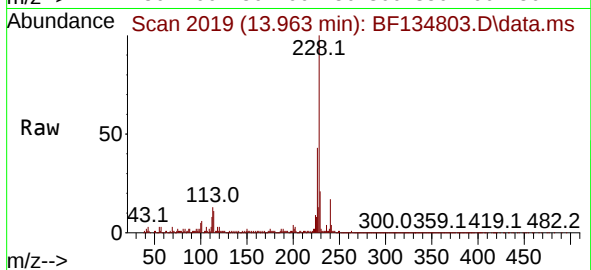
Tgt Ion:228 Resp: 178309
 Ion Ratio Lower Upper
 228 100
 226 42.8 22.3 33.5
 229 21.1 15.8 23.6

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#83

Chrysene

Concen: 8.758 ng

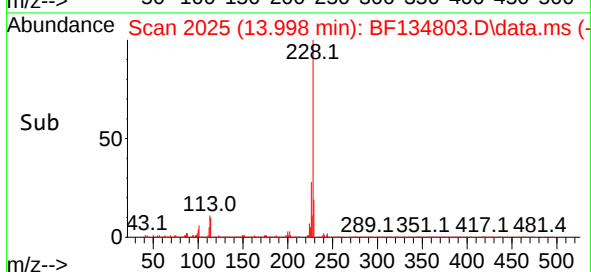
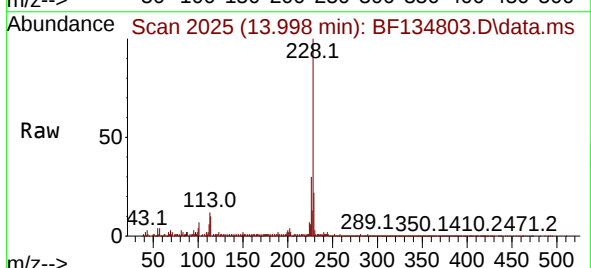
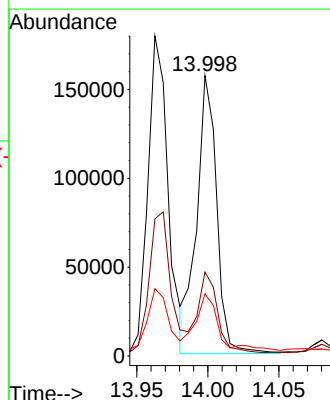
RT: 13.998 min Scan# 2025

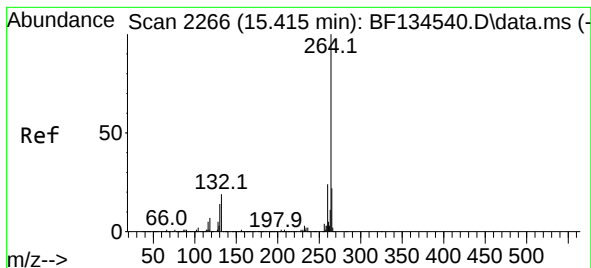
Delta R.T. 0.000 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Tgt Ion:228 Resp: 154121
 Ion Ratio Lower Upper
 228 100
 226 30.0 24.5 36.7
 229 22.2 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL

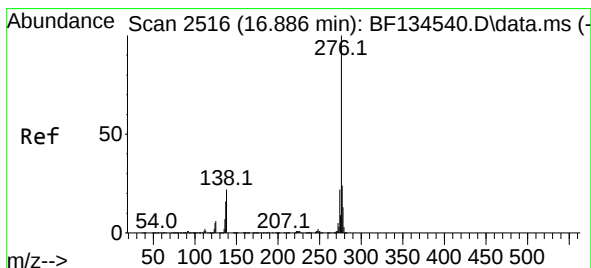
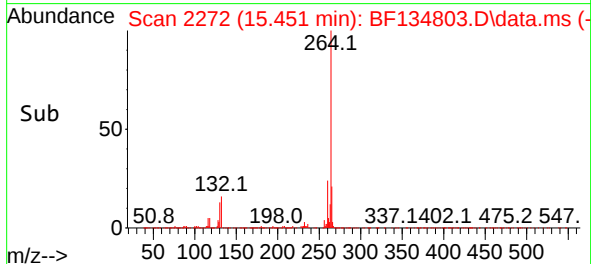
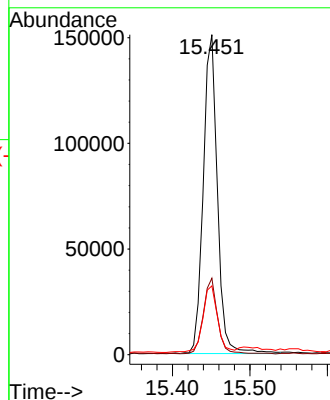
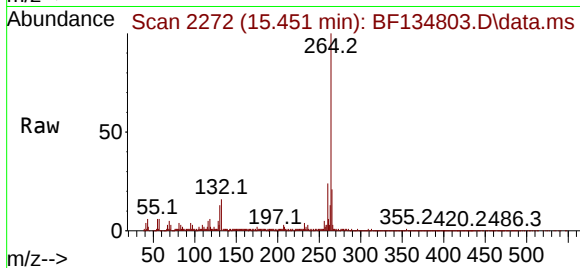
Tgt Ion:	264	Resp:	191228
Ion Ratio	Lower	Upper	
264	100		
260	23.9	18.4	27.6
265	21.5	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.078 ng

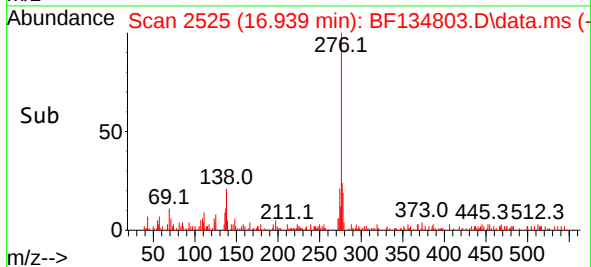
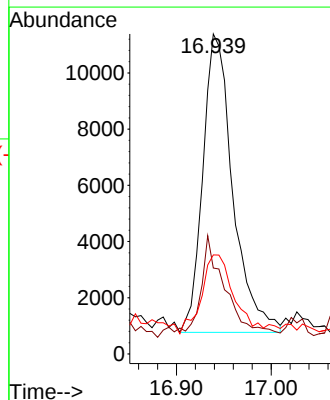
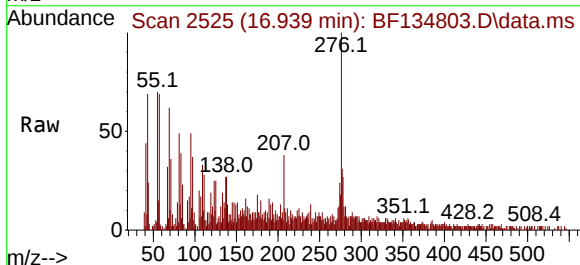
RT: 16.939 min Scan# 2525

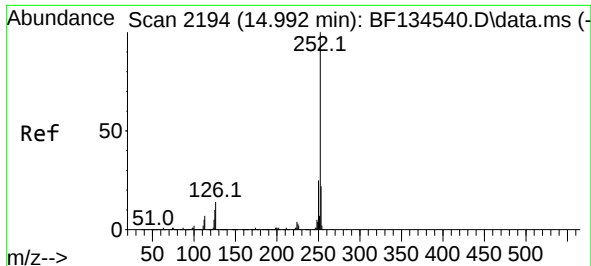
Delta R.T. 0.012 min

Lab File: BF134803.D

Acq: 16 Aug 2023 12:06

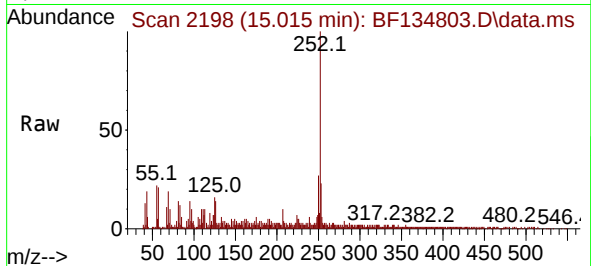
Tgt Ion:	276	Resp:	23376
Ion Ratio	Lower	Upper	
276	100		
138	24.5	14.2	21.4#
277	29.6	19.9	29.9





#88
Benzo(b)fluoranthene
Concen: 6.230 ng m
RT: 15.015 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

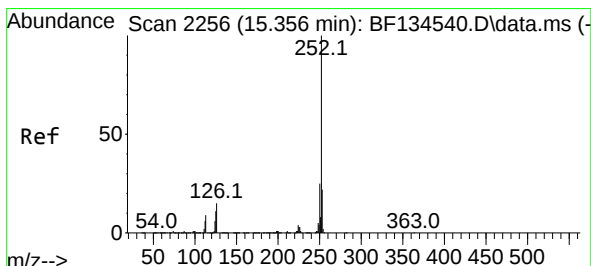
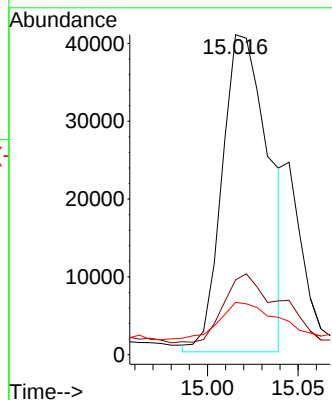
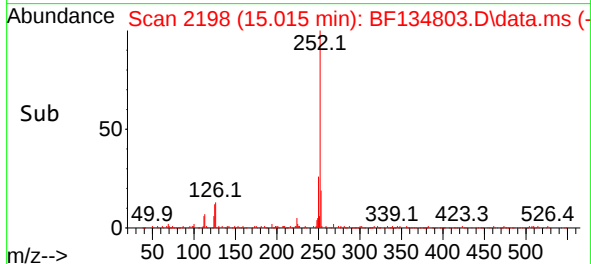
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB06-Z84-85DL



Tgt Ion:252 Resp: 72650
Ion Ratio Lower Upper
252 100
253 23.3 17.3 25.9
125 16.4 6.0 9.0

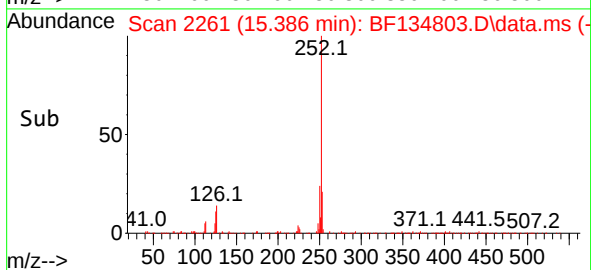
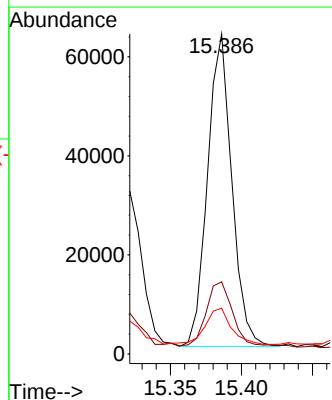
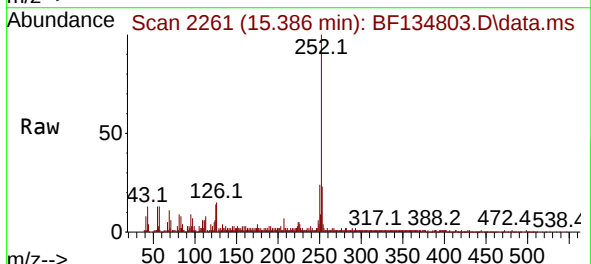
Manual Integrations
APPROVED

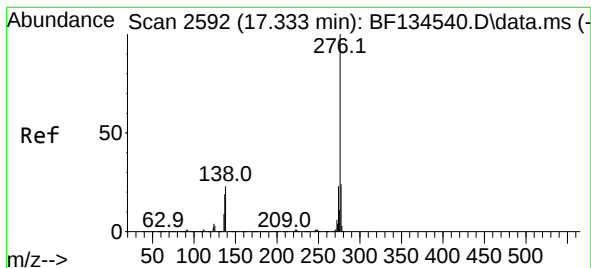
Reviewed By :Yogesh Patel 08/17/2023
Supervised By :mohammad ahmed 08/17/2023



#90
Benzo(a)pyrene
Concen: 6.893 ng
RT: 15.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BF134803.D
Acq: 16 Aug 2023 12:06

Tgt Ion:252 Resp: 74958
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.4
125 14.3 6.2 9.4





#92

Benzo(g,h,i)perylene

Concen: 2.539 ng

RT: 17.398 min Scan# 20

Delta R.T. 0.024 min

Lab File: BF134803.D

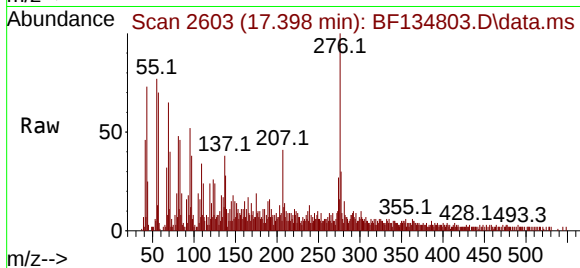
Acq: 16 Aug 2023 12:06

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB06-Z84-85DL



Tgt Ion:	276	Resp:	23538
Ion Ratio	Lower	Upper	
276	100		
277	30.4	19.0	28.6
138	27.6	12.2	18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2023

Supervised By :mohammad ahmed 08/17/2023

