

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
 Data File : BF134953.D
 Acq On : 25 Aug 2023 21:50
 Operator : CG\JU
 Sample : 04093-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z45-46

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023

Quant Time: Aug 26 02:52:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	94105	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	331313	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	162852	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	257175	20.000	ng	0.00
76) Chrysene-d12	13.980	240	185276	20.000	ng	0.00
86) Perylene-d12	15.451	264	169700	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	443825	75.208	ng	0.00
7) Phenol-d6	6.422	99	553722	73.431	ng	-0.02
23) Nitrobenzene-d5	7.351	82	317862	52.866	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	101077	52.699	ng	0.00
45) 2-Fluorobiphenyl	9.145	172	564368	53.573	ng	-0.01
79) Terphenyl-d14	12.916	244	542455	40.269	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	5691205	344.016	ng	97
37) 2-Methylnaphthalene	8.786	142	972468	88.145	ng	98
38) 1-Methylnaphthalene	8.892	142	1582775	153.425	ng	99
46) 1,1'-Biphenyl	9.251	154	548108	42.632	ng	99
49) Acenaphthylene	9.692	152	313818	21.223	ng	# 92
52) Acenaphthene	9.875	154	1394965	149.753	ng	98
55) Dibenzofuran	10.033	168	130209	9.601	ng	# 68
58) Fluorene	10.380	166	856709	83.287	ng	99
71) Phenanthrene	11.363	178	3150828	233.803	ng	98
72) Anthracene	11.404	178	1163886	84.291	ng	99
75) Fluoranthene	12.551	202	1538426	120.481	ng	98
78) Pyrene	12.780	202	2288334	116.490	ng	98
81) Benzo(a)anthracene	13.968	228	908805m	71.894	ng	
83) Chrysene	14.010	228	761414	61.048	ng	98
87) Indeno(1,2,3-cd)pyrene	16.939	276	170706	14.073	ng	96
88) Benzo(b)fluoranthene	15.027	252	489904m	51.168	ng	
89) Benzo(k)fluoranthene	15.045	252	167802m	17.848	ng	
90) Benzo(a)pyrene	15.392	252	584983	61.204	ng	99
91) Dibenzo(a,h)anthracene	16.951	278	52002m	5.298	ng	
92) Benzo(g,h,i)perylene	17.392	276	187282	18.641	ng	99

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

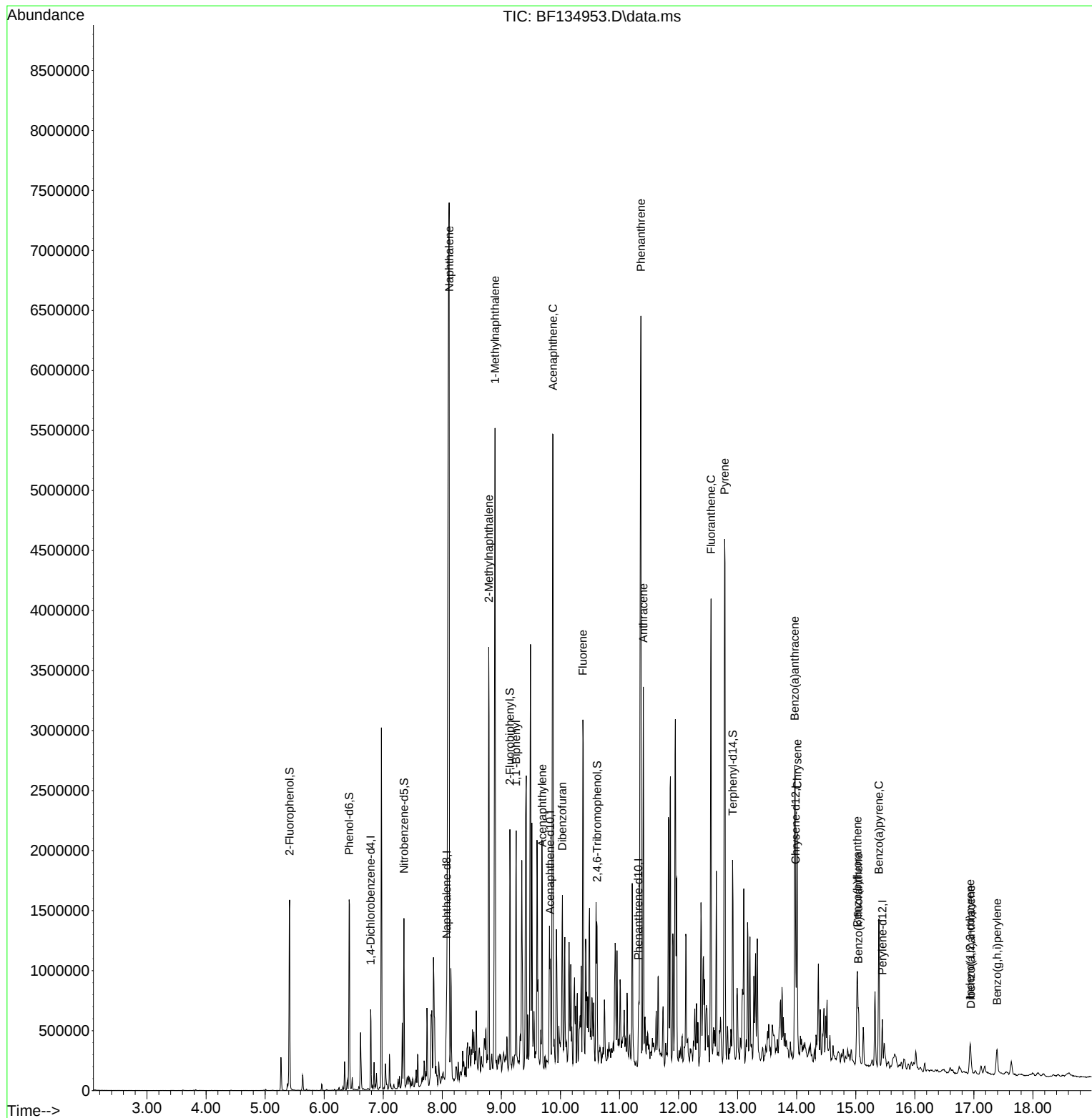
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
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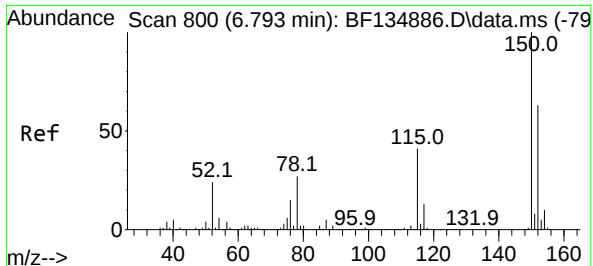
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46

Quant Time: Aug 26 02:52:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 22 19:33:25 2023
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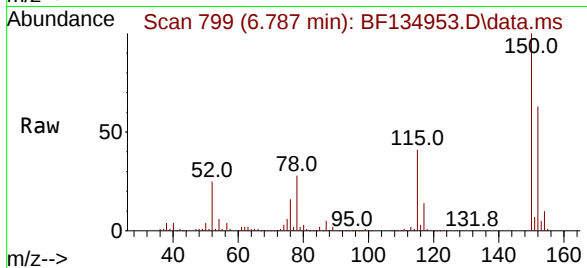
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 799
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

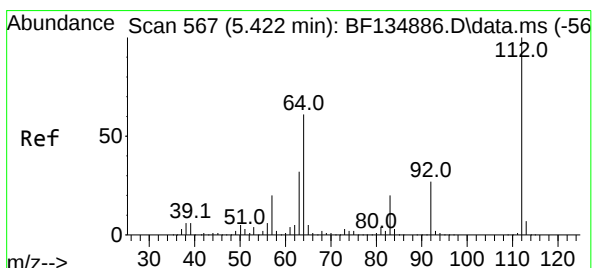
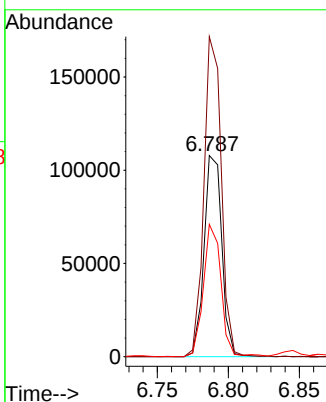
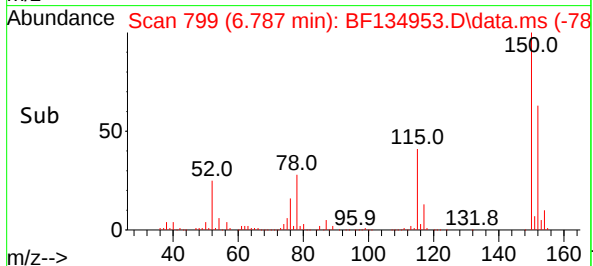
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



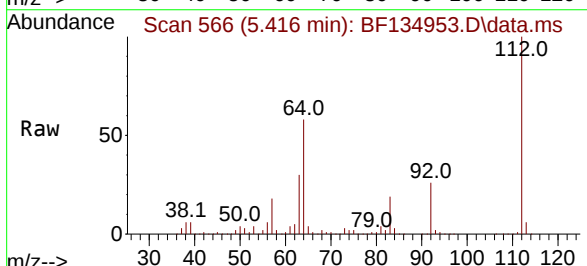
Tgt Ion:152 Resp: 94108
Ion Ratio Lower Upper
152 100
150 159.1 126.1 189.1
115 65.8 51.1 76.7

Manual Integrations
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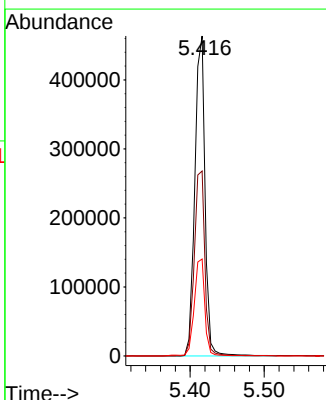
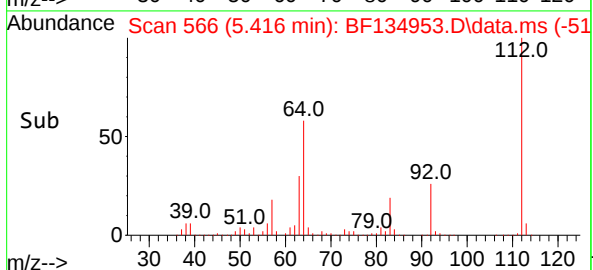
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

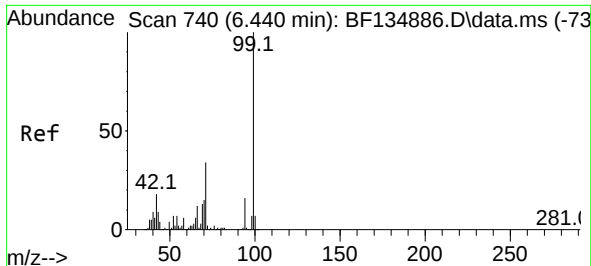


#5
2-Fluorophenol
Concen: 75.208 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50



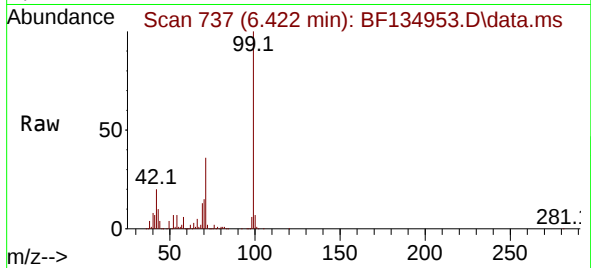
Tgt Ion:112 Resp: 443825
Ion Ratio Lower Upper
112 100
64 57.8 48.6 73.0
63 30.3 25.7 38.5





#7
Phenol-d6
Concen: 73.431 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

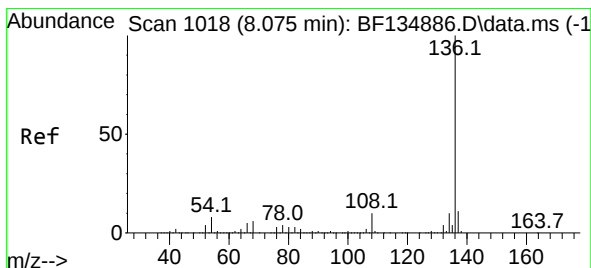
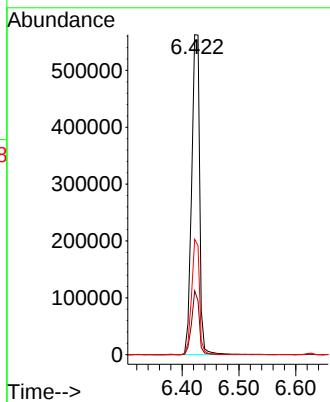
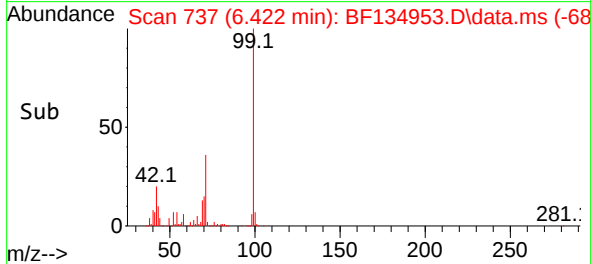
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ClientSampleId :
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Tgt Ion: 99 Resp: 55372
Ion Ratio Lower Upper
99 100
42 19.9 14.6 22.0
71 36.1 27.6 41.4

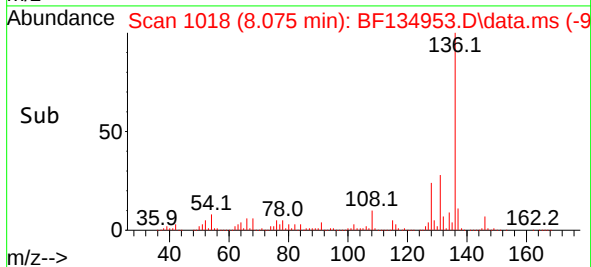
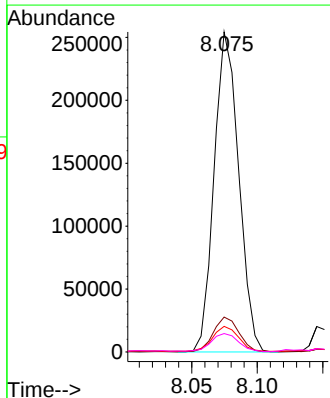
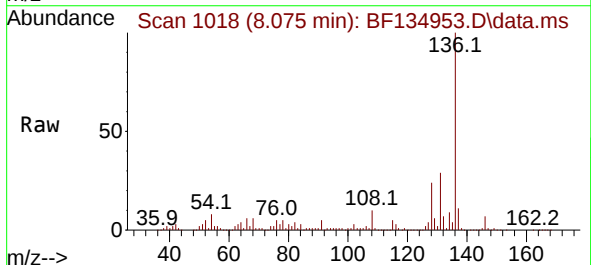
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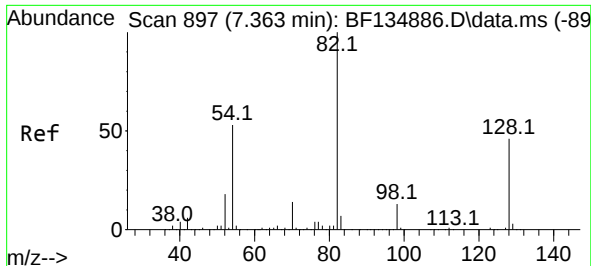
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.000 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

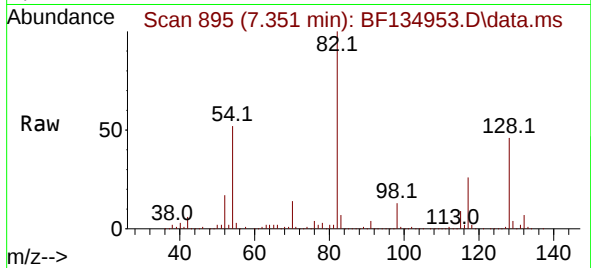
Tgt Ion:136 Resp: 331313
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 8.0 6.6 9.8
68 5.7 5.0 7.4





#23
Nitrobenzene-d5
Concen: 52.866 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.012 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

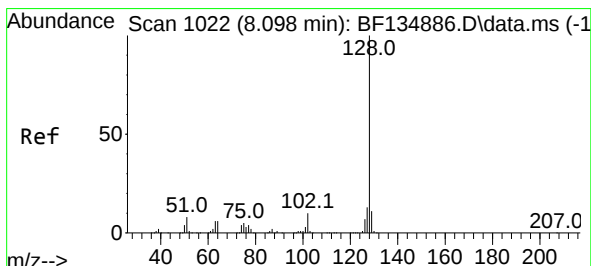
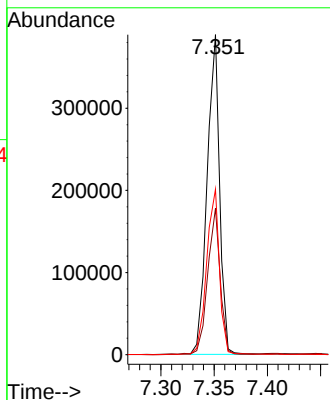
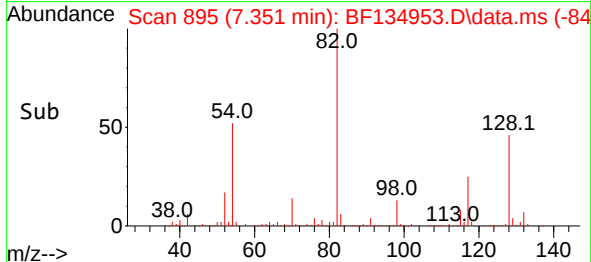
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



Tgt Ion: 82 Resp: 317862
Ion Ratio Lower Upper
82 100
128 45.7 36.6 54.8
54 51.7 42.6 63.8

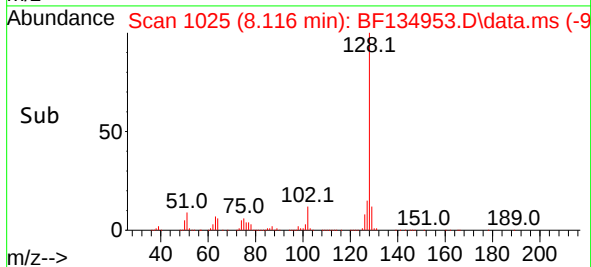
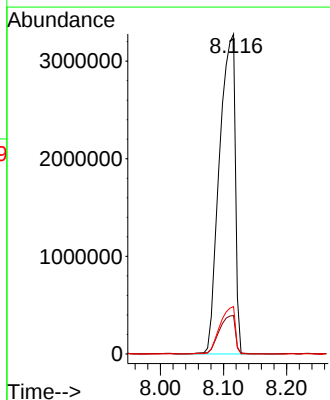
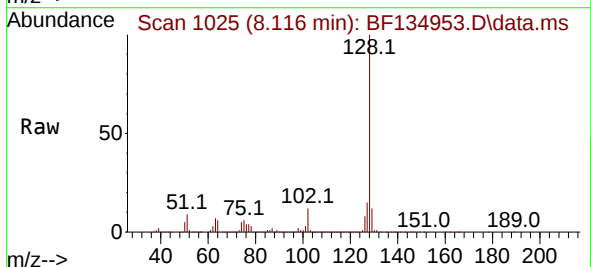
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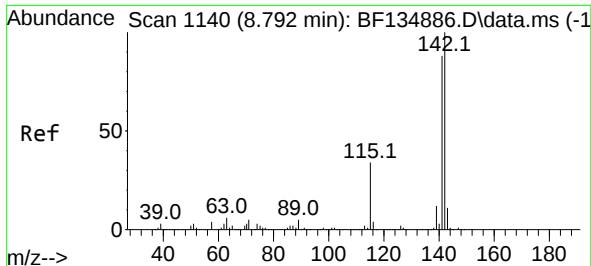
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#31
Naphthalene
Concen: 344.016 ng
RT: 8.116 min Scan# 1025
Delta R.T. 0.018 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

Tgt Ion:128 Resp: 5691205
Ion Ratio Lower Upper
128 100
129 12.0 9.0 13.4
127 14.8 10.6 16.0





#37

2-Methylnaphthalene

Concen: 88.145 ng

RT: 8.786 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF134953.D

Acq: 25 Aug 2023 21:50

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z45-46

Tgt Ion:142 Resp: 972468

Ion Ratio Lower Upper

142 100

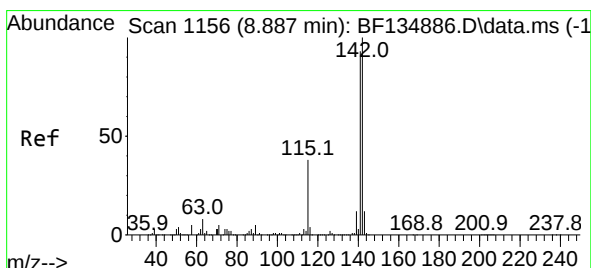
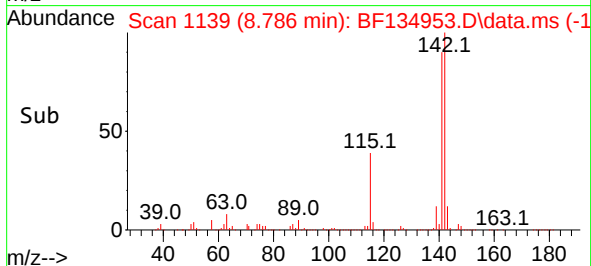
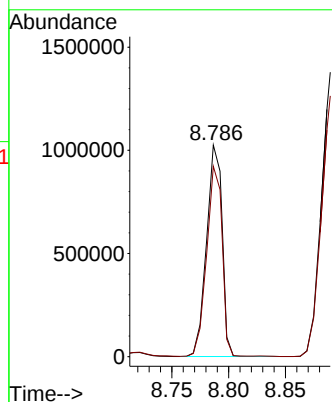
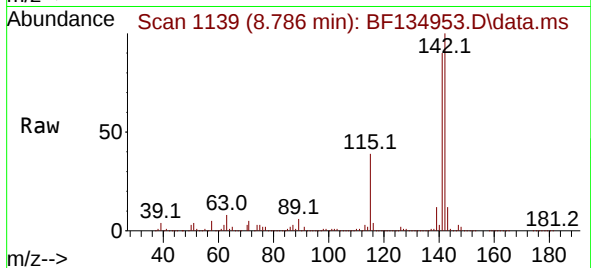
141 90.0 70.2 105.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#38

1-Methylnaphthalene

Concen: 153.425 ng

RT: 8.892 min Scan# 1157

Delta R.T. 0.006 min

Lab File: BF134953.D

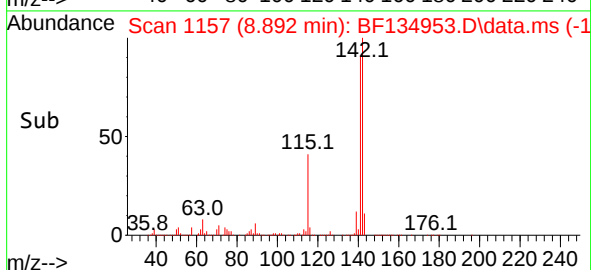
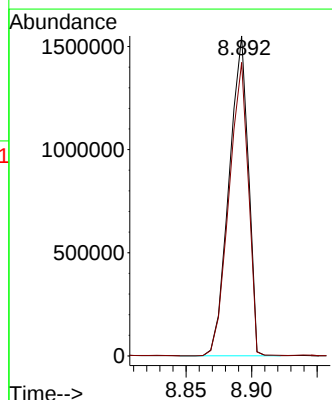
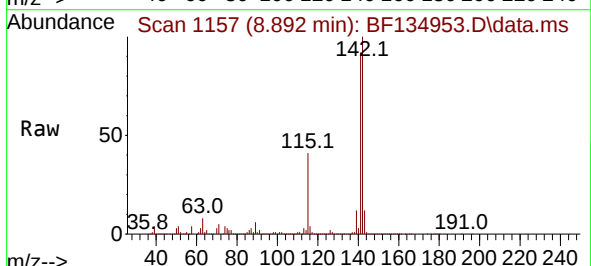
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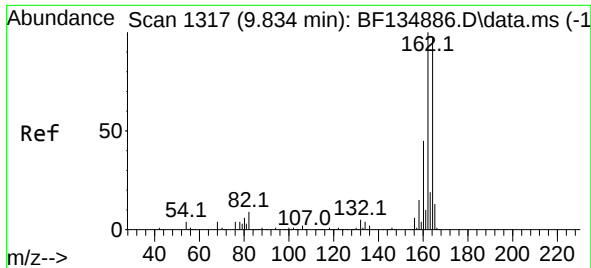
Tgt Ion:142 Resp: 1582775

Ion Ratio Lower Upper

142 100

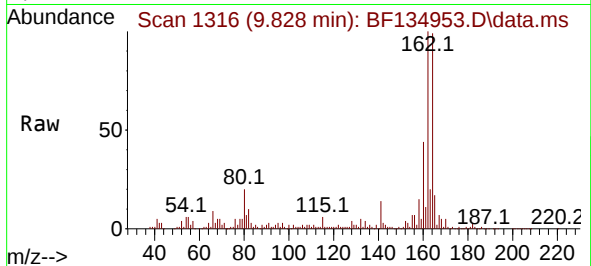
141 91.7 74.1 111.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

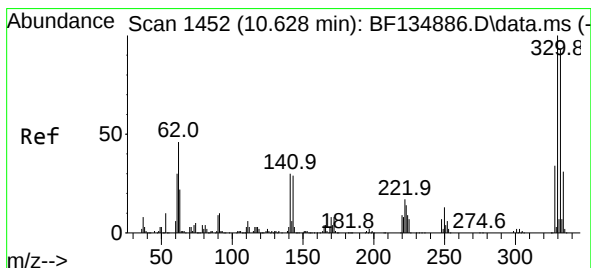
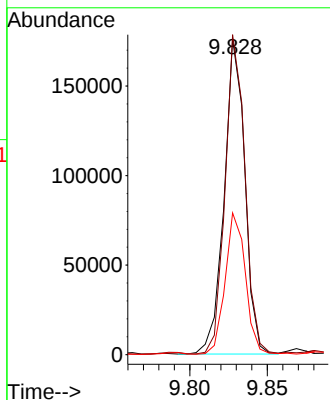
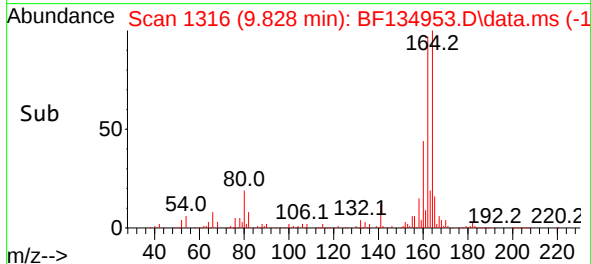
Instrument :
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NEVINS-SB04-Z45-46



Tgt Ion:164 Resp: 16285
Ion Ratio Lower Upper
164 100
162 101.4 82.6 123.8
160 44.9 37.0 55.4

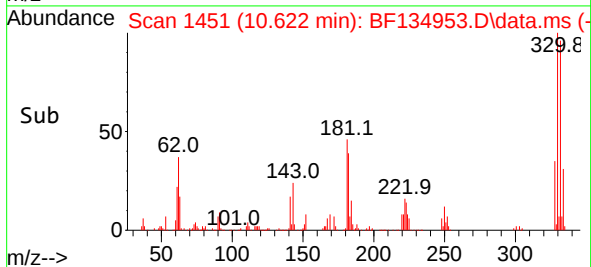
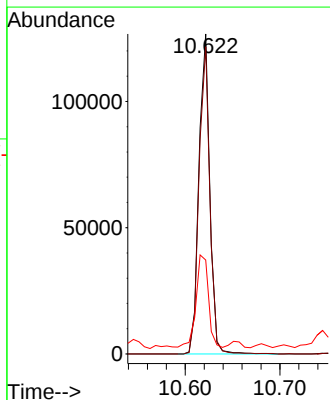
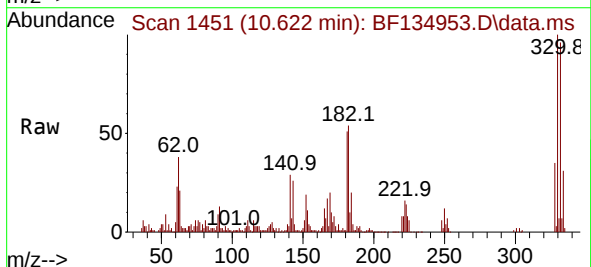
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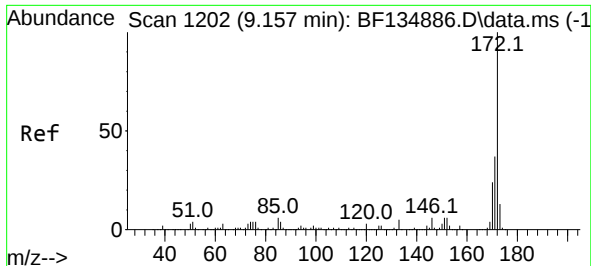
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#42
2,4,6-Tribromophenol
Concen: 52.699 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

Tgt Ion:330 Resp: 101077
Ion Ratio Lower Upper
330 100
332 95.9 76.3 114.5
141 32.7 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 53.573 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF134953.D

Acq: 25 Aug 2023 21:50

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z45-46

Tgt Ion:172 Resp: 564368

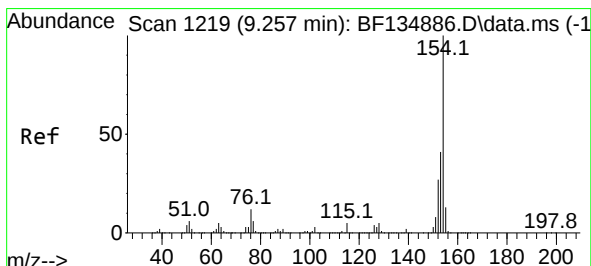
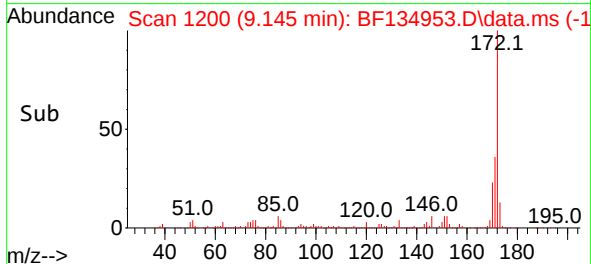
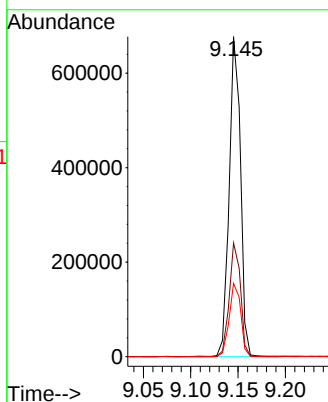
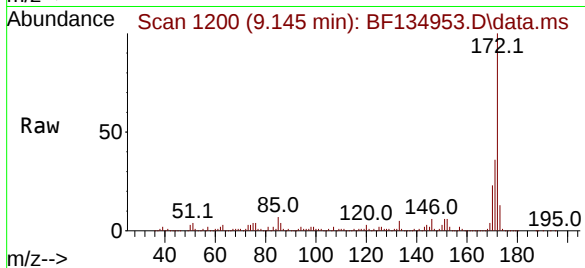
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.4	44.0
170	22.9	19.6	29.4

Manual Integrations

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Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#46

1,1'-Biphenyl

Concen: 42.632 ng

RT: 9.251 min Scan# 1218

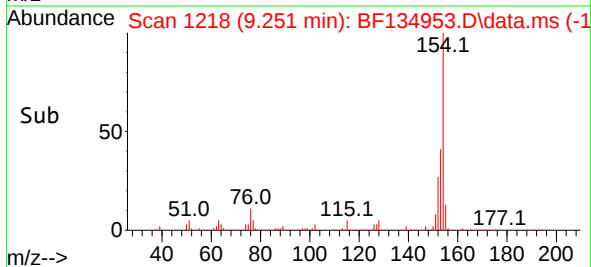
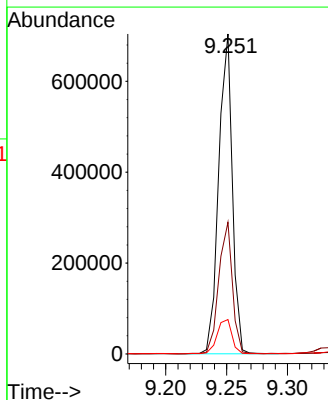
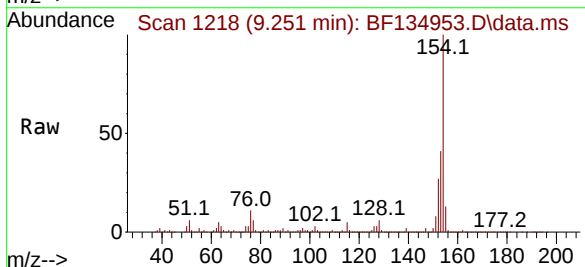
Delta R.T. -0.006 min

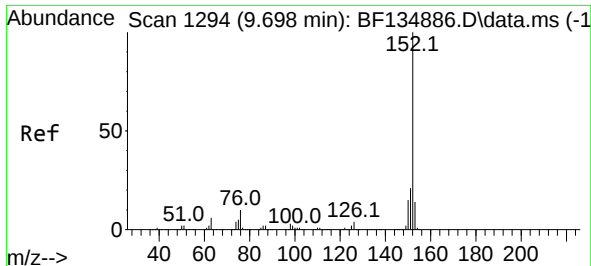
Lab File: BF134953.D

Acq: 25 Aug 2023 21:50

Tgt Ion:154 Resp: 548108

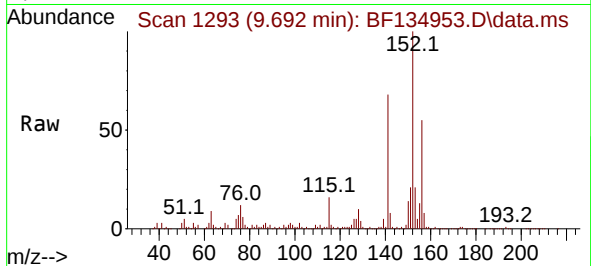
Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.3	61.3
76	10.8	0.0	31.8





#49
Acenaphthylene
Concen: 21.223 ng
RT: 9.692 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

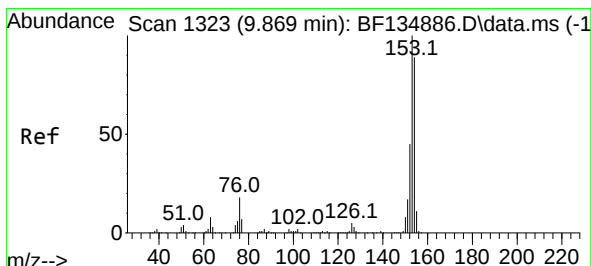
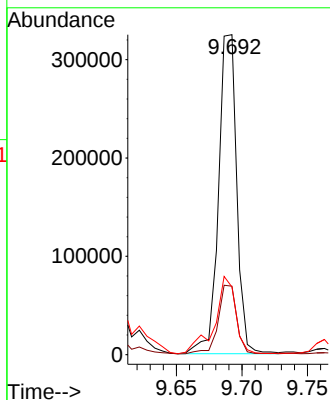
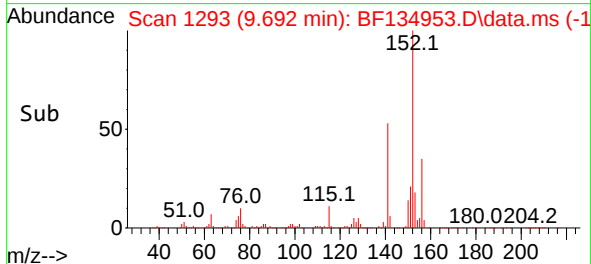
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



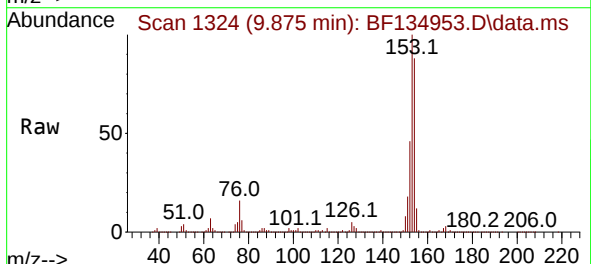
Tgt Ion:152 Resp: 313818
Ion Ratio Lower Upper
152 100
151 21.4 16.5 24.7
153 21.1 11.3 16.9

Manual Integrations
APPROVED

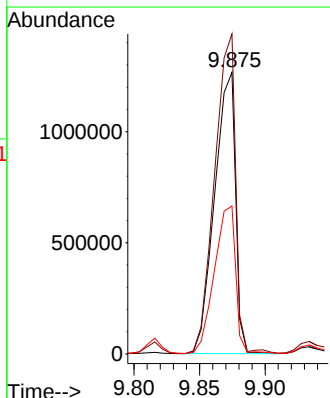
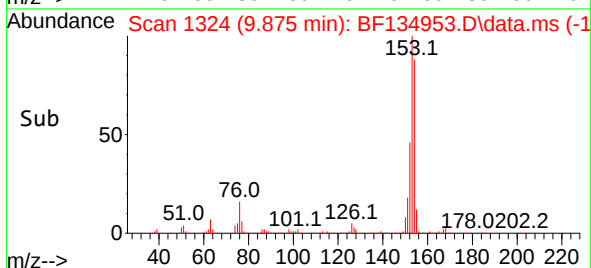
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

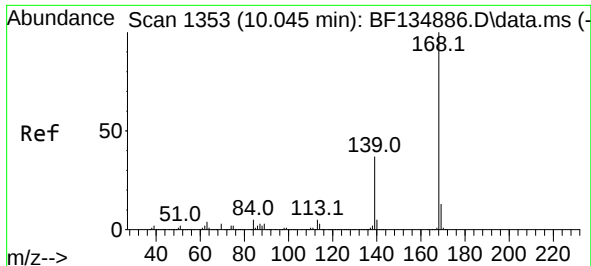


#52
Acenaphthene
Concen: 149.753 ng
RT: 9.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50



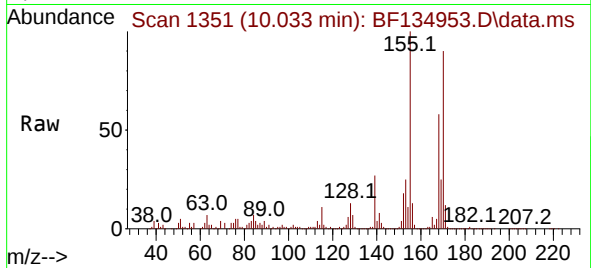
Tgt Ion:154 Resp: 1394965
Ion Ratio Lower Upper
154 100
153 113.6 89.6 134.4
152 52.5 40.5 60.7





#55
Dibenzofuran
Concen: 9.601 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

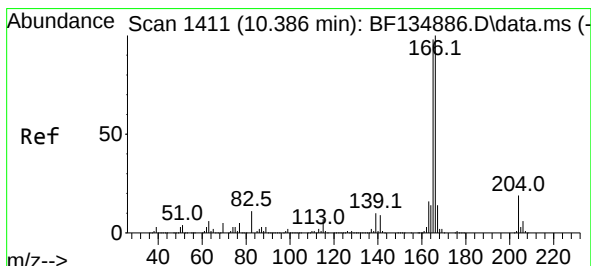
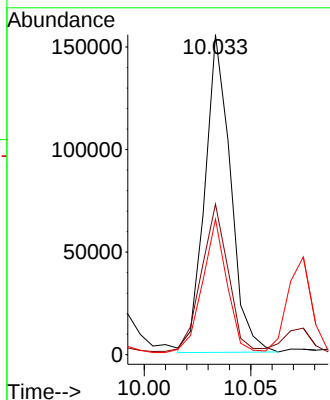
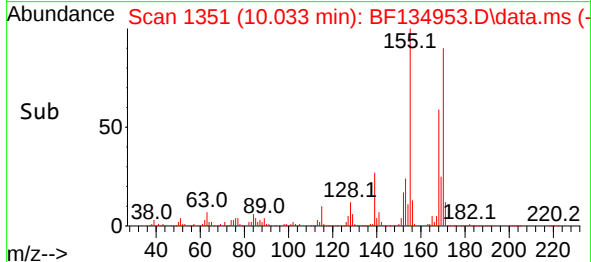
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



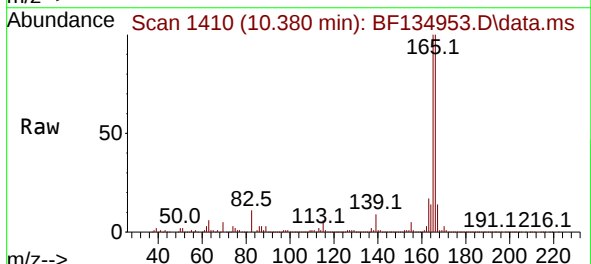
Tgt Ion:168 Resp: 130209
Ion Ratio Lower Upper
168 100
139 47.1 29.5 44.3
169 42.4 10.7 16.1

Manual Integrations
APPROVED

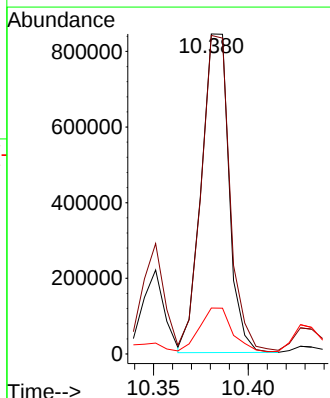
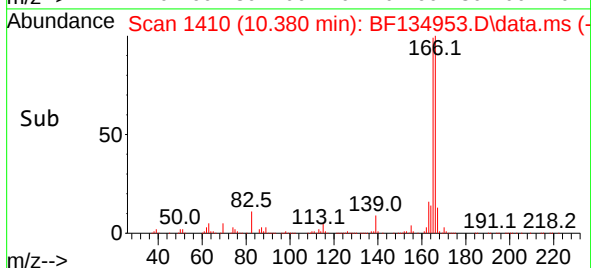
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

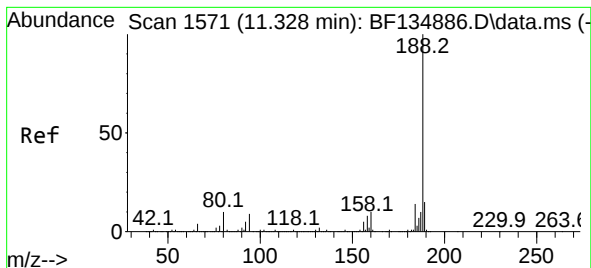


#58
Fluorene
Concen: 83.287 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50



Tgt Ion:166 Resp: 856709
Ion Ratio Lower Upper
166 100
165 99.5 78.5 117.7
167 14.4 11.0 16.6





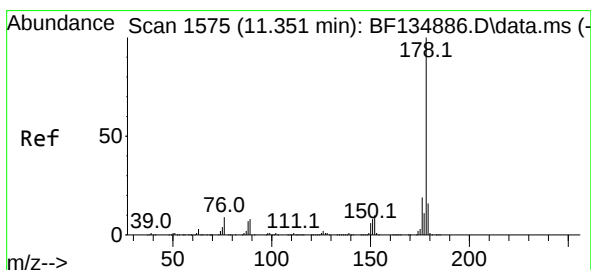
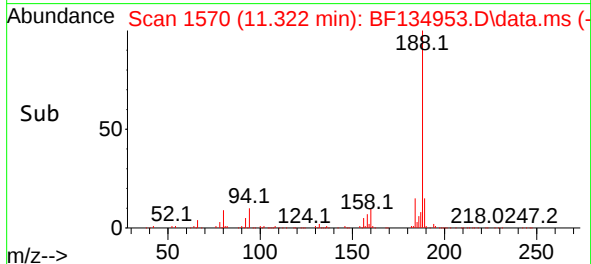
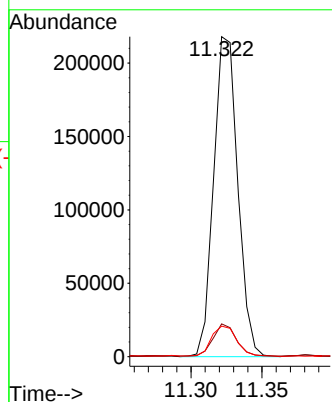
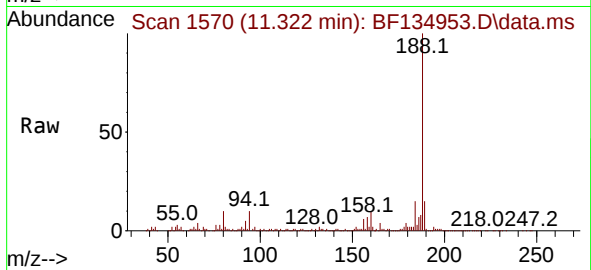
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46

Tgt Ion:188 Resp: 25717
Ion Ratio Lower Upper
188 100
94 10.2 7.5 11.3
80 9.5 7.8 11.6

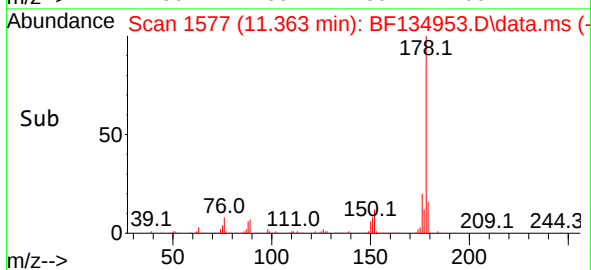
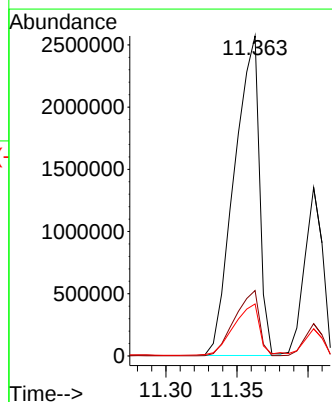
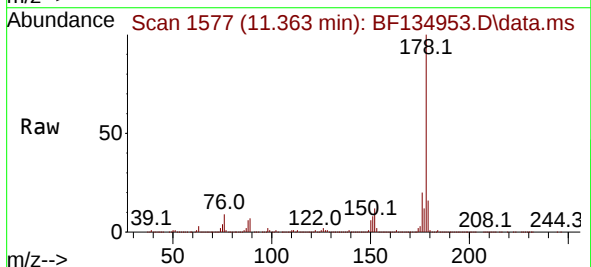
Manual Integrations
APPROVED

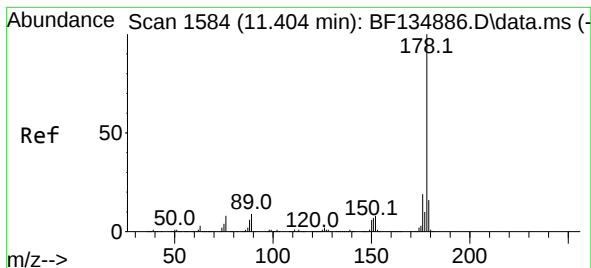
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#71
Phenanthrene
Concen: 233.803 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.012 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

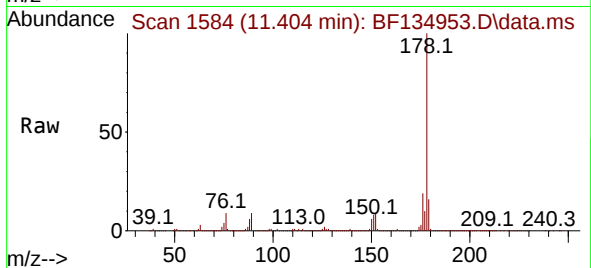
Tgt Ion:178 Resp: 3150828
Ion Ratio Lower Upper
178 100
176 20.5 15.5 23.3
179 16.3 12.6 19.0





#72
 Anthracene
 Concen: 84.291 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF134953.D
 Acq: 25 Aug 2023 21:50

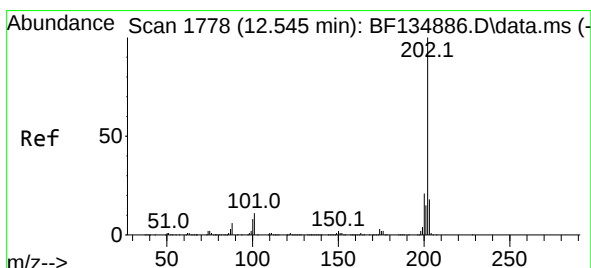
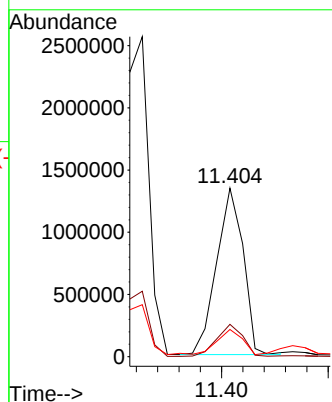
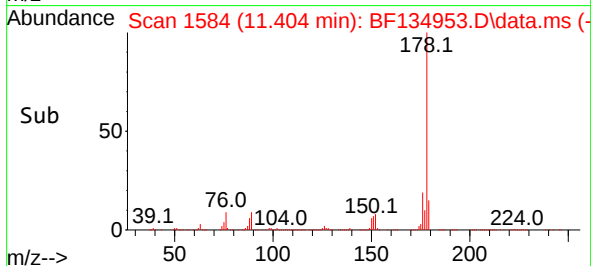
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z45-46



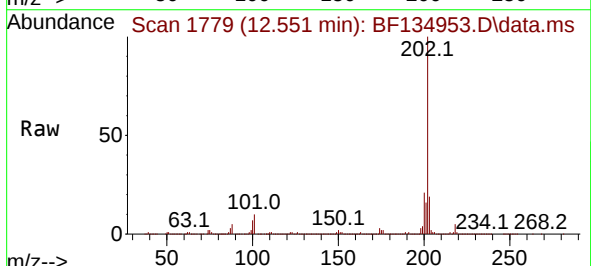
Tgt Ion:178 Resp: 1163880
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.0 22.6
 179 16.1 12.5 18.7

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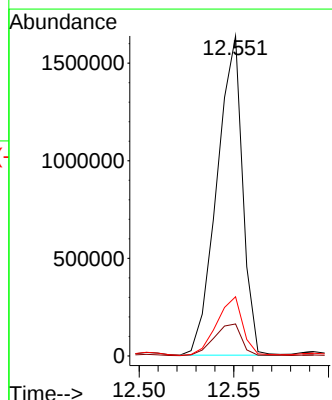
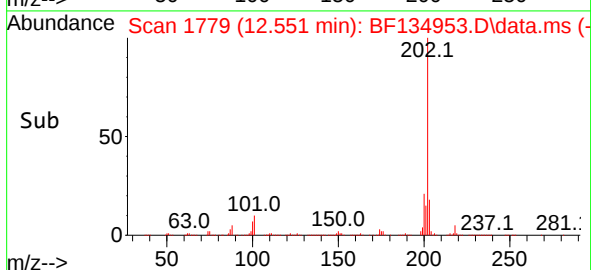
Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023

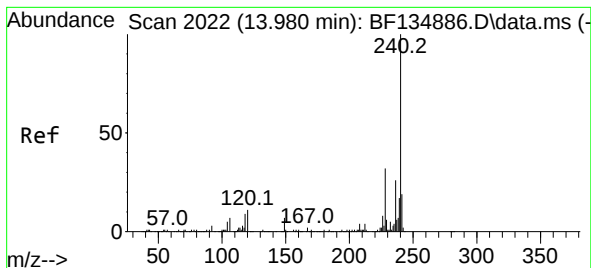


#75
 Fluoranthene
 Concen: 120.481 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. 0.006 min
 Lab File: BF134953.D
 Acq: 25 Aug 2023 21:50



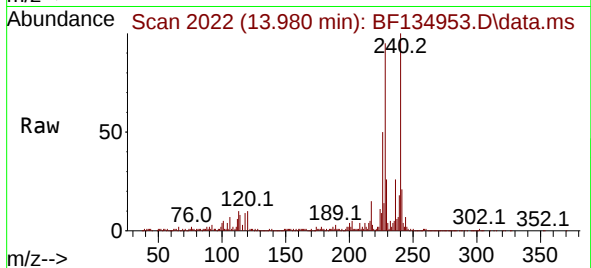
Tgt Ion:202 Resp: 1538426
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 30.5
 203 18.5 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

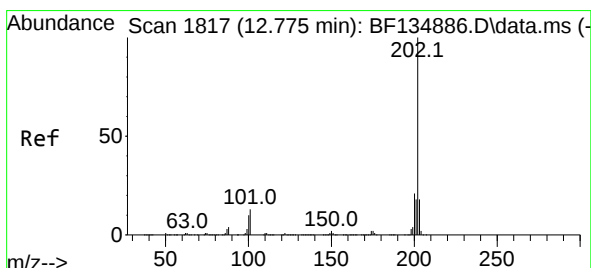
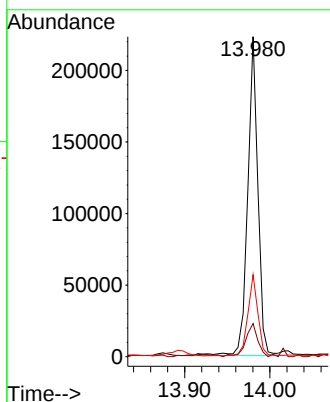
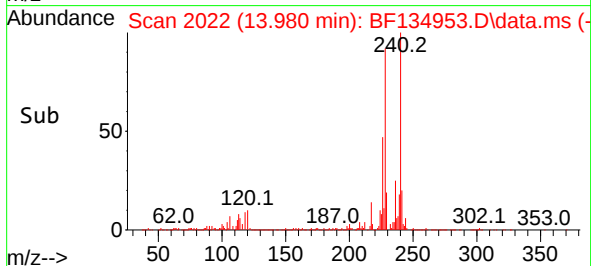
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



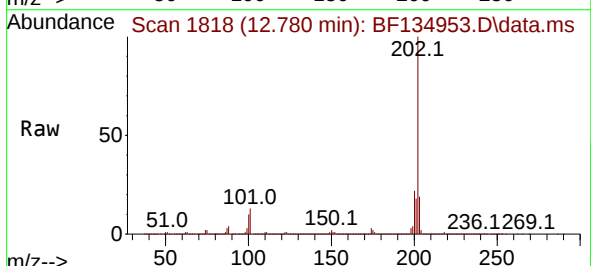
Tgt Ion:240 Resp: 185270
Ion Ratio Lower Upper
240 100
120 10.3 8.6 12.8
236 25.6 20.6 31.0

Manual Integrations
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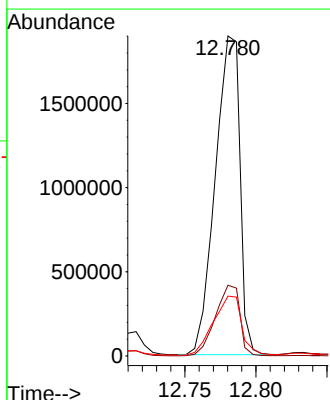
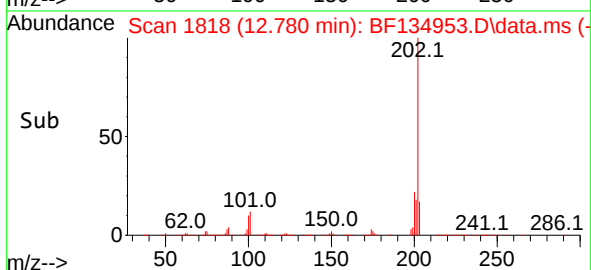
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

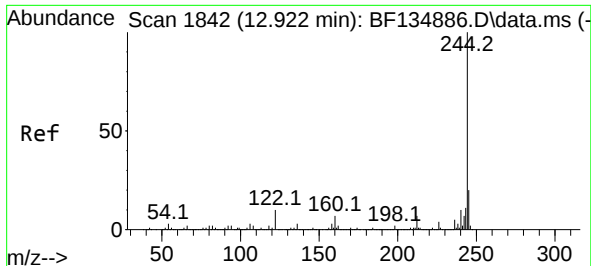


#78
Pyrene
Concen: 116.490 ng
RT: 12.780 min Scan# 1818
Delta R.T. 0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50



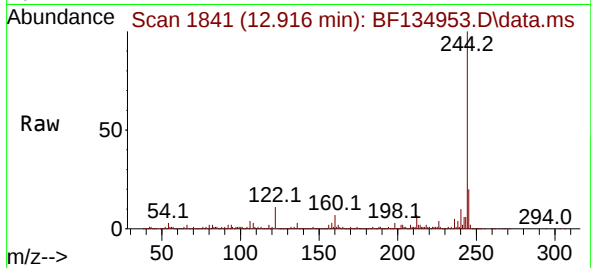
Tgt Ion:202 Resp: 2288334
Ion Ratio Lower Upper
202 100
200 22.1 17.1 25.7
203 18.7 14.2 21.2





#79
Terphenyl-d14
Concen: 40.269 ng
RT: 12.916 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

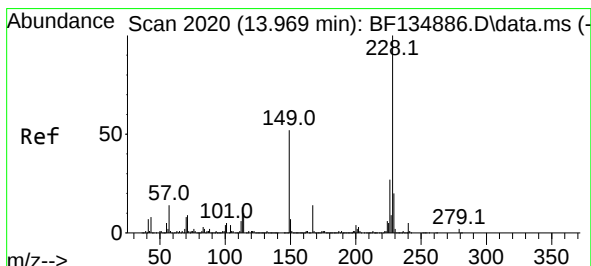
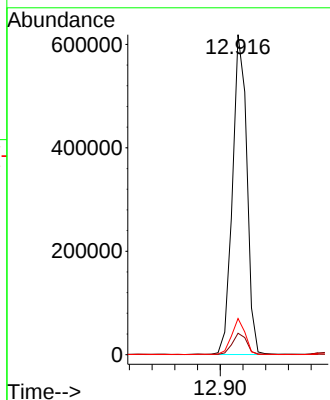
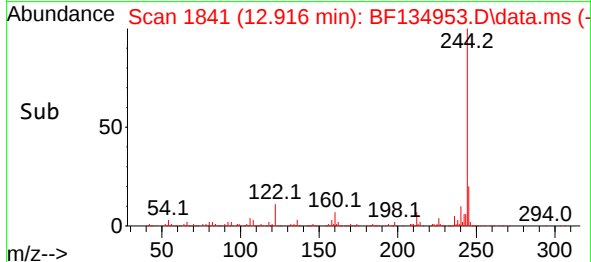
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



Tgt Ion:244 Resp: 542458
Ion Ratio Lower Upper
244 100
212 6.7 5.4 8.0
122 11.3 8.2 12.4

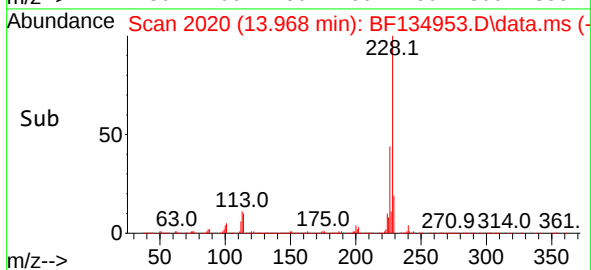
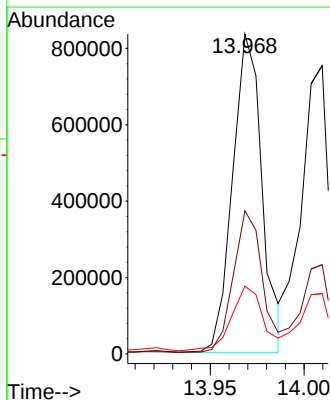
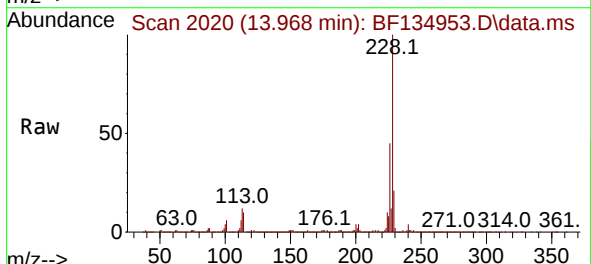
Manual Integrations
APPROVED

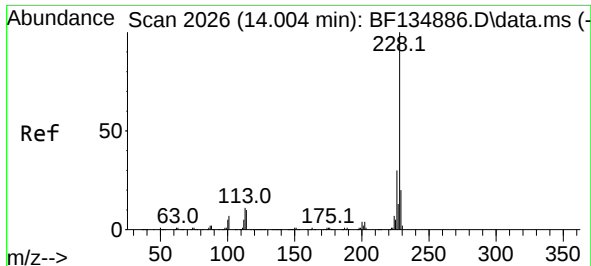
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#81
Benzo(a)anthracene
Concen: 71.894 ng m
RT: 13.968 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

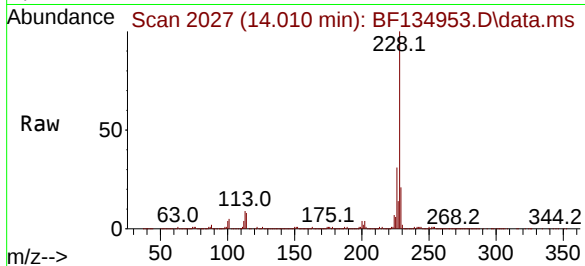
Tgt Ion:228 Resp: 908805
Ion Ratio Lower Upper
228 100
226 44.8 21.8 32.6#
229 21.2 15.6 23.4





#83
Chrysene
Concen: 61.048 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

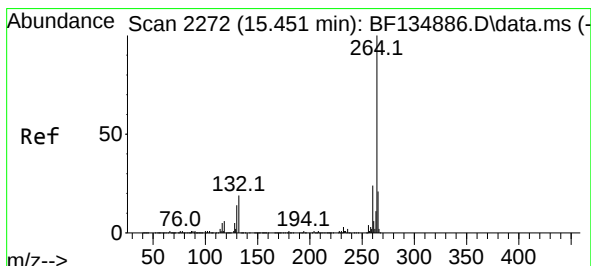
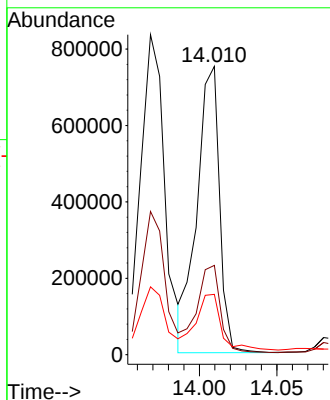
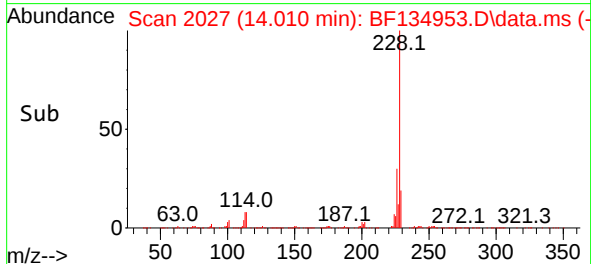
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



Tgt Ion:228 Resp: 761414
Ion Ratio Lower Upper
228 100
226 30.9 24.2 36.2
229 20.9 16.0 24.0

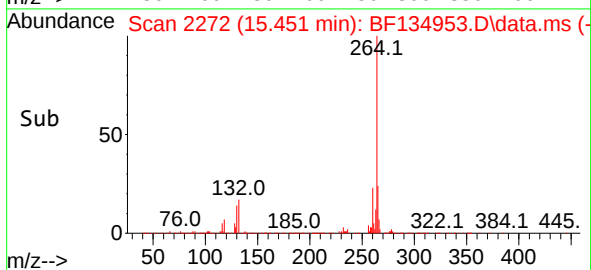
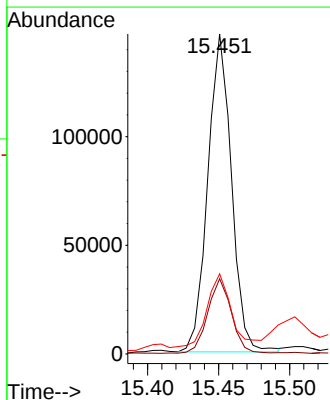
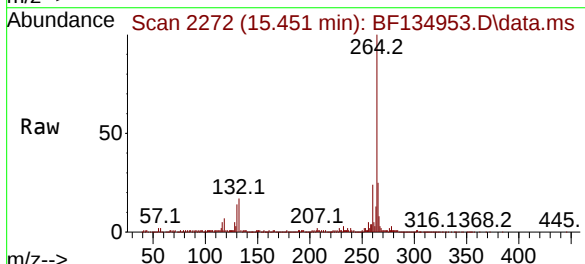
Manual Integrations
APPROVED

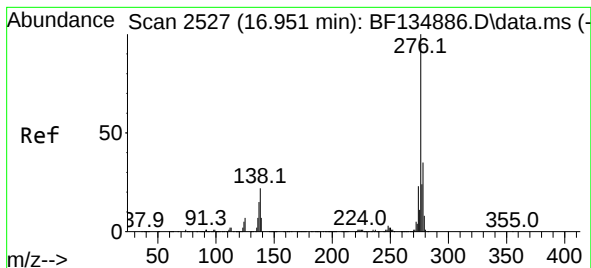
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

Tgt Ion:264 Resp: 169700
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 25.0 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 14.073 ng

RT: 16.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134953.D

Acq: 25 Aug 2023 21:50

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z45-46

Tgt Ion:276 Resp: 170700

Ion Ratio Lower Upper

276 100

138 20.6 19.7 29.5

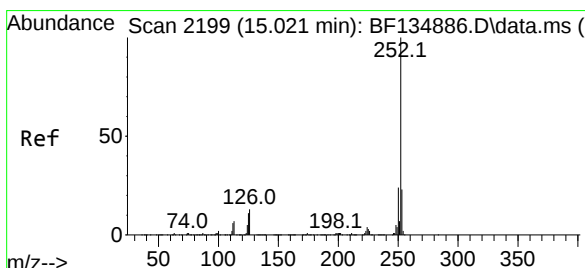
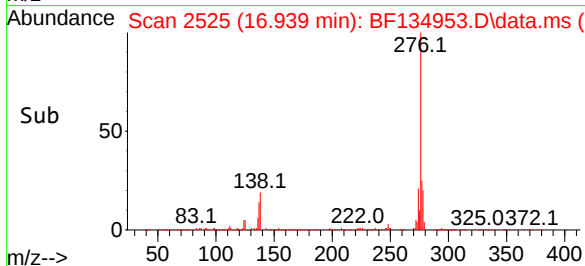
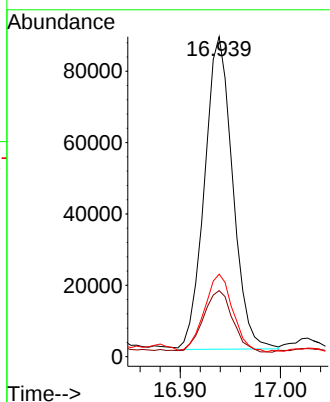
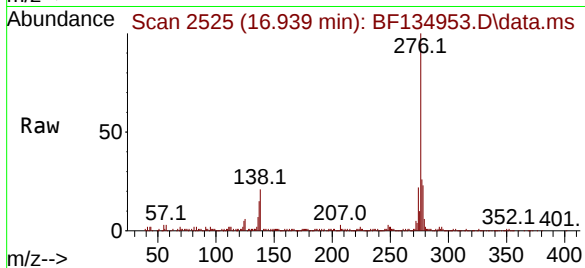
277 25.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#88

Benzo(b)fluoranthene

Concen: 51.168 ng m

RT: 15.027 min Scan# 2200

Delta R.T. 0.006 min

Lab File: BF134953.D

Acq: 25 Aug 2023 21:50

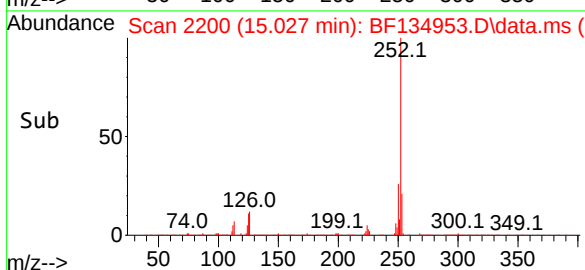
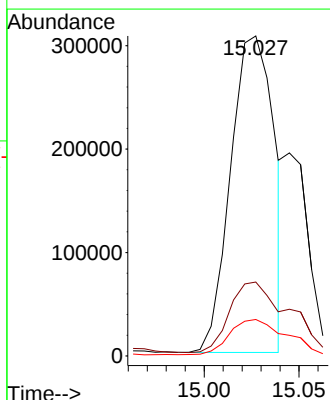
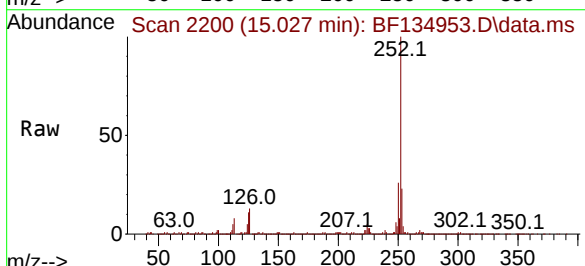
Tgt Ion:252 Resp: 489904

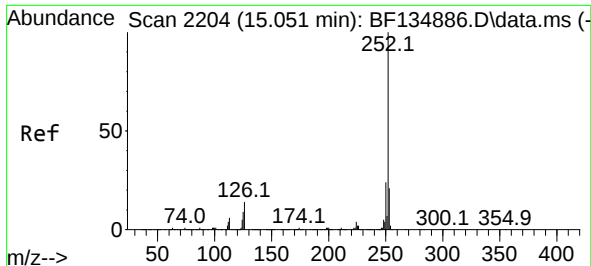
Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

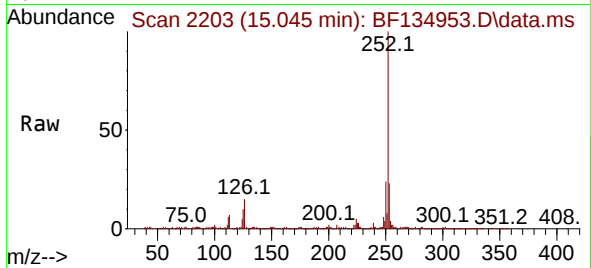
125 11.4 8.4 12.6





#89
Benzo(k)fluoranthene
Concen: 17.848 ng m
RT: 15.045 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

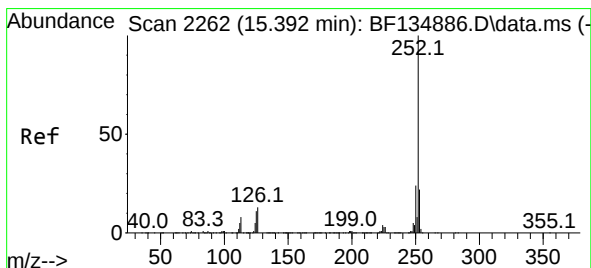
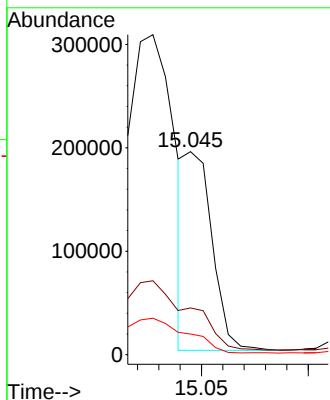
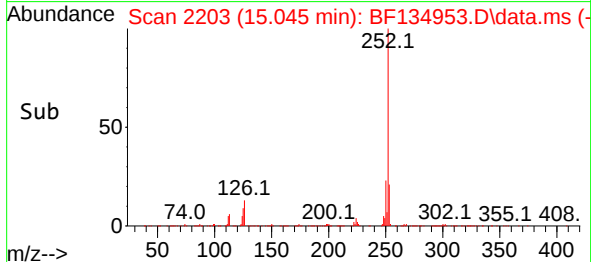
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



Tgt Ion:252 Resp: 16780
Ion Ratio Lower Upper
252 100
253 23.0 17.1 25.7
125 10.2 8.0 12.0

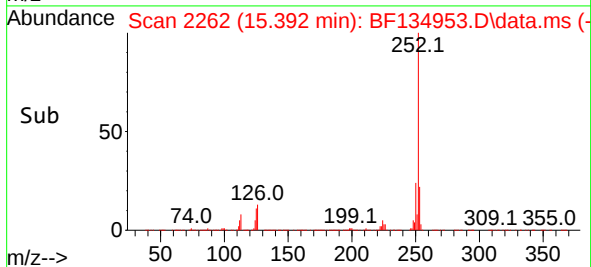
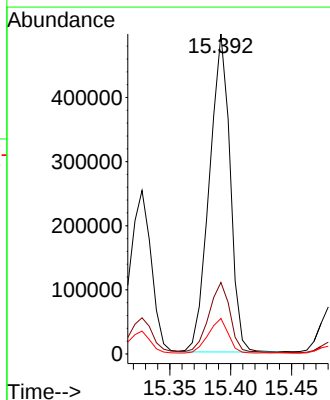
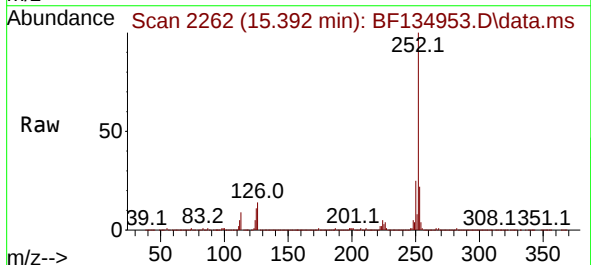
Manual Integrations
APPROVED

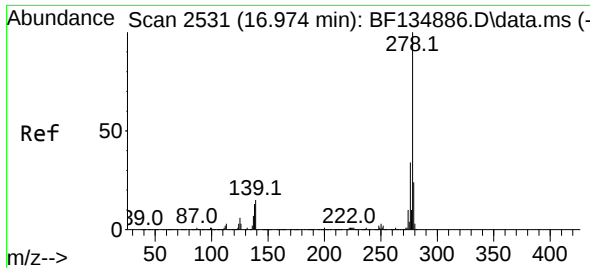
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#90
Benzo(a)pyrene
Concen: 61.204 ng
RT: 15.392 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

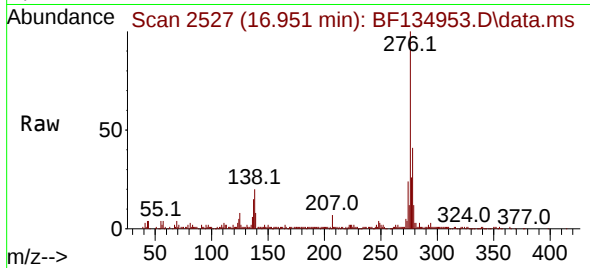
Tgt Ion:252 Resp: 584983
Ion Ratio Lower Upper
252 100
253 22.3 17.6 26.4
125 11.1 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 5.298 ng m
RT: 16.951 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50

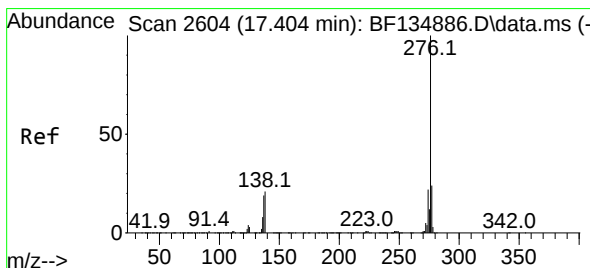
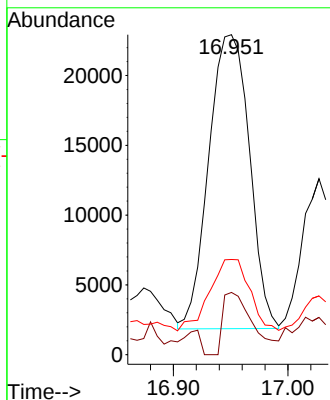
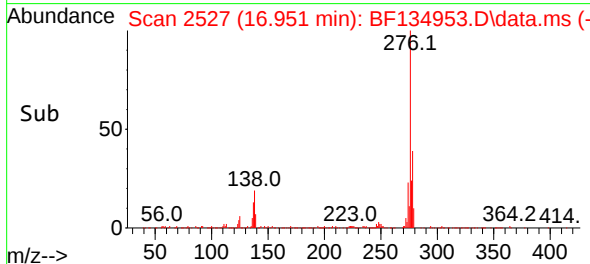
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z45-46



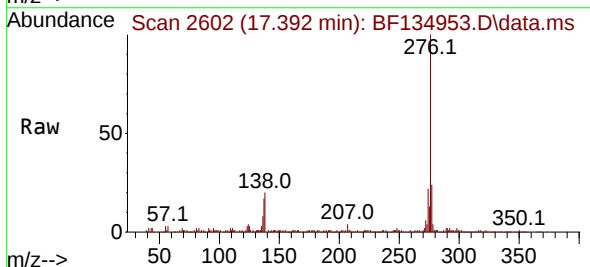
Tgt Ion: 278 Resp: 5200
Ion Ratio Lower Upper
278 100
139 19.4 12.2 18.4
279 29.8 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#92
Benzo(g,h,i)perylene
Concen: 18.641 ng
RT: 17.392 min Scan# 2602
Delta R.T. -0.012 min
Lab File: BF134953.D
Acq: 25 Aug 2023 21:50



Tgt Ion: 276 Resp: 187282
Ion Ratio Lower Upper
276 100
277 24.0 19.2 28.8
138 20.3 17.0 25.6

