

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
 Data File : BF134330.D
 Acq On : 17 Jul 2023 23:11
 Operator : CG\JU
 Sample : 03600-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 18 01:18:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.839	152	67152	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	240778	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	111002	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	191765	20.000	ng	0.00
76) Chrysene-d12	14.057	240	104277	20.000	ng	# 0.02
86) Perylene-d12	15.568	264	102826	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	182174	45.380	ng	0.00
7) Phenol-d6	6.475	99	213841	43.314	ng	-0.01
23) Nitrobenzene-d5	7.398	82	137063	30.686	ng	-0.01
42) 2,4,6-Tribromophenol	10.674	330	58835	42.274	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	265092	34.721	ng	-0.01
79) Terphenyl-d14	12.980	244	270314	41.720	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.145	128	1534002	131.897	ng	99
37) 2-Methylnaphthalene	8.845	142	1703523	207.128	ng	99
38) 1-Methylnaphthalene	8.945	142	1482590	193.908	ng	100
46) 1,1'-Biphenyl	9.292	154	115636	12.987	ng	98
49) Acenaphthylene	9.739	152	178393	16.030	ng	# 70
52) Acenaphthene	9.922	154	978405	151.510	ng	99
55) Dibenzofuran	10.092	168	812953	80.552	ng	97
58) Fluorene	10.445	166	1695968	216.000	ng	# 97
71) Phenanthrene	11.445	178	8029941	831.793	ng	98
72) Anthracene	11.480	178	2645464	263.465	ng	97
73) Carbazole	11.621	167	503168	54.748	ng	96
75) Fluoranthene	12.639	202	6114882	585.907	ng	98
78) Pyrene	12.874	202	6430728m	662.662	ng	
81) Benzo(a)anthracene	14.051	228	2394074	331.048	ng	97
83) Chrysene	14.092	228	1935993	276.394	ng	96
87) Indeno(1,2,3-cd)pyrene	17.133	276	622815	87.289	ng	# 91
88) Benzo(b)fluoranthene	15.133	252	1644083m	271.918	ng	
89) Benzo(k)fluoranthene	15.151	252	490916m	79.746	ng	
90) Benzo(a)pyrene	15.521	252	1431818m	244.895	ng	
91) Dibenzo(a,h)anthracene	17.139	278	161831	27.768	ng	94
92) Benzo(g,h,i)perylene	17.615	276	645555	107.415	ng	95

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

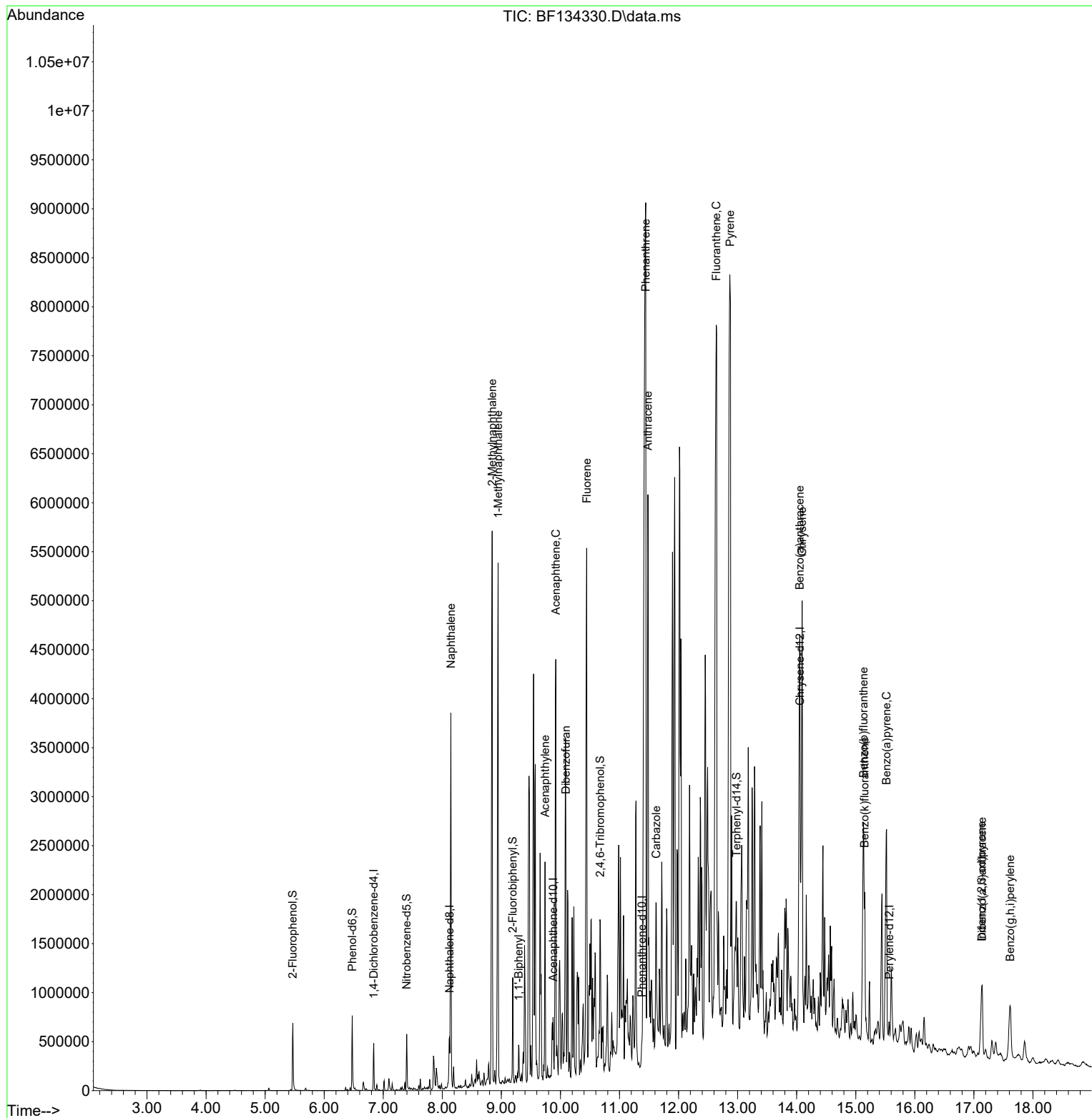
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
Data File : BF134330.D
Acq On : 17 Jul 2023 23:11
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Sample : 03600-01 2X
Misc :
ALS Vial : 17 Sample Multiplier: 1

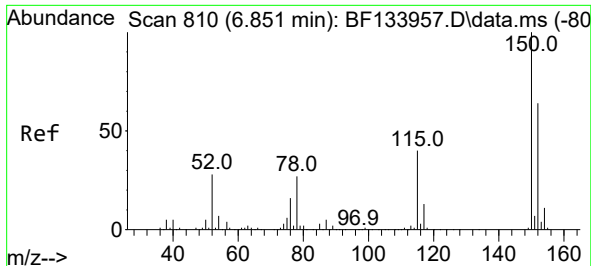
Instrument :
BNA_F
ClientSampleId :
SU-3-071223

Quant Time: Jul 18 01:18:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
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QLast Update : Fri Jul 14 22:51:27 2023
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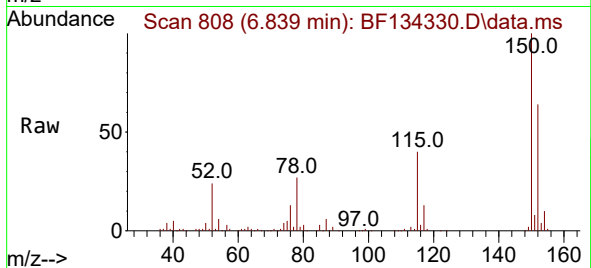
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

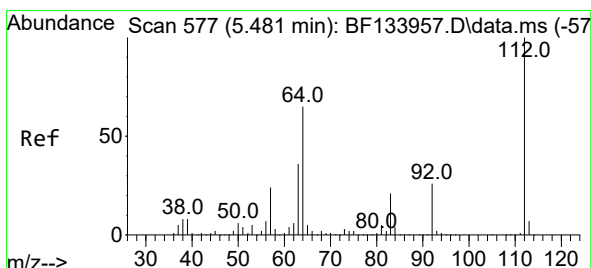
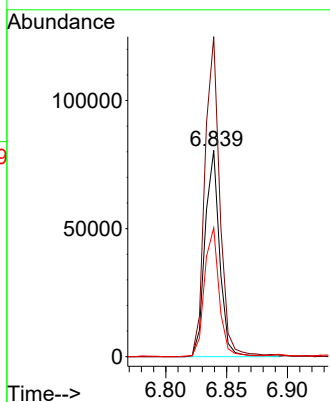
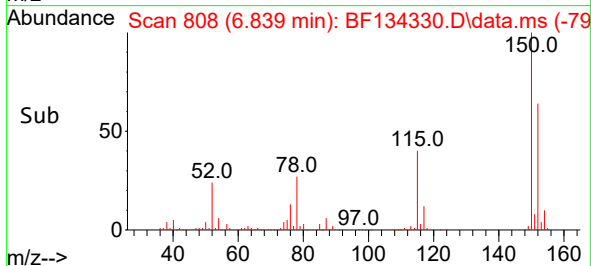
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



Tgt Ion:152 Resp: 67152
Ion Ratio Lower Upper
152 100
150 155.2 124.5 186.7
115 62.4 50.2 75.2

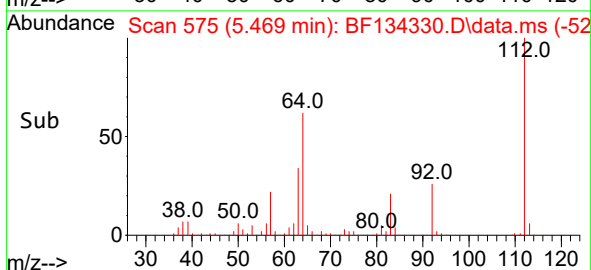
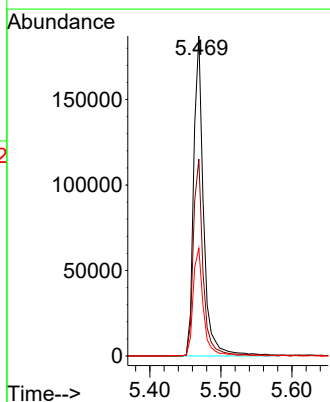
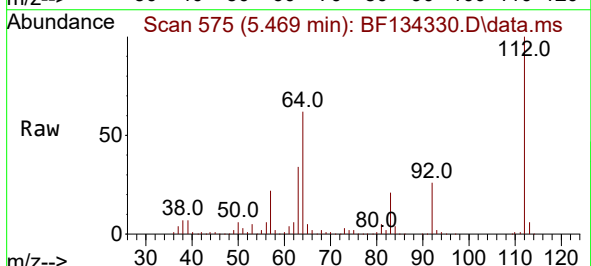
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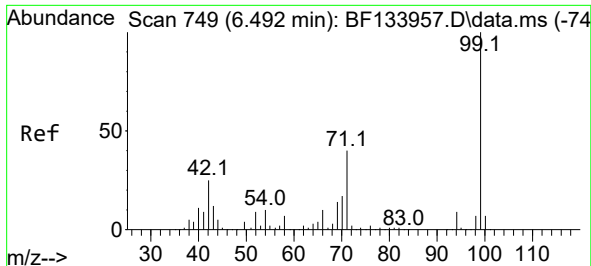
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#5
2-Fluorophenol
Concen: 45.380 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.000 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

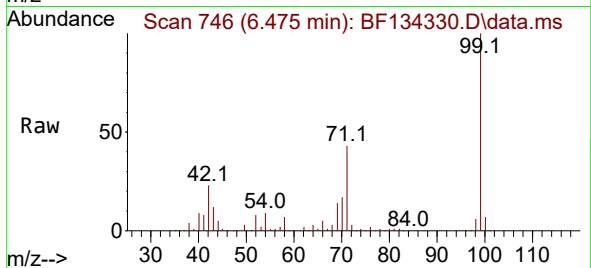
Tgt Ion:112 Resp: 182174
Ion Ratio Lower Upper
112 100
64 61.5 52.1 78.1
63 33.7 28.6 42.8





#7
Phenol-d6
Concen: 43.314 ng
RT: 6.475 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

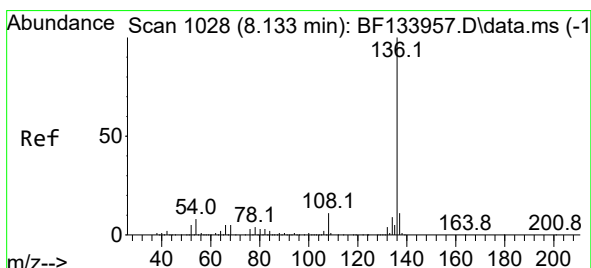
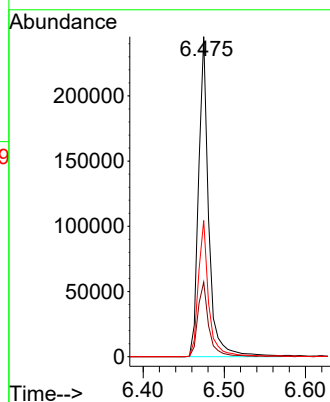
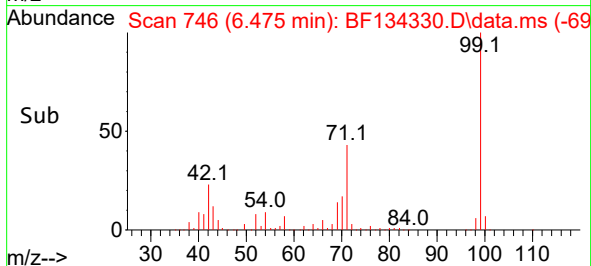
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



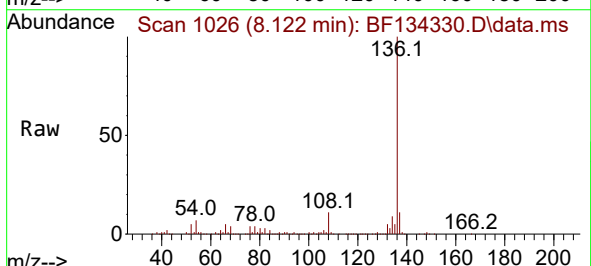
Tgt Ion: 99 Resp: 21384
Ion Ratio Lower Upper
99 100
42 23.3 19.8 29.6
71 42.6 31.9 47.9

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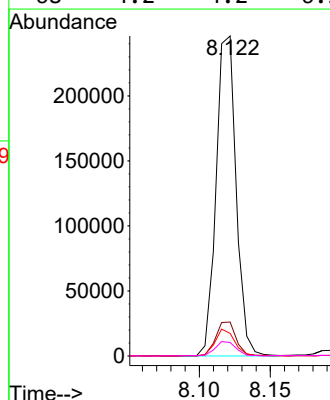
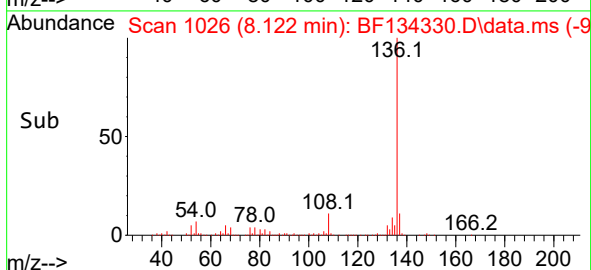
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

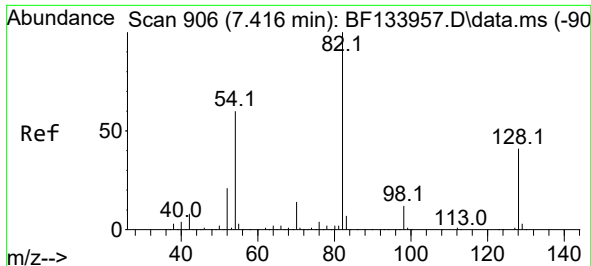


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11



Tgt Ion:136 Resp: 240778
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 7.0 6.5 9.7
68 4.2 4.2 6.2





#23
Nitrobenzene-d5
Concen: 30.686 ng
RT: 7.398 min Scan# 906
Delta R.T. -0.012 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

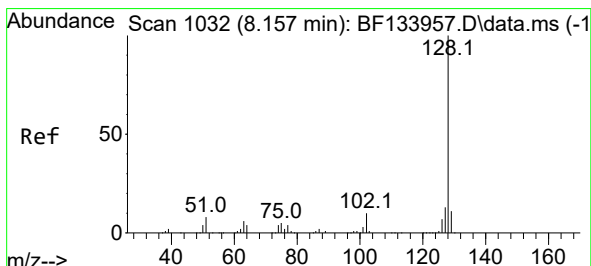
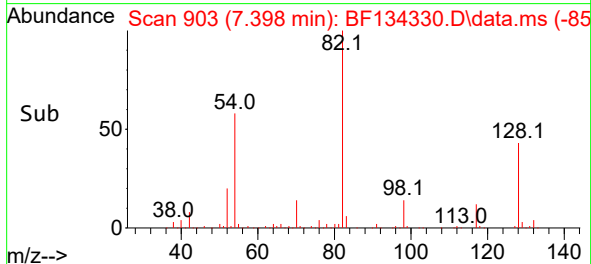
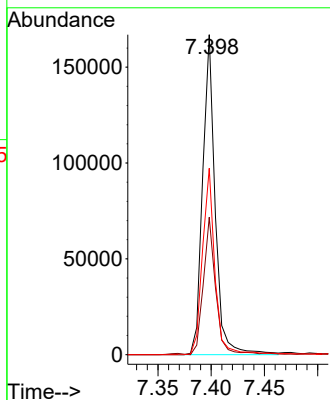
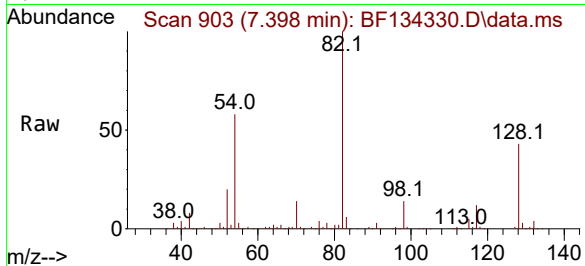
ClientSampleId :

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Tgt Ion: 82 Resp: 137063
Ion Ratio Lower Upper
82 100
128 42.9 32.5 48.7
54 58.3 48.2 72.2

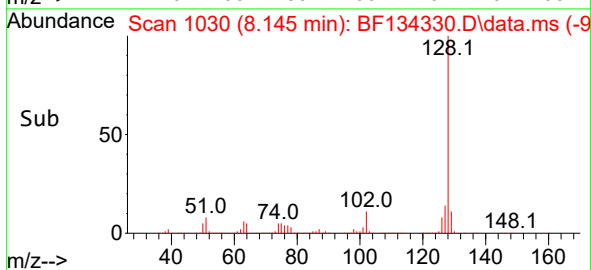
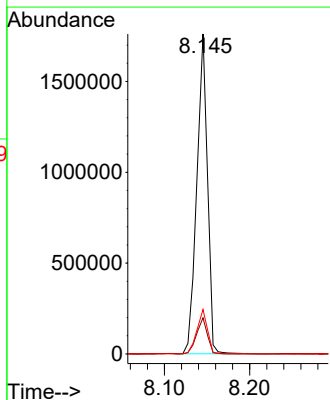
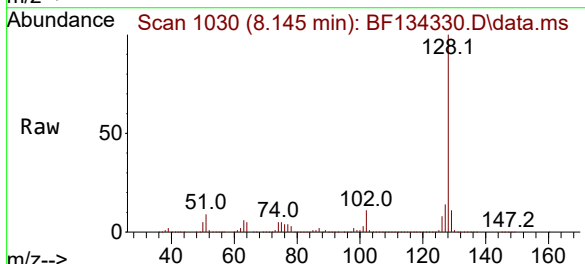
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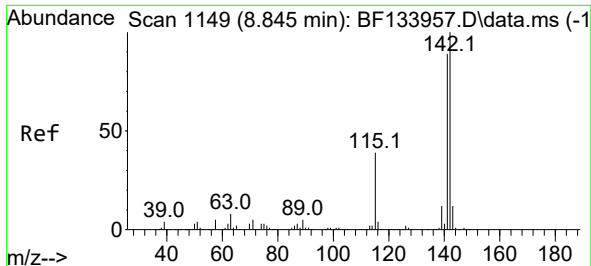
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#31
Naphthalene
Concen: 131.897 ng
RT: 8.145 min Scan# 1030
Delta R.T. -0.000 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Tgt Ion:128 Resp: 1534002
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 13.9 10.6 15.8





#37
2-Methylnaphthalene
Concen: 207.128 ng
RT: 8.845 min Scan# 1149
Delta R.T. 0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

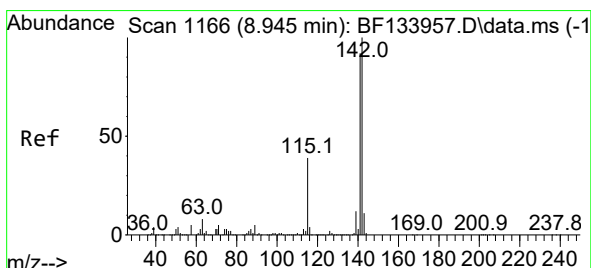
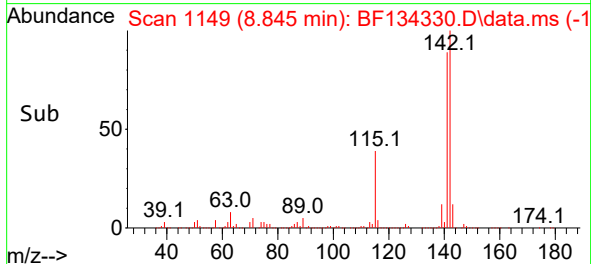
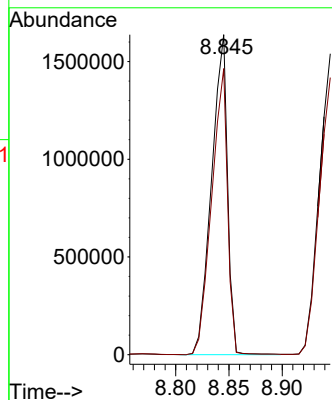
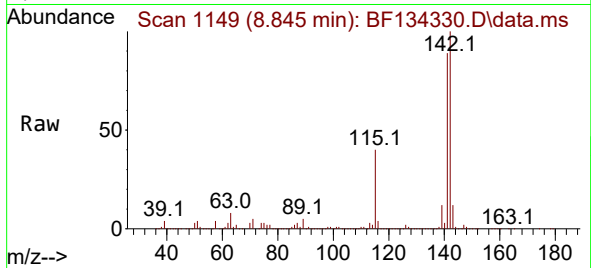
ClientSampleId :

SU-3-071223

Tgt Ion:142 Resp: 170352
Ion Ratio Lower Upper
142 100
141 89.4 71.0 106.4

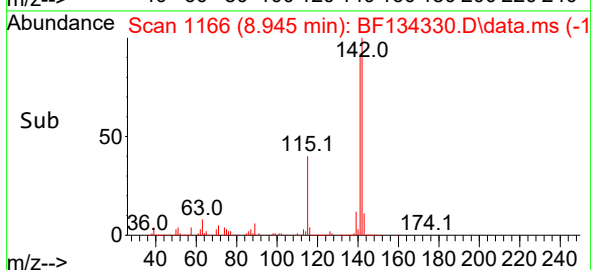
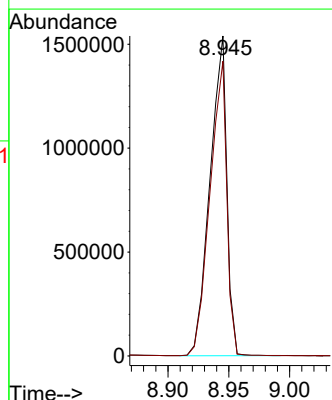
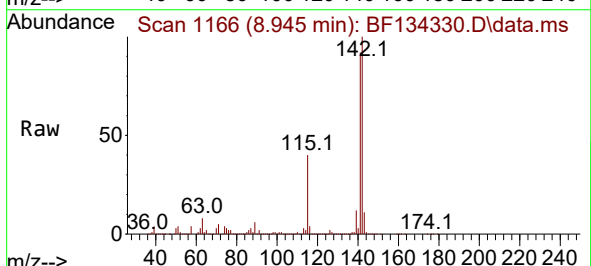
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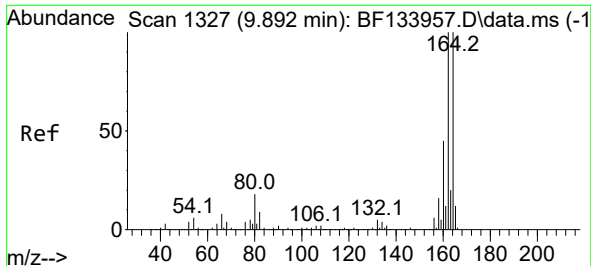
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#38
1-Methylnaphthalene
Concen: 193.908 ng
RT: 8.945 min Scan# 1166
Delta R.T. 0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Tgt Ion:142 Resp: 1482590
Ion Ratio Lower Upper
142 100
141 92.1 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.880 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

ClientSampleId :

SU-3-071223

Tgt Ion:164 Resp: 11100

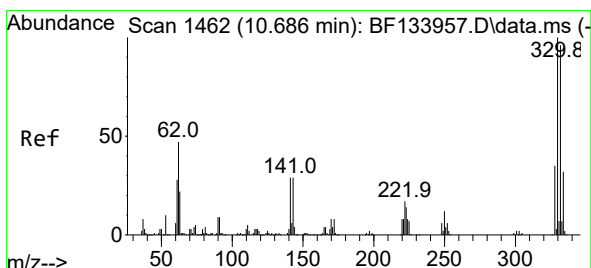
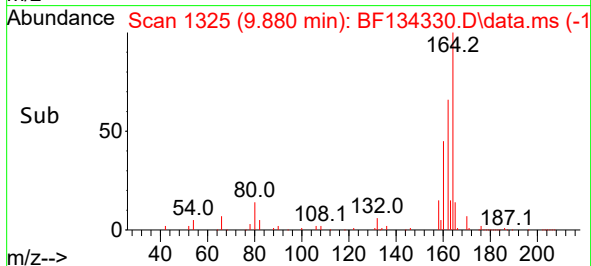
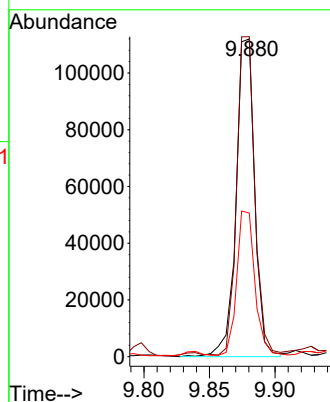
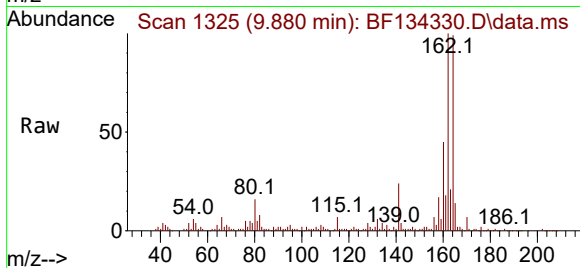
Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.0	120.0
160	45.2	35.9	53.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#42

2,4,6-Tribromophenol

Concen: 42.274 ng

RT: 10.674 min Scan# 1460

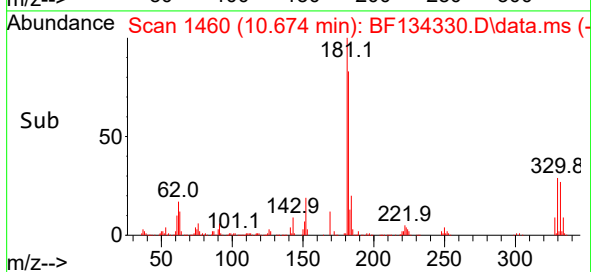
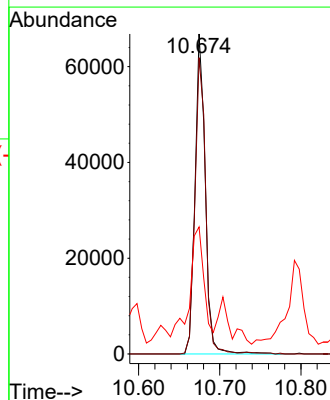
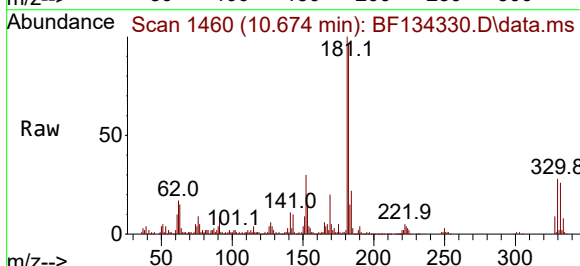
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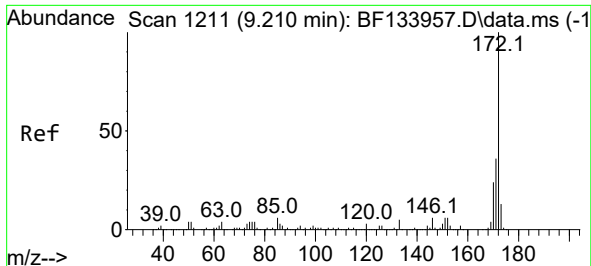
Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Tgt Ion:330 Resp: 58835

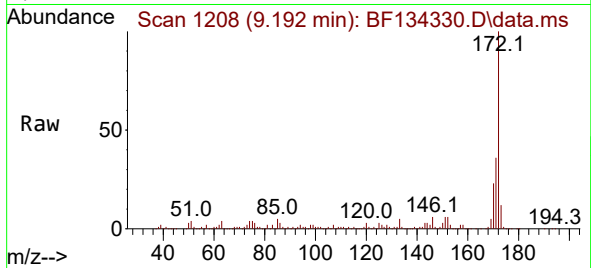
Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.0	115.6
141	45.0	26.3	39.5





#45
2-Fluorobiphenyl
Concen: 34.721 ng
RT: 9.192 min Scan# 1208
Delta R.T. -0.012 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

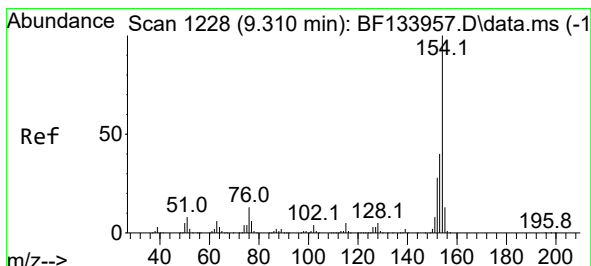
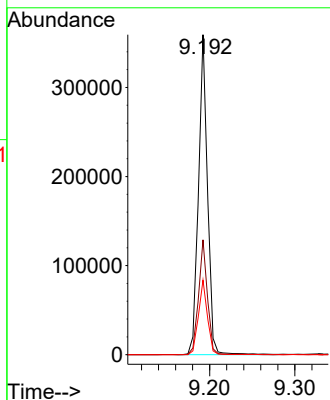
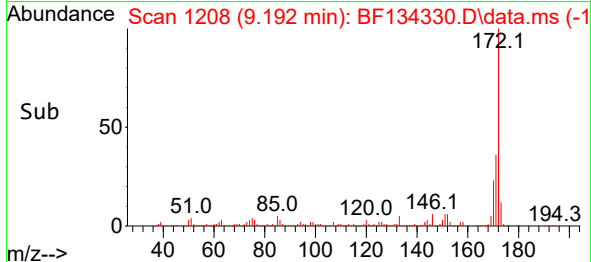
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



Tgt Ion:172 Resp: 265092
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 23.3 19.4 29.0

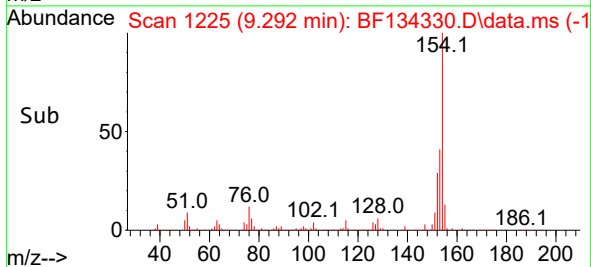
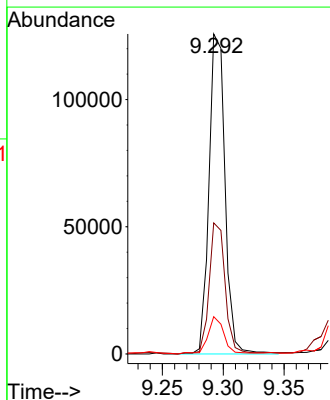
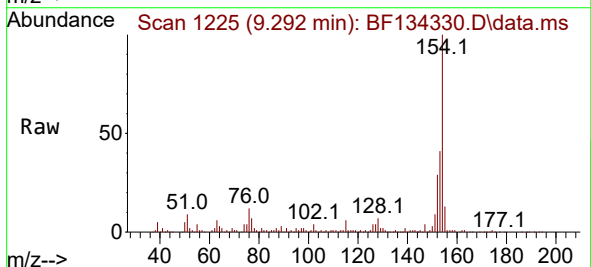
Manual Integrations
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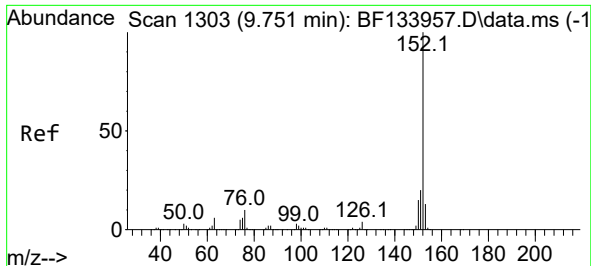
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#46
1,1'-Biphenyl
Concen: 12.987 ng
RT: 9.292 min Scan# 1225
Delta R.T. -0.012 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Tgt Ion:154 Resp: 115636
Ion Ratio Lower Upper
154 100
153 41.0 19.8 59.8
76 11.7 0.0 32.9





#49
Acenaphthylene
Concen: 16.030 ng
RT: 9.739 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

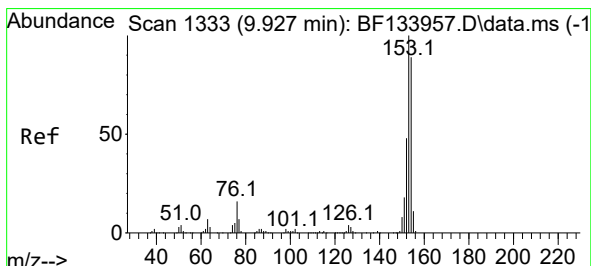
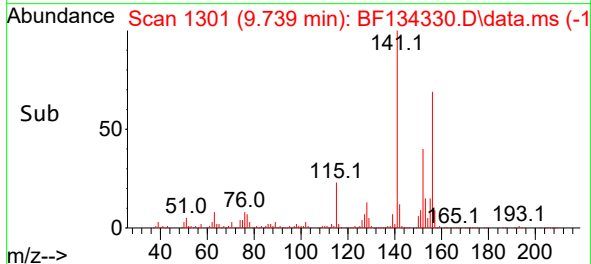
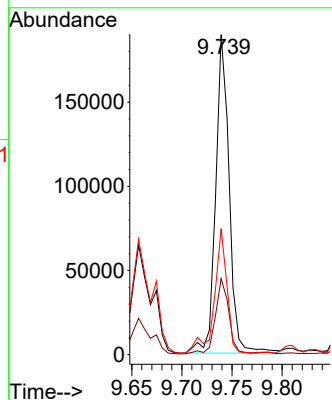
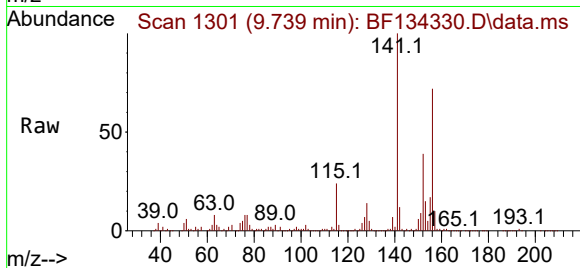
ClientSampleId :

SU-3-071223

Tgt Ion:152 Resp: 17839
Ion Ratio Lower Upper
152 100
151 23.8 16.2 24.2
153 39.4 10.8 16.2

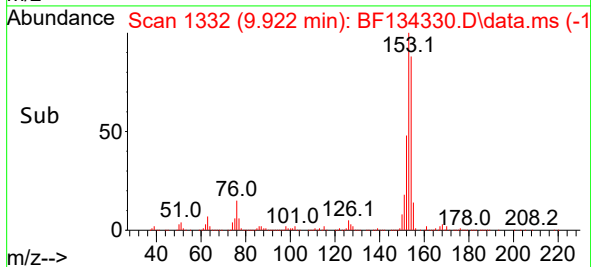
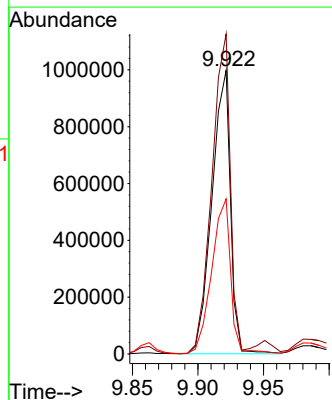
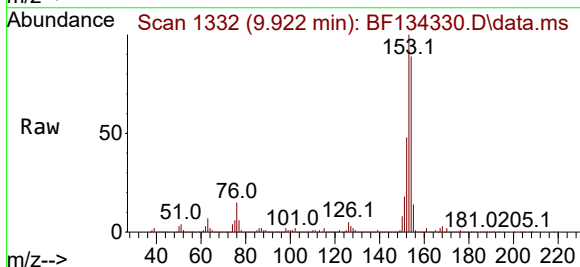
Manual Integrations
APPROVED

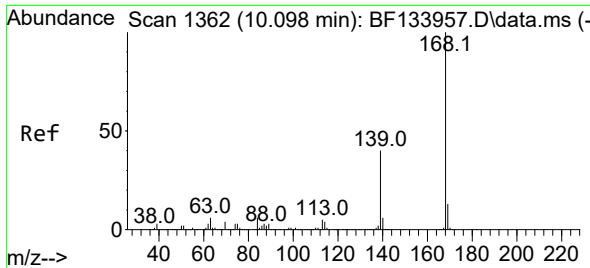
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#52
Acenaphthene
Concen: 151.510 ng
RT: 9.922 min Scan# 1332
Delta R.T. 0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

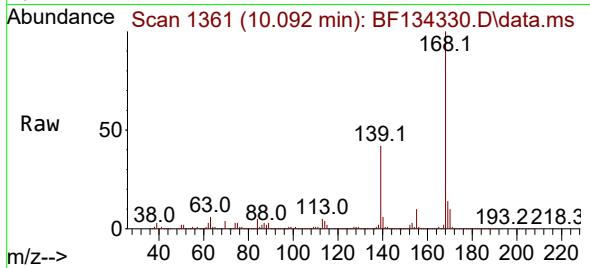
Tgt Ion:154 Resp: 978405
Ion Ratio Lower Upper
154 100
153 112.9 89.4 134.2
152 54.7 42.8 64.2





#55
Dibenzenofuran
Concen: 80.552 ng
RT: 10.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

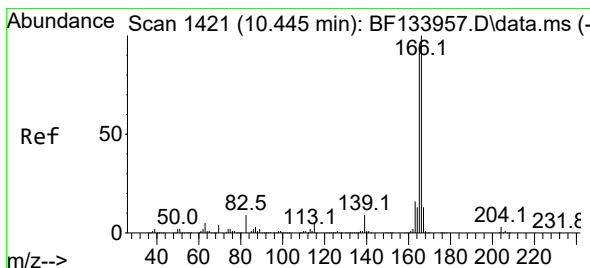
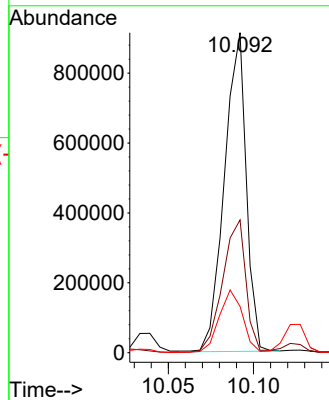
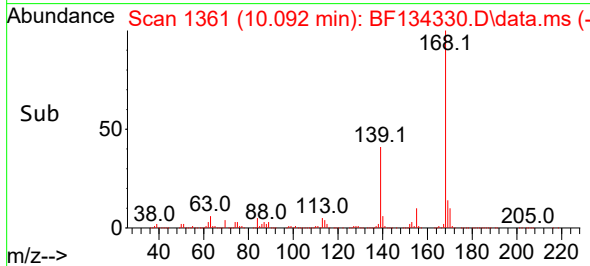
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



Tgt Ion:168 Resp: 81295
Ion Ratio Lower Upper
168 100
139 41.5 32.0 48.0
169 14.5 10.6 16.0

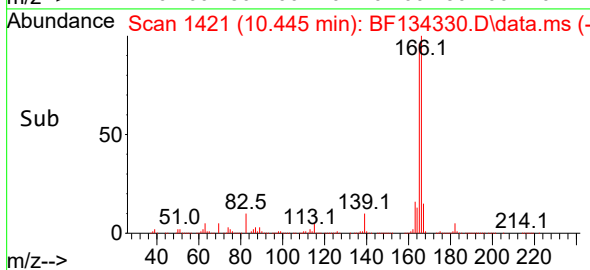
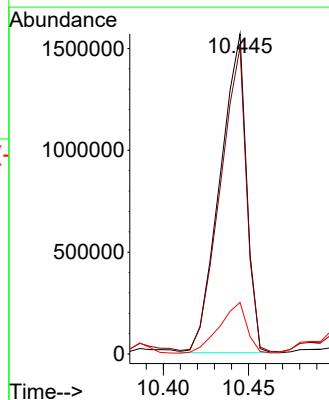
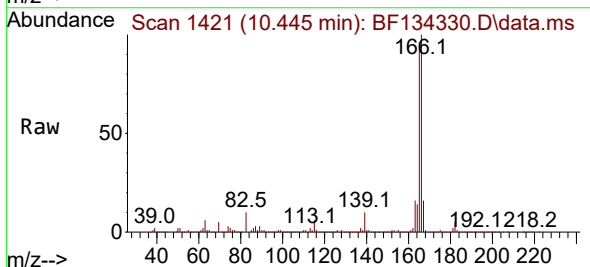
Manual Integrations
APPROVED

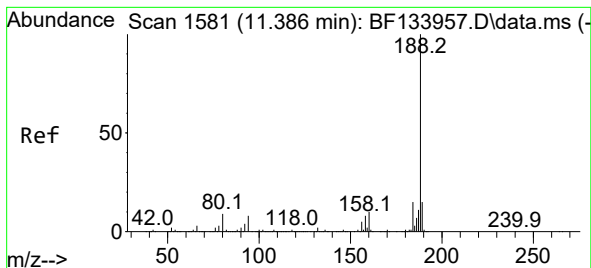
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#58
Fluorene
Concen: 216.000 ng
RT: 10.445 min Scan# 1421
Delta R.T. 0.012 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

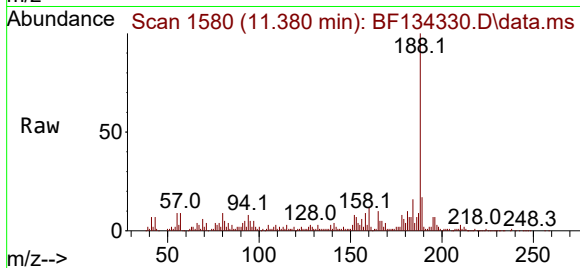
Tgt Ion:166 Resp: 1695968
Ion Ratio Lower Upper
166 100
165 96.0 75.0 112.4
167 16.1 10.6 15.8#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

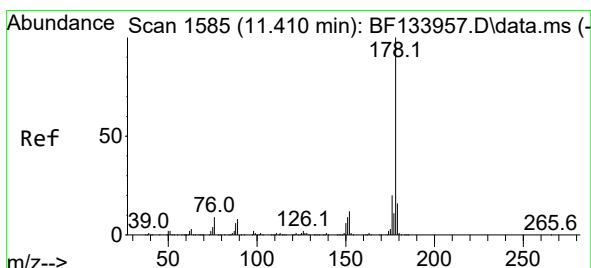
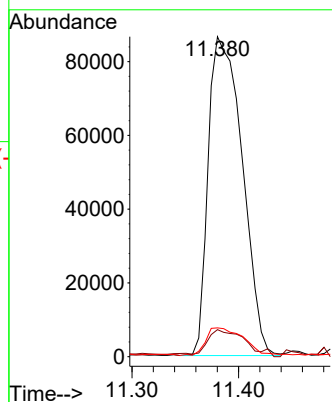
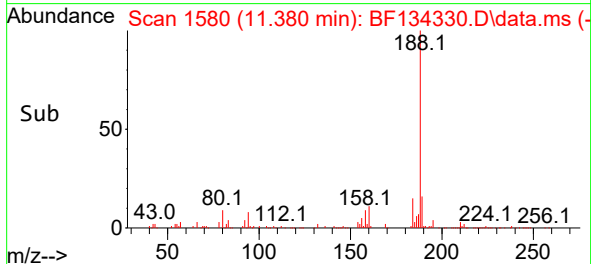
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



Tgt Ion:188 Resp: 19176
Ion Ratio Lower Upper
188 100
94 8.5 6.4 9.6
80 9.0 7.3 10.9

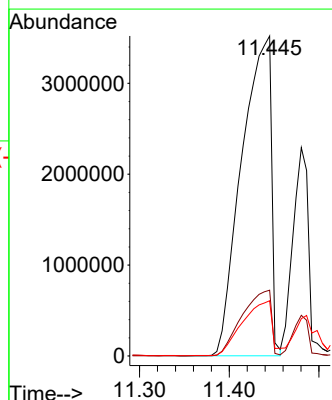
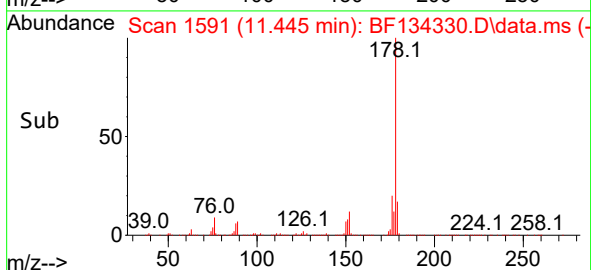
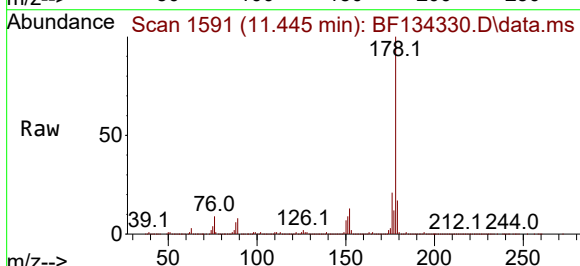
Manual Integrations
APPROVED

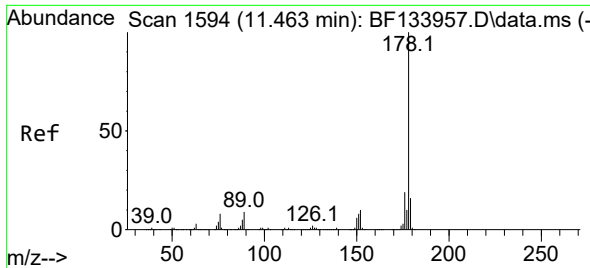
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#71
Phenanthrene
Concen: 831.793 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.041 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

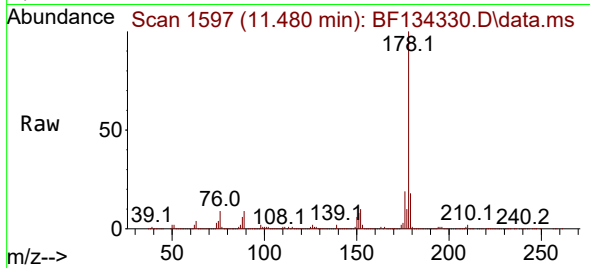
Tgt Ion:178 Resp: 8029941
Ion Ratio Lower Upper
178 100
176 20.5 16.0 24.0
179 17.3 12.4 18.6





#72
 Anthracene
 Concen: 263.465 ng
 RT: 11.480 min Scan# 1597
 Delta R.T. 0.023 min
 Lab File: BF134330.D
 Acq: 17 Jul 2023 23:11

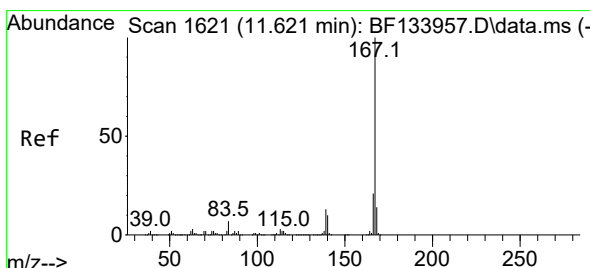
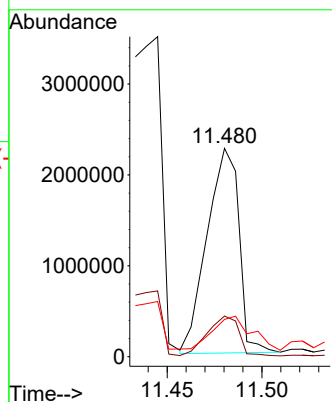
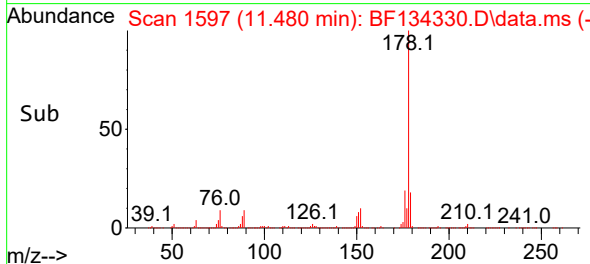
Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223



Tgt Ion:178 Resp: 264546
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.3 22.9
 179 17.9 12.4 18.6

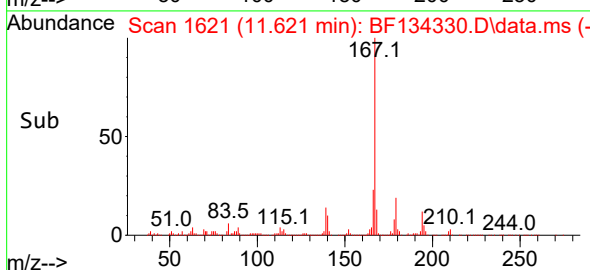
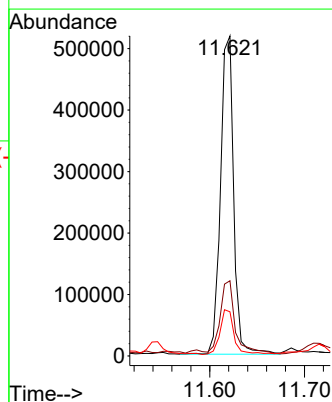
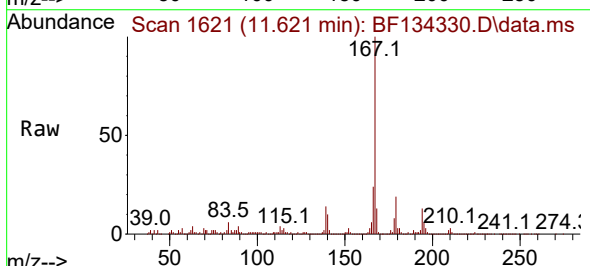
Manual Integrations
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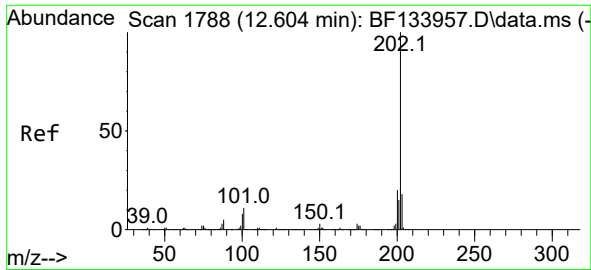
Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023



#73
 Carbazole
 Concen: 54.748 ng
 RT: 11.621 min Scan# 1621
 Delta R.T. 0.006 min
 Lab File: BF134330.D
 Acq: 17 Jul 2023 23:11

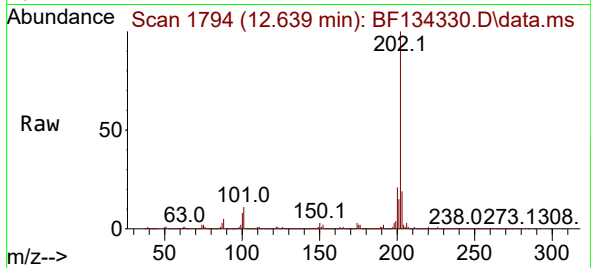
Tgt Ion:167 Resp: 503168
 Ion Ratio Lower Upper
 167 100
 166 23.5 17.0 25.6
 139 13.8 10.4 15.6





#75
Fluoranthene
Concen: 585.907 ng
RT: 12.639 min Scan# 1794
Delta R.T. 0.041 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

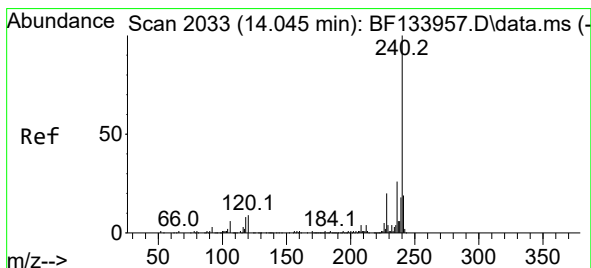
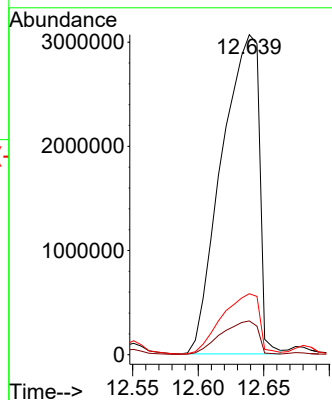
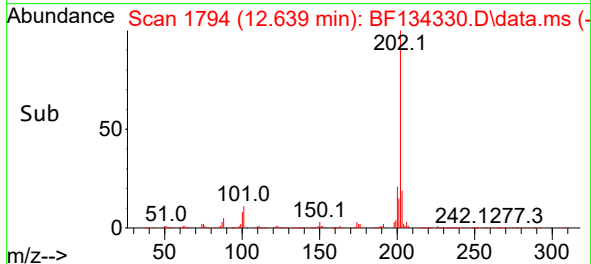
Instrument :
BNA_F
ClientSampleId :
SU-3-071223



Tgt Ion:202 Resp: 611488
Ion Ratio Lower Upper
202 100
101 10.6 0.0 31.0
203 19.1 0.0 37.6

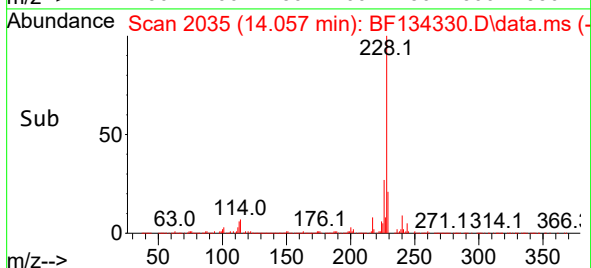
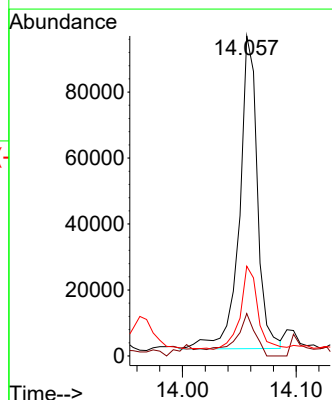
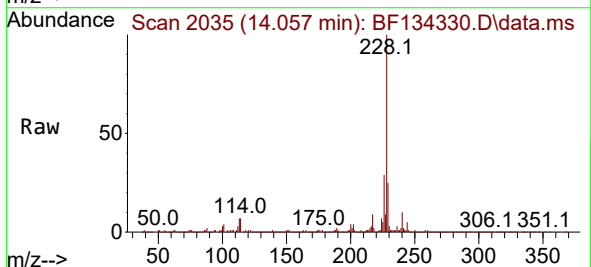
Manual Integrations
APPROVED

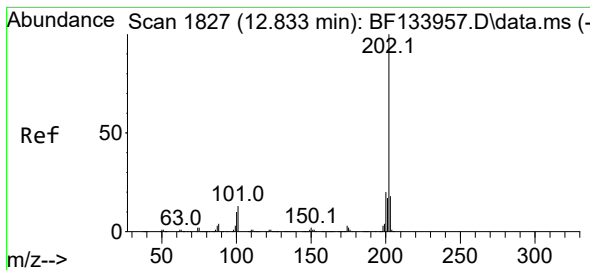
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2035
Delta R.T. 0.018 min
Lab File: BF134330.D
Acq: 17 Jul 2023 23:11

Tgt Ion:240 Resp: 104277
Ion Ratio Lower Upper
240 100
120 13.3 7.4 11.0#
236 28.0 21.0 31.6





#78

Pyrene

Concen: 662.662 ng m

RT: 12.874 min Scan# 1834

Delta R.T. 0.041 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

ClientSampleId :

SU-3-071223

Tgt Ion:202 Resp: 6430728

Ion Ratio Lower Upper

202 100

200 21.1 16.1 24.1

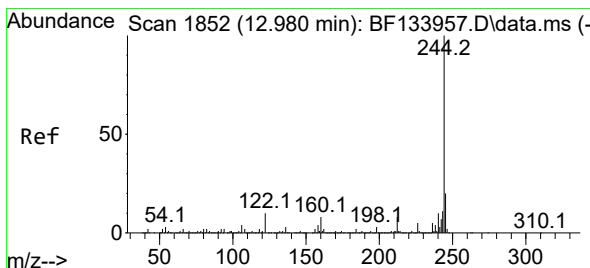
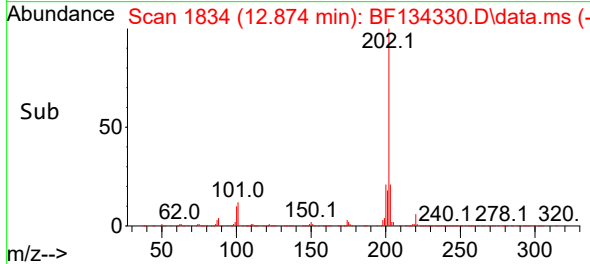
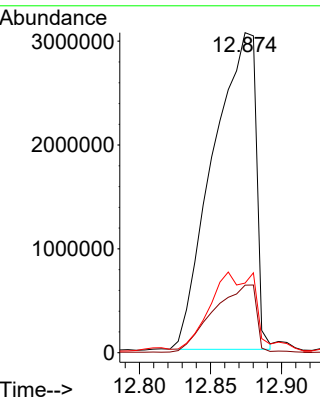
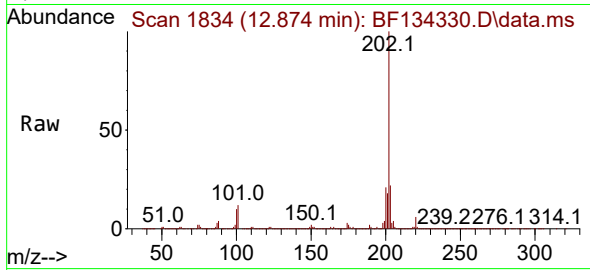
203 21.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#79

Terphenyl-d14

Concen: 41.720 ng

RT: 12.980 min Scan# 1852

Delta R.T. 0.006 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

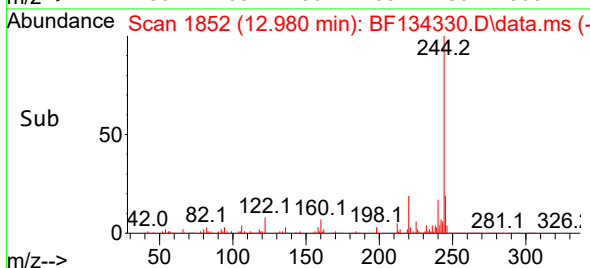
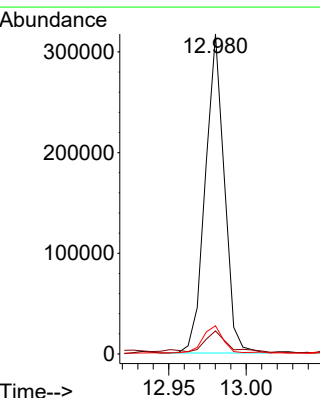
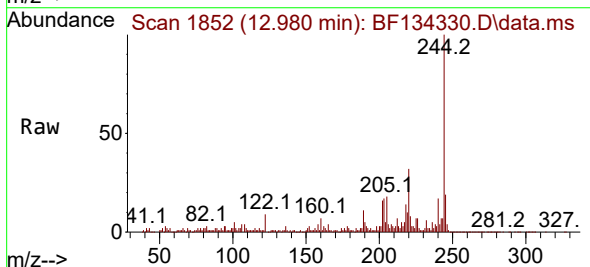
Tgt Ion:244 Resp: 270314

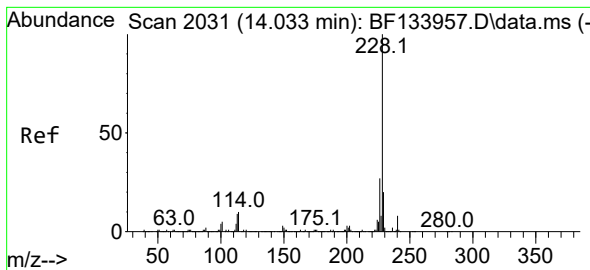
Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 8.8 8.3 12.5





#81

Benzo(a)anthracene

Concen: 331.048 ng

RT: 14.051 min Scan# 2041

Delta R.T. 0.023 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

ClientSampleId :

SU-3-071223

Tgt Ion:228 Resp: 2394074

Ion Ratio Lower Upper

228 100

226 28.5 22.0 33.0

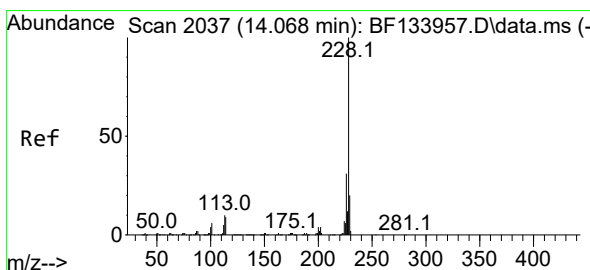
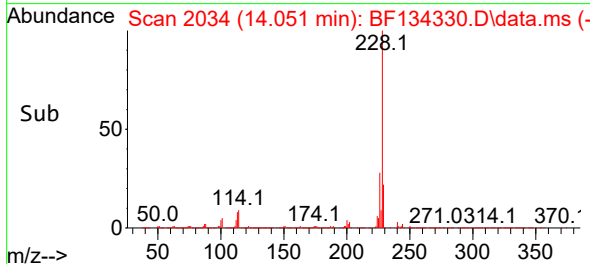
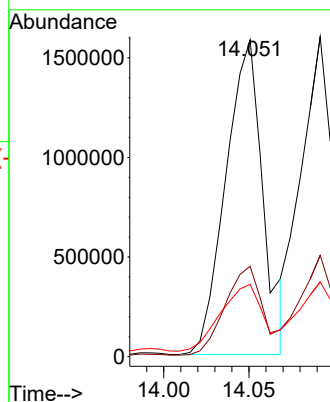
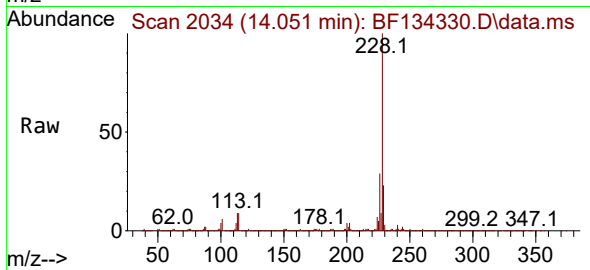
229 22.8 16.3 24.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#83

Chrysene

Concen: 276.394 ng

RT: 14.092 min Scan# 2041

Delta R.T. 0.023 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

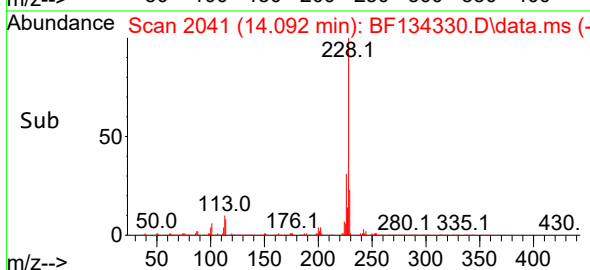
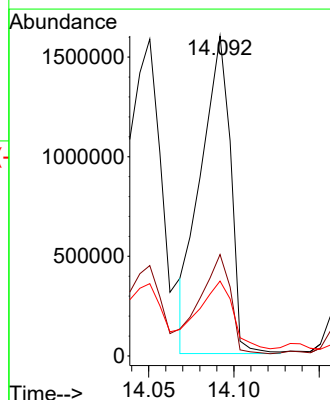
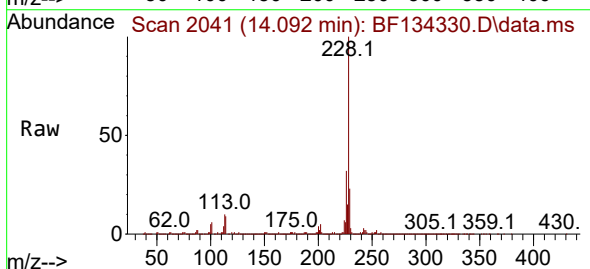
Tgt Ion:228 Resp: 1935993

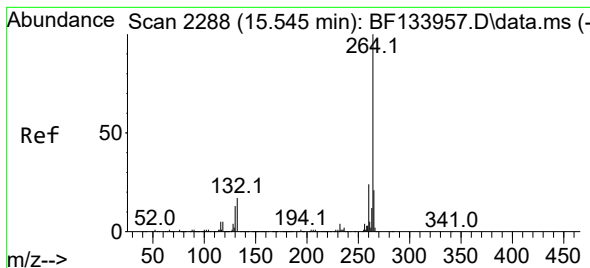
Ion Ratio Lower Upper

228 100

226 31.7 24.4 36.6

229 23.4 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

ClientSampleId :

SU-3-071223

Tgt Ion:264 Resp: 102820

Ion Ratio Lower Upper

264 100

260 24.9 19.5 29.3

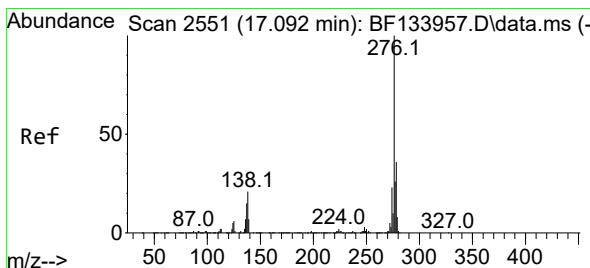
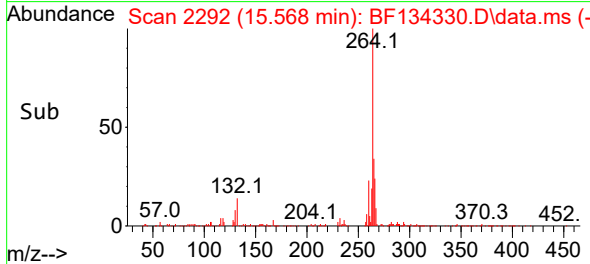
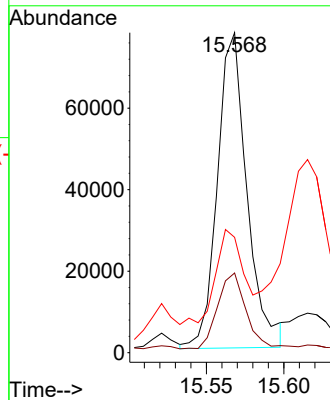
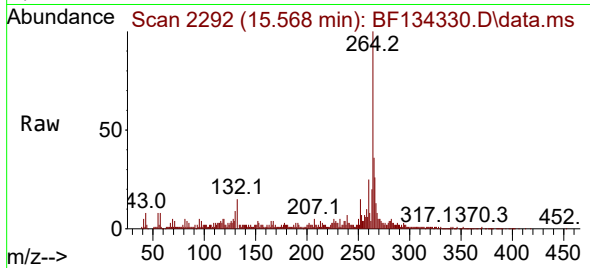
265 36.0 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 87.289 ng

RT: 17.133 min Scan# 2558

Delta R.T. 0.035 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

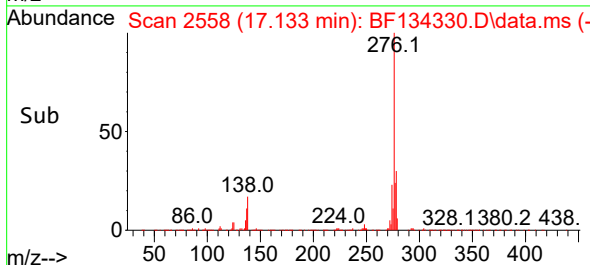
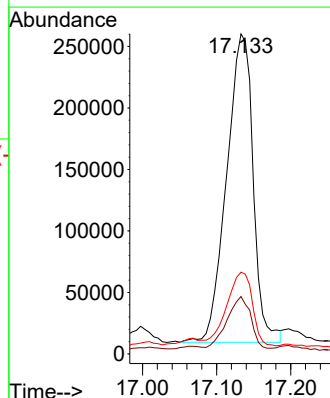
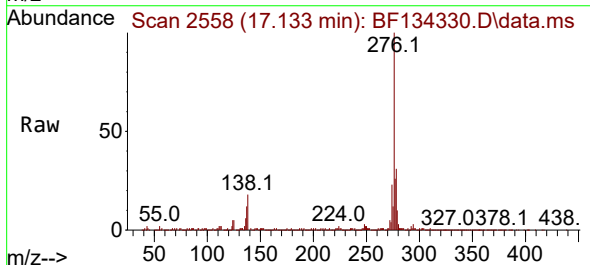
Tgt Ion:276 Resp: 622815

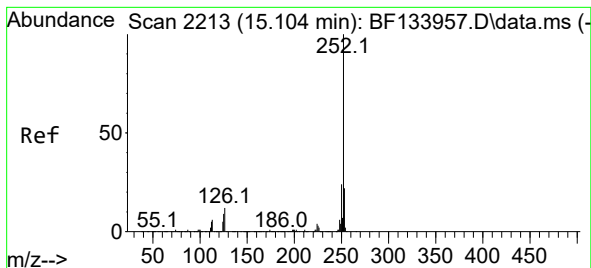
Ion Ratio Lower Upper

276 100

138 16.1 18.7 28.1#

277 23.4 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 271.918 ng m

RT: 15.133 min Scan# 2218

Delta R.T. 0.029 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNF

ClientSampleId :

SU-3-071223

Tgt Ion:252 Resp: 164408

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

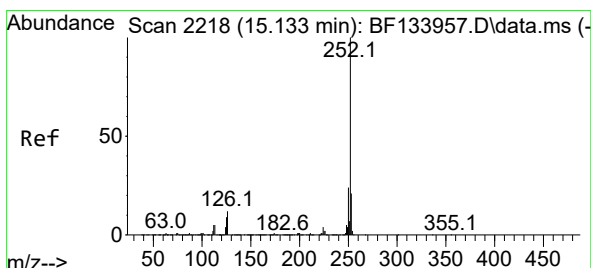
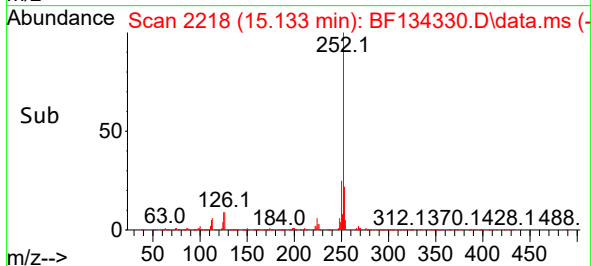
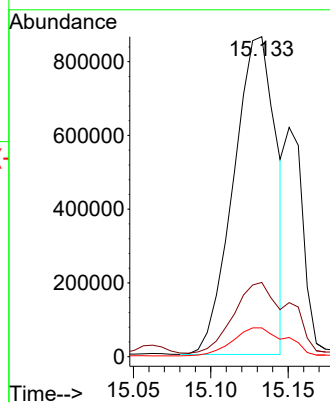
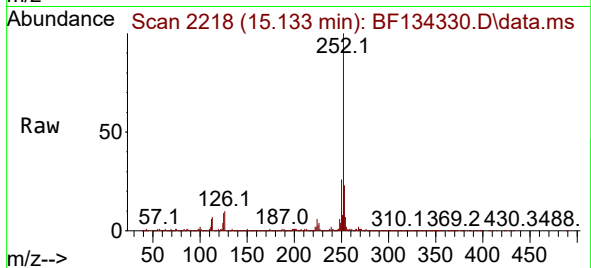
125 9.0 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#89

Benzo(k)fluoranthene

Concen: 79.746 ng m

RT: 15.151 min Scan# 2221

Delta R.T. 0.018 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

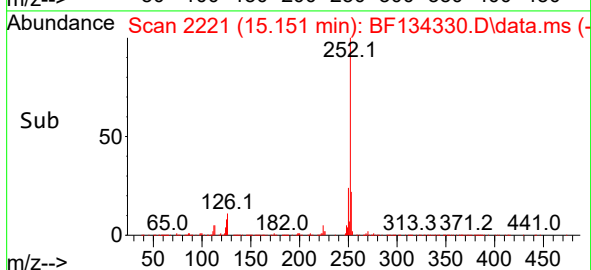
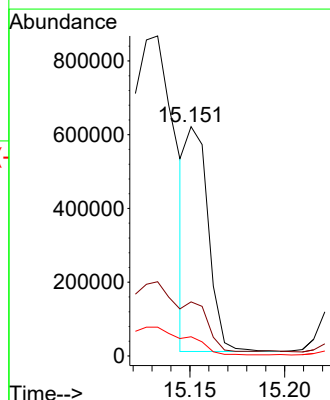
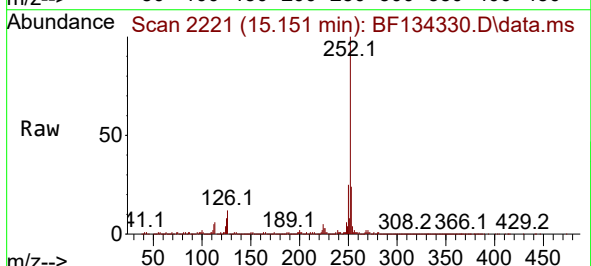
Tgt Ion:252 Resp: 490916

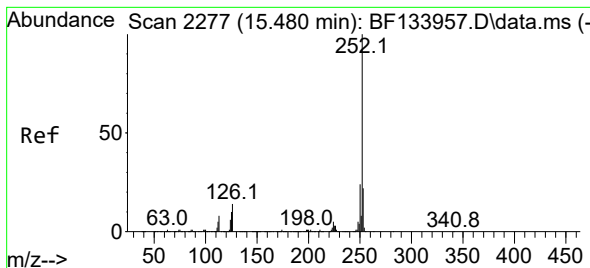
Ion Ratio Lower Upper

252 100

253 23.6 16.9 25.3

125 8.4 7.4 11.2





#90

Benzo(a)pyrene

Concen: 244.895 ng m

RT: 15.521 min Scan# 21

Delta R.T. 0.041 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

Instrument :

BNA_F

ClientSampleId :

SU-3-071223

Tgt Ion:252 Resp: 1431818

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

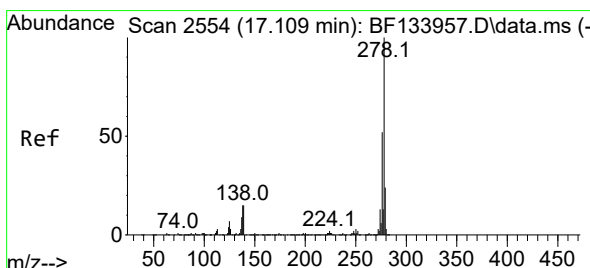
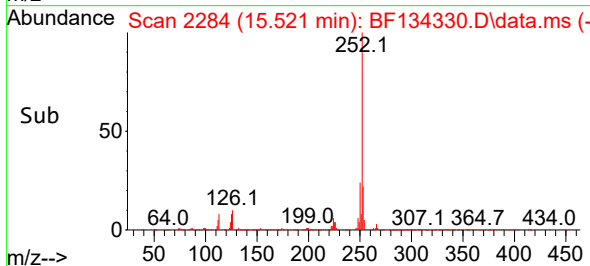
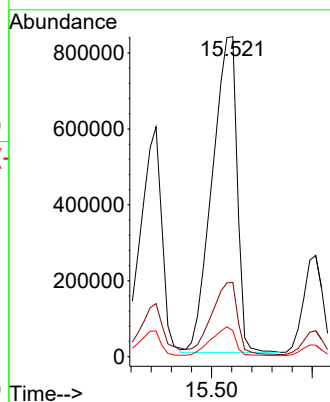
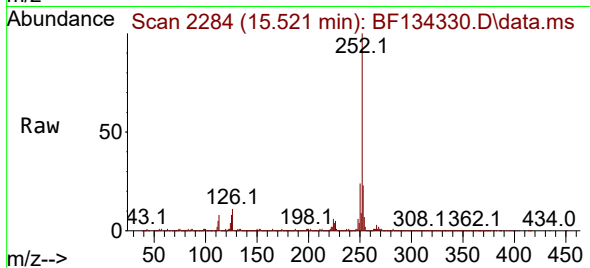
125 8.2 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#91

Dibenzo(a,h)anthracene

Concen: 27.768 ng

RT: 17.139 min Scan# 2559

Delta R.T. 0.029 min

Lab File: BF134330.D

Acq: 17 Jul 2023 23:11

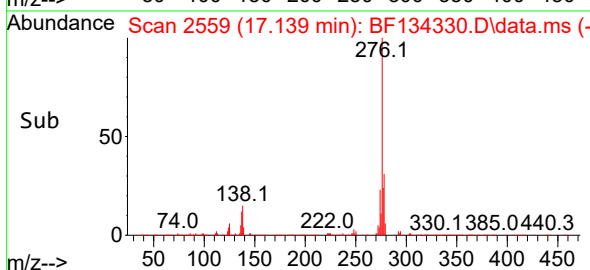
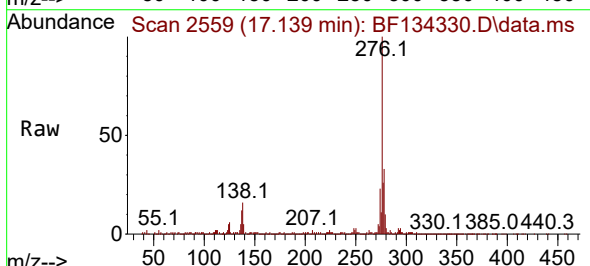
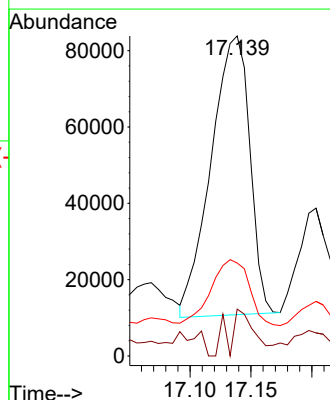
Tgt Ion:278 Resp: 161831

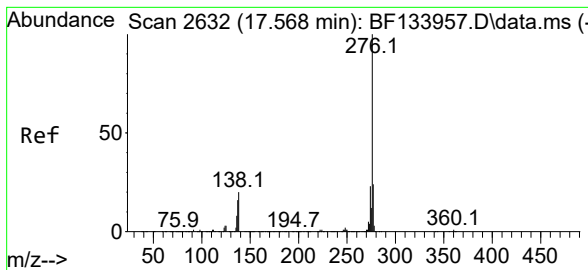
Ion Ratio Lower Upper

278 100

139 14.7 12.2 18.4

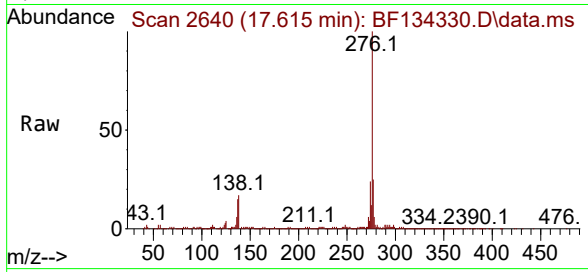
279 29.1 19.4 29.2





#92
 Benzo(g,h,i)perylene
 Concen: 107.415 ng
 RT: 17.615 min Scan# 20
 Delta R.T. 0.047 min
 Lab File: BF134330.D
 Acq: 17 Jul 2023 23:11

Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223



Tgt Ion:276 Resp: 64555
 Ion Ratio Lower Upper
 276 100
 277 25.3 19.0 28.6
 138 16.6 16.2 24.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

