

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072723\
 Data File : BF134503.D
 Acq On : 27 Jul 2023 13:38
 Operator : CG\JU
 Sample : 03640-31DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP11DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/28/2023
 Supervised By :mohammad ahmed 07/28/2023

Quant Time: Jul 27 13:58:51 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 27 12:16:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	53265	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	214099	20.000	ng	# 0.00
39) Acenaphthene-d10	9.857	164	111368	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	218390	20.000	ng	0.00
76) Chrysene-d12	14.016	240	138082	20.000	ng	0.00
86) Perylene-d12	15.510	264	158223	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	90136	27.959	ng	0.00
7) Phenol-d6	6.469	99	59980	15.185	ng	0.00
23) Nitrobenzene-d5	7.387	82	40455	9.560	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	23238	14.686	ng	-0.01
45) 2-Fluorobiphenyl	9.175	172	89049	10.497	ng	0.00
79) Terphenyl-d14	12.945	244	83759	10.589	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	42138	3.955	ng	98
37) 2-Methylnaphthalene	8.816	142	20281	2.739	ng	95
38) 1-Methylnaphthalene	8.916	142	17975	2.617	ng	95
55) Dibenzofuran	10.063	168	24899	2.396	ng	# 96
58) Fluorene	10.410	166	37769	4.504	ng	99
71) Phenanthrene	11.381	178	468882	41.092	ng	100
72) Anthracene	11.428	178	106471	9.041	ng	99
73) Carbazole	11.592	167	25131	2.266	ng	99
75) Fluoranthene	12.575	202	547921	41.202	ng	99
78) Pyrene	12.810	202	460978	41.986	ng	99
81) Benzo(a)anthracene	14.004	228	235480	24.443	ng	99
83) Chrysene	14.039	228	186167	20.204	ng	99
87) Indeno(1,2,3-cd)pyrene	17.045	276	93113	9.008	ng	99
88) Benzo(b)fluoranthene	15.069	252	240485m	24.295	ng	
89) Benzo(k)fluoranthene	15.098	252	87245m	8.962	ng	
90) Benzo(a)pyrene	15.445	252	178824	19.545	ng	# 97
91) Dibenzo(a,h)anthracene	17.045	278	24502	2.935	ng	93
92) Benzo(g,h,i)perylene	17.510	276	80676	9.412	ng	98

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

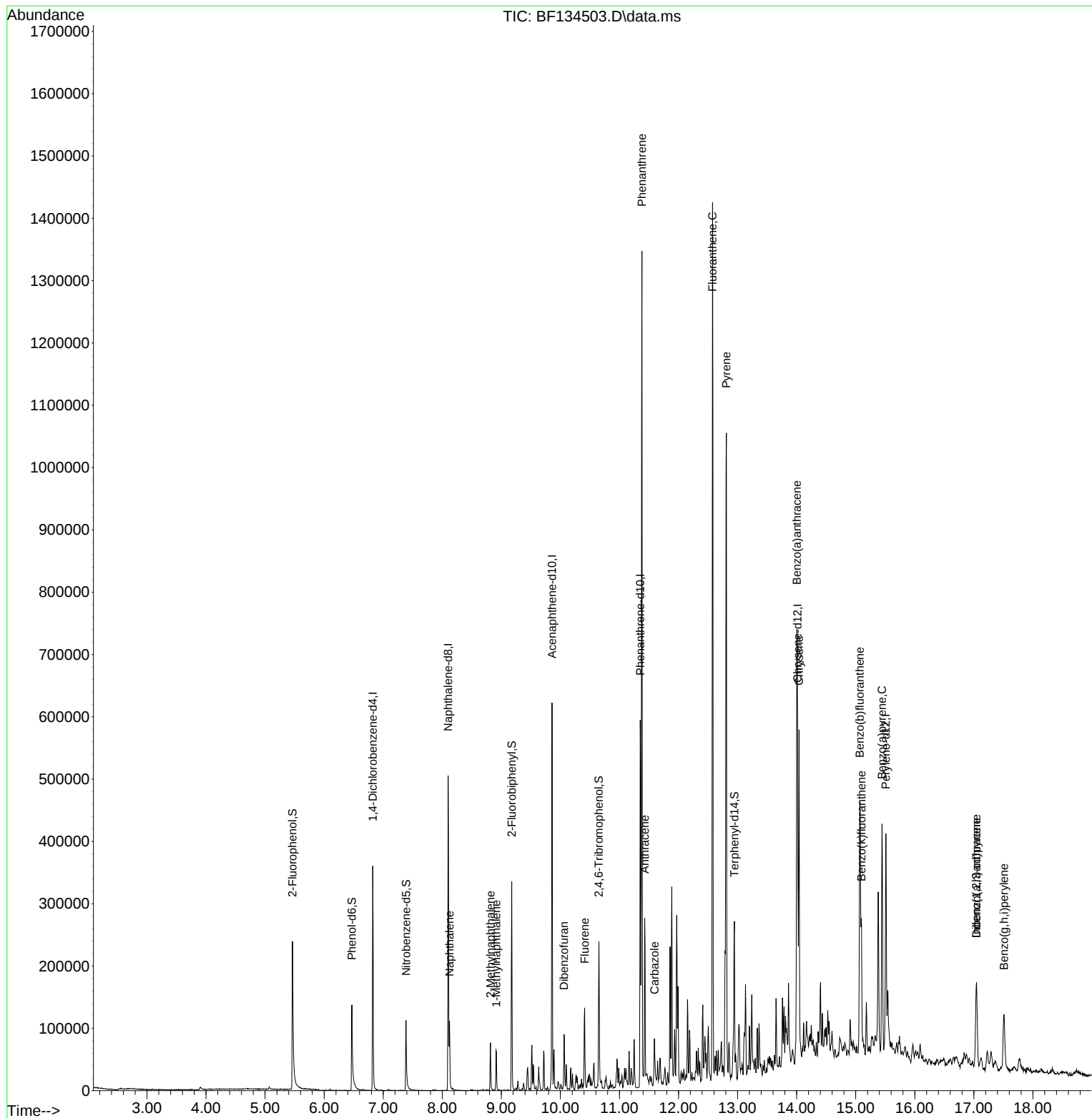
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072723\
Data File : BF134503.D
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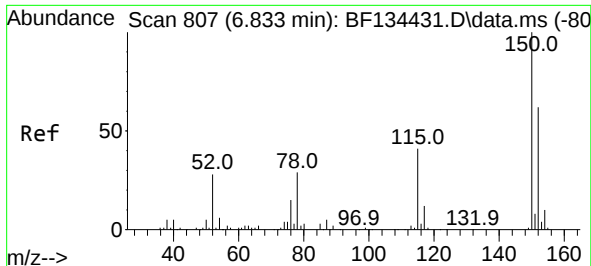
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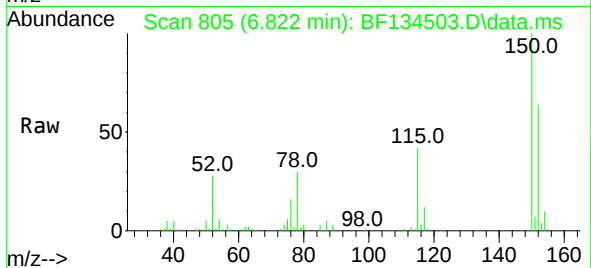
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 807
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

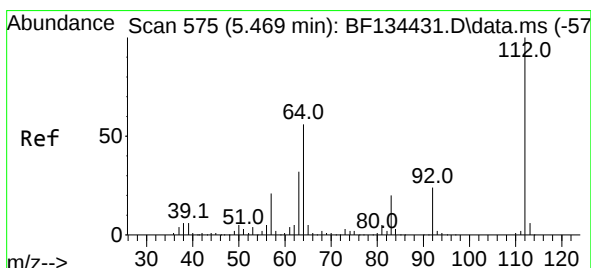
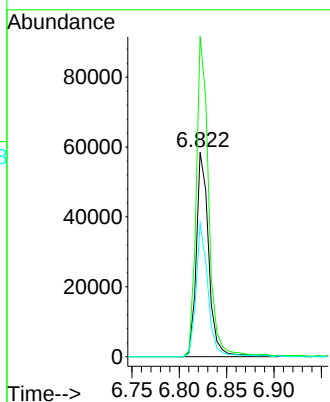
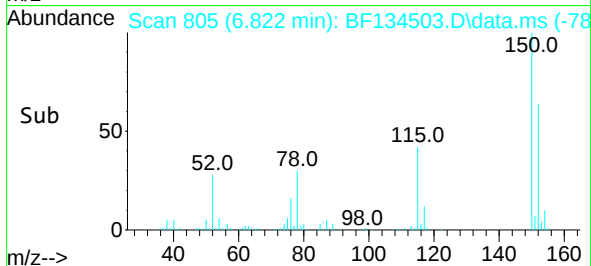
Instrument :
BNA_F
ClientSampleId :
TP11DL



Tgt Ion:152 Resp: 5326
Ion Ratio Lower Upper
152 100
150 156.6 128.3 192.5
115 65.2 52.4 78.6

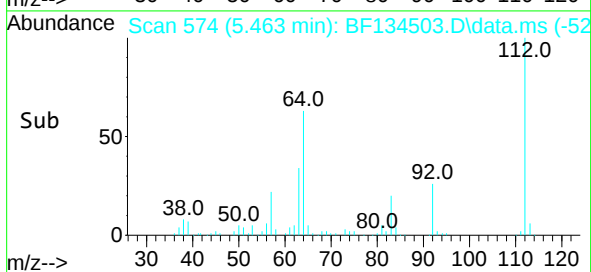
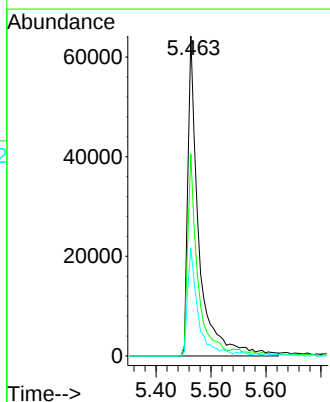
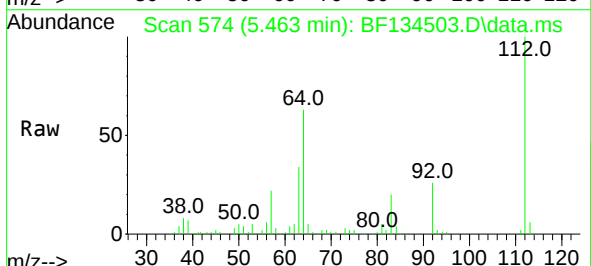
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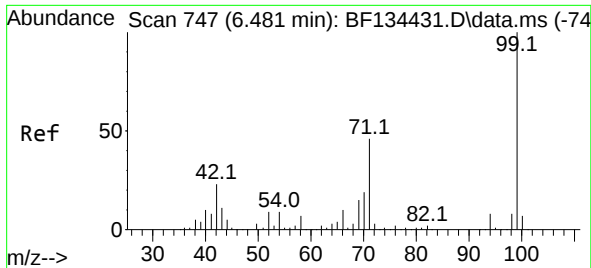
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#5
2-Fluorophenol
Concen: 27.959 ng
RT: 5.463 min Scan# 574
Delta R.T. 0.000 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

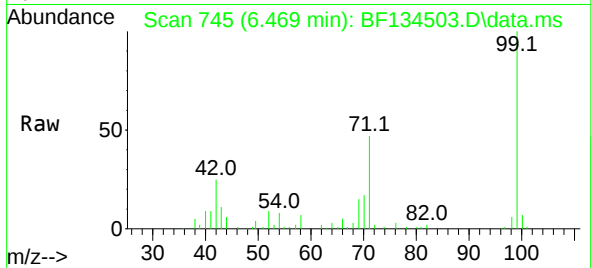
Tgt Ion:112 Resp: 90136
Ion Ratio Lower Upper
112 100
64 63.2 44.9 67.3
63 33.7 25.4 38.0





#7
Phenol-d6
Concen: 15.185 ng
RT: 6.469 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

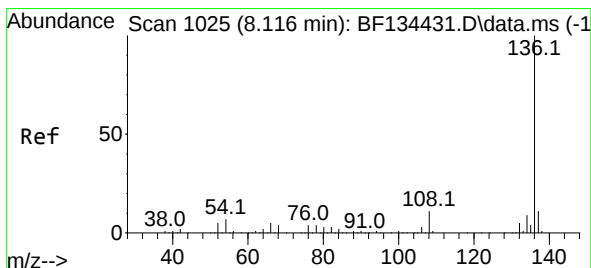
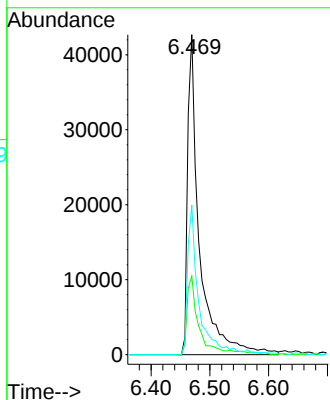
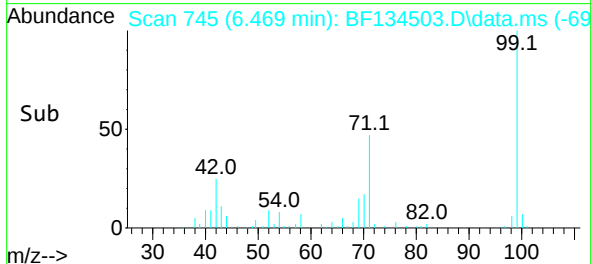
Instrument :
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ClientSampleId :
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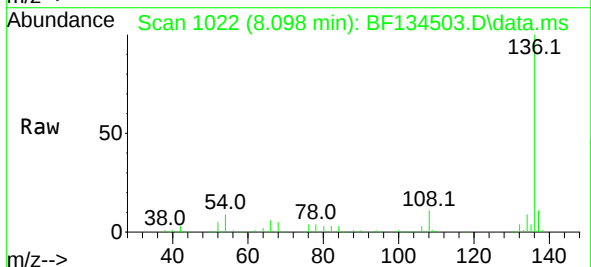
Tgt Ion: 99 Resp: 59980
Ion Ratio Lower Upper
99 100
42 24.6 18.7 28.1
71 46.8 36.4 54.6

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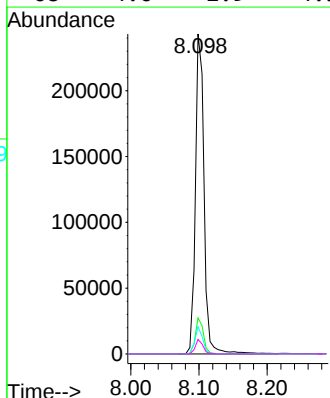
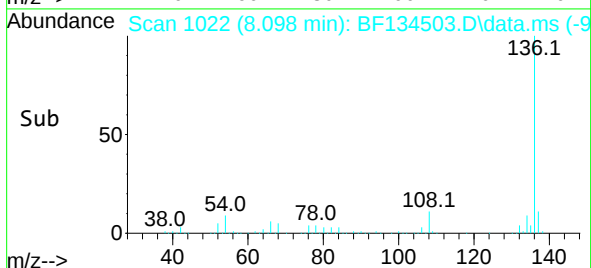
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

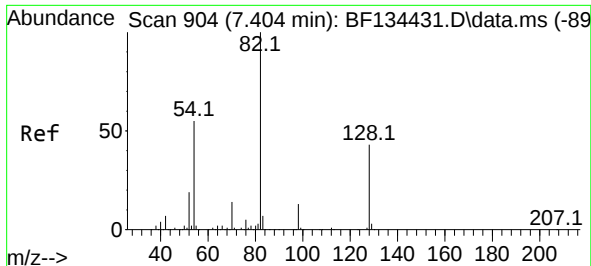


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38



Tgt Ion:136 Resp: 214099
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 8.5 5.2 7.8#
68 4.6 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 9.560 ng

RT: 7.387 min Scan# 904

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

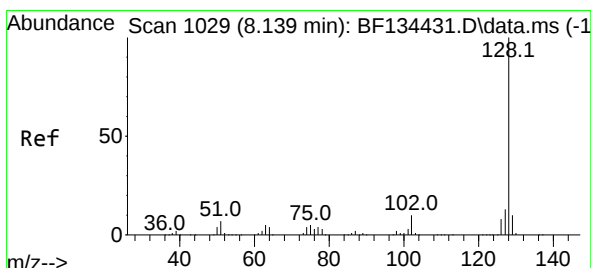
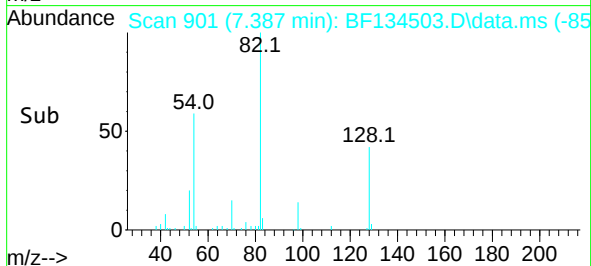
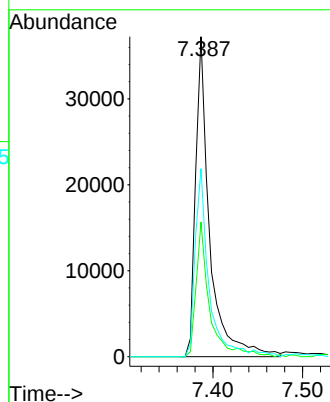
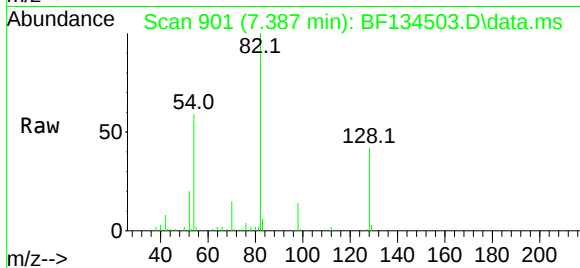
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Tgt Ion: 82 Resp: 4045

Ion	Ratio	Lower	Upper
82	100		
128	42.1	34.3	51.5
54	58.8	43.8	65.6

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Supervised By :mohammad ahmed 07/28/2023



#31

Naphthalene

Concen: 3.955 ng

RT: 8.122 min Scan# 1026

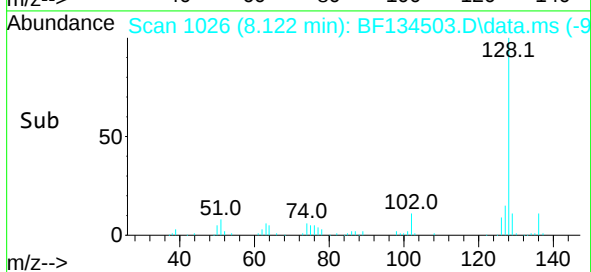
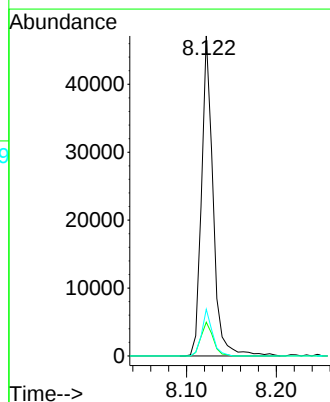
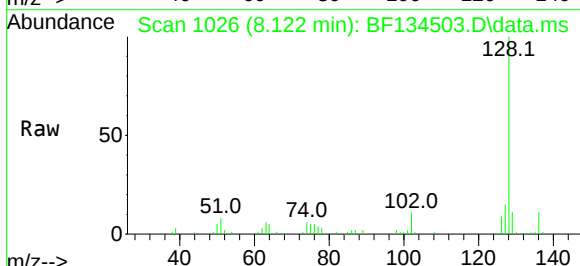
Delta R.T. -0.006 min

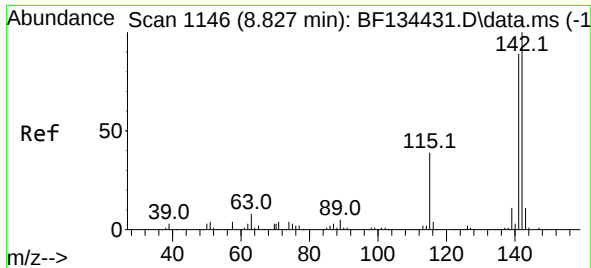
Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Tgt Ion:128 Resp: 42138

Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.4	12.6
127	14.6	10.7	16.1





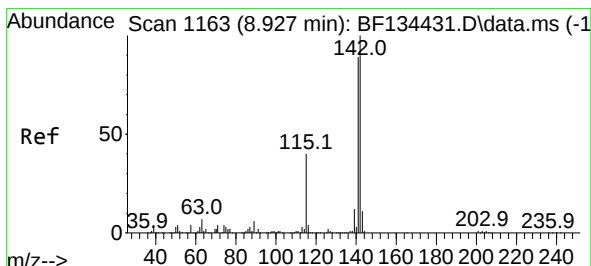
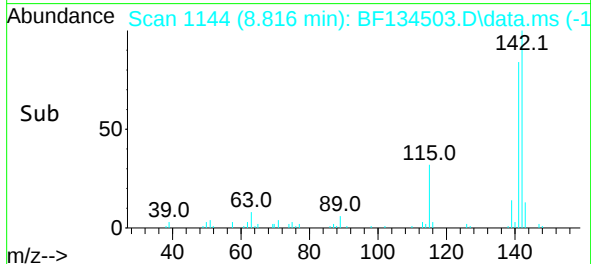
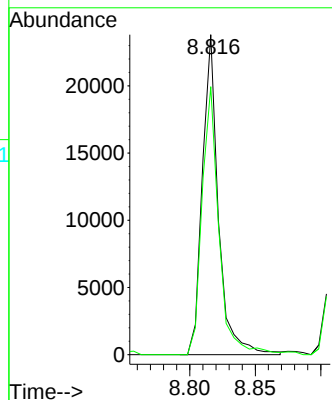
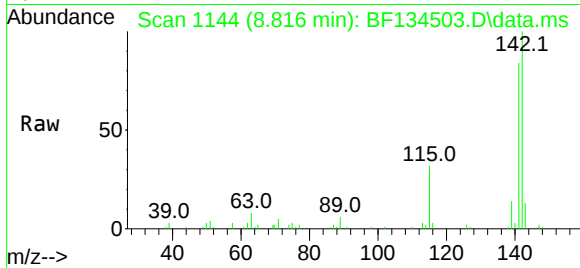
#37
2-Methylnaphthalene
Concen: 2.739 ng
RT: 8.816 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:142 Resp: 2028
Ion Ratio Lower Upper
142 100
141 83.8 70.8 106.2

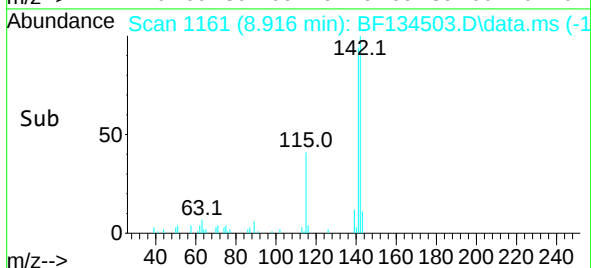
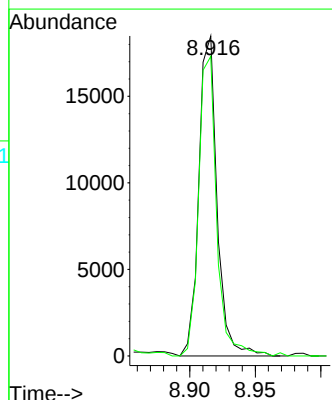
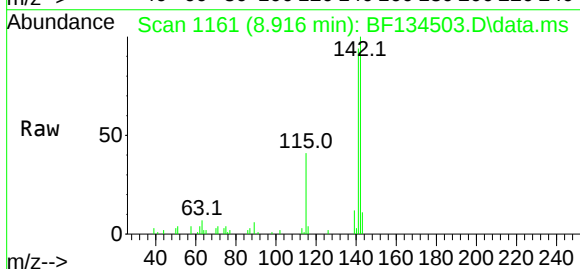
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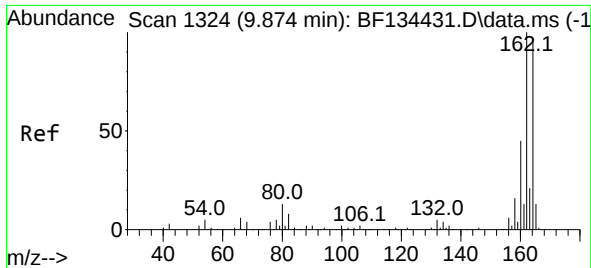
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#38
1-Methylnaphthalene
Concen: 2.617 ng
RT: 8.916 min Scan# 1161
Delta R.T. 0.000 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

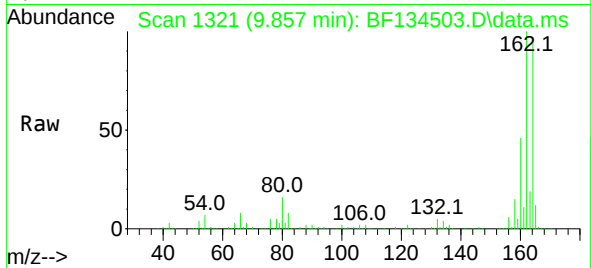
Tgt Ion:142 Resp: 17975
Ion Ratio Lower Upper
142 100
141 93.6 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 11136
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

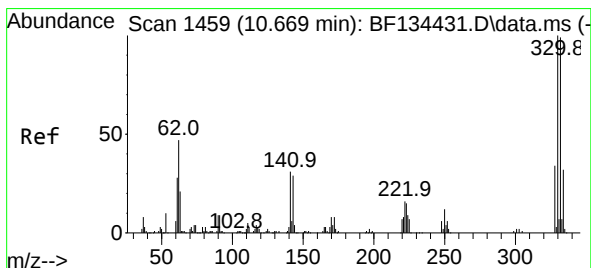
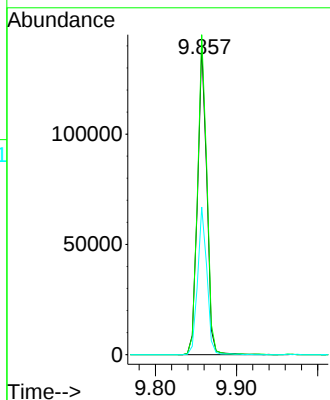
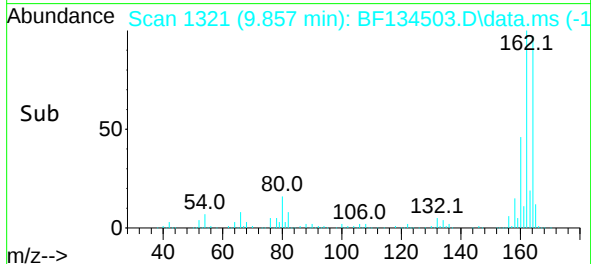
Instrument :
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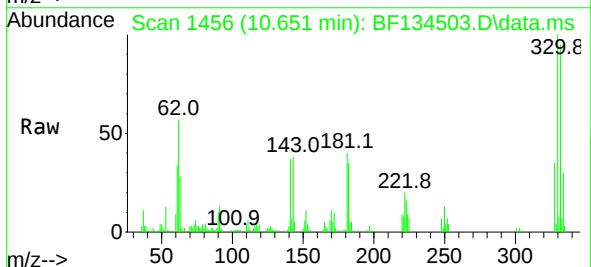
Tgt Ion:164 Resp: 11136
Ion Ratio Lower Upper
164 100
162 103.6 82.6 123.8
160 47.8 37.2 55.8

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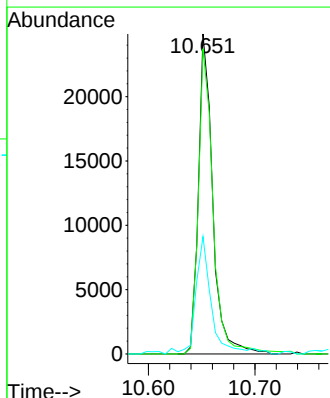
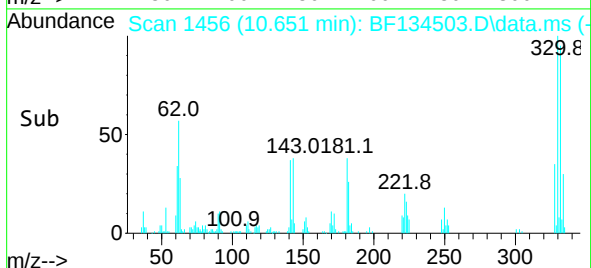
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

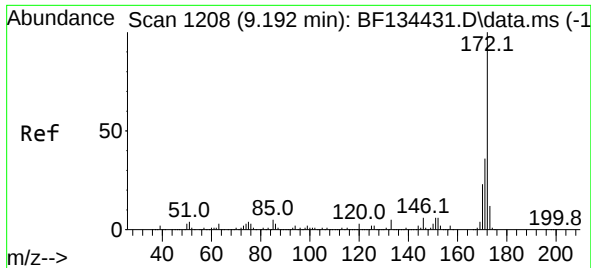


#42
2,4,6-Tribromophenol
Concen: 14.686 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.011 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38



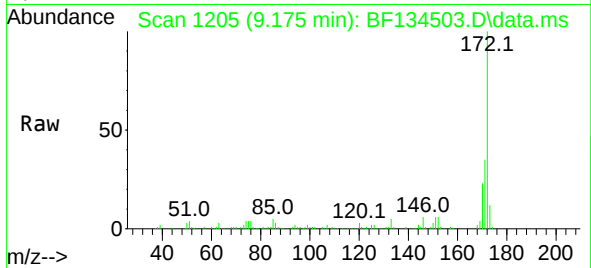
Tgt Ion:330 Resp: 23238
Ion Ratio Lower Upper
330 100
332 98.8 78.8 118.2
141 40.3 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 10.497 ng
RT: 9.175 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

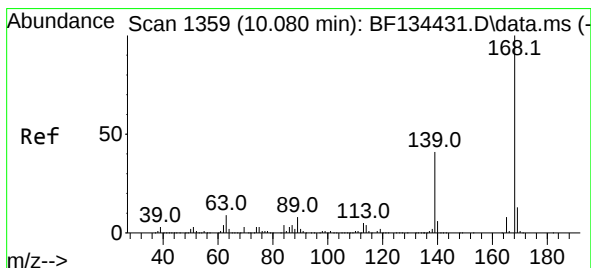
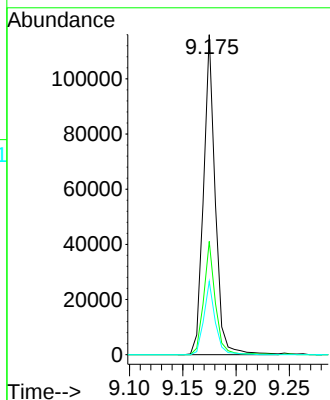
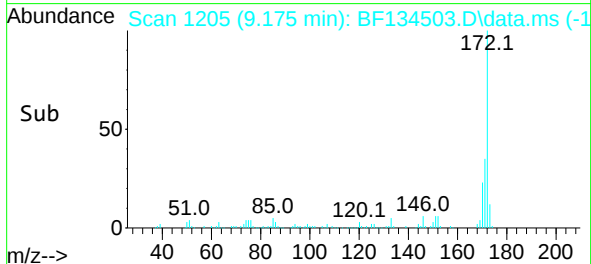
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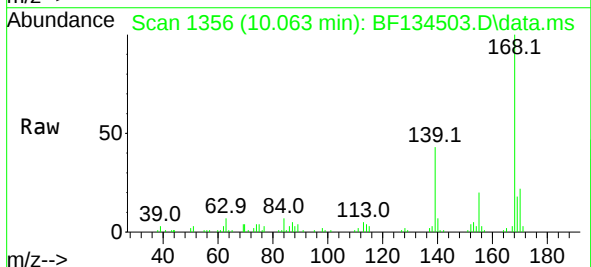
Tgt Ion:172 Resp: 89049
Ion Ratio Lower Upper
172 100
171 35.4 28.8 43.2
170 22.9 18.7 28.1

Manual Integrations
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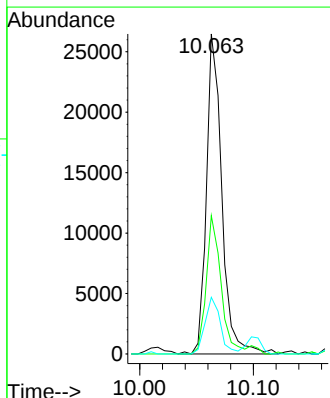
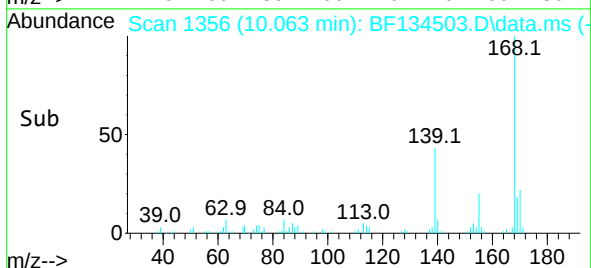
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

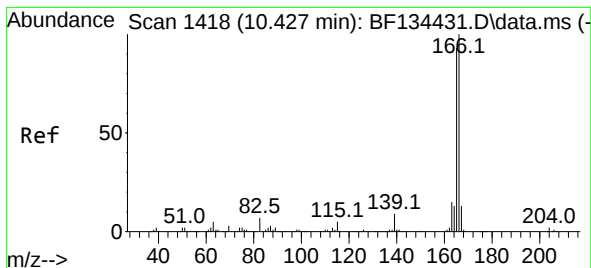


#55
Dibenzofuran
Concen: 2.396 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38



Tgt Ion:168 Resp: 24899
Ion Ratio Lower Upper
168 100
139 43.2 33.4 50.2
169 17.7 10.6 15.8#





#58

Fluorene

Concen: 4.504 ng

RT: 10.410 min Scan# 1418

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

Tgt Ion:166 Resp: 37769

Ion Ratio Lower Upper

166 100

165 91.8 74.5 111.7

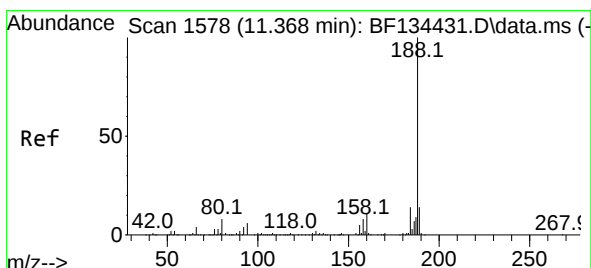
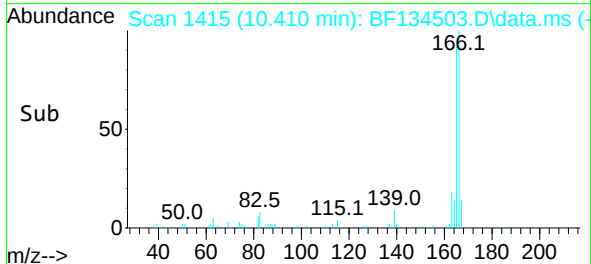
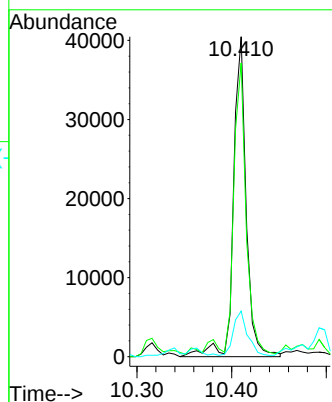
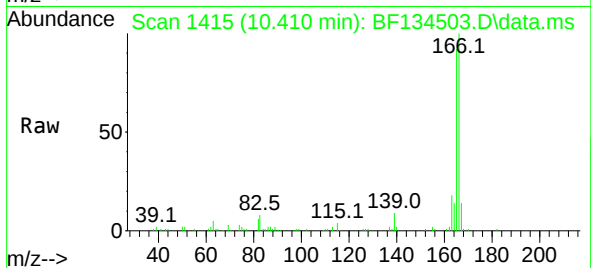
167 14.2 10.6 16.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.351 min Scan# 1575

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

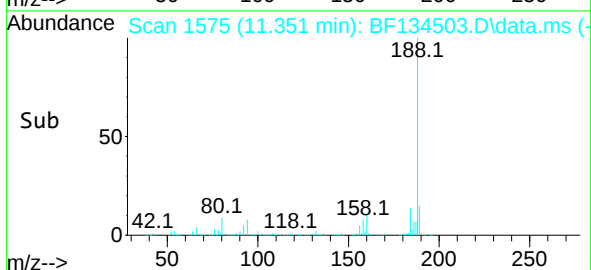
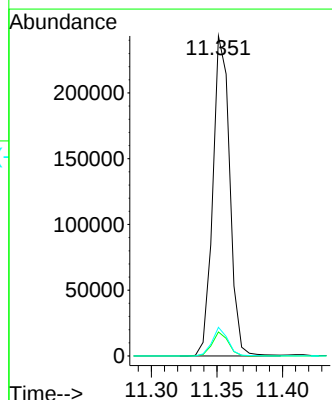
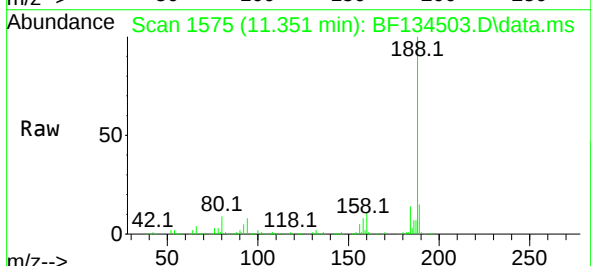
Tgt Ion:188 Resp: 218390

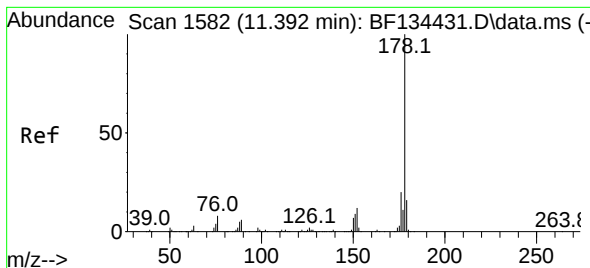
Ion Ratio Lower Upper

188 100

94 7.5 5.1 7.7

80 9.0 6.6 9.8





#71

Phenanthrene

Concen: 41.092 ng

RT: 11.381 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

Tgt Ion:178 Resp: 46888

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.6

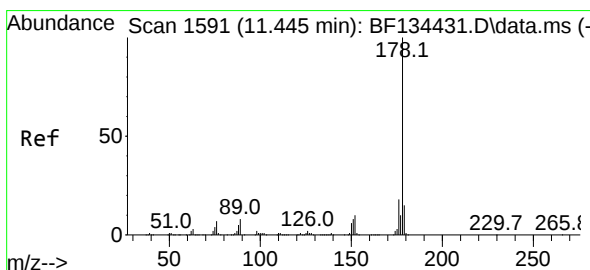
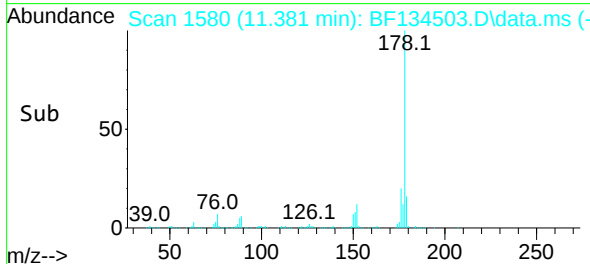
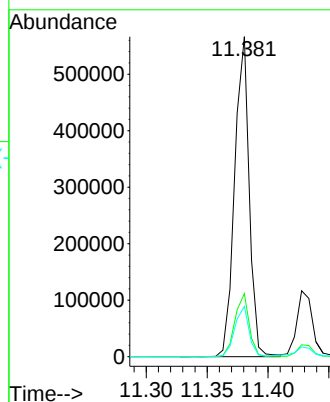
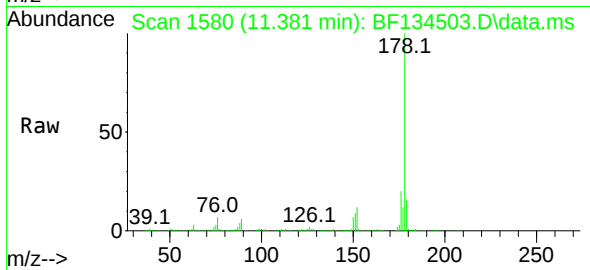
179 15.7 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#72

Anthracene

Concen: 9.041 ng

RT: 11.428 min Scan# 1588

Delta R.T. -0.011 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

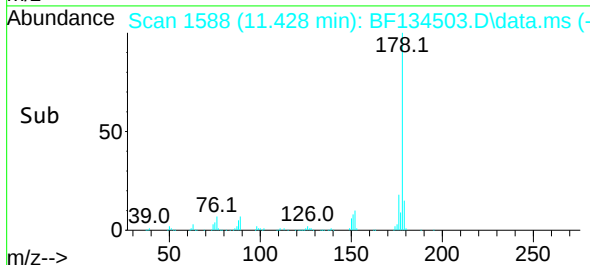
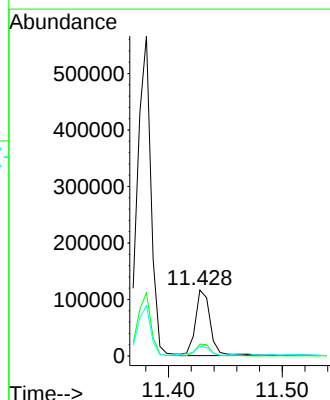
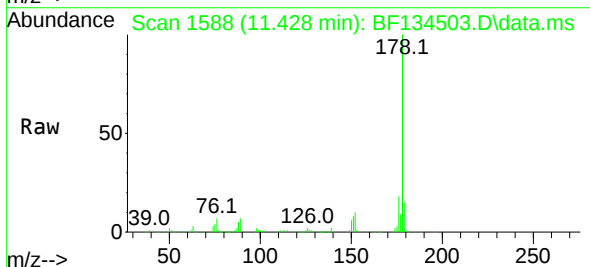
Tgt Ion:178 Resp: 106471

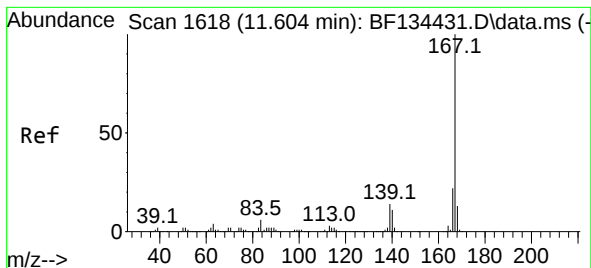
Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

179 14.9 12.3 18.5





#73

Carbazole

Concen: 2.266 ng

RT: 11.592 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

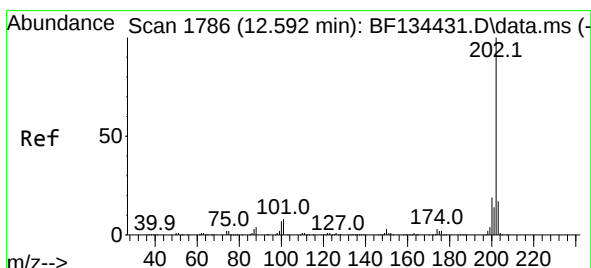
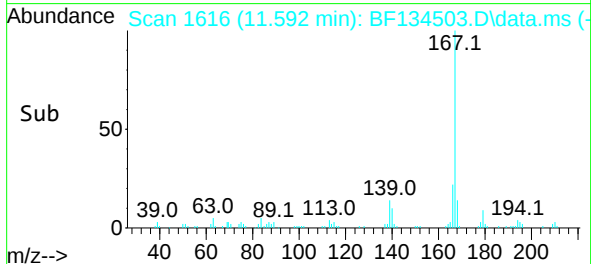
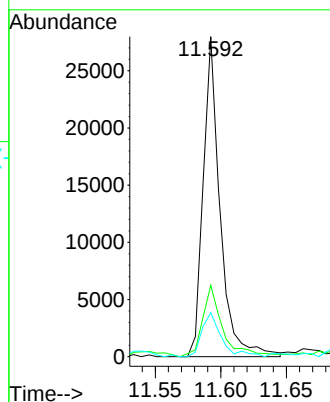
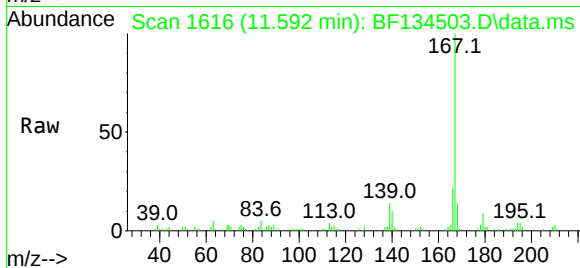
Tgt Ion:167	Resp:	2513
Ion Ratio	Lower	Upper
167	100	
166	22.3	17.5 26.3
139	13.8	11.0 16.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#75

Fluoranthene

Concen: 41.202 ng

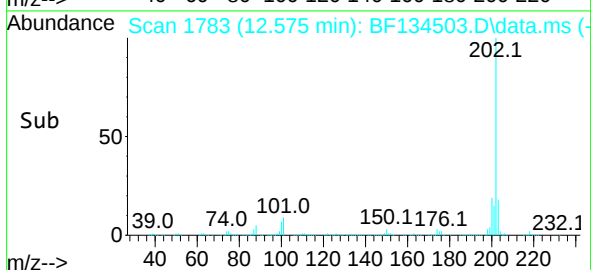
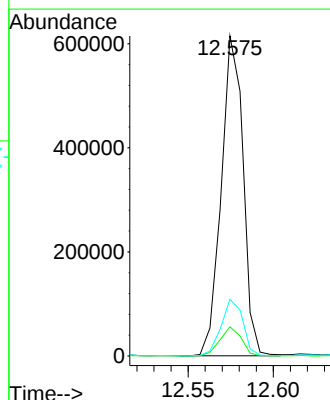
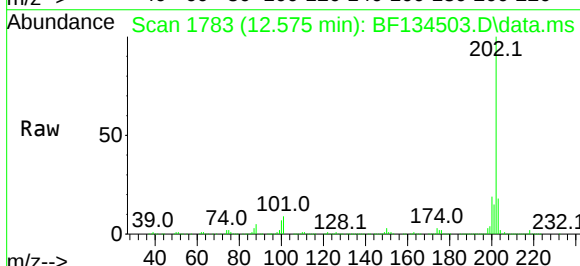
RT: 12.575 min Scan# 1783

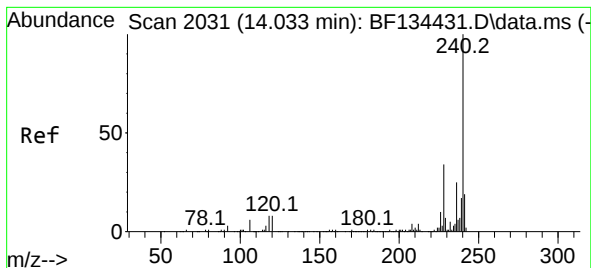
Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

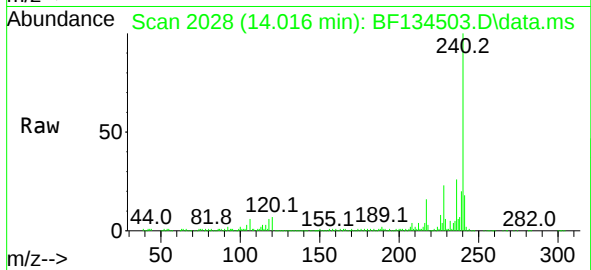
Tgt Ion:202	Resp:	547921
Ion Ratio	Lower	Upper
202	100	
101	9.1	0.0 28.5
203	17.7	0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

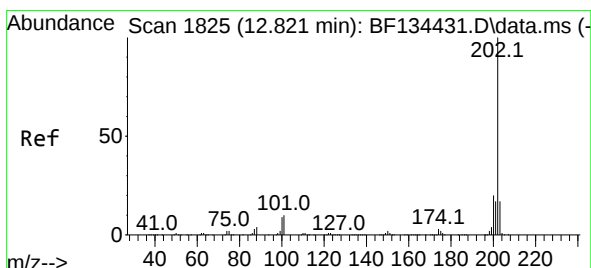
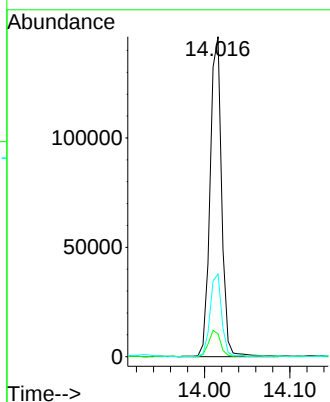
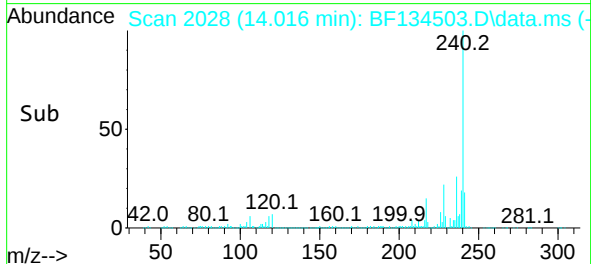
Instrument :
BNA_F
ClientSampleId :
TP11DL



Tgt Ion:240 Resp: 13808
Ion Ratio Lower Upper
240 100
120 7.1 6.6 10.0
236 25.8 20.2 30.2

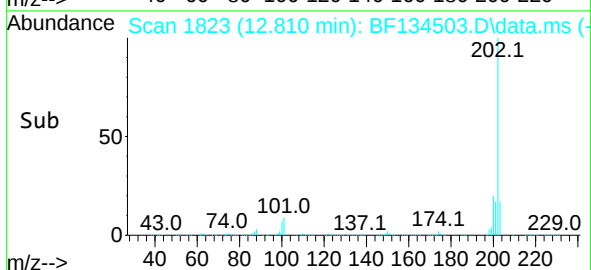
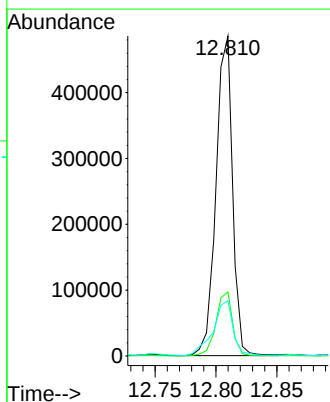
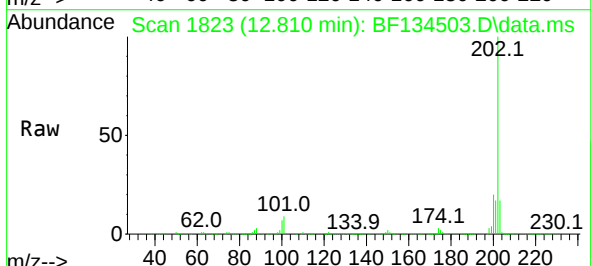
Manual Integrations
APPROVED

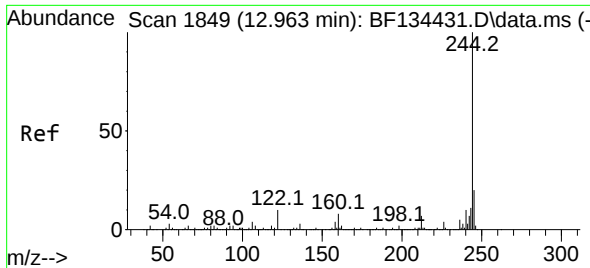
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#78
Pyrene
Concen: 41.986 ng
RT: 12.810 min Scan# 1823
Delta R.T. 0.000 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

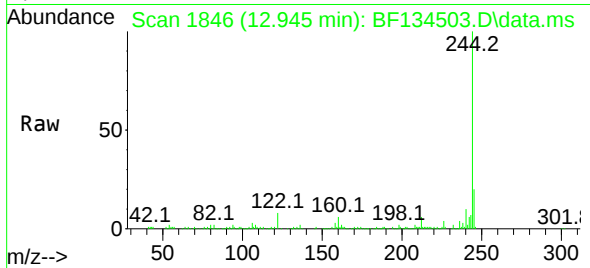
Tgt Ion:202 Resp: 460978
Ion Ratio Lower Upper
202 100
200 20.0 15.8 23.8
203 17.2 13.5 20.3





#79
 Terphenyl-d14
 Concen: 10.589 ng
 RT: 12.945 min Scan# 1846
 Delta R.T. -0.006 min
 Lab File: BF134503.D
 Acq: 27 Jul 2023 13:38

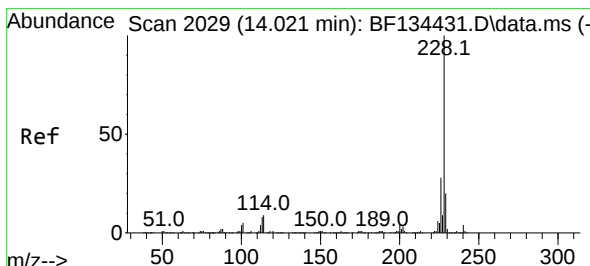
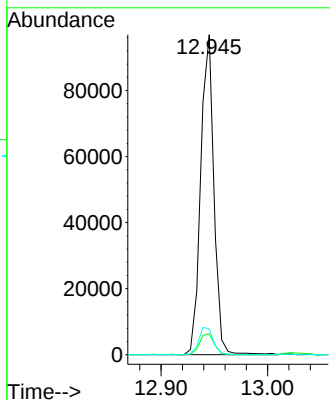
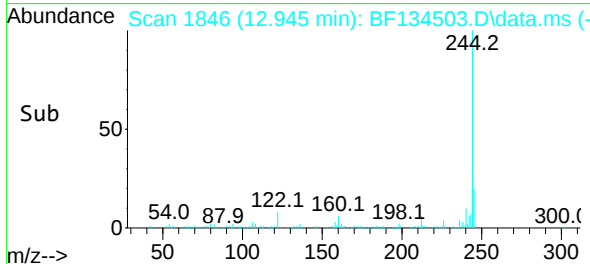
Instrument :
 BNA_F
 ClientSampleId :
 TP11DL



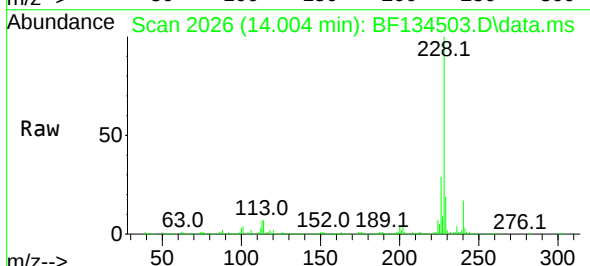
Tgt Ion:244 Resp: 83759
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.6 8.4
 122 8.0 8.0 12.0

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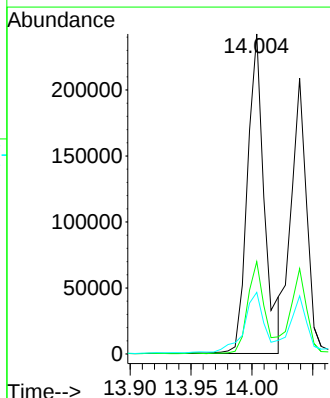
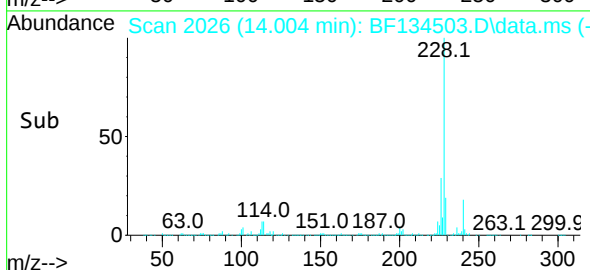
Reviewed By :Yogesh Patel 07/28/2023
 Supervised By :mohammad ahmed 07/28/2023

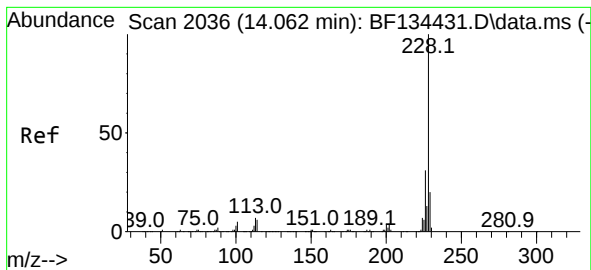


#81
 Benzo(a)anthracene
 Concen: 24.443 ng
 RT: 14.004 min Scan# 2026
 Delta R.T. -0.006 min
 Lab File: BF134503.D
 Acq: 27 Jul 2023 13:38



Tgt Ion:228 Resp: 235480
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.3 33.5
 229 19.3 15.8 23.6





#83

Chrysene

Concen: 20.204 ng

RT: 14.039 min Scan# 2036

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

Tgt Ion:228 Resp: 18616

Ion Ratio Lower Upper

228 100

226 30.9 24.5 36.7

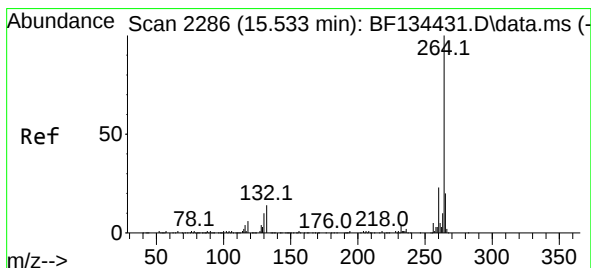
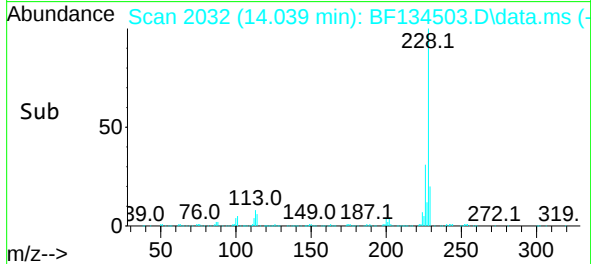
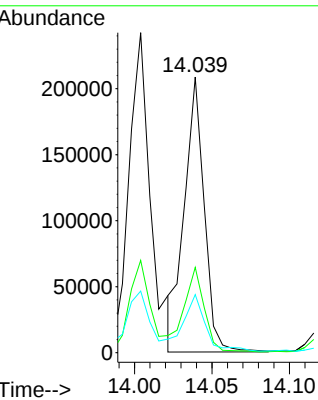
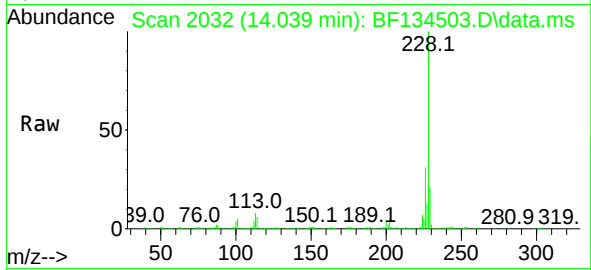
229 21.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2282

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

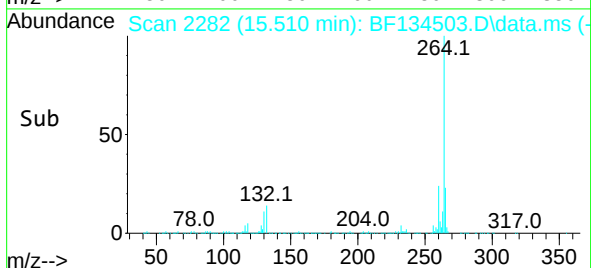
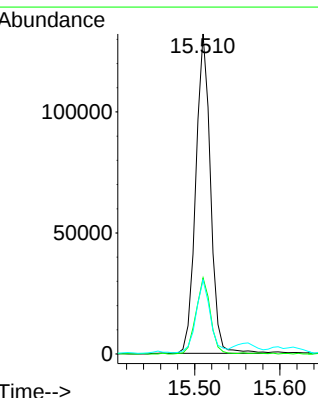
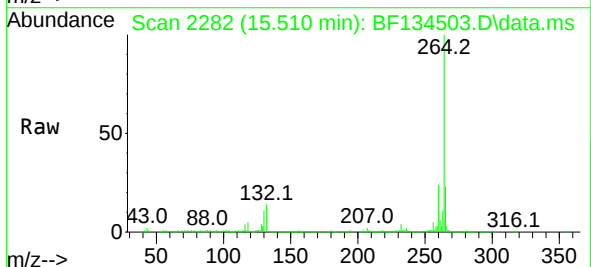
Tgt Ion:264 Resp: 158223

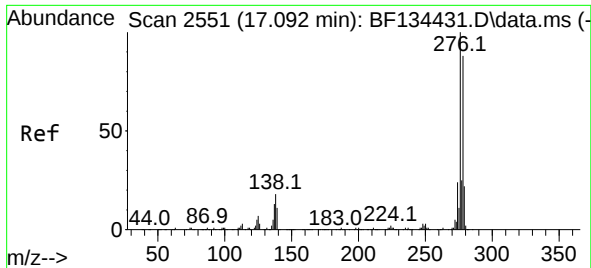
Ion Ratio Lower Upper

264 100

260 23.8 18.4 27.6

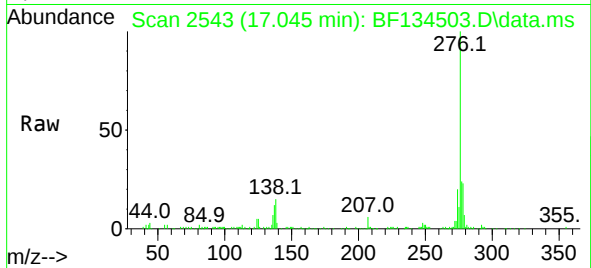
265 23.1 15.8 23.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.008 ng
RT: 17.045 min Scan# 2111
Delta R.T. -0.011 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

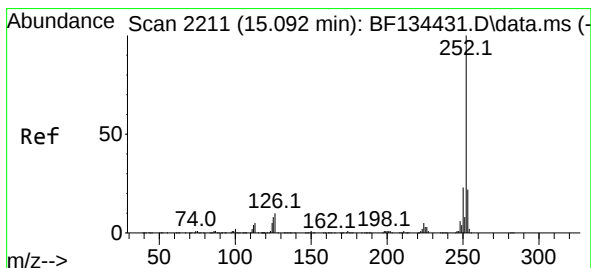
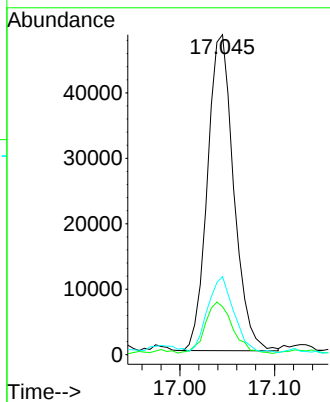
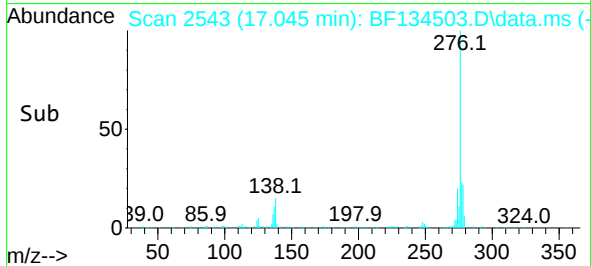
Instrument :
BNA_F
ClientSampleId :
TP11DL



Tgt Ion:276 Resp: 9311
Ion Ratio Lower Upper
276 100
138 16.9 14.2 21.4
277 24.4 19.9 29.9

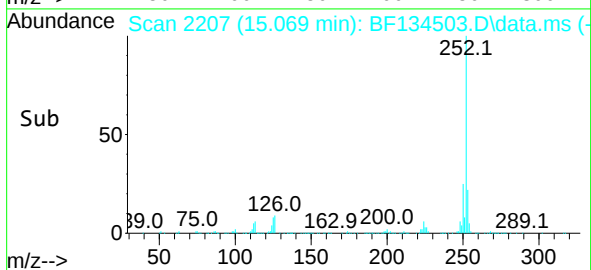
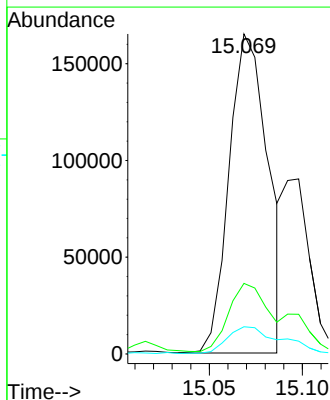
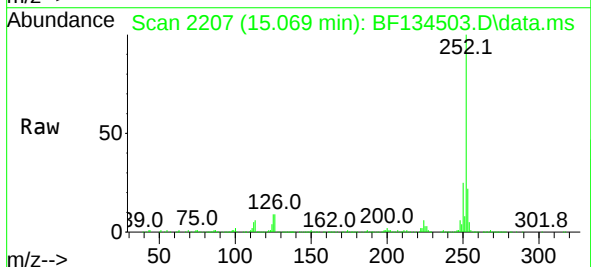
Manual Integrations
APPROVED

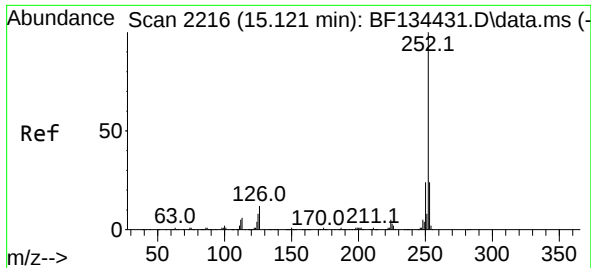
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#88
Benzo(b)fluoranthene
Concen: 24.295 ng m
RT: 15.069 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BF134503.D
Acq: 27 Jul 2023 13:38

Tgt Ion:252 Resp: 240485
Ion Ratio Lower Upper
252 100
253 22.1 17.3 25.9
125 8.5 6.0 9.0





#89

Benzo(k)fluoranthene

Concen: 8.962 ng m

RT: 15.098 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

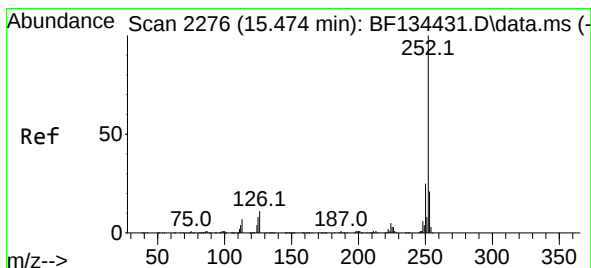
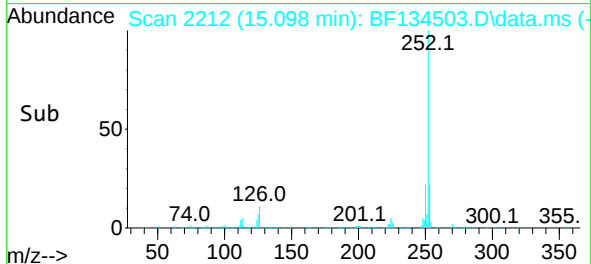
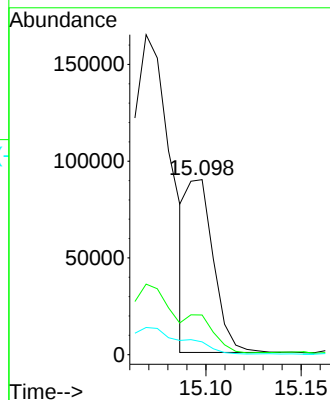
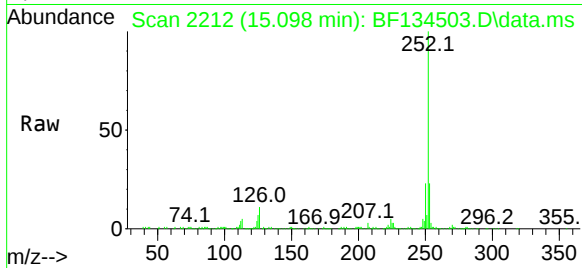
Tgt Ion:252 Resp: 87245
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.9 26.9
 125 7.3 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#90

Benzo(a)pyrene

Concen: 19.545 ng

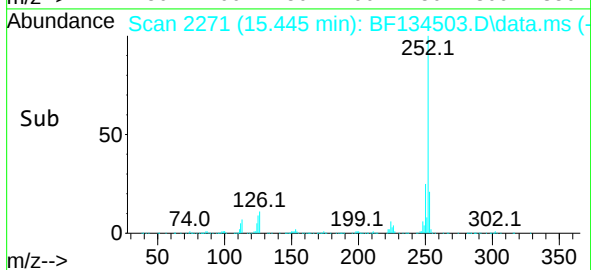
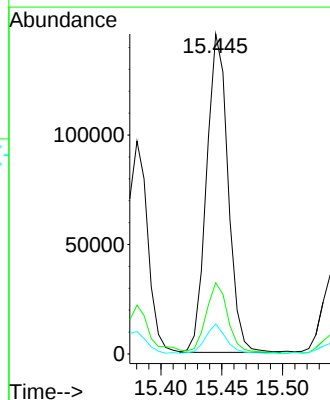
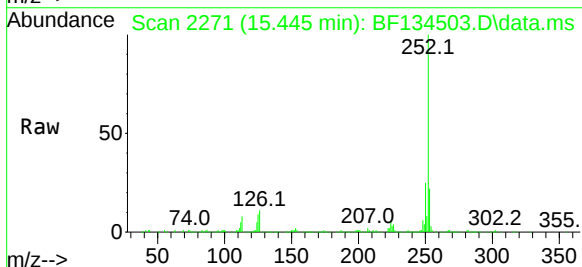
RT: 15.445 min Scan# 2271

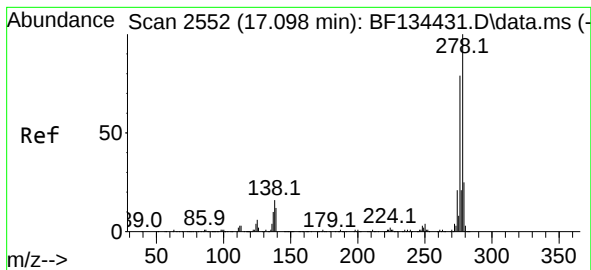
Delta R.T. -0.006 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Tgt Ion:252 Resp: 178824
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.0 25.4
 125 9.4 6.2 9.4#





#91

Dibenzo(a,h)anthracene

Concen: 2.935 ng

RT: 17.045 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Instrument :

BNA_F

ClientSampleId :

TP11DL

Tgt Ion:278 Resp: 2450

Ion Ratio Lower Upper

278 100

139 14.0 10.0 15.0

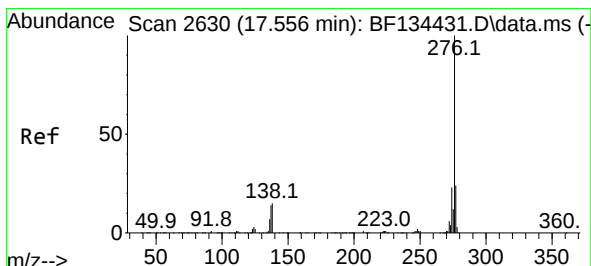
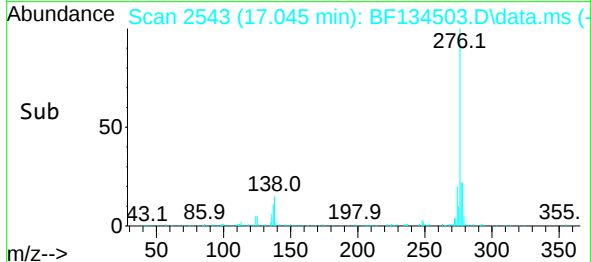
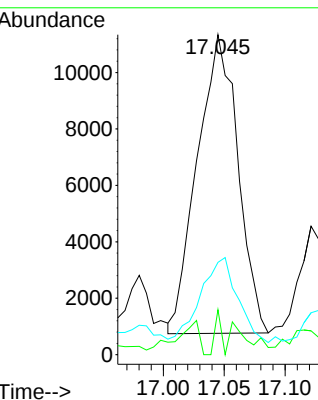
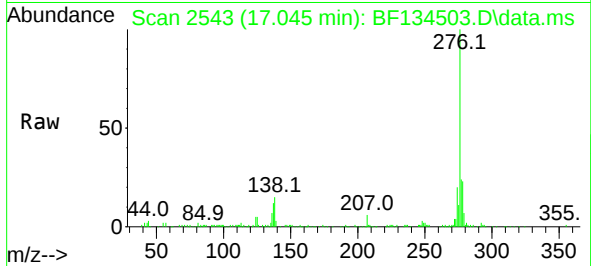
279 28.9 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/28/2023

Supervised By :mohammad ahmed 07/28/2023



#92

Benzo(g,h,i)perylene

Concen: 9.412 ng

RT: 17.510 min Scan# 2622

Delta R.T. -0.011 min

Lab File: BF134503.D

Acq: 27 Jul 2023 13:38

Tgt Ion:276 Resp: 80676

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.6

138 14.5 12.2 18.2

