

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
 Data File : BF134455.D
 Acq On : 25 Jul 2023 05:15
 Operator : CG\JU
 Sample : 03640-31
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP11

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/25/2023
 Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 05:41:18 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 01:46:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	82529	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	298278	20.000	ng	# 0.00
39) Acenaphthene-d10	9.869	164	118385	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	188730	20.000	ng	0.00
76) Chrysene-d12	14.039	240	144737	20.000	ng	0.00
86) Perylene-d12	15.545	264	120445	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	322458	64.554	ng	0.00
7) Phenol-d6	6.475	99	375561	61.366	ng	0.00
23) Nitrobenzene-d5	7.398	82	271570	46.064	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	92492	54.988	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	445080	49.356	ng	0.00
79) Terphenyl-d14	12.963	244	338892	40.874	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.134	128	263110	17.724	ng	99
37) 2-Methylnaphthalene	8.828	142	119930	11.627	ng	94
38) 1-Methylnaphthalene	8.922	142	106587	11.139	ng	97
46) 1,1'-Biphenyl	9.286	154	25318	2.595	ng	96
49) Acenaphthylene	9.733	152	144140	11.861	ng	98
52) Acenaphthene	9.904	154	56554	7.878	ng	97
55) Dibenzofuran	10.075	168	108490	9.819	ng	# 94
58) Fluorene	10.422	166	165212	18.535	ng	99
71) Phenanthrene	11.404	178	1549953	157.183	ng	99
72) Anthracene	11.445	178	365480	35.911	ng	98
73) Carbazole	11.604	167	98419	10.269	ng	99
75) Fluoranthene	12.604	202	2161006	188.040	ng	98
78) Pyrene	12.839	202	1902486	165.313	ng	98
81) Benzo(a)anthracene	14.027	228	993002	98.336	ng	96
83) Chrysene	14.068	228	834596	86.410	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	305820	38.865	ng	97
88) Benzo(b)fluoranthene	15.104	252	833363m	110.598	ng	
89) Benzo(k)fluoranthene	15.127	252	262564m	35.433	ng	
90) Benzo(a)pyrene	15.486	252	557092	79.986	ng	98
91) Dibenzo(a,h)anthracene	17.098	278	82943m	13.052	ng	
92) Benzo(g,h,i)perylene	17.568	276	282267	43.260	ng	100

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

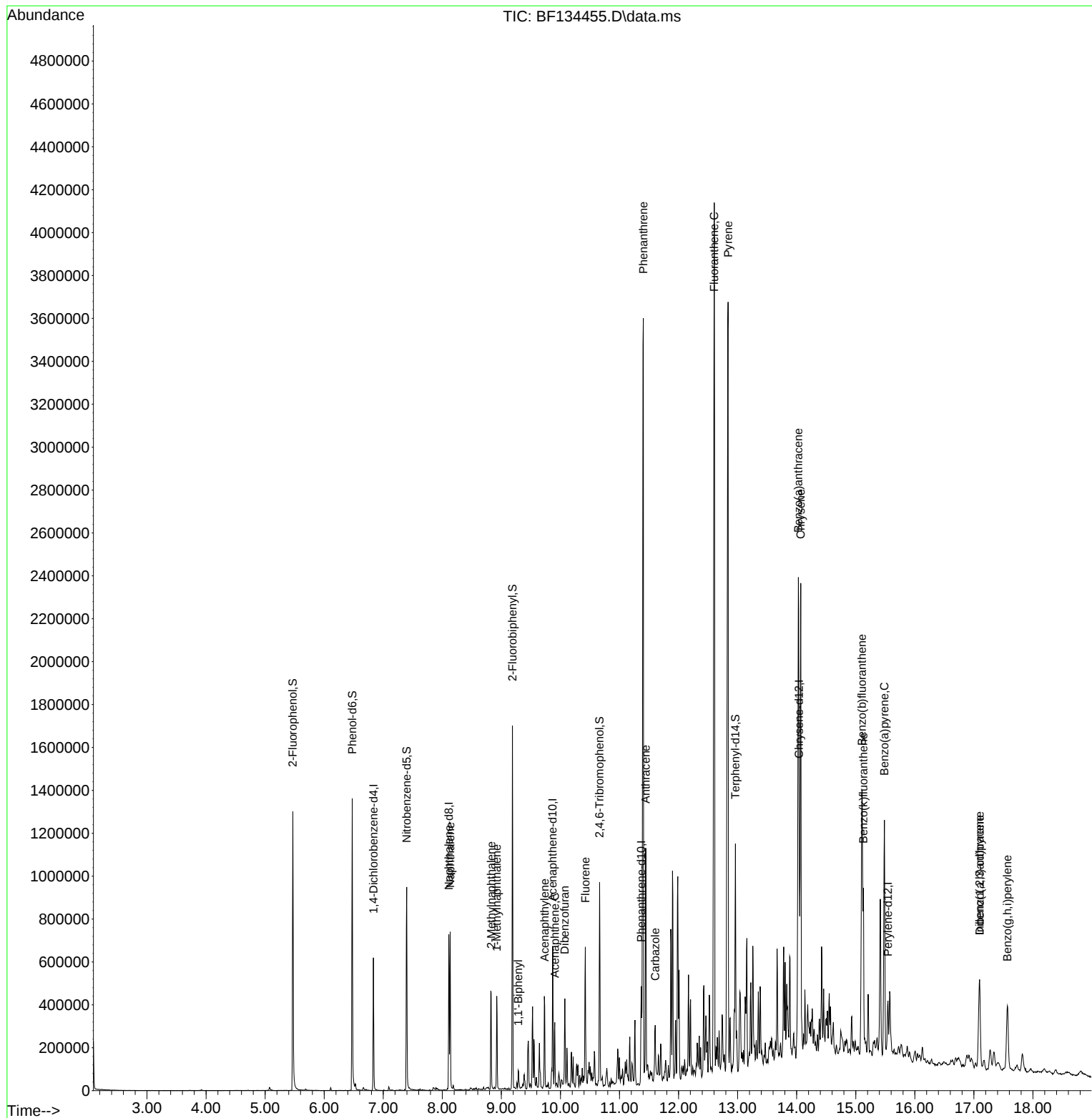
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134455.D
Acq On : 25 Jul 2023 05:15
Operator : CG\JU
Sample : 03640-31
Misc :
ALS Vial : 19 Sample Multiplier: 1

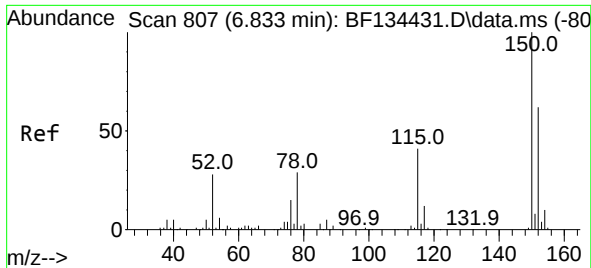
Instrument :
BNA_F
ClientSampleId :
TP11

Quant Time: Jul 25 05:41:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

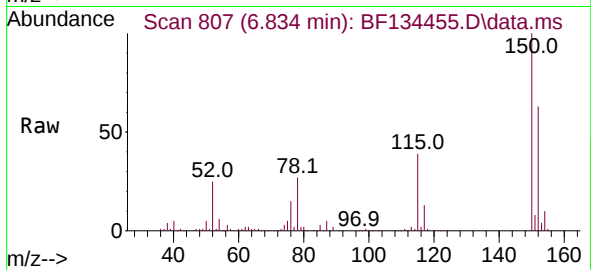
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 807
Delta R.T. 0.001 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

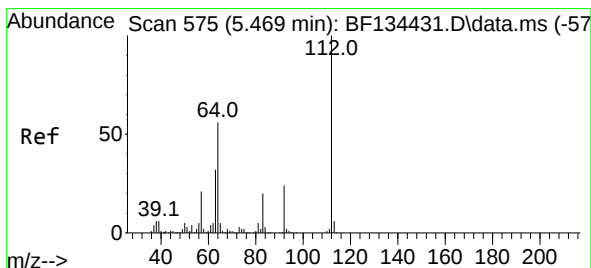
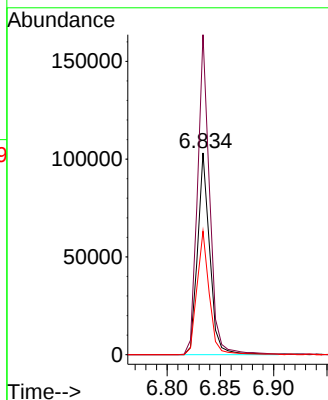
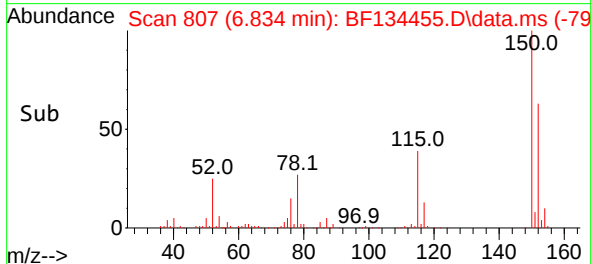
Instrument :
BNA_F
ClientSampleId :
TP11



Tgt Ion:152 Resp: 82529
Ion Ratio Lower Upper
152 100
150 158.6 128.3 192.5
115 61.2 52.4 78.6

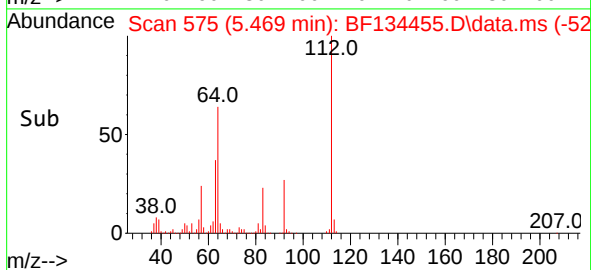
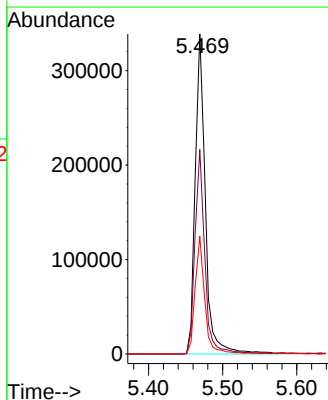
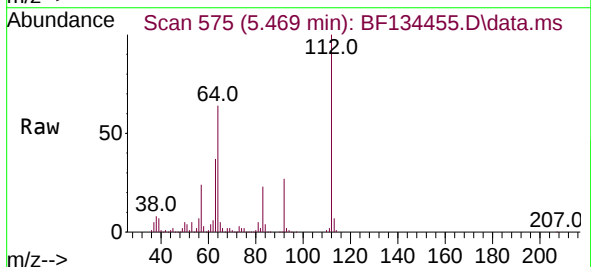
Manual Integrations
APPROVED

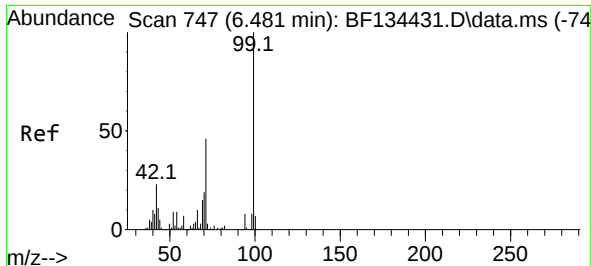
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#5
2-Fluorophenol
Concen: 64.554 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.000 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

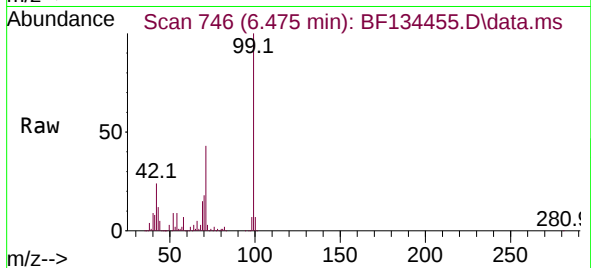
Tgt Ion:112 Resp: 322458
Ion Ratio Lower Upper
112 100
64 63.9 44.9 67.3
63 36.7 25.4 38.0





#7
Phenol-d6
Concen: 61.366 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

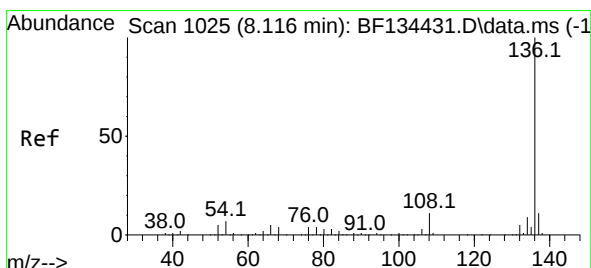
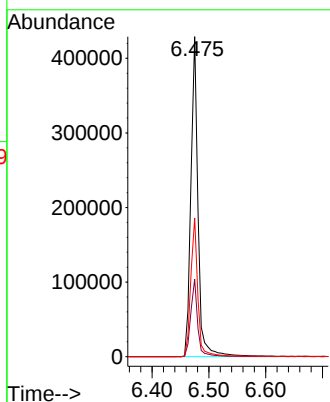
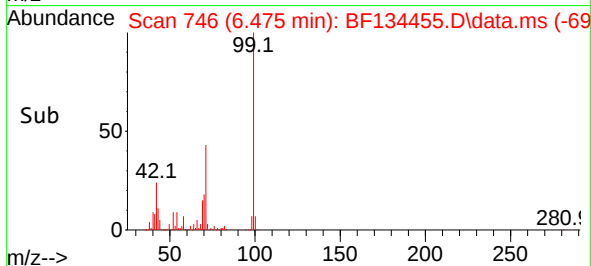
Instrument :
BNA_F
ClientSampleId :
TP11



Tgt Ion: 99 Resp: 37556
Ion Ratio Lower Upper
99 100
42 24.3 18.7 28.1
71 43.3 36.4 54.6

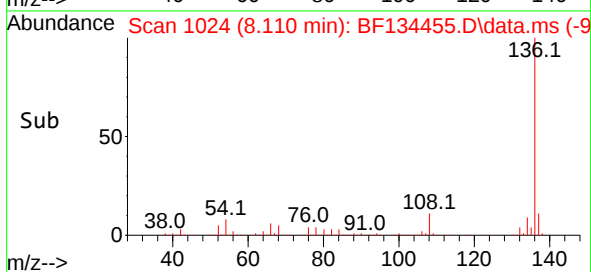
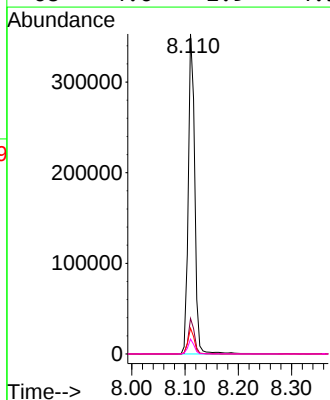
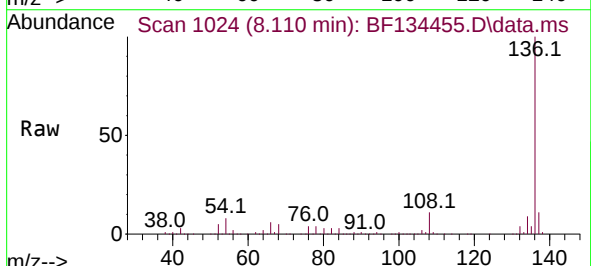
Manual Integrations
APPROVED

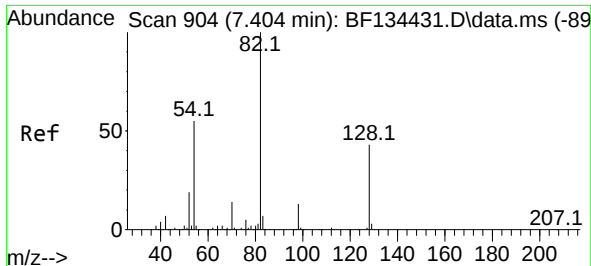
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

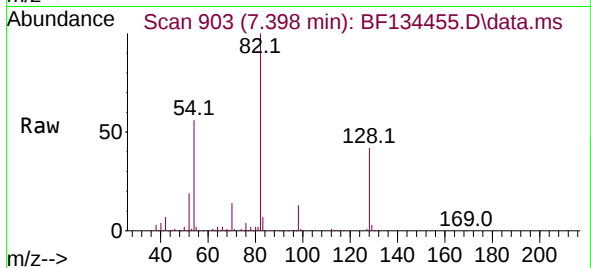
Tgt Ion:136 Resp: 298278
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.1 5.2 7.8#
68 4.6 2.9 4.3#





#23
Nitrobenzene-d5
Concen: 46.064 ng
RT: 7.398 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

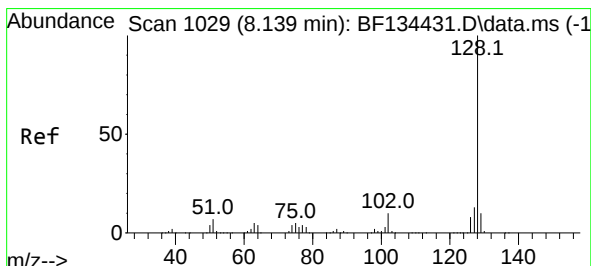
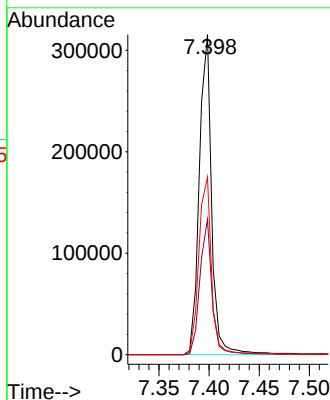
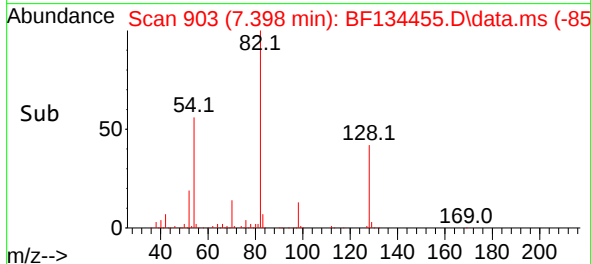
Instrument :
BNA_F
ClientSampleId :
TP11



Tgt Ion: 82 Resp: 271570
Ion Ratio Lower Upper
82 100
128 42.3 34.3 51.5
54 55.5 43.8 65.6

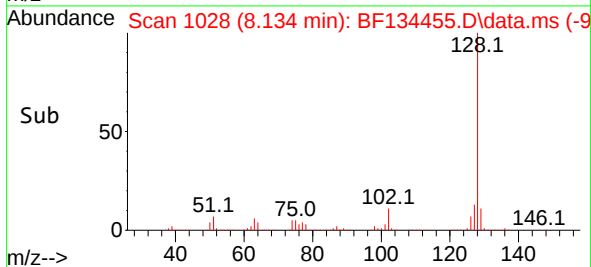
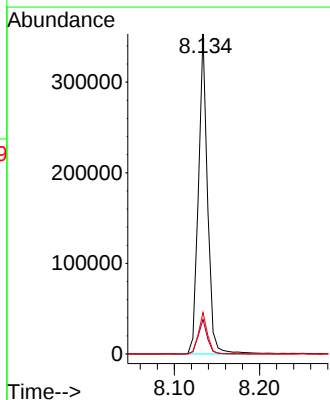
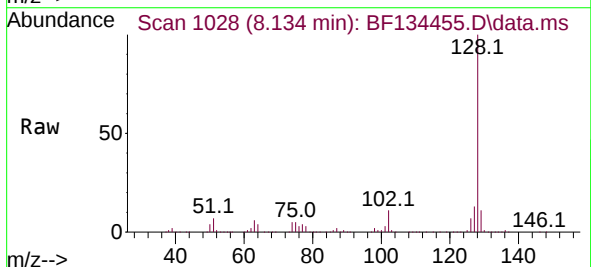
Manual Integrations
APPROVED

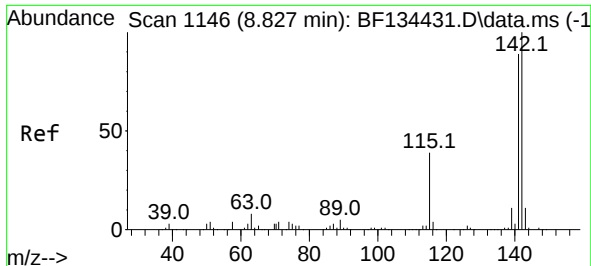
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#31
Naphthalene
Concen: 17.724 ng
RT: 8.134 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

Tgt Ion:128 Resp: 263110
Ion Ratio Lower Upper
128 100
129 10.7 8.4 12.6
127 13.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 11.627 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

Instrument :

BNA_F

ClientSampleId :

TP11

Tgt Ion:142 Resp: 119930

Ion Ratio Lower Upper

142 100

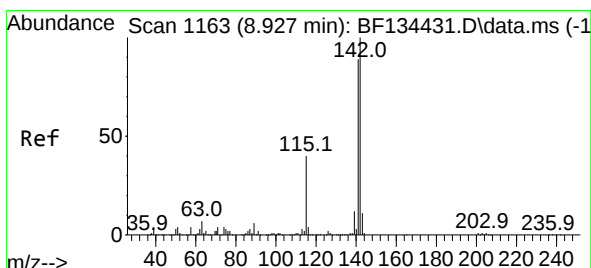
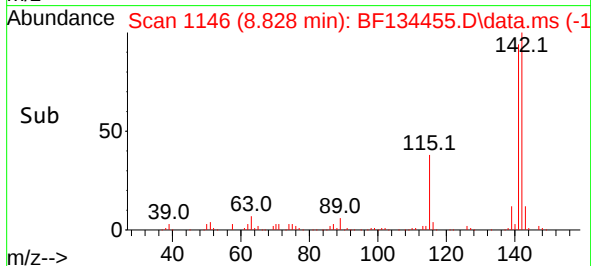
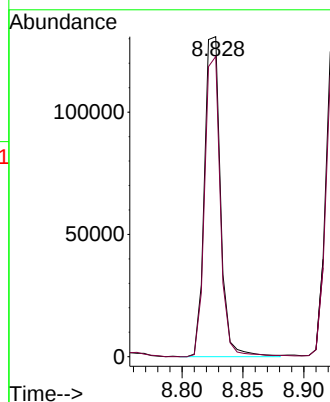
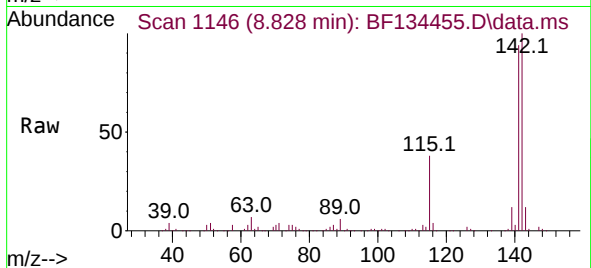
141 93.8 70.8 106.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/25/2023

Supervised By :mohammad ahmed 07/25/2023



#38

1-Methylnaphthalene

Concen: 11.139 ng

RT: 8.922 min Scan# 1162

Delta R.T. -0.006 min

Lab File: BF134455.D

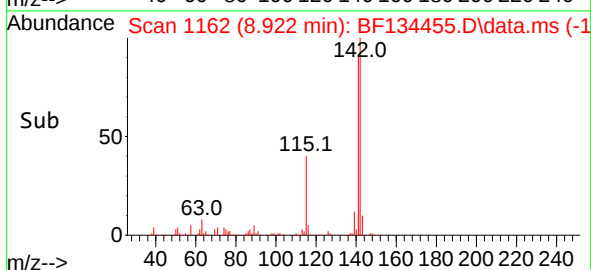
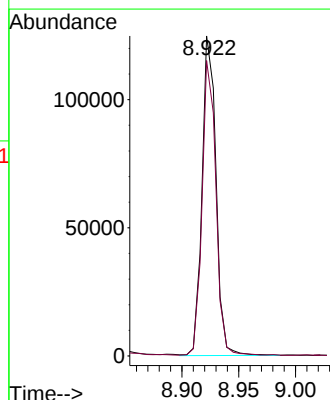
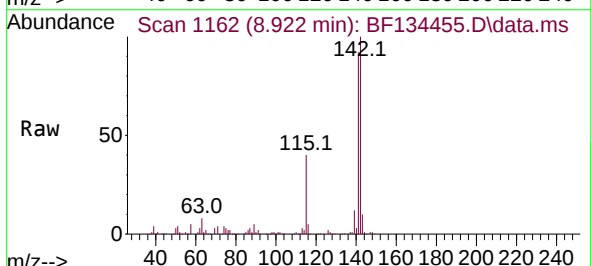
Acq: 25 Jul 2023 05:15

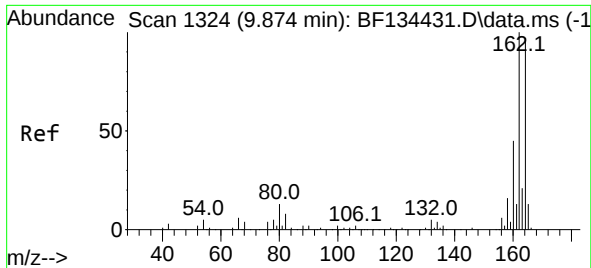
Tgt Ion:142 Resp: 106587

Ion Ratio Lower Upper

142 100

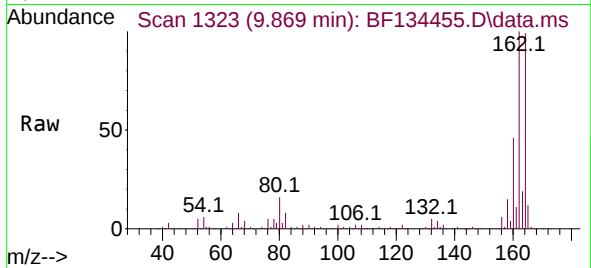
141 92.3 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

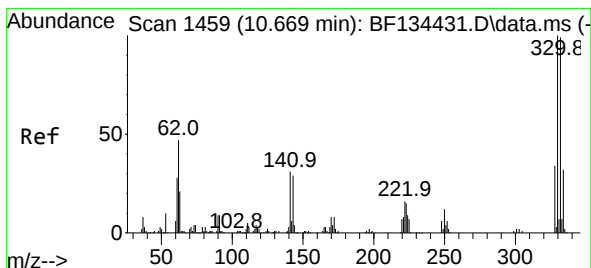
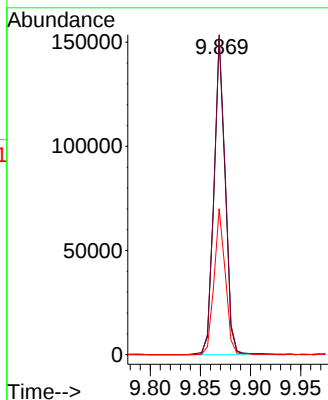
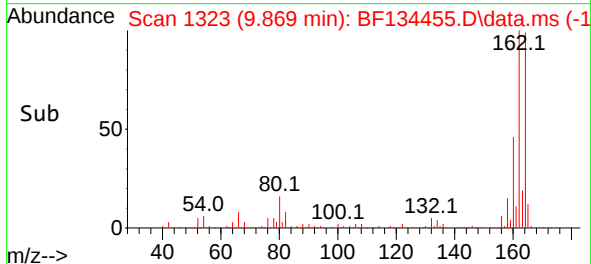
Instrument :
BNA_F
ClientSampleId :
TP11



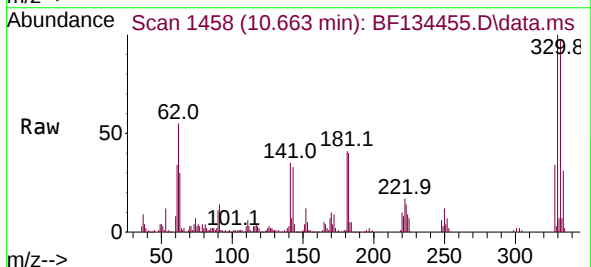
Tgt Ion:164 Resp: 11838
Ion Ratio Lower Upper
164 100
162 101.1 82.6 123.8
160 46.1 37.2 55.8

Manual Integrations
APPROVED

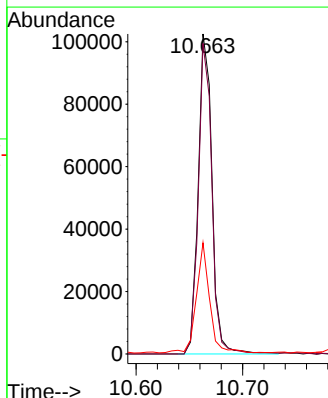
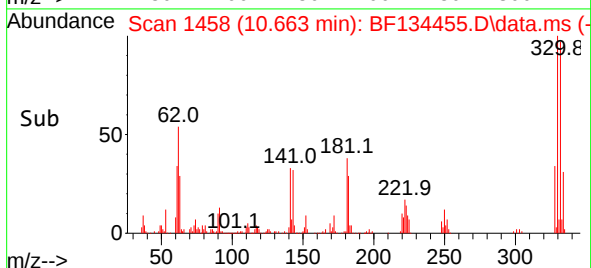
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

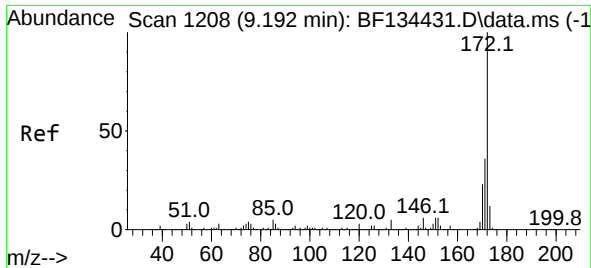


#42
2,4,6-Tribromophenol
Concen: 54.988 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



Tgt Ion:330 Resp: 92492
Ion Ratio Lower Upper
330 100
332 95.5 78.8 118.2
141 33.1 25.4 38.2





#45

2-Fluorobiphenyl

Concen: 49.356 ng

RT: 9.186 min Scan# 1207

Delta R.T. -0.006 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

Instrument :

BNA_F

ClientSampleId :

TP11

Tgt Ion:172 Resp: 445080

Ion Ratio Lower Upper

172 100

171 35.7 28.8 43.2

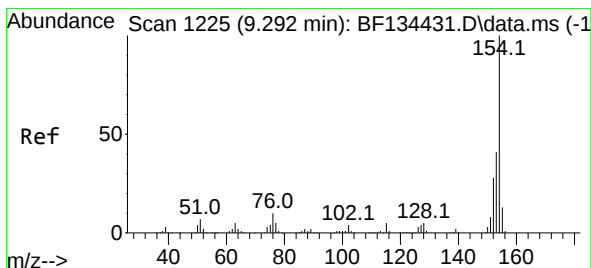
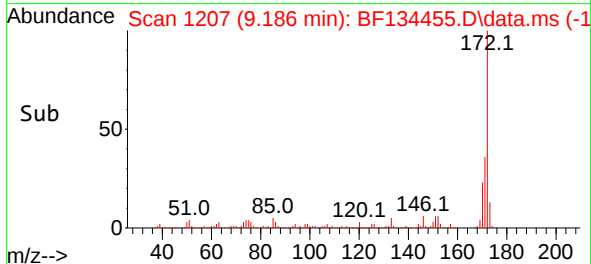
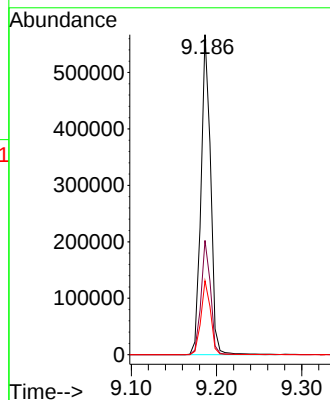
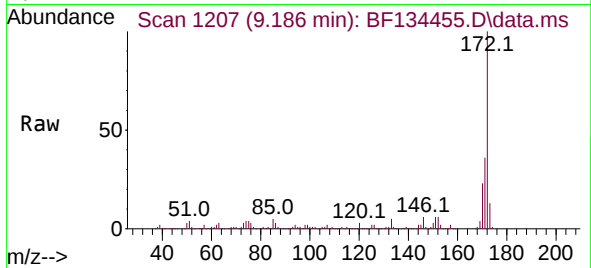
170 23.1 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/25/2023

Supervised By :mohammad ahmed 07/25/2023



#46

1,1'-Biphenyl

Concen: 2.595 ng

RT: 9.286 min Scan# 1224

Delta R.T. -0.006 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

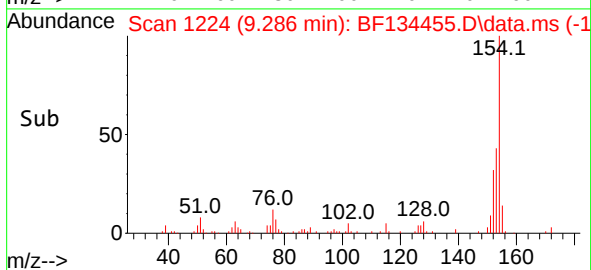
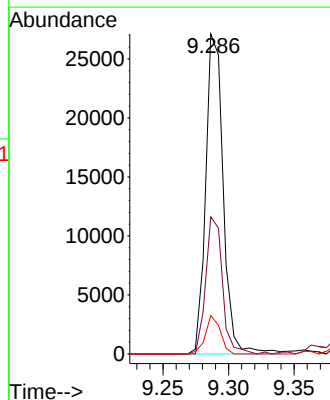
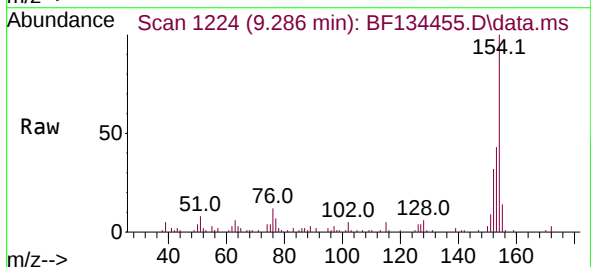
Tgt Ion:154 Resp: 25318

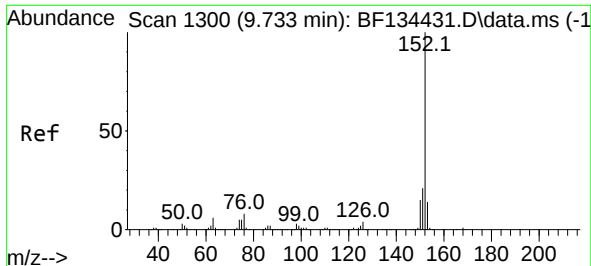
Ion Ratio Lower Upper

154 100

153 42.9 20.8 60.8

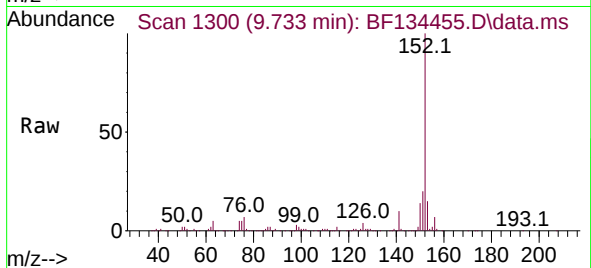
76 12.0 0.0 30.2





#49
Acenaphthylene
Concen: 11.861 ng
RT: 9.733 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

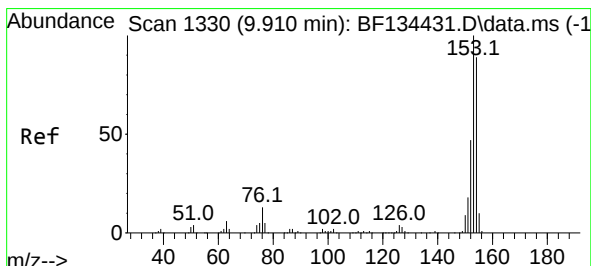
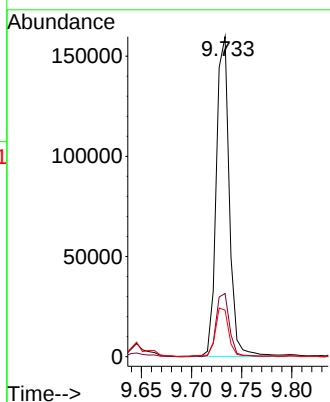
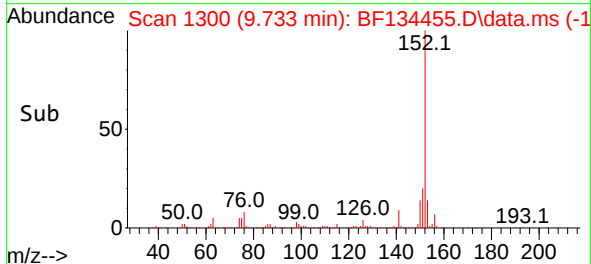
Instrument :
BNA_F
ClientSampleId :
TP11



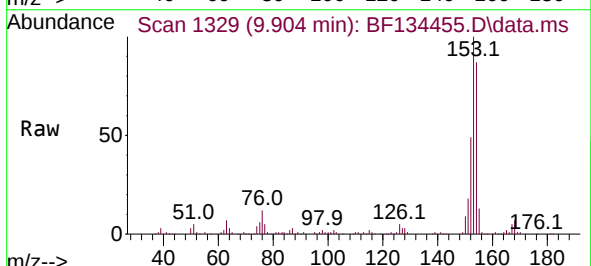
Tgt Ion:152 Resp: 144140
Ion Ratio Lower Upper
152 100
151 19.7 16.4 24.6
153 14.6 10.9 16.3

Manual Integrations
APPROVED

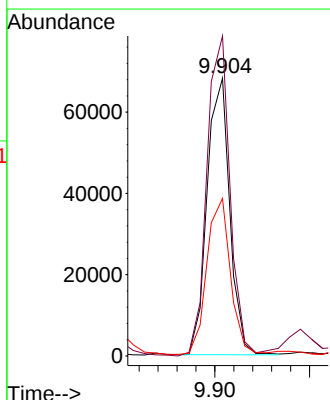
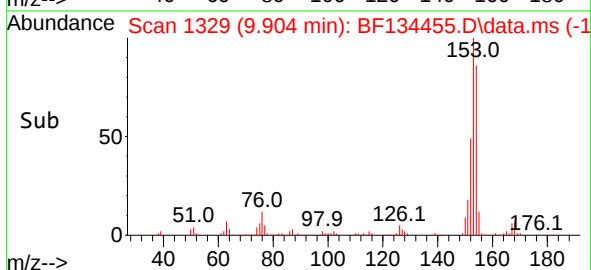
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

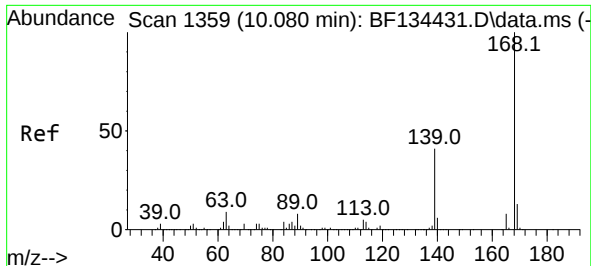


#52
Acenaphthene
Concen: 7.878 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



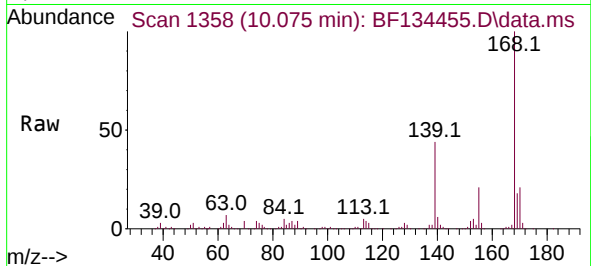
Tgt Ion:154 Resp: 56554
Ion Ratio Lower Upper
154 100
153 115.2 90.0 135.0
152 56.8 42.4 63.6





#55
Dibenzenofuran
Concen: 9.819 ng
RT: 10.075 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

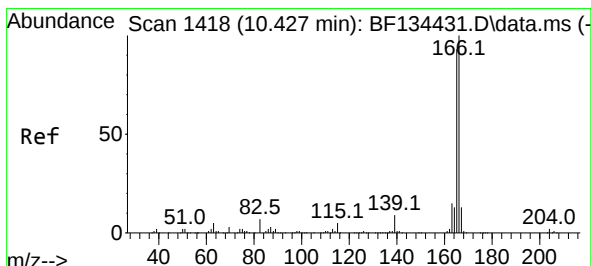
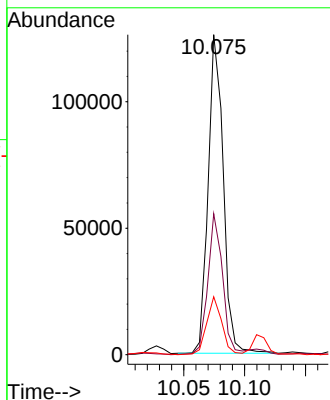
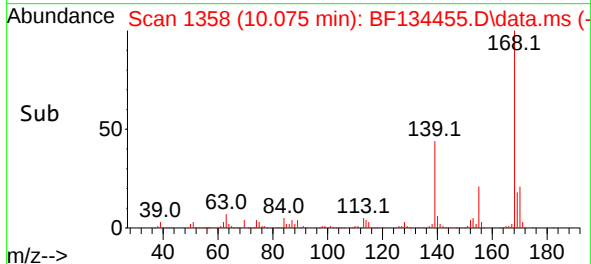
Instrument :
BNA_F
ClientSampleId :
TP11



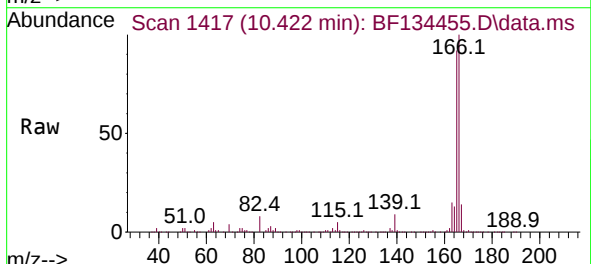
Tgt Ion:168 Resp: 108490
Ion Ratio Lower Upper
168 100
139 44.1 33.4 50.2
169 18.1 10.6 15.8

Manual Integrations
APPROVED

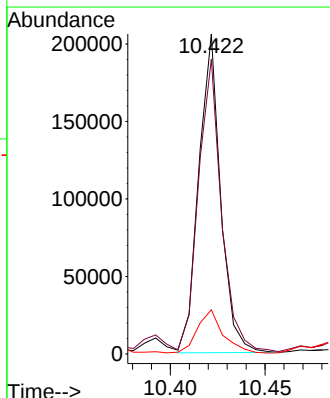
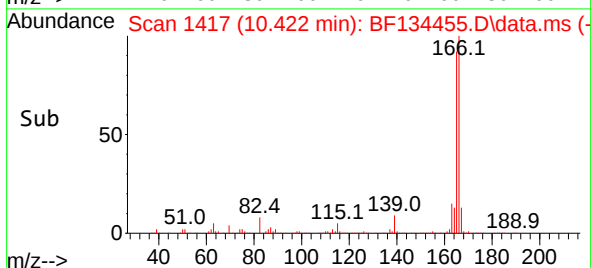
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

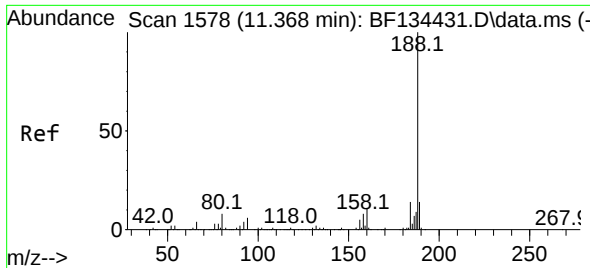


#58
Fluorene
Concen: 18.535 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.005 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



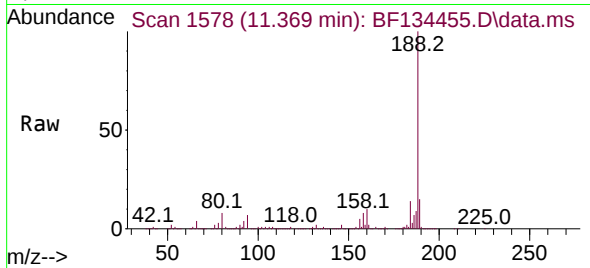
Tgt Ion:166 Resp: 165212
Ion Ratio Lower Upper
166 100
165 92.2 74.5 111.7
167 13.8 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

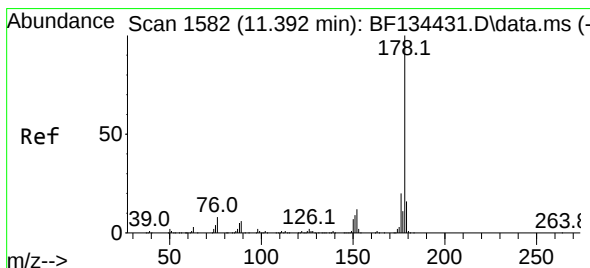
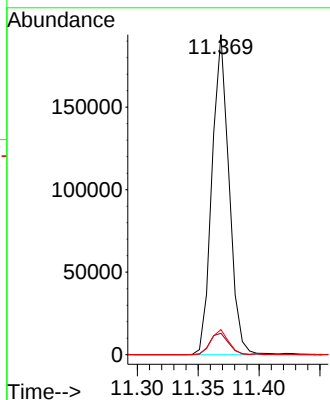
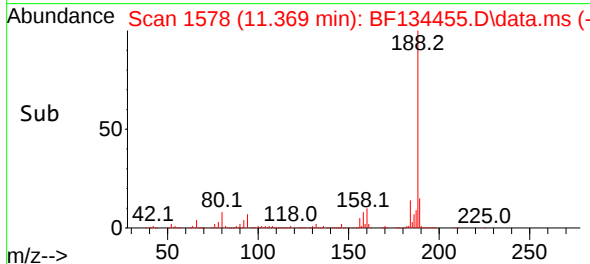
Instrument :
BNA_F
ClientSampleId :
TP11



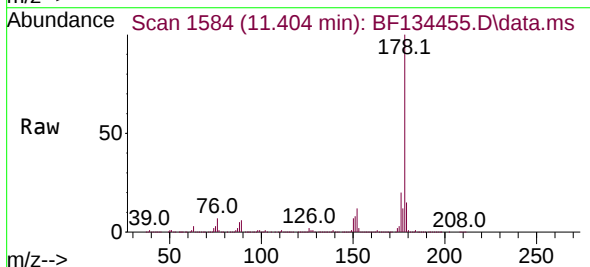
Tgt Ion:188 Resp: 188730
Ion Ratio Lower Upper
188 100
94 6.7 5.1 7.7
80 7.9 6.6 9.8

Manual Integrations
APPROVED

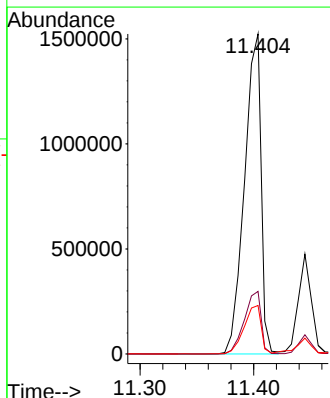
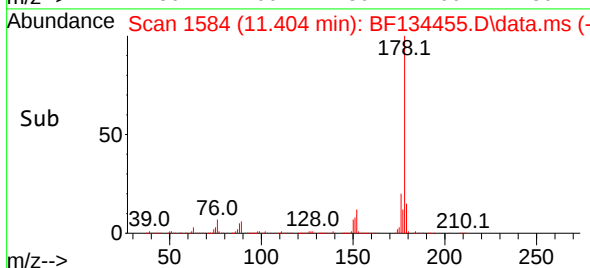
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

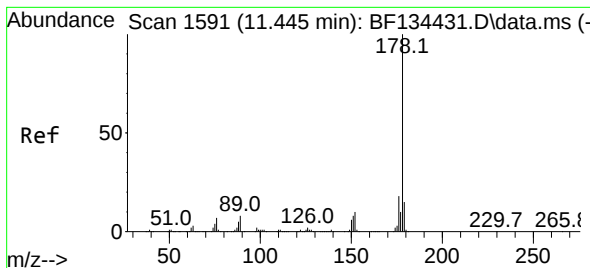


#71
Phenanthrene
Concen: 157.183 ng
RT: 11.404 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



Tgt Ion:178 Resp: 1549953
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.6
179 15.2 12.7 19.1





#72

Anthracene

Concen: 35.911 ng

RT: 11.445 min Scan# 1591

Delta R.T. 0.000 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

Instrument :

BNA_F

ClientSampleId :

TP11

Tgt Ion:178 Resp: 365480

Ion Ratio Lower Upper

178 100

176 19.2 14.6 21.8

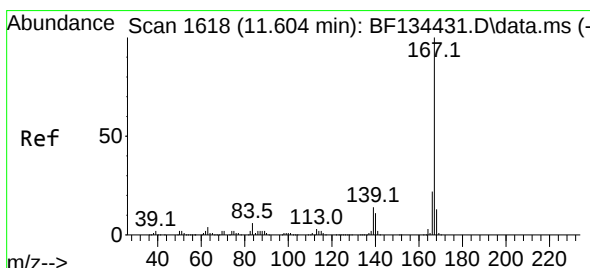
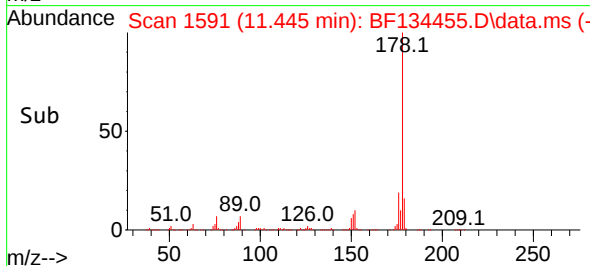
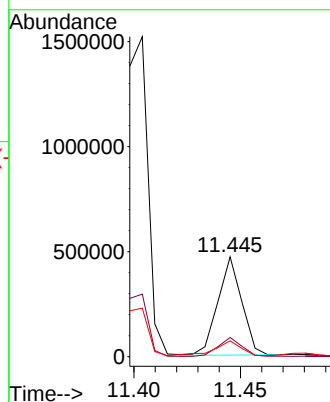
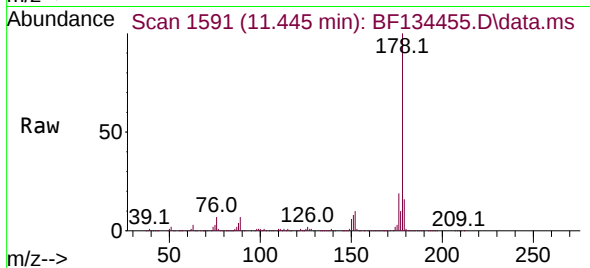
179 15.8 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/25/2023

Supervised By :mohammad ahmed 07/25/2023



#73

Carbazole

Concen: 10.269 ng

RT: 11.604 min Scan# 1618

Delta R.T. 0.000 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

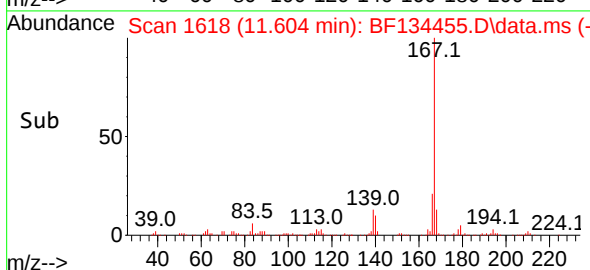
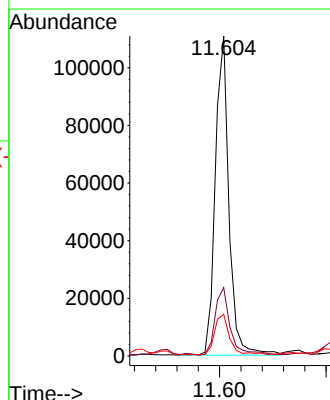
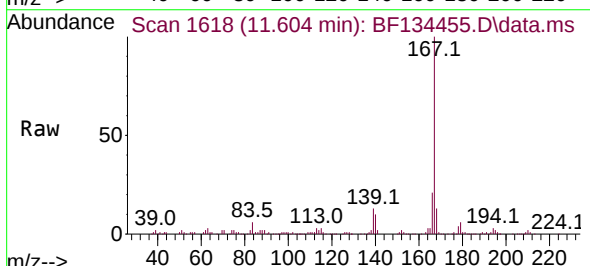
Tgt Ion:167 Resp: 98419

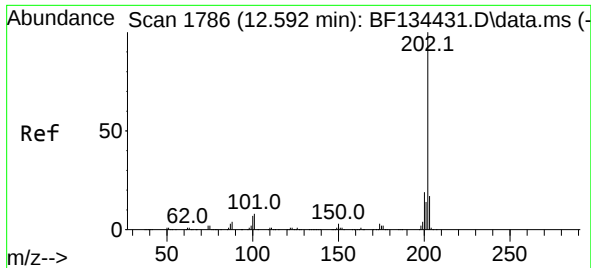
Ion Ratio Lower Upper

167 100

166 21.3 17.5 26.3

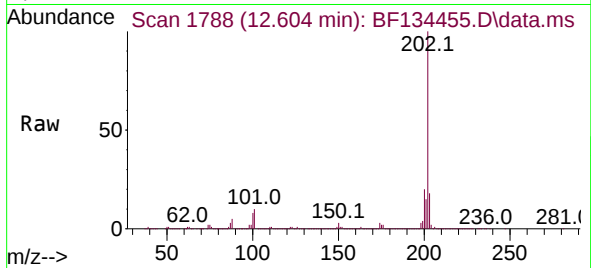
139 13.0 11.0 16.4





#75
Fluoranthene
Concen: 188.040 ng
RT: 12.604 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

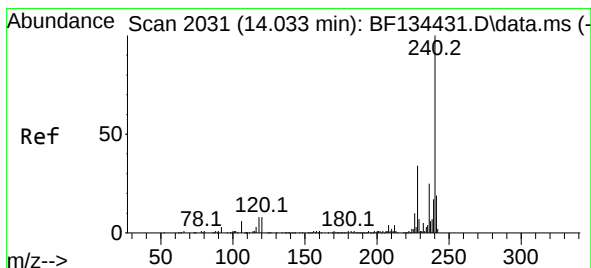
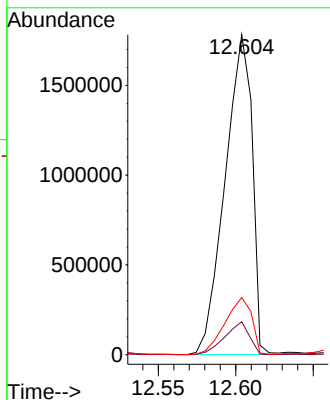
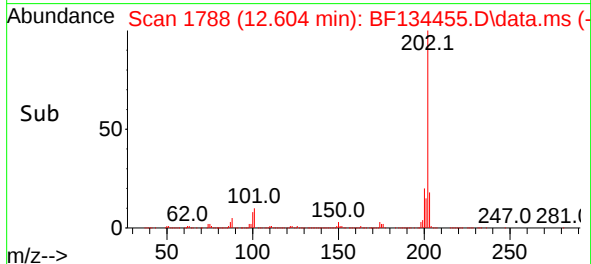
Instrument :
BNA_F
ClientSampleId :
TP11



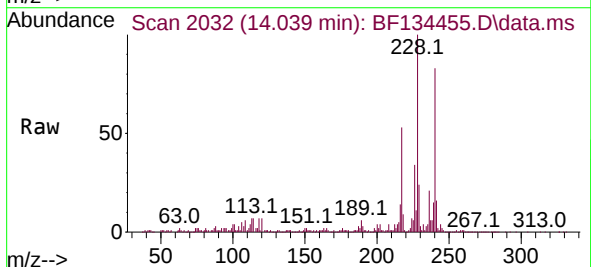
Tgt Ion:202 Resp: 2161000
Ion Ratio Lower Upper
202 100
101 10.3 0.0 28.5
203 17.9 0.0 37.5

Manual Integrations
APPROVED

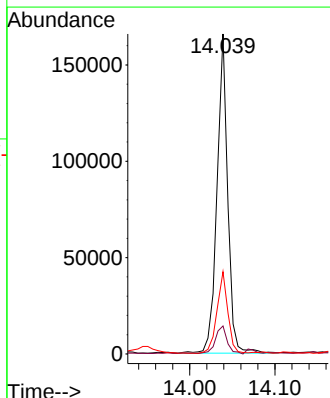
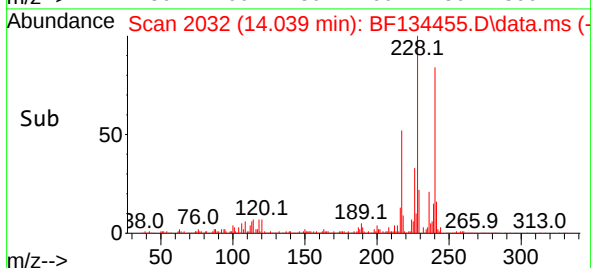
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

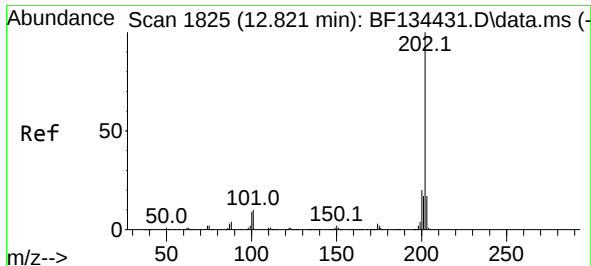


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



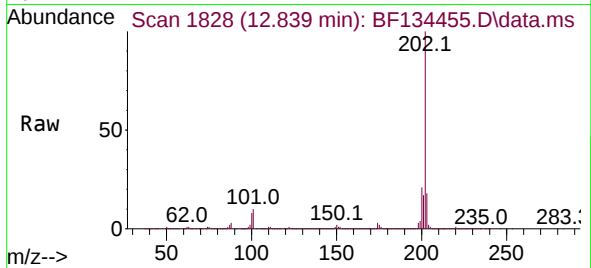
Tgt Ion:240 Resp: 144737
Ion Ratio Lower Upper
240 100
120 8.8 6.6 10.0
236 25.7 20.2 30.2





#78
Pyrene
Concen: 165.313 ng
RT: 12.839 min Scan# 1828
Delta R.T. 0.018 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

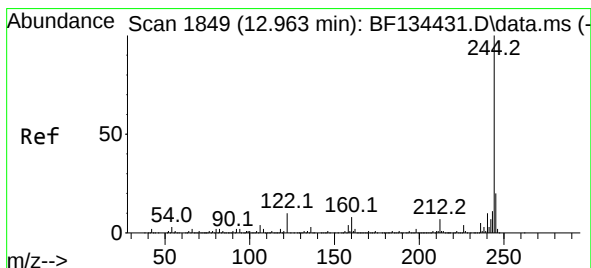
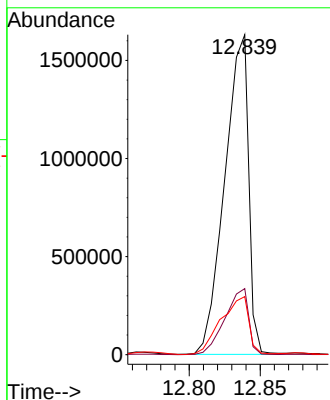
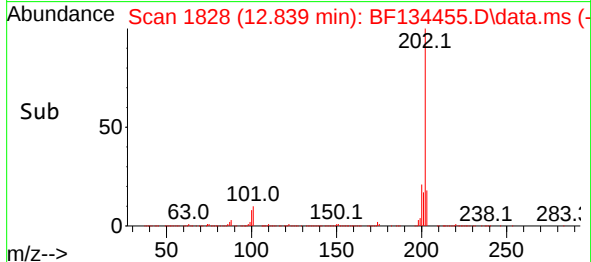
Instrument :
BNA_F
ClientSampleId :
TP11



Tgt Ion:202 Resp: 1902480
Ion Ratio Lower Upper
202 100
200 20.6 15.8 23.8
203 18.2 13.5 20.3

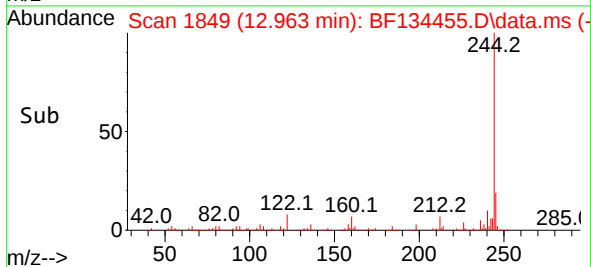
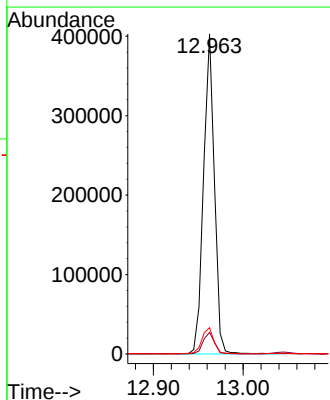
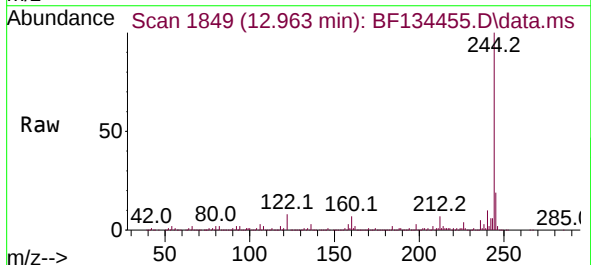
Manual Integrations
APPROVED

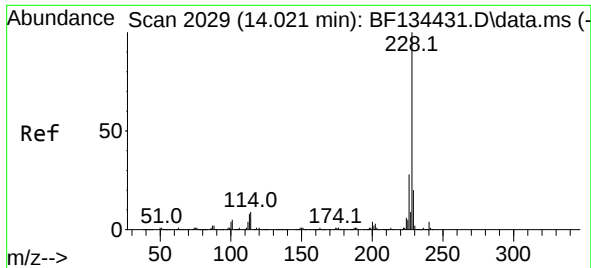
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#79
Terphenyl-d14
Concen: 40.874 ng
RT: 12.963 min Scan# 1849
Delta R.T. 0.000 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

Tgt Ion:244 Resp: 338892
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 8.2 8.0 12.0





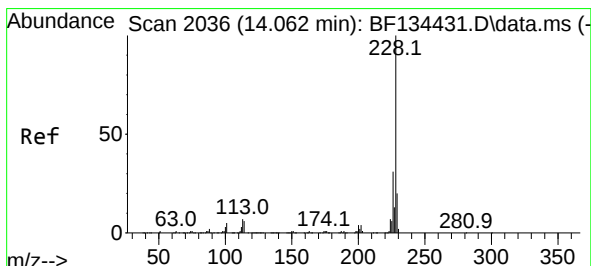
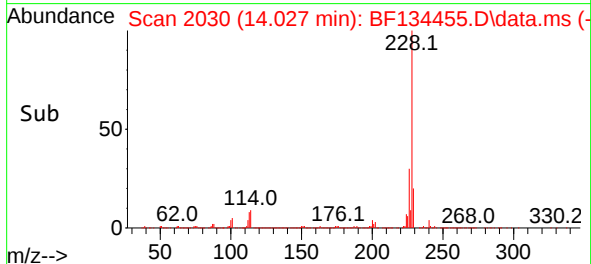
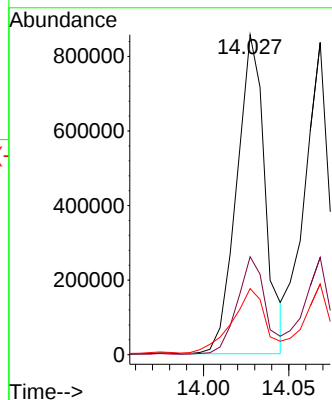
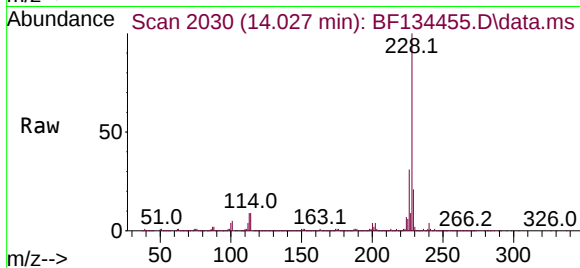
#81
Benzo(a)anthracene
Concen: 98.336 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

Instrument :
BNA_F
ClientSampleId :
TP11

Tgt Ion:228 Resp: 993000
Ion Ratio Lower Upper
228 100
226 30.6 22.3 33.5
229 20.6 15.8 23.6

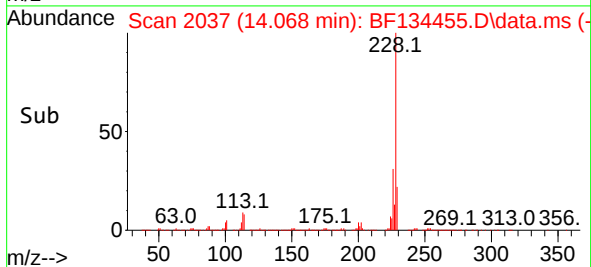
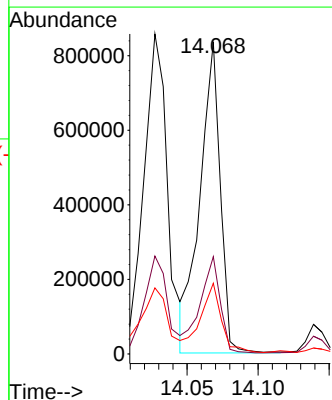
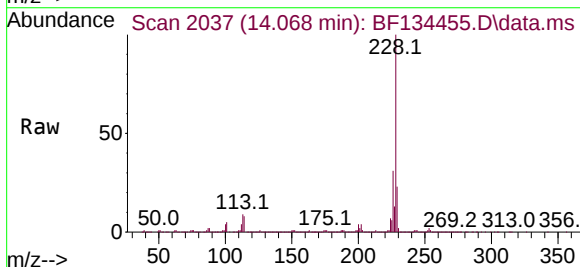
Manual Integrations
APPROVED

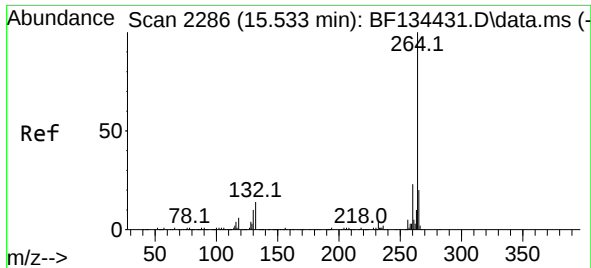
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#83
Chrysene
Concen: 86.410 ng
RT: 14.068 min Scan# 2037
Delta R.T. 0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

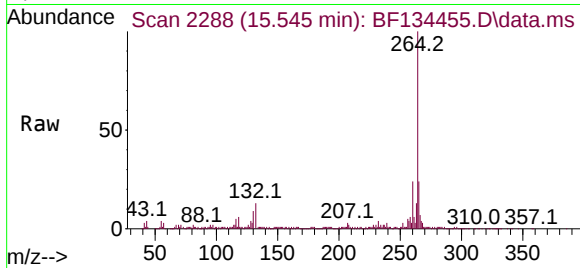
Tgt Ion:228 Resp: 834596
Ion Ratio Lower Upper
228 100
226 31.2 24.5 36.7
229 22.7 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

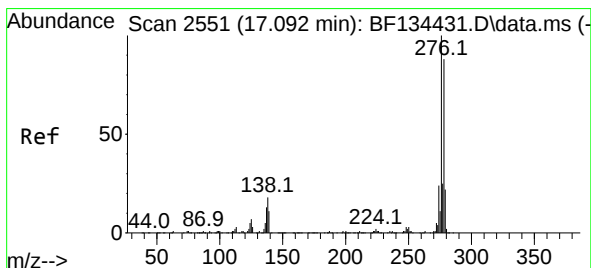
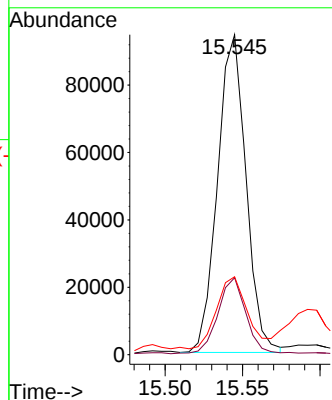
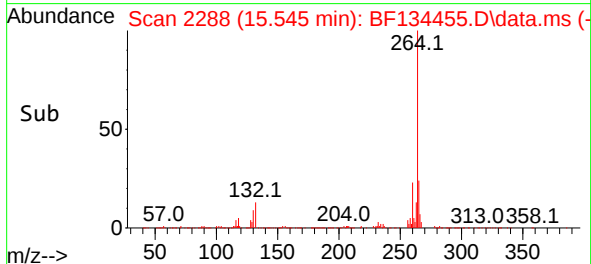
Instrument :
BNA_F
ClientSampleId :
TP11



Tgt Ion:264 Resp: 120445
Ion Ratio Lower Upper
264 100
260 24.1 18.4 27.6
265 24.4 15.8 23.8

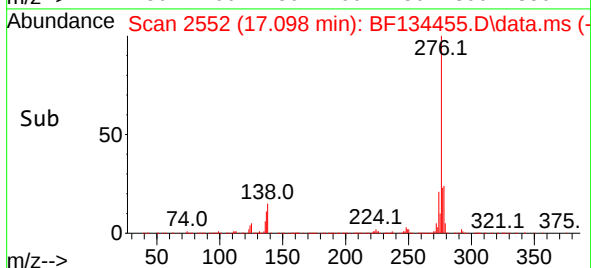
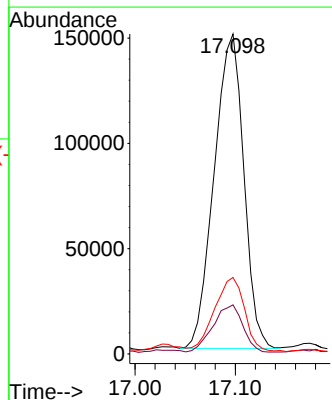
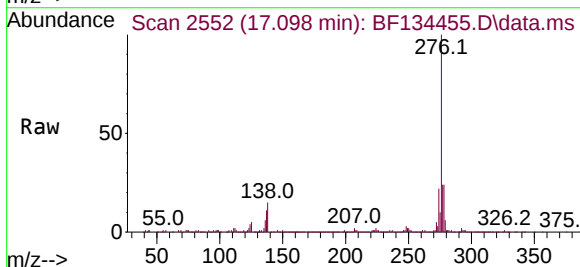
Manual Integrations
APPROVED

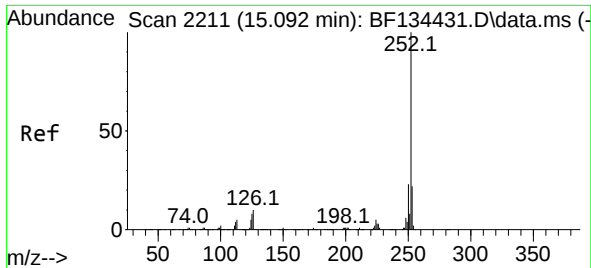
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 38.865 ng
RT: 17.098 min Scan# 2552
Delta R.T. 0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

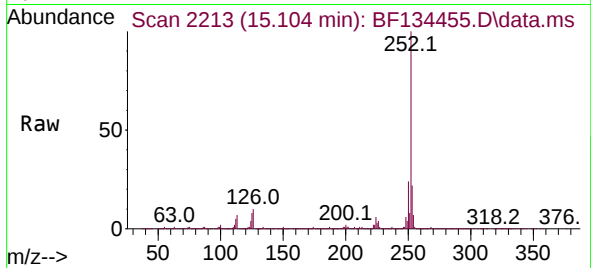
Tgt Ion:276 Resp: 305820
Ion Ratio Lower Upper
276 100
138 15.8 14.2 21.4
277 24.2 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 110.598 ng m
RT: 15.104 min Scan# 2212
Delta R.T. 0.012 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15

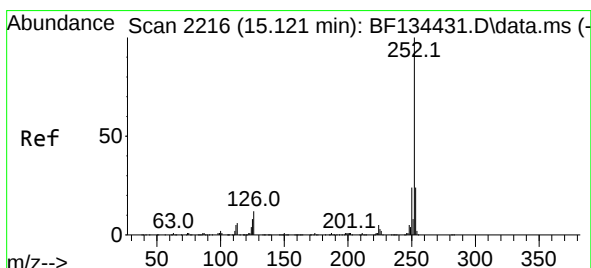
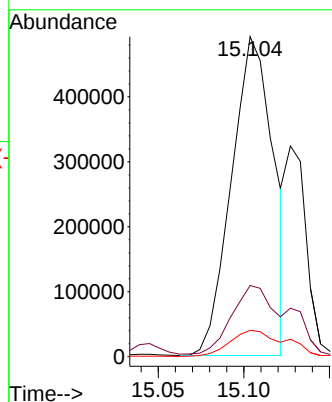
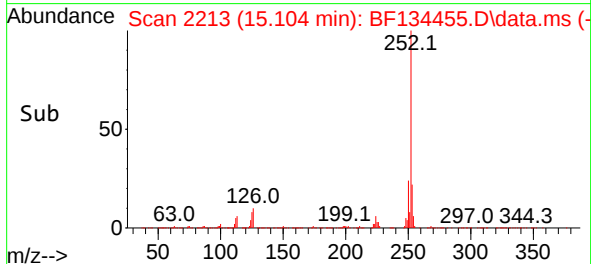
Instrument :
BNA_F
ClientSampleId :
TP11



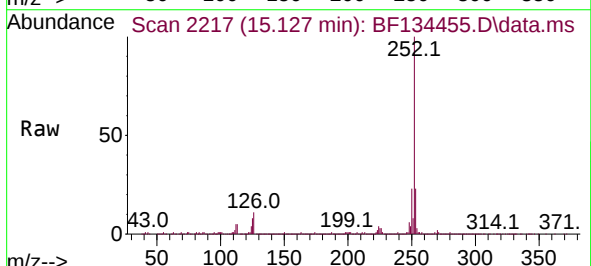
Tgt Ion:252 Resp: 83336
Ion Ratio Lower Upper
252 100
253 22.2 17.3 25.9
125 8.3 6.0 9.0

Manual Integrations
APPROVED

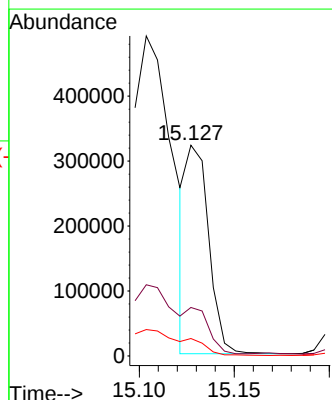
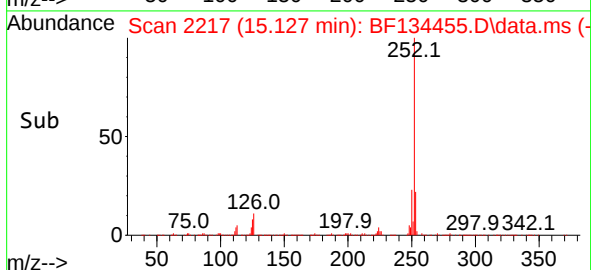
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

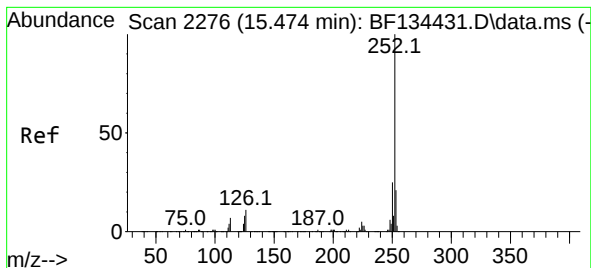


#89
Benzo(k)fluoranthene
Concen: 35.433 ng m
RT: 15.127 min Scan# 2217
Delta R.T. 0.006 min
Lab File: BF134455.D
Acq: 25 Jul 2023 05:15



Tgt Ion:252 Resp: 262564
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 8.2 6.3 9.5





#90

Benzo(a)pyrene

Concen: 79.986 ng

RT: 15.486 min Scan# 2278

Delta R.T. 0.012 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

Instrument :

BNA_F

ClientSampleId :

TP11

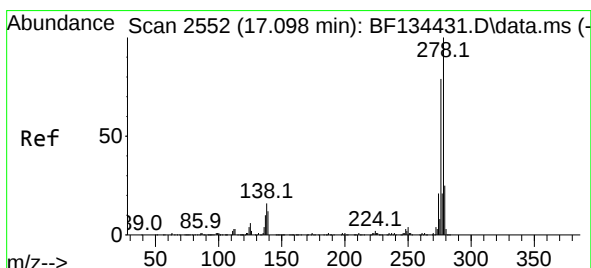
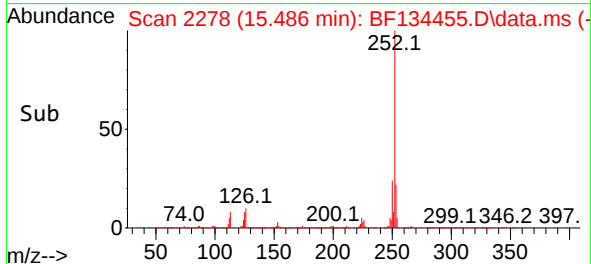
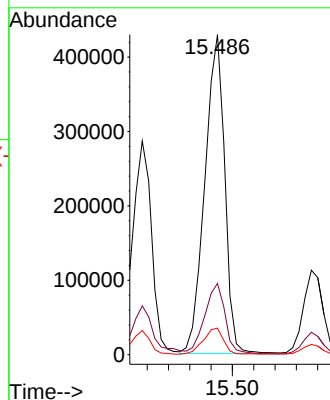
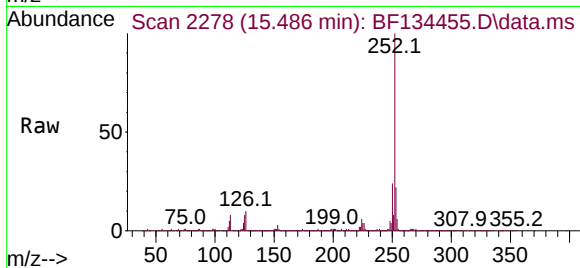
Tgt Ion:252 Resp: 557092
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.0 25.4
 125 8.3 6.2 9.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/25/2023

Supervised By :mohammad ahmed 07/25/2023



#91

Dibenzo(a,h)anthracene

Concen: 13.052 ng m

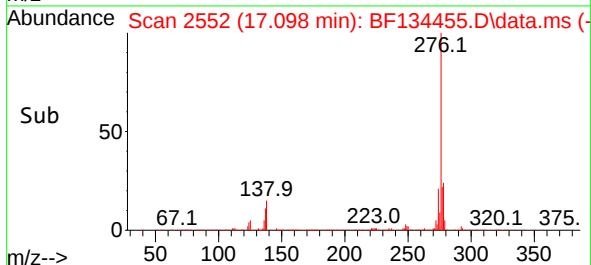
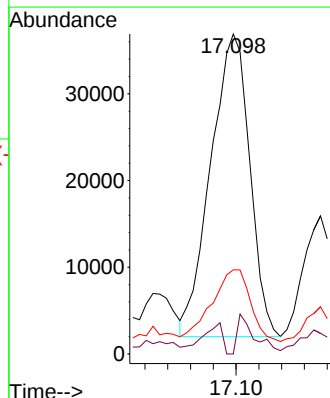
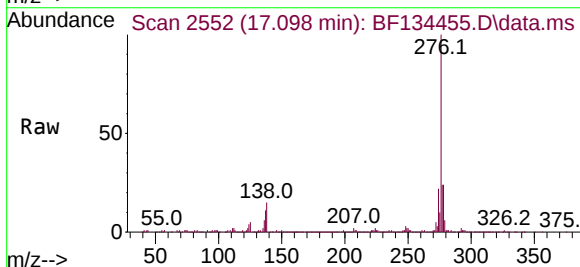
RT: 17.098 min Scan# 2552

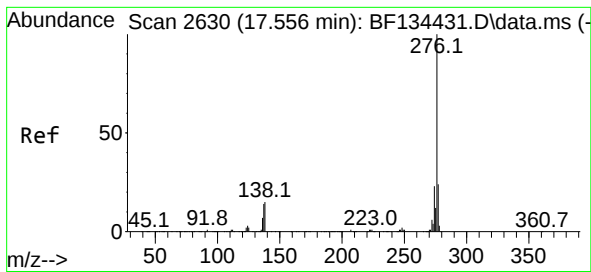
Delta R.T. 0.000 min

Lab File: BF134455.D

Acq: 25 Jul 2023 05:15

Tgt Ion:278 Resp: 82943
 Ion Ratio Lower Upper
 278 100
 139 0.0 10.0 15.0#
 279 26.3 19.7 29.5





#92

Benzo(g,h,i)perylene

Concen: 43.260 ng

RT: 17.568 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF134455.D

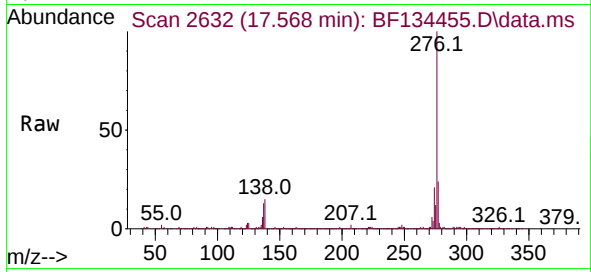
Acq: 25 Jul 2023 05:15

Instrument :

BNA_F

ClientSampleId :

TP11



Tgt Ion:276 Resp: 28226

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.6

138 15.1 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/25/2023

Supervised By :mohammad ahmed 07/25/2023

