

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110922\
 Data File : BF131113.D
 Acq On : 10 Nov 2022 04:31
 Operator : CG\JU
 Sample : N5511-03 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-04-110722

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/10/2022
 Supervised By : Jagrut Upadhyay 11/10/2022

Quant Time: Nov 10 05:21:59 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 10 04:15:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	94522	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	341964	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	159688	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	253904	20.000	ng	0.00
76) Chrysene-d12	14.080	240	193105	20.000	ng	# 0.00
86) Perylene-d12	15.580	264	138849	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	270119	48.599	ng	0.00
7) Phenol-d6	6.516	99	326694	44.959	ng	0.00
23) Nitrobenzene-d5	7.457	82	209012	27.577	ng	0.00
42) 2,4,6-Tribromophenol	10.728	330	65875	39.916	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	364720	31.883	ng	0.00
79) Terphenyl-d14	13.016	244	323679	29.389	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.198	128	353154	18.900	ng	99
37) 2-Methylnaphthalene	8.892	142	150189	12.469	ng	99
38) 1-Methylnaphthalene	8.986	142	96893	8.214	ng	96
46) 1,1'-Biphenyl	9.351	154	31080	2.517	ng	96
49) Acenaphthylene	9.798	152	62105	4.057	ng	97
52) Acenaphthene	9.969	154	153815	16.843	ng	99
55) Dibenzofuran	10.139	168	235576	17.419	ng	97
58) Fluorene	10.486	166	304394	27.712	ng	98
71) Phenanthrene	11.463	178	1637064	117.231	ng	99
72) Anthracene	11.510	178	507250	37.426	ng	99
73) Carbazole	11.657	167	168202	13.956	ng	99
75) Fluoranthene	12.657	202	1628152	116.477	ng	100
78) Pyrene	12.886	202	1430124	86.321	ng	98
81) Benzo(a)anthracene	14.074	228	752761	54.538	ng	98
83) Chrysene	14.110	228	603011	46.260	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	219929	21.665	ng	97
88) Benzo(b)fluoranthene	15.139	252	565150m	57.570	ng	
89) Benzo(k)fluoranthene	15.168	252	218259m	23.132	ng	
90) Benzo(a)pyrene	15.521	252	420989	53.491	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	57224	9.558	ng	# 86
92) Benzo(g,h,i)perylene	17.562	276	206181	23.560	ng	99

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

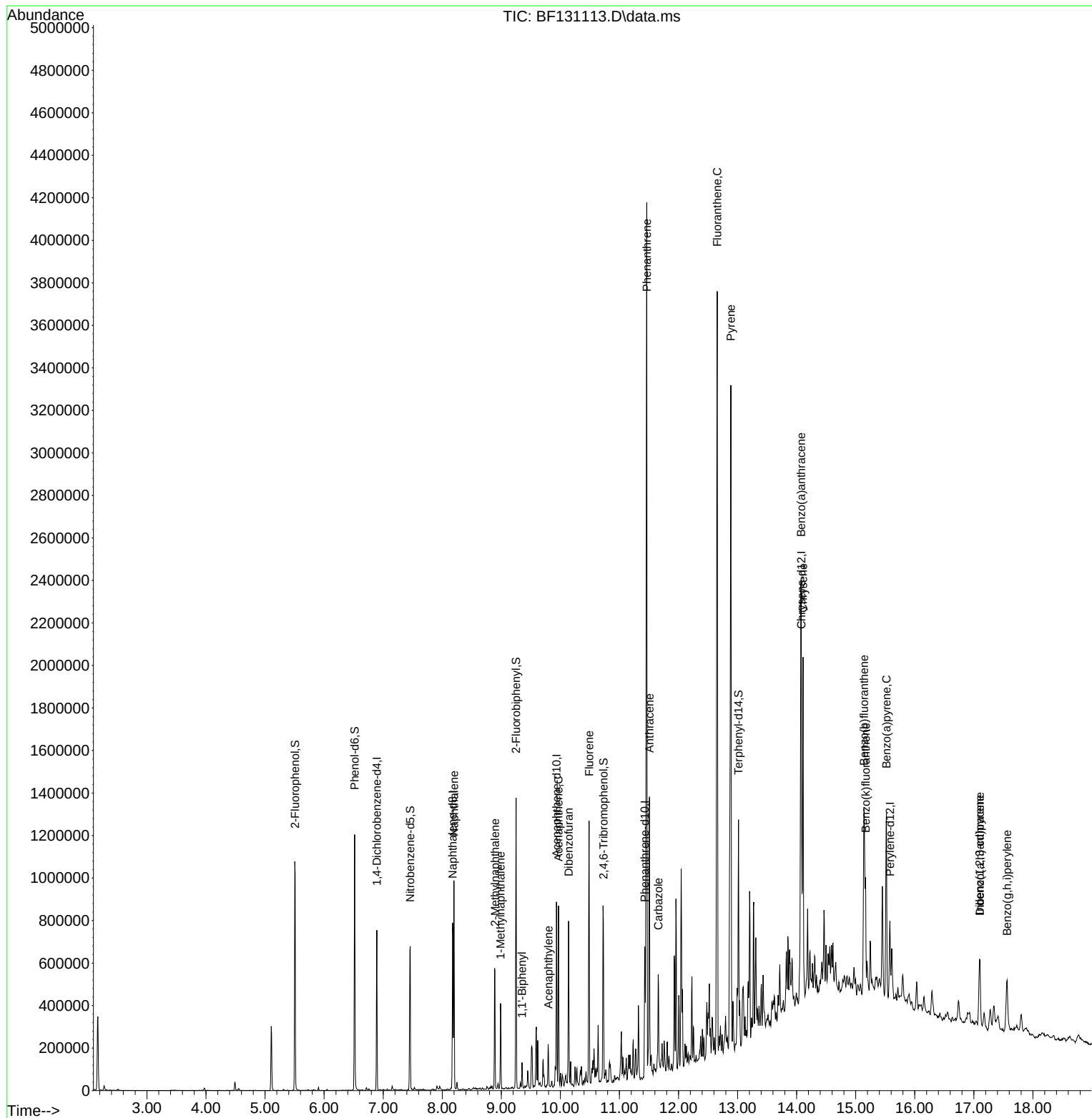
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110922\
Data File : BF131113.D
Acq On : 10 Nov 2022 04:31
Operator : CG\JU
Sample : N5511-03 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

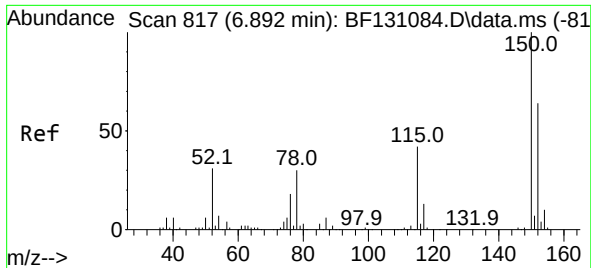
Instrument :
BNA_F
ClientSampleId :
PL-04-110722

Quant Time: Nov 10 05:21:59 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 10 04:15:17 2022
Response via : Initial Calibration

Manual Integrations
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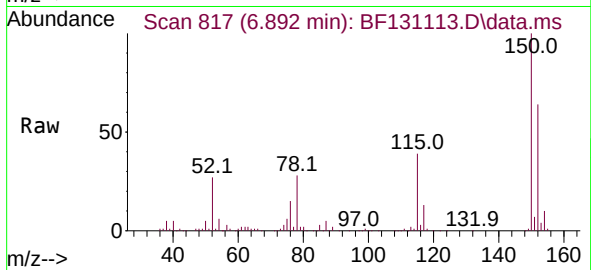
Reviewed By : Christian Giraldo 11/10/2022
Supervised By : Jagrut Upadhyay 11/10/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

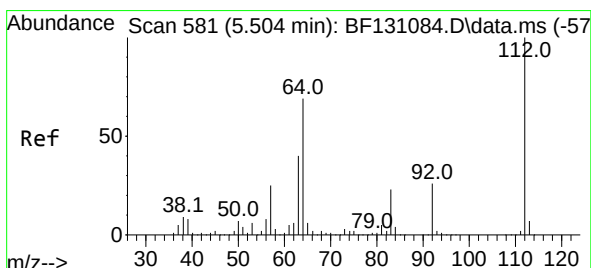
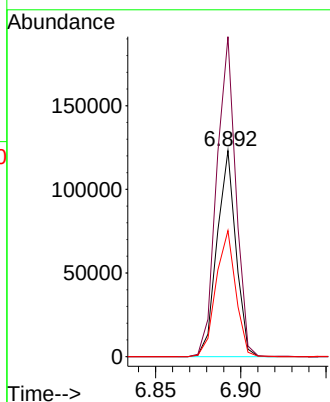
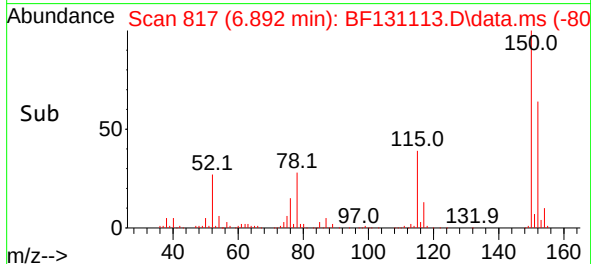
Instrument :
BNA_F
ClientSampleId :
PL-04-110722



Tgt Ion:152 Resp: 94522
Ion Ratio Lower Upper
152 100
150 155.3 125.5 188.3
115 61.1 52.2 78.2

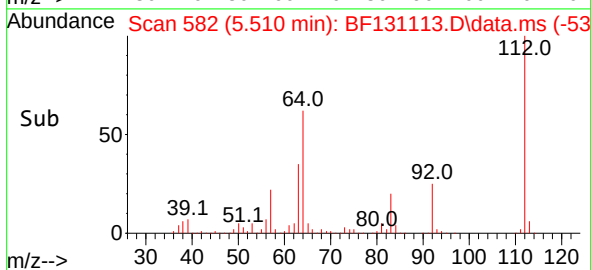
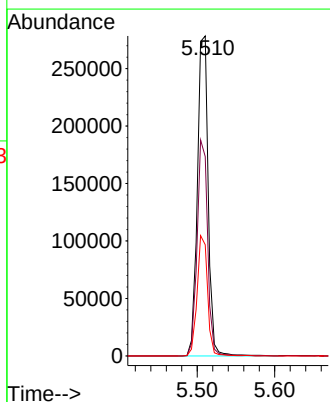
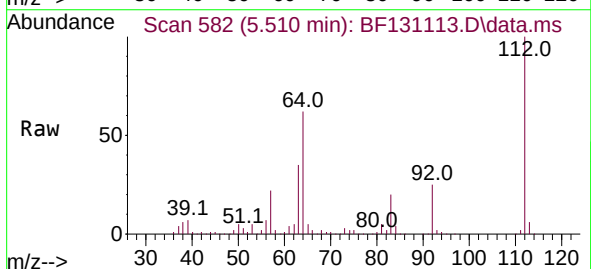
Manual Integrations
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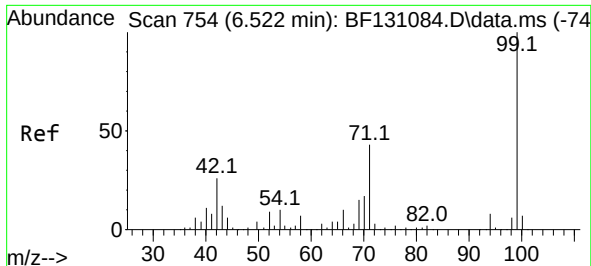
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#5
2-Fluorophenol
Concen: 48.599 ng
RT: 5.510 min Scan# 582
Delta R.T. 0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

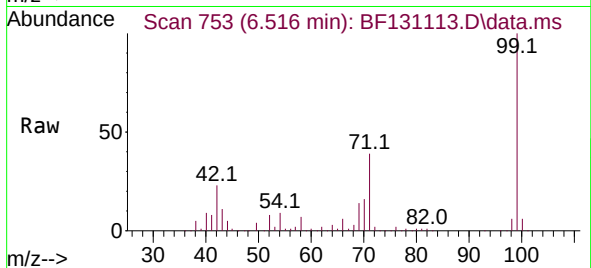
Tgt Ion:112 Resp: 270119
Ion Ratio Lower Upper
112 100
64 62.3 55.1 82.7
63 34.7 32.4 48.6





#7
Phenol-d6
Concen: 44.959 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

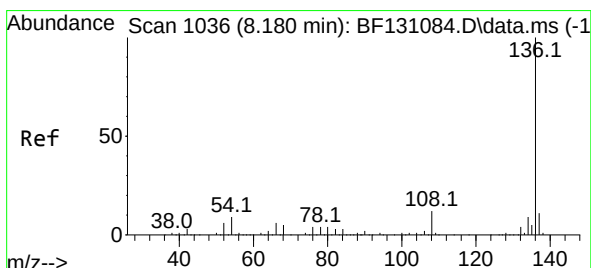
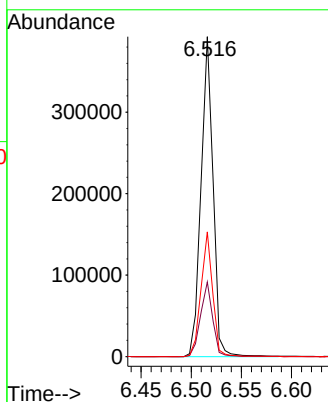
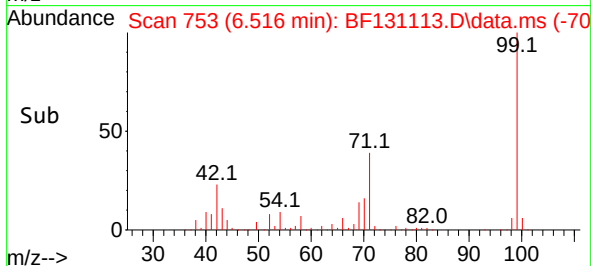
Instrument :
BNA_F
ClientSampleId :
PL-04-110722



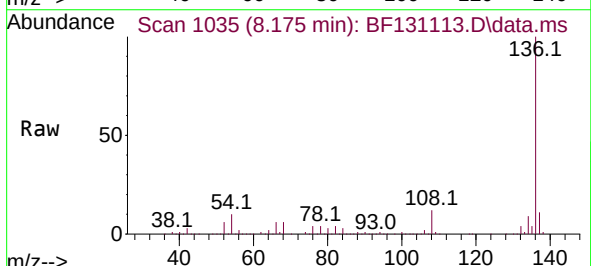
Tgt Ion: 99 Resp: 326694
Ion Ratio Lower Upper
99 100
42 23.3 20.8 31.2
71 39.0 34.2 51.4

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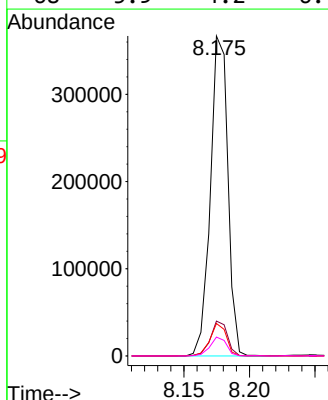
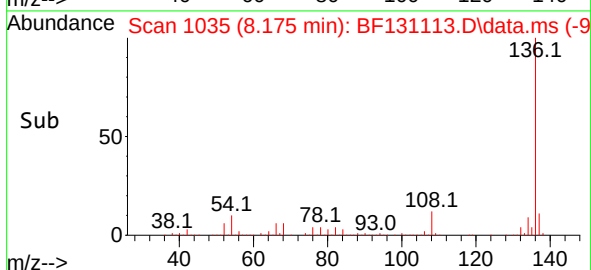
Reviewed By :Christian Giraldo 11/10/2022
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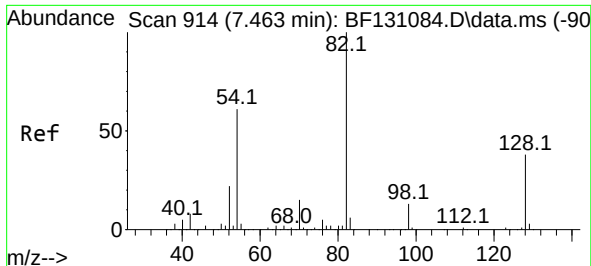


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1035
Delta R.T. -0.005 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31



Tgt Ion:136 Resp: 341964
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 10.1 7.2 10.8
68 5.9 4.2 6.4





#23

Nitrobenzene-d5

Concen: 27.577 ng

RT: 7.457 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722

Tgt Ion: 82 Resp: 209012

Ion Ratio Lower Upper

82 100

128 44.0 30.5 45.7

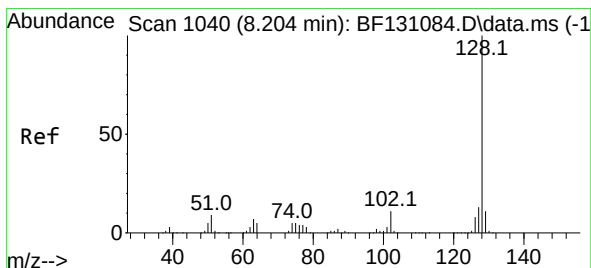
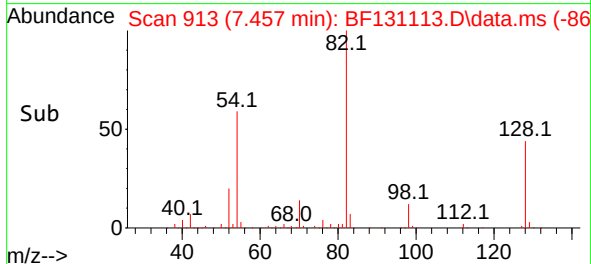
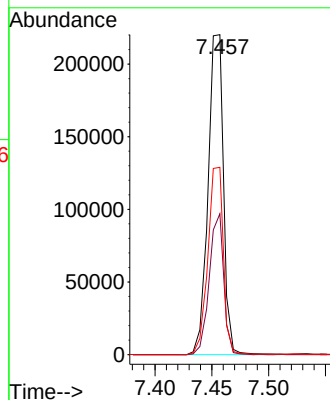
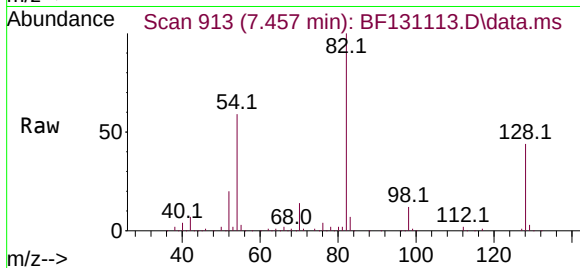
54 58.5 49.1 73.7

Manual Integrations

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#31

Naphthalene

Concen: 18.900 ng

RT: 8.198 min Scan# 1039

Delta R.T. -0.006 min

Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

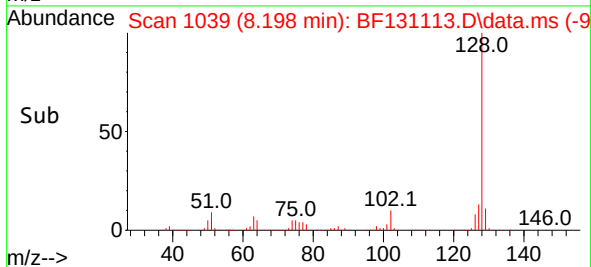
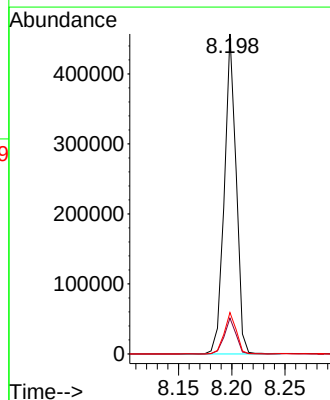
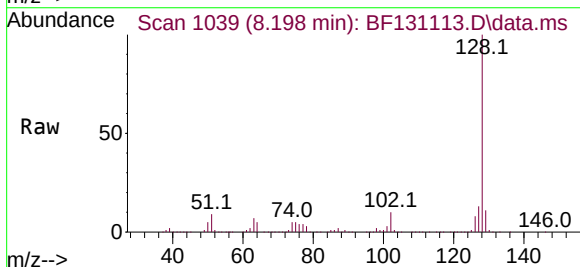
Tgt Ion:128 Resp: 353154

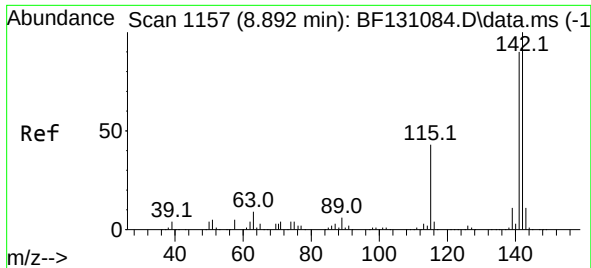
Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

127 12.9 10.8 16.2





#37
2-Methylnaphthalene
Concen: 12.469 ng
RT: 8.892 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

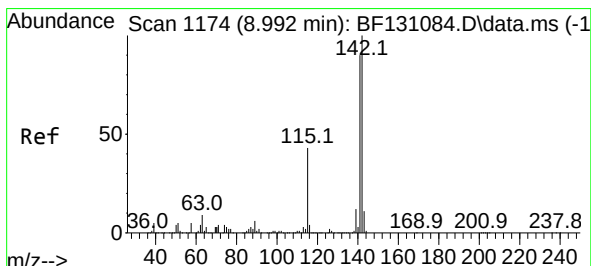
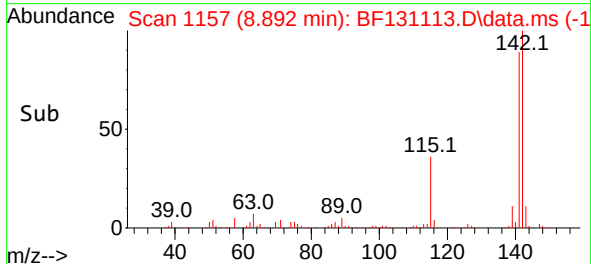
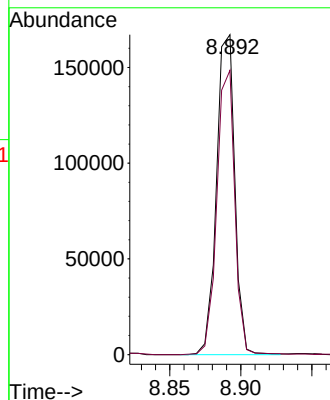
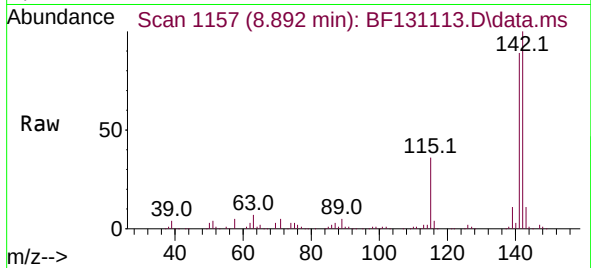
PL-04-110722

Tgt Ion:142 Resp: 150189
Ion Ratio Lower Upper
142 100
141 88.8 72.0 108.0

Manual Integrations

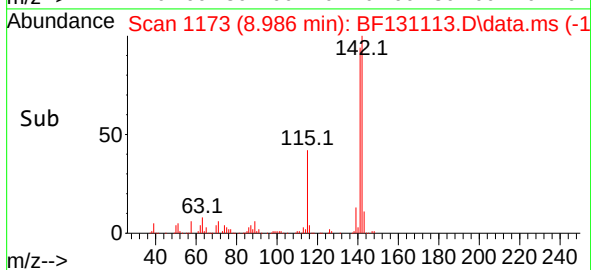
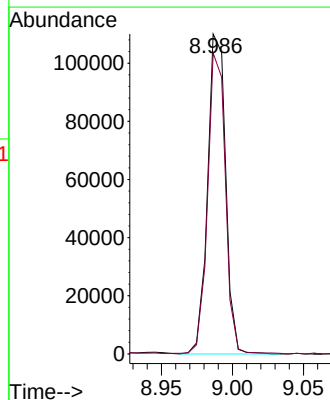
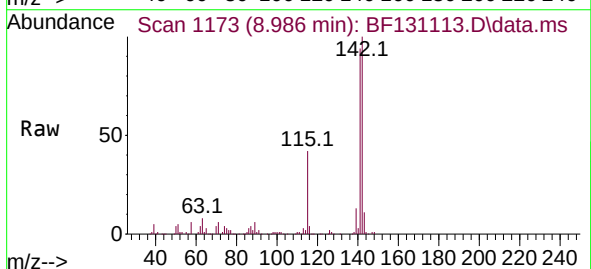
APPROVED

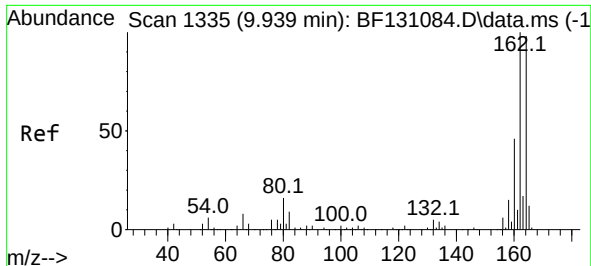
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#38
1-Methylnaphthalene
Concen: 8.214 ng
RT: 8.986 min Scan# 1173
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Tgt Ion:142 Resp: 96893
Ion Ratio Lower Upper
142 100
141 94.0 72.1 108.1





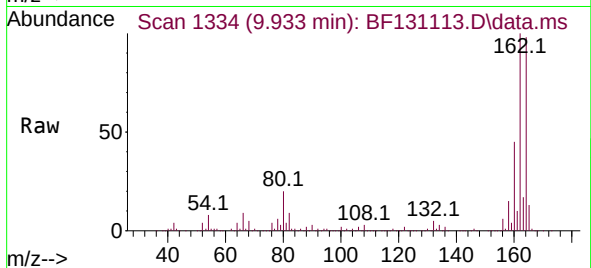
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722

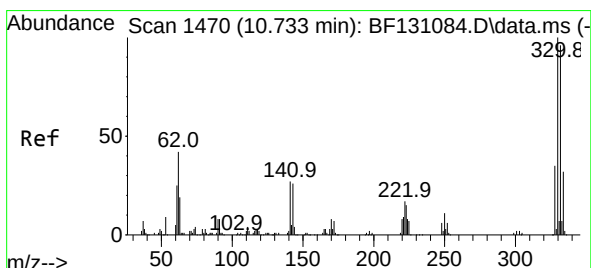
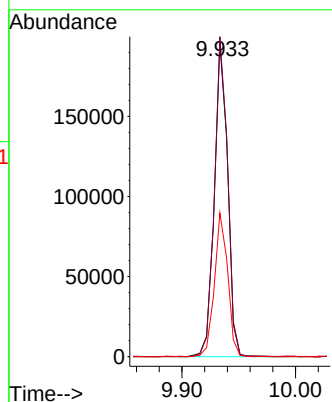
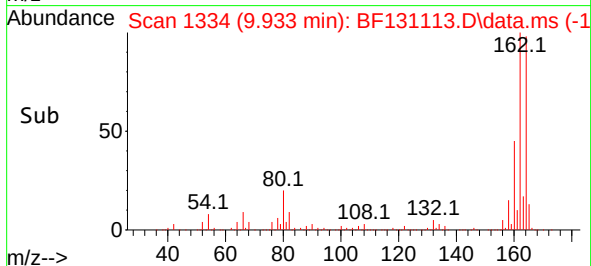


Tgt Ion:164 Resp: 159688
Ion Ratio Lower Upper
164 100
162 102.2 81.7 122.5
160 45.9 37.4 56.2

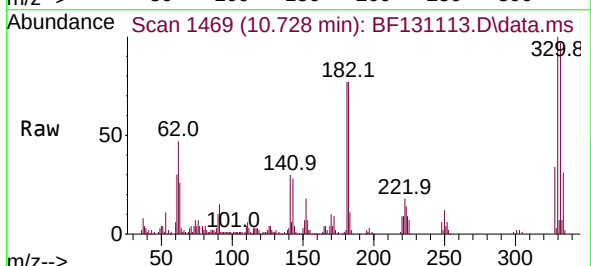
Manual Integrations

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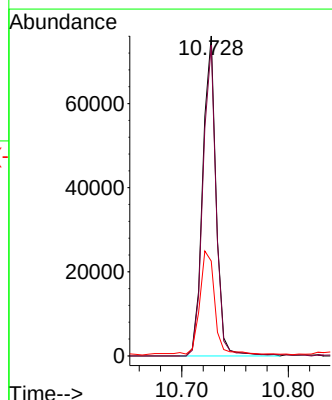
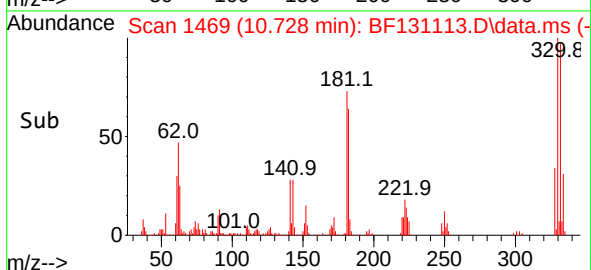
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

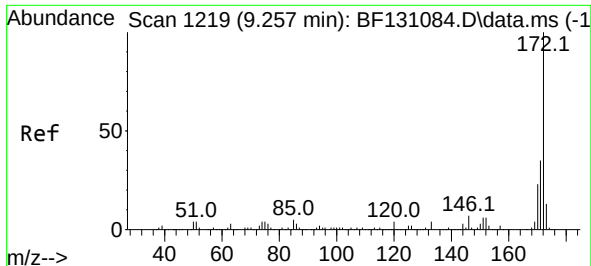


#42
2,4,6-Tribromophenol
Concen: 39.916 ng
RT: 10.728 min Scan# 1469
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31



Tgt Ion:330 Resp: 65875
Ion Ratio Lower Upper
330 100
332 95.6 77.0 115.4
141 38.4 28.5 42.7





#45

2-Fluorobiphenyl

Concen: 31.883 ng

RT: 9.251 min Scan# 1218

Delta R.T. -0.006 min

Lab File: BF131113.D

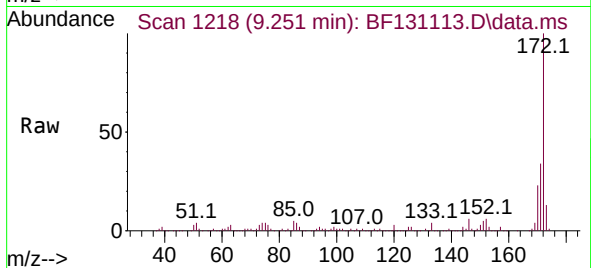
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722



Tgt Ion:172 Resp: 364720

Ion Ratio Lower Upper

172 100

171 34.4 27.7 41.5

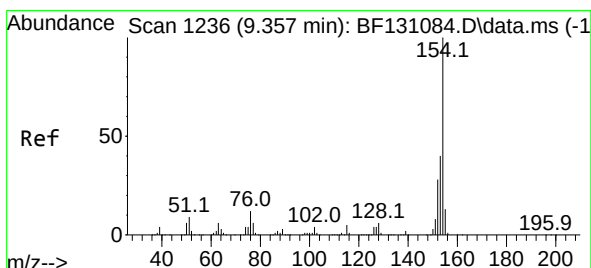
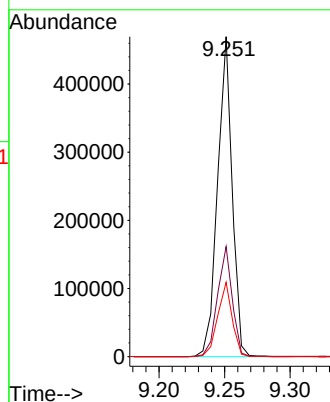
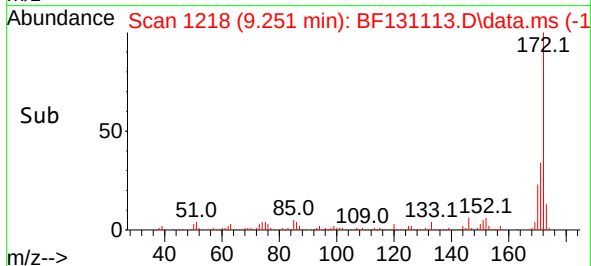
170 23.2 18.8 28.2

Manual Integrations

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#46

1,1'-Biphenyl

Concen: 2.517 ng

RT: 9.351 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

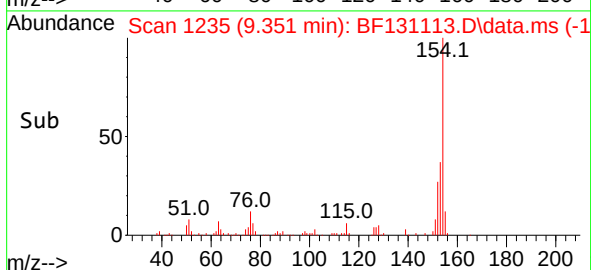
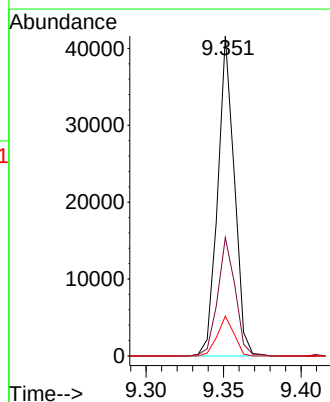
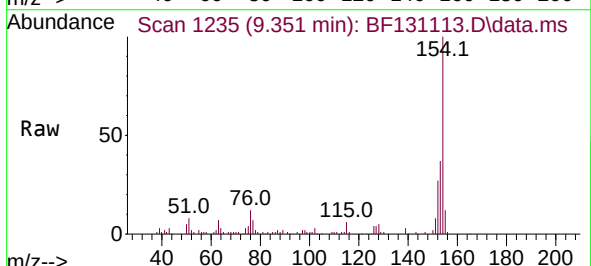
Tgt Ion:154 Resp: 31080

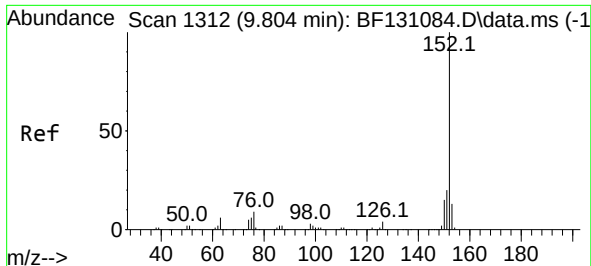
Ion Ratio Lower Upper

154 100

153 37.0 19.9 59.9

76 12.4 0.0 32.5





#49

Acenaphthylene

Concen: 4.057 ng

RT: 9.798 min Scan# 1311

Delta R.T. -0.006 min

Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722

Tgt Ion:152 Resp: 62105

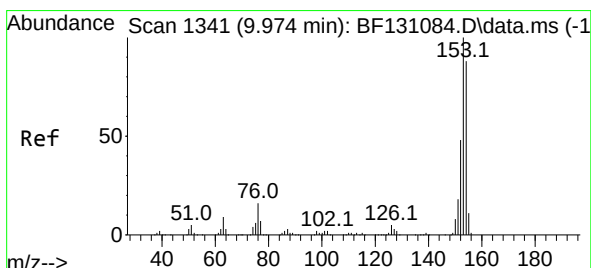
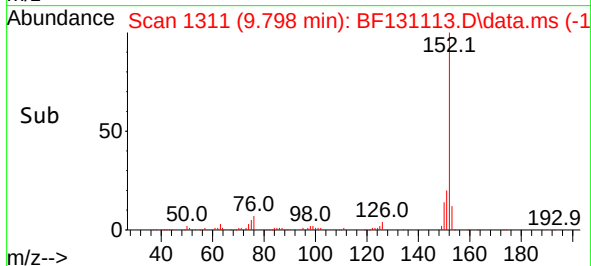
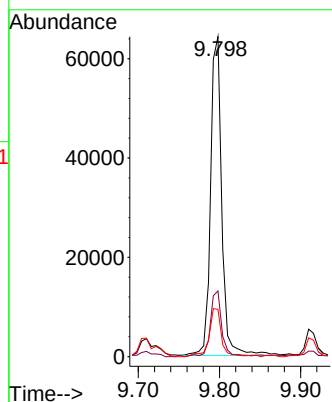
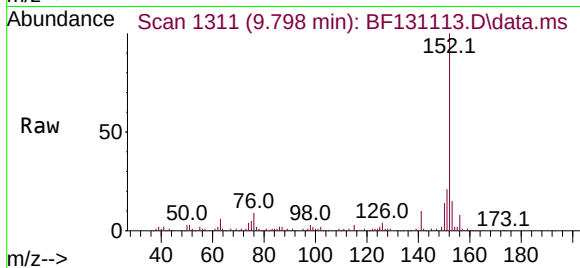
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.0	24.0
153	14.8	10.2	15.4

Manual Integrations

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Reviewed By :Christian Giraldo 11/10/2022

Supervised By :Jagrut Upadhyay 11/10/2022



#52

Acenaphthene

Concen: 16.843 ng

RT: 9.969 min Scan# 1340

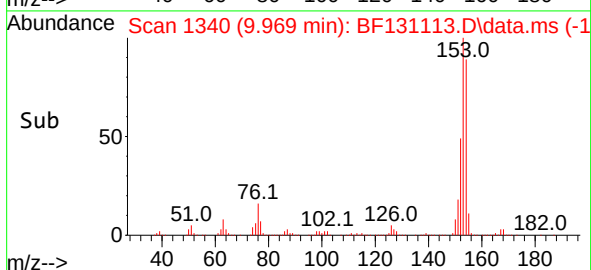
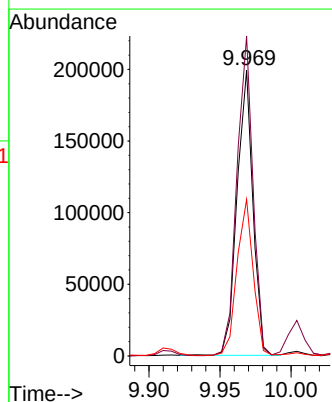
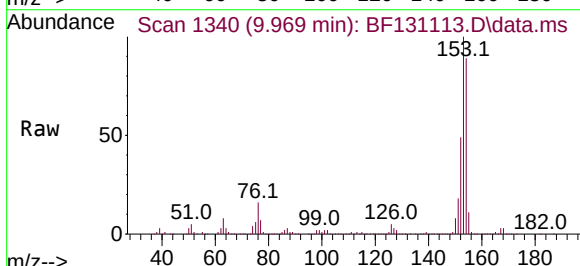
Delta R.T. -0.006 min

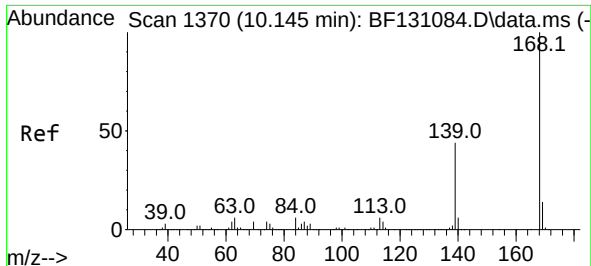
Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

Tgt Ion:154 Resp: 153815

Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.8	136.2
152	54.7	43.4	65.2





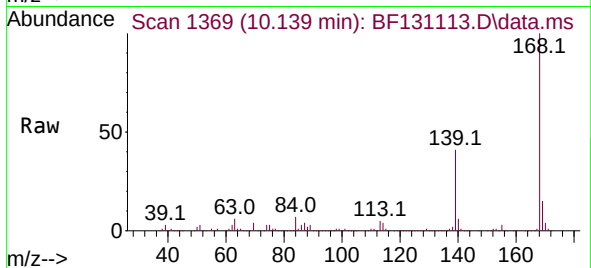
#55
Dibenzenofuran
Concen: 17.419 ng
RT: 10.139 min Scan# 1370
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722

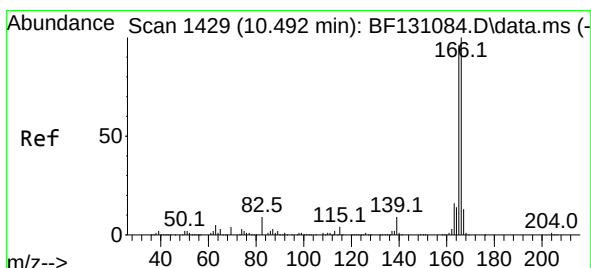
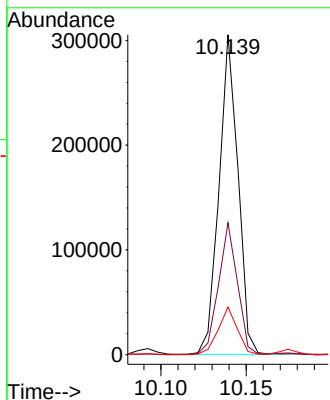
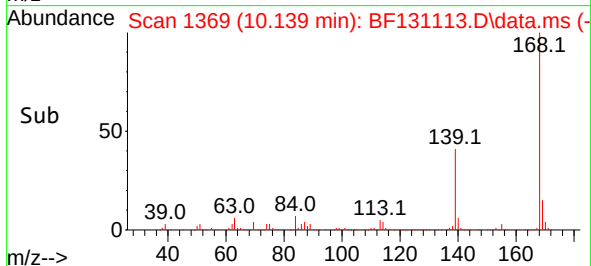


Tgt Ion:168 Resp: 235576
Ion Ratio Lower Upper
168 100
139 41.2 35.0 52.4
169 14.9 11.2 16.8

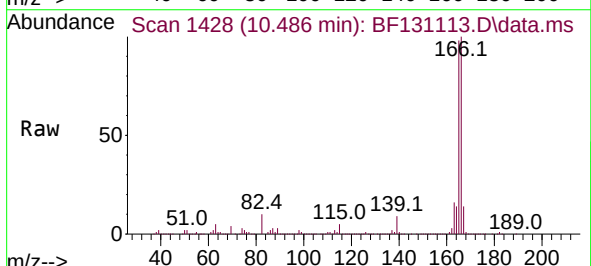
Manual Integrations

APPROVED

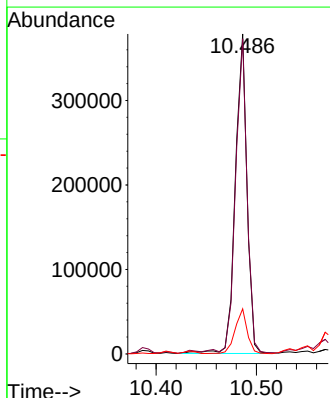
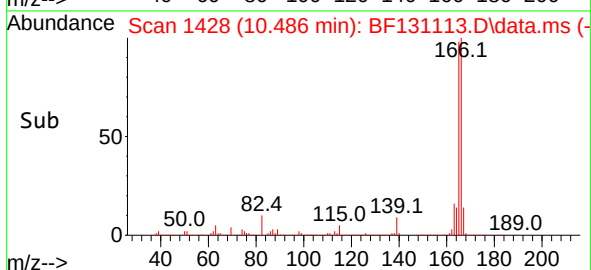
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

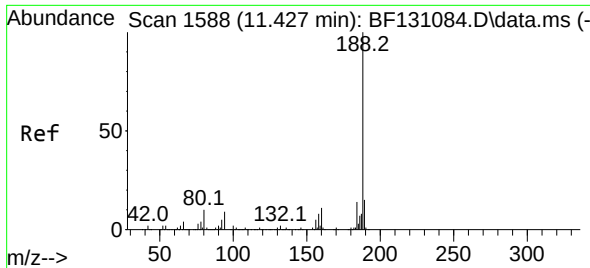


#58
Fluorene
Concen: 27.712 ng
RT: 10.486 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31



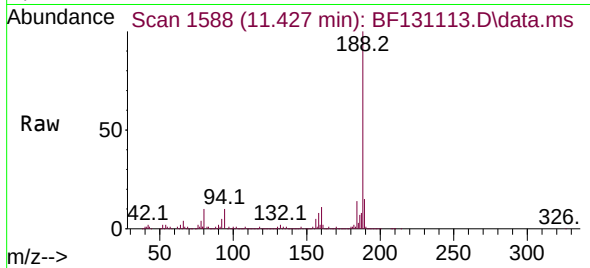
Tgt Ion:166 Resp: 304394
Ion Ratio Lower Upper
166 100
165 98.5 77.2 115.8
167 14.1 10.2 15.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

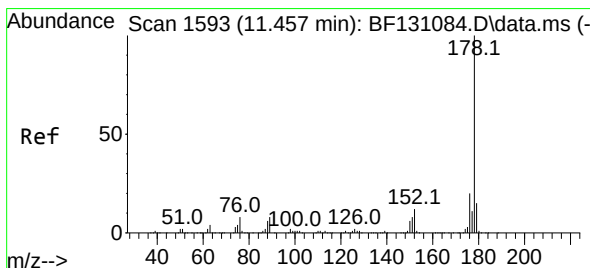
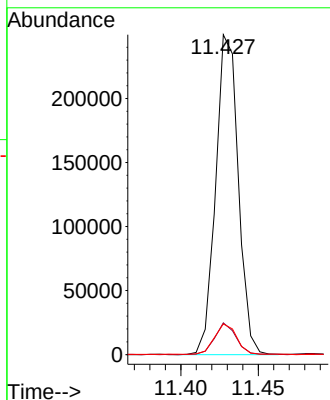
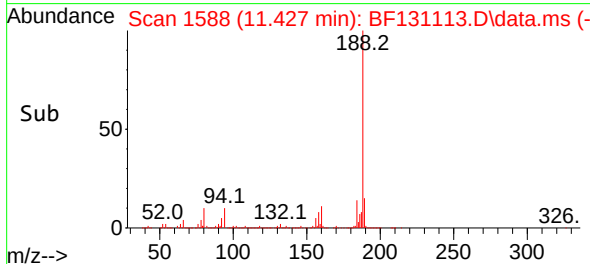
Instrument :
BNA_F
ClientSampleId :
PL-04-110722



Tgt Ion:188 Resp: 253904
Ion Ratio Lower Upper
188 100
94 10.0 7.0 10.6
80 9.6 7.9 11.9

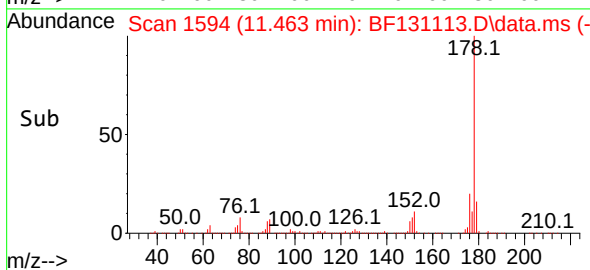
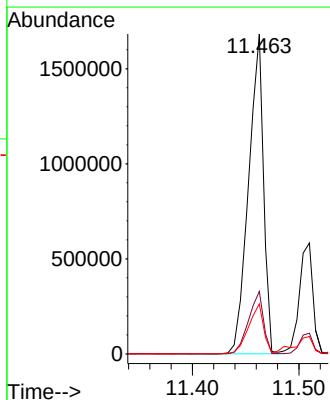
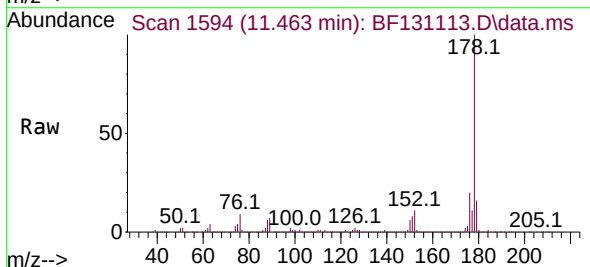
Manual Integrations
APPROVED

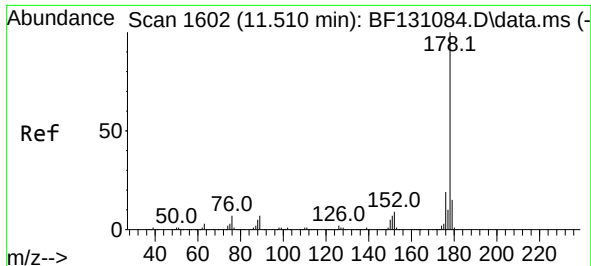
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#71
Phenanthrene
Concen: 117.231 ng
RT: 11.463 min Scan# 1594
Delta R.T. 0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

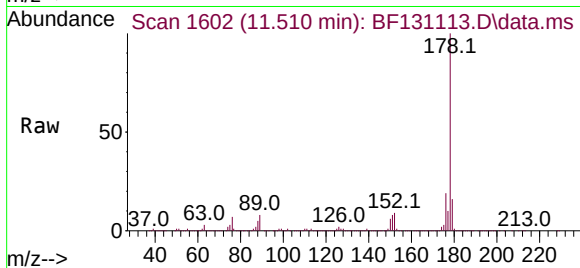
Tgt Ion:178 Resp: 1637064
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.6 12.2 18.2





#72
 Anthracene
 Concen: 37.426 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BF131113.D
 Acq: 10 Nov 2022 04:31

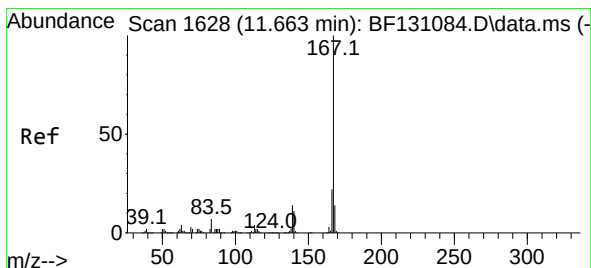
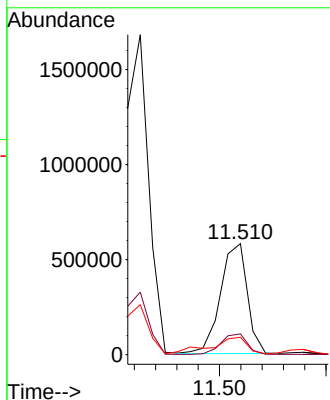
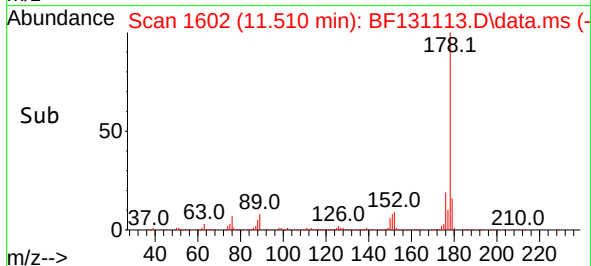
Instrument :
 BNA_F
 ClientSampleId :
 PL-04-110722



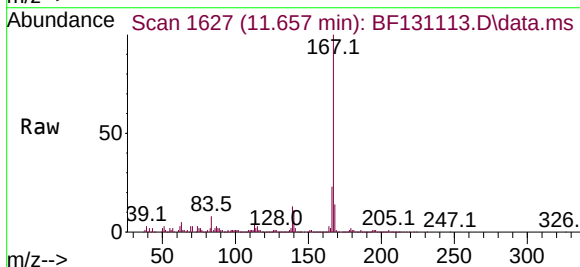
Tgt Ion:178 Resp: 507250
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.0 22.6
 179 15.6 11.8 17.8

Manual Integrations
 APPROVED

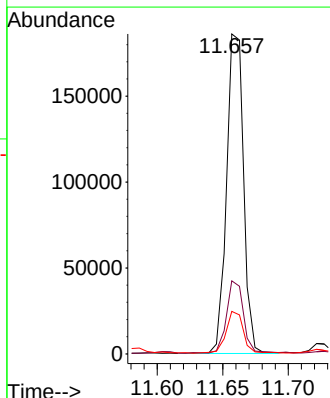
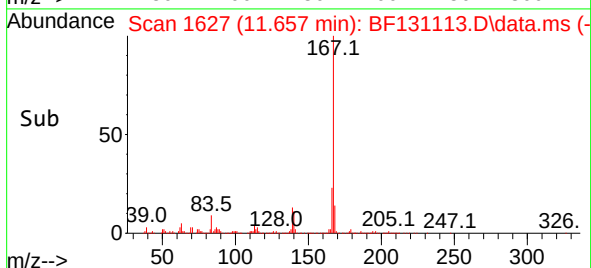
Reviewed By :Christian Giraldo 11/10/2022
 Supervised By :Jagrut Upadhyay 11/10/2022

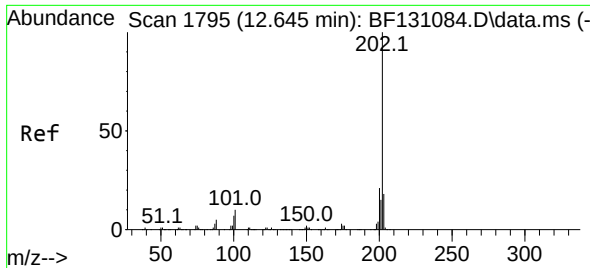


#73
 Carbazole
 Concen: 13.956 ng
 RT: 11.657 min Scan# 1627
 Delta R.T. -0.006 min
 Lab File: BF131113.D
 Acq: 10 Nov 2022 04:31



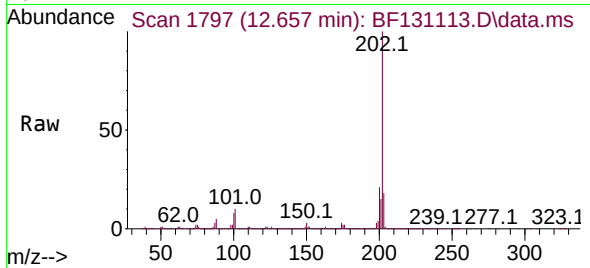
Tgt Ion:167 Resp: 168202
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.6 26.4
 139 13.3 10.8 16.2





#75
Fluoranthene
Concen: 116.477 ng
RT: 12.657 min Scan# 1795
Delta R.T. 0.012 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

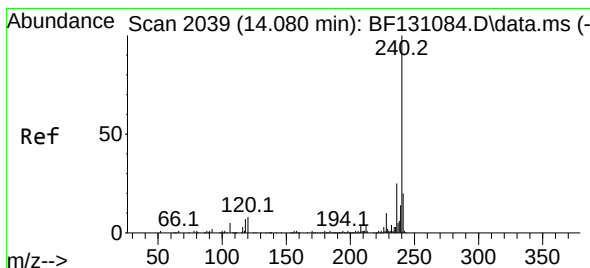
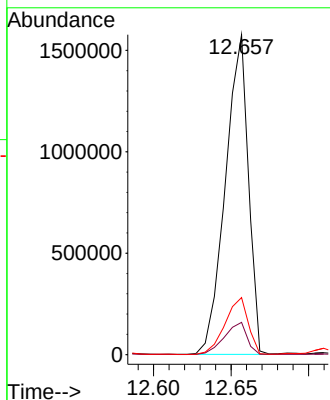
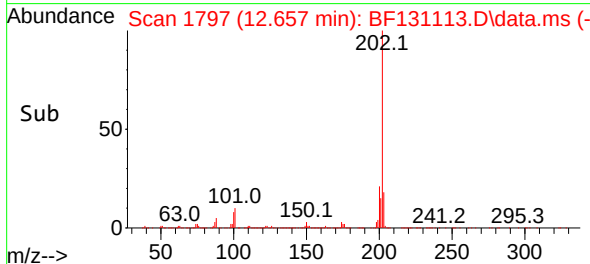
Instrument :
BNA_F
ClientSampleId :
PL-04-110722



Tgt Ion:202 Resp: 1628152
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.0
203 17.8 0.0 37.7

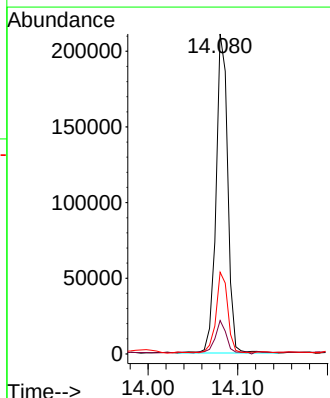
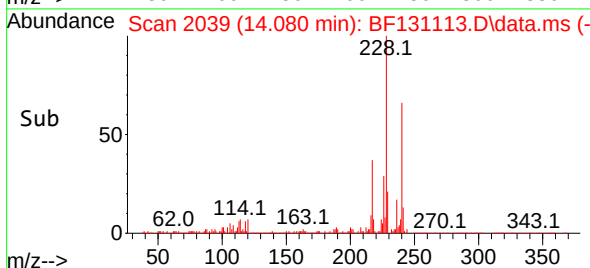
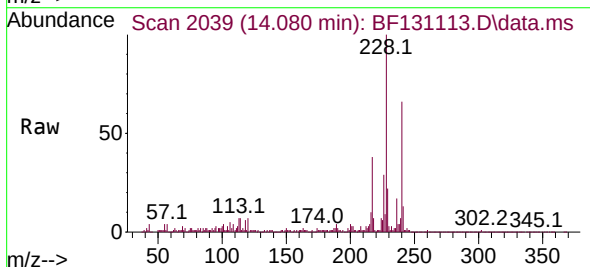
Manual Integrations
APPROVED

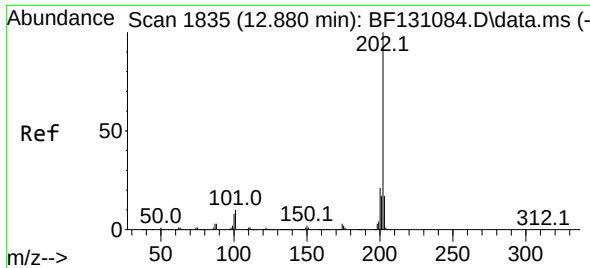
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

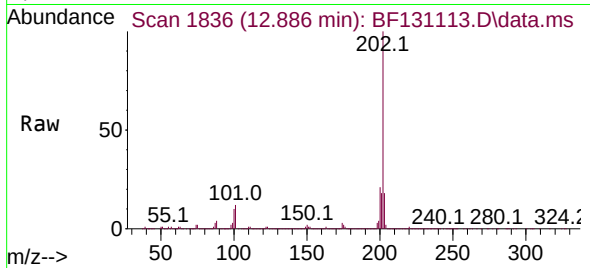
Tgt Ion:240 Resp: 193105
Ion Ratio Lower Upper
240 100
120 10.4 6.5 9.7#
236 25.5 19.7 29.5





#78
 Pyrene
 Concen: 86.321 ng
 RT: 12.886 min Scan# 1835
 Delta R.T. 0.006 min
 Lab File: BF131113.D
 Acq: 10 Nov 2022 04:31

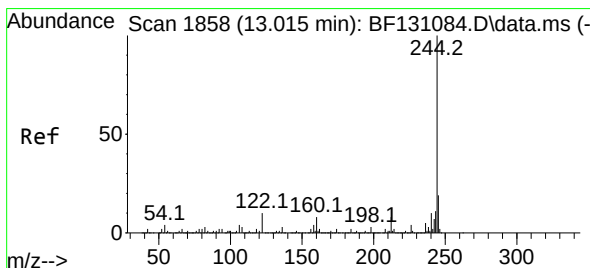
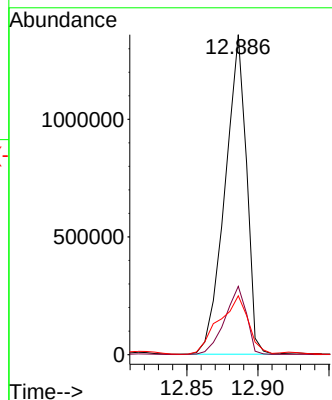
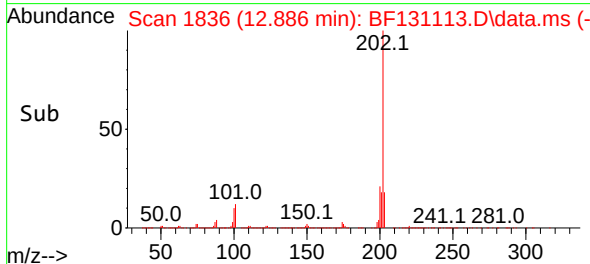
Instrument :
 BNA_F
 ClientSampleId :
 PL-04-110722



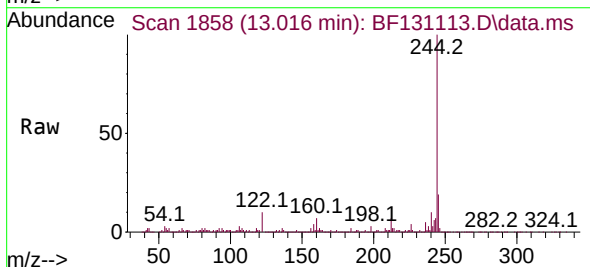
Tgt Ion:202 Resp: 1430124
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.8 25.2
 203 18.4 13.6 20.4

Manual Integrations
 APPROVED

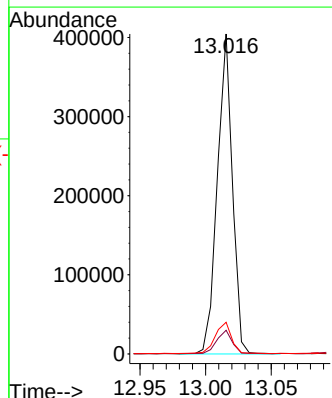
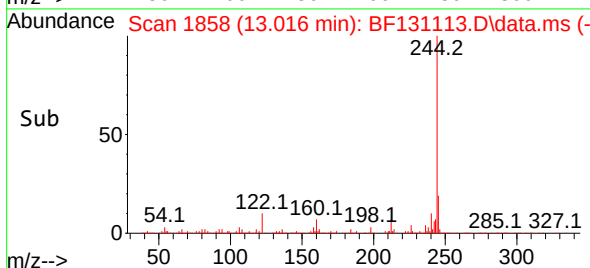
Reviewed By :Christian Giraldo 11/10/2022
 Supervised By :Jagrut Upadhyay 11/10/2022

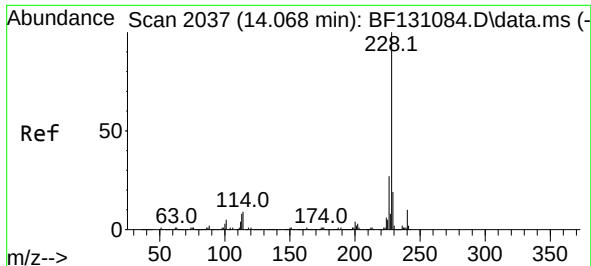


#79
 Terphenyl-d14
 Concen: 29.389 ng
 RT: 13.016 min Scan# 1858
 Delta R.T. 0.001 min
 Lab File: BF131113.D
 Acq: 10 Nov 2022 04:31



Tgt Ion:244 Resp: 323679
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.2 9.2
 122 9.9 7.8 11.8





#81
Benzo(a)anthracene
Concen: 54.538 ng
RT: 14.074 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

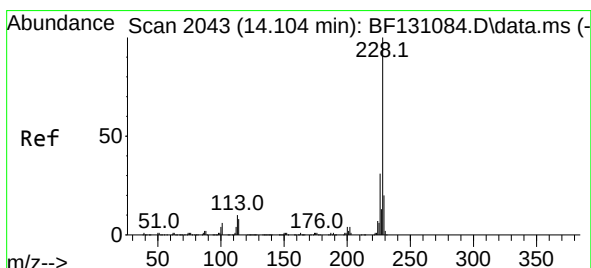
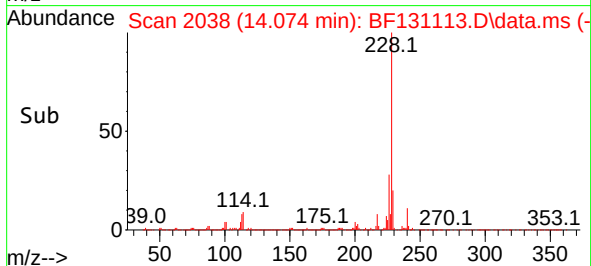
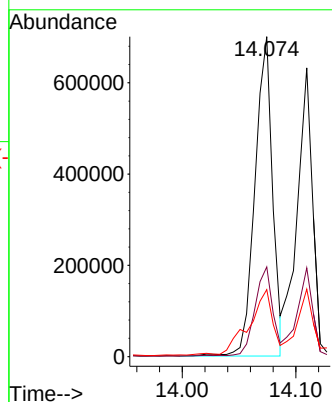
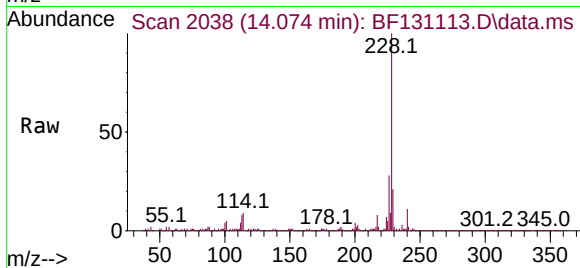
PL-04-110722

Tgt Ion:228 Resp: 752763
Ion Ratio Lower Upper
228 100
226 28.0 21.8 32.6
229 20.9 15.4 23.2

Manual Integrations

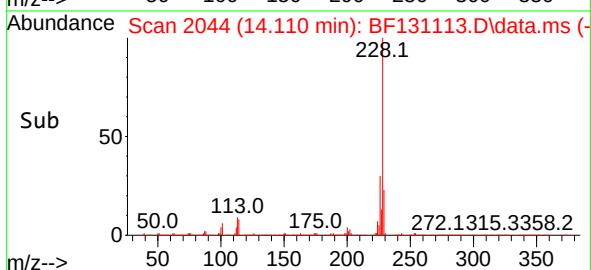
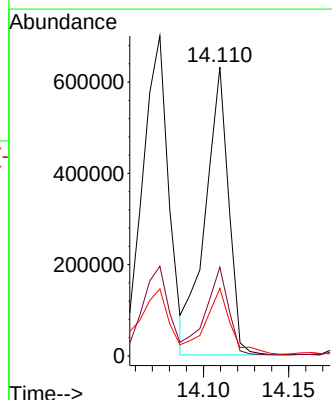
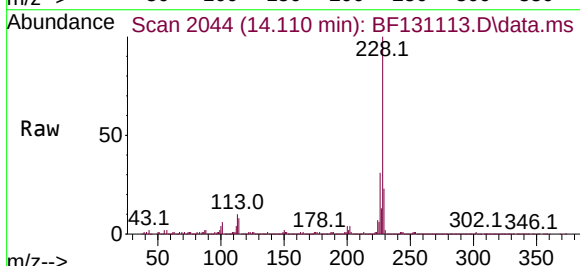
APPROVED

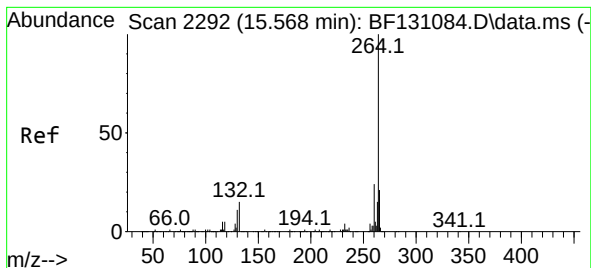
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#83
Chrysene
Concen: 46.260 ng
RT: 14.110 min Scan# 2044
Delta R.T. 0.006 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Tgt Ion:228 Resp: 603011
Ion Ratio Lower Upper
228 100
226 30.7 24.4 36.6
229 23.4 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

ClientSampleId :

PL-04-110722

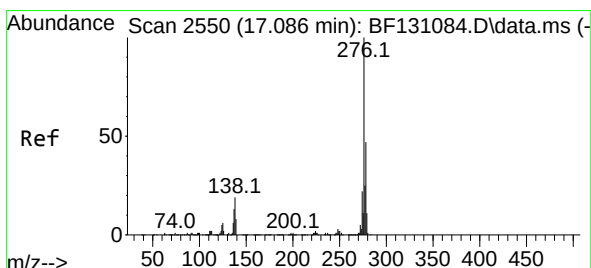
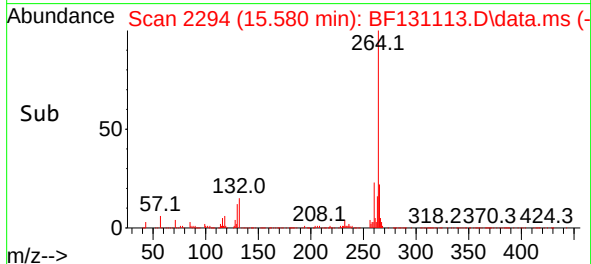
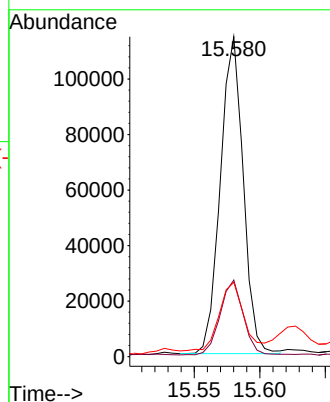
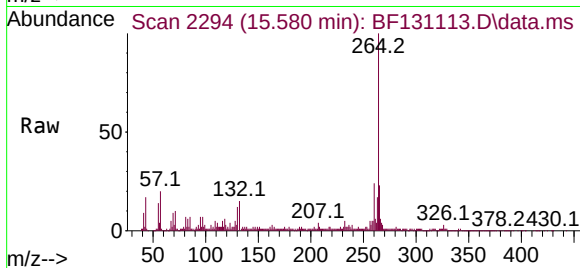
Tgt Ion:264 Resp: 138849

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	23.2	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 21.665 ng

RT: 17.098 min Scan# 2552

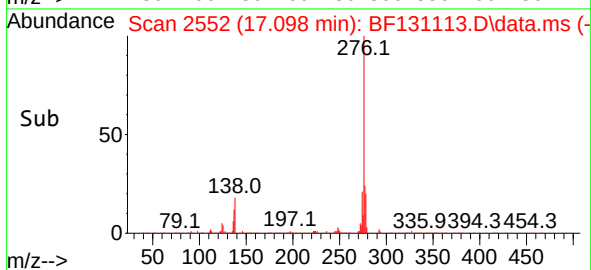
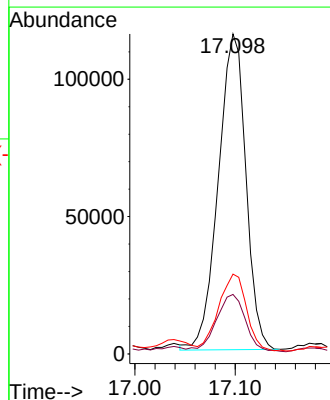
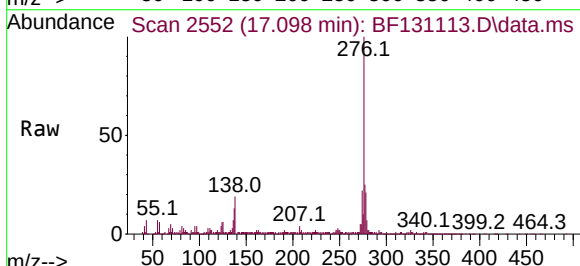
Delta R.T. 0.012 min

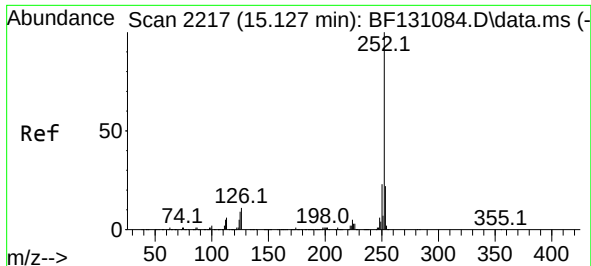
Lab File: BF131113.D

Acq: 10 Nov 2022 04:31

Tgt Ion:276 Resp: 219929

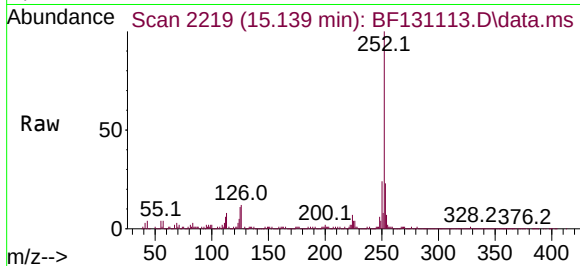
Ion	Ratio	Lower	Upper
276	100		
138	19.2	16.9	25.3
277	24.7	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 57.570 ng m
RT: 15.139 min Scan# 2219
Delta R.T. 0.012 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

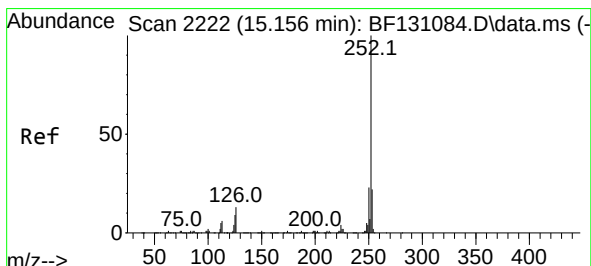
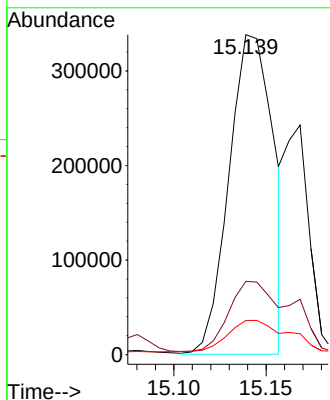
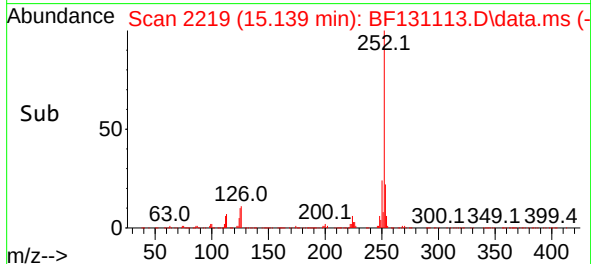
Instrument :
BNA_F
ClientSampleId :
PL-04-110722



Tgt Ion:252 Resp: 565150
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 10.7 7.2 10.8

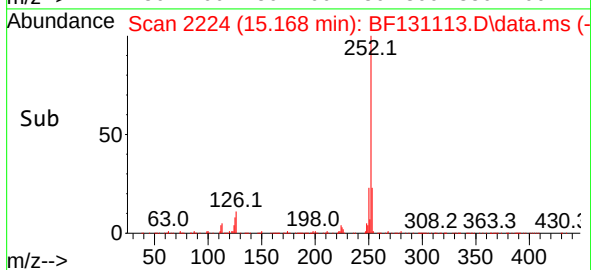
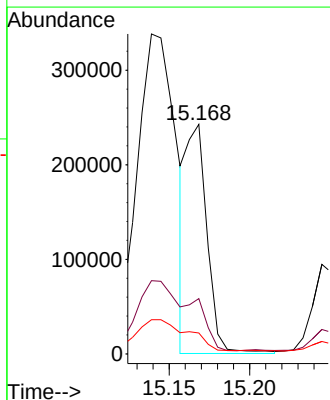
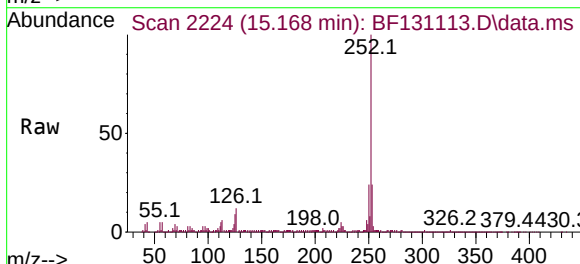
Manual Integrations
APPROVED

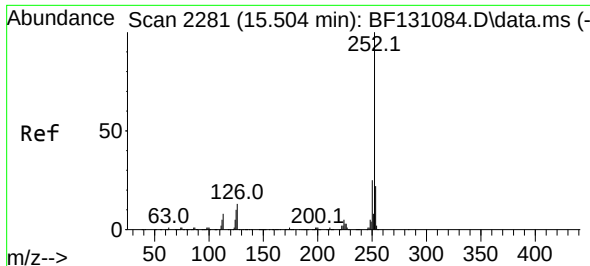
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#89
Benzo(k)fluoranthene
Concen: 23.132 ng m
RT: 15.168 min Scan# 2224
Delta R.T. 0.012 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Tgt Ion:252 Resp: 218259
Ion Ratio Lower Upper
252 100
253 24.1 17.6 26.4
125 9.1 7.5 11.3





#90
Benzo(a)pyrene
Concen: 53.491 ng
RT: 15.521 min Scan# 21
Delta R.T. 0.017 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :

BNA_F

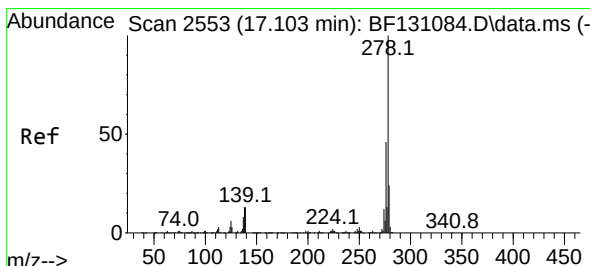
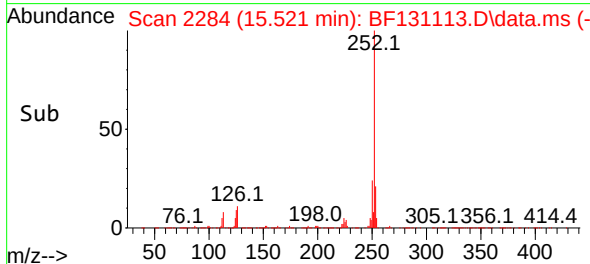
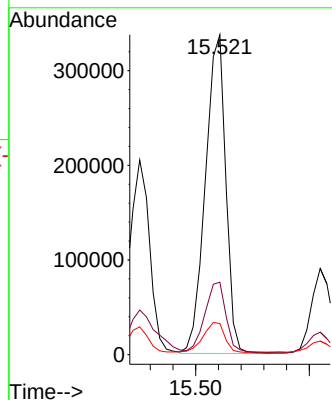
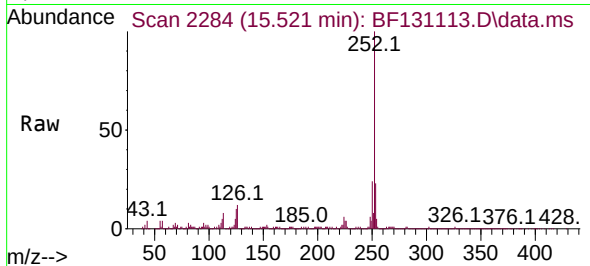
ClientSampleId :

PL-04-110722

Tgt Ion:252 Resp: 420989
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 9.7 8.1 12.1

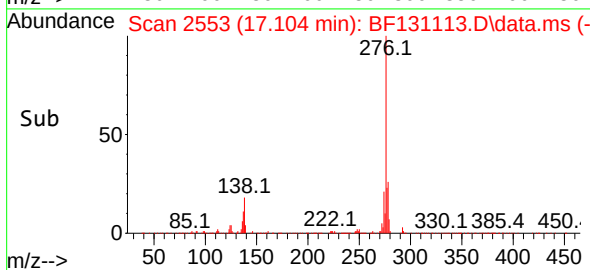
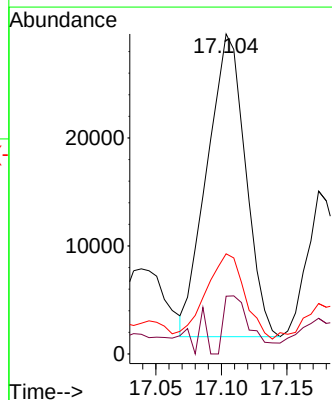
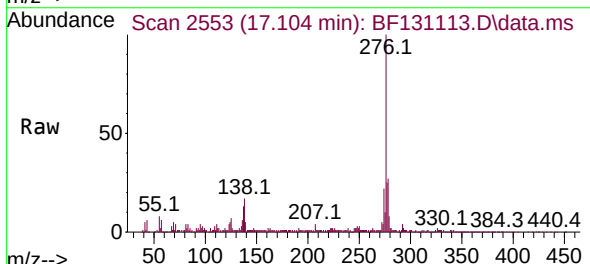
Manual Integrations
APPROVED

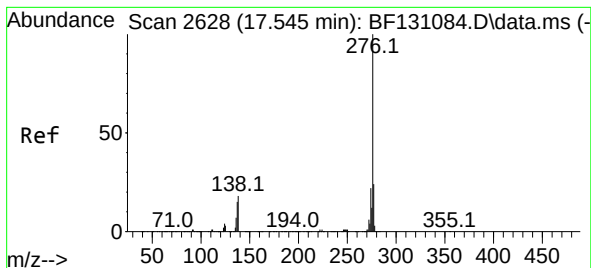
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#91
Dibenzo(a,h)anthracene
Concen: 9.558 ng
RT: 17.104 min Scan# 2553
Delta R.T. 0.001 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

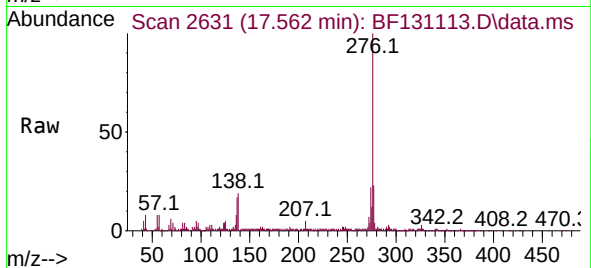
Tgt Ion:278 Resp: 57224
Ion Ratio Lower Upper
278 100
139 18.0 10.8 16.2#
279 31.3 19.2 28.8#





#92
Benzo(g,h,i)perylene
Concen: 23.560 ng
RT: 17.562 min Scan# 20
Delta R.T. 0.017 min
Lab File: BF131113.D
Acq: 10 Nov 2022 04:31

Instrument :
BNA_F
ClientSampleId :
PL-04-110722



Tgt Ion:276 Resp: 20618
Ion Ratio Lower Upper
276 100
277 23.4 19.0 28.4
138 18.5 14.6 21.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

