

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102122\
 Data File : BF130751.D
 Acq On : 21 Oct 2022 18:23
 Operator : CG\JU
 Sample : N5209-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101922

Quant Time: Oct 21 22:55:55 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 21 06:12:36 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 10/24/2022
 Supervised By : Jagrut Upadhyay 10/24/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.563	152	87179	20.000	ng	0.00
21) Naphthalene-d8	7.845	136	260294	20.000	ng	0.00
39) Acenaphthene-d10	9.586	164	118470	20.000	ng	0.00
64) Phenanthrene-d10	11.075	188	194154	20.000	ng	0.00
76) Chrysene-d12	13.716	240	126681	20.000	ng	0.01
86) Perylene-d12	15.092	264	110348	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.169	112	221116	43.737	ng	0.00
7) Phenol-d6	6.216	99	264364	43.219	ng	0.00
23) Nitrobenzene-d5	7.134	82	131814	26.864	ng	0.00
42) 2,4,6-Tribromophenol	10.380	330	46733	41.480	ng	0.00
45) 2-Fluorobiphenyl	8.916	172	244695	31.476	ng	-0.01
79) Terphenyl-d14	12.657	244	242344	32.238	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.863	128	40878	3.046	ng	98
37) 2-Methylnaphthalene	8.557	142	18869	2.146	ng	98
38) 1-Methylnaphthalene	8.651	142	18920	2.170	ng	94
49) Acenaphthylene	9.451	152	46083	4.551	ng	95
52) Acenaphthene	9.622	154	69448	11.035	ng	97
55) Dibenzofuran	9.798	168	59814	6.175	ng	94
58) Fluorene	10.133	166	99814	12.389	ng	98
71) Phenanthrene	11.104	178	1284341	120.631	ng	99
72) Anthracene	11.151	178	408964	38.492	ng	99
73) Carbazole	11.310	167	63825	6.506	ng	99
75) Fluoranthene	12.304	202	3274224	304.197	ng	99
78) Pyrene	12.527	202	2924760	275.054	ng	97
81) Benzo(a)anthracene	13.704	228	1245846	147.183	ng	97
83) Chrysene	13.745	228	991642	120.911	ng	97
87) Indeno(1,2,3-cd)pyrene	16.392	276	584122	73.807	ng	94
88) Benzo(b)fluoranthene	14.721	252	1253240m	170.572	ng	
89) Benzo(k)fluoranthene	14.739	252	335286m	45.422	ng	
90) Benzo(a)pyrene	15.045	252	867784	147.054	ng	97
91) Dibenzo(a,h)anthracene	16.392	278	138147m	21.125	ng	
92) Benzo(g,h,i)perylene	16.780	276	532113	81.131	ng	96

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

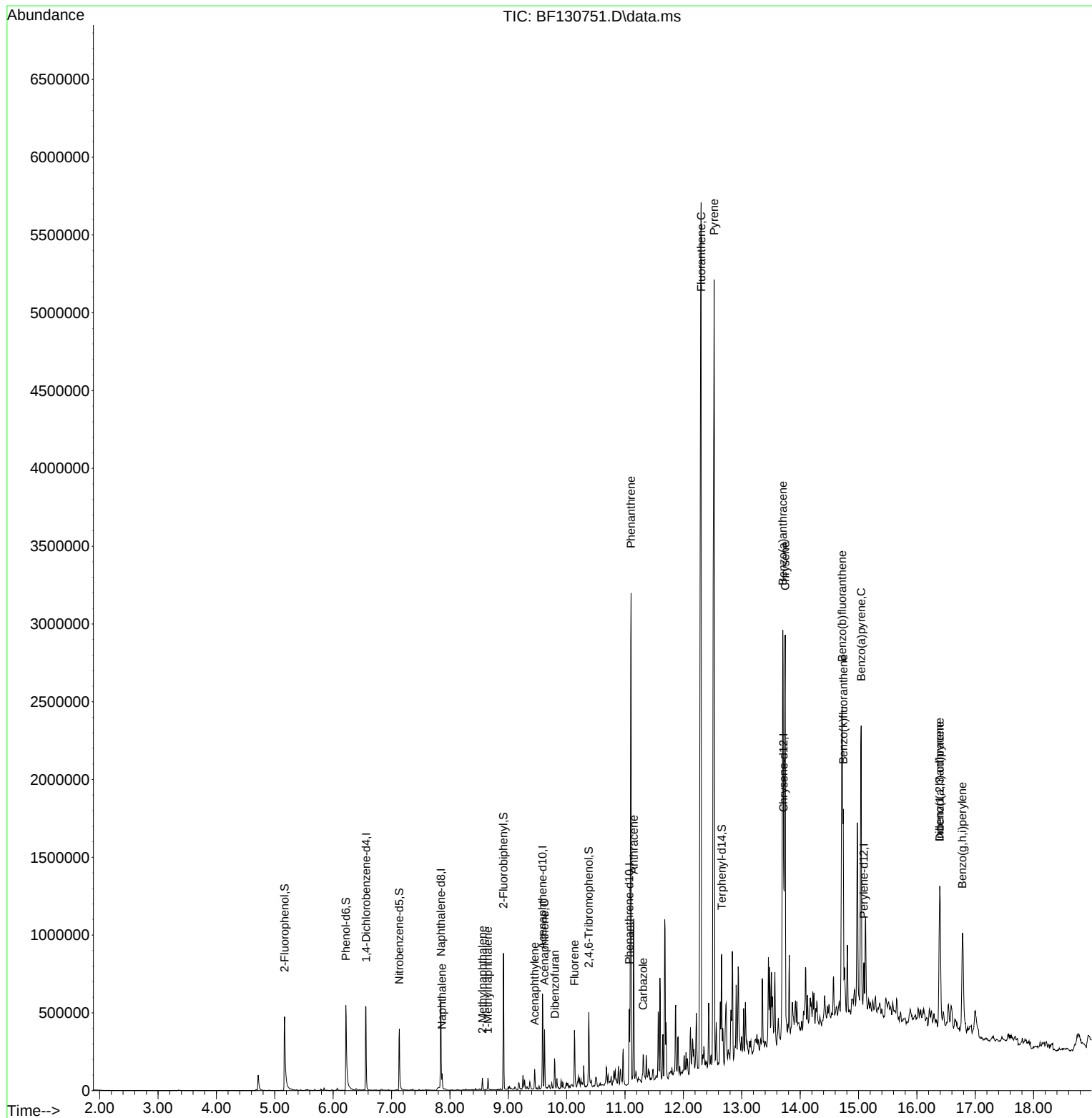
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102122\
Data File : BF130751.D
Acq On : 21 Oct 2022 18:23
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Misc :
ALS Vial : 15 Sample Multiplier: 1

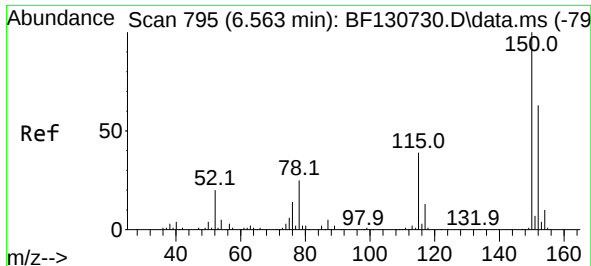
Instrument :
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Quant Time: Oct 21 22:55:55 2022
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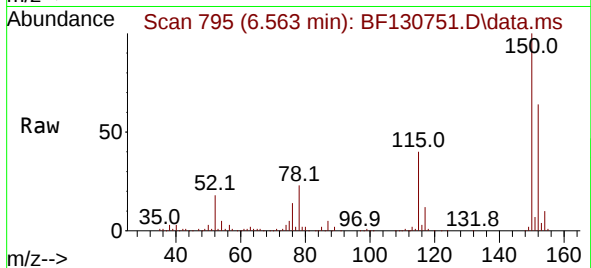
Reviewed By : Christian Giraldo 10/24/2022
Supervised By : Jagrut Upadhyay 10/24/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.563 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

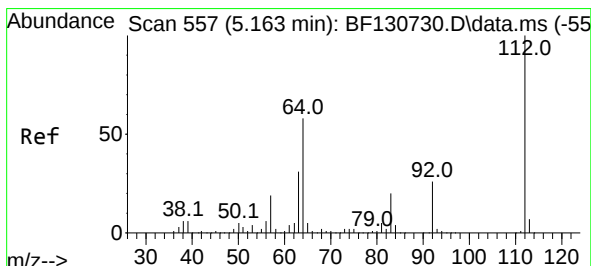
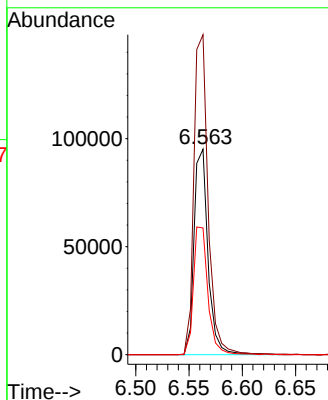
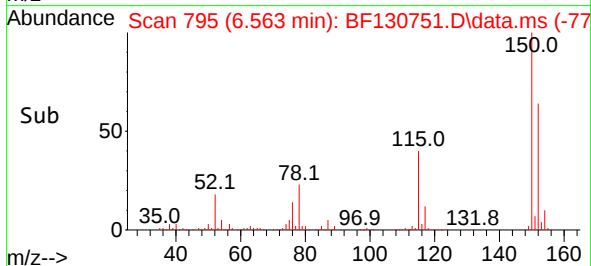
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BNA_F
ClientSampleId :
CL-02-101922



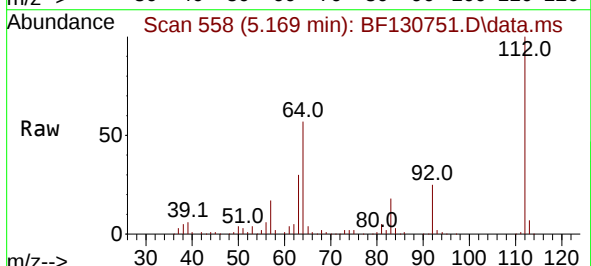
Tgt Ion:152 Resp: 87179
Ion Ratio Lower Upper
152 100
150 155.7 127.0 190.6
115 61.7 49.9 74.9

Manual Integrations
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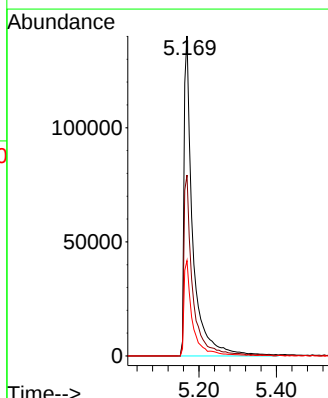
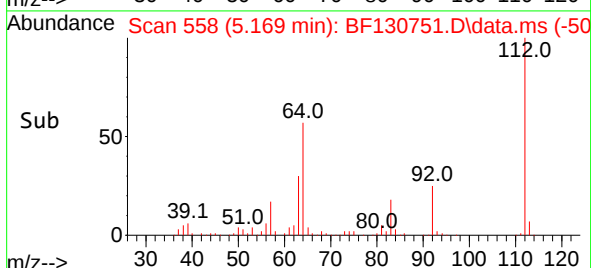
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022

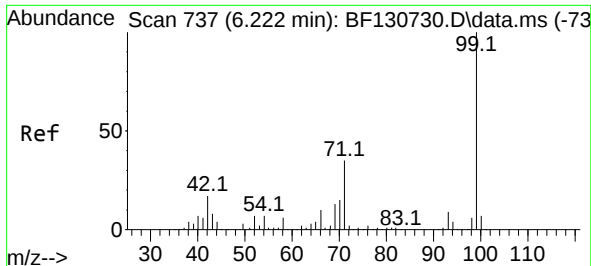


#5
2-Fluorophenol
Concen: 43.737 ng
RT: 5.169 min Scan# 558
Delta R.T. 0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23



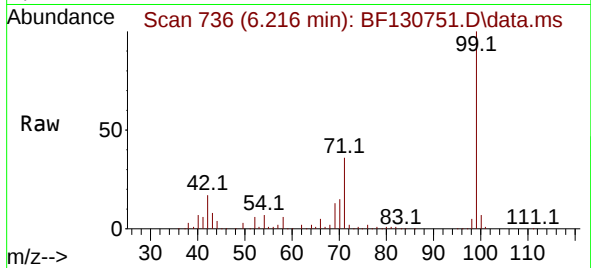
Tgt Ion:112 Resp: 221116
Ion Ratio Lower Upper
112 100
64 56.6 46.2 69.4
63 29.8 25.1 37.7





#7
Phenol-d6
Concen: 43.219 ng
RT: 6.216 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

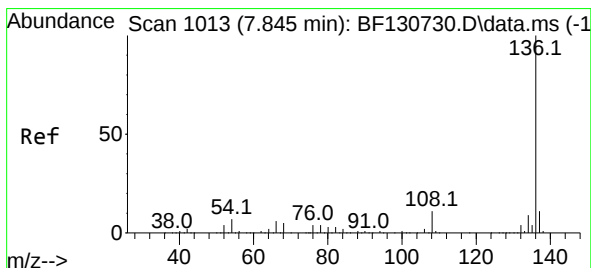
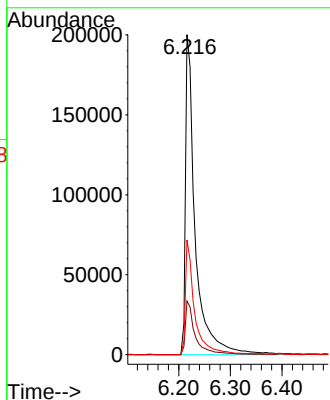
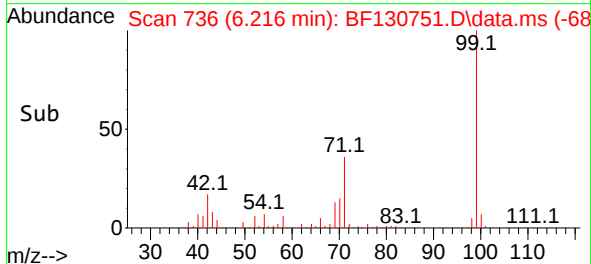
Instrument :
BNA_F
ClientSampleId :
CL-02-101922



Tgt Ion: 99 Resp: 264364
Ion Ratio Lower Upper
99 100
42 16.7 13.8 20.8
71 35.8 28.3 42.5

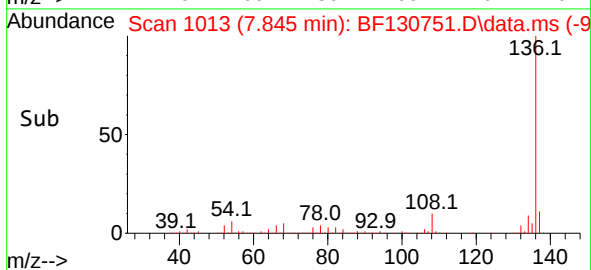
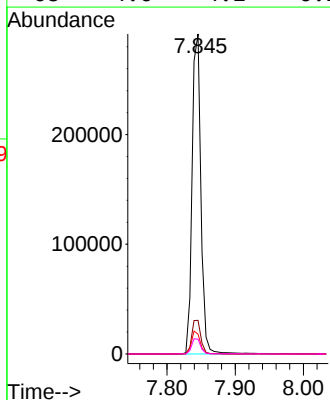
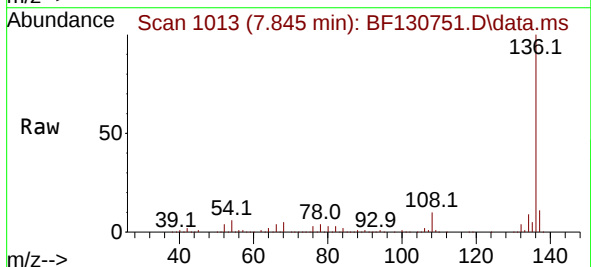
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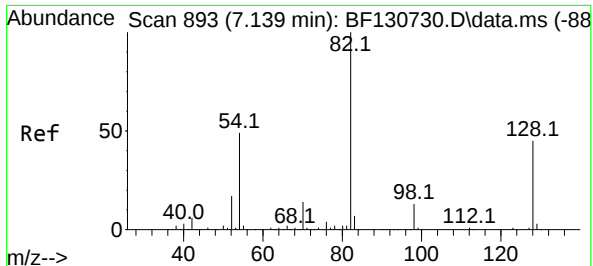
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.845 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Tgt Ion:136 Resp: 260294
Ion Ratio Lower Upper
136 100
137 10.5 9.1 13.7
54 6.2 5.8 8.8
68 4.6 4.2 6.2





#23

Nitrobenzene-d5

Concen: 26.864 ng

RT: 7.134 min Scan# 89

Delta R.T. -0.005 min

Lab File: BF130751.D

Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

CL-02-101922

Tgt Ion: 82 Resp: 131814

Ion Ratio Lower Upper

82 100

128 47.0 35.9 53.9

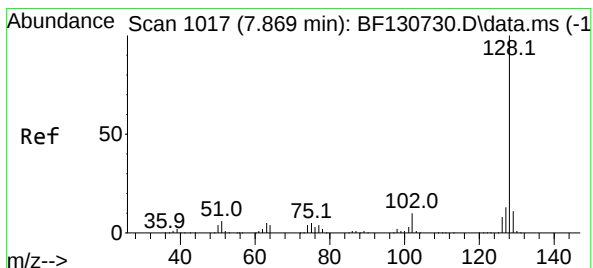
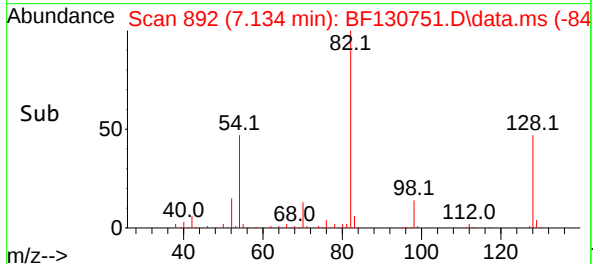
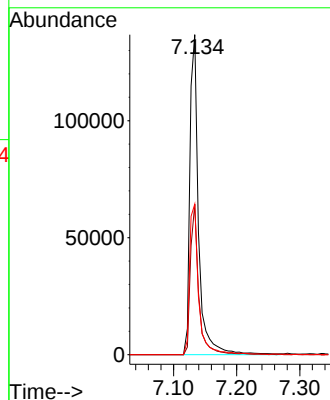
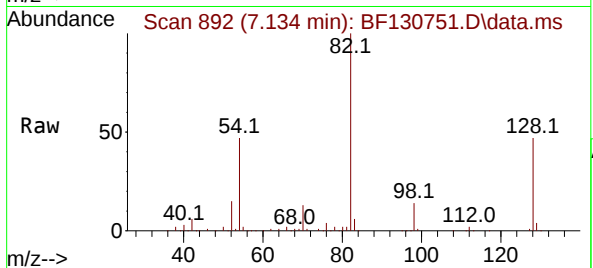
54 47.1 39.2 58.8

Manual Integrations

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#31

Naphthalene

Concen: 3.046 ng

RT: 7.863 min Scan# 1016

Delta R.T. -0.006 min

Lab File: BF130751.D

Acq: 21 Oct 2022 18:23

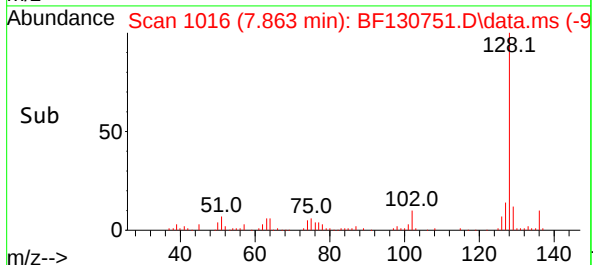
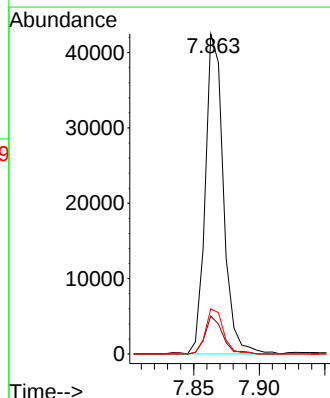
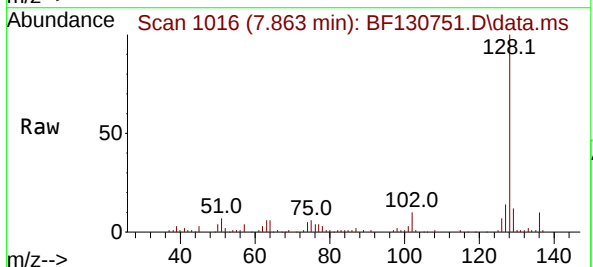
Tgt Ion:128 Resp: 40878

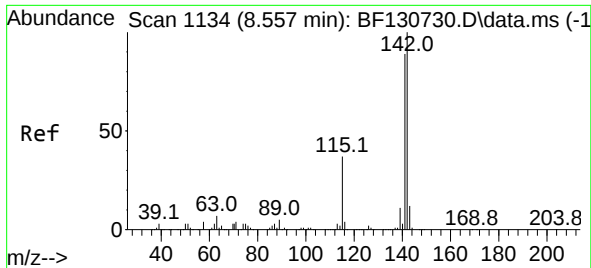
Ion Ratio Lower Upper

128 100

129 11.9 8.9 13.3

127 14.1 10.6 16.0





#37

2-Methylnaphthalene

Concen: 2.146 ng

RT: 8.557 min Scan# 1134

Delta R.T. 0.000 min

Lab File: BF130751.D

Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

CL-02-101922

Tgt Ion:142 Resp: 18869

Ion Ratio Lower Upper

142 100

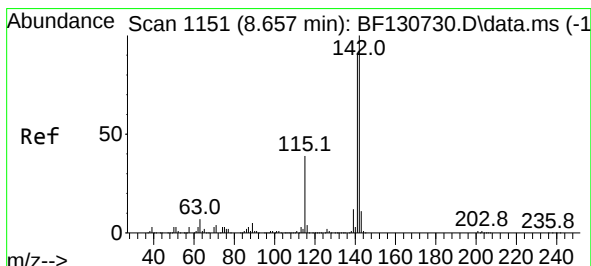
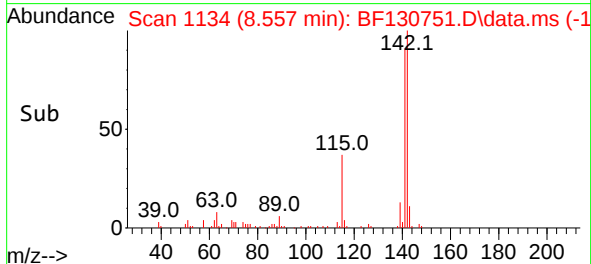
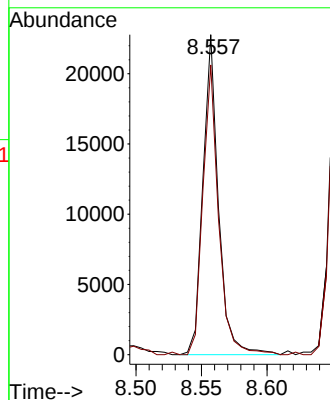
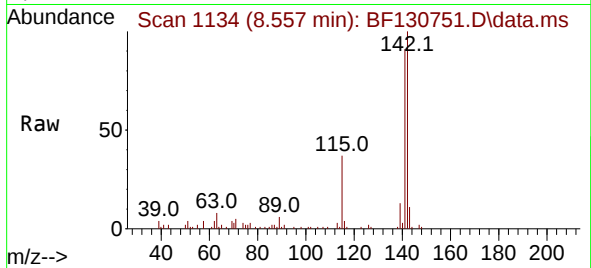
141 90.6 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022



#38

1-Methylnaphthalene

Concen: 2.170 ng

RT: 8.651 min Scan# 1150

Delta R.T. -0.006 min

Lab File: BF130751.D

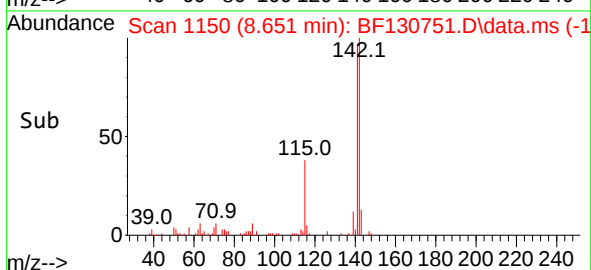
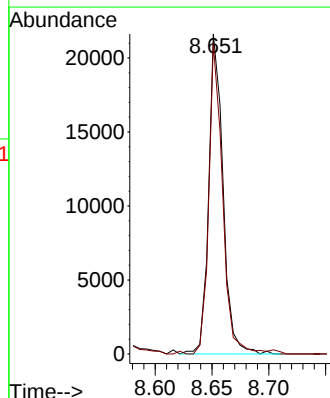
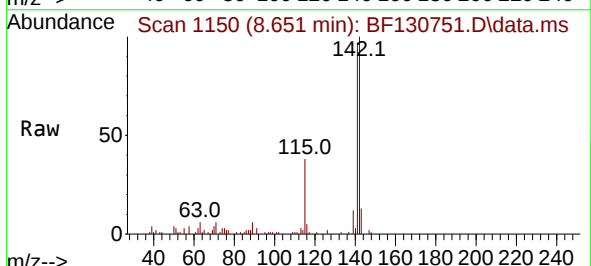
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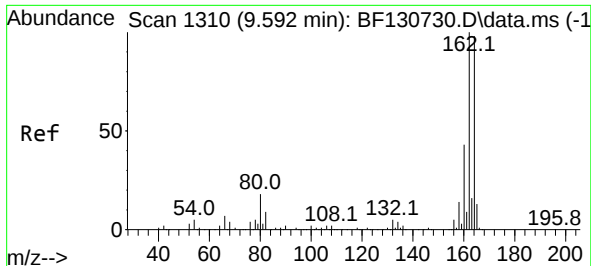
Tgt Ion:142 Resp: 18920

Ion Ratio Lower Upper

142 100

141 96.9 73.0 109.4





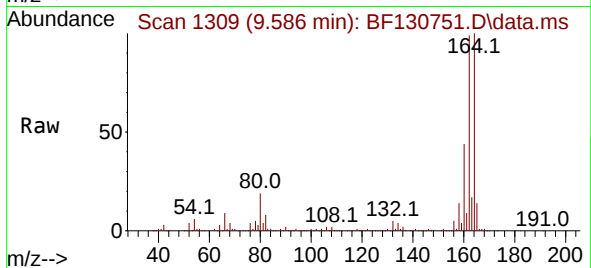
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.586 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

CL-02-101922

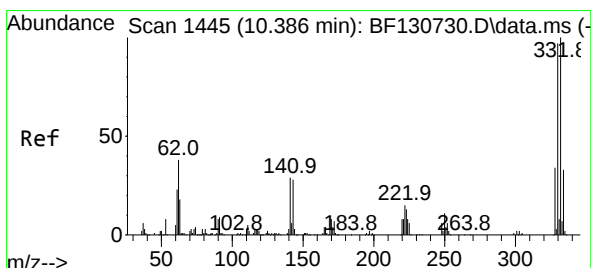
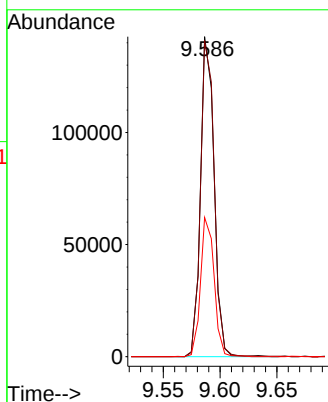
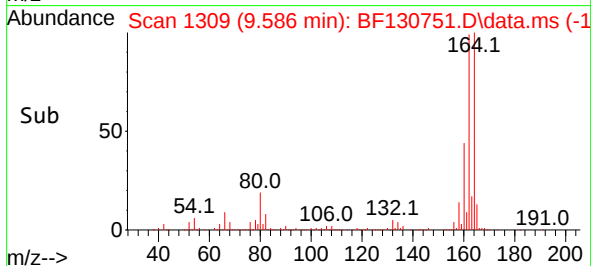


Tgt Ion:164 Resp: 118470
Ion Ratio Lower Upper
164 100
162 98.8 81.4 122.0
160 43.5 35.0 52.4

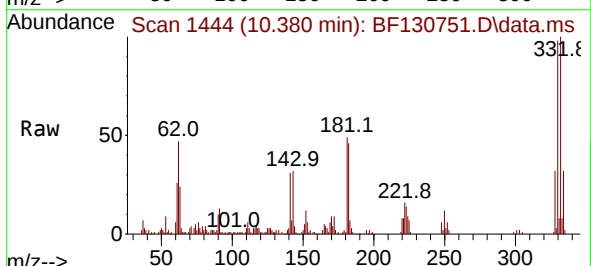
Manual Integrations

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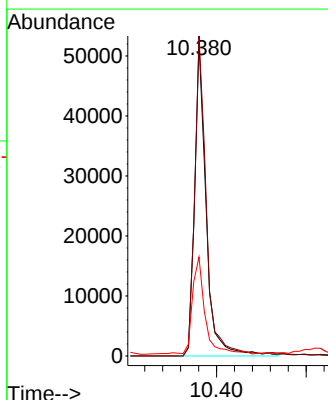
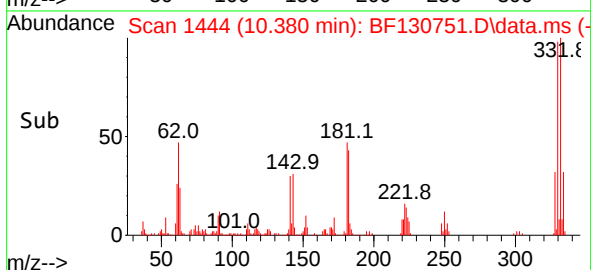
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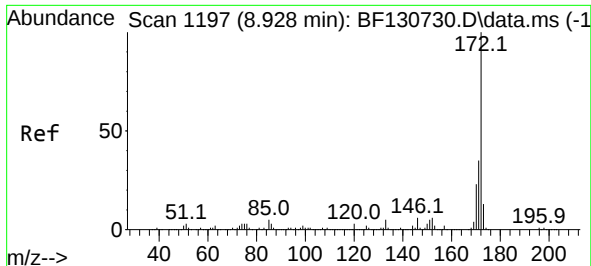


#42
2,4,6-Tribromophenol
Concen: 41.480 ng
RT: 10.380 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23



Tgt Ion:330 Resp: 46733
Ion Ratio Lower Upper
330 100
332 102.8 81.4 122.2
141 34.1 24.6 37.0





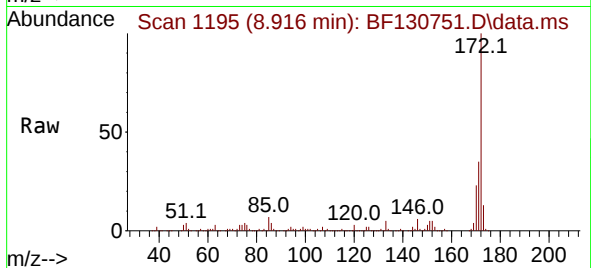
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2-Fluorobiphenyl
Concen: 31.476 ng
RT: 8.916 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :

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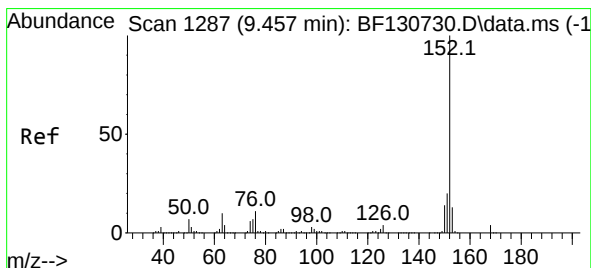
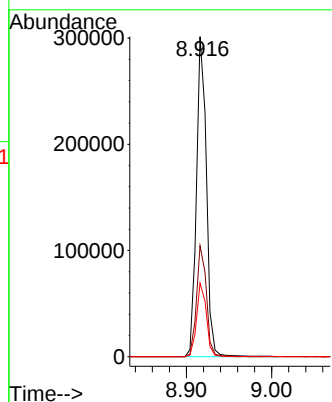
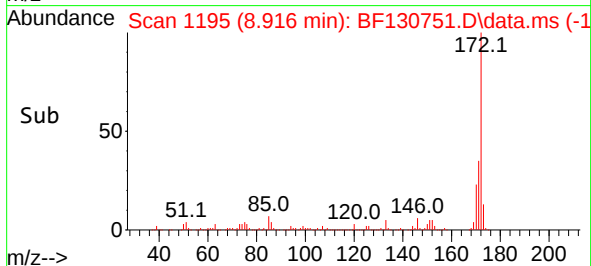


Tgt Ion:172 Resp: 244695
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.0 18.5 27.7

Manual Integrations

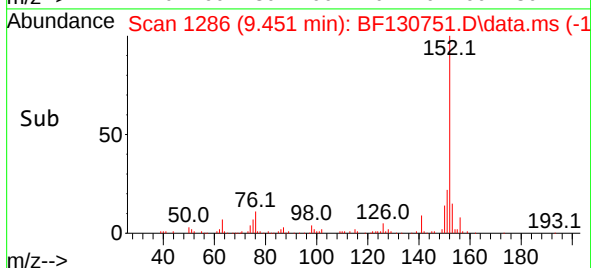
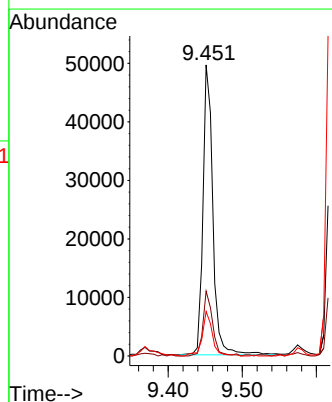
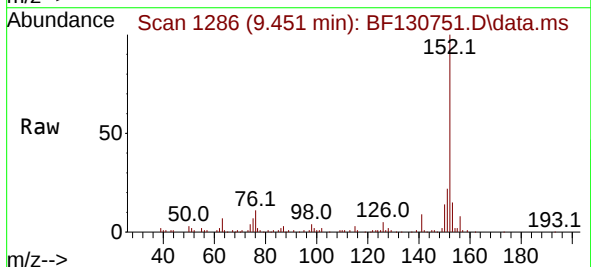
APPROVED

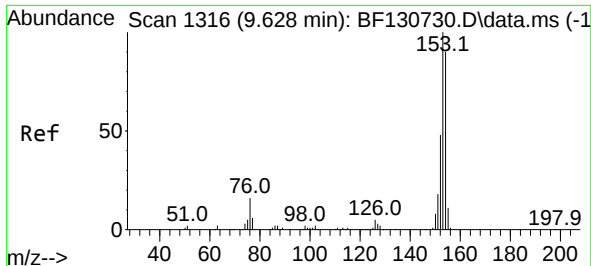
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#49
Acenaphthylene
Concen: 4.551 ng
RT: 9.451 min Scan# 1286
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Tgt Ion:152 Resp: 46083
Ion Ratio Lower Upper
152 100
151 22.2 16.0 24.0
153 15.3 10.5 15.7





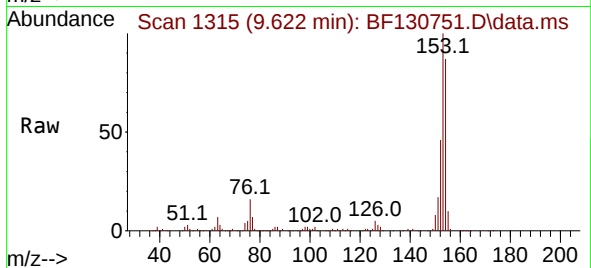
#52
Acenaphthene
Concen: 11.035 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

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ClientSampleId :

CL-02-101922



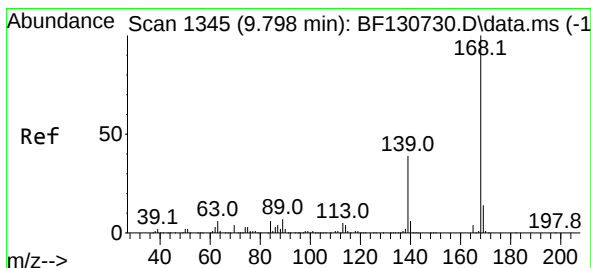
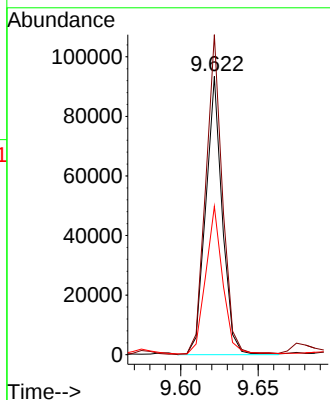
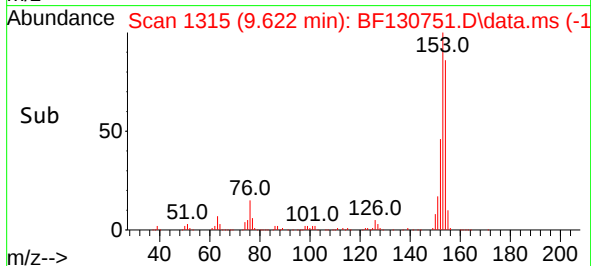
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Ion Ratio Lower Upper
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153 115.0 88.4 132.6
152 53.3 42.0 63.0

Manual Integrations

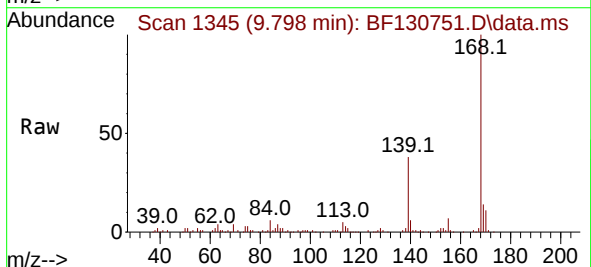
APPROVED

Reviewed By :Christian Giraldo 10/24/2022

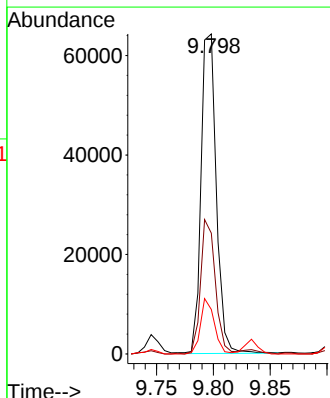
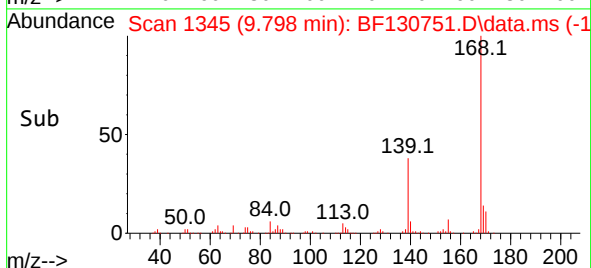
Supervised By :Jagrut Upadhyay 10/24/2022

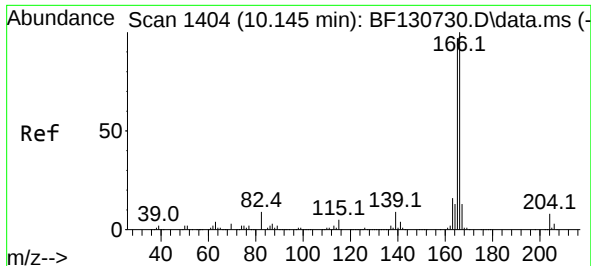


#55
Dibenzofuran
Concen: 6.175 ng
RT: 9.798 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23



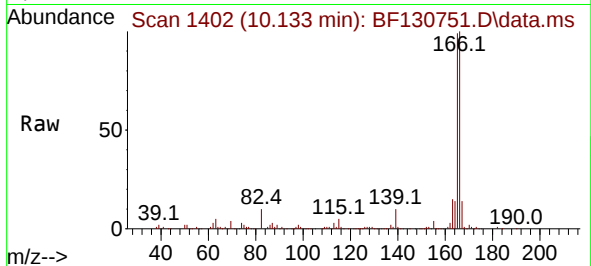
Tgt Ion:168 Resp: 59814
Ion Ratio Lower Upper
168 100
139 37.8 34.3 51.5
169 13.9 11.0 16.6





#58
Fluorene
Concen: 12.389 ng
RT: 10.133 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

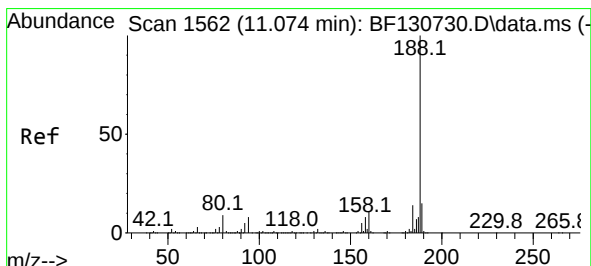
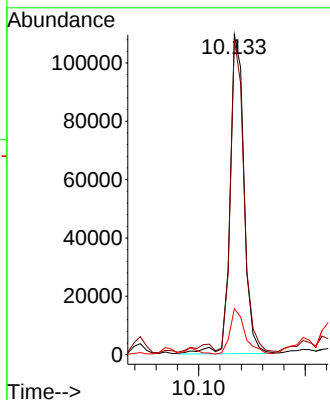
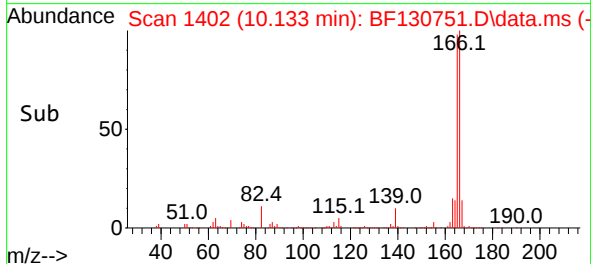
Instrument :
BNA_F
ClientSampleId :
CL-02-101922



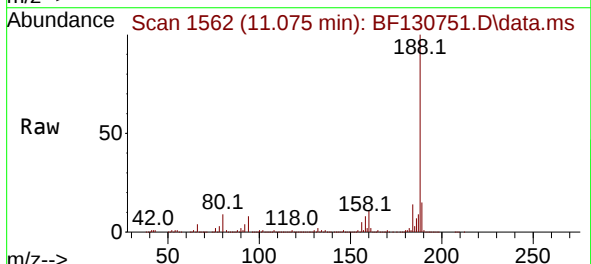
Tgt Ion:166 Resp: 99814
Ion Ratio Lower Upper
166 100
165 98.6 77.6 116.4
167 14.4 10.3 15.5

Manual Integrations
APPROVED

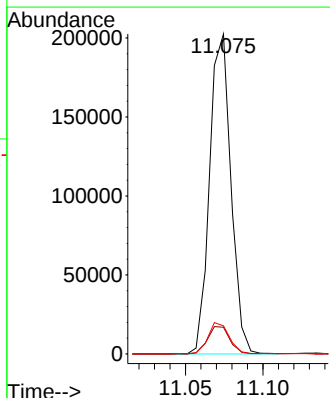
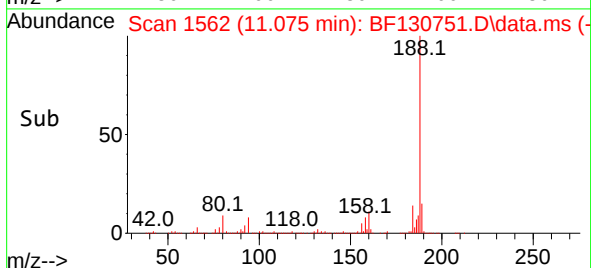
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022

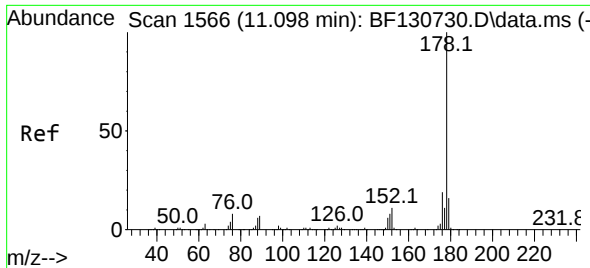


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.075 min Scan# 1562
Delta R.T. 0.000 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23



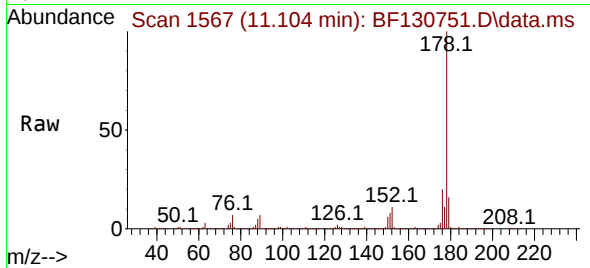
Tgt Ion:188 Resp: 194154
Ion Ratio Lower Upper
188 100
94 8.4 6.7 10.1
80 8.8 7.4 11.0





#71
Phenanthrene
Concen: 120.631 ng
RT: 11.104 min Scan# 1567
Delta R.T. 0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

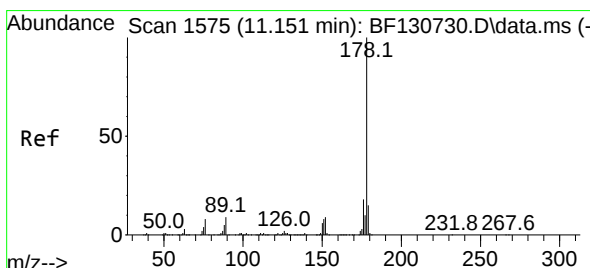
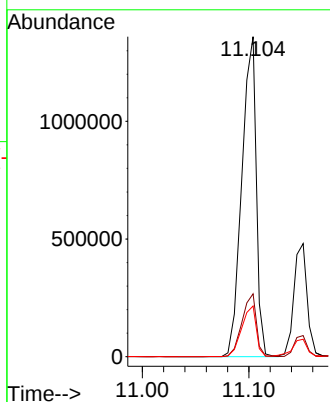
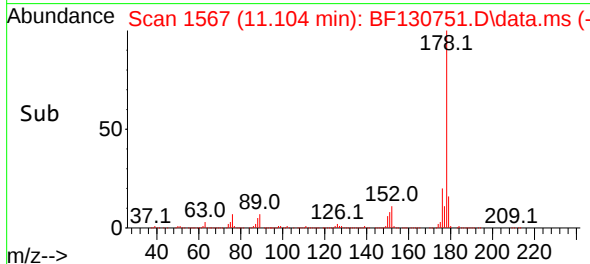
Instrument :
BNA_F
ClientSampleId :
CL-02-101922



Tgt Ion:178 Resp: 128434
Ion Ratio Lower Upper
178 100
176 19.7 15.1 22.7
179 15.8 12.4 18.6

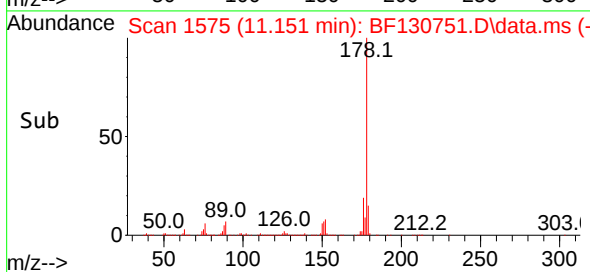
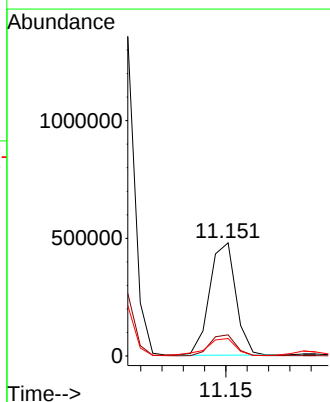
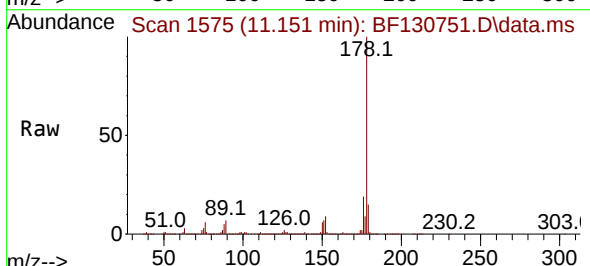
Manual Integrations
APPROVED

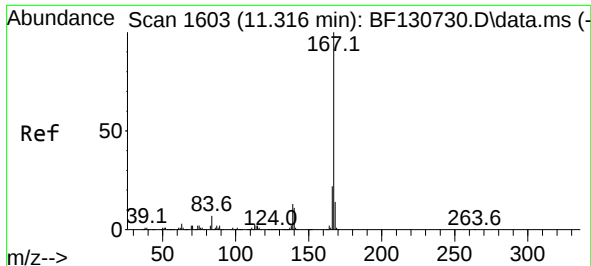
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#72
Anthracene
Concen: 38.492 ng
RT: 11.151 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Tgt Ion:178 Resp: 408964
Ion Ratio Lower Upper
178 100
176 18.6 14.6 21.8
179 15.4 12.4 18.6





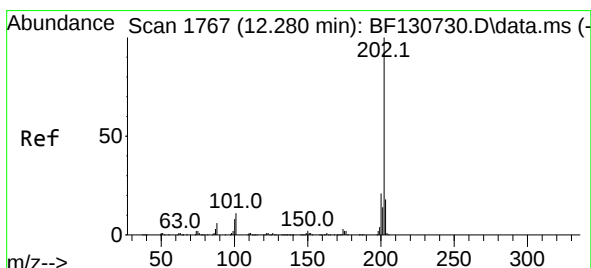
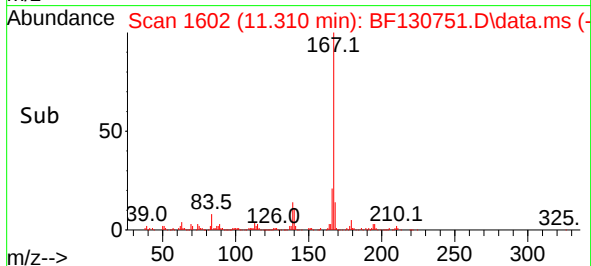
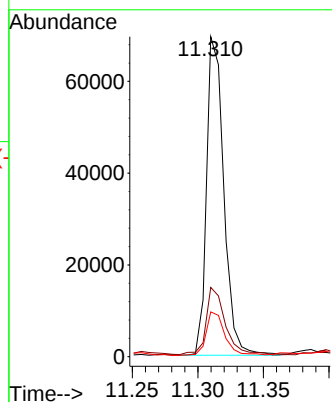
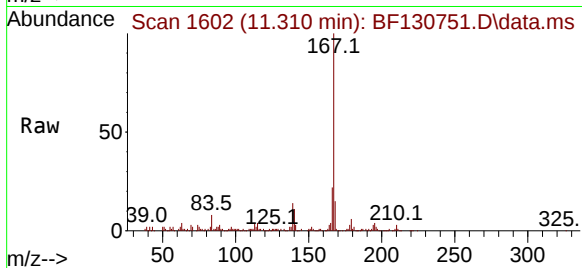
#73
Carbazole
Concen: 6.506 ng
RT: 11.310 min Scan# 1602
Delta R.T. -0.006 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :
BNA_F
ClientSampleId :
CL-02-101922

Tgt Ion:167 Resp: 63825
Ion Ratio Lower Upper
167 100
166 21.7 17.3 25.9
139 14.0 10.7 16.1

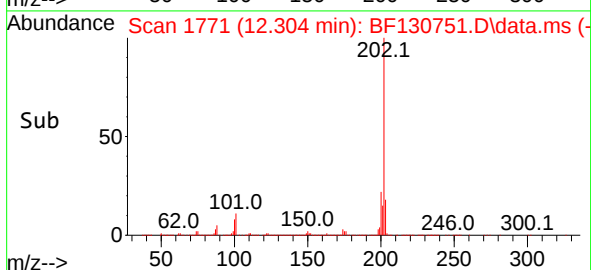
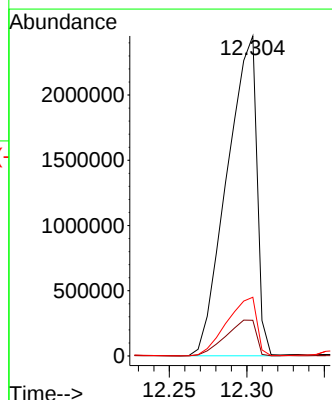
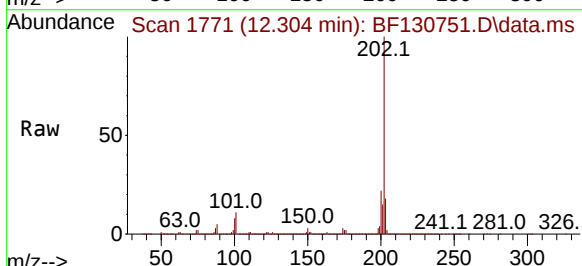
Manual Integrations
APPROVED

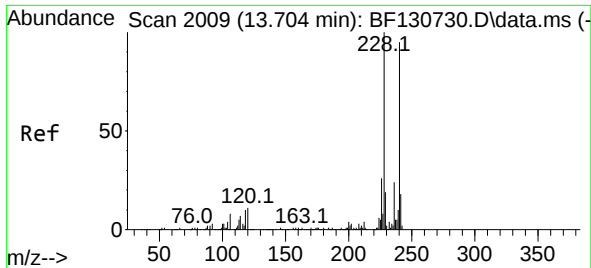
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#75
Fluoranthene
Concen: 304.197 ng
RT: 12.304 min Scan# 1771
Delta R.T. 0.024 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Tgt Ion:202 Resp: 3274224
Ion Ratio Lower Upper
202 100
101 11.1 0.0 31.0
203 18.3 0.0 37.6





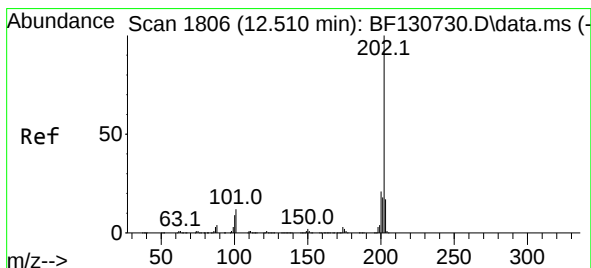
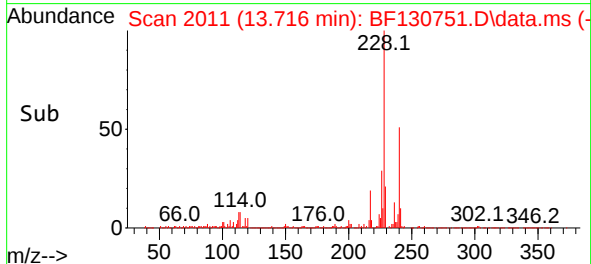
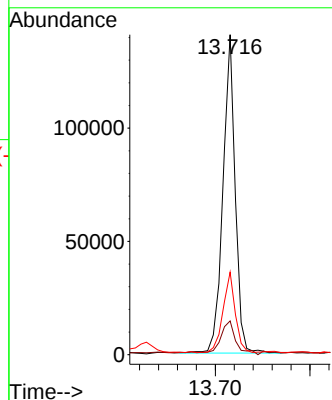
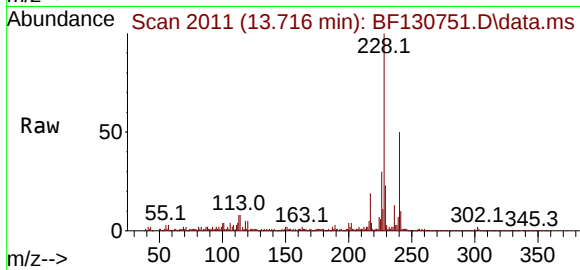
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.716 min Scan# 20
Delta R.T. 0.012 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :
BNA_F
ClientSampleId :
CL-02-101922

Tgt Ion:240 Resp: 12668
Ion Ratio Lower Upper
240 100
120 10.6 9.6 14.4
236 25.8 20.2 30.2

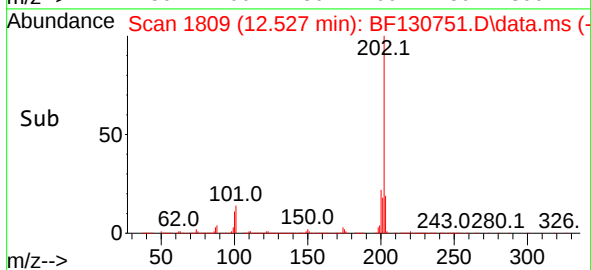
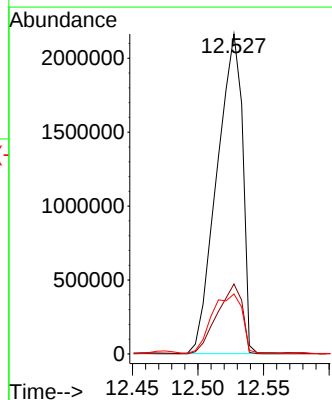
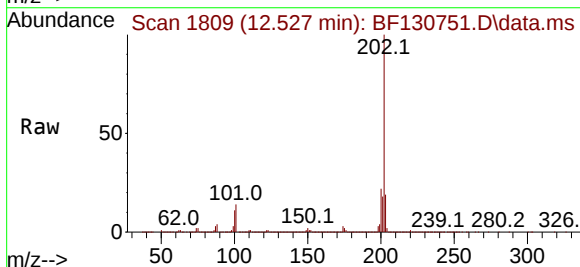
Manual Integrations
APPROVED

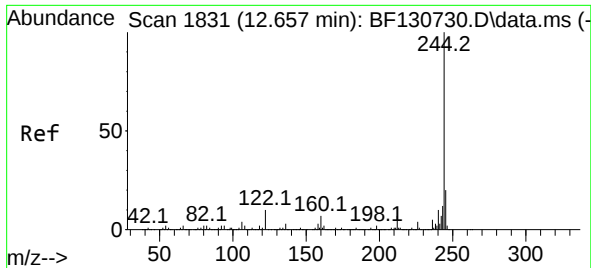
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#78
Pyrene
Concen: 275.054 ng
RT: 12.527 min Scan# 1809
Delta R.T. 0.018 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

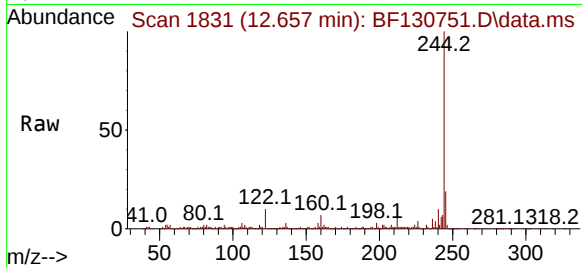
Tgt Ion:202 Resp: 2924760
Ion Ratio Lower Upper
202 100
200 21.9 16.8 25.2
203 18.8 13.8 20.8





#79
 Terphenyl-d14
 Concen: 32.238 ng
 RT: 12.657 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF130751.D
 Acq: 21 Oct 2022 18:23

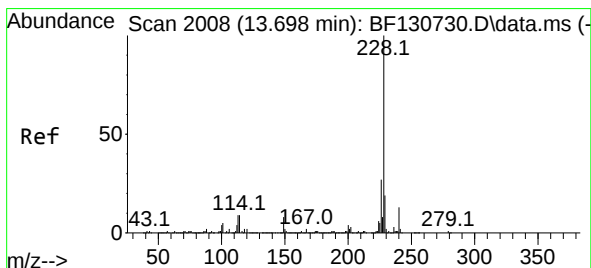
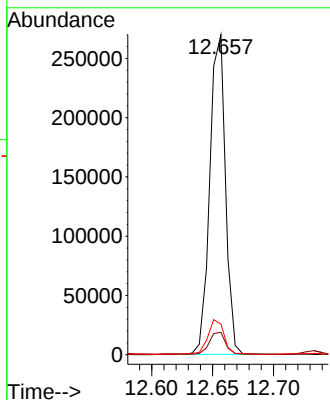
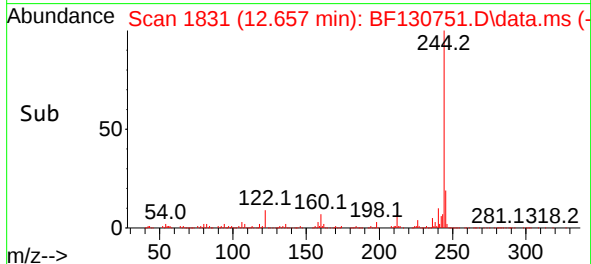
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101922



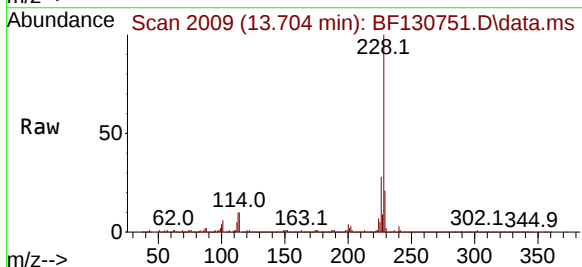
Tgt Ion:244 Resp: 242344
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.0
 122 9.5 8.2 12.4

Manual Integrations
 APPROVED

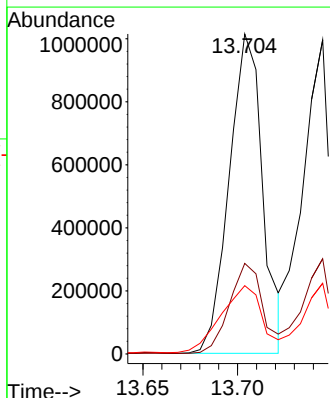
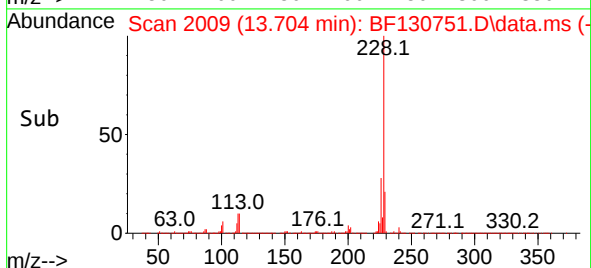
Reviewed By :Christian Giraldo 10/24/2022
 Supervised By :Jagrut Upadhyay 10/24/2022

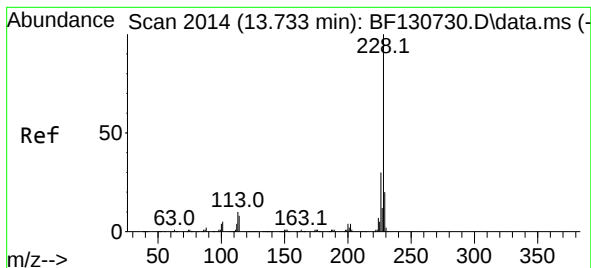


#81
 Benzo(a)anthracene
 Concen: 147.183 ng
 RT: 13.704 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: BF130751.D
 Acq: 21 Oct 2022 18:23



Tgt Ion:228 Resp: 1245846
 Ion Ratio Lower Upper
 228 100
 226 28.3 21.8 32.8
 229 21.4 15.4 23.2





#83

Chrysene

Concen: 120.911 ng

RT: 13.745 min Scan# 2014

Delta R.T. 0.012 min

Lab File: BF130751.D

Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

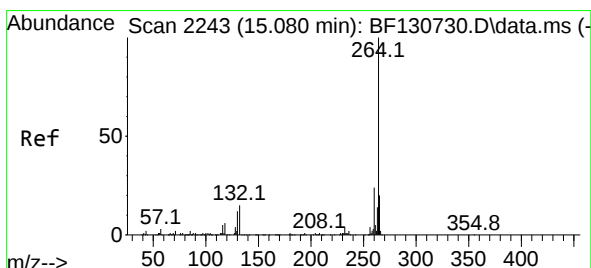
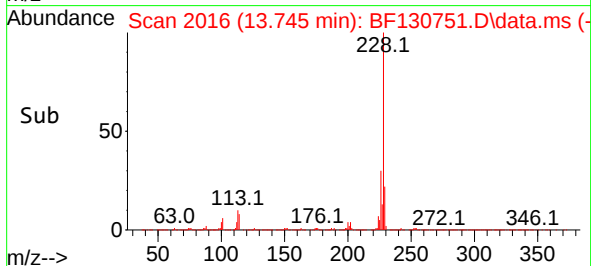
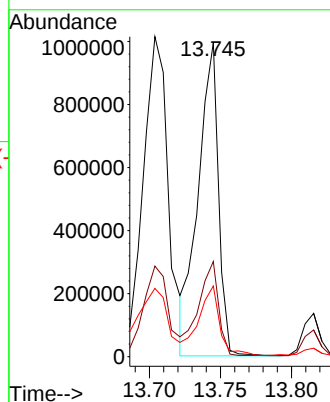
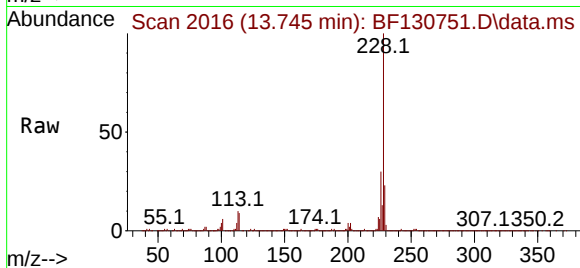
CL-02-101922

Tgt Ion:228 Resp: 991642
 Ion Ratio Lower Upper
 228 100
 226 30.3 23.6 35.4
 229 22.5 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/24/2022
 Supervised By :Jagrut Upadhyay 10/24/2022



#86

Perylene-d12

Concen: 20.000 ng

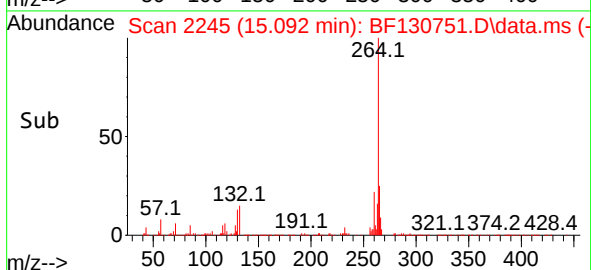
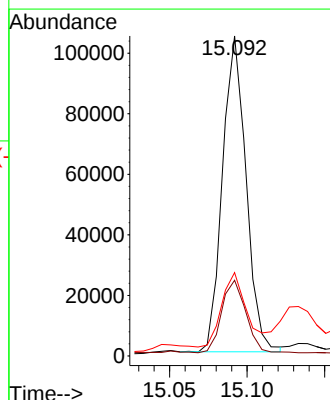
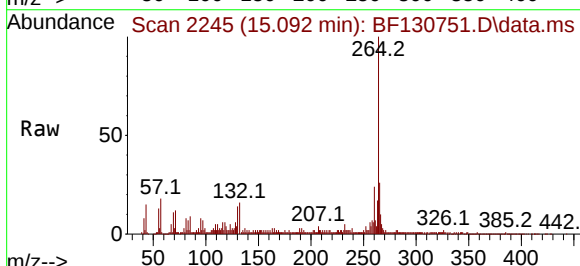
RT: 15.092 min Scan# 2245

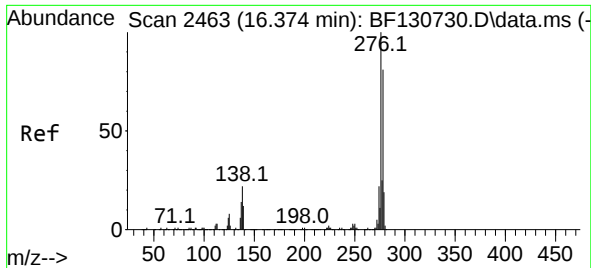
Delta R.T. 0.012 min

Lab File: BF130751.D

Acq: 21 Oct 2022 18:23

Tgt Ion:264 Resp: 110348
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.8 28.2
 265 26.0 16.2 24.4#





#87
Indeno(1,2,3-cd)pyrene
Concen: 73.807 ng
RT: 16.392 min Scan# 2466
Delta R.T. 0.018 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

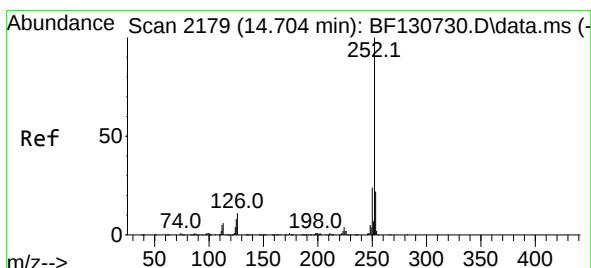
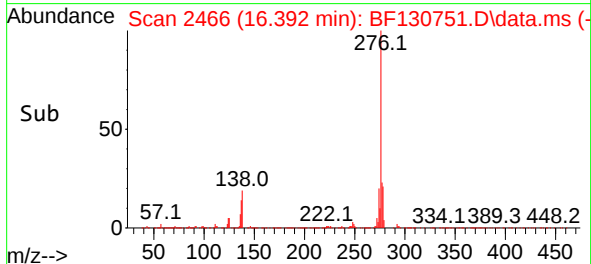
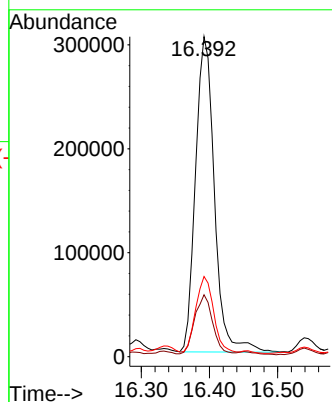
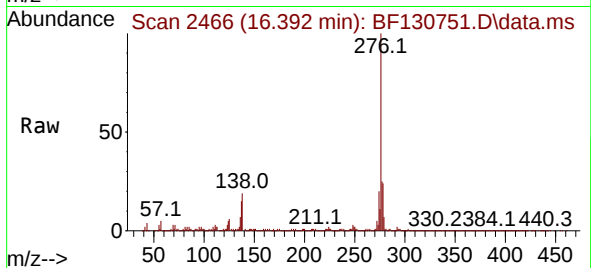
CL-02-101922

Tgt Ion:276 Resp: 58412
Ion Ratio Lower Upper
276 100
138 19.0 17.2 25.8
277 22.2 20.1 30.1

Manual Integrations

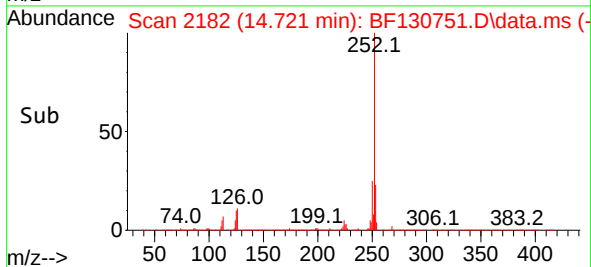
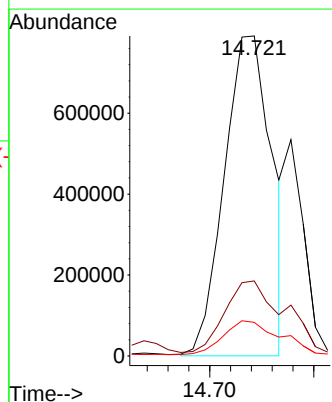
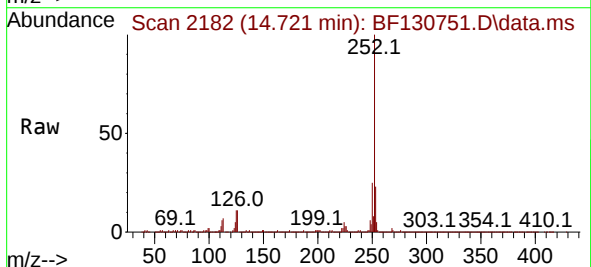
APPROVED

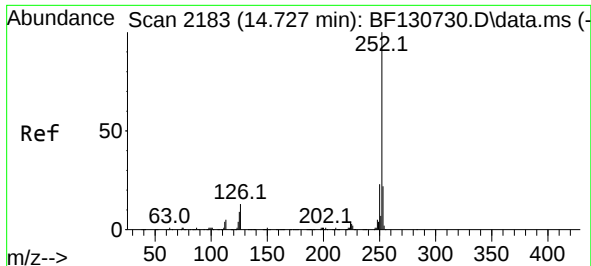
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#88
Benzo(b)fluoranthene
Concen: 170.572 ng m
RT: 14.721 min Scan# 2182
Delta R.T. 0.018 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Tgt Ion:252 Resp: 1253240
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 10.5 6.4 9.6#





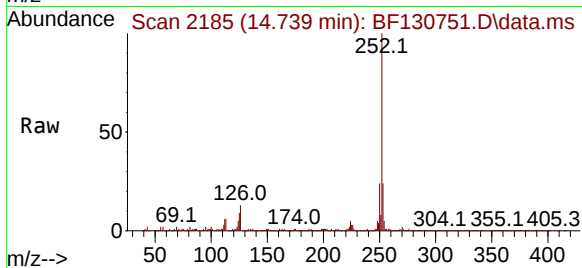
#89
Benzo(k)fluoranthene
Concen: 45.422 ng m
RT: 14.739 min Scan# 2183
Delta R.T. 0.012 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

Instrument :

BNA_F

ClientSampleId :

CL-02-101922

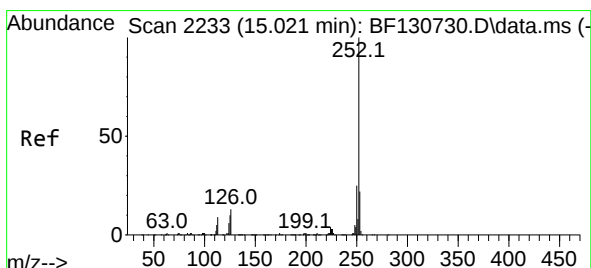
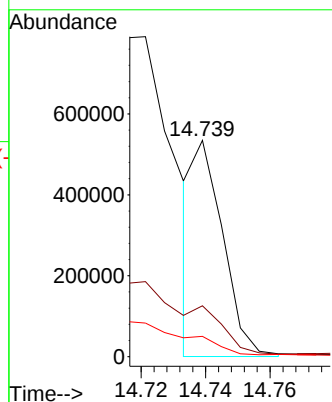
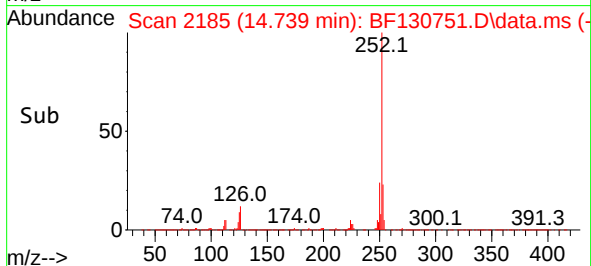


Tgt Ion:252 Resp: 335280
Ion Ratio Lower Upper
252 100
253 23.5 17.7 26.5
125 9.4 7.2 10.8

Manual Integrations

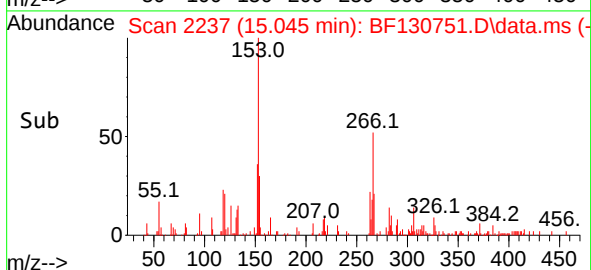
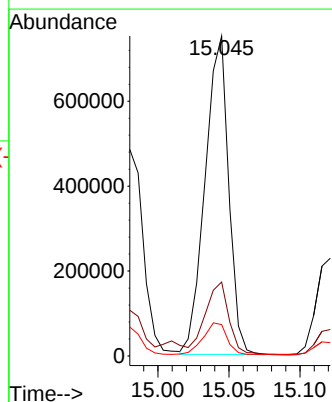
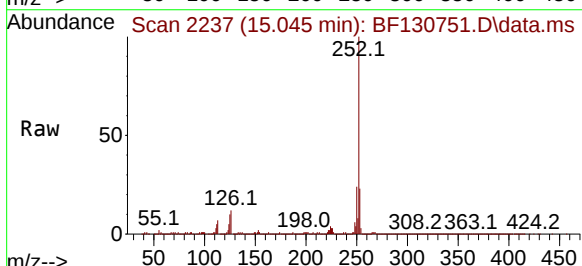
APPROVED

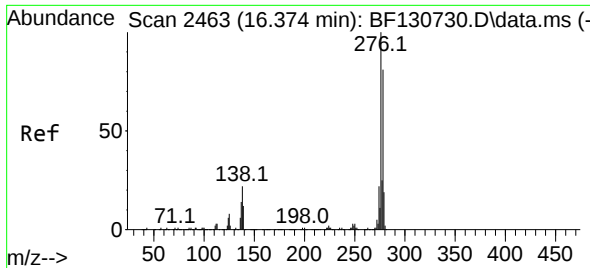
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#90
Benzo(a)pyrene
Concen: 147.054 ng
RT: 15.045 min Scan# 2237
Delta R.T. 0.024 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

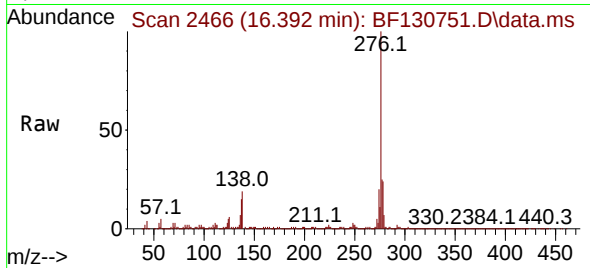
Tgt Ion:252 Resp: 867784
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 9.8 8.3 12.5





#91
Dibenzo(a,h)anthracene
Concen: 21.125 ng m
RT: 16.392 min Scan# 2463
Delta R.T. 0.018 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23

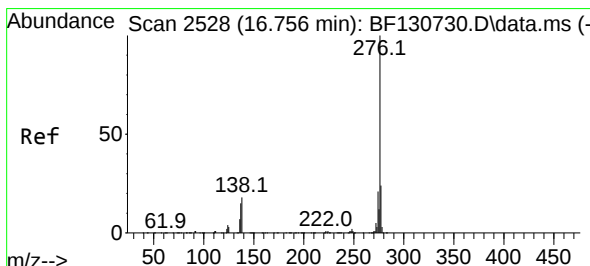
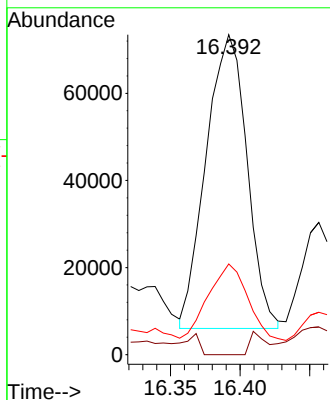
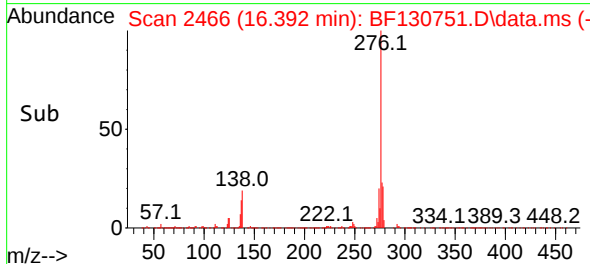
Instrument :
BNA_F
ClientSampleId :
CL-02-101922



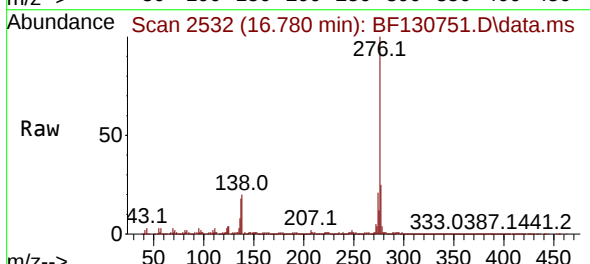
Tgt Ion:278 Resp: 13814
Ion Ratio Lower Upper
278 100
139 0.0 11.4 17.0
279 28.3 18.4 27.6

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#92
Benzo(g,h,i)perylene
Concen: 81.131 ng
RT: 16.780 min Scan# 2532
Delta R.T. 0.024 min
Lab File: BF130751.D
Acq: 21 Oct 2022 18:23



Tgt Ion:276 Resp: 532113
Ion Ratio Lower Upper
276 100
277 25.2 19.1 28.7
138 20.2 14.2 21.2

