

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102122\
 Data File : BF130748.D
 Acq On : 21 Oct 2022 16:48
 Operator : CG\JU
 Sample : N5229-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LRH-COMP-1

Manual Integrations
 APPROVED

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

Quant Time: Oct 21 18:18:47 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.563	152	92802	20.000	ng	0.00
21) Naphthalene-d8	7.845	136	332973	20.000	ng	0.00
39) Acenaphthene-d10	9.586	164	148266	20.000	ng	0.00
64) Phenanthrene-d10	11.069	188	186575	20.000	ng	0.00
76) Chrysene-d12	13.704	240	152123	20.000	ng	0.00
86) Perylene-d12	15.080	264	129736	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.169	112	478734	88.956	ng	0.00
7) Phenol-d6	6.216	99	613763	94.260	ng	0.00
23) Nitrobenzene-d5	7.134	82	399098	63.582	ng	0.00
42) 2,4,6-Tribromophenol	10.380	330	123134	87.329	ng	0.00
45) 2-Fluorobiphenyl	8.916	172	665692	68.422	ng	-0.01
79) Terphenyl-d14	12.651	244	498190	55.188	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.863	128	66450	3.870	ng	99
37) 2-Methylnaphthalene	8.557	142	37880	3.367	ng	100
38) 1-Methylnaphthalene	8.651	142	25780	2.312	ng	96
52) Acenaphthene	9.622	154	36229	4.600	ng	98
55) Dibenzofuran	9.798	168	43282	3.570	ng	95
58) Fluorene	10.133	166	48862	4.846	ng	97
71) Phenanthrene	11.098	178	777597	76.002	ng	99
72) Anthracene	11.145	178	298062	29.193	ng	100
73) Carbazole	11.310	167	206770	21.935	ng	99
75) Fluoranthene	12.286	202	1317584	127.385	ng	99
78) Pyrene	12.510	202	1070484	83.835	ng	98
81) Benzo(a)anthracene	13.698	228	579302	56.992	ng	98
83) Chrysene	13.733	228	531032	53.920	ng	98
87) Indeno(1,2,3-cd)pyrene	16.374	276	196629	21.132	ng	96
88) Benzo(b)fluoranthene	14.710	252	619800m	71.751	ng	
89) Benzo(k)fluoranthene	14.727	252	219508m	25.293	ng	
90) Benzo(a)pyrene	15.027	252	350731	50.552	ng	98
91) Dibenzo(a,h)anthracene	16.374	278	53897m	7.010	ng	
92) Benzo(g,h,i)perylene	16.762	276	183032	23.736	ng	100

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

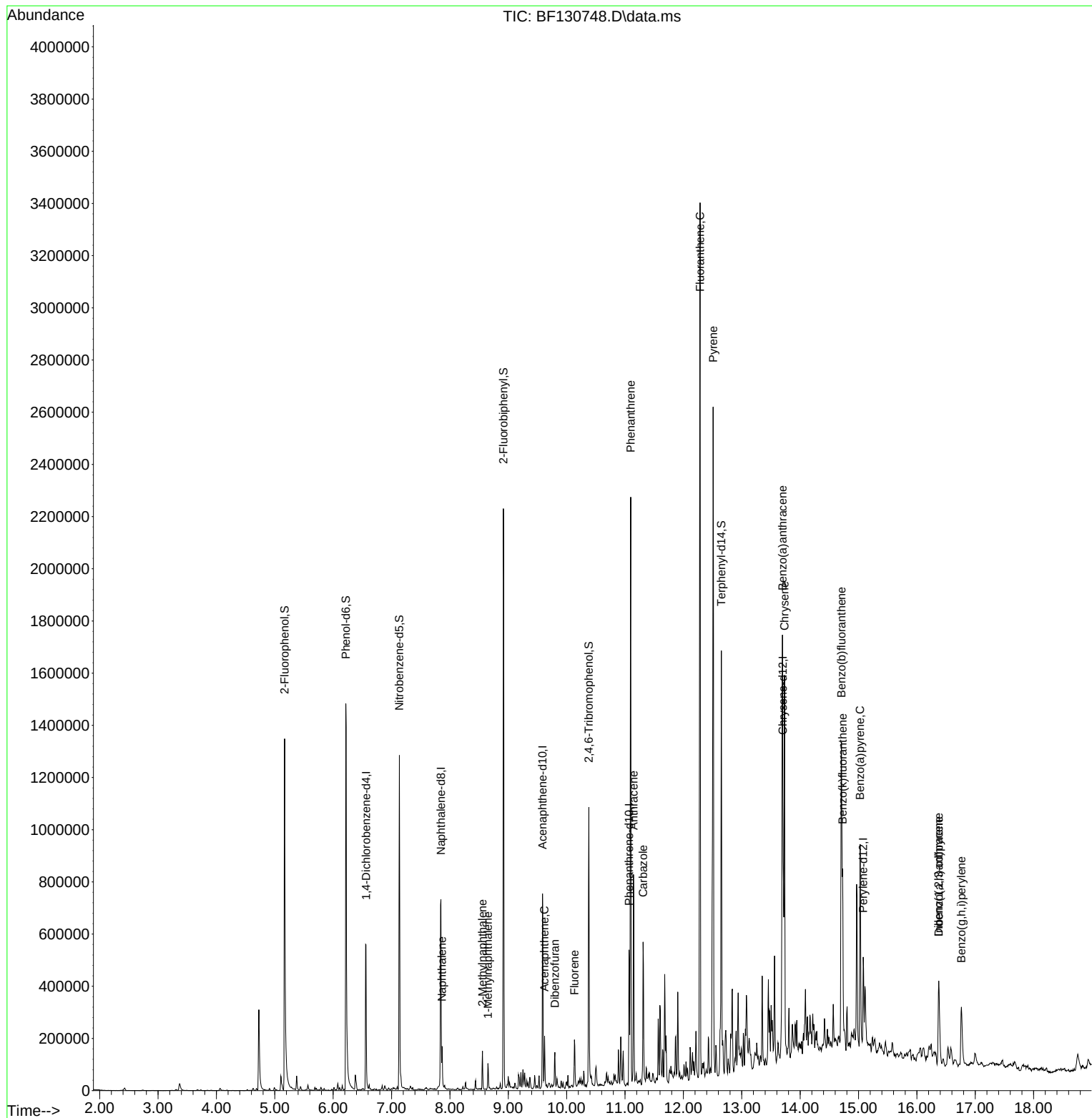
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102122\
Data File : BF130748.D
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Operator : CG\JU
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ALS Vial : 12 Sample Multiplier: 1

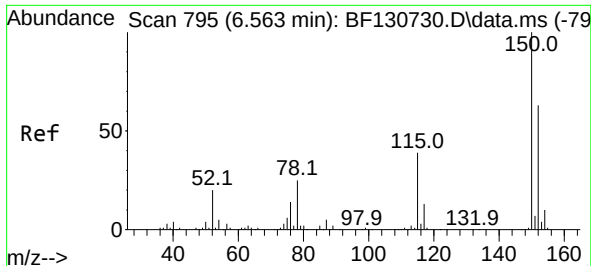
Instrument :
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Quant Time: Oct 21 18:18:47 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102022.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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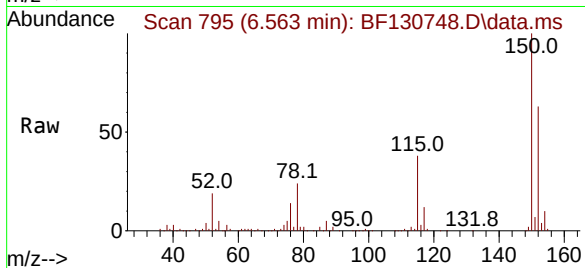
Reviewed By : Christian Giraldo 10/24/2022
Supervised By : Jagrut Upadhyay 10/24/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.563 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

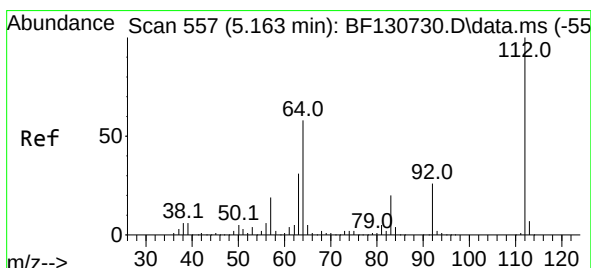
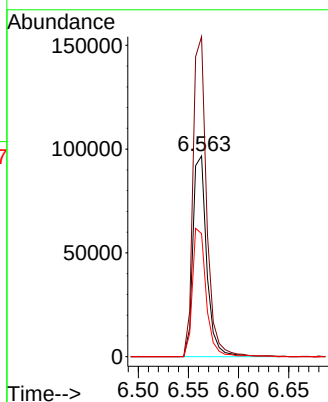
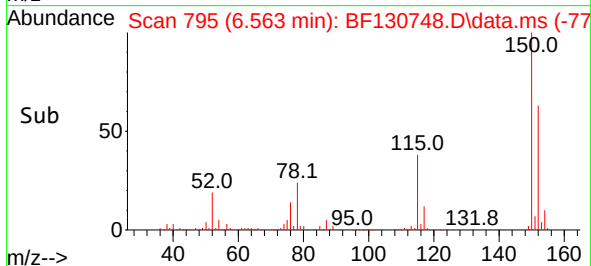
Instrument :
BNA_F
ClientSampleId :
LRH-COMP-1



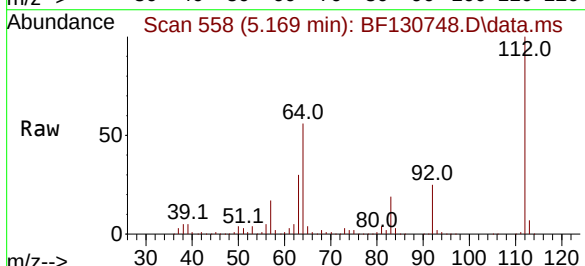
Tgt Ion:152 Resp: 92802
Ion Ratio Lower Upper
152 100
150 159.4 127.0 190.6
115 61.3 49.9 74.9

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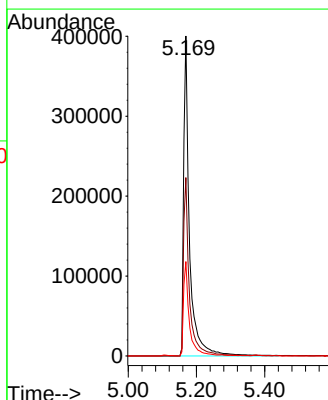
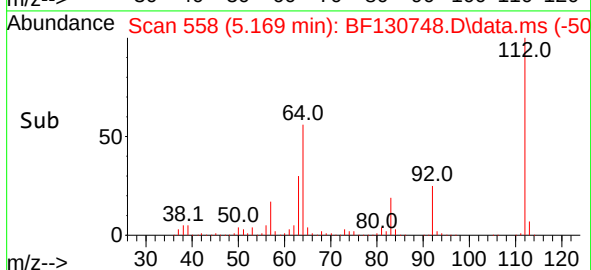
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022

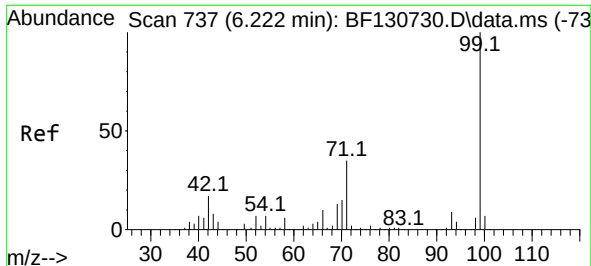


#5
2-Fluorophenol
Concen: 88.956 ng
RT: 5.169 min Scan# 558
Delta R.T. 0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48



Tgt Ion:112 Resp: 478734
Ion Ratio Lower Upper
112 100
64 55.8 46.2 69.4
63 29.5 25.1 37.7





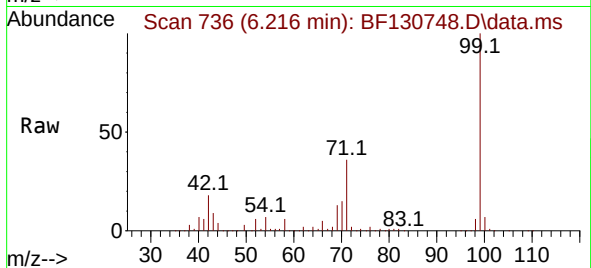
#7
Phenol-d6
Concen: 94.260 ng
RT: 6.216 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

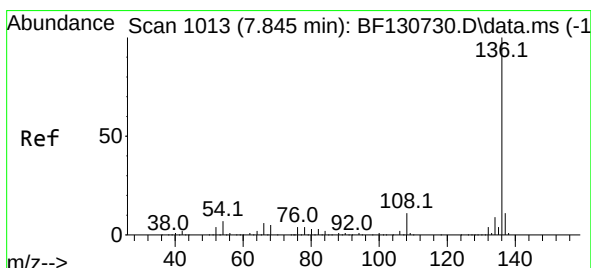
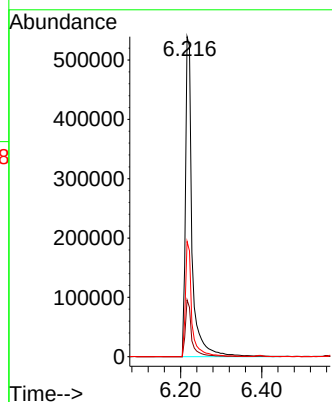
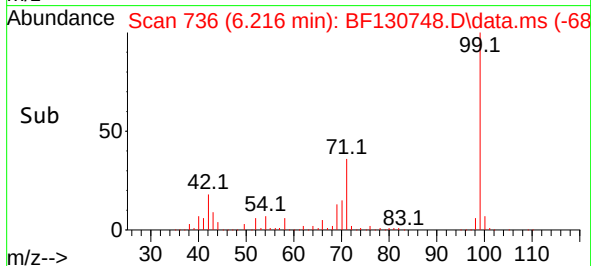


Tgt Ion: 99 Resp: 61376
Ion Ratio Lower Upper
99 100
42 17.8 13.8 20.8
71 36.0 28.3 42.5

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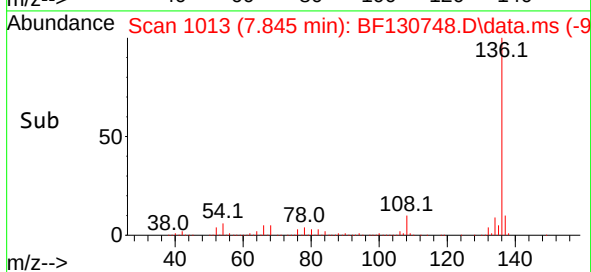
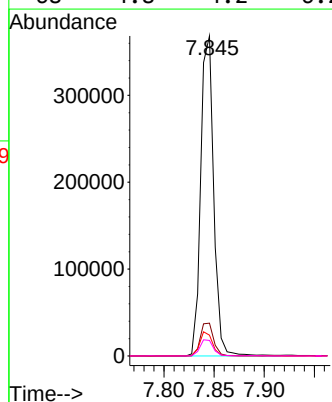
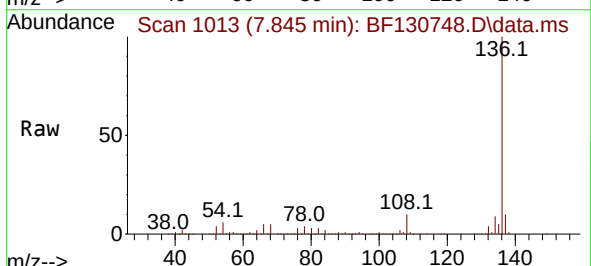
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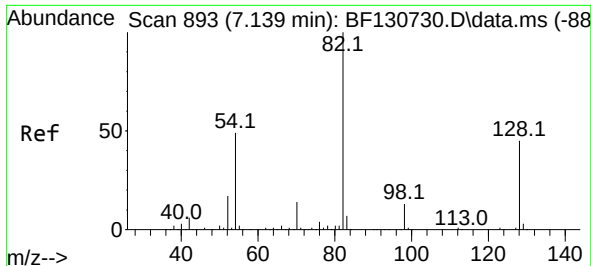
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.845 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:136 Resp: 332973
Ion Ratio Lower Upper
136 100
137 10.3 9.1 13.7
54 6.5 5.8 8.8
68 4.8 4.2 6.2





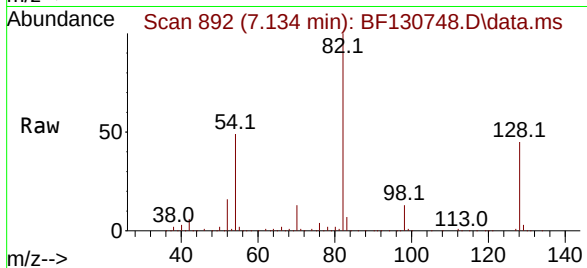
#23
 Nitrobenzene-d5
 Concen: 63.582 ng
 RT: 7.134 min Scan# 89
 Delta R.T. -0.005 min
 Lab File: BF130748.D
 Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

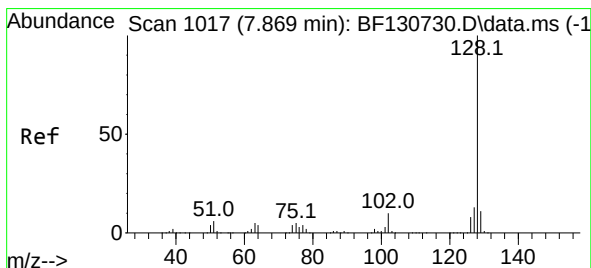
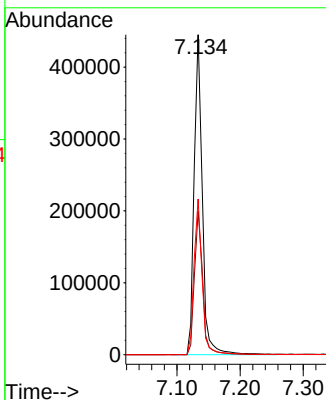
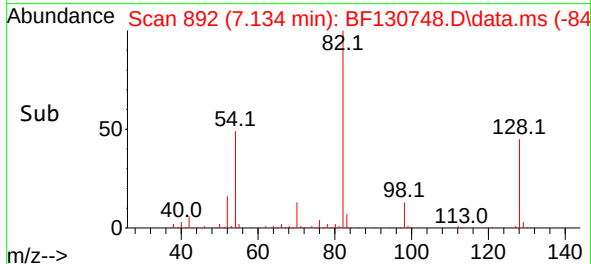


Tgt Ion: 82 Resp: 399098
 Ion Ratio Lower Upper
 82 100
 128 44.8 35.9 53.9
 54 48.6 39.2 58.8

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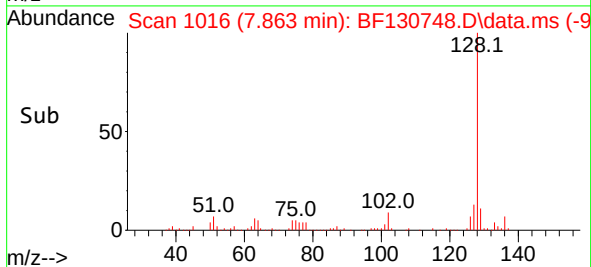
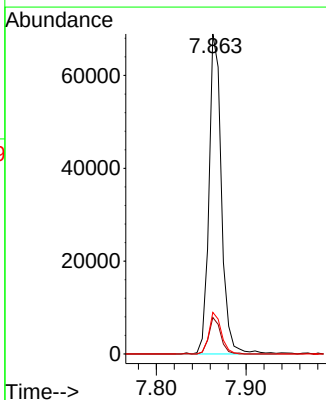
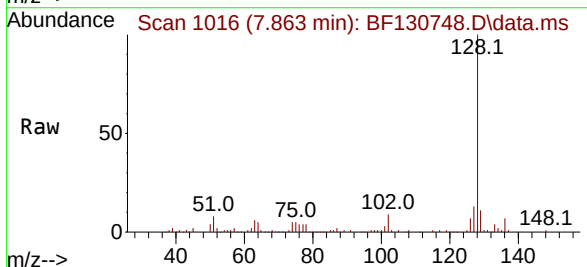
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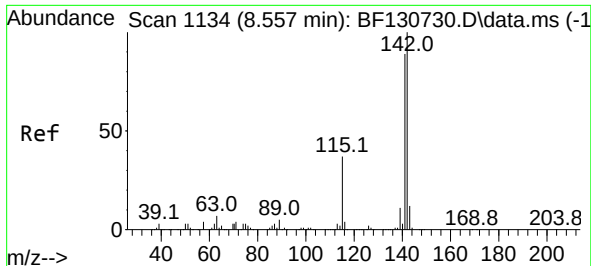
Reviewed By :Christian Giraldo 10/24/2022
 Supervised By :Jagrut Upadhyay 10/24/2022



#31
 Naphthalene
 Concen: 3.870 ng
 RT: 7.863 min Scan# 1016
 Delta R.T. -0.006 min
 Lab File: BF130748.D
 Acq: 21 Oct 2022 16:48

Tgt Ion:128 Resp: 66450
 Ion Ratio Lower Upper
 128 100
 129 11.4 8.9 13.3
 127 13.0 10.6 16.0





#37

2-Methylnaphthalene

Concen: 3.367 ng

RT: 8.557 min Scan# 1134

Delta R.T. 0.000 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

Tgt Ion:142 Resp: 37880

Ion Ratio Lower Upper

142 100

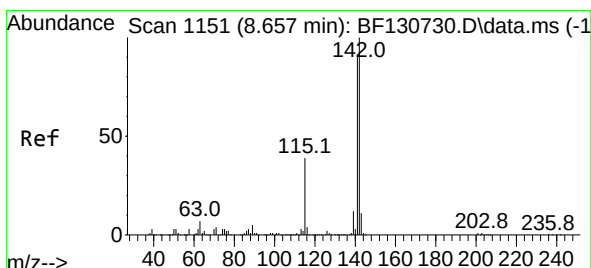
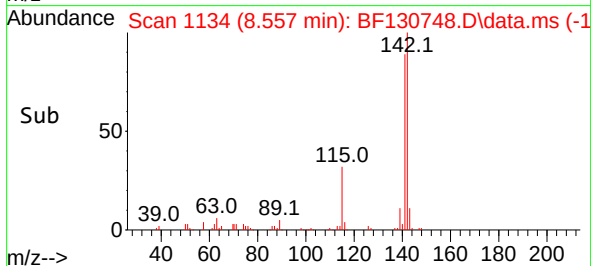
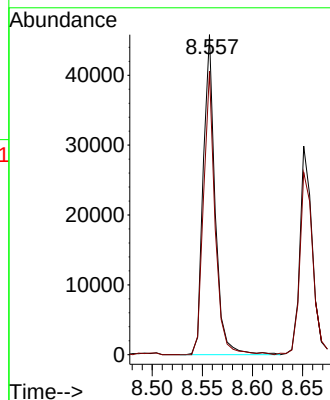
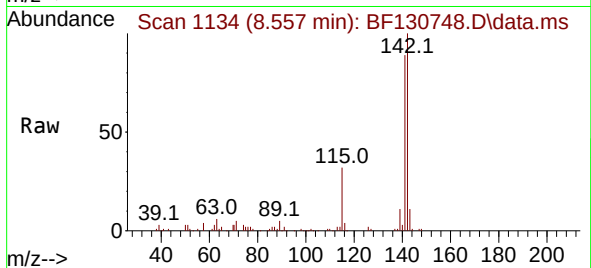
141 88.6 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022



#38

1-Methylnaphthalene

Concen: 2.312 ng

RT: 8.651 min Scan# 1150

Delta R.T. -0.006 min

Lab File: BF130748.D

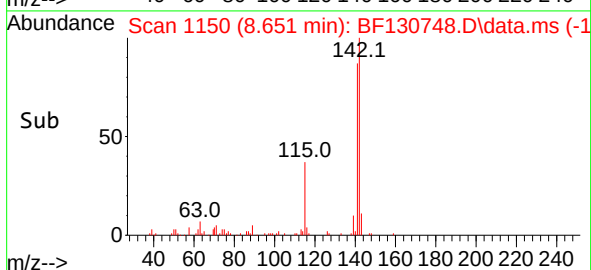
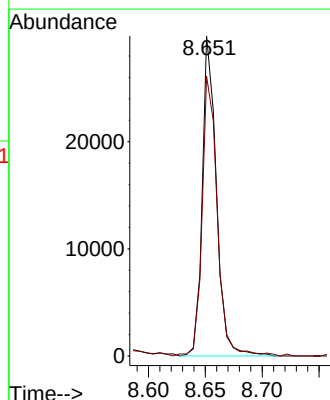
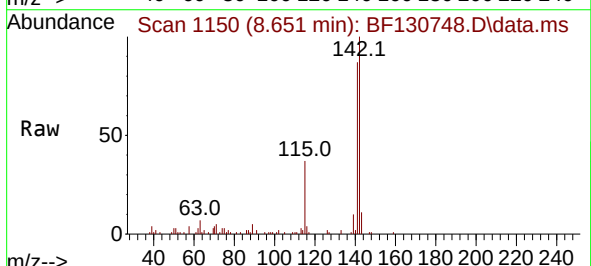
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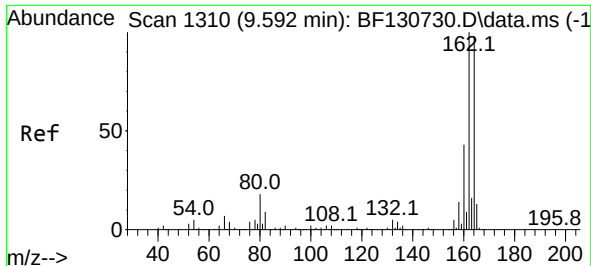
Tgt Ion:142 Resp: 25780

Ion Ratio Lower Upper

142 100

141 87.3 73.0 109.4





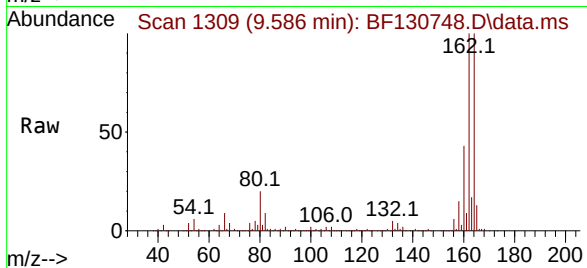
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.586 min Scan# 1309
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

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ClientSampleId :

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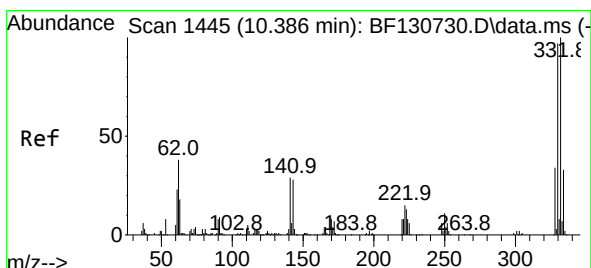
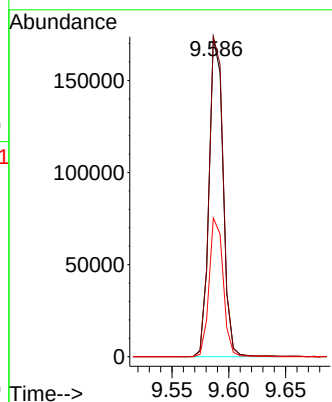
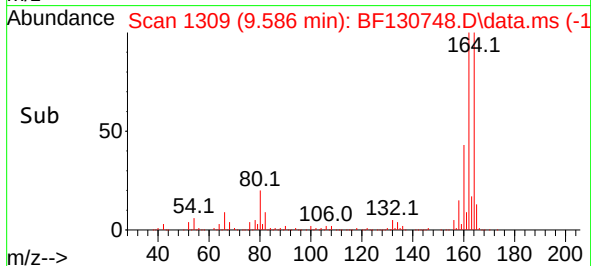


Tgt Ion:164 Resp: 148260
Ion Ratio Lower Upper
164 100
162 100.3 81.4 122.0
160 43.5 35.0 52.4

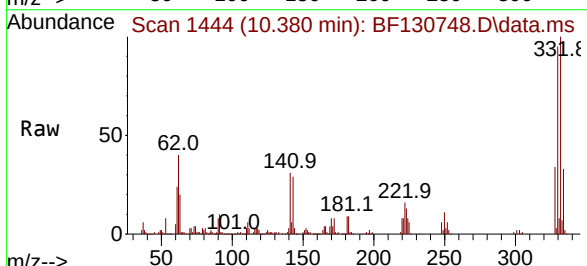
Manual Integrations

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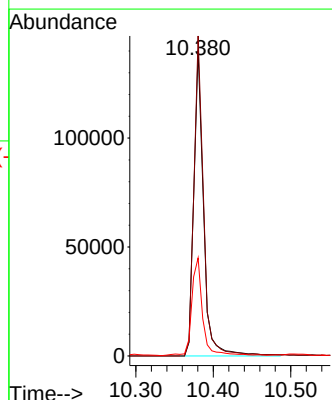
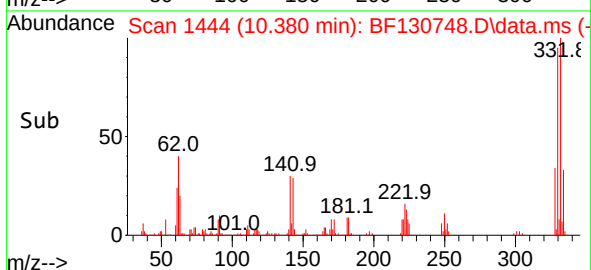
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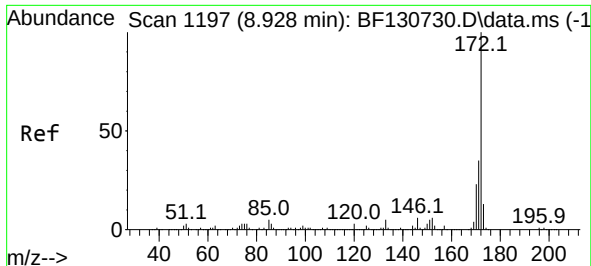


#42
2,4,6-Tribromophenol
Concen: 87.329 ng
RT: 10.380 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48



Tgt Ion:330 Resp: 123134
Ion Ratio Lower Upper
330 100
332 102.5 81.4 122.2
141 35.3 24.6 37.0





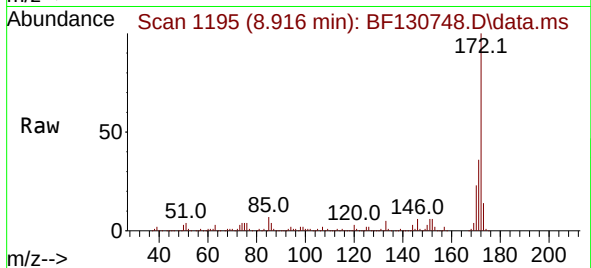
#45
2-Fluorobiphenyl
Concen: 68.422 ng
RT: 8.916 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

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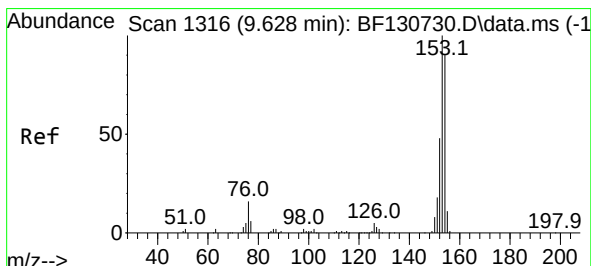
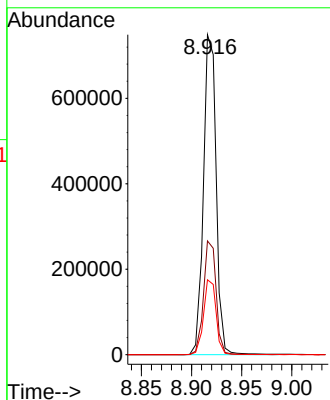
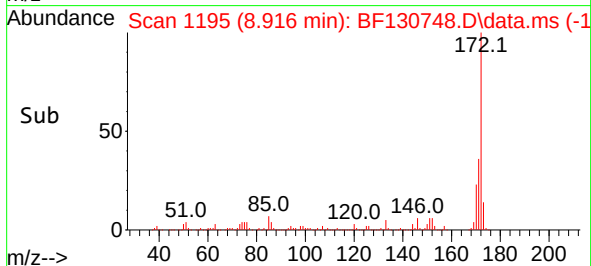


Tgt Ion:172 Resp: 665692
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.2
170 23.4 18.5 27.7

Manual Integrations

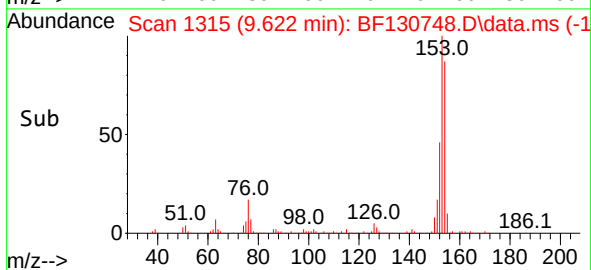
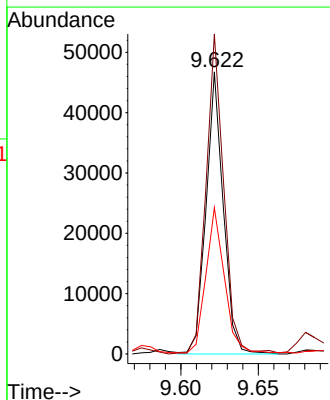
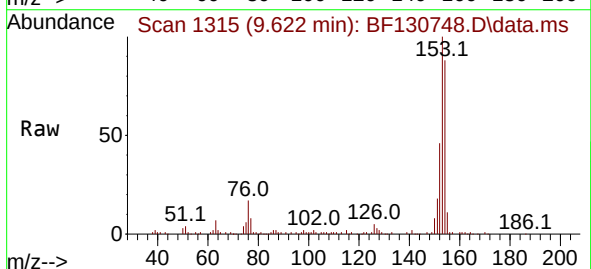
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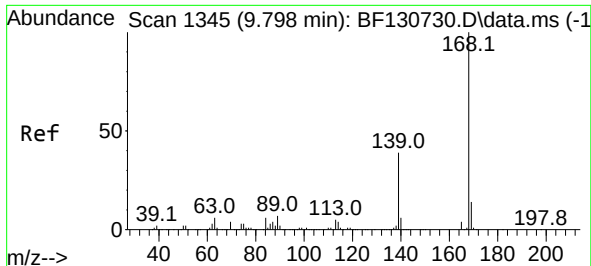
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#52
Acenaphthene
Concen: 4.600 ng
RT: 9.622 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:154 Resp: 36229
Ion Ratio Lower Upper
154 100
153 113.5 88.4 132.6
152 51.8 42.0 63.0





#55
Dibenzenofuran
Concen: 3.570 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

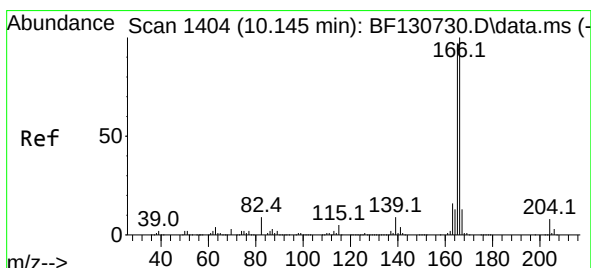
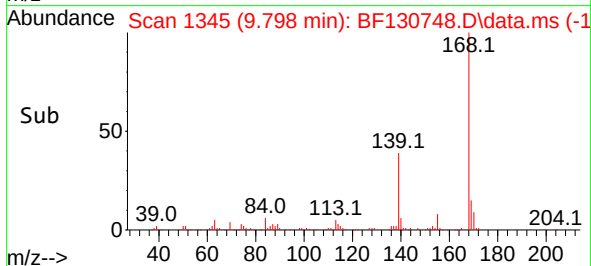
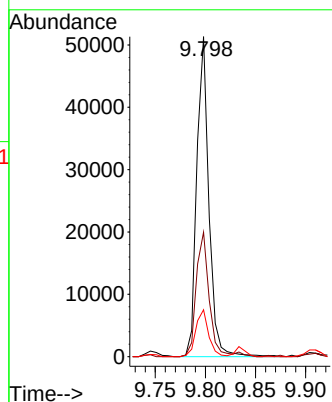
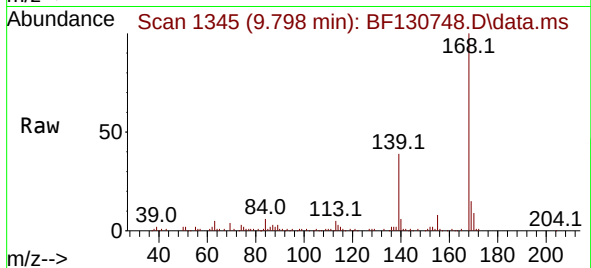
LRH-COMP-1

Tgt Ion:168 Resp: 4328
Ion Ratio Lower Upper
168 100
139 38.9 34.3 51.5
169 14.7 11.0 16.6

Manual Integrations

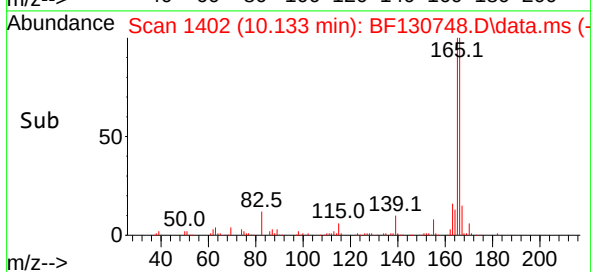
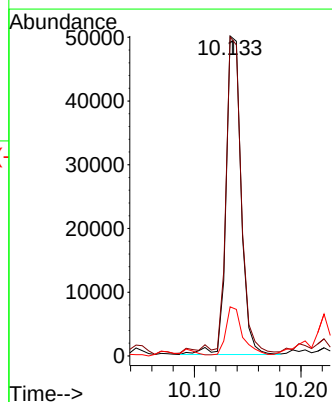
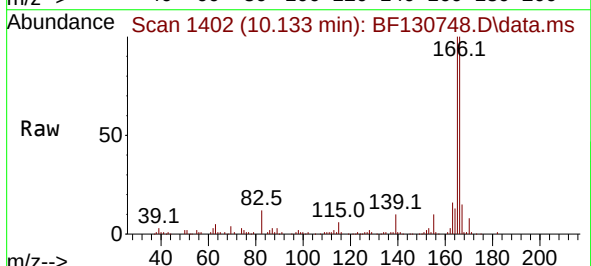
APPROVED

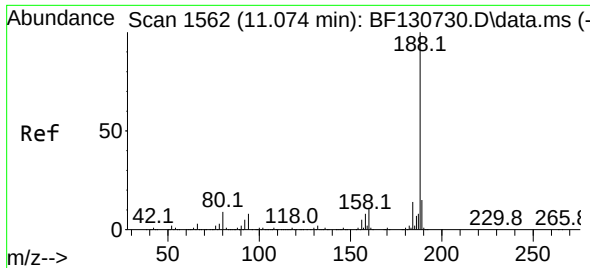
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#58
Fluorene
Concen: 4.846 ng
RT: 10.133 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:166 Resp: 48862
Ion Ratio Lower Upper
166 100
165 99.7 77.6 116.4
167 15.3 10.3 15.5





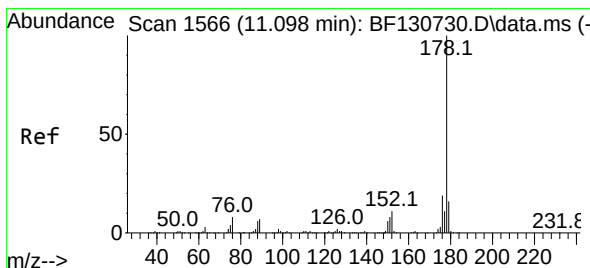
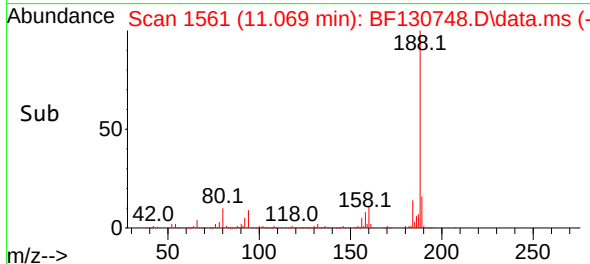
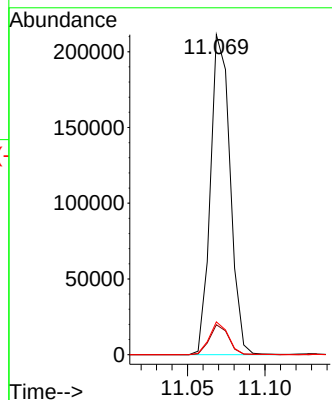
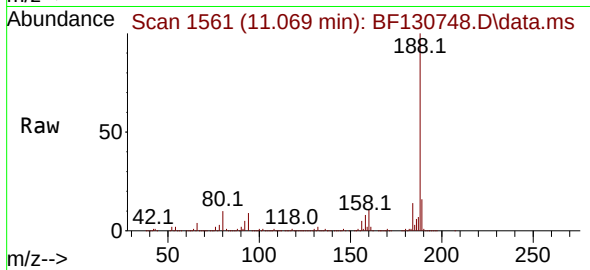
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.069 min Scan# 1561
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :
BNA_F
ClientSampleId :
LRH-COMP-1

Tgt Ion:188 Resp: 186579
Ion Ratio Lower Upper
188 100
94 9.3 6.7 10.1
80 10.3 7.4 11.0

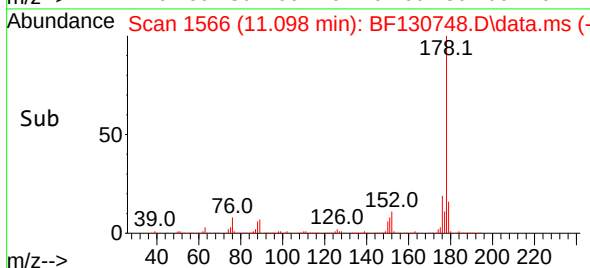
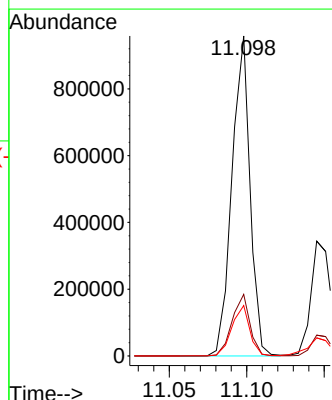
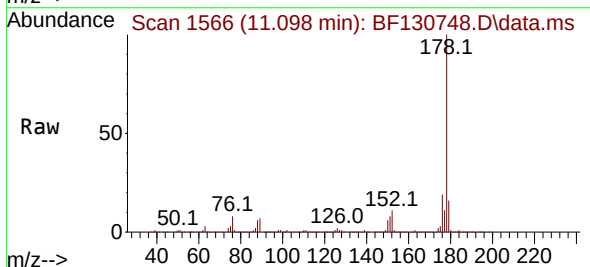
Manual Integrations
APPROVED

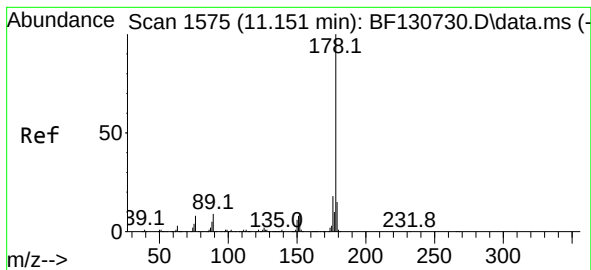
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#71
Phenanthrene
Concen: 76.002 ng
RT: 11.098 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:178 Resp: 777597
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 15.7 12.4 18.6





#72

Anthracene

Concen: 29.193 ng

RT: 11.145 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

Tgt Ion:178 Resp: 298062

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

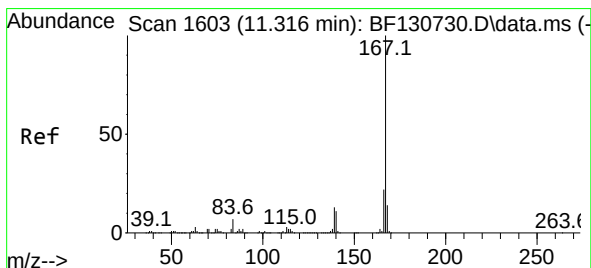
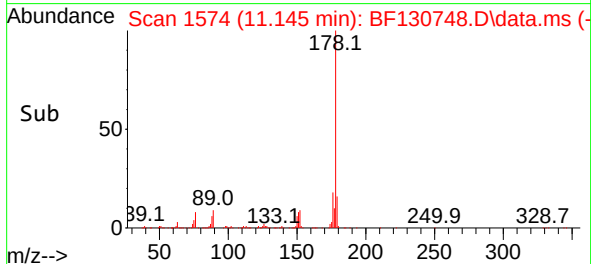
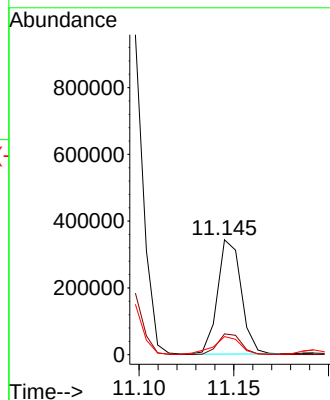
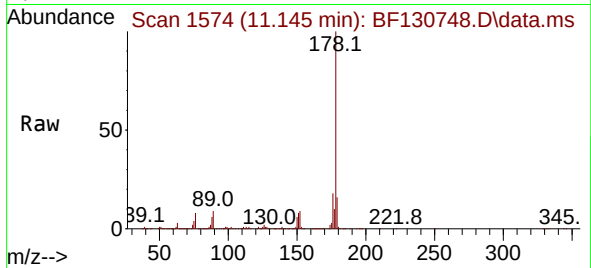
179 15.8 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022



#73

Carbazole

Concen: 21.935 ng

RT: 11.310 min Scan# 1602

Delta R.T. -0.006 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

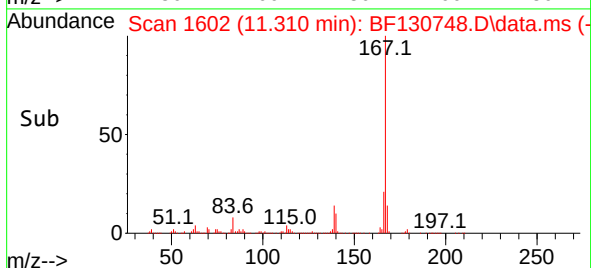
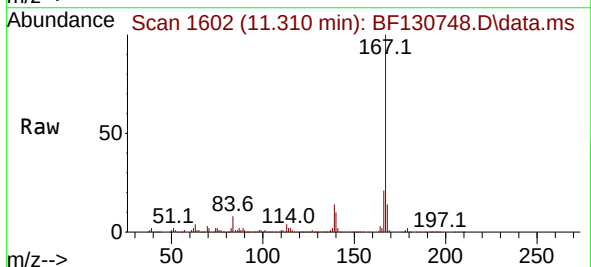
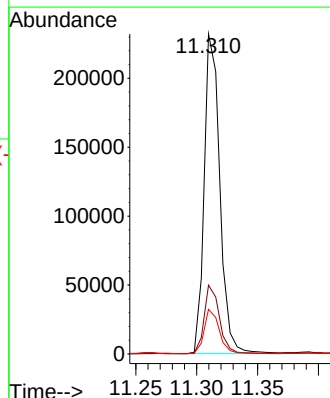
Tgt Ion:167 Resp: 206770

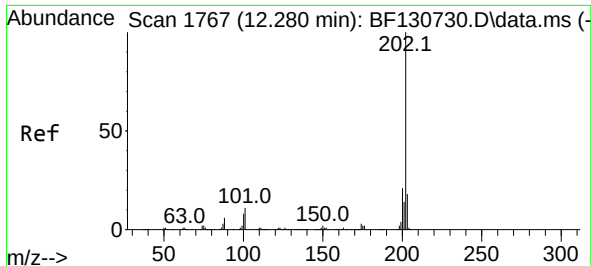
Ion Ratio Lower Upper

167 100

166 21.5 17.3 25.9

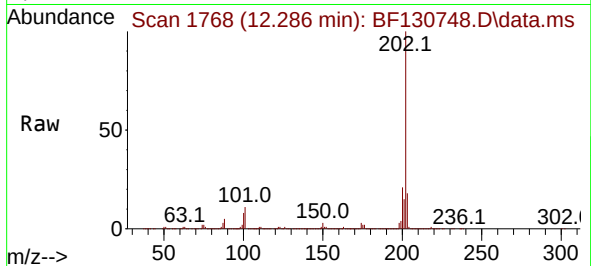
139 14.0 10.7 16.1





#75
Fluoranthene
Concen: 127.385 ng
RT: 12.286 min Scan# 1768
Delta R.T. 0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

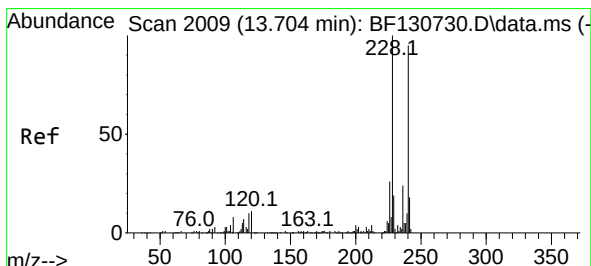
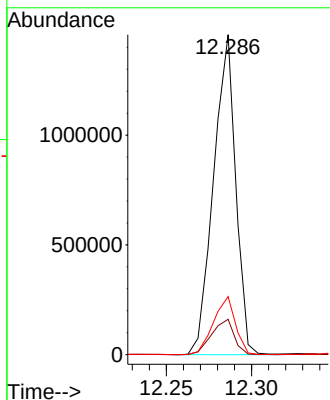
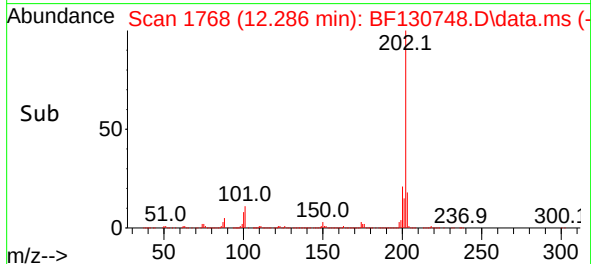
Instrument :
BNA_F
ClientSampleId :
LRH-COMP-1



Tgt Ion:202 Resp: 1317584
Ion Ratio Lower Upper
202 100
101 11.1 0.0 31.0
203 18.1 0.0 37.6

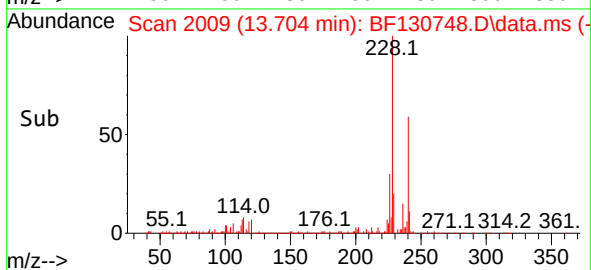
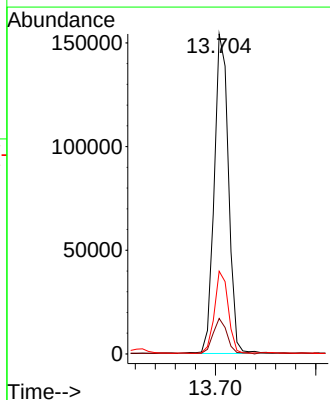
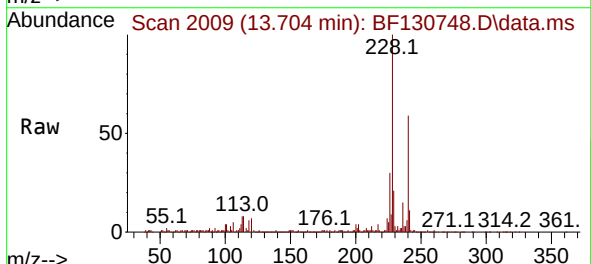
Manual Integrations
APPROVED

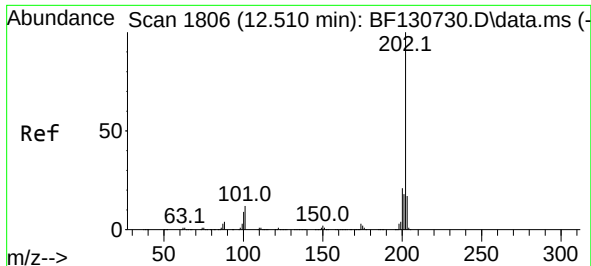
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.704 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

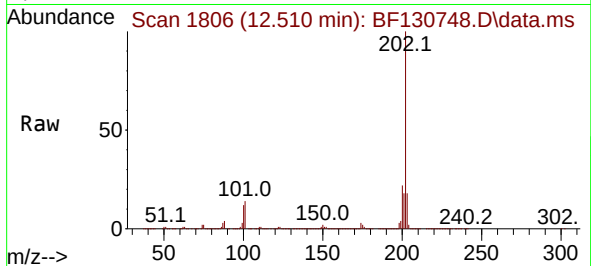
Tgt Ion:240 Resp: 152123
Ion Ratio Lower Upper
240 100
120 11.1 9.6 14.4
236 25.9 20.2 30.2





#78
Pyrene
Concen: 83.835 ng
RT: 12.510 min Scan# 1806
Delta R.T. 0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

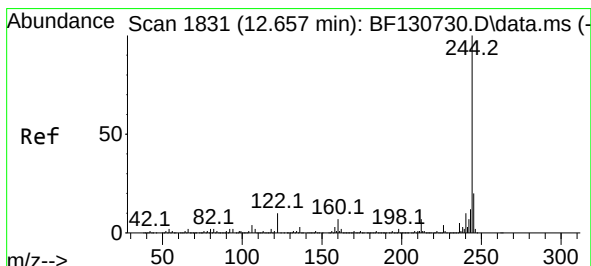
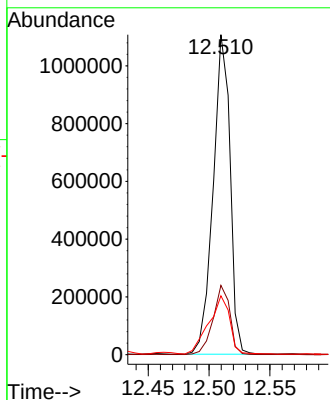
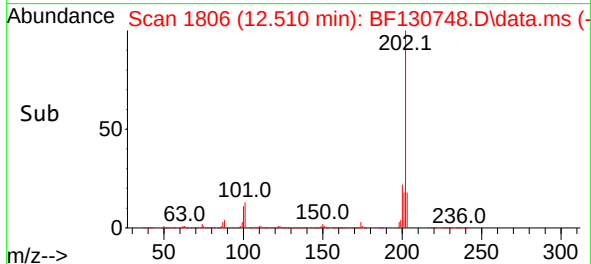
Instrument :
BNA_F
ClientSampleId :
LRH-COMP-1



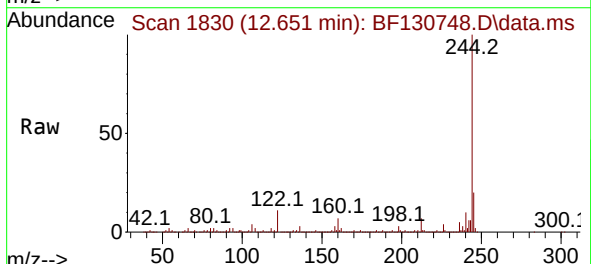
Tgt Ion:202 Resp: 1070484
Ion Ratio Lower Upper
202 100
200 21.6 16.8 25.2
203 18.4 13.8 20.8

Manual Integrations
APPROVED

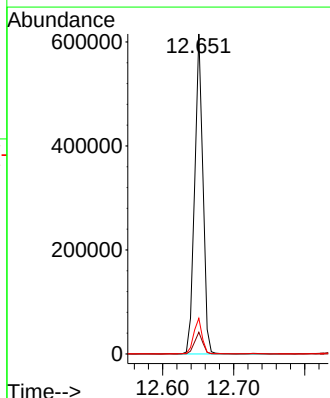
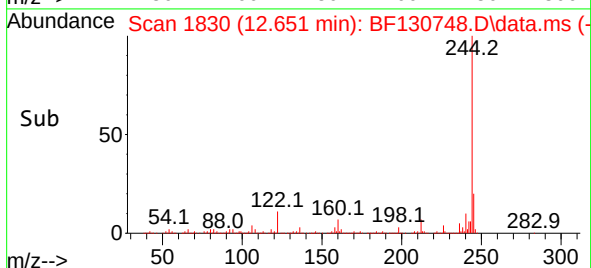
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022

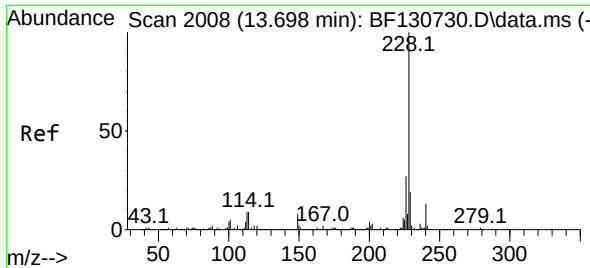


#79
Terphenyl-d14
Concen: 55.188 ng
RT: 12.651 min Scan# 1830
Delta R.T. -0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48



Tgt Ion:244 Resp: 498190
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.0
122 11.2 8.2 12.4





#81
Benzo(a)anthracene
Concen: 56.992 ng
RT: 13.698 min Scan# 2008
Delta R.T. -0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

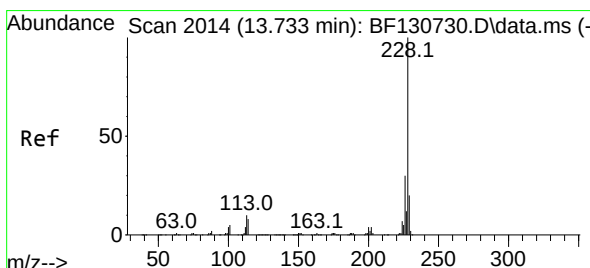
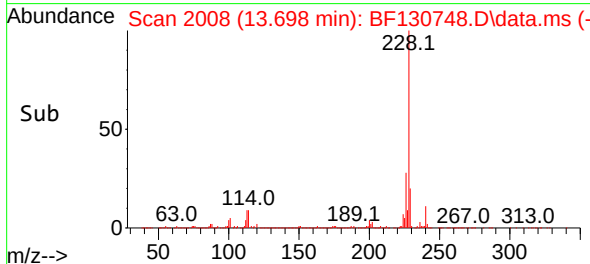
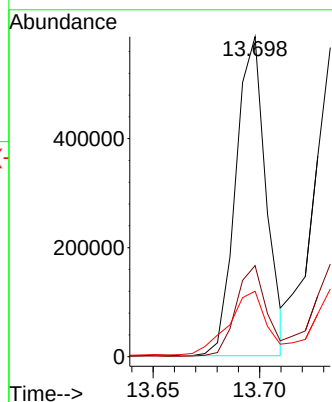
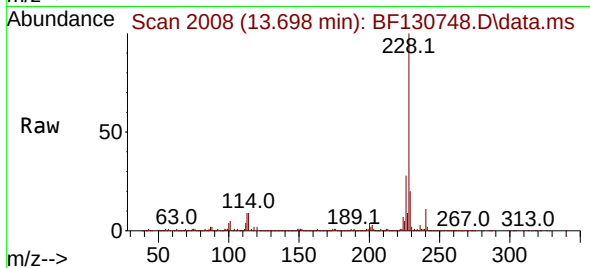
LRH-COMP-1

Tgt Ion:228 Resp: 579302
Ion Ratio Lower Upper
228 100
226 28.5 21.8 32.8
229 20.5 15.4 23.2

Manual Integrations

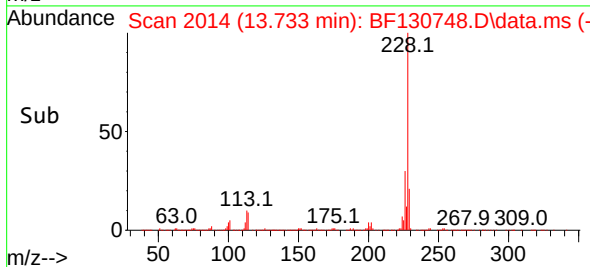
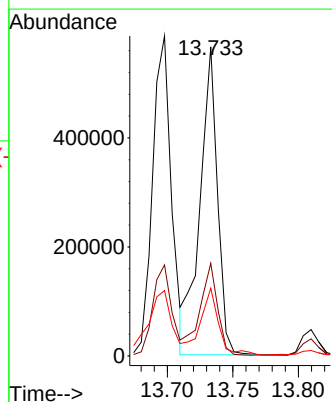
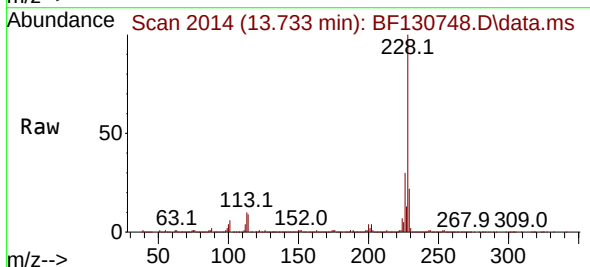
APPROVED

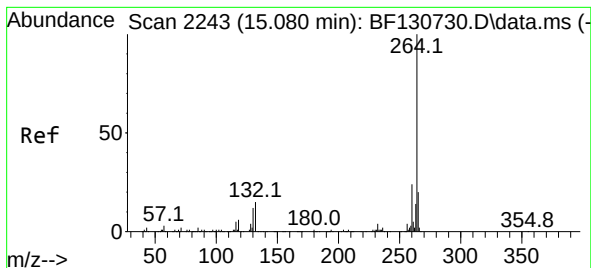
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#83
Chrysene
Concen: 53.920 ng
RT: 13.733 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:228 Resp: 531032
Ion Ratio Lower Upper
228 100
226 30.0 23.6 35.4
229 21.9 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.080 min Scan# 2243

Delta R.T. 0.000 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

Tgt Ion:264 Resp: 129730

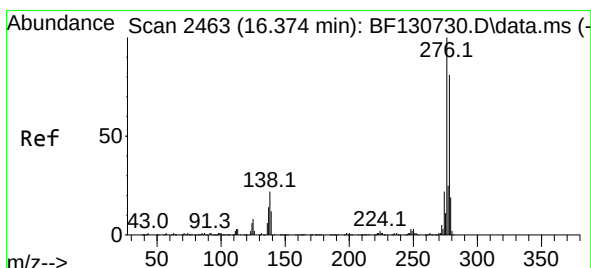
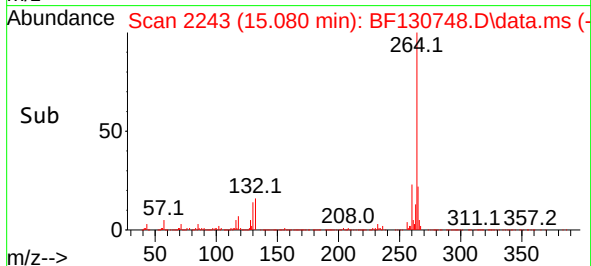
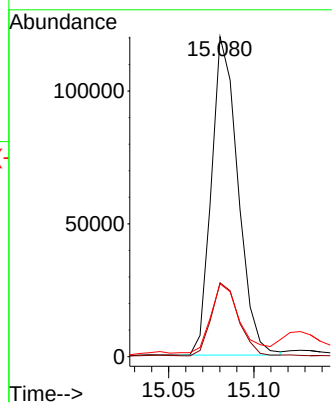
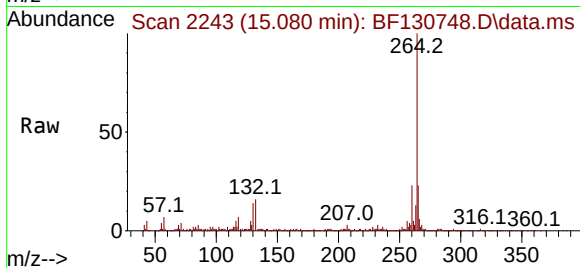
Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.8	28.2
265	22.7	16.2	24.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 21.132 ng

RT: 16.374 min Scan# 2463

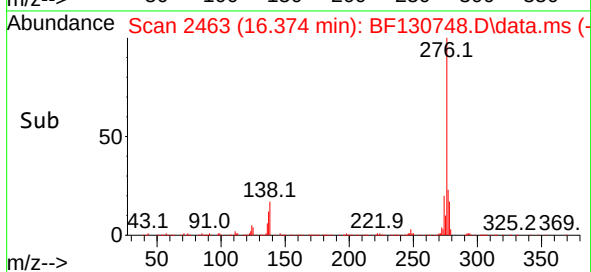
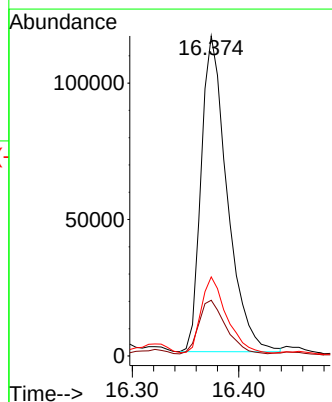
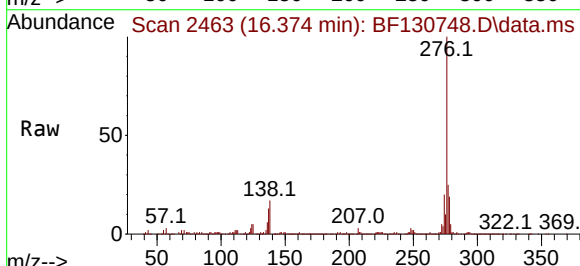
Delta R.T. 0.000 min

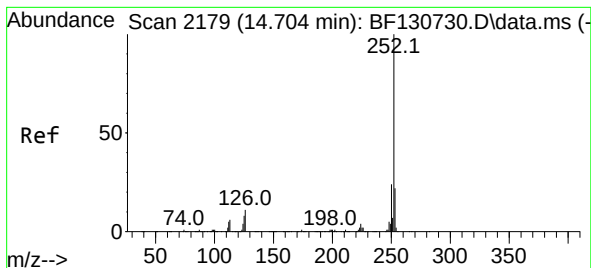
Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Tgt Ion:276 Resp: 196629

Ion	Ratio	Lower	Upper
276	100		
138	18.3	17.2	25.8
277	24.0	20.1	30.1





#88

Benzo(b)fluoranthene

Concen: 71.751 ng m

RT: 14.710 min Scan# 2179

Delta R.T. 0.006 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

Tgt Ion:252 Resp: 619800

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

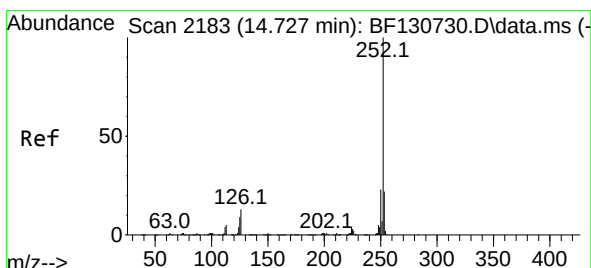
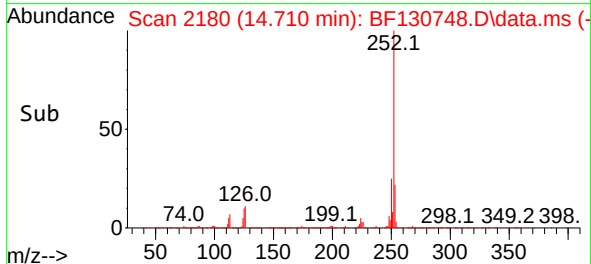
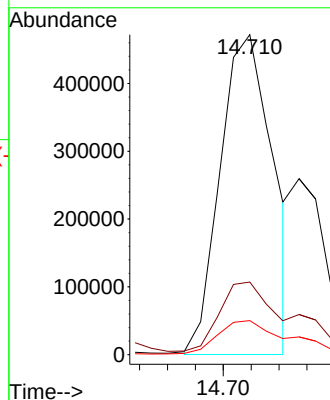
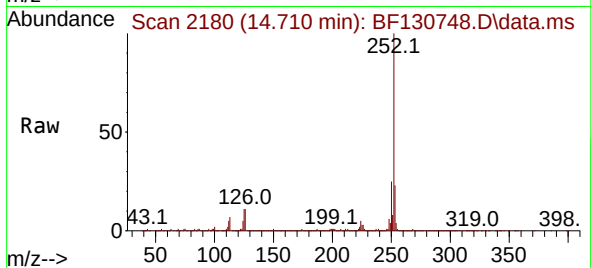
125 10.6 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022



#89

Benzo(k)fluoranthene

Concen: 25.293 ng m

RT: 14.727 min Scan# 2183

Delta R.T. 0.000 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

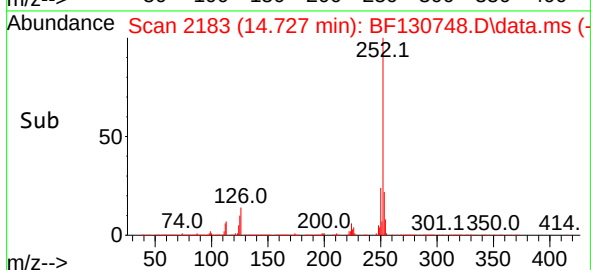
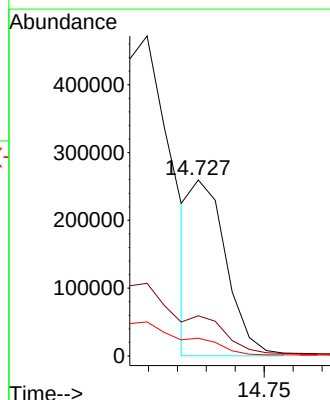
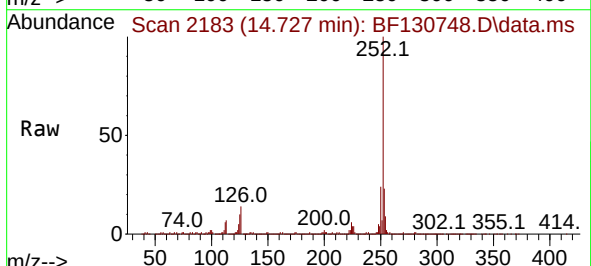
Tgt Ion:252 Resp: 219508

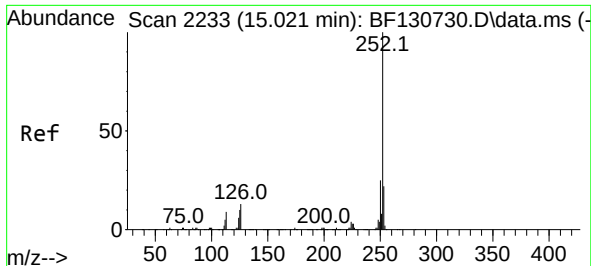
Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

125 10.1 7.2 10.8





#90
Benzo(a)pyrene
Concen: 50.552 ng
RT: 15.027 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

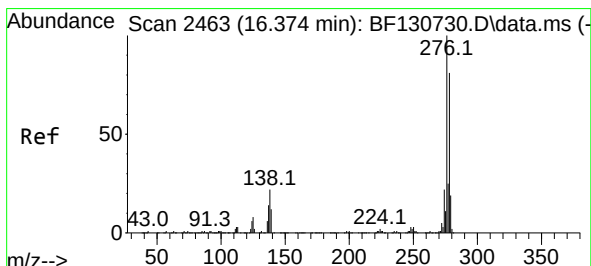
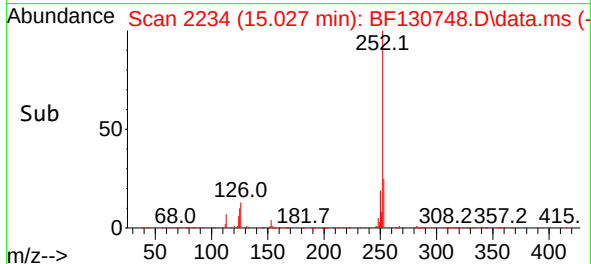
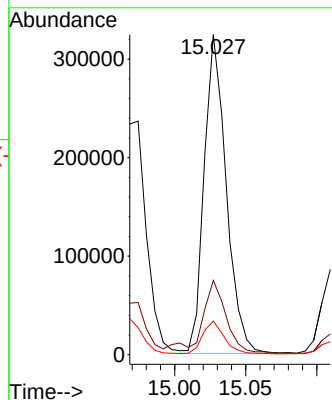
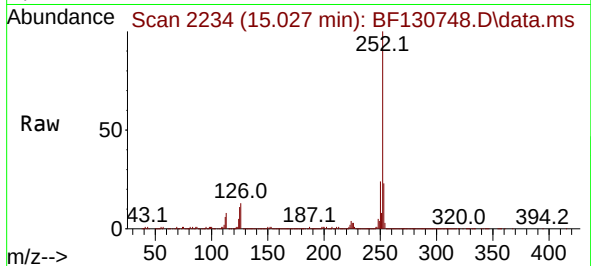
ClientSampleId :

LRH-COMP-1

Tgt Ion:252 Resp: 35073
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 10.5 8.3 12.5

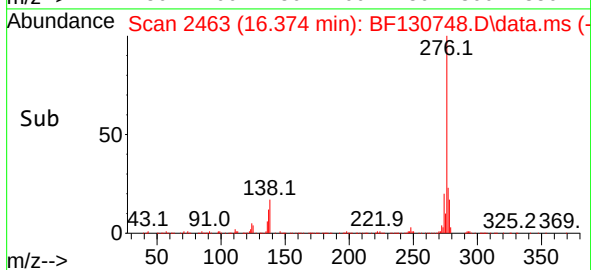
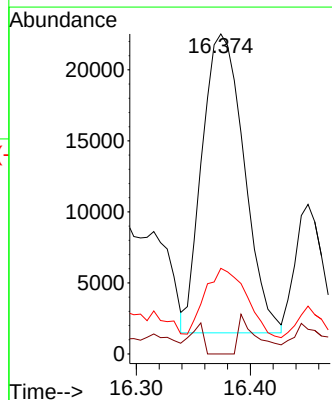
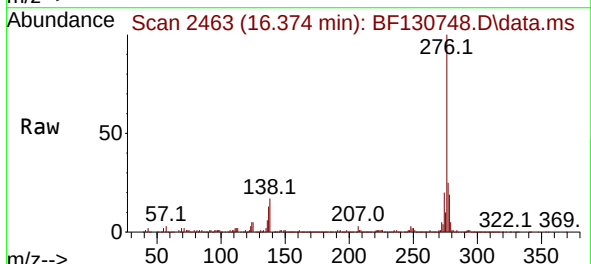
Manual Integrations
APPROVED

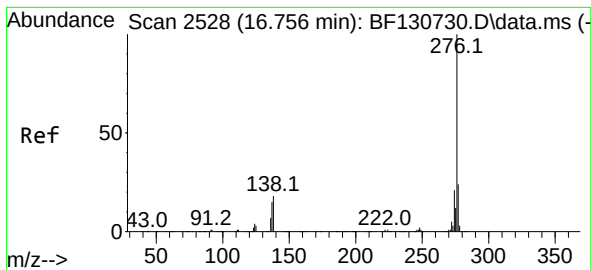
Reviewed By :Christian Giraldo 10/24/2022
Supervised By :Jagrut Upadhyay 10/24/2022



#91
Dibenzo(a,h)anthracene
Concen: 7.010 ng m
RT: 16.374 min Scan# 2463
Delta R.T. 0.000 min
Lab File: BF130748.D
Acq: 21 Oct 2022 16:48

Tgt Ion:278 Resp: 53897
Ion Ratio Lower Upper
278 100
139 0.0 11.4 17.0#
279 26.7 18.4 27.6





#92

Benzo(g,h,i)perylene

Concen: 23.736 ng

RT: 16.762 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF130748.D

Acq: 21 Oct 2022 16:48

Instrument :

BNA_F

ClientSampleId :

LRH-COMP-1

Tgt Ion:276 Resp: 18303

Ion Ratio Lower Upper

276 100

277 24.2 19.1 28.7

138 17.8 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/24/2022

Supervised By :Jagrut Upadhyay 10/24/2022

