

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133048.D
 Acq On : 26 Apr 2023 02:04
 Operator : CG\JU
 Sample : 02389-19 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPB-5WC-23-04-17

Quant Time: Apr 26 03:44:32 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 25 18:24:07 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/26/2023
 Supervised By : Jagrut Upadhyay 04/26/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	204650	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	800941	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	379129	20.000	ng	0.00
64) Phenanthrene-d10	11.257	188	563288	20.000	ng	0.00
76) Chrysene-d12	13.904	240	356835	20.000	ng	0.00
86) Perylene-d12	15.339	264	323298	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.345	112	541232	39.951	ng	0.00
7) Phenol-d6	6.375	99	648304	38.554	ng	-0.01
23) Nitrobenzene-d5	7.298	82	373935	25.200	ng	-0.01
42) 2,4,6-Tribromophenol	10.563	330	123030	32.267	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	657840	29.029	ng	-0.01
79) Terphenyl-d14	12.845	244	498728	24.105	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	7.151	107	37906	2.556	ng	# 60
31) Naphthalene	8.045	128	87251	2.179	ng	99
52) Acenaphthene	9.804	154	58034	2.464	ng	98
58) Fluorene	10.322	166	48025	2.041	ng	99
71) Phenanthrene	11.280	178	703835	23.248	ng	99
72) Anthracene	11.333	178	271532	8.764	ng	99
73) Carbazole	11.486	167	94823	3.437	ng	97
75) Fluoranthene	12.474	202	1073905	35.344	ng	97
78) Pyrene	12.704	202	1024085	33.479	ng	99
80) Butylbenzylphthalate	13.327	149	41311	3.814	ng	# 82
81) Benzo(a)anthracene	13.892	228	476880	19.434	ng	96
83) Chrysene	13.927	228	518448m	21.133	ng	
84) Bis(2-ethylhexyl)phtha...	13.898	149	467879	34.417	ng	100
87) Indeno(1,2,3-cd)pyrene	16.721	276	226390	12.311	ng	95
88) Benzo(b)fluoranthene	14.927	252	577313m	28.069	ng	
89) Benzo(k)fluoranthene	14.951	252	186910m	9.167	ng	
90) Benzo(a)pyrene	15.280	252	352708	18.840	ng	# 90
91) Dibenzo(a,h)anthracene	16.751	278	62499	4.075	ng	# 31
92) Benzo(g,h,i)perylene	17.139	276	212386	14.026	ng	98

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

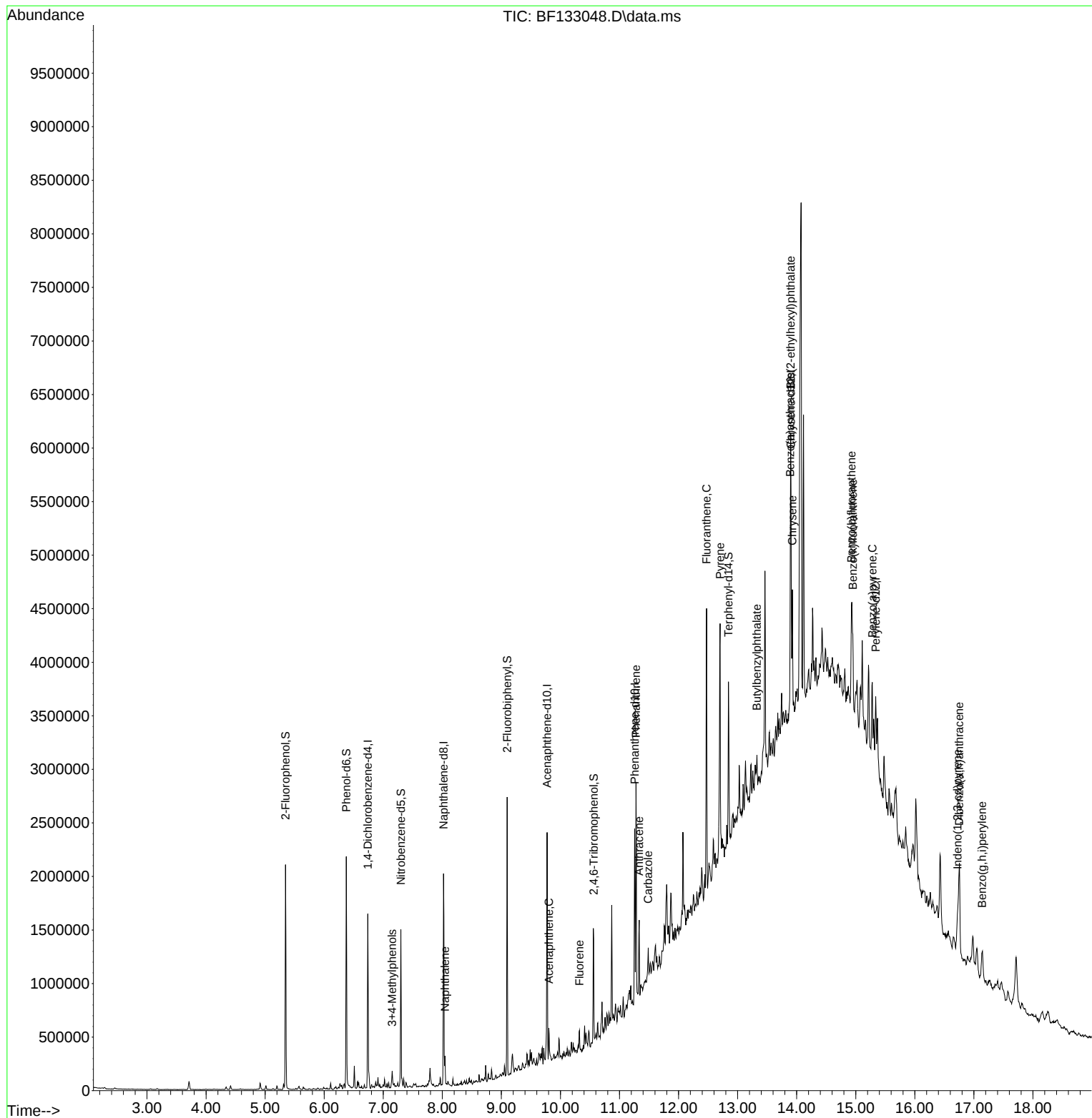
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133048.D
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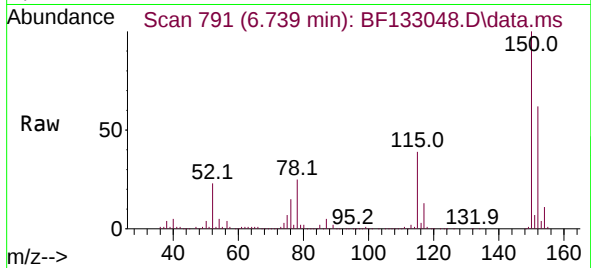
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

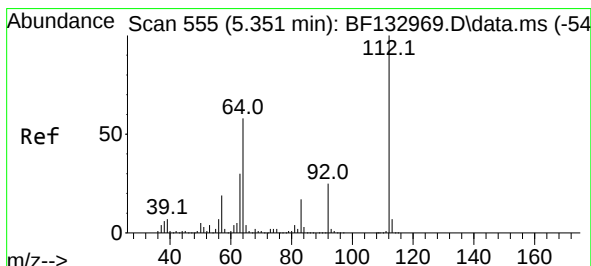
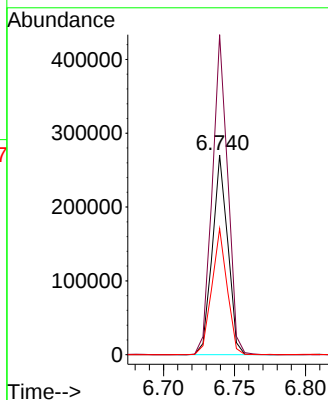
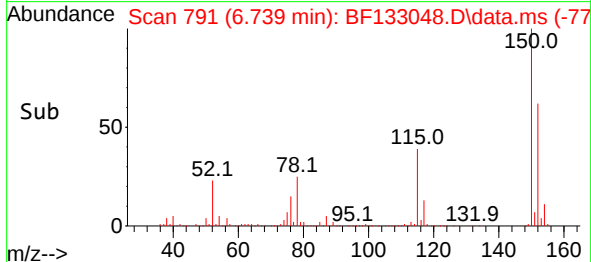
Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17



Tgt Ion:152 Resp: 204650
Ion Ratio Lower Upper
152 100
150 160.2 124.8 187.2
115 63.2 49.9 74.9

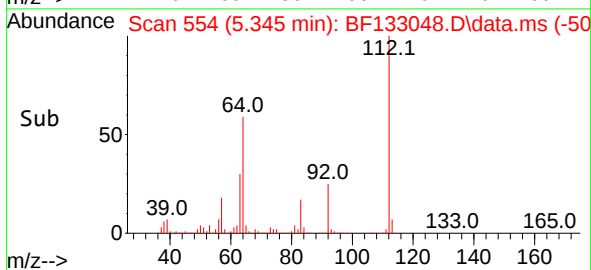
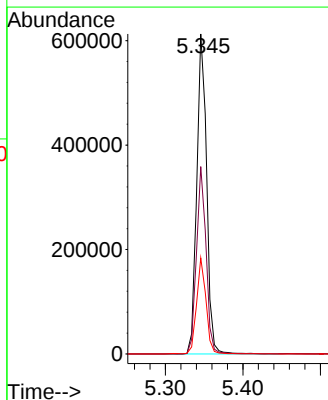
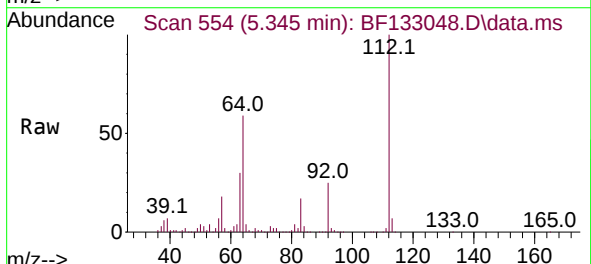
Manual Integrations
APPROVED

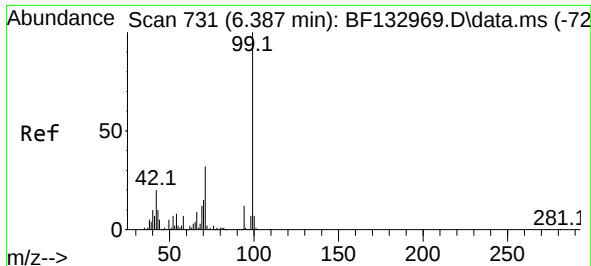
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#5
2-Fluorophenol
Concen: 39.951 ng
RT: 5.345 min Scan# 554
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

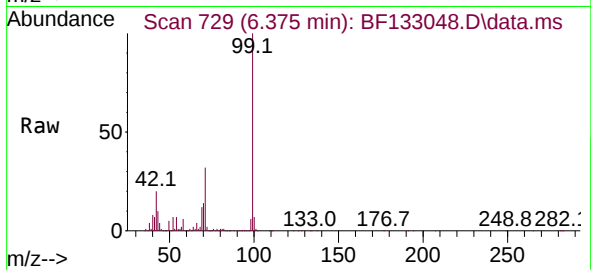
Tgt Ion:112 Resp: 541232
Ion Ratio Lower Upper
112 100
64 58.6 46.8 70.2
63 30.0 23.8 35.8





#7
Phenol-d6
Concen: 38.554 ng
RT: 6.375 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

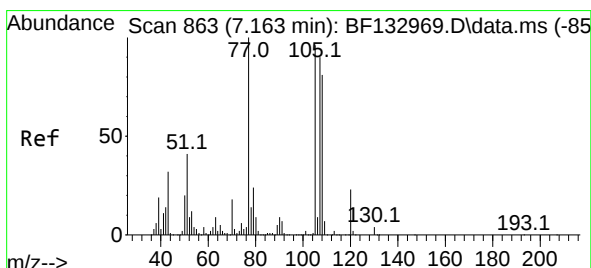
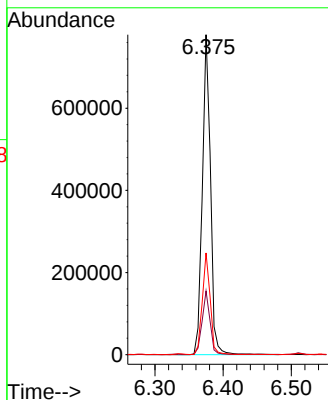
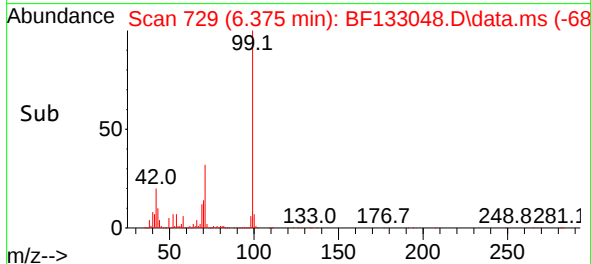
Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17



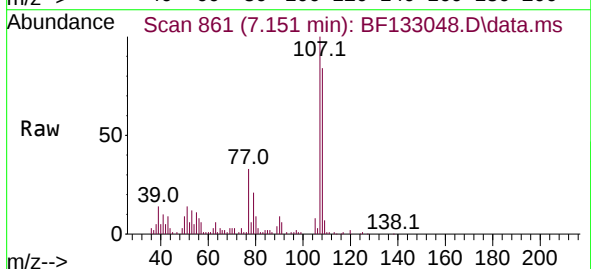
Tgt Ion: 99 Resp: 648304
Ion Ratio Lower Upper
99 100
42 19.9 16.3 24.5
71 31.8 25.6 38.4

Manual Integrations
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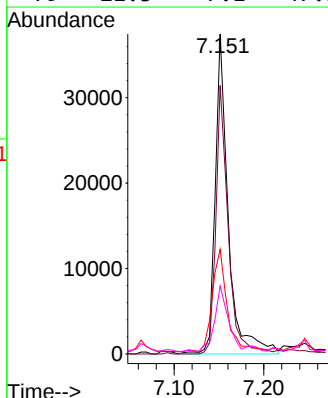
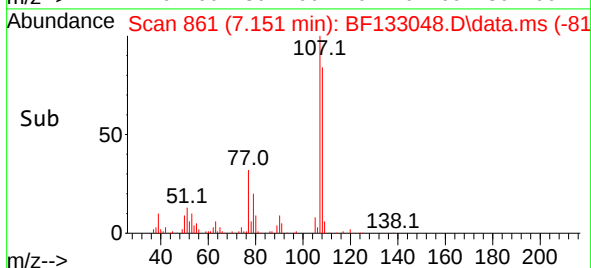
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#20
3+4-Methylphenols
Concen: 2.556 ng
RT: 7.151 min Scan# 861
Delta R.T. -0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04



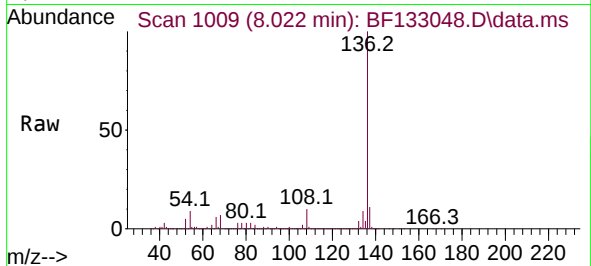
Tgt Ion: 107 Resp: 37906
Ion Ratio Lower Upper
107 100
108 83.9 70.5 110.5
77 32.7 91.7 131.7#
79 21.3 7.1 47.1





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

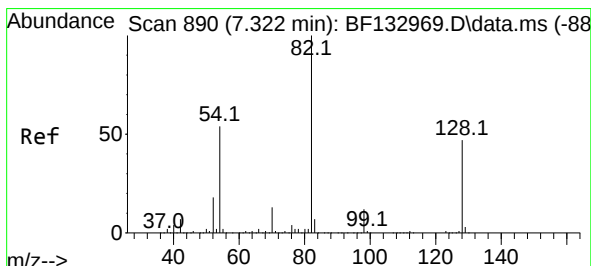
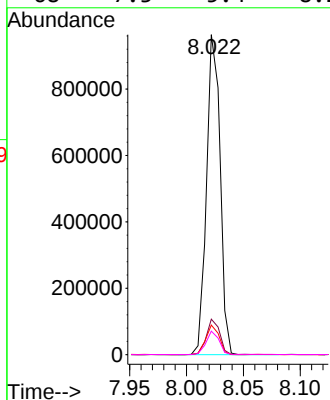
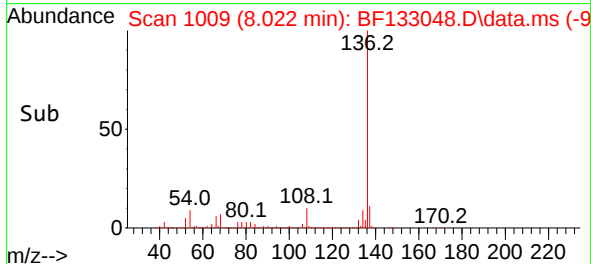
Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17



Tgt Ion:136 Resp: 80094
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 9.2 7.0 10.4
68 7.3 5.4 8.2

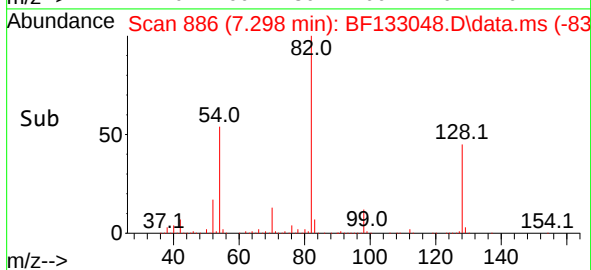
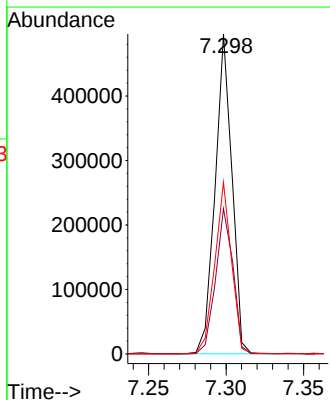
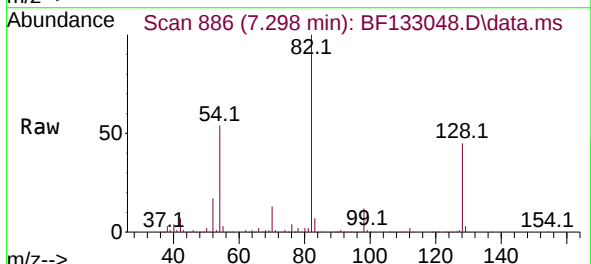
Manual Integrations
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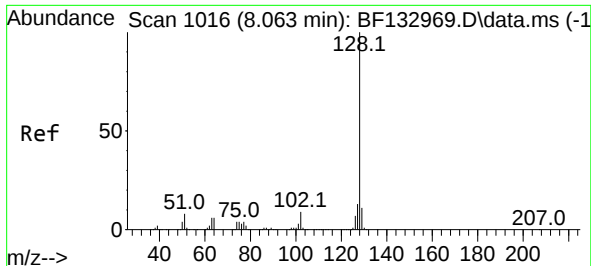
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#23
Nitrobenzene-d5
Concen: 25.200 ng
RT: 7.298 min Scan# 886
Delta R.T. -0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

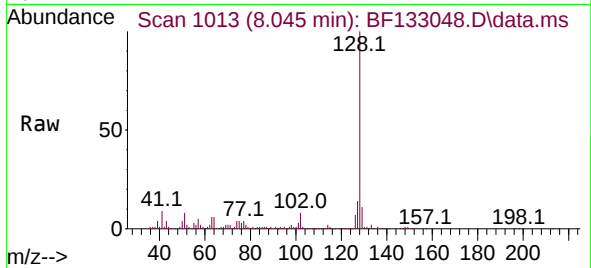
Tgt Ion: 82 Resp: 373935
Ion Ratio Lower Upper
82 100
128 45.4 37.7 56.5
54 53.6 43.0 64.4





#31
Naphthalene
Concen: 2.179 ng
RT: 8.045 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

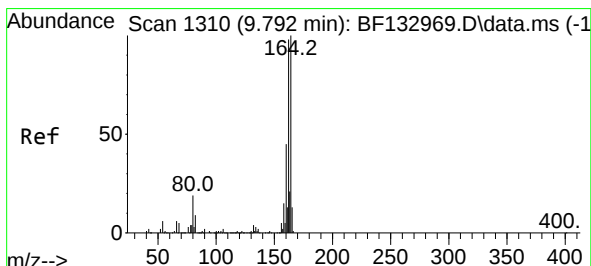
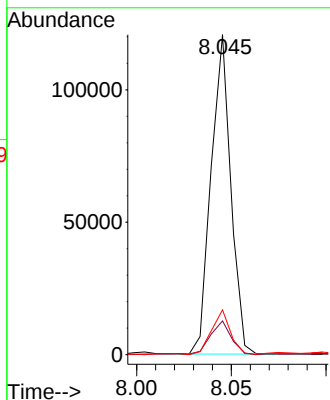
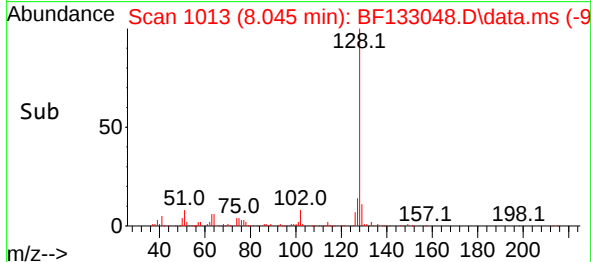
Instrument :
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ClientSampleId :
SPB-5WC-23-04-17



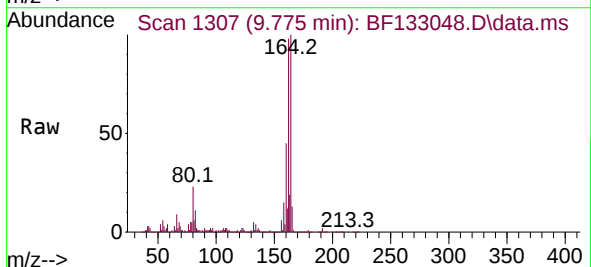
Tgt Ion:128 Resp: 8725
Ion Ratio Lower Upper
128 100
129 10.5 8.8 13.2
127 14.0 10.7 16.1

Manual Integrations
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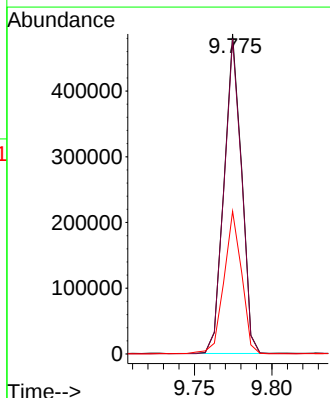
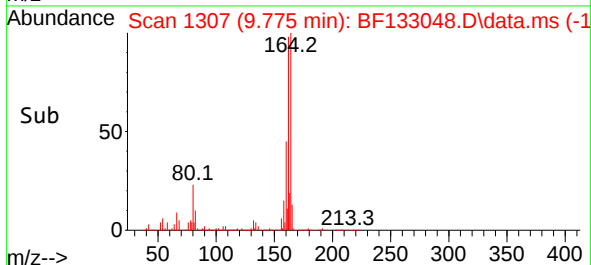
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

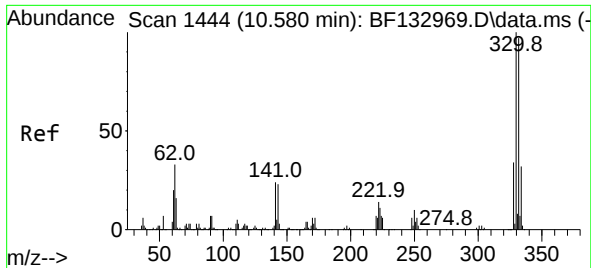


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04



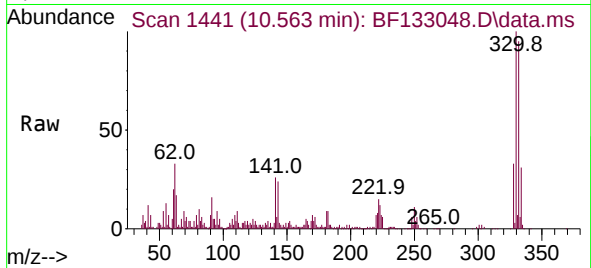
Tgt Ion:164 Resp: 379129
Ion Ratio Lower Upper
164 100
162 98.4 78.7 118.1
160 44.6 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 32.267 ng
RT: 10.563 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

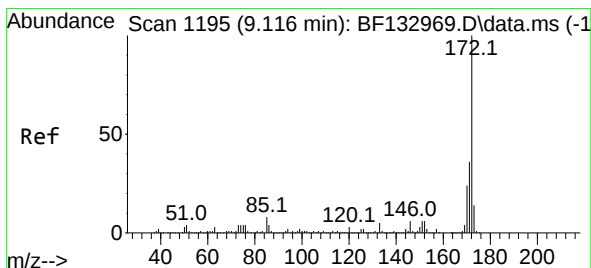
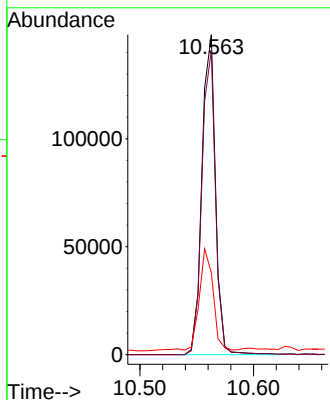
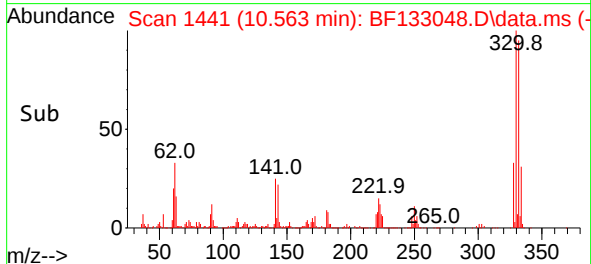
Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17



Tgt Ion: 330 Resp: 123030
Ion Ratio Lower Upper
330 100
332 95.3 77.1 115.7
141 33.3 25.8 38.8

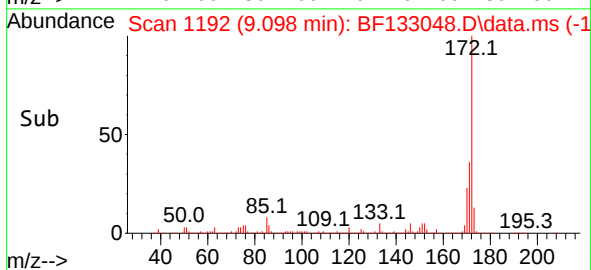
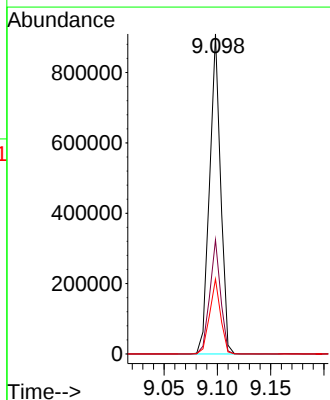
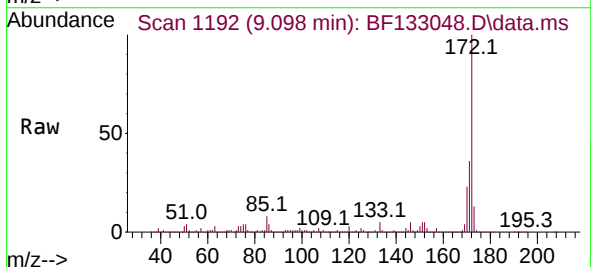
Manual Integrations
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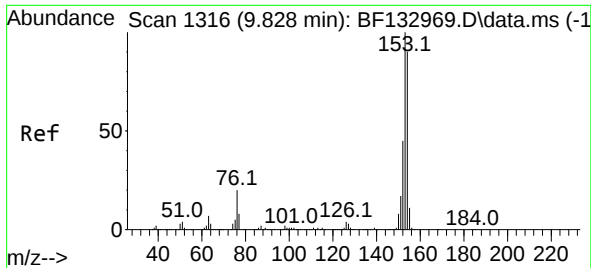
Reviewed By : Christian Giraldo 04/26/2023
Supervised By : Jagrut Upadhyay 04/26/2023



#45
2-Fluorobiphenyl
Concen: 29.029 ng
RT: 9.098 min Scan# 1192
Delta R.T. -0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

Tgt Ion: 172 Resp: 657840
Ion Ratio Lower Upper
172 100
171 35.6 28.8 43.2
170 23.4 19.4 29.2





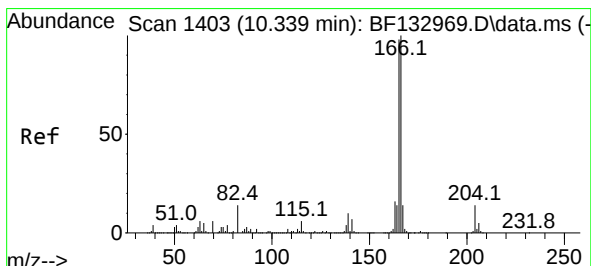
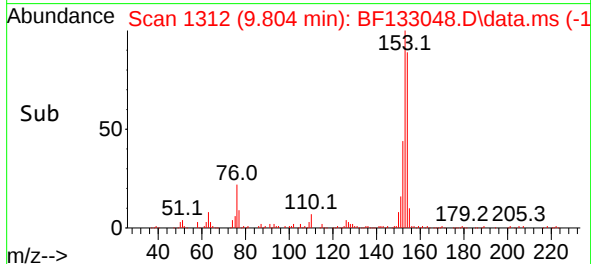
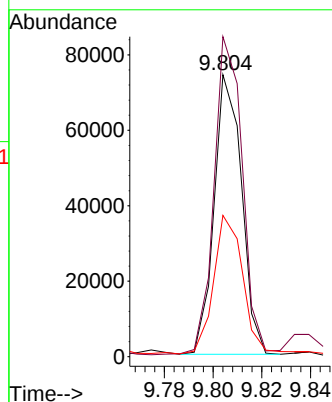
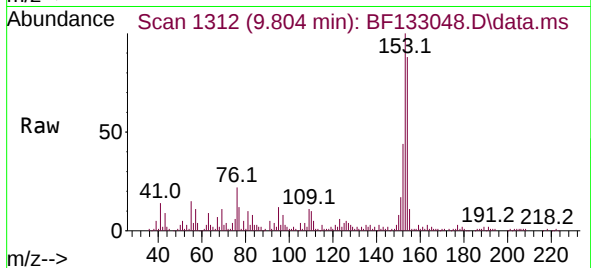
#52
Acenaphthene
Concen: 2.464 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17

Tgt Ion:154 Resp: 58034
Ion Ratio Lower Upper
154 100
153 113.5 89.0 133.6
152 50.1 40.4 60.6

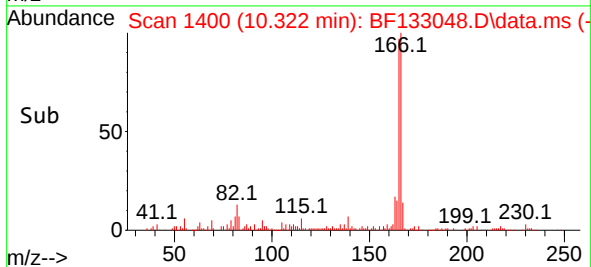
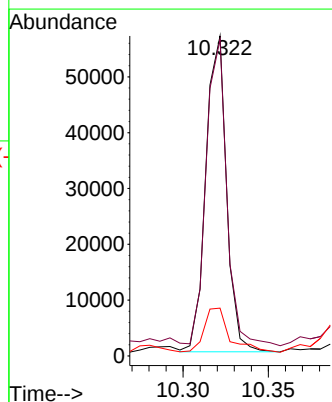
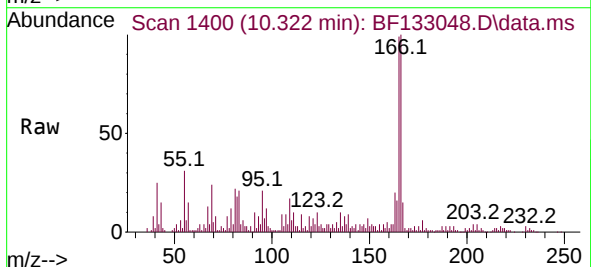
Manual Integrations
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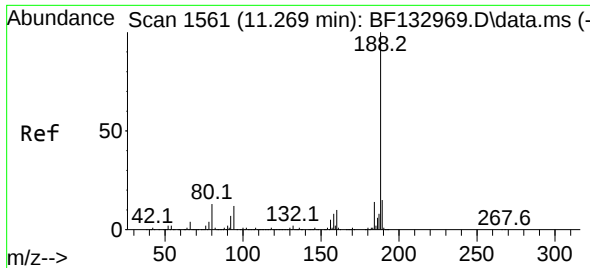
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#58
Fluorene
Concen: 2.041 ng
RT: 10.322 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

Tgt Ion:166 Resp: 48025
Ion Ratio Lower Upper
166 100
165 98.9 78.6 117.8
167 15.0 11.0 16.4





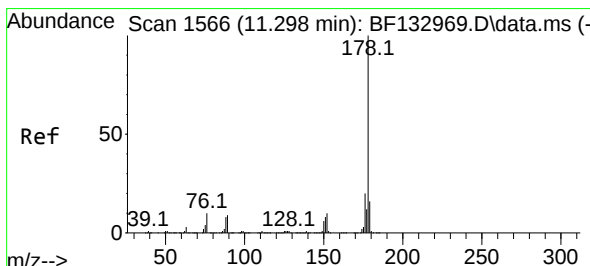
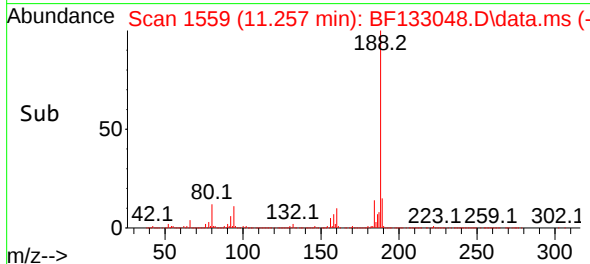
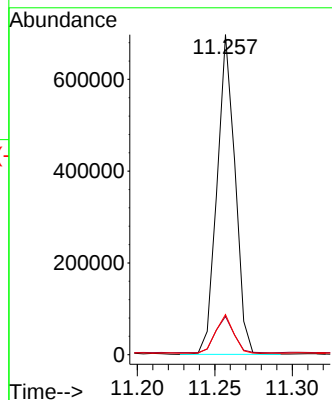
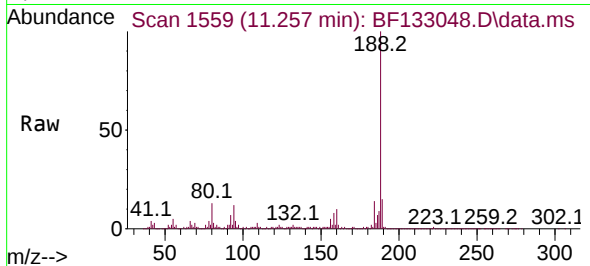
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.257 min Scan# 1559
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17

Tgt Ion:188 Resp: 563288
Ion Ratio Lower Upper
188 100
94 11.9 9.7 14.5
80 12.5 10.4 15.6

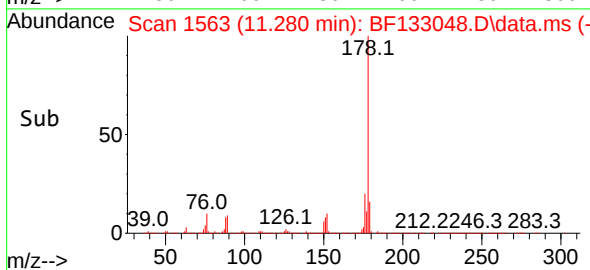
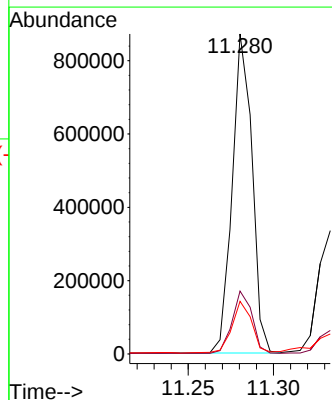
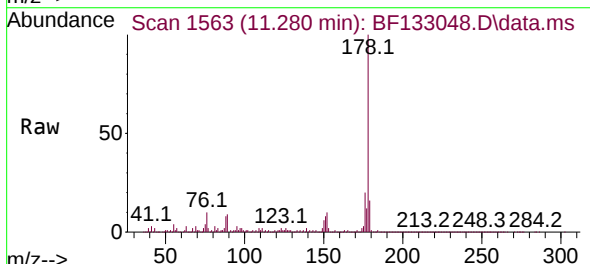
Manual Integrations
APPROVED

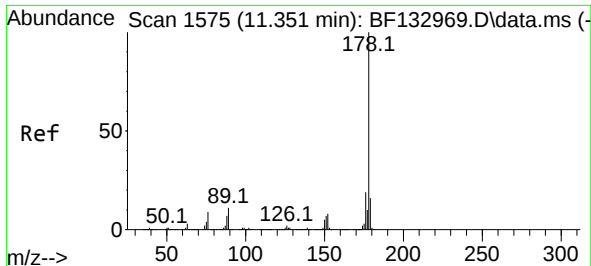
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#71
Phenanthrene
Concen: 23.248 ng
RT: 11.280 min Scan# 1563
Delta R.T. -0.006 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

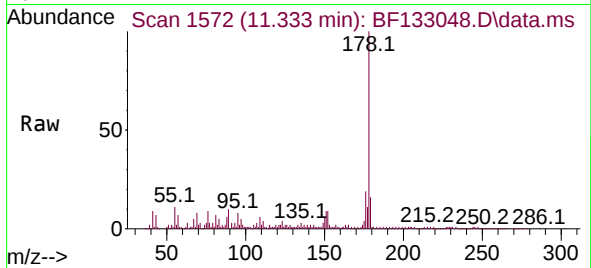
Tgt Ion:178 Resp: 703835
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 16.5 12.5 18.7





#72
 Anthracene
 Concen: 8.764 ng
 RT: 11.333 min Scan# 1575
 Delta R.T. -0.006 min
 Lab File: BF133048.D
 Acq: 26 Apr 2023 02:04

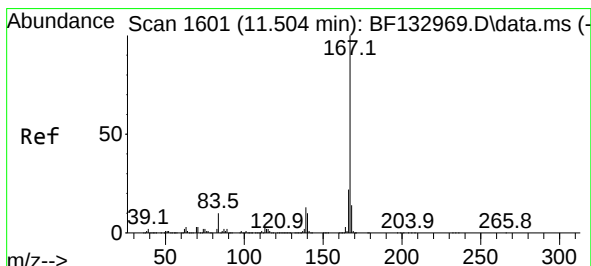
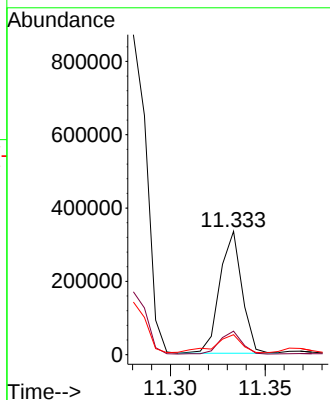
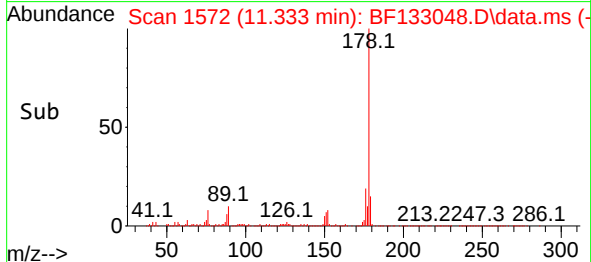
Instrument :
 BNA_F
 ClientSampleId :
 SPB-5WC-23-04-17



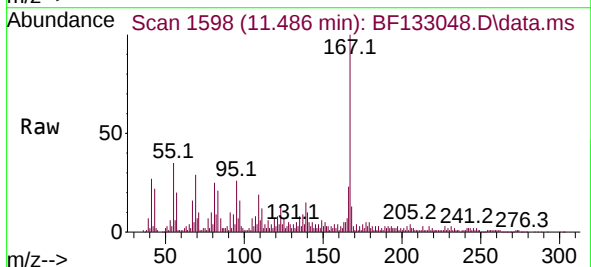
Tgt Ion:178 Resp: 271532
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.0
 179 16.2 12.4 18.6

Manual Integrations
 APPROVED

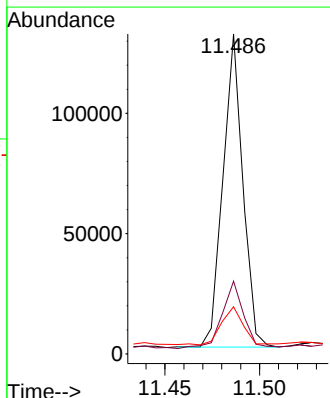
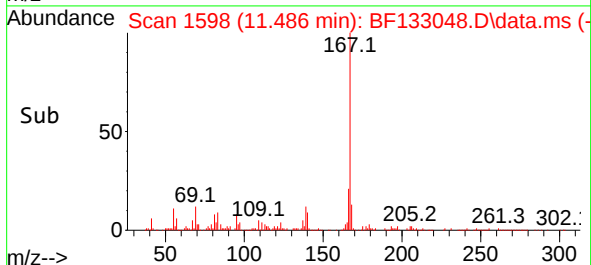
Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

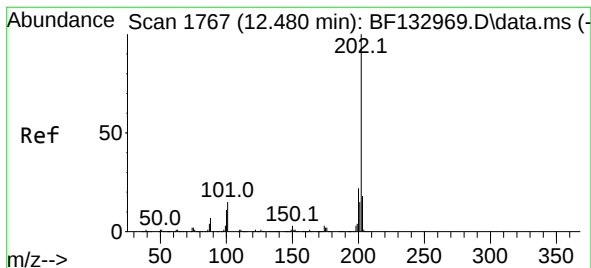


#73
 Carbazole
 Concen: 3.437 ng
 RT: 11.486 min Scan# 1598
 Delta R.T. -0.006 min
 Lab File: BF133048.D
 Acq: 26 Apr 2023 02:04



Tgt Ion:167 Resp: 94823
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.4 26.0
 139 14.8 10.6 16.0





#75

Fluoranthene

Concen: 35.344 ng

RT: 12.474 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

SPB-5WC-23-04-17

Tgt Ion:202 Resp: 107390

Ion Ratio Lower Upper

202 100

101 12.9 0.0 35.3

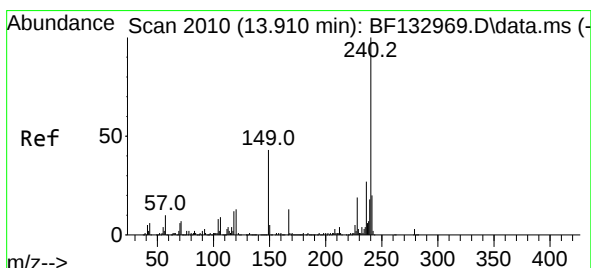
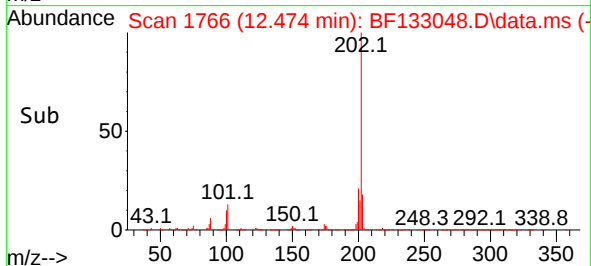
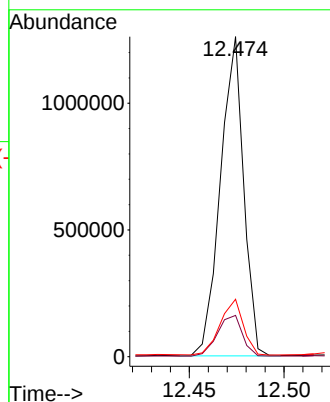
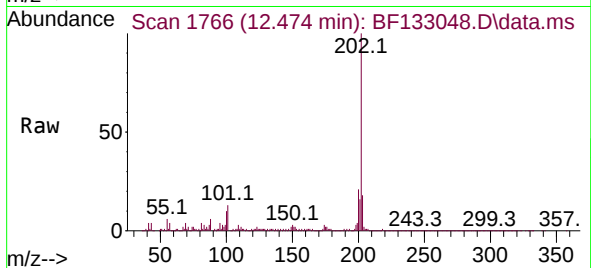
203 17.9 0.0 38.1

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.904 min Scan# 2009

Delta R.T. 0.006 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

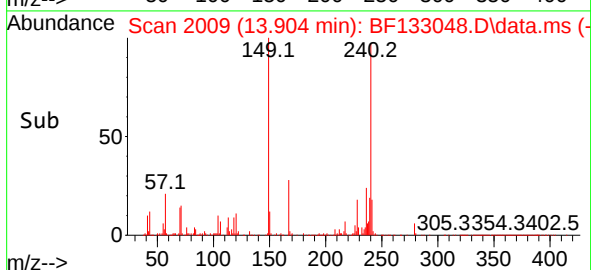
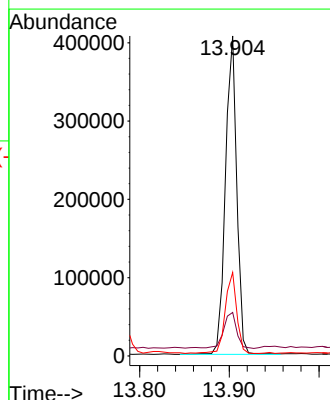
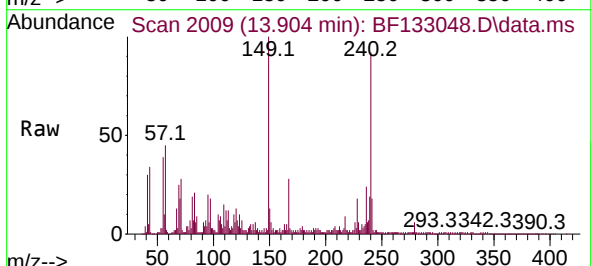
Tgt Ion:240 Resp: 356835

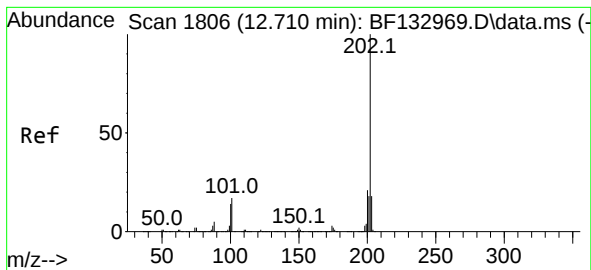
Ion Ratio Lower Upper

240 100

120 13.6 10.5 15.7

236 26.1 21.5 32.3





#78

Pyrene

Concen: 33.479 ng

RT: 12.704 min Scan# 1805

Delta R.T. 0.006 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

SPB-5WC-23-04-17

Tgt Ion:202 Resp: 102408

Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

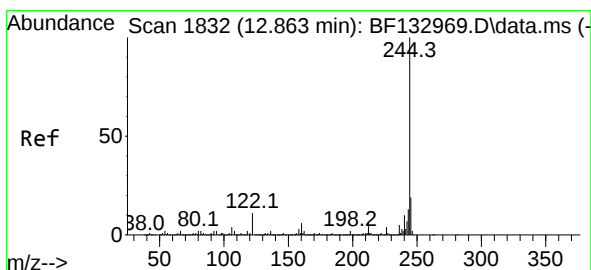
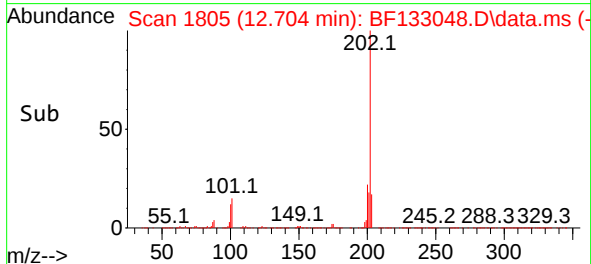
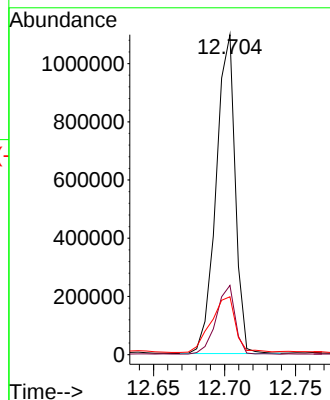
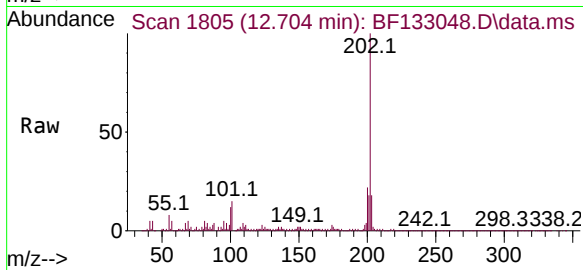
203 18.1 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#79

Terphenyl-d14

Concen: 24.105 ng

RT: 12.845 min Scan# 1829

Delta R.T. -0.006 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

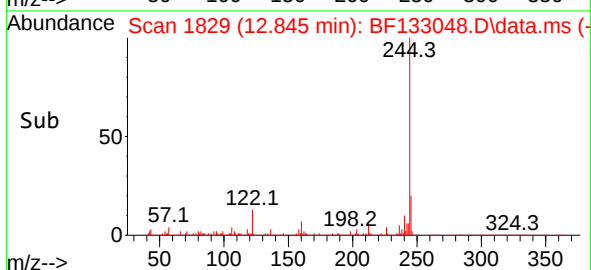
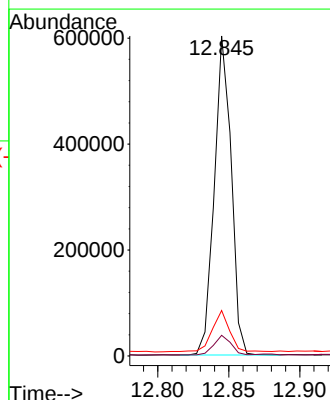
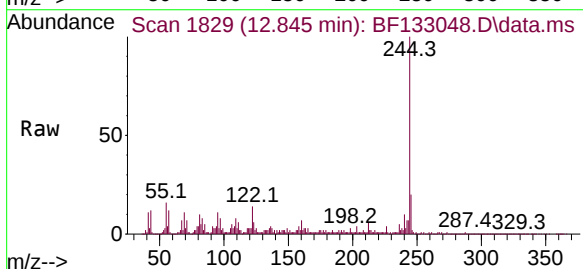
Tgt Ion:244 Resp: 498728

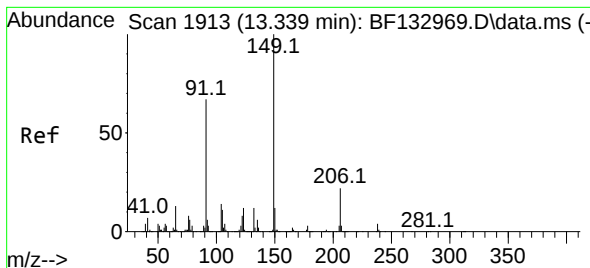
Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

122 14.2 8.6 13.0#





#80

Butylbenzylphthalate

Concen: 3.814 ng

RT: 13.327 min Scan# 1913

Delta R.T. 0.000 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

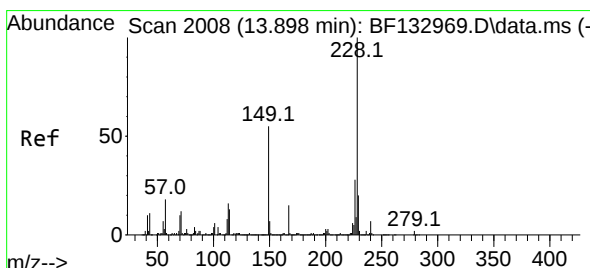
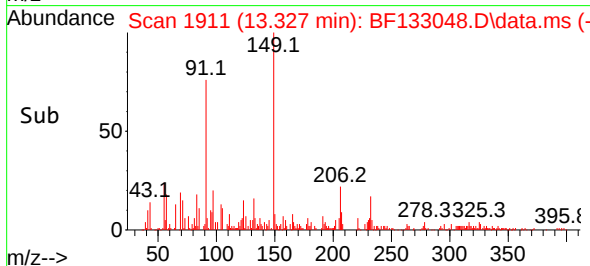
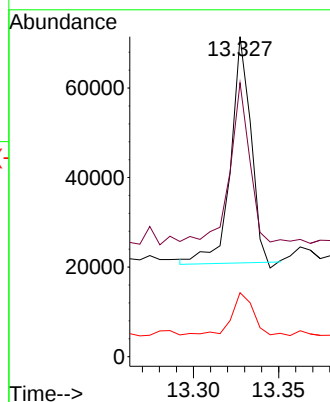
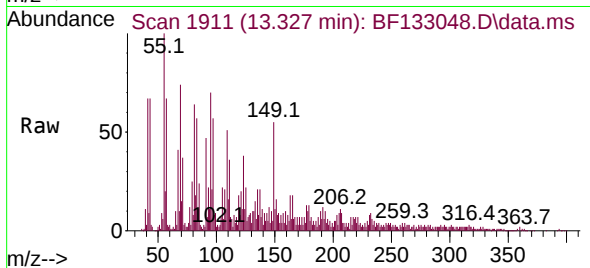
SPB-5WC-23-04-17

Tgt Ion:149 Resp: 4131
 Ion Ratio Lower Upper
 149 100
 91 85.6 53.8 80.6
 206 20.0 17.5 26.3

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023



#81

Benzo(a)anthracene

Concen: 19.434 ng

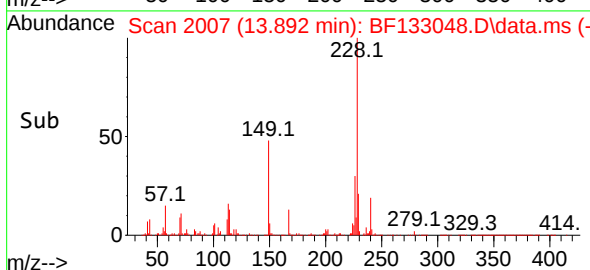
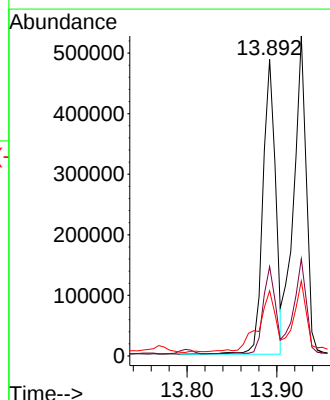
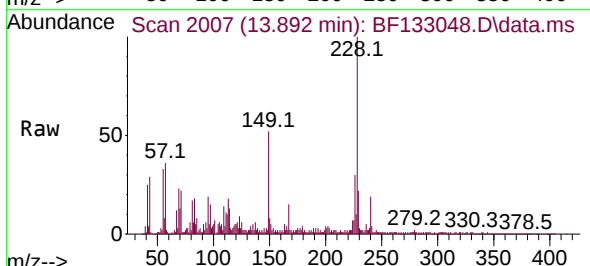
RT: 13.892 min Scan# 2007

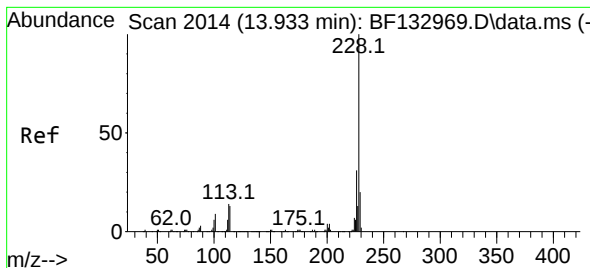
Delta R.T. 0.006 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Tgt Ion:228 Resp: 476880
 Ion Ratio Lower Upper
 228 100
 226 30.1 22.2 33.4
 229 22.0 16.0 24.0





#83

Chrysene

Concen: 21.133 ng m

RT: 13.927 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

SPB-5WC-23-04-17

Tgt Ion:228 Resp: 51844

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

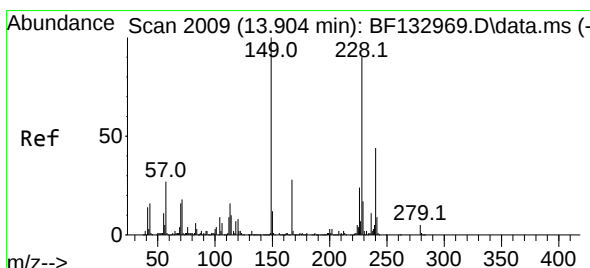
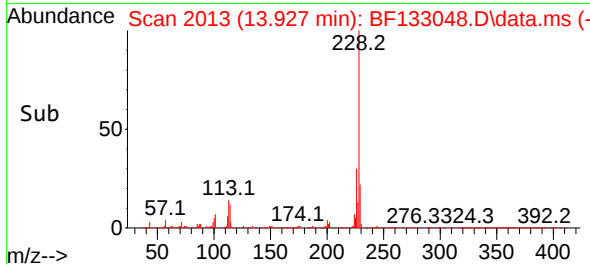
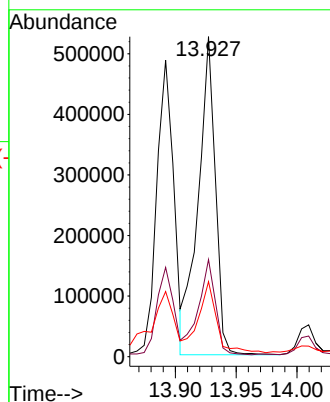
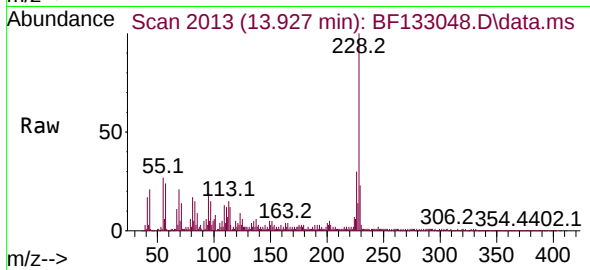
229 23.5 16.1 24.1

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 34.417 ng

RT: 13.898 min Scan# 2008

Delta R.T. 0.006 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

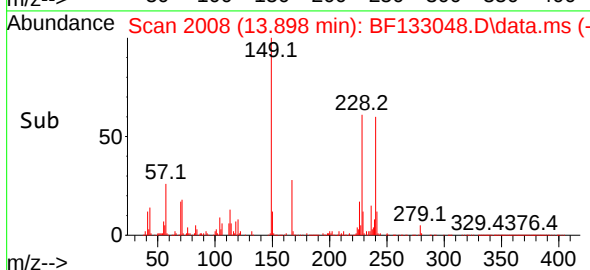
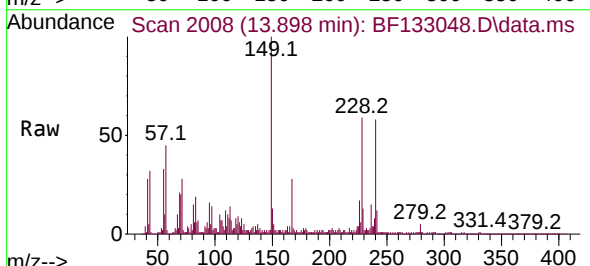
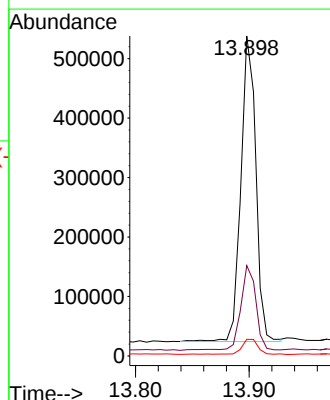
Tgt Ion:149 Resp: 467879

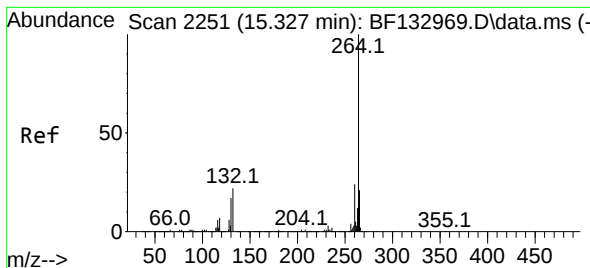
Ion Ratio Lower Upper

149 100

167 28.2 22.5 33.7

279 5.2 4.2 6.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.339 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

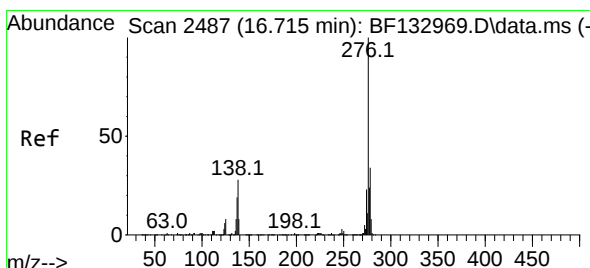
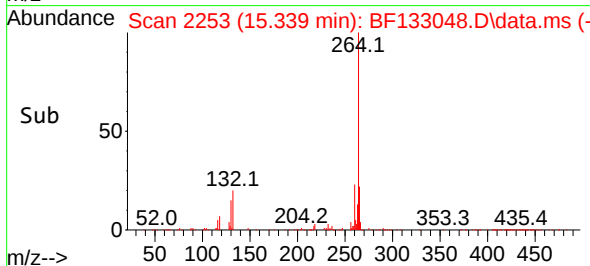
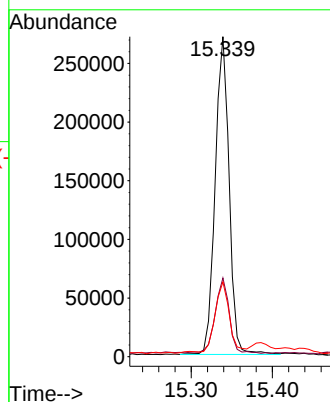
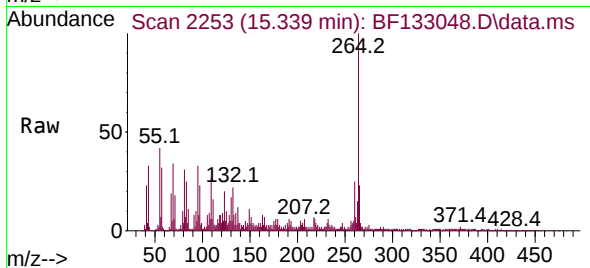
SPB-5WC-23-04-17

Tgt Ion:	264	Resp:	323298
Ion Ratio	Lower	Upper	
264	100		
260	24.6	18.8	28.2
265	23.3	17.0	25.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.311 ng

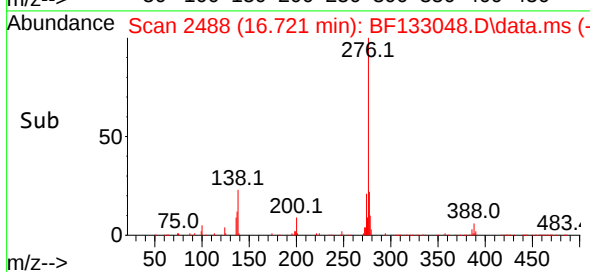
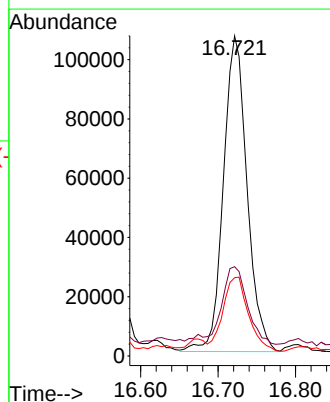
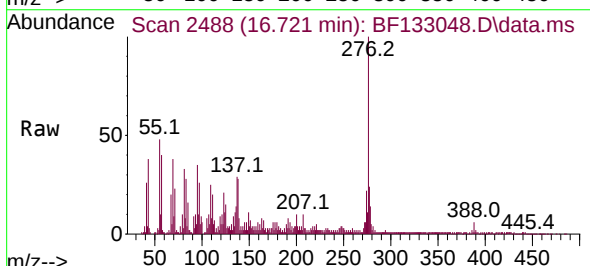
RT: 16.721 min Scan# 2488

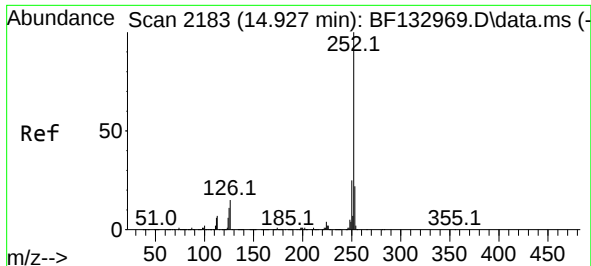
Delta R.T. 0.018 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

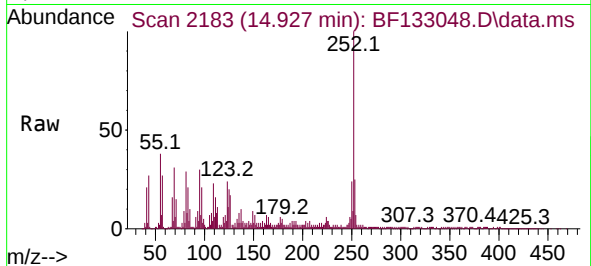
Tgt Ion:	276	Resp:	226390
Ion Ratio	Lower	Upper	
276	100		
138	27.1	25.5	38.3
277	25.4	20.4	30.6





#88
Benzo(b)fluoranthene
Concen: 28.069 ng m
RT: 14.927 min Scan# 2183
Delta R.T. 0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

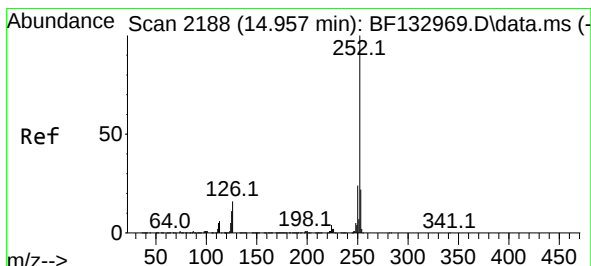
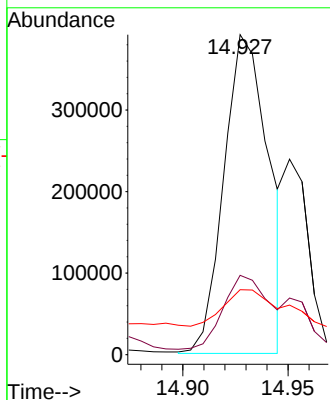
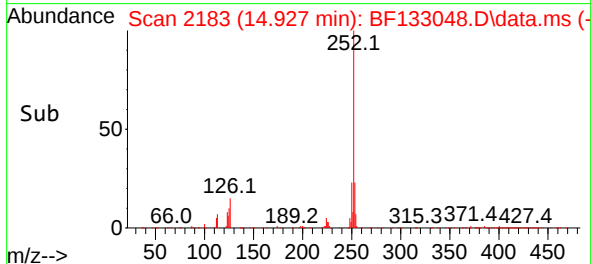
Instrument :
BNA_F
ClientSampleId :
SPB-5WC-23-04-17



Tgt Ion:252 Resp: 57731
Ion Ratio Lower Upper
252 100
253 24.8 17.6 26.4
125 20.3 8.9 13.3

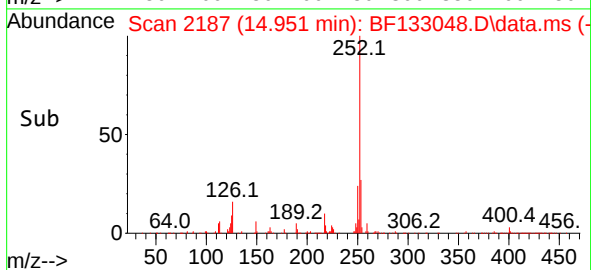
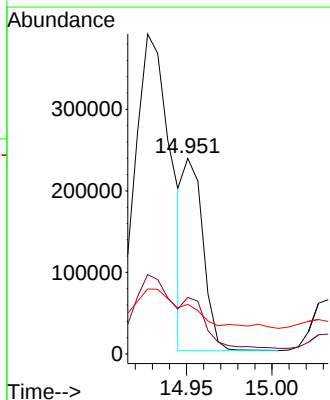
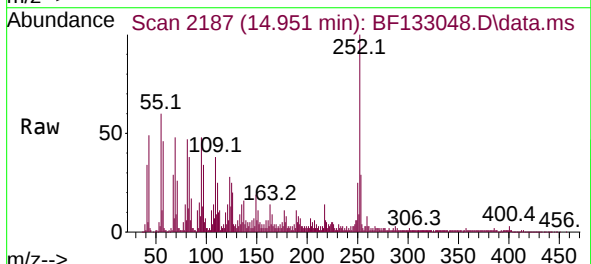
Manual Integrations
APPROVED

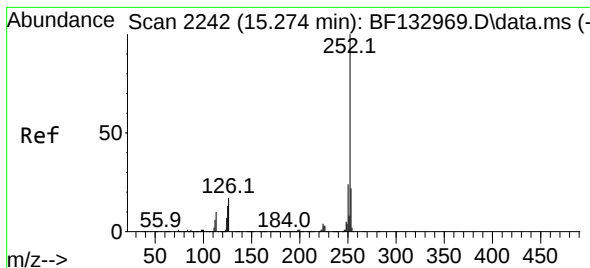
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#89
Benzo(k)fluoranthene
Concen: 9.167 ng m
RT: 14.951 min Scan# 2187
Delta R.T. 0.012 min
Lab File: BF133048.D
Acq: 26 Apr 2023 02:04

Tgt Ion:252 Resp: 186910
Ion Ratio Lower Upper
252 100
253 28.9 17.7 26.5#
125 25.3 9.0 13.4#





#90

Benzo(a)pyrene

Concen: 18.840 ng

RT: 15.280 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

Instrument :

BNA_F

ClientSampleId :

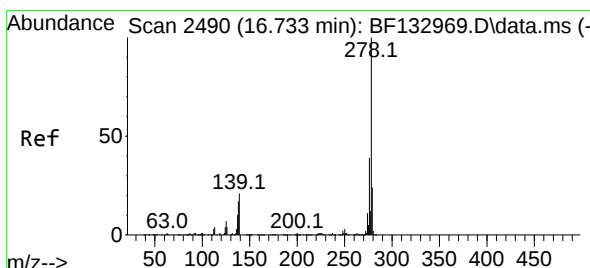
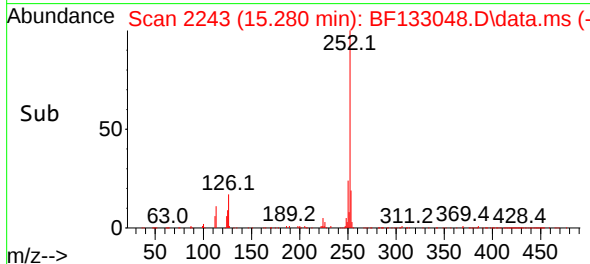
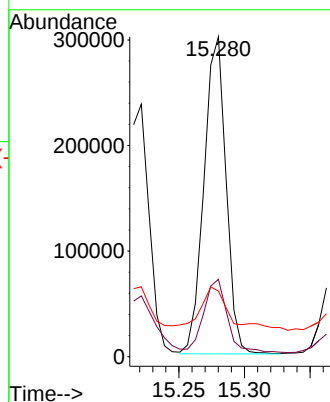
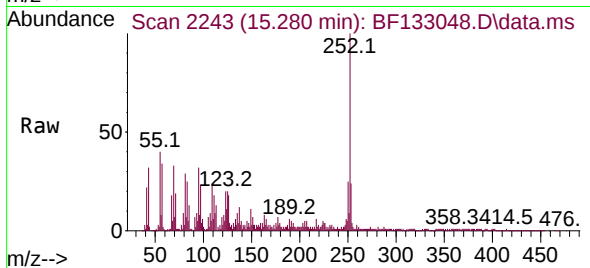
SPB-5WC-23-04-17

Tgt Ion:252 Resp: 352708
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.7 26.5
 125 20.5 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.075 ng

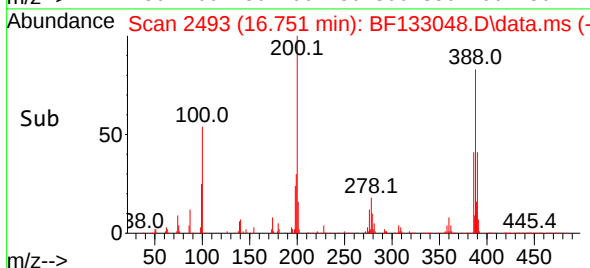
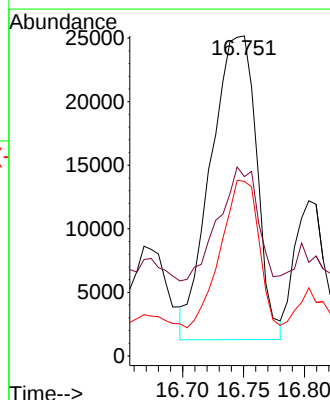
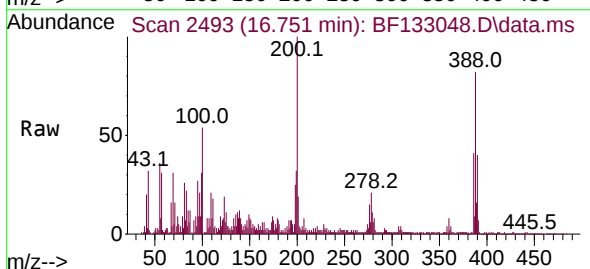
RT: 16.751 min Scan# 2493

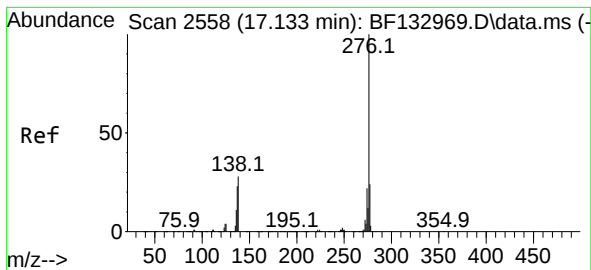
Delta R.T. 0.030 min

Lab File: BF133048.D

Acq: 26 Apr 2023 02:04

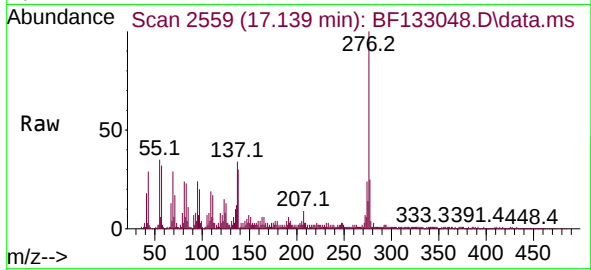
Tgt Ion:278 Resp: 62499
 Ion Ratio Lower Upper
 278 100
 139 56.1 16.6 24.8#
 279 54.6 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 14.026 ng
 RT: 17.139 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: BF133048.D
 Acq: 26 Apr 2023 02:04

Instrument :
 BNA_F
 ClientSampleId :
 SPB-5WC-23-04-17



Tgt Ion:	276	Resp:	212380
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.4	29.0
138	30.3	22.7	34.1

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

