

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF041923\
 Data File : BF132930.D
 Acq On : 20 Apr 2023 00:48
 Operator : CG\JU
 Sample : 02389-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPB-1WC-23-04-17

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/20/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

Quant Time: Apr 20 01:53:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF041723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 18 04:51:21 2023
 Response via : Initial Calibration

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

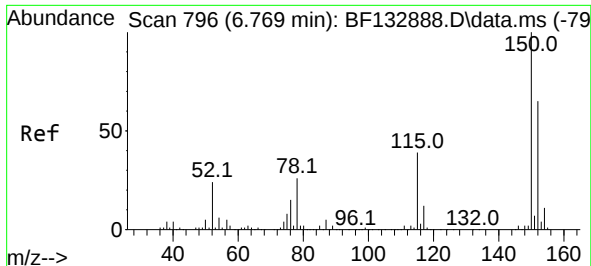
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.763	152	274469	20.000	ng	0.00
21) Naphthalene-d8	8.045	136	1095216	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	538754	20.000	ng	0.00
64) Phenanthrene-d10	11.286	188	842216	20.000	ng	0.00
76) Chrysene-d12	13.927	240	492764	20.000	ng	0.00
86) Perylene-d12	15.368	264	422509	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	1910350	108.834	ng	0.01
7) Phenol-d6	6.393	99	2455188	109.616	ng	0.00
23) Nitrobenzene-d5	7.328	82	1506634	71.706	ng	0.00
42) 2,4,6-Tribromophenol	10.586	330	549990	101.780	ng	0.00
45) 2-Fluorobiphenyl	9.128	172	2510985	71.599	ng	0.00
79) Terphenyl-d14	12.874	244	2217161	76.764	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.833	154	69541	2.141	ng	99
66) n-Nitrosodiphenylamine	10.457	169	70746	2.579	ng	99
71) Phenanthrene	11.310	178	997547	22.020	ng	99
72) Anthracene	11.357	178	250199	5.395	ng	99
73) Carbazole	11.510	167	125833	3.136	ng	99
75) Fluoranthene	12.498	202	1681531	37.326	ng	99
78) Pyrene	12.727	202	1574813	39.084	ng	99
80) Butylbenzylphthalate	13.351	149	54712	10.159	ng	# 84
81) Benzo(a)anthracene	13.916	228	831610	24.816	ng	97
83) Chrysene	13.951	228	822975	24.708	ng	97
84) Bis(2-ethylhexyl)phtha...	13.921	149	318578	24.995	ng	99
87) Indeno(1,2,3-cd)pyrene	16.768	276	361110	14.958	ng	95
88) Benzo(b)fluoranthene	14.957	252	967146m	36.748	ng	
89) Benzo(k)fluoranthene	14.980	252	280111m	10.684	ng	
90) Benzo(a)pyrene	15.310	252	567645	23.608	ng	# 90
91) Dibenzo(a,h)anthracene	16.792	278	100615	4.891	ng	# 47
92) Benzo(g,h,i)perylene	17.192	276	351984	17.871	ng	98

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

Manual Integrations

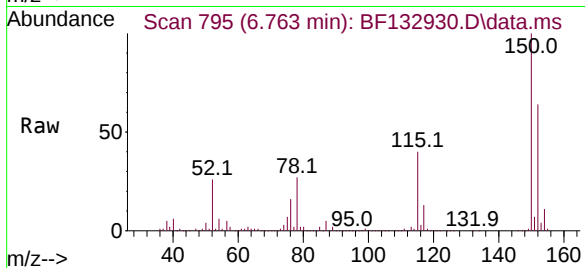
Quant Time: Apr 20 01:53:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF041723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 18 04:51:21 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 796
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

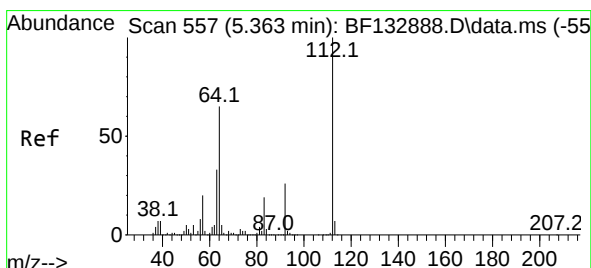
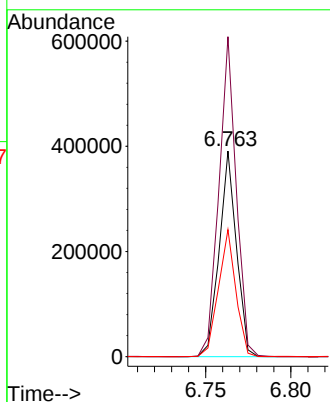
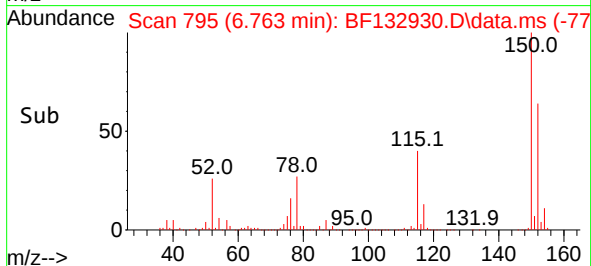
Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17



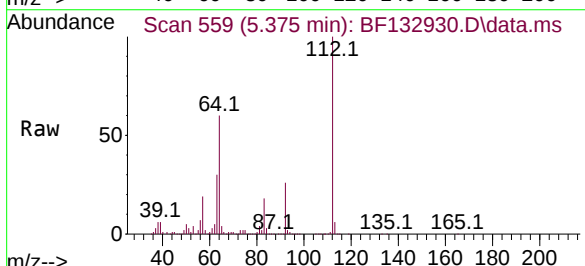
Tgt Ion:152 Resp: 274469
Ion Ratio Lower Upper
152 100
150 155.7 122.8 184.2
115 61.8 47.3 70.9

Manual Integrations
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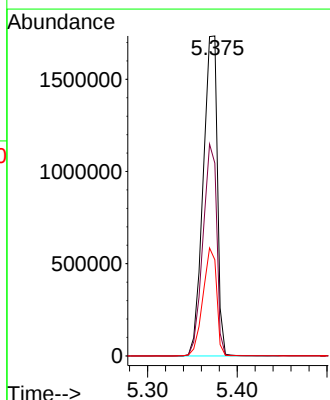
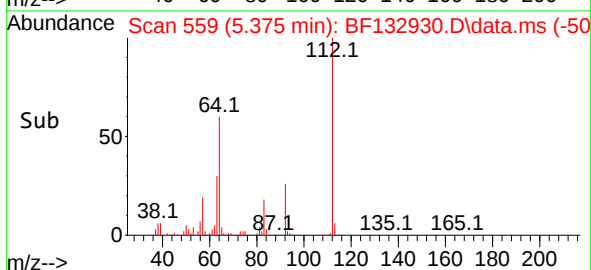
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023

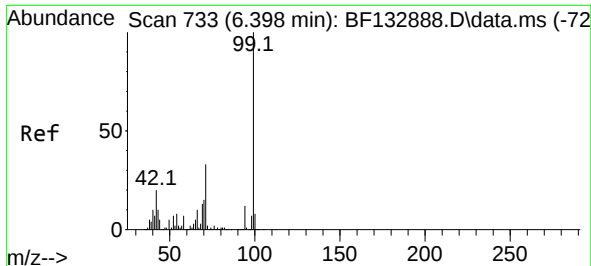


#5
2-Fluorophenol
Concen: 108.834 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.012 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48



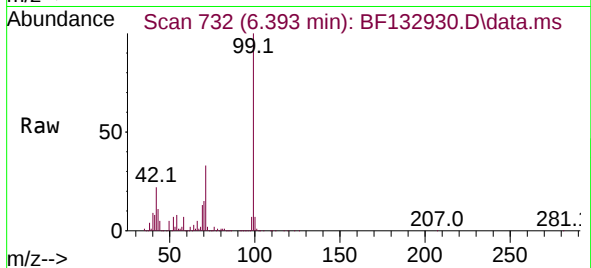
Tgt Ion:112 Resp: 1910350
Ion Ratio Lower Upper
112 100
64 60.2 51.8 77.8
63 30.0 26.3 39.5





#7
Phenol-d6
Concen: 109.616 ng
RT: 6.393 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

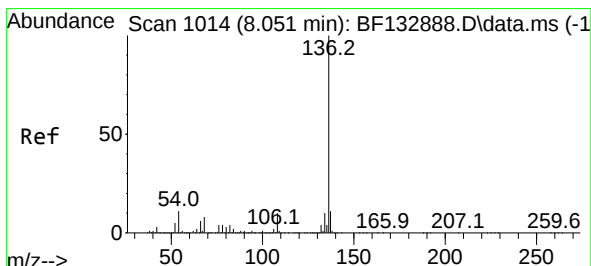
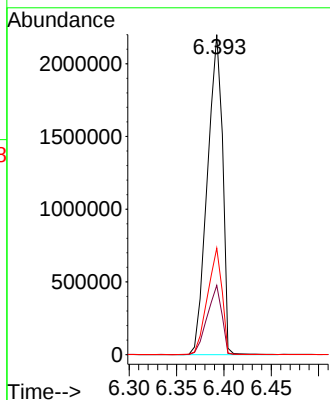
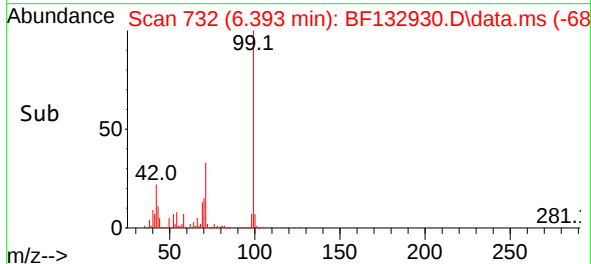
Instrument :
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ClientSampleId :
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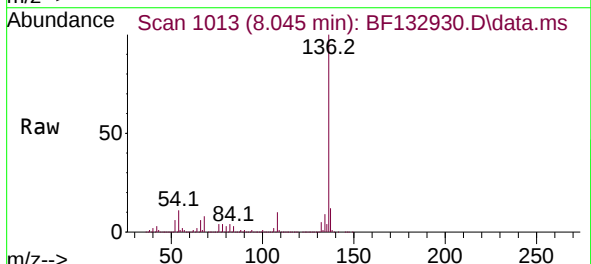
Tgt Ion: 99 Resp: 2455188
Ion Ratio Lower Upper
99 100
42 21.6 16.1 24.1
71 33.3 26.1 39.1

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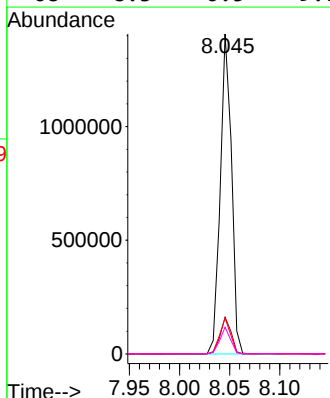
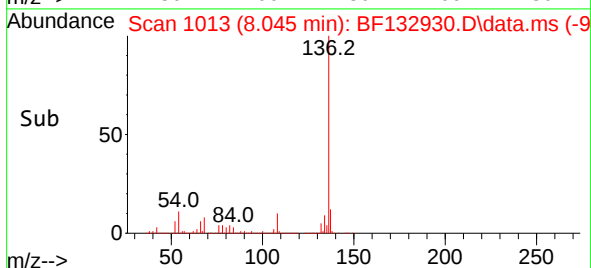
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023

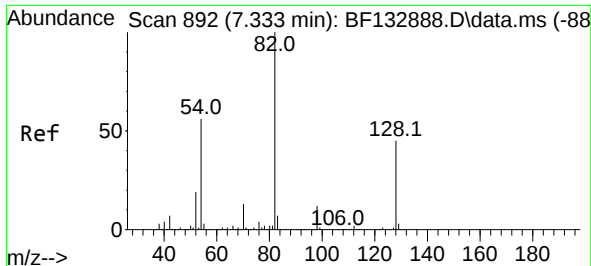


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.045 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48



Tgt Ion:136 Resp: 1095216
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.4
54 11.2 8.9 13.3
68 8.3 6.5 9.7





#23

Nitrobenzene-d5

Concen: 71.706 ng

RT: 7.328 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SPB-1WC-23-04-17

Tgt Ion: 82 Resp: 1506634

Ion Ratio Lower Upper

82 100

128 45.4 35.7 53.5

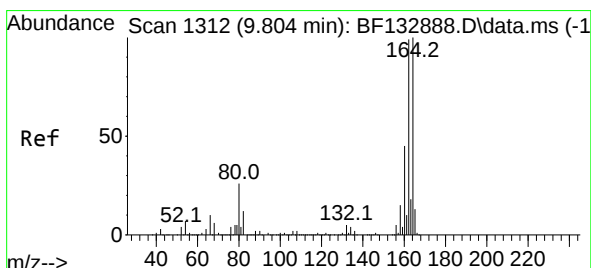
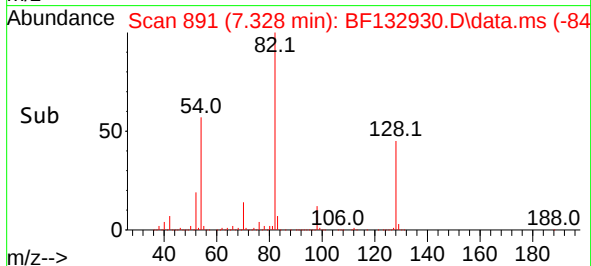
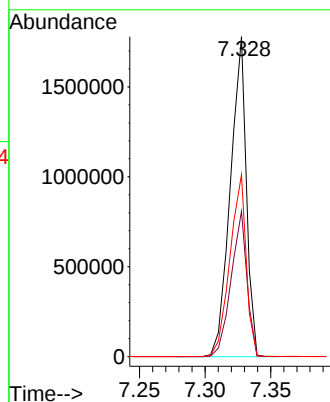
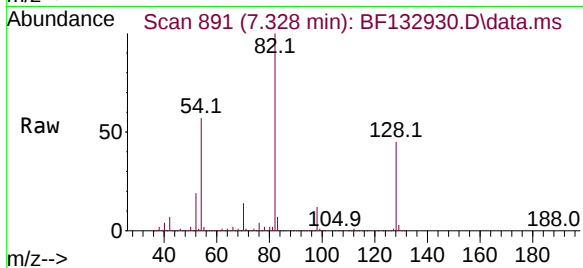
54 56.8 44.7 67.1

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.798 min Scan# 1311

Delta R.T. -0.006 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

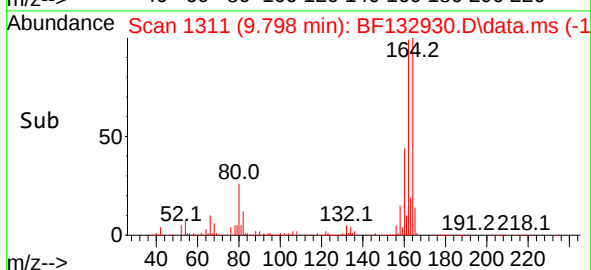
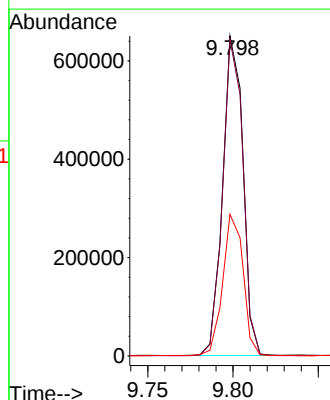
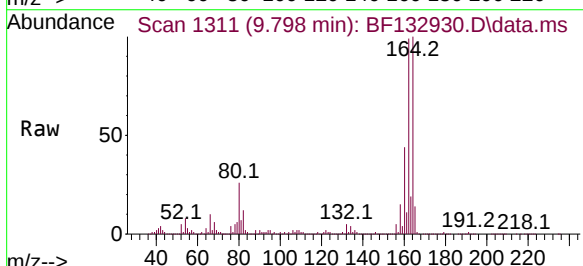
Tgt Ion:164 Resp: 538754

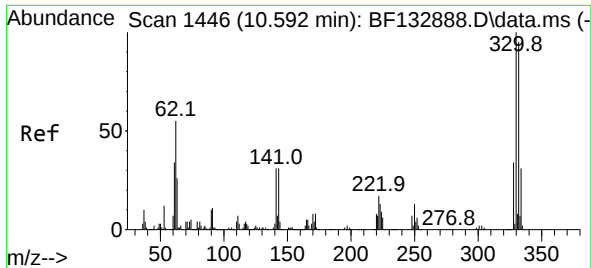
Ion Ratio Lower Upper

164 100

162 98.9 79.1 118.7

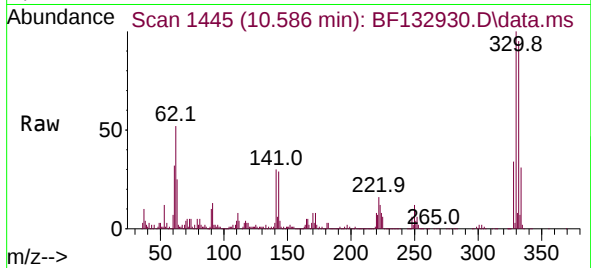
160 44.2 35.6 53.4





#42
2,4,6-Tribromophenol
Concen: 101.780 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

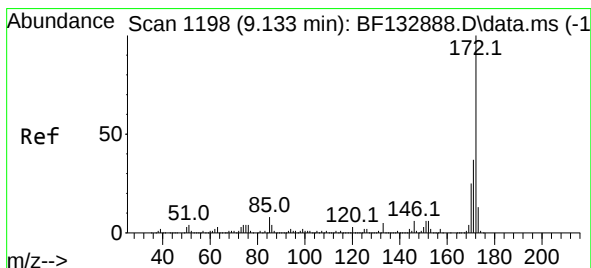
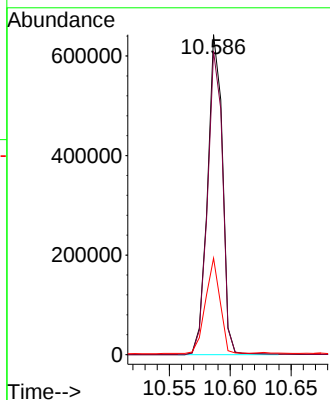
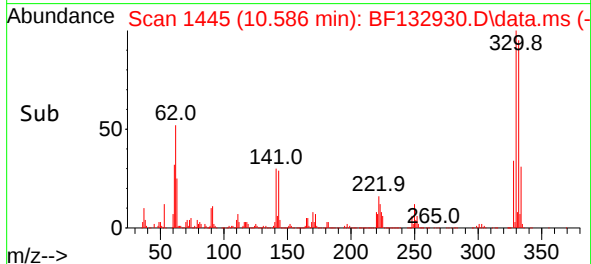
Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17



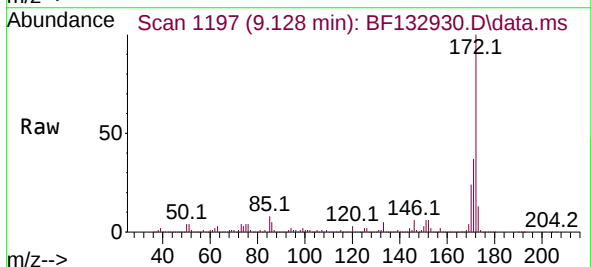
Tgt Ion: 330 Resp: 549990
Ion Ratio Lower Upper
330 100
332 96.1 76.3 114.5
141 29.3 23.9 35.9

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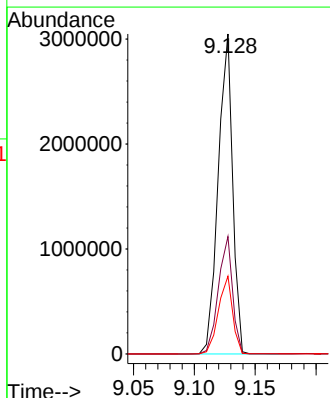
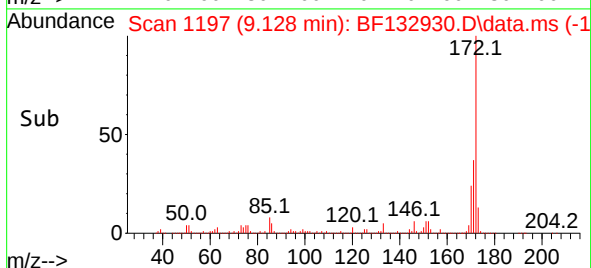
Reviewed By : Christian Giraldo 04/20/2023
Supervised By : Jagrut Upadhyay 04/24/2023

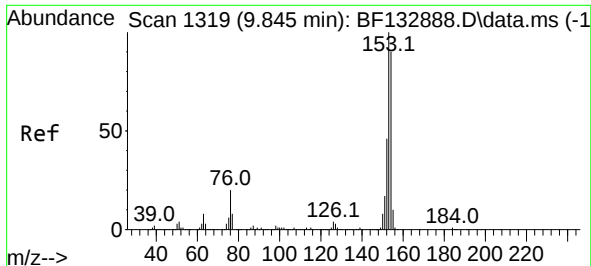


#45
2-Fluorobiphenyl
Concen: 71.599 ng
RT: 9.128 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48



Tgt Ion: 172 Resp: 2510985
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 24.3 20.1 30.1





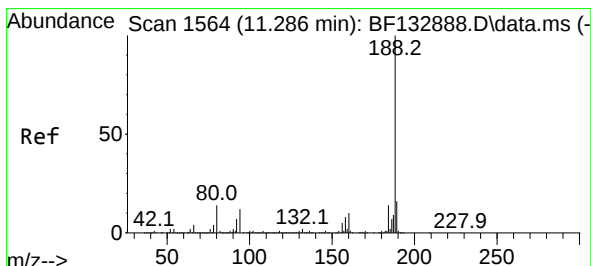
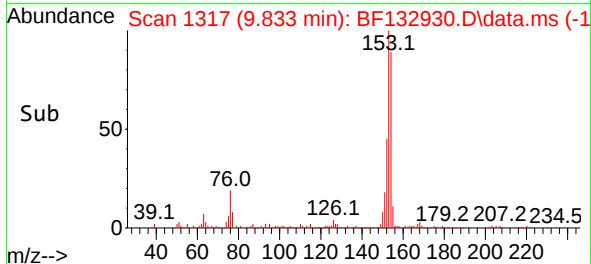
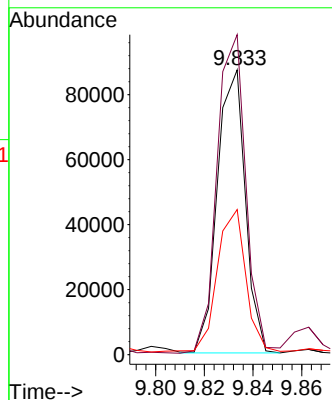
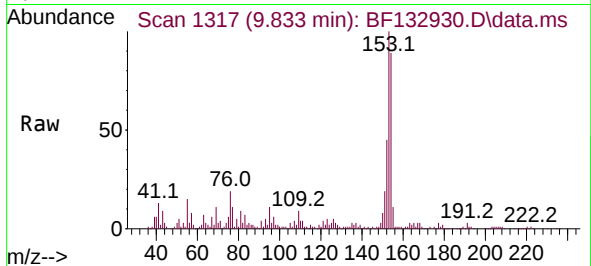
#52
Acenaphthene
Concen: 2.141 ng
RT: 9.833 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17

Tgt Ion:154 Resp: 6954
Ion Ratio Lower Upper
154 100
153 112.4 88.8 133.2
152 51.0 41.2 61.8

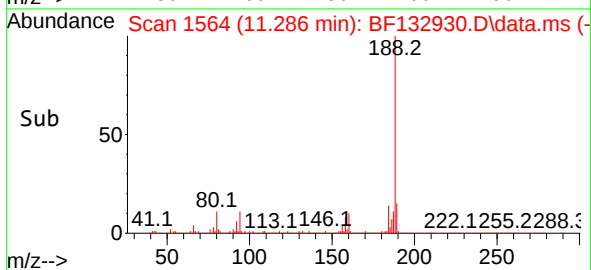
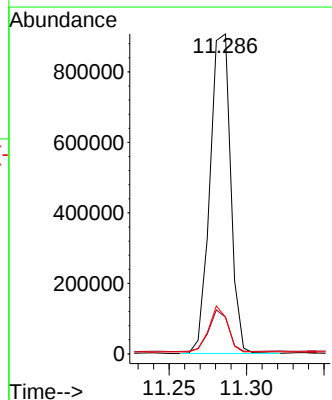
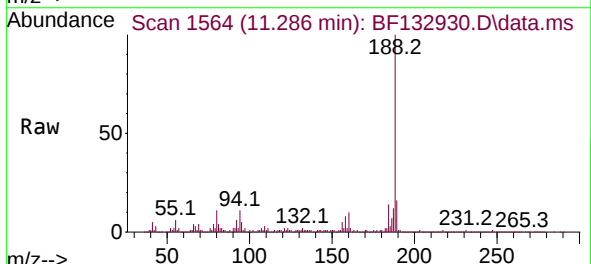
Manual Integrations
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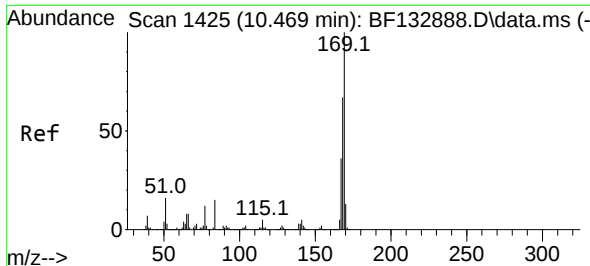
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

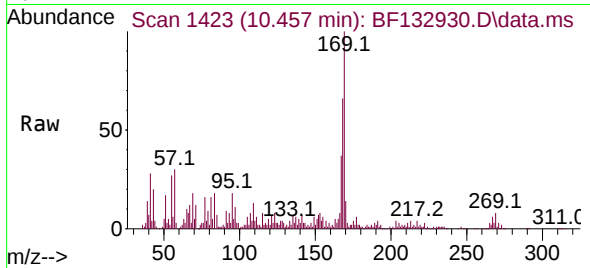
Tgt Ion:188 Resp: 842216
Ion Ratio Lower Upper
188 100
94 11.5 9.9 14.9
80 11.5 10.8 16.2





#66
n-Nitrosodiphenylamine
Concen: 2.579 ng
RT: 10.457 min Scan# 1423
Delta R.T. -0.012 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

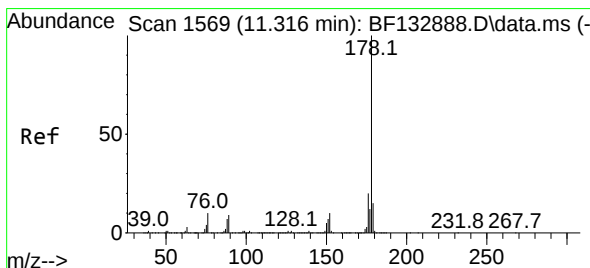
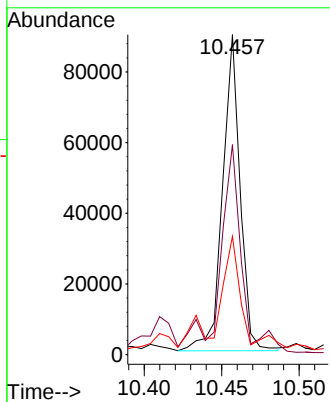
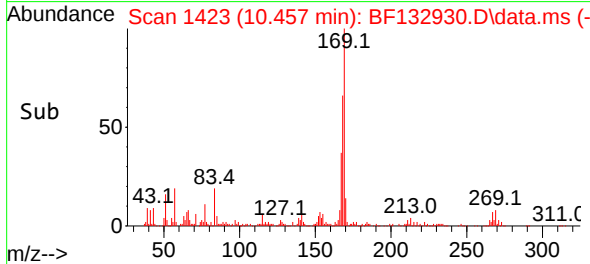
Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17



Tgt Ion:169 Resp: 70746
Ion Ratio Lower Upper
169 100
168 65.7 53.4 80.0
167 36.9 29.0 43.6

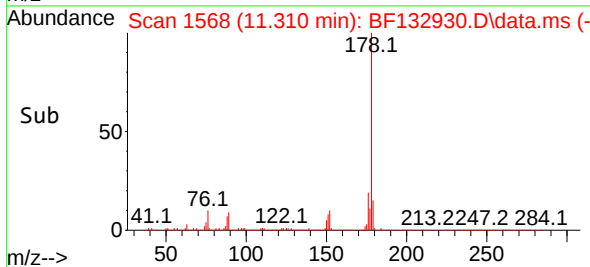
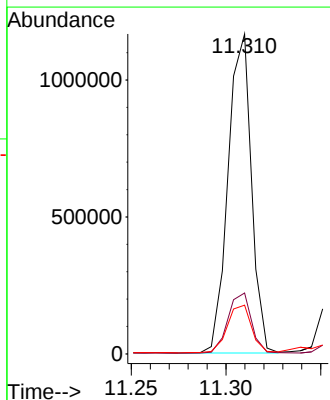
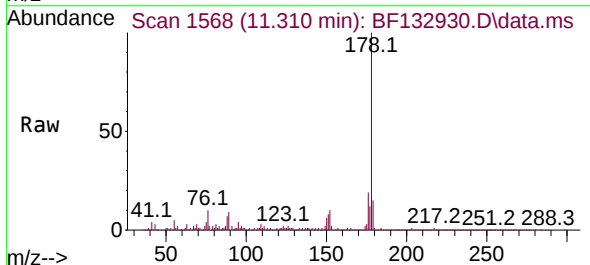
Manual Integrations
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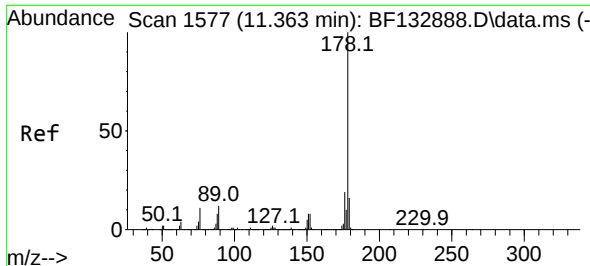
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#71
Phenanthrene
Concen: 22.020 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

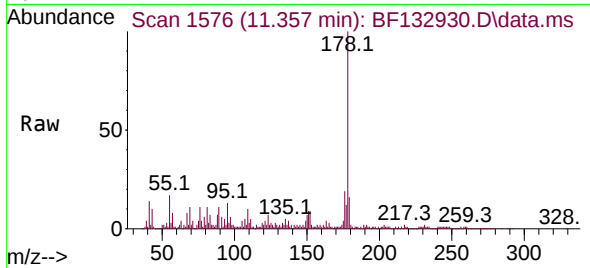
Tgt Ion:178 Resp: 997547
Ion Ratio Lower Upper
178 100
176 19.0 15.9 23.9
179 15.2 12.3 18.5





#72
 Anthracene
 Concen: 5.395 ng
 RT: 11.357 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF132930.D
 Acq: 20 Apr 2023 00:48

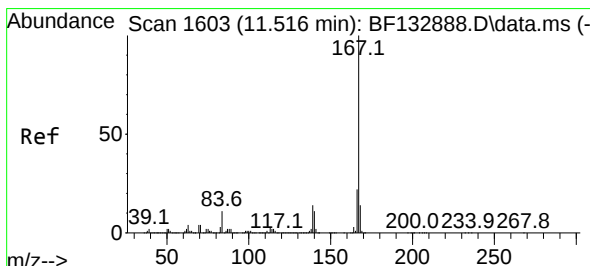
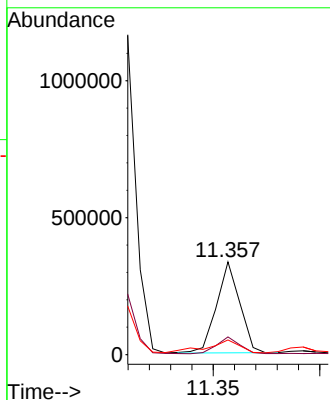
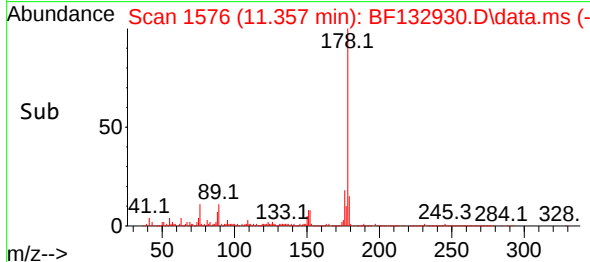
Instrument :
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 SPB-1WC-23-04-17



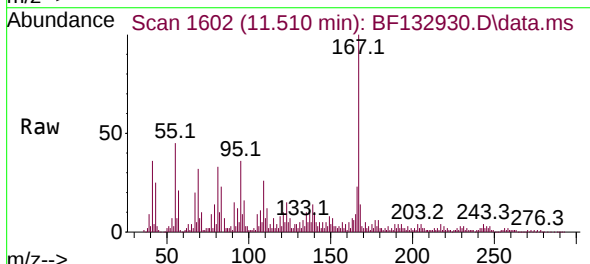
Tgt Ion:178 Resp: 250199
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.5 23.3
 179 15.8 12.8 19.2

Manual Integrations
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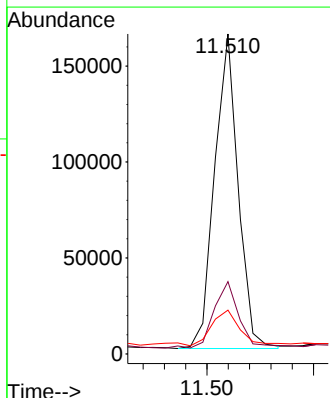
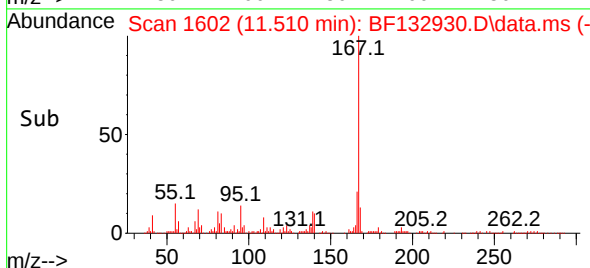
Reviewed By :Christian Giraldo 04/20/2023
 Supervised By :Jagrut Upadhyay 04/24/2023

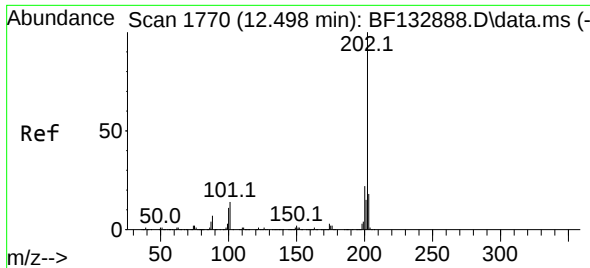


#73
 Carbazole
 Concen: 3.136 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. -0.006 min
 Lab File: BF132930.D
 Acq: 20 Apr 2023 00:48



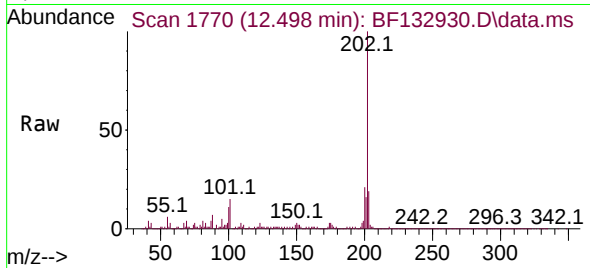
Tgt Ion:167 Resp: 125833
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.4 26.2
 139 13.7 11.0 16.4





#75
Fluoranthene
Concen: 37.326 ng
RT: 12.498 min Scan# 1770
Delta R.T. 0.000 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

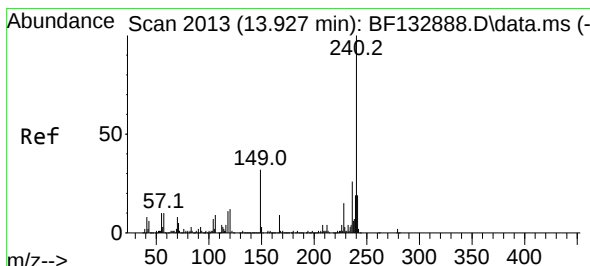
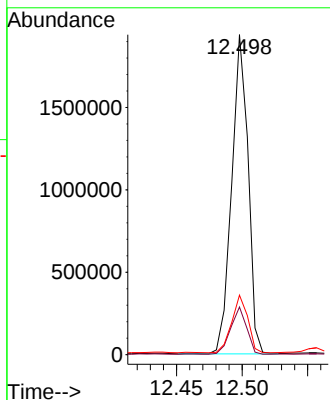
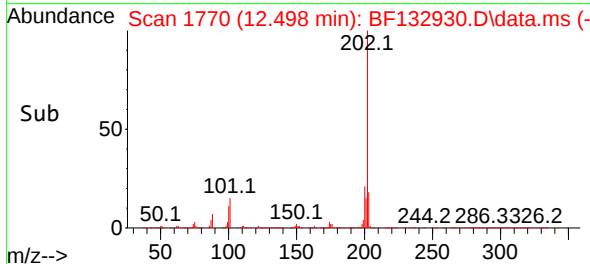
Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17



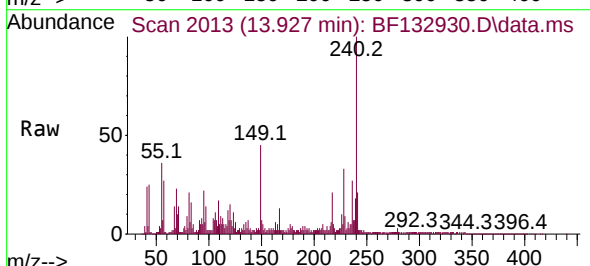
Tgt Ion:202 Resp: 1681531
Ion Ratio Lower Upper
202 100
101 14.9 0.0 34.5
203 18.6 0.0 38.2

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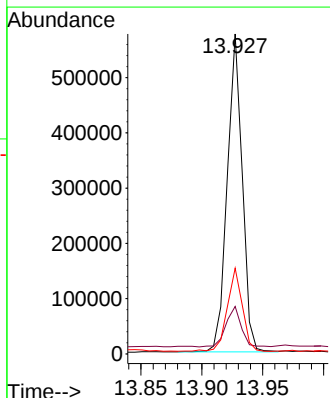
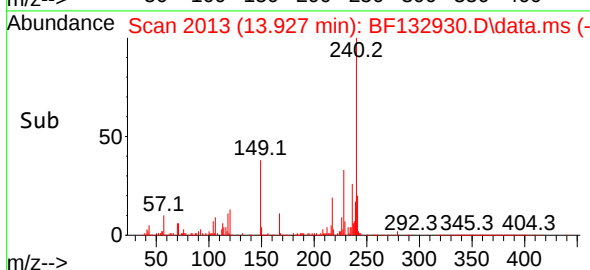
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023

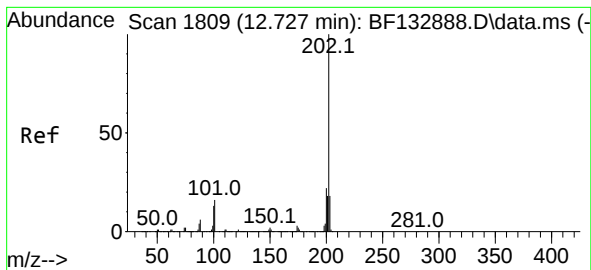


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.927 min Scan# 2013
Delta R.T. 0.000 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48



Tgt Ion:240 Resp: 492764
Ion Ratio Lower Upper
240 100
120 14.8 10.0 15.0
236 26.8 20.8 31.2





#78

Pyrene

Concen: 39.084 ng

RT: 12.727 min Scan# 1809

Delta R.T. 0.000 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SPB-1WC-23-04-17

Tgt Ion:202 Resp: 1574813

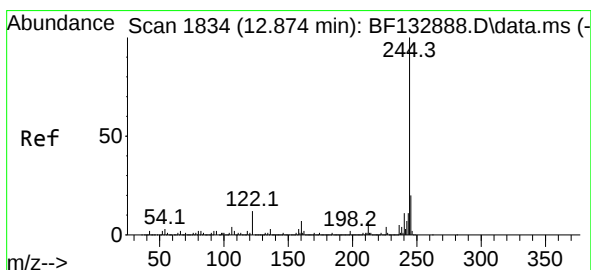
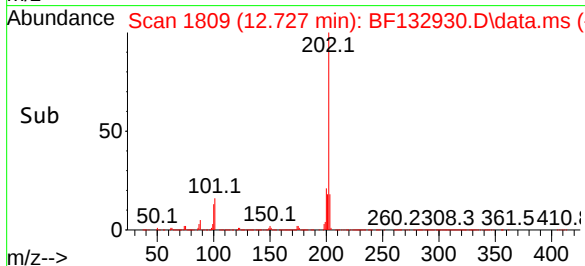
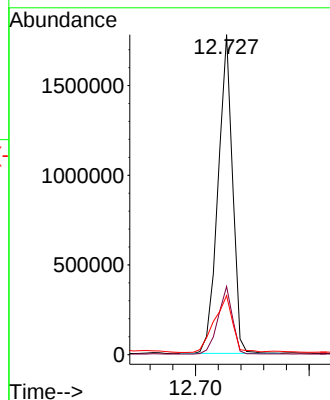
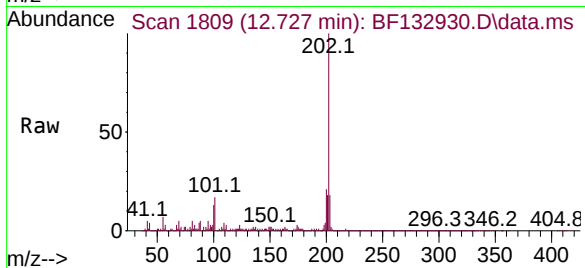
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.6	26.4
203	18.5	14.6	22.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#79

Terphenyl-d14

Concen: 76.764 ng

RT: 12.874 min Scan# 1834

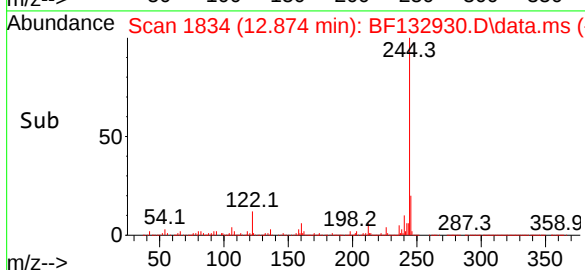
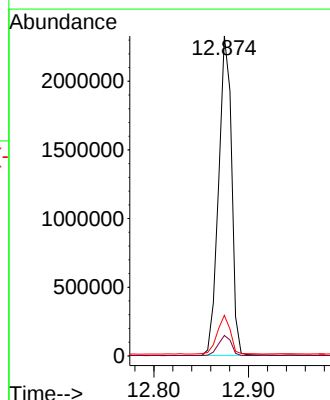
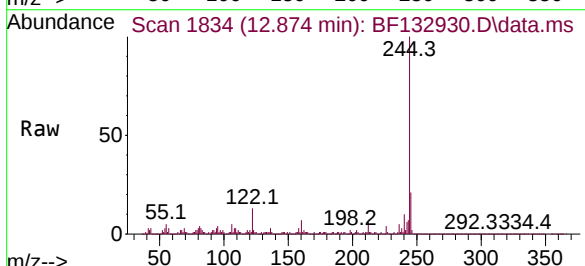
Delta R.T. 0.000 min

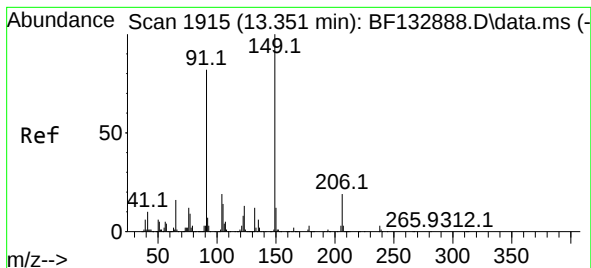
Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Tgt Ion:244 Resp: 2217161

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	12.7	9.6	14.4





#80

Butylbenzylphthalate

Concen: 10.159 ng

RT: 13.351 min Scan# 1915

Delta R.T. -0.000 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SPB-1WC-23-04-17

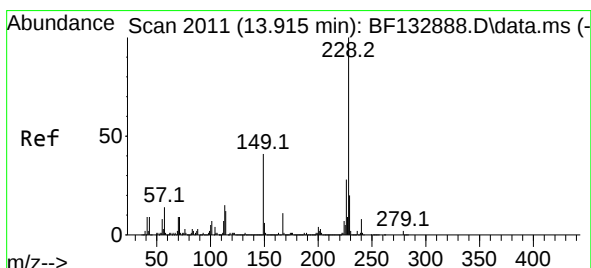
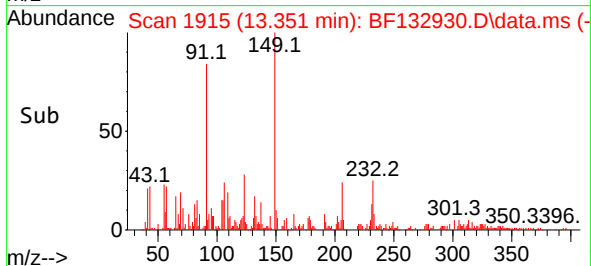
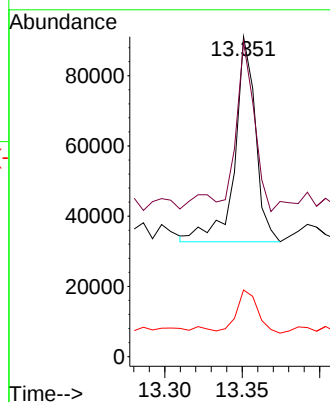
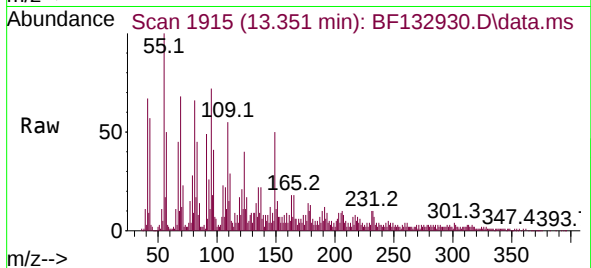
Tgt Ion:	149	Resp:	54712
Ion Ratio	Lower	Upper	
149	100		
91	98.4	65.4	98.0
206	20.8	15.6	23.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#81

Benzo(a)anthracene

Concen: 24.816 ng

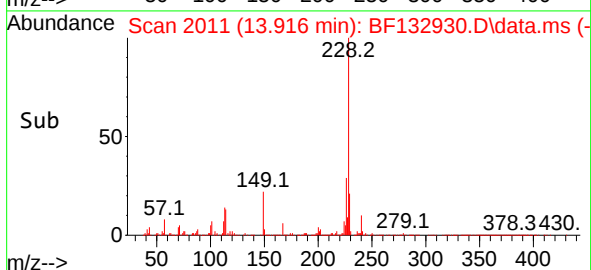
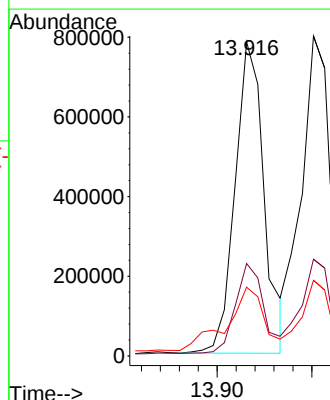
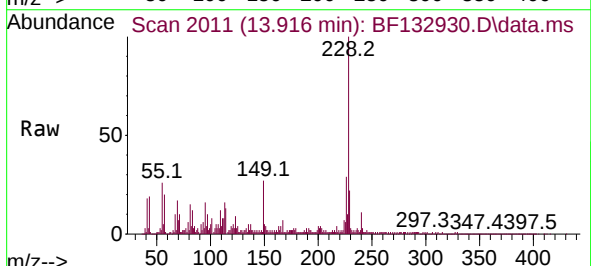
RT: 13.916 min Scan# 2011

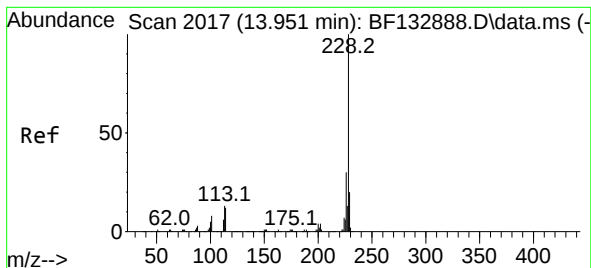
Delta R.T. 0.000 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Tgt Ion:	228	Resp:	831610
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.4	33.6
229	21.9	16.2	24.2





#83

Chrysene

Concen: 24.708 ng

RT: 13.951 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

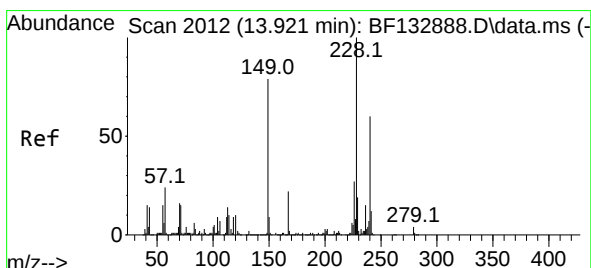
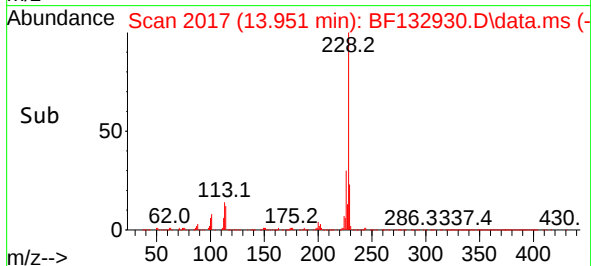
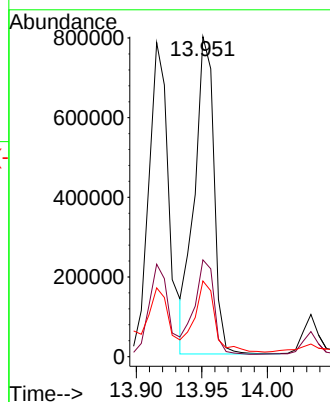
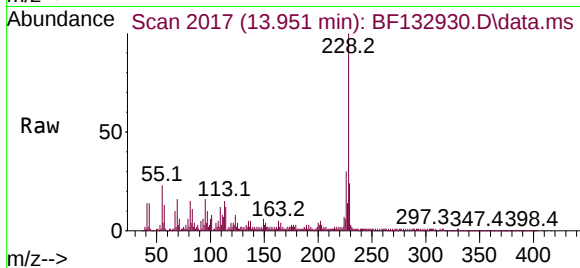
SPB-1WC-23-04-17

Tgt Ion:228 Resp: 822975
 Ion Ratio Lower Upper
 228 100
 226 30.2 24.3 36.5
 229 23.6 16.2 24.4

Manual Integrations

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 Supervised By :Jagrut Upadhyay 04/24/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 24.995 ng

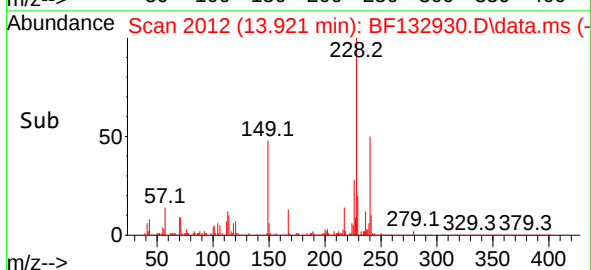
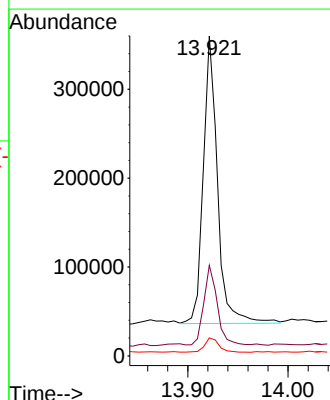
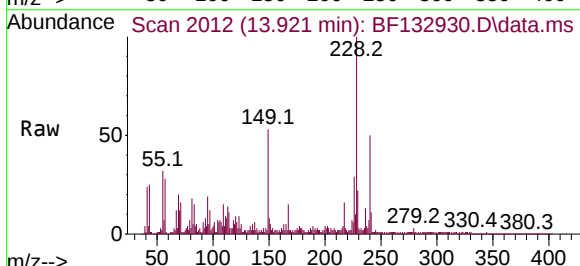
RT: 13.921 min Scan# 2012

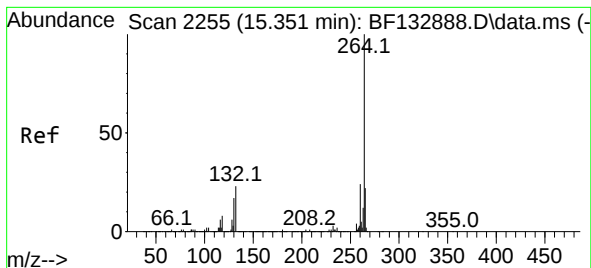
Delta R.T. 0.000 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Tgt Ion:149 Resp: 318578
 Ion Ratio Lower Upper
 149 100
 167 28.3 22.2 33.4
 279 5.7 4.2 6.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.368 min Scan# 21

Delta R.T. 0.017 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

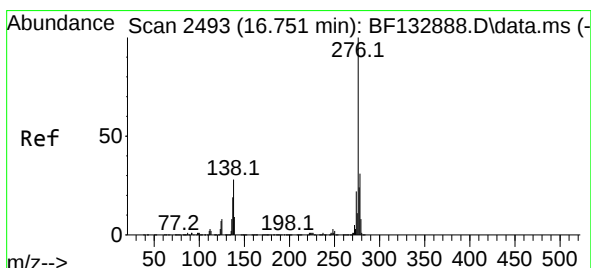
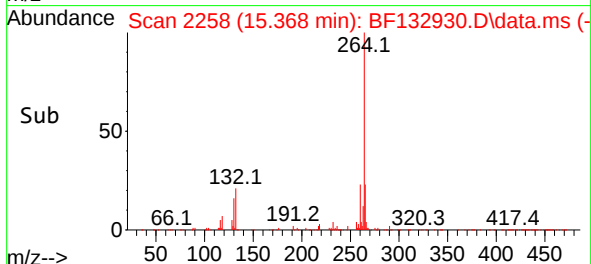
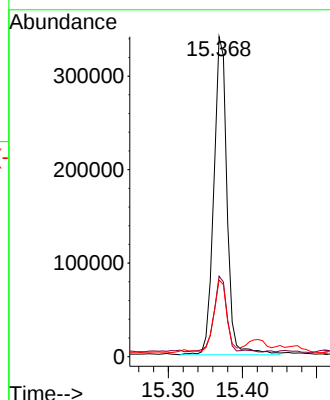
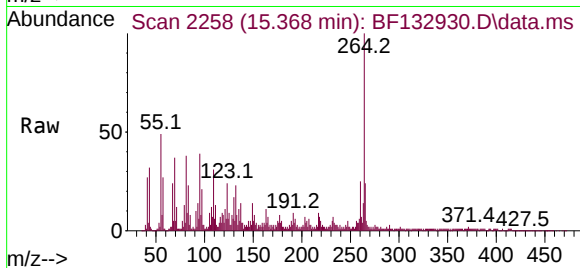
SPB-1WC-23-04-17

Tgt Ion:264 Resp: 422509
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.0 28.6
 265 23.9 17.7 26.5

Manual Integrations

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Reviewed By :Christian Giraldo 04/20/2023
 Supervised By :Jagrut Upadhyay 04/24/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.958 ng

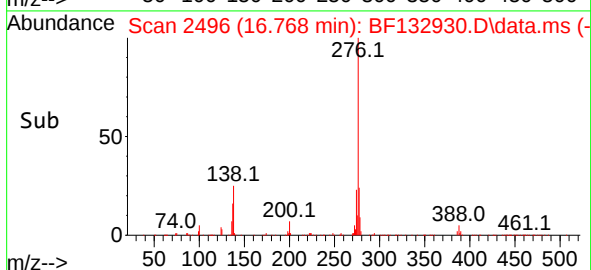
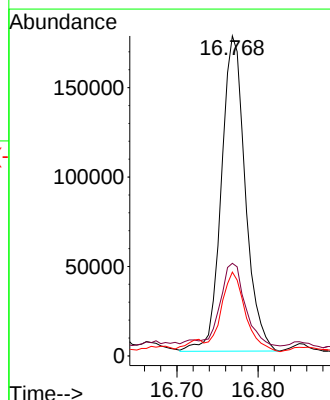
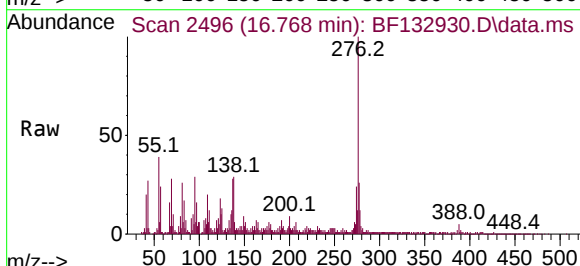
RT: 16.768 min Scan# 2496

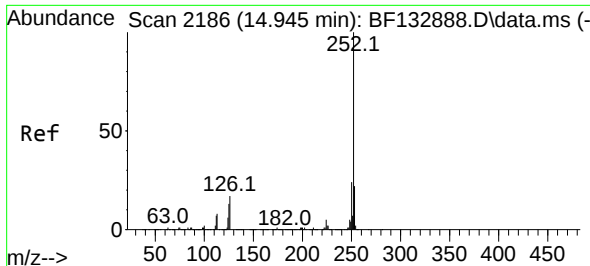
Delta R.T. 0.017 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

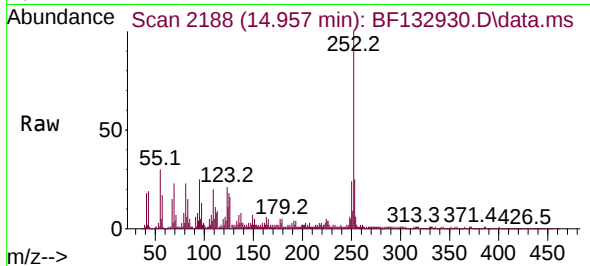
Tgt Ion:276 Resp: 361110
 Ion Ratio Lower Upper
 276 100
 138 27.1 25.5 38.3
 277 25.4 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 36.748 ng m
RT: 14.957 min Scan# 2188
Delta R.T. 0.012 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

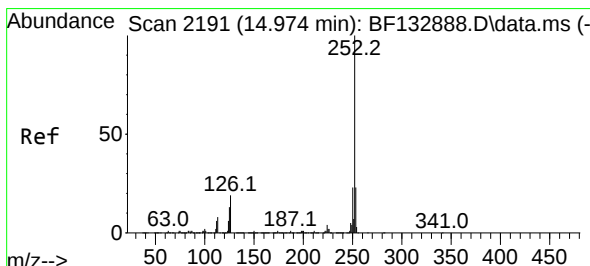
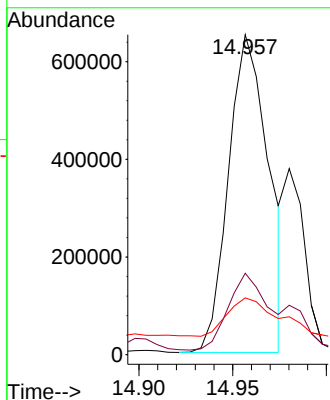
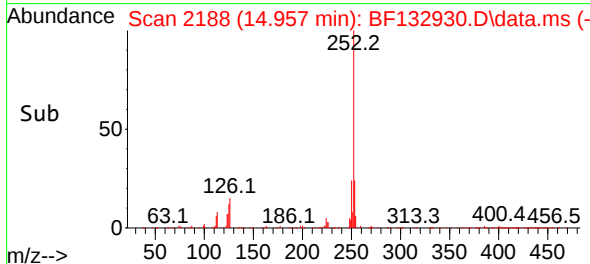
Instrument :
BNA_F
ClientSampleId :
SPB-1WC-23-04-17



Tgt Ion:252 Resp: 967146
Ion Ratio Lower Upper
252 100
253 25.4 17.9 26.9
125 17.7 10.0 15.0

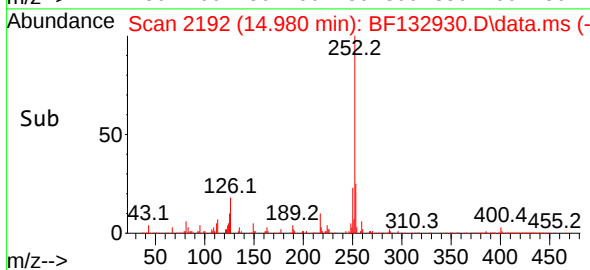
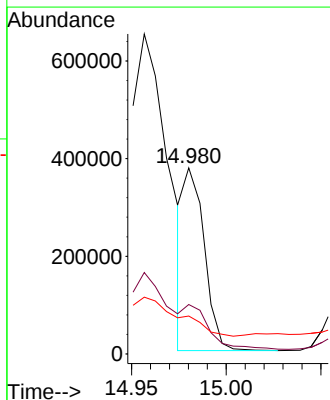
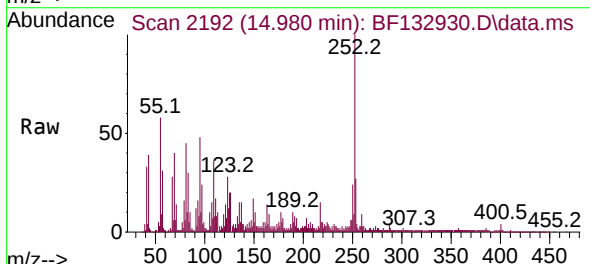
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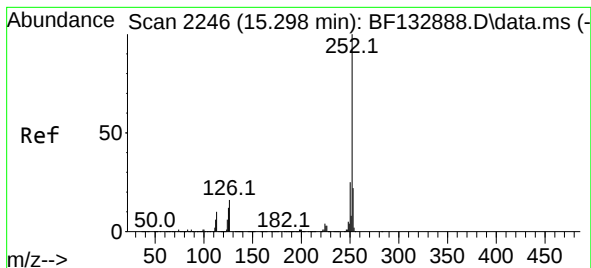
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#89
Benzo(k)fluoranthene
Concen: 10.684 ng m
RT: 14.980 min Scan# 2192
Delta R.T. 0.006 min
Lab File: BF132930.D
Acq: 20 Apr 2023 00:48

Tgt Ion:252 Resp: 280111
Ion Ratio Lower Upper
252 100
253 26.5 18.0 27.0
125 20.4 10.0 15.0





#90

Benzo(a)pyrene

Concen: 23.608 ng

RT: 15.310 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

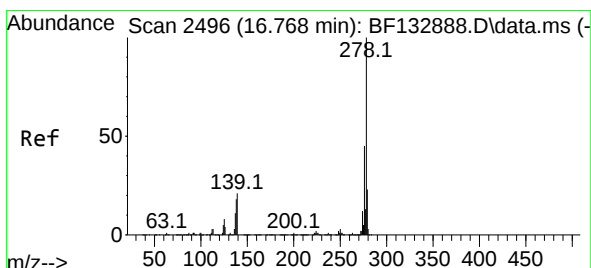
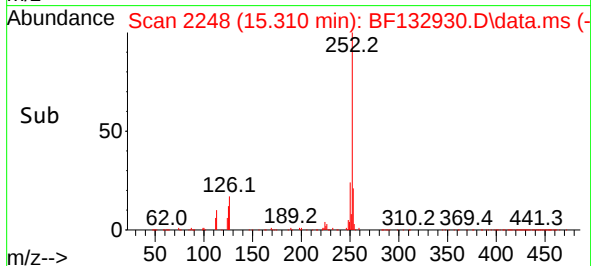
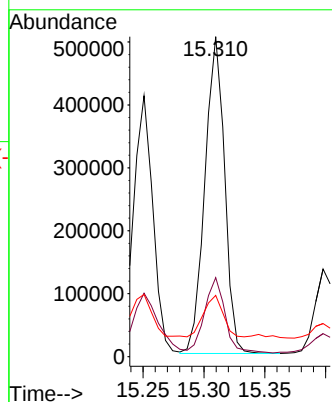
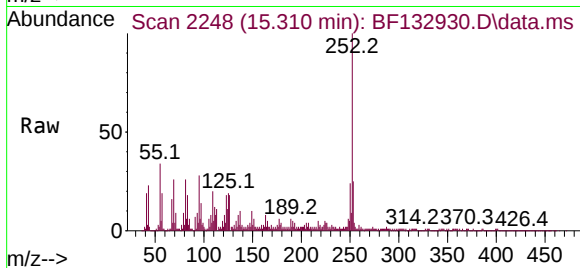
SPB-1WC-23-04-17

Tgt Ion:	252	Resp:	56764
Ion Ratio	Lower	Upper	
252	100		
253	24.7	17.7	26.5
125	19.1	9.9	14.9

Manual Integrations

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Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.891 ng

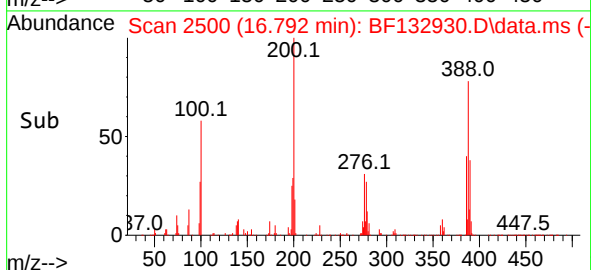
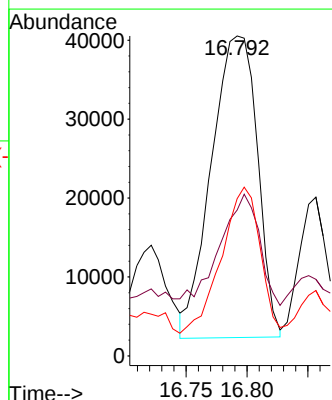
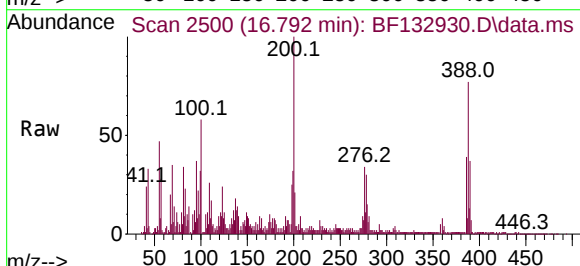
RT: 16.792 min Scan# 2500

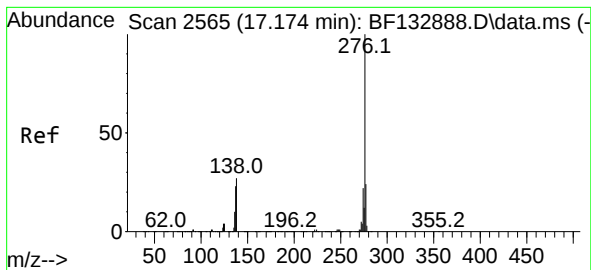
Delta R.T. 0.024 min

Lab File: BF132930.D

Acq: 20 Apr 2023 00:48

Tgt Ion:	278	Resp:	100615
Ion Ratio	Lower	Upper	
278	100		
139	45.6	16.7	25.1#
279	49.1	18.4	27.6#





#92

Benzo(g,h,i)perylene

Concen: 17.871 ng

RT: 17.192 min Scan# 2568

Delta R.T. 0.018 min

Lab File: BF132930.D

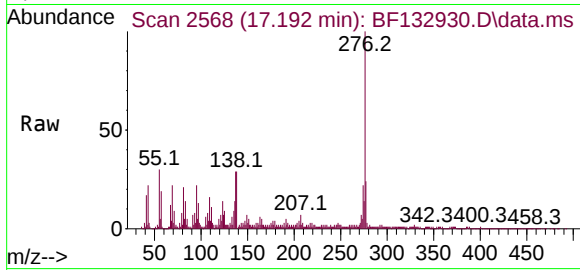
Acq: 20 Apr 2023 00:48

Instrument :

BNA_F

ClientSampleId :

SPB-1WC-23-04-17



Tgt Ion: 276 Resp: 351984

Ion Ratio Lower Upper

276 100

277 23.8 18.9 28.3

138 29.3 21.7 32.5

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 04/20/2023

Supervised By : Jagrut Upadhyay 04/24/2023

