

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
 Data File : BF135636.D
 Acq On : 06 Oct 2023 18:57
 Operator : CG\JU
 Sample : 04736-04
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11939

Manual Integrations
 APPROVED

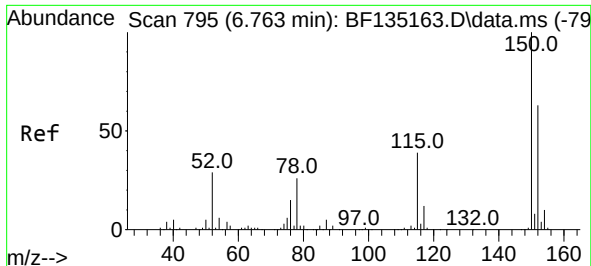
Reviewed By :Yogesh Patel 10/08/2023
 Supervised By :mohammad ahmed 10/08/2023

Quant Time: Oct 07 01:51:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

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

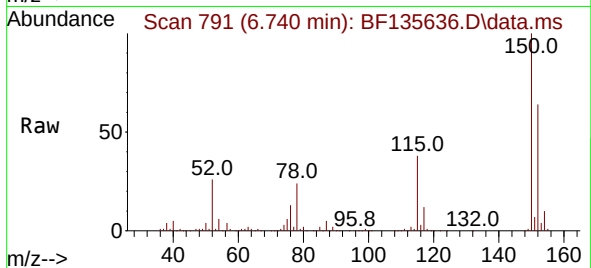
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	151687	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	557974	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	269357	20.000	ng	0.00
64) Phenanthrene-d10	11.275	188	453075	20.000	ng	0.00
76) Chrysene-d12	13.933	240	231534	20.000	ng	0.00
86) Perylene-d12	15.398	264	271235	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	1150499	123.361	ng	0.02
7) Phenol-d6	6.393	99	1506732	127.055	ng	0.00
23) Nitrobenzene-d5	7.310	82	919735	89.554	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	299716	111.970	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	1452571	81.361	ng	0.00
79) Terphenyl-d14	12.869	244	1134647	75.968	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.039	128	27113	1.000	ng	97
38) 1-Methylnaphthalene	8.828	142	19015	1.114	ng	98
49) Acenaphthylene	9.639	152	64454	2.582	ng	100
52) Acenaphthene	9.810	154	415998	28.213	ng	98
55) Dibenzofuran	9.981	168	251595	11.182	ng	# 97
56) 4-Nitrophenol	9.928	139	3500	1.176	ng	# 32
58) Fluorene	10.328	166	479739	27.734	ng	99
66) n-Nitrosodiphenylamine	10.433	169	16988	1.238	ng	# 1
71) Phenanthrene	11.304	178	2032346	94.843	ng	98
72) Anthracene	11.351	178	429919	19.519	ng	98
73) Carbazole	11.510	167	83115	4.145	ng	98
75) Fluoranthene	12.510	202	3383144	151.518	ng	99
78) Pyrene	12.733	202	2447923	111.048	ng	99
81) Benzo(a)anthracene	13.921	228	800309	53.530	ng	97
83) Chrysene	13.957	228	650457	43.759	ng	99
84) Bis(2-ethylhexyl)phtha...	13.904	149	35183	4.418	ng	99
87) Indeno(1,2,3-cd)pyrene	16.880	276	133014	7.479	ng	99
88) Benzo(b)fluoranthene	14.974	252	538068m	36.646	ng	
89) Benzo(k)fluoranthene	14.998	252	153583m	10.589	ng	
90) Benzo(a)pyrene	15.339	252	315205	22.511	ng	100
91) Dibenzo(a,h)anthracene	16.892	278	37387	2.569	ng	96
92) Benzo(g,h,i)perylene	17.333	276	115516	7.601	ng	97

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

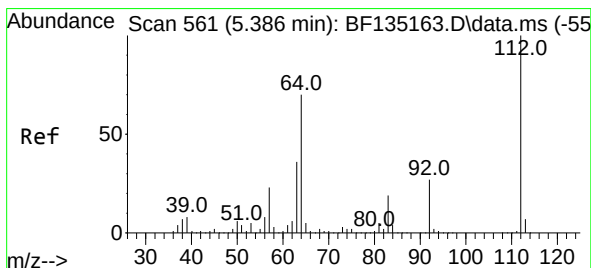
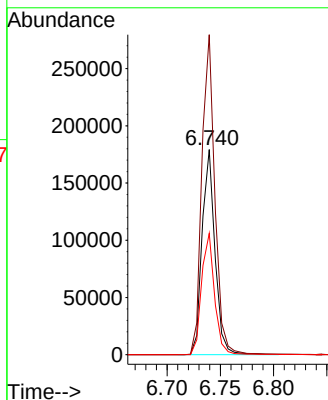
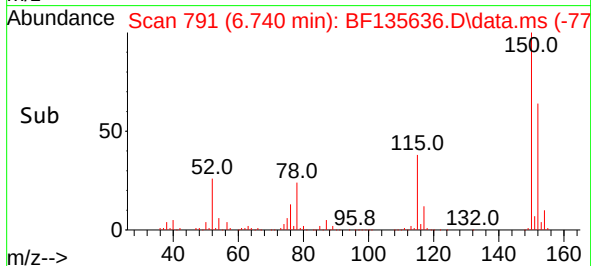
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:152 Resp: 15168
Ion Ratio Lower Upper
152 100
150 156.0 127.8 191.6
115 59.1 49.8 74.8

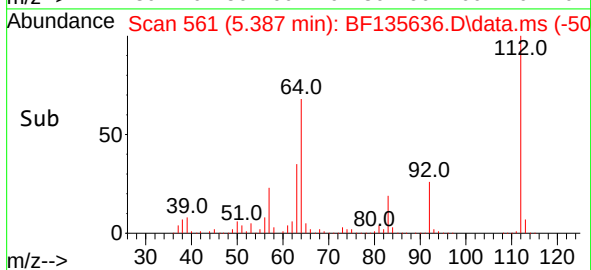
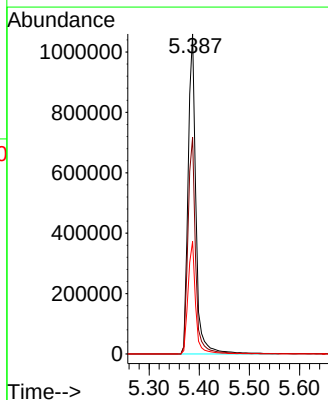
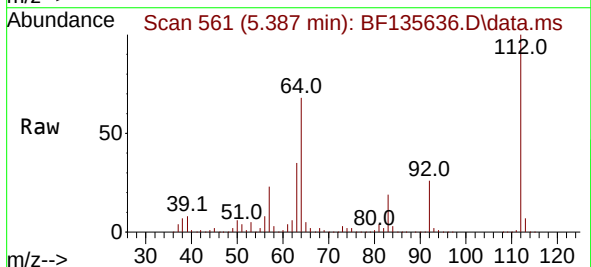
Manual Integrations
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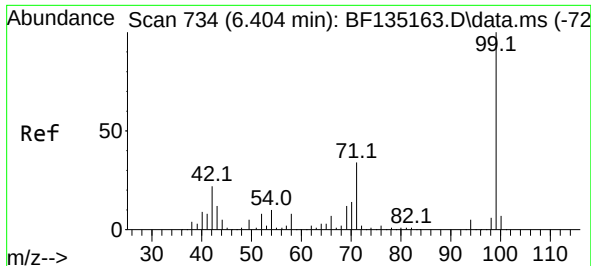
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#5
2-Fluorophenol
Concen: 123.361 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.018 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

Tgt Ion:112 Resp: 1150499
Ion Ratio Lower Upper
112 100
64 67.7 55.9 83.9
63 35.1 29.0 43.6





#7

Phenol-d6

Concen: 127.055 ng

RT: 6.393 min Scan# 71

Delta R.T. 0.006 min

Lab File: BF135636.D

Acq: 06 Oct 2023 18:57

Instrument :

BNA_F

ClientSampleId :

72-11939

Tgt Ion: 99 Resp: 150673

Ion Ratio Lower Upper

99 100

42 23.8 17.9 26.9

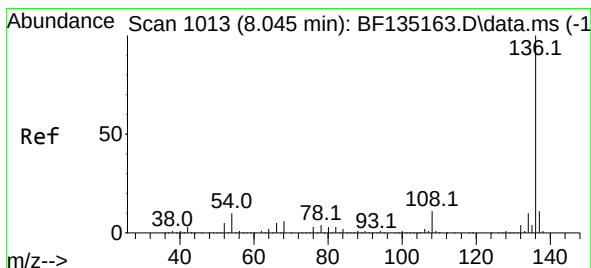
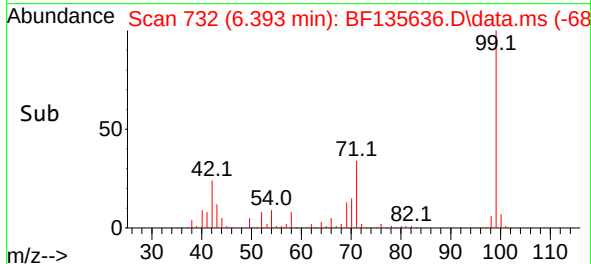
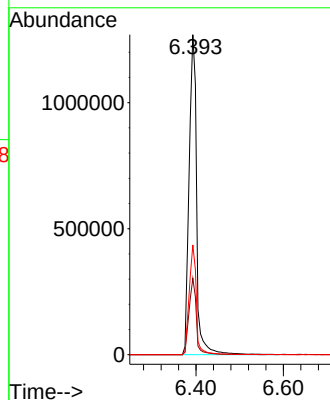
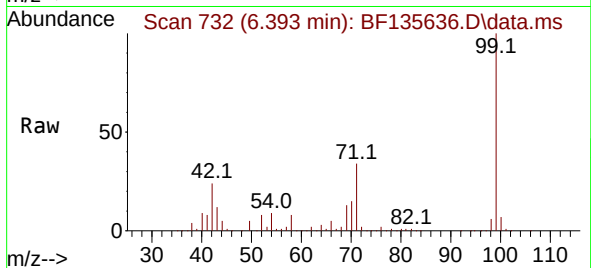
71 34.3 27.0 40.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.016 min Scan# 1008

Delta R.T. 0.000 min

Lab File: BF135636.D

Acq: 06 Oct 2023 18:57

Tgt Ion:136 Resp: 557974

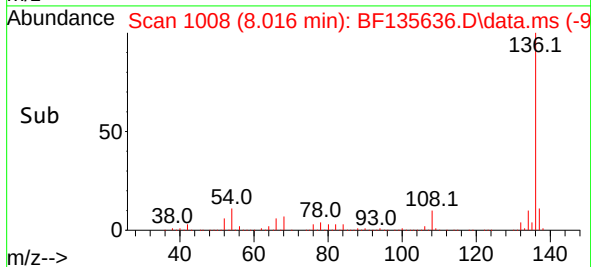
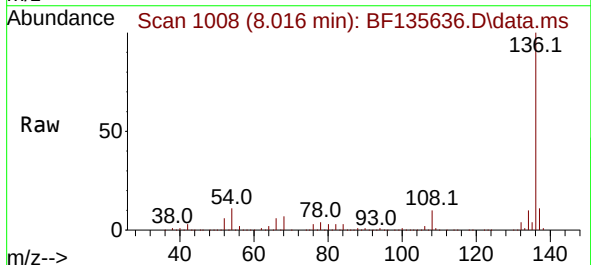
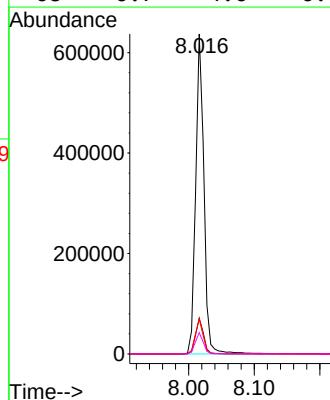
Ion Ratio Lower Upper

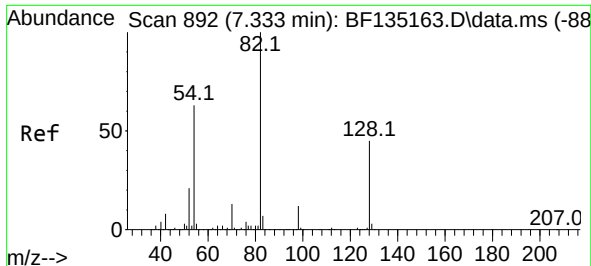
136 100

137 11.2 8.8 13.2

54 11.0 7.7 11.5

68 6.7 4.6 6.8





#23

Nitrobenzene-d5

Concen: 89.554 ng

RT: 7.310 min Scan# 89

Delta R.T. 0.000 min

Lab File: BF135636.D

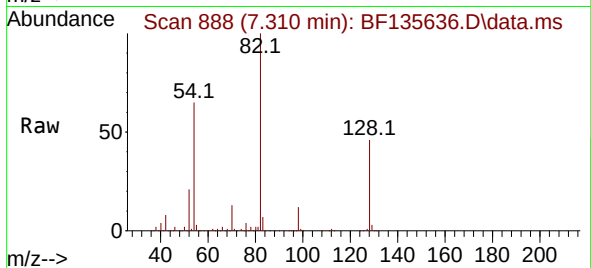
Acq: 06 Oct 2023 18:57

Instrument :

BNA_F

ClientSampleId :

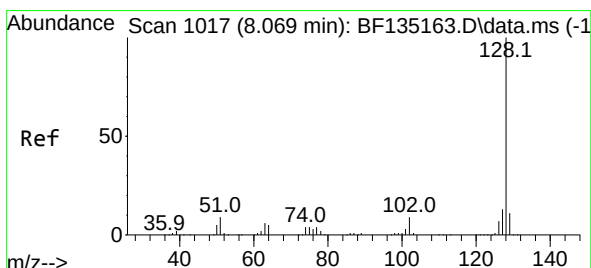
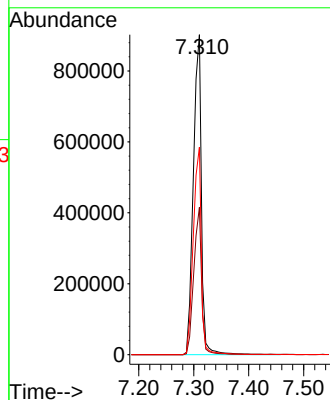
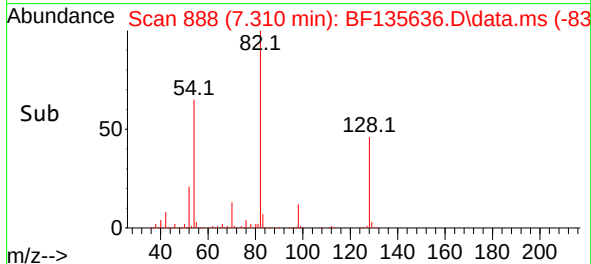
72-11939



Tgt Ion:	82	Resp:	91973
Ion Ratio	Lower	Upper	
82	100		
128	46.1	35.8	53.6
54	64.8	50.6	76.0

Manual Integrations
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Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#31

Naphthalene

Concen: 1.000 ng

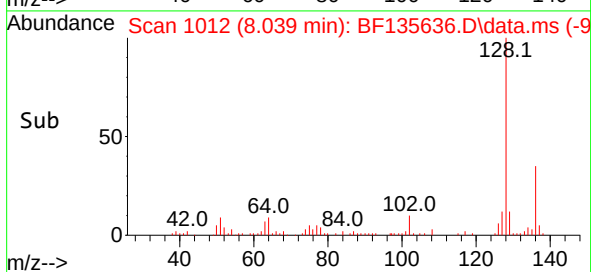
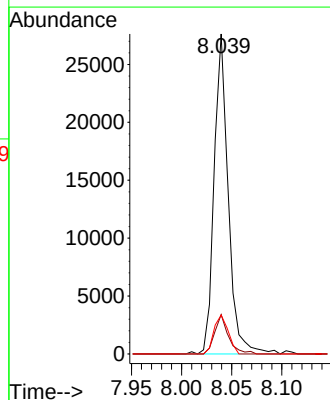
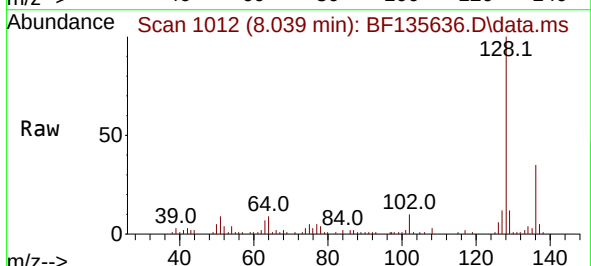
RT: 8.039 min Scan# 1012

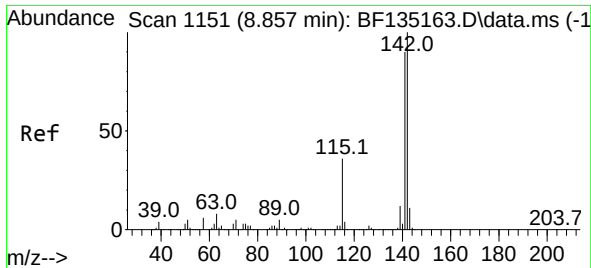
Delta R.T. 0.000 min

Lab File: BF135636.D

Acq: 06 Oct 2023 18:57

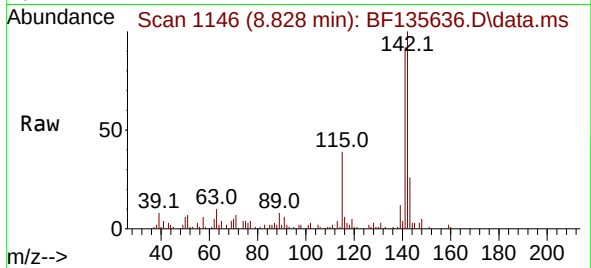
Tgt Ion:	128	Resp:	27113
Ion Ratio	Lower	Upper	
128	100		
129	12.3	8.7	13.1
127	12.2	10.7	16.1





#38
1-Methylnaphthalene
Concen: 1.114 ng
RT: 8.828 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

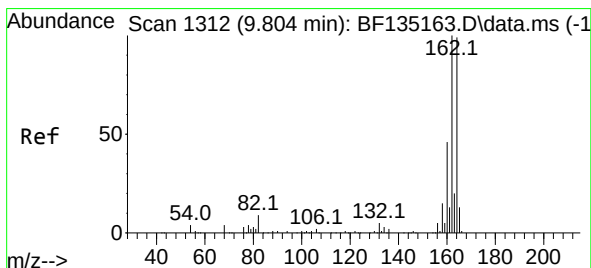
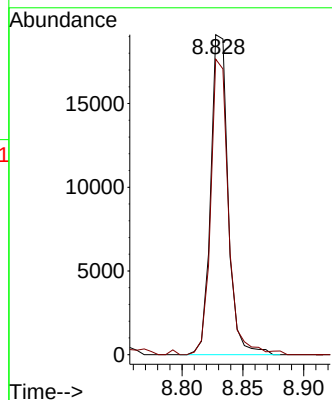
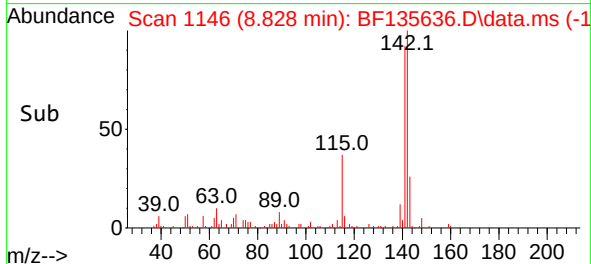
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:142 Resp: 1901
Ion Ratio Lower Upper
142 100
141 92.3 72.4 108.6

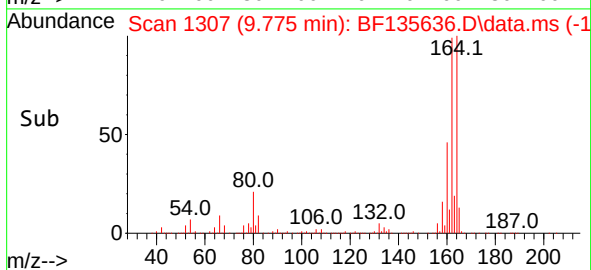
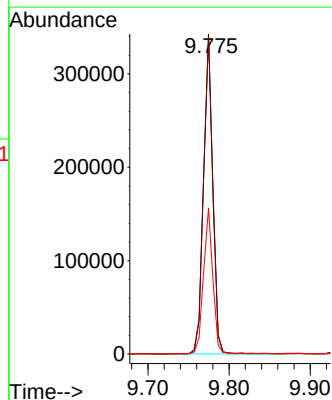
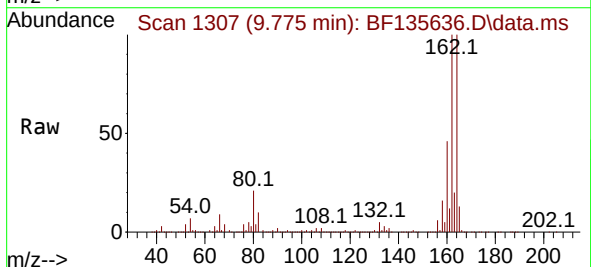
Manual Integrations
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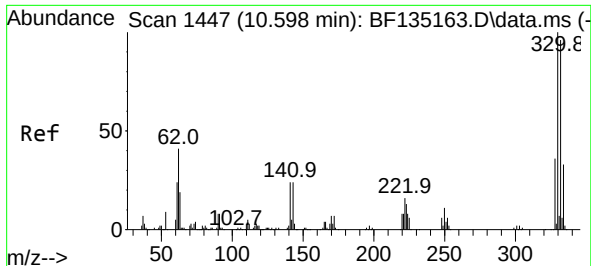
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

Tgt Ion:164 Resp: 269357
Ion Ratio Lower Upper
164 100
162 99.6 81.0 121.4
160 45.6 37.0 55.4





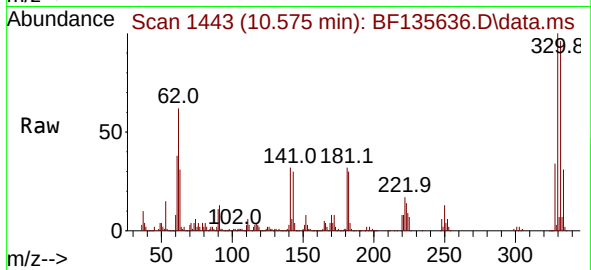
#42
 2,4,6-Tribromophenol
 Concen: 111.970 ng
 RT: 10.575 min Scan# 1443
 Delta R.T. 0.006 min
 Lab File: BF135636.D
 Acq: 06 Oct 2023 18:57

Instrument :

BNA_F

ClientSampleId :

72-11939

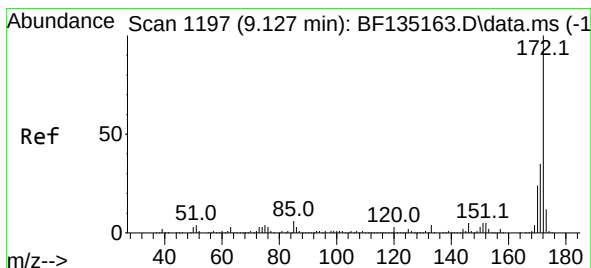
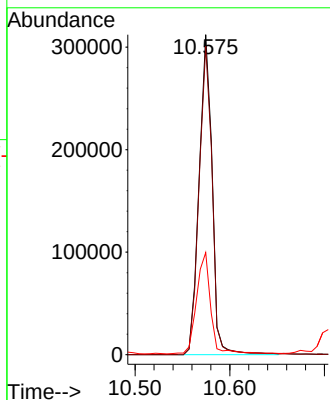
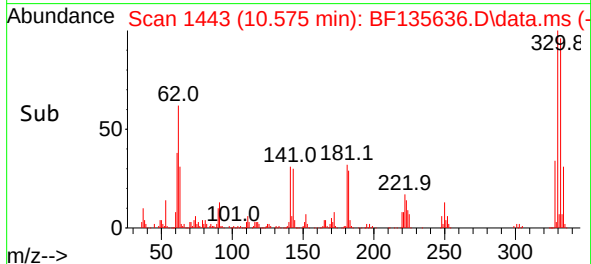


Tgt Ion: 330 Resp: 299710
 Ion Ratio Lower Upper
 330 100
 332 97.9 77.3 115.9
 141 34.1 25.8 38.8

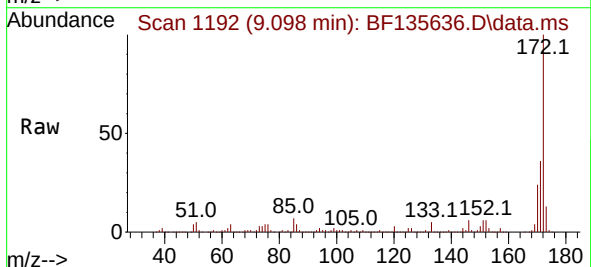
Manual Integrations

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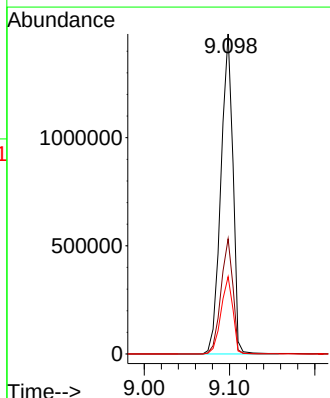
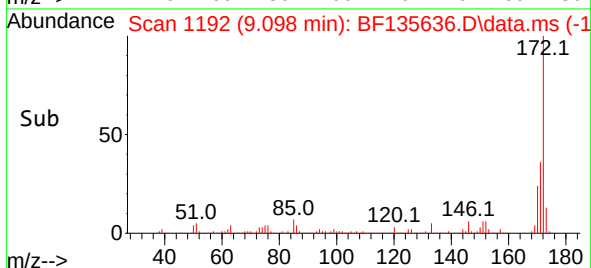
Reviewed By : Yogesh Patel 10/08/2023
 Supervised By : mohammad ahmed 10/08/2023

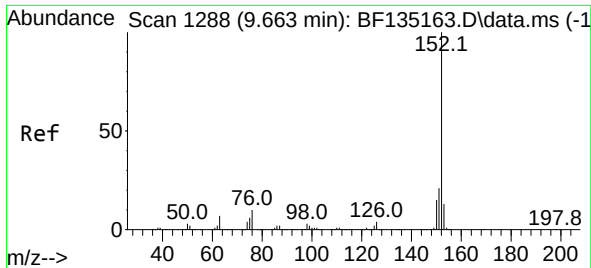


#45
 2-Fluorobiphenyl
 Concen: 81.361 ng
 RT: 9.098 min Scan# 1192
 Delta R.T. 0.000 min
 Lab File: BF135636.D
 Acq: 06 Oct 2023 18:57



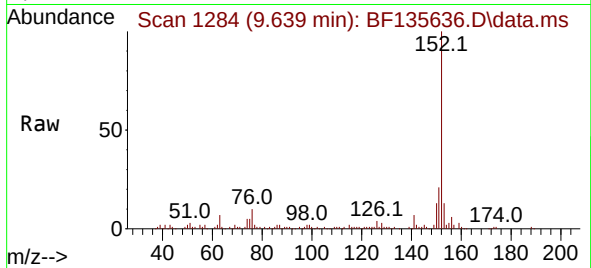
Tgt Ion: 172 Resp: 1452571
 Ion Ratio Lower Upper
 172 100
 171 36.0 28.4 42.6
 170 24.2 19.0 28.4





#49
Acenaphthylene
Concen: 2.582 ng
RT: 9.639 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

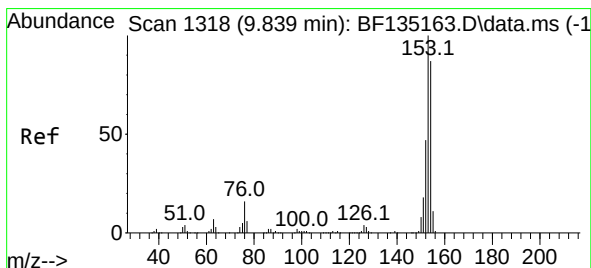
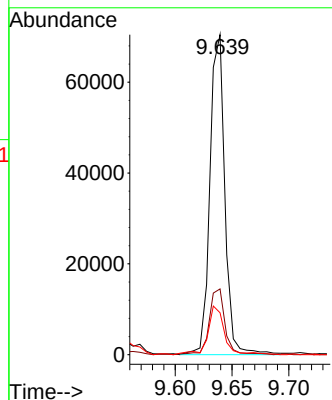
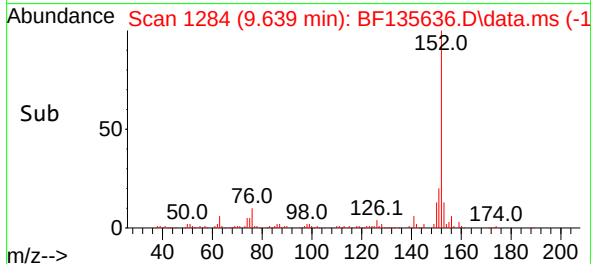
Instrument :
BNA_F
ClientSampleId :
72-11939



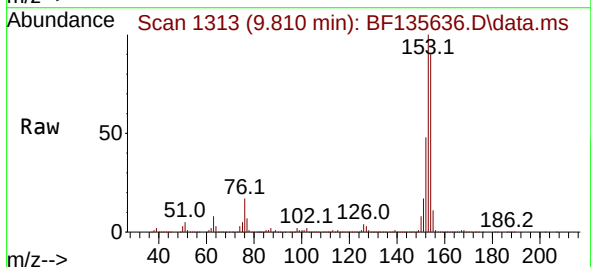
Tgt Ion:152 Resp: 64454
Ion Ratio Lower Upper
152 100
151 20.6 16.4 24.6
153 13.1 10.4 15.6

Manual Integrations
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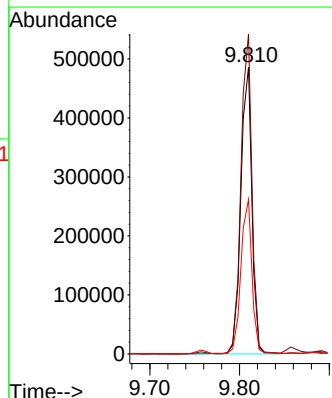
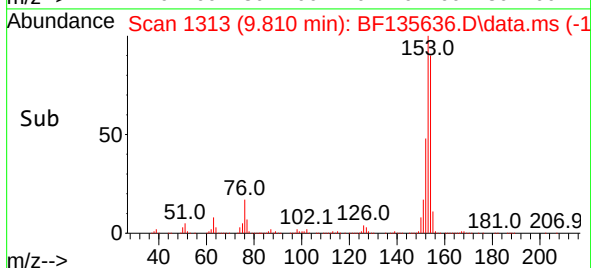
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

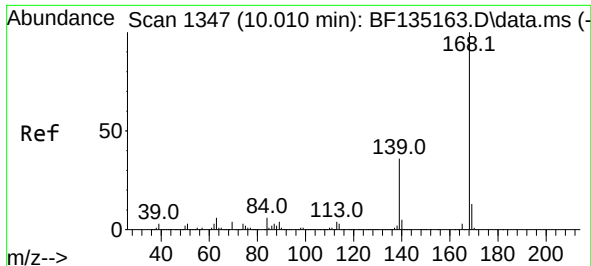


#52
Acenaphthene
Concen: 28.213 ng
RT: 9.810 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57



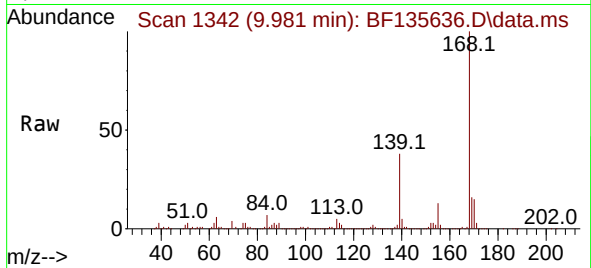
Tgt Ion:154 Resp: 415998
Ion Ratio Lower Upper
154 100
153 111.5 92.1 138.1
152 53.8 43.1 64.7





#55
Dibenzofuran
Concen: 11.182 ng
RT: 9.981 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

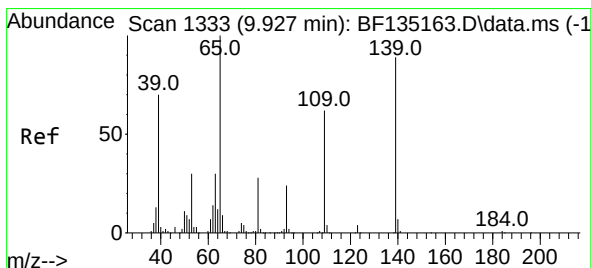
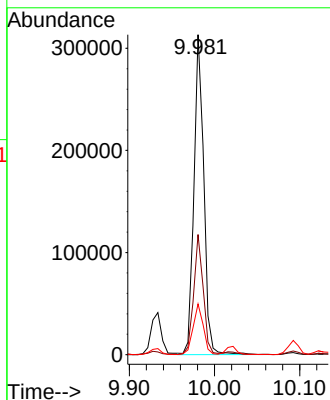
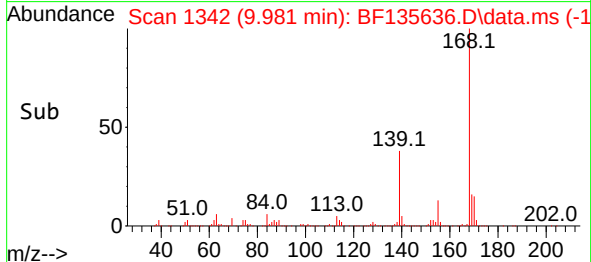
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:168 Resp: 25159
Ion Ratio Lower Upper
168 100
139 37.5 29.0 43.6
169 15.8 10.4 15.6

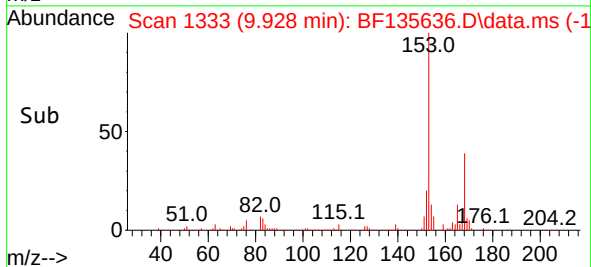
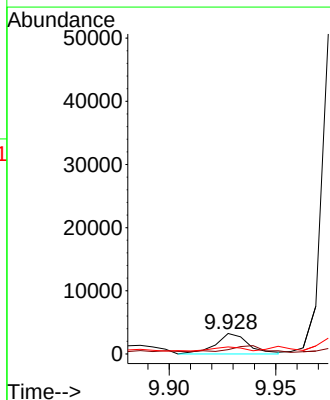
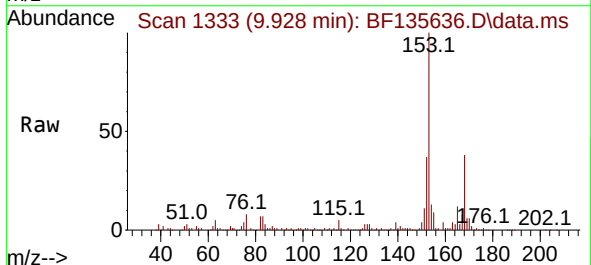
Manual Integrations
APPROVED

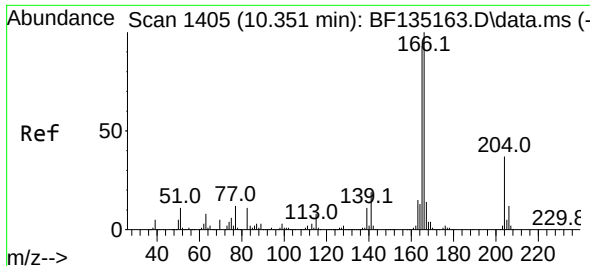
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#56
4-Nitrophenol
Concen: 1.176 ng
RT: 9.928 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

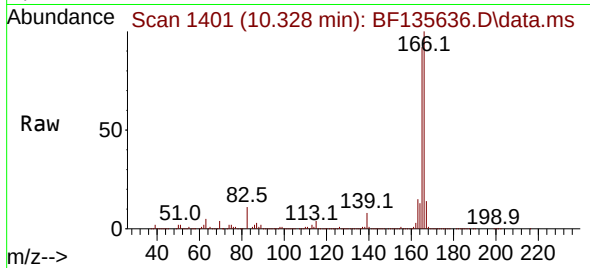
Tgt Ion:139 Resp: 3500
Ion Ratio Lower Upper
139 100
109 21.4 49.8 89.8#
65 34.3 92.7 132.7#





#58
Fluorene
Concen: 27.734 ng
RT: 10.328 min Scan# 1405
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

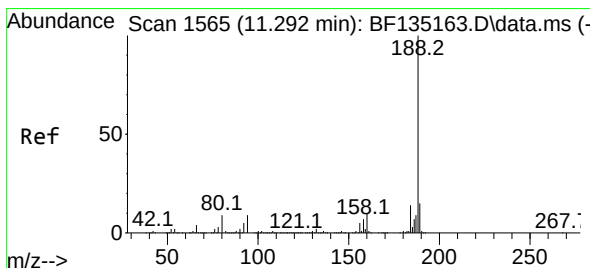
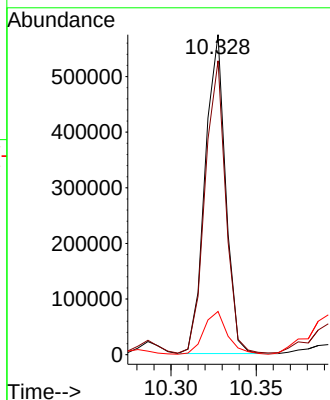
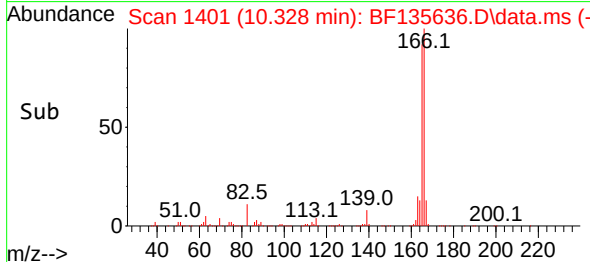
Instrument :
BNA_F
ClientSampleId :
72-11939



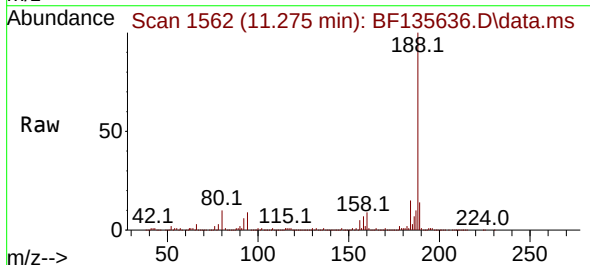
Tgt Ion:166 Resp: 479739
Ion Ratio Lower Upper
166 100
165 91.9 74.3 111.5
167 13.5 10.9 16.3

Manual Integrations
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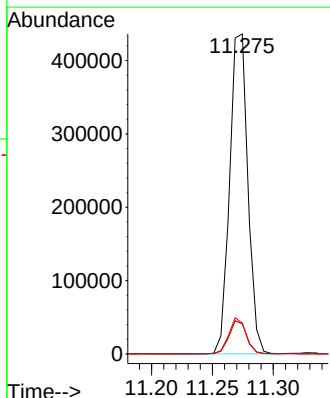
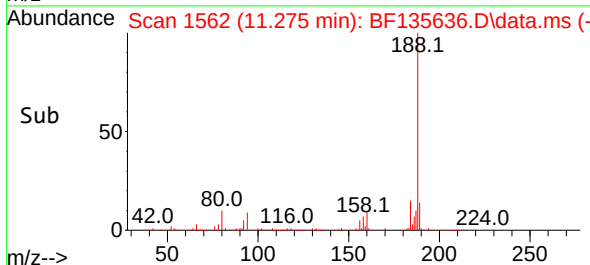
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

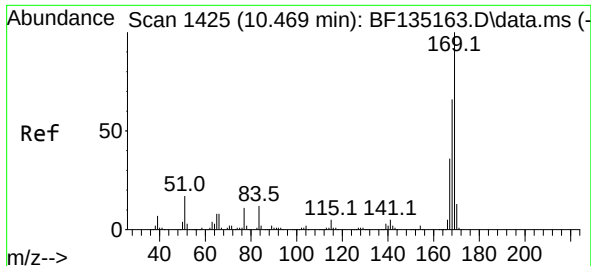


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1562
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57



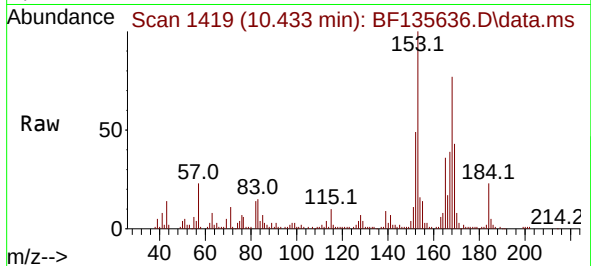
Tgt Ion:188 Resp: 453075
Ion Ratio Lower Upper
188 100
94 9.4 7.0 10.6
80 9.6 7.5 11.3





#66
n-Nitrosodiphenylamine
Concen: 1.238 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

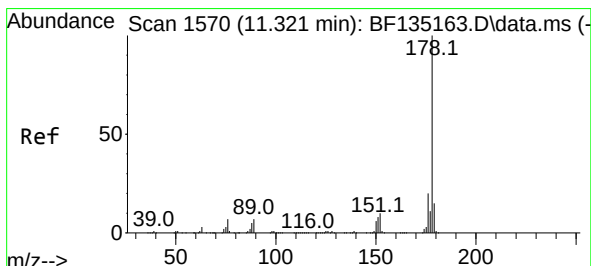
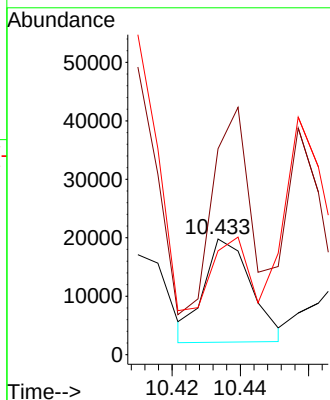
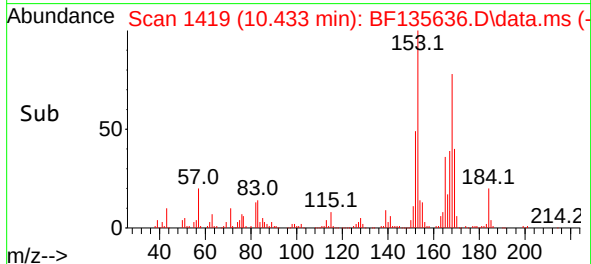
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:169 Resp: 1698
Ion Ratio Lower Upper
169 100
168 178.1 52.8 79.2
167 89.8 29.0 43.6

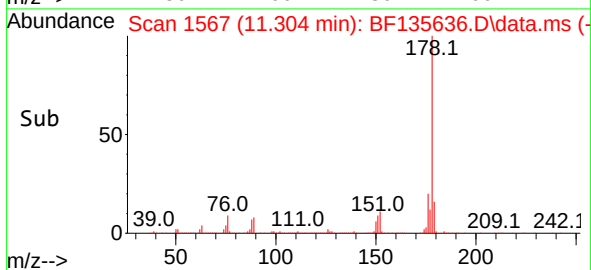
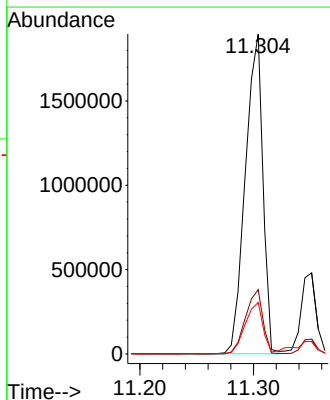
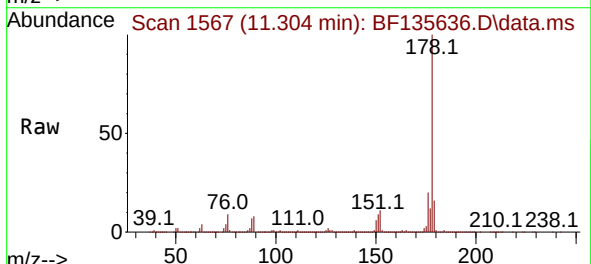
Manual Integrations
APPROVED

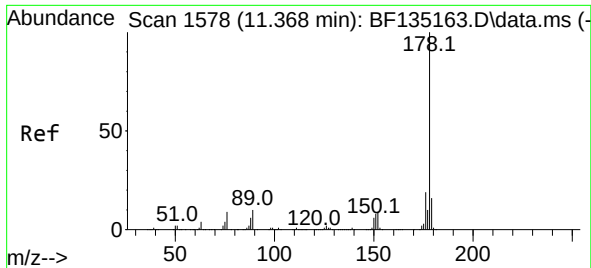
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#71
Phenanthrene
Concen: 94.843 ng
RT: 11.304 min Scan# 1567
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

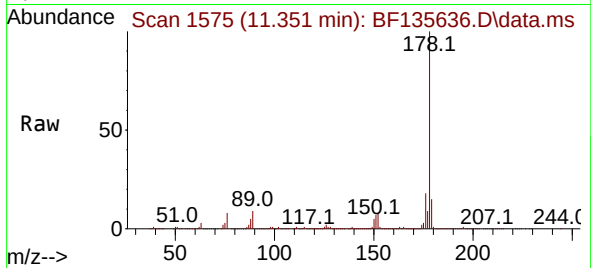
Tgt Ion:178 Resp: 2032346
Ion Ratio Lower Upper
178 100
176 20.1 15.6 23.4
179 16.1 12.0 18.0





#72
 Anthracene
 Concen: 19.519 ng
 RT: 11.351 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF135636.D
 Acq: 06 Oct 2023 18:57

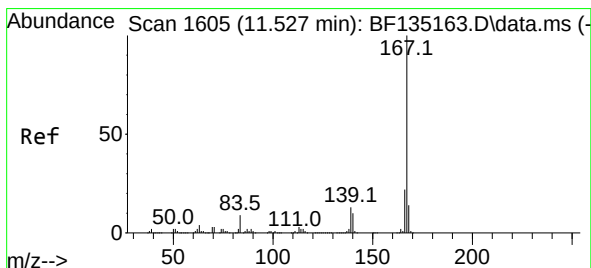
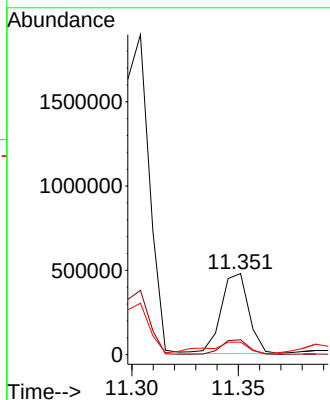
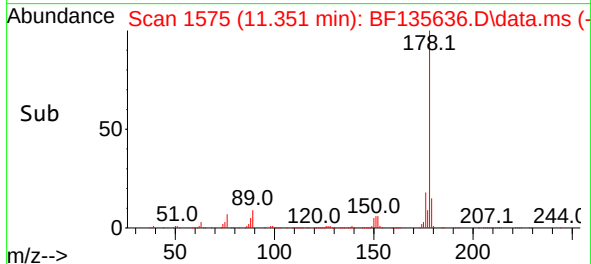
Instrument :
 BNA_F
 ClientSampleId :
 72-11939



Tgt Ion:178 Resp: 429919
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 15.3 12.6 19.0

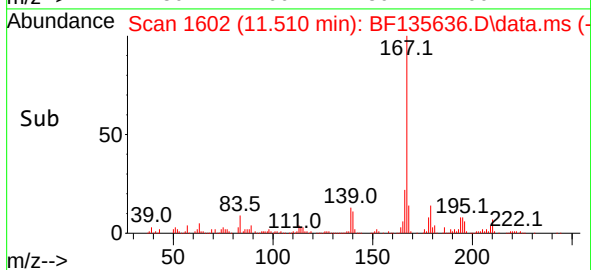
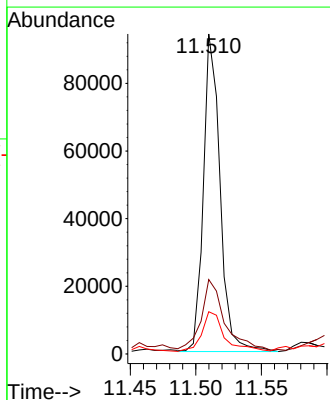
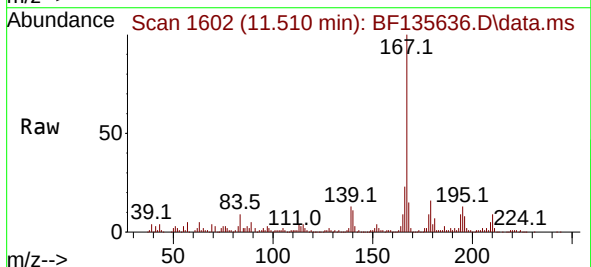
Manual Integrations
 APPROVED

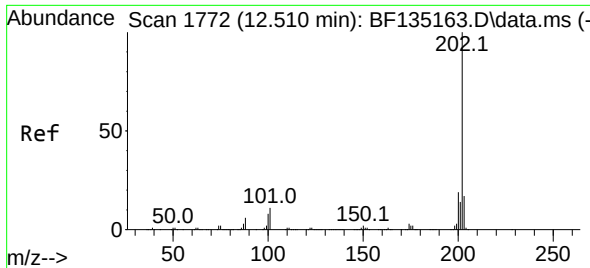
Reviewed By :Yogesh Patel 10/08/2023
 Supervised By :mohammad ahmed 10/08/2023



#73
 Carbazole
 Concen: 4.145 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BF135636.D
 Acq: 06 Oct 2023 18:57

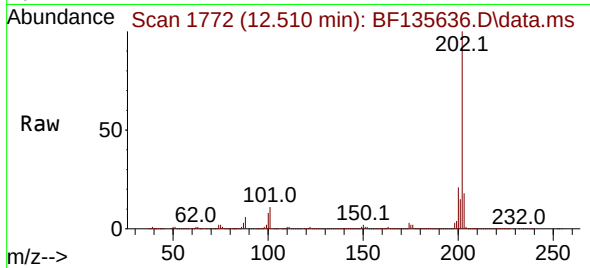
Tgt Ion:167 Resp: 83115
 Ion Ratio Lower Upper
 167 100
 166 23.2 17.4 26.0
 139 13.2 10.6 15.8





#75
Fluoranthene
Concen: 151.518 ng
RT: 12.510 min Scan# 11
Delta R.T. 0.024 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

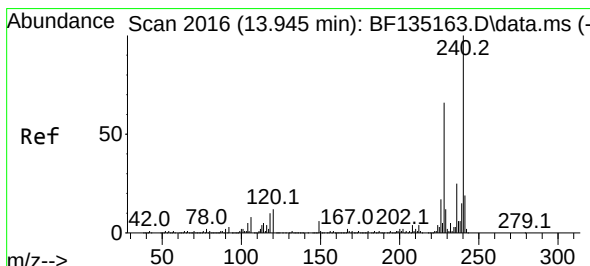
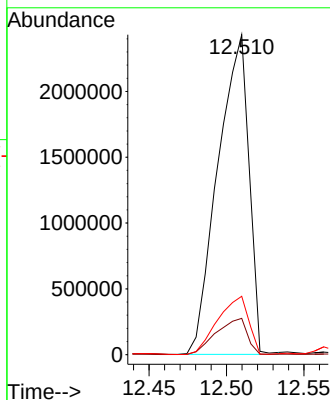
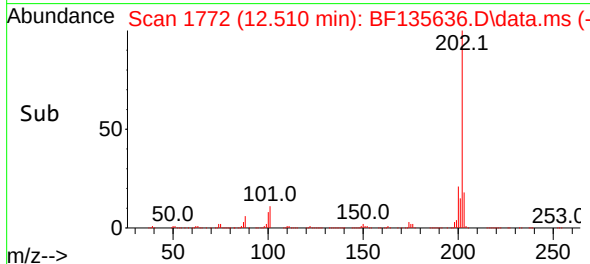
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:202 Resp: 338314
Ion Ratio Lower Upper
202 100
101 11.4 0.0 31.3
203 18.2 0.0 37.4

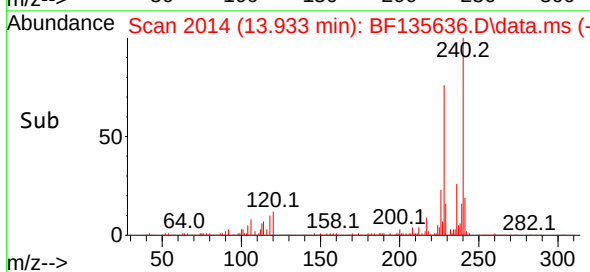
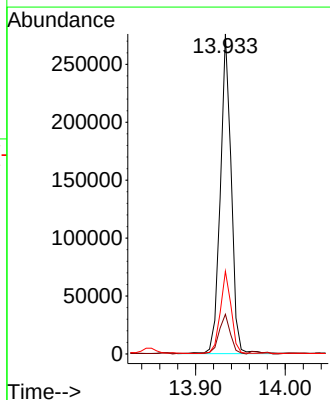
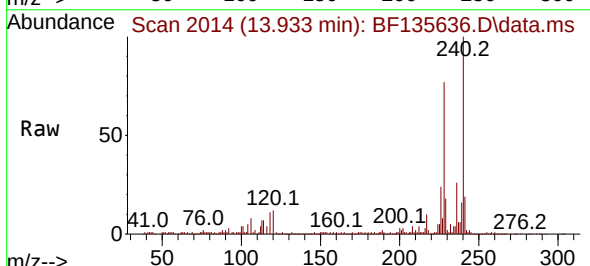
Manual Integrations
APPROVED

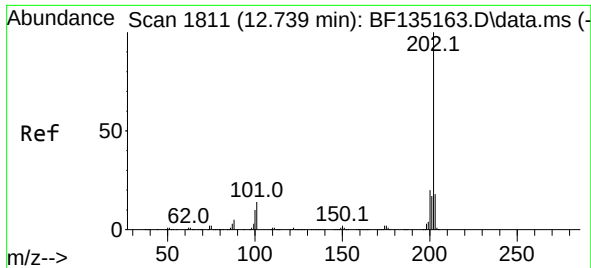
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

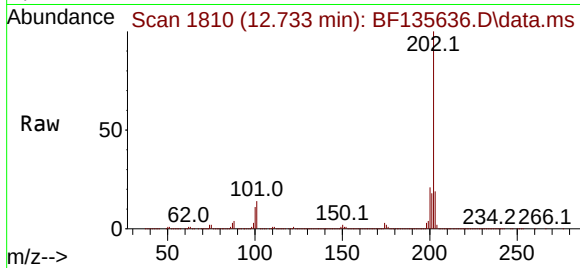
Tgt Ion:240 Resp: 231534
Ion Ratio Lower Upper
240 100
120 12.4 9.4 14.2
236 25.8 19.8 29.8





#78
Pyrene
Concen: 111.048 ng
RT: 12.733 min Scan# 1810
Delta R.T. 0.018 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

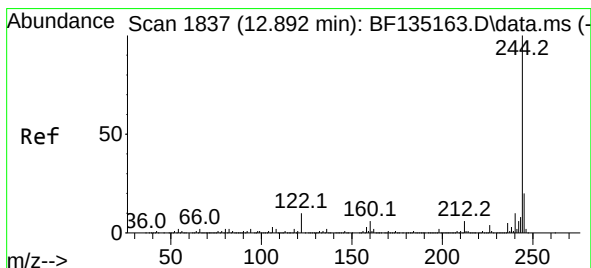
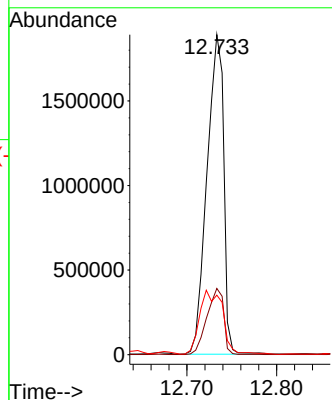
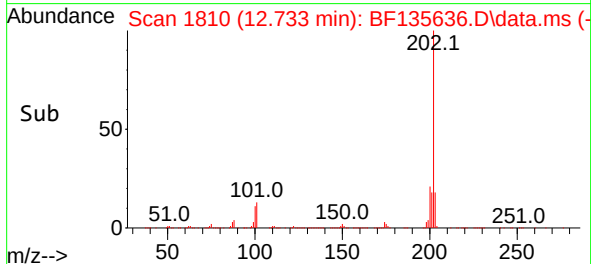
Instrument :
BNA_F
ClientSampleId :
72-11939



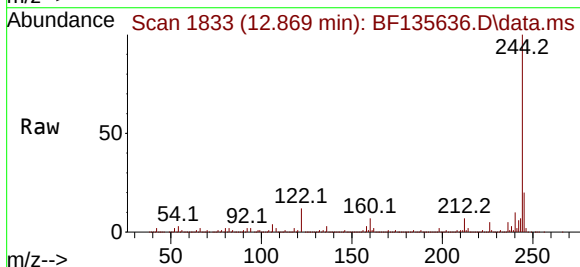
Tgt Ion:202 Resp: 244792
Ion Ratio Lower Upper
202 100
200 20.7 16.2 24.2
203 18.6 14.2 21.4

Manual Integrations
APPROVED

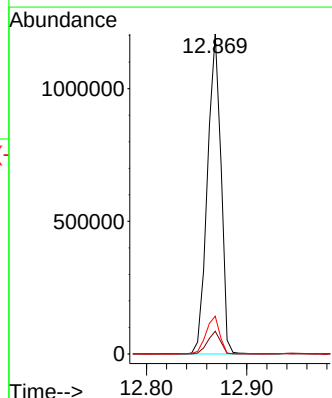
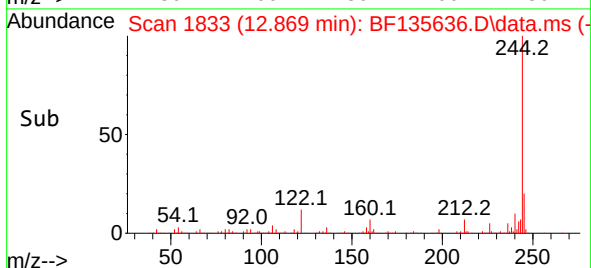
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

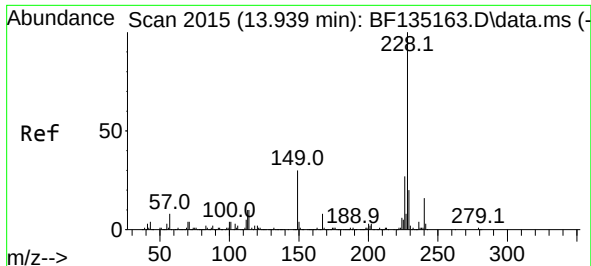


#79
Terphenyl-d14
Concen: 75.968 ng
RT: 12.869 min Scan# 1833
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57



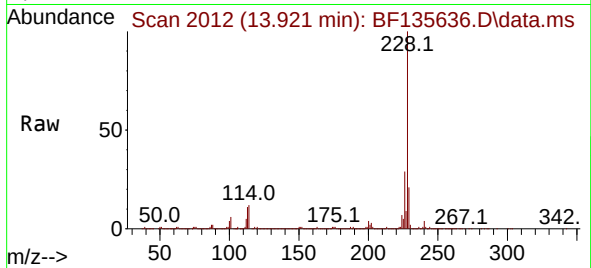
Tgt Ion:244 Resp: 1134647
Ion Ratio Lower Upper
244 100
212 7.1 5.1 7.7
122 11.8 7.9 11.9





#81
Benzo(a)anthracene
Concen: 53.530 ng
RT: 13.921 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

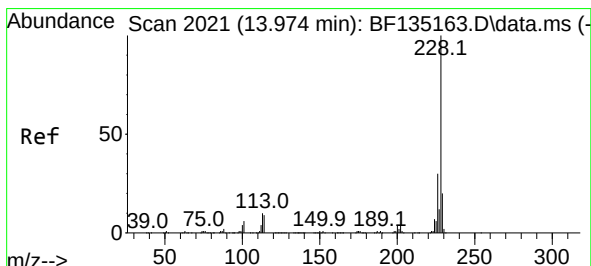
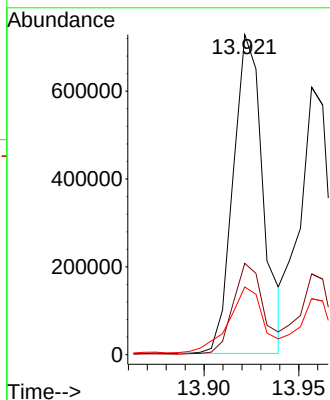
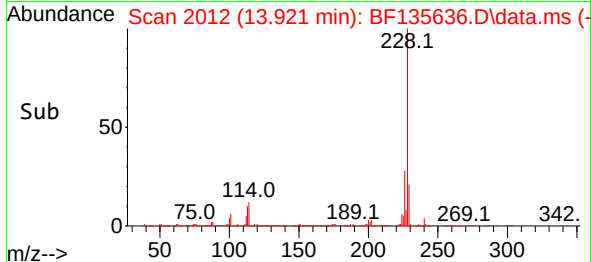
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:228 Resp: 800309
Ion Ratio Lower Upper
228 100
226 28.6 21.7 32.5
229 21.2 15.8 23.8

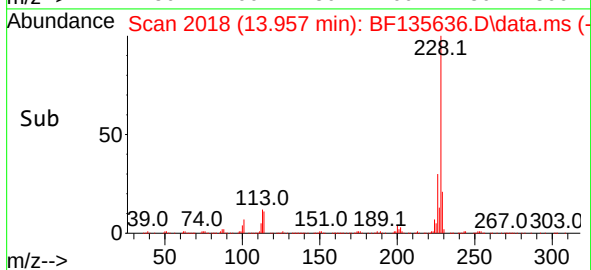
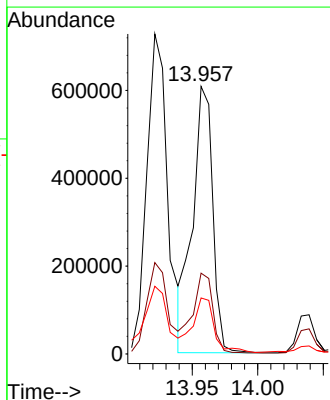
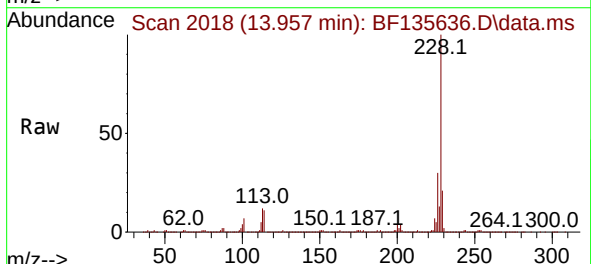
Manual Integrations
APPROVED

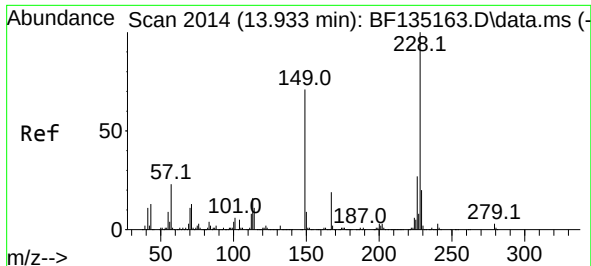
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#83
Chrysene
Concen: 43.759 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

Tgt Ion:228 Resp: 650457
Ion Ratio Lower Upper
228 100
226 30.2 24.3 36.5
229 21.0 16.0 24.0





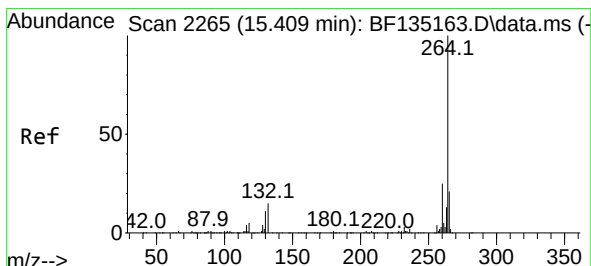
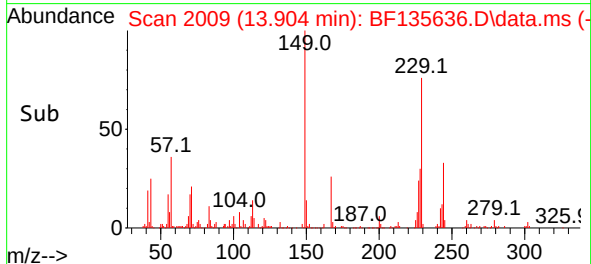
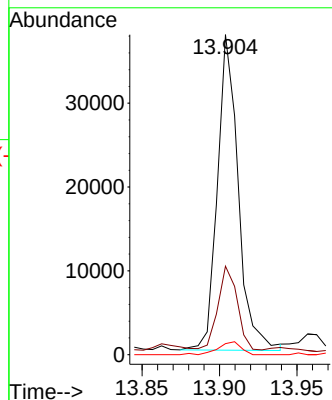
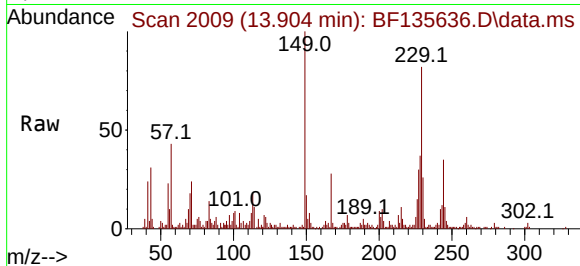
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.418 ng
RT: 13.904 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

Instrument :
BNA_F
ClientSampleId :
72-11939

Tgt Ion:149 Resp: 3518
Ion Ratio Lower Upper
149 100
167 27.6 21.9 32.9
279 3.5 3.3 4.9

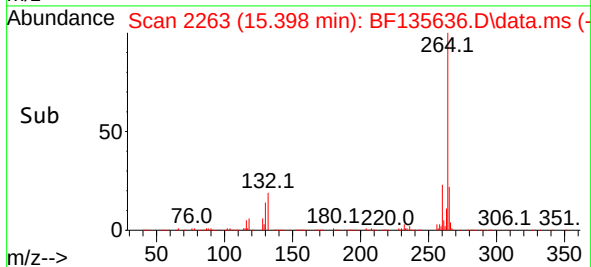
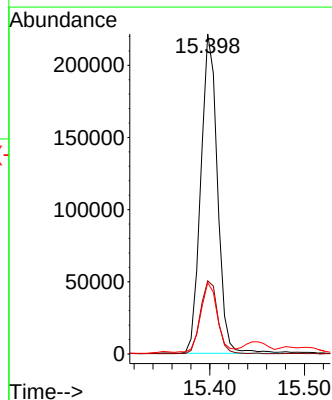
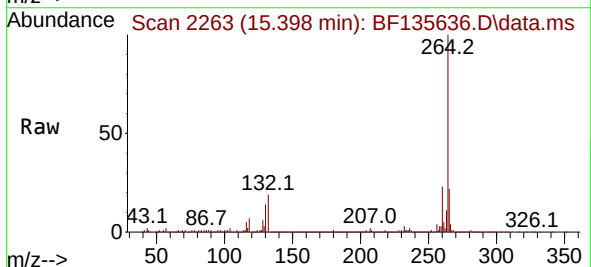
Manual Integrations
APPROVED

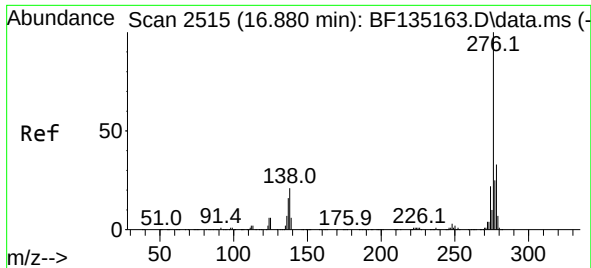
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

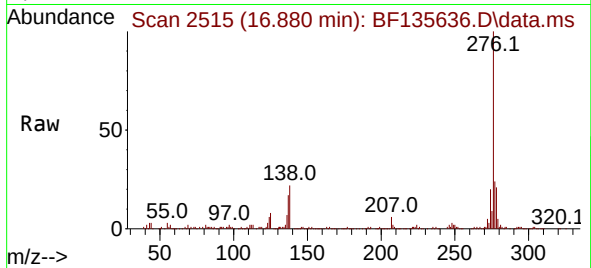
Tgt Ion:264 Resp: 271235
Ion Ratio Lower Upper
264 100
260 22.9 19.8 29.6
265 22.3 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.479 ng
RT: 16.880 min Scan# 2114
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

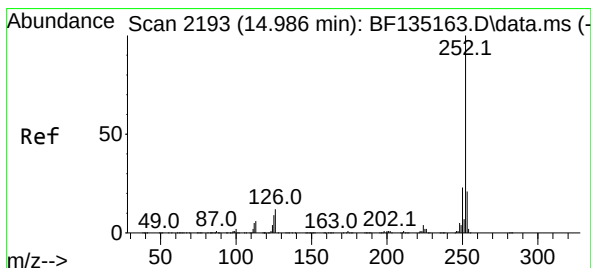
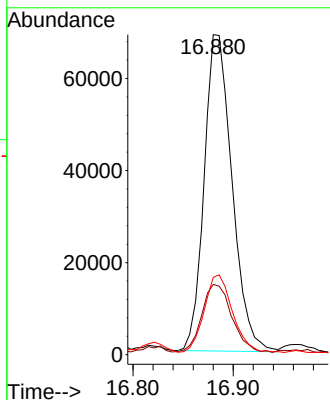
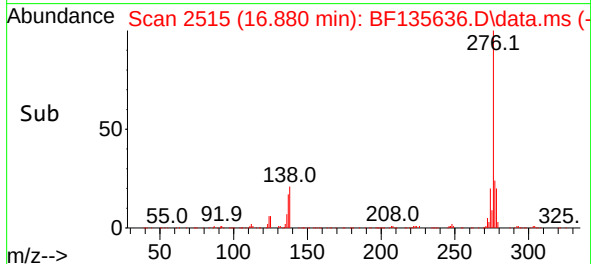
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:276 Resp: 133014
Ion Ratio Lower Upper
276 100
138 23.8 19.2 28.8
277 24.9 19.7 29.5

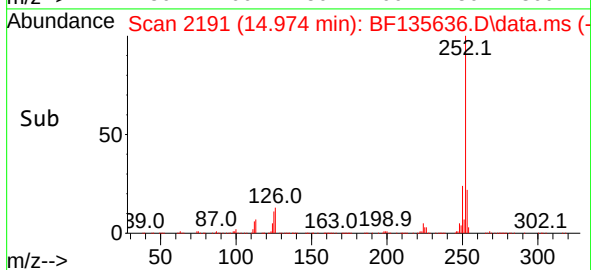
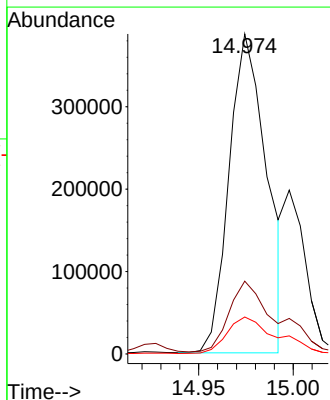
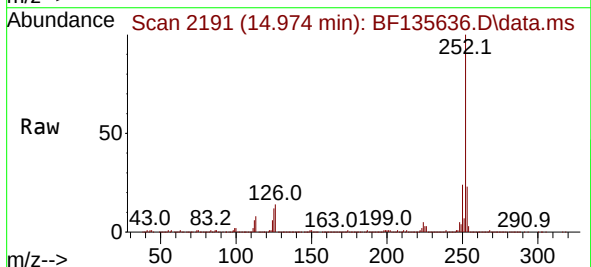
Manual Integrations
APPROVED

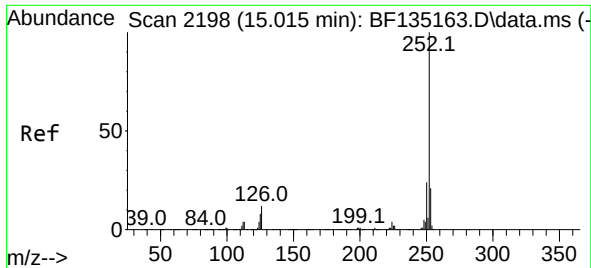
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#88
Benzo(b)fluoranthene
Concen: 36.646 ng m
RT: 14.974 min Scan# 2191
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

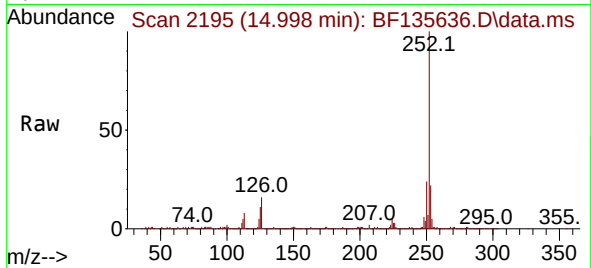
Tgt Ion:252 Resp: 538068
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 11.5 7.1 10.7#





#89
Benzo(k)fluoranthene
Concen: 10.589 ng m
RT: 14.998 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

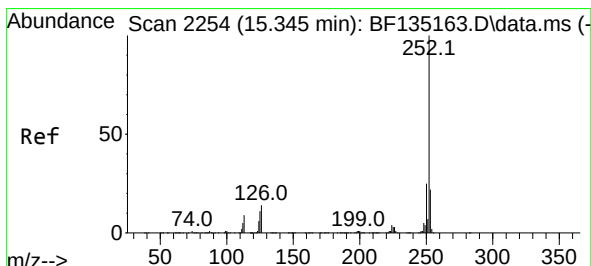
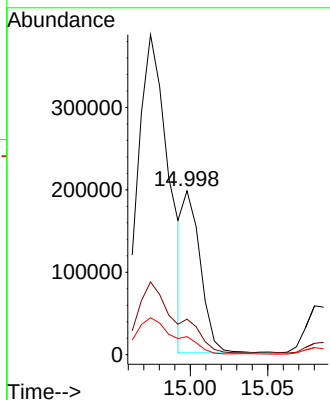
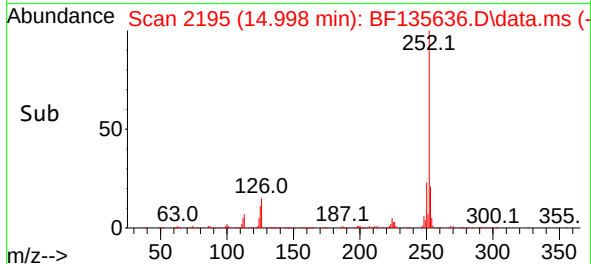
Instrument :
BNA_F
ClientSampleId :
72-11939



Tgt Ion:252 Resp: 15358
Ion Ratio Lower Upper
252 100
253 21.7 17.4 26.0
125 11.0 7.2 10.8

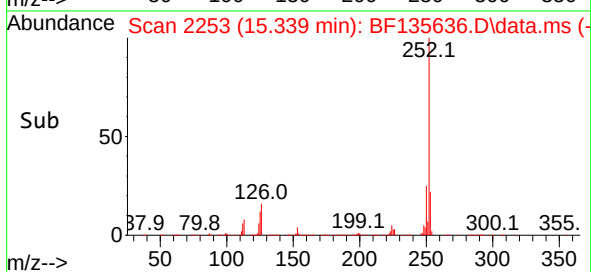
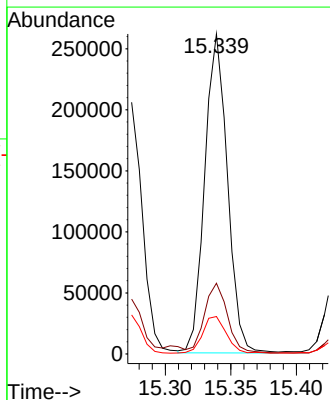
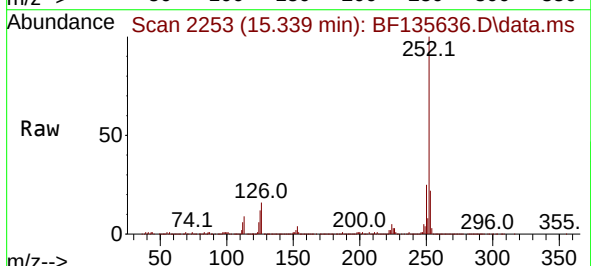
Manual Integrations
APPROVED

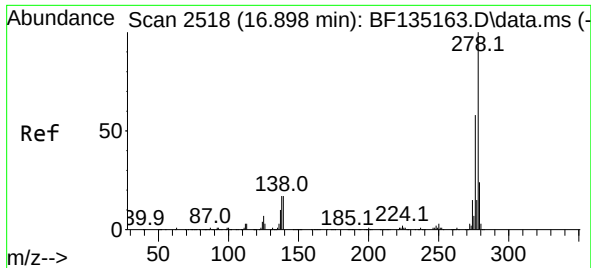
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#90
Benzo(a)pyrene
Concen: 22.511 ng
RT: 15.339 min Scan# 2253
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

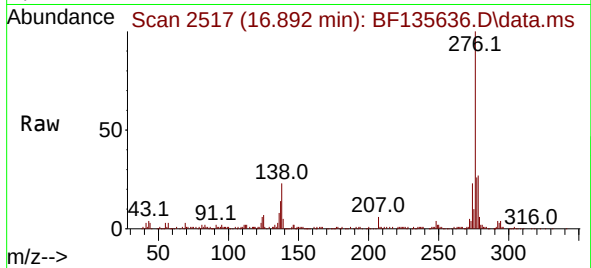
Tgt Ion:252 Resp: 315205
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 11.7 9.2 13.8





#91
Dibenzo(a,h)anthracene
Concen: 2.569 ng
RT: 16.892 min Scan# 2518
Delta R.T. 0.012 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57

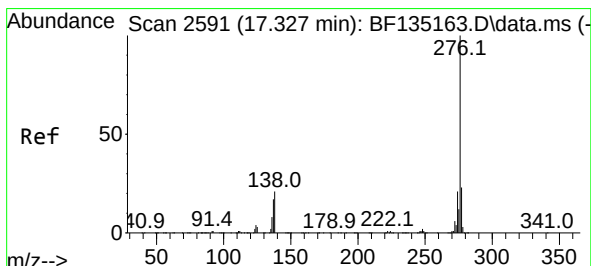
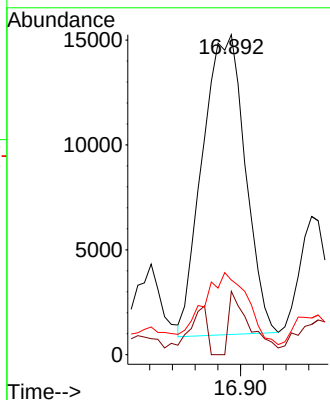
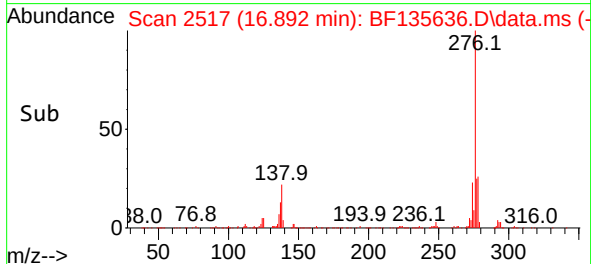
Instrument :
BNA_F
ClientSampleId :
72-11939



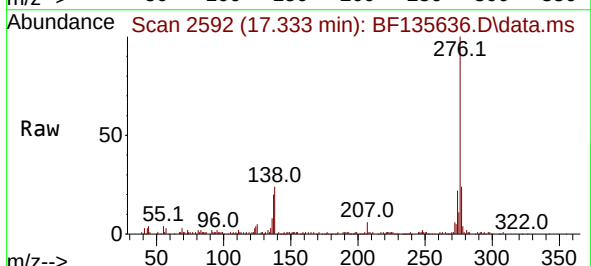
Tgt Ion:278 Resp: 3738
Ion Ratio Lower Upper
278 100
139 19.8 13.4 20.0
279 23.3 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#92
Benzo(g,h,i)perylene
Concen: 7.601 ng
RT: 17.333 min Scan# 2592
Delta R.T. 0.018 min
Lab File: BF135636.D
Acq: 06 Oct 2023 18:57



Tgt Ion:276 Resp: 115516
Ion Ratio Lower Upper
276 100
277 23.9 18.8 28.2
138 23.5 16.9 25.3

