

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092123\
 Data File : BF135381.D
 Acq On : 21 Sep 2023 15:35
 Operator : CG\JU
 Sample : 04501-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Sep 22 05:56:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/27/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	155477	20.000	ng	0.00
21) Naphthalene-d8	8.033	136	563379	20.000	ng	#-0.01
39) Acenaphthene-d10	9.792	164	238392	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	369376	20.000	ng	# 0.00
76) Chrysene-d12	13.945	240	271368	20.000	ng	0.00
86) Perylene-d12	15.409	264	243908	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	780962	81.697	ng	0.00
7) Phenol-d6	6.404	99	987883	81.272	ng	0.00
23) Nitrobenzene-d5	7.322	82	598422	57.709	ng	-0.01
42) 2,4,6-Tribromophenol	10.586	330	157469	66.470	ng	-0.01
45) 2-Fluorobiphenyl	9.116	172	956769	60.551	ng	-0.01
79) Terphenyl-d14	12.880	244	729471	41.671	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.057	128	76755	2.804	ng	99
37) 2-Methylnaphthalene	8.751	142	86242	4.687	ng	99
38) 1-Methylnaphthalene	8.845	142	86114	4.999	ng	100
49) Acenaphthylene	9.651	152	82672	3.742	ng	# 97
52) Acenaphthene	9.827	154	122392	9.379	ng	98
55) Dibenzofuran	9.998	168	109718	5.510	ng	# 97
58) Fluorene	10.345	166	233835	15.274	ng	99
71) Phenanthrene	11.316	178	1187805	67.992	ng	98
72) Anthracene	11.363	178	271941	15.144	ng	98
73) Carbazole	11.521	167	109594	6.704	ng	100
75) Fluoranthene	12.510	202	1392201	76.480	ng	98
78) Pyrene	12.745	202	1301629	50.380	ng	99
81) Benzo(a)anthracene	13.933	228	563068	32.133	ng	96
83) Chrysene	13.974	228	580549	33.323	ng	98
87) Indeno(1,2,3-cd)pyrene	16.892	276	168524	10.538	ng	98
88) Benzo(b)fluoranthene	14.986	252	495249m	37.509	ng	
89) Benzo(k)fluoranthene	15.009	252	163486m	12.535	ng	
90) Benzo(a)pyrene	15.351	252	347061	27.563	ng	96
91) Dibenzo(a,h)anthracene	16.903	278	45868	3.505	ng	# 87
92) Benzo(g,h,i)perylene	17.339	276	172075	12.592	ng	# 94

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

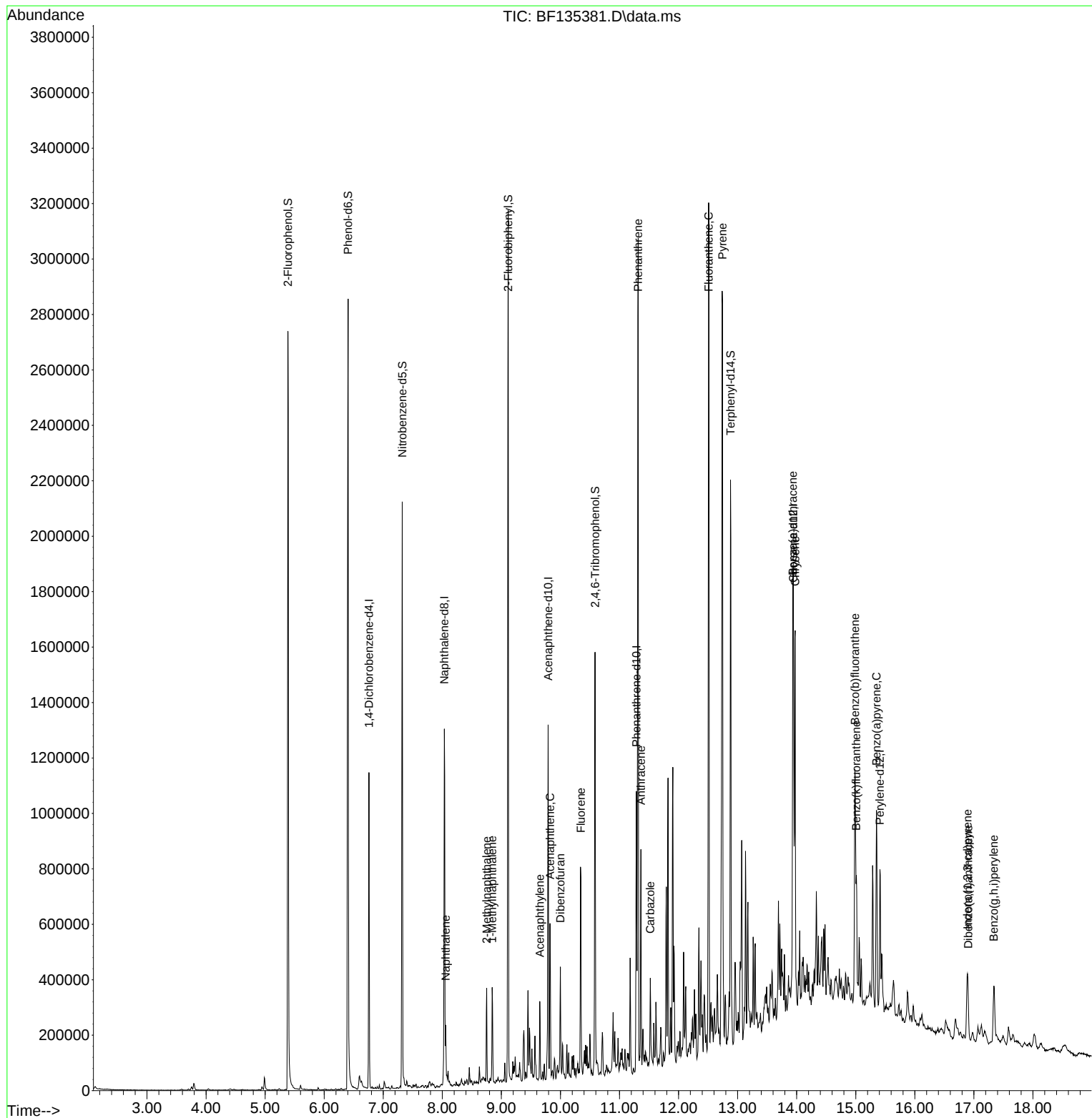
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092123\
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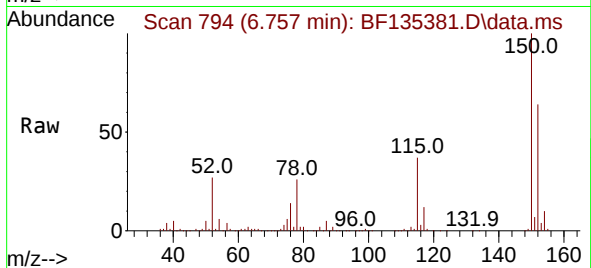
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

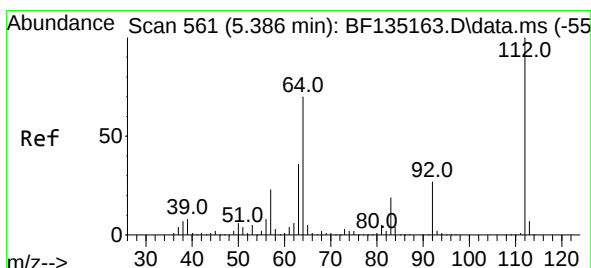
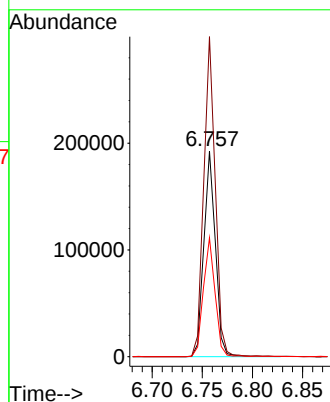
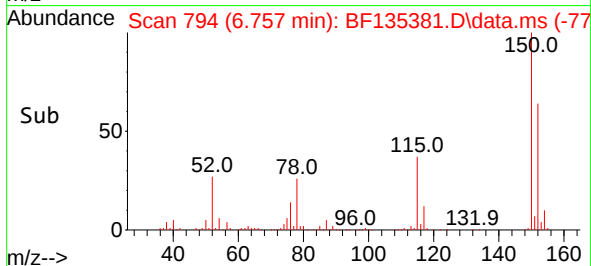
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:152 Resp: 15547
Ion Ratio Lower Upper
152 100
150 155.7 127.8 191.6
115 57.8 49.8 74.8

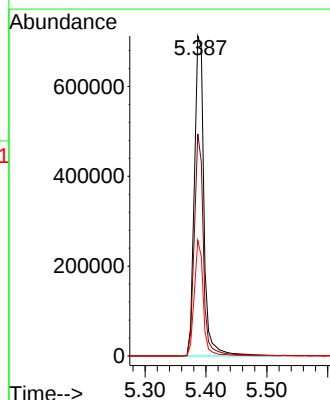
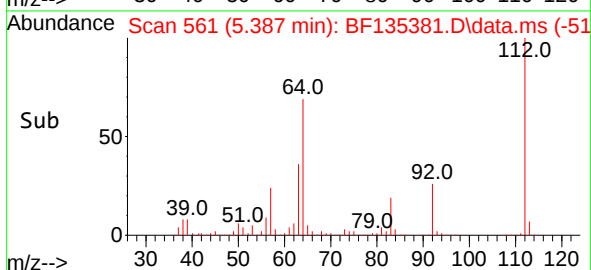
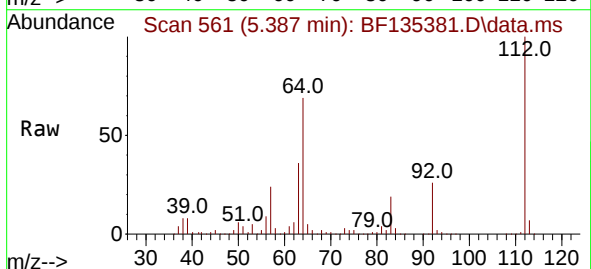
Manual Integrations
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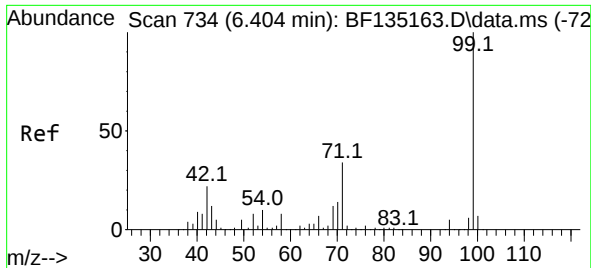
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#5
2-Fluorophenol
Concen: 81.697 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

Tgt Ion:112 Resp: 780962
Ion Ratio Lower Upper
112 100
64 69.4 55.9 83.9
63 36.1 29.0 43.6





#7

Phenol-d6

Concen: 81.272 ng

RT: 6.404 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

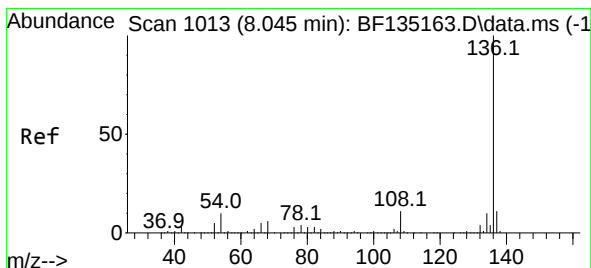
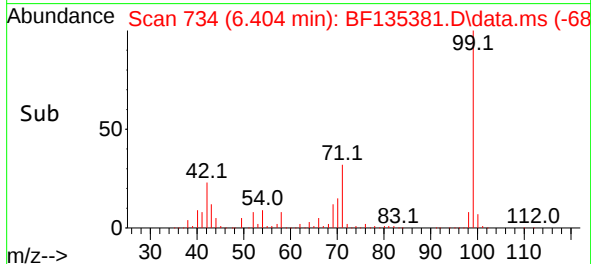
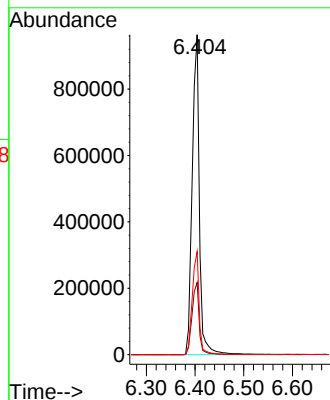
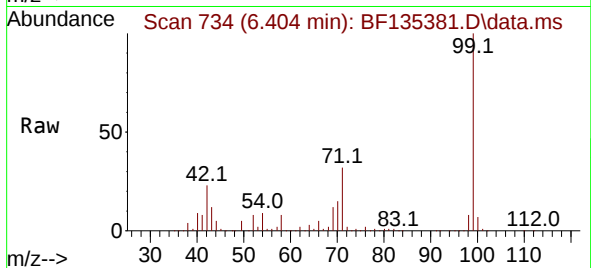
Tgt Ion: 99 Resp: 98788

Ion	Ratio	Lower	Upper
99	100		
42	22.6	17.9	26.9
71	32.3	27.0	40.6

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.033 min Scan# 1011

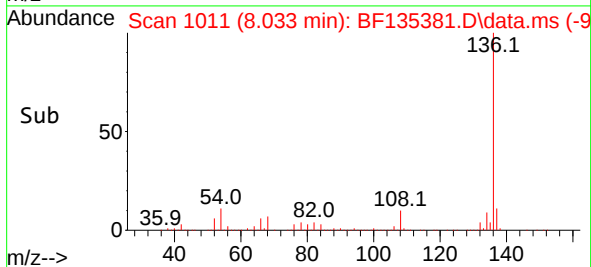
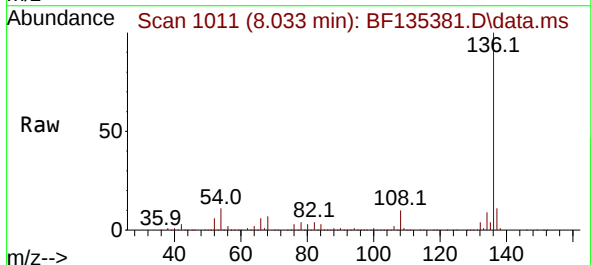
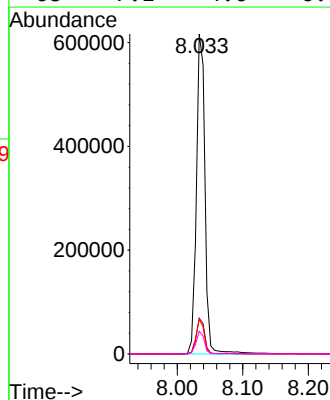
Delta R.T. -0.012 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Tgt Ion:136 Resp: 563379

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	11.0	7.7	11.5
68	7.1	4.6	6.8





#23

Nitrobenzene-d5

Concen: 57.709 ng

RT: 7.322 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

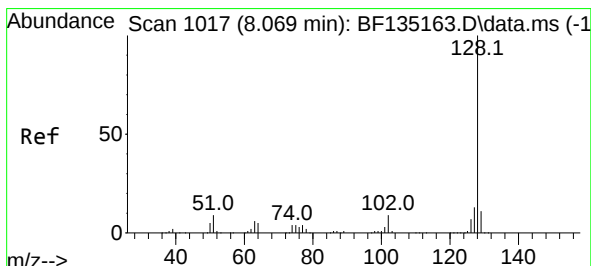
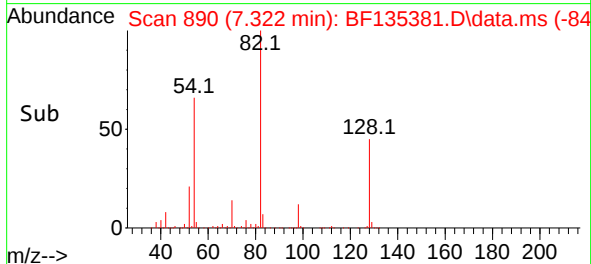
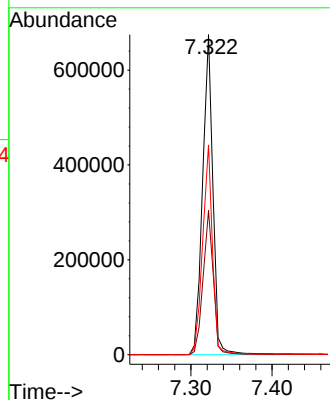
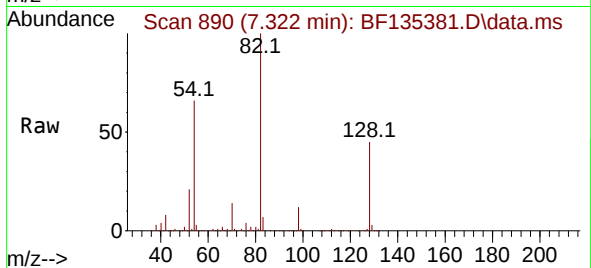
Tgt Ion: 82 Resp: 59842

Ion	Ratio	Lower	Upper
82	100		
128	45.1	35.8	53.6
54	65.6	50.6	76.0

Manual Integrations

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#31

Naphthalene

Concen: 2.804 ng

RT: 8.057 min Scan# 1015

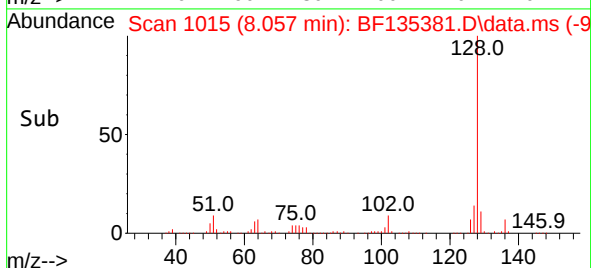
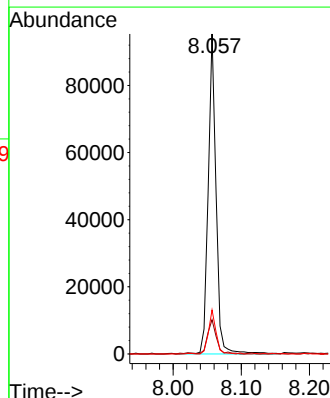
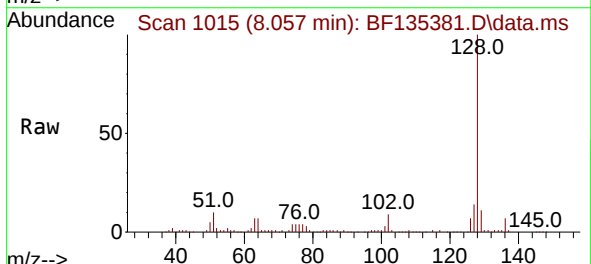
Delta R.T. -0.012 min

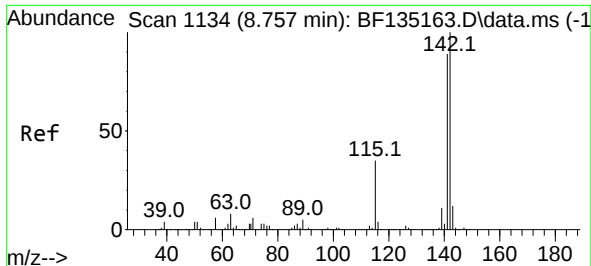
Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Tgt Ion:128 Resp: 76755

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.8	10.7	16.1





#37

2-Methylnaphthalene

Concen: 4.687 ng

RT: 8.751 min Scan# 1148

Delta R.T. -0.006 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:142 Resp: 8624

Ion Ratio Lower Upper

142 100

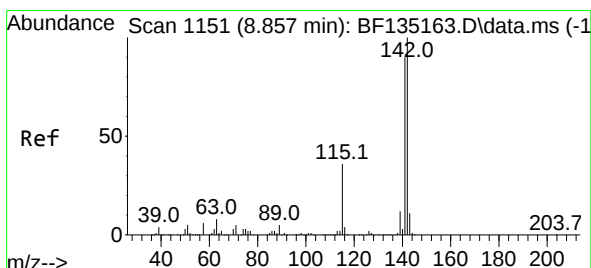
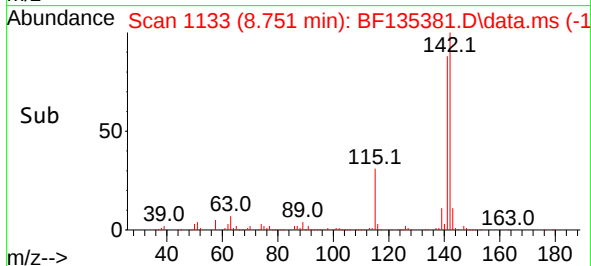
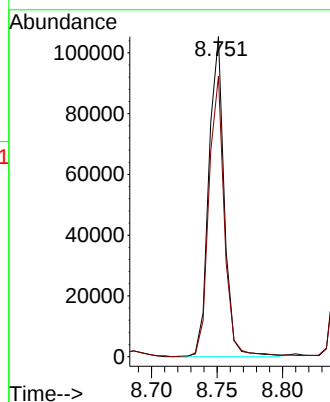
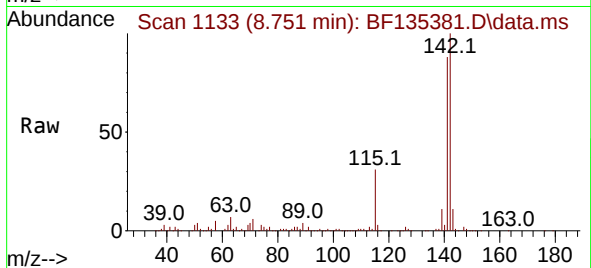
141 87.7 71.0 106.6

Manual Integrations

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Supervised By :mohammad ahmed 09/27/2023



#38

1-Methylnaphthalene

Concen: 4.999 ng

RT: 8.845 min Scan# 1149

Delta R.T. -0.012 min

Lab File: BF135381.D

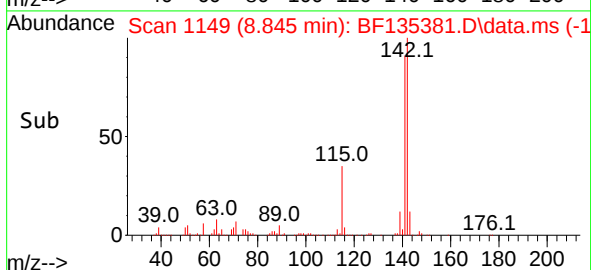
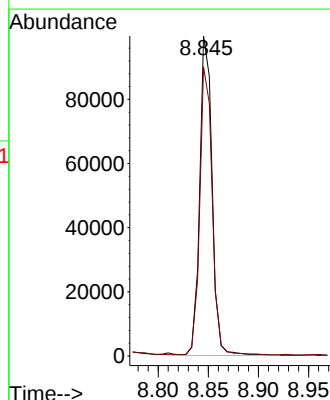
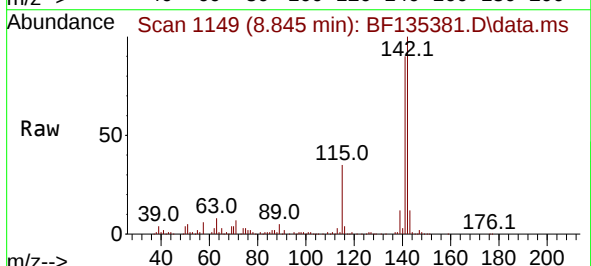
Acq: 21 Sep 2023 15:35

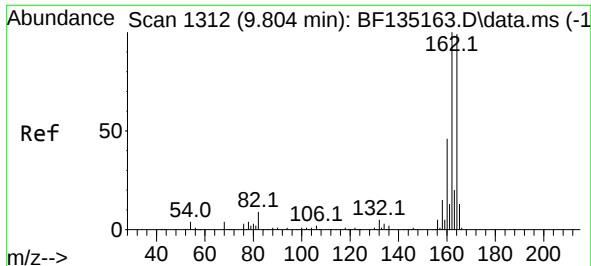
Tgt Ion:142 Resp: 86114

Ion Ratio Lower Upper

142 100

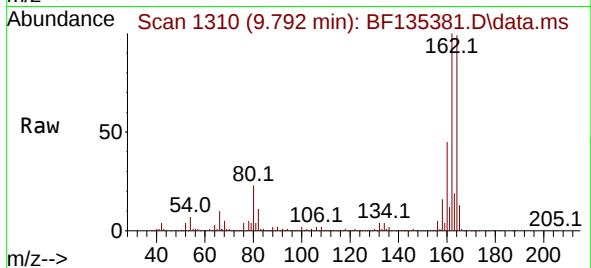
141 90.4 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

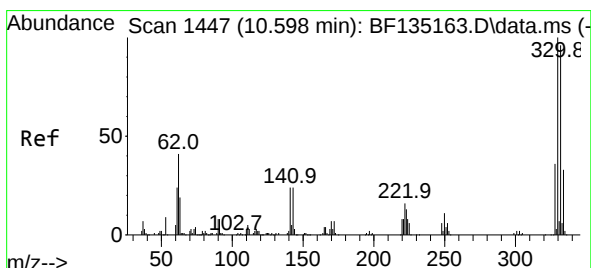
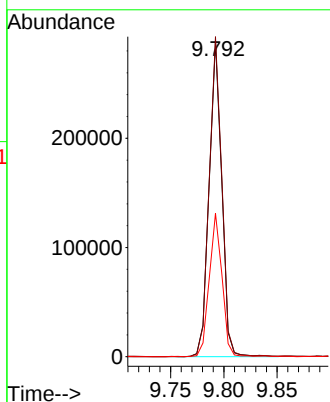
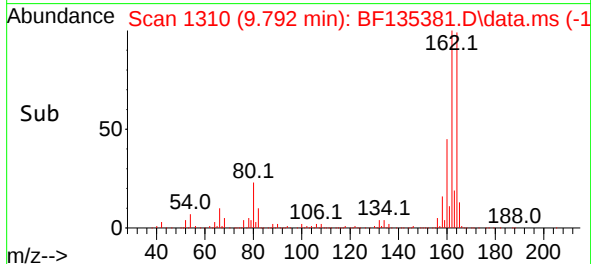
Instrument :
BNA_F
ClientSampleId :
TP-2



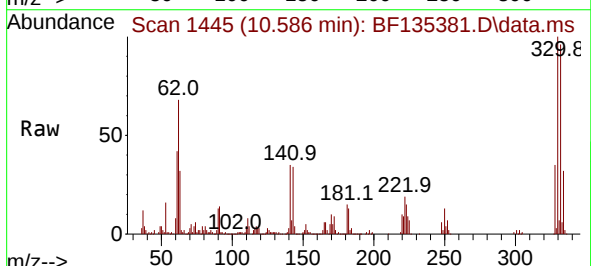
Tgt Ion:164 Resp: 238392
Ion Ratio Lower Upper
164 100
162 101.5 81.0 121.4
160 45.5 37.0 55.4

Manual Integrations
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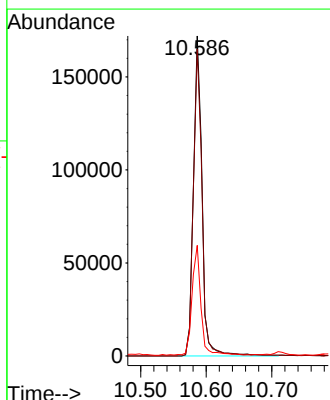
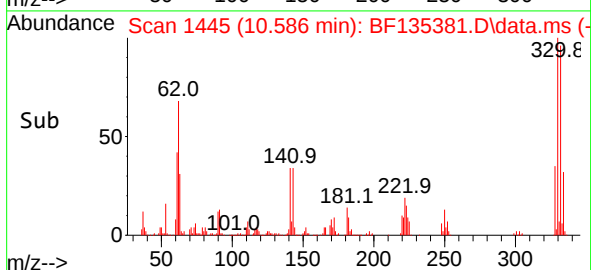
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023

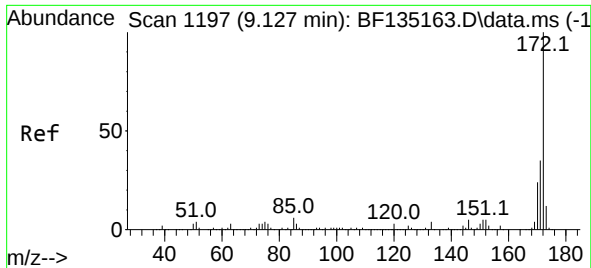


#42
2,4,6-Tribromophenol
Concen: 66.470 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35



Tgt Ion:330 Resp: 157469
Ion Ratio Lower Upper
330 100
332 96.6 77.3 115.9
141 35.1 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 60.551 ng

RT: 9.116 min Scan# 1195

Delta R.T. -0.012 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:172 Resp: 956769

Ion Ratio Lower Upper

172 100

171 34.4 28.4 42.6

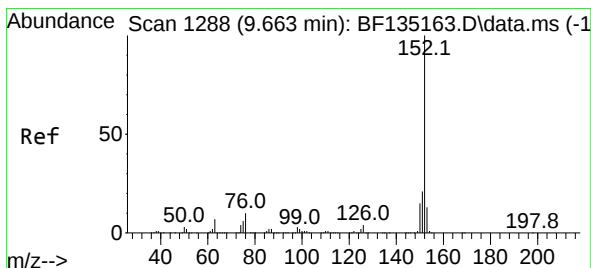
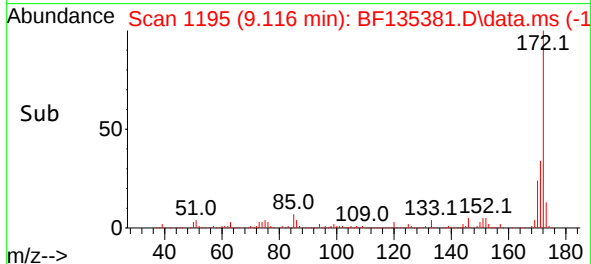
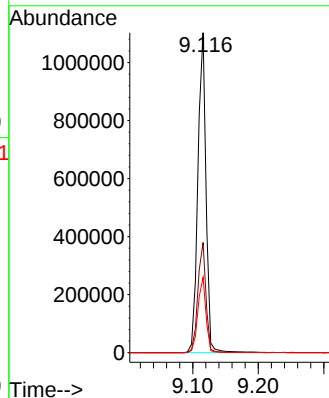
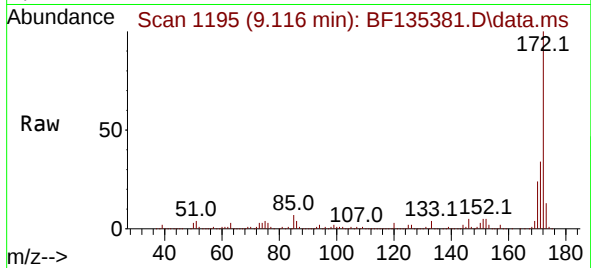
170 23.6 19.0 28.4

Manual Integrations

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Supervised By :mohammad ahmed 09/27/2023



#49

Acenaphthylene

Concen: 3.742 ng

RT: 9.651 min Scan# 1286

Delta R.T. -0.012 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

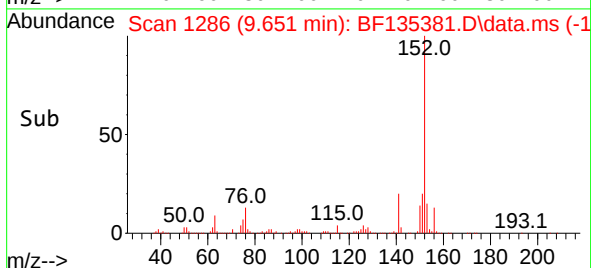
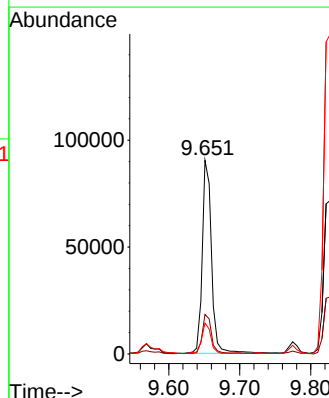
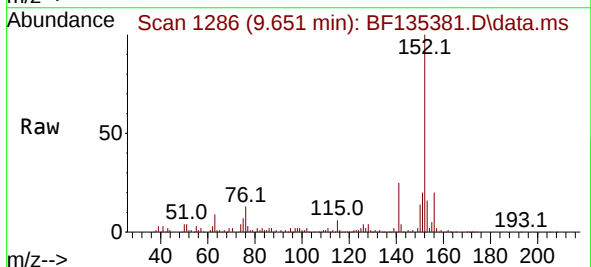
Tgt Ion:152 Resp: 82672

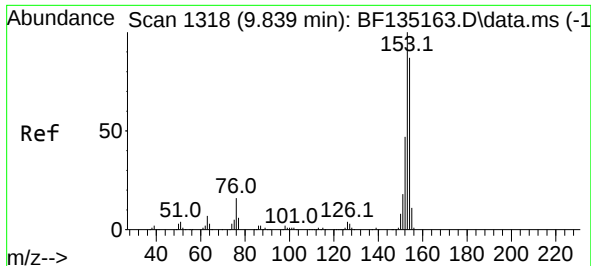
Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

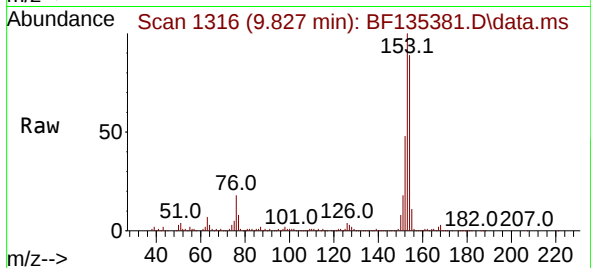
153 16.0 10.4 15.6#





#52
Acenaphthene
Concen: 9.379 ng
RT: 9.827 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

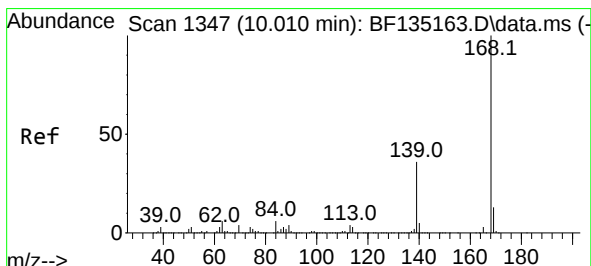
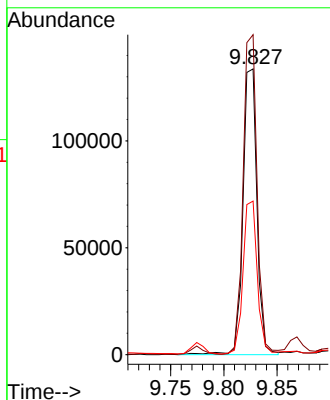
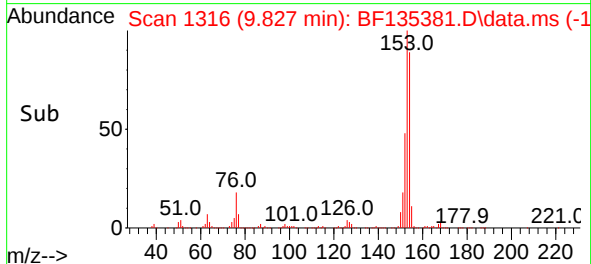
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:154 Resp: 122392
Ion Ratio Lower Upper
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153 112.0 92.1 138.1
152 53.7 43.1 64.7

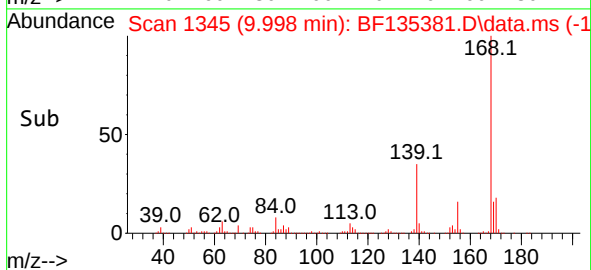
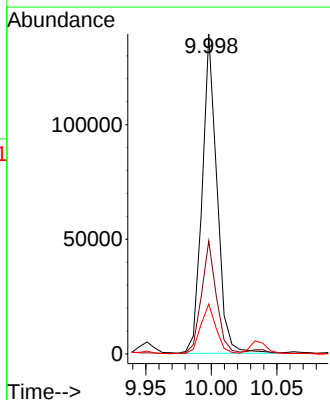
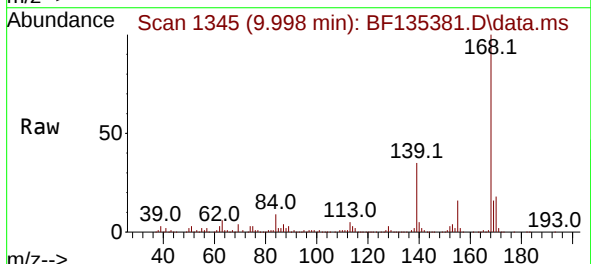
Manual Integrations
APPROVED

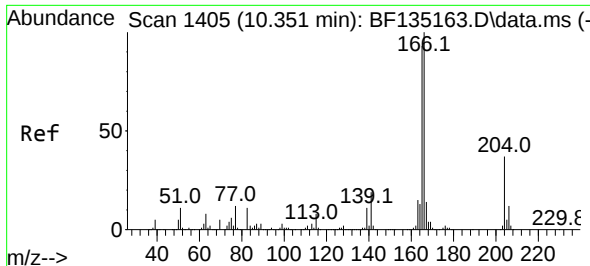
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#55
Dibenzofuran
Concen: 5.510 ng
RT: 9.998 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

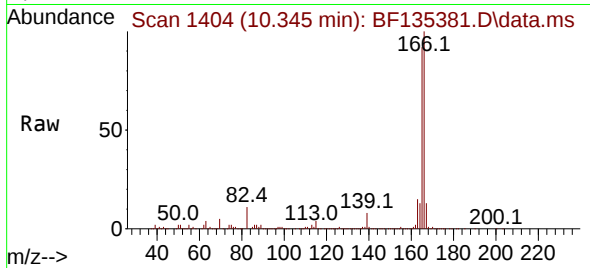
Tgt Ion:168 Resp: 109718
Ion Ratio Lower Upper
168 100
139 35.3 29.0 43.6
169 15.6 10.4 15.6#





#58
Fluorene
Concen: 15.274 ng
RT: 10.345 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

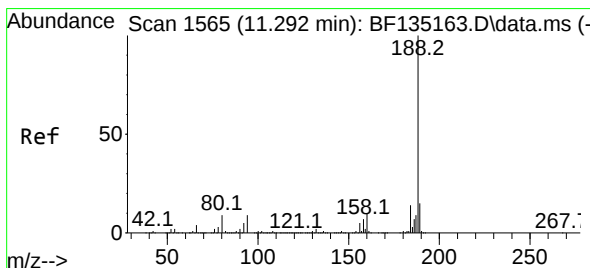
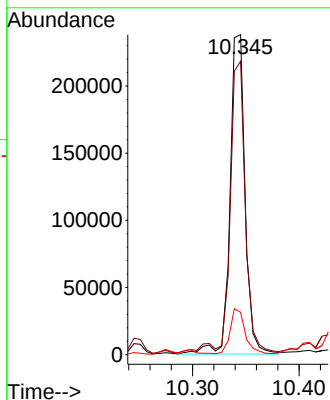
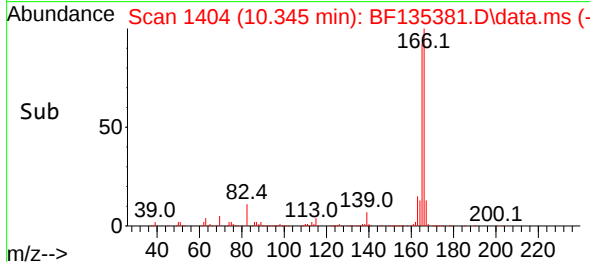
Instrument :
BNA_F
ClientSampleId :
TP-2



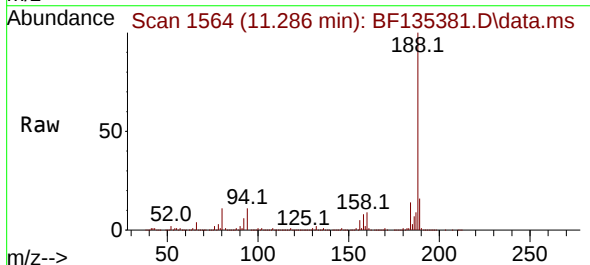
Tgt Ion:166 Resp: 233835
Ion Ratio Lower Upper
166 100
165 91.7 74.3 111.5
167 13.2 10.9 16.3

Manual Integrations
APPROVED

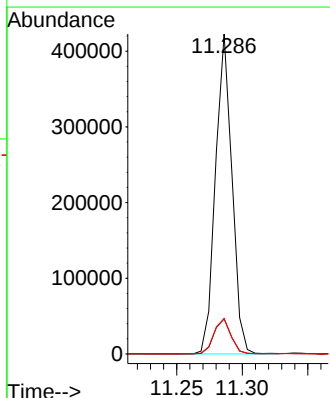
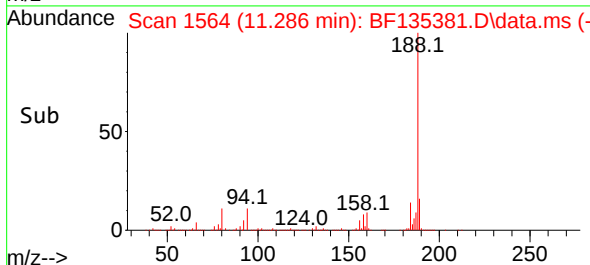
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023

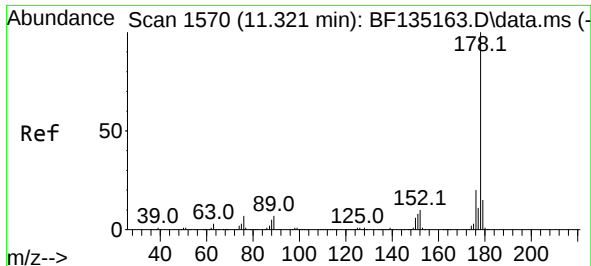


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35



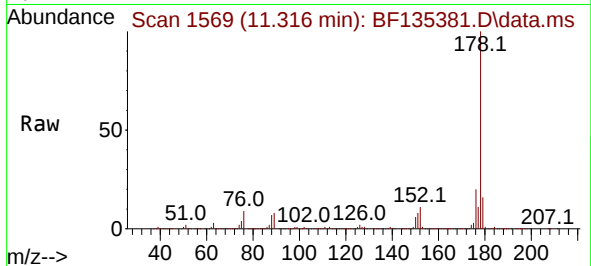
Tgt Ion:188 Resp: 369376
Ion Ratio Lower Upper
188 100
94 10.9 7.0 10.6#
80 11.1 7.5 11.3





#71
Phenanthrene
Concen: 67.992 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

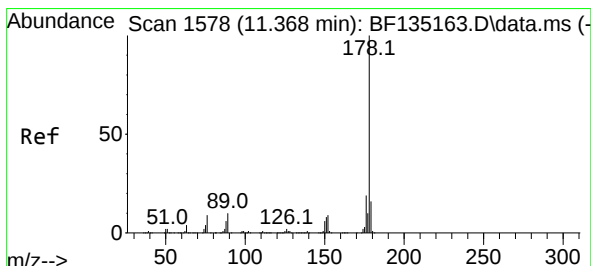
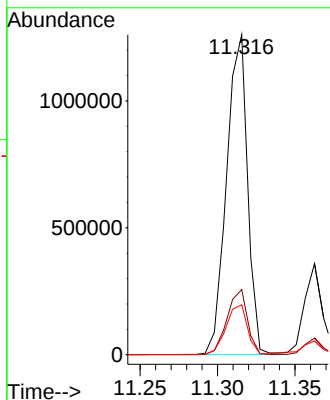
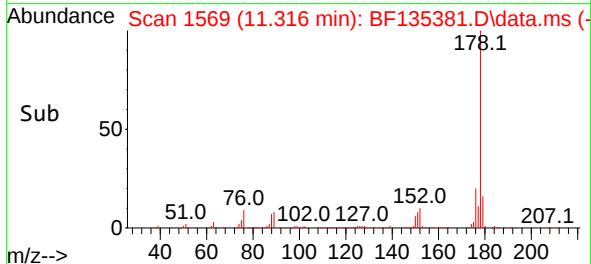
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:178 Resp: 118780
Ion Ratio Lower Upper
178 100
176 20.3 15.6 23.4
179 15.6 12.0 18.0

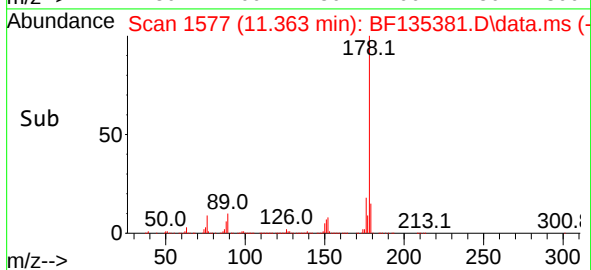
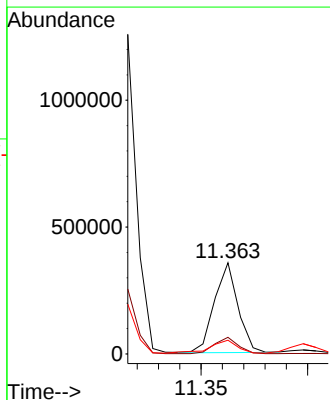
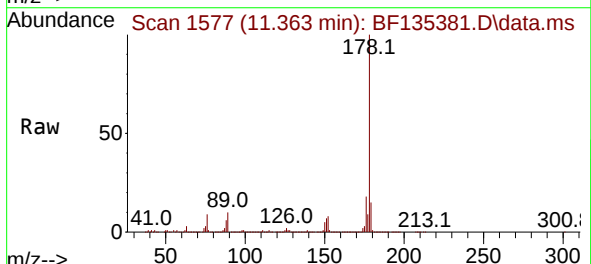
Manual Integrations
APPROVED

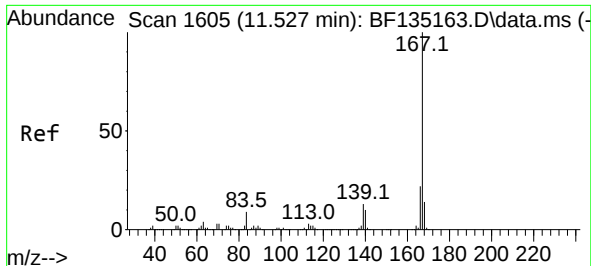
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#72
Anthracene
Concen: 15.144 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

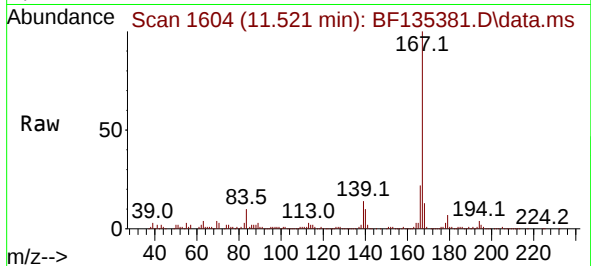
Tgt Ion:178 Resp: 271941
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.0 12.6 19.0





#73
 Carbazole
 Concen: 6.704 ng
 RT: 11.521 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135381.D
 Acq: 21 Sep 2023 15:35

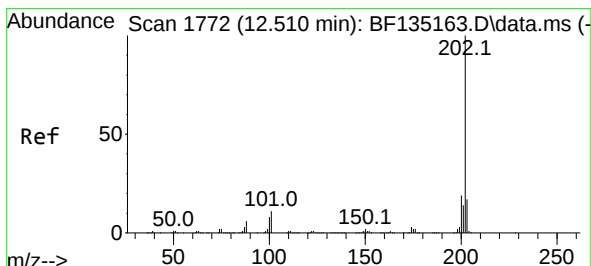
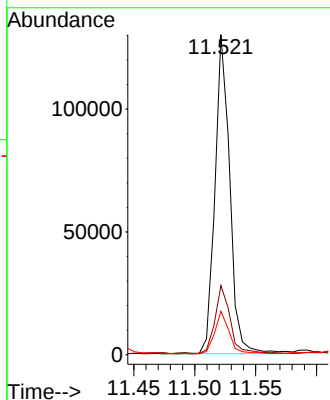
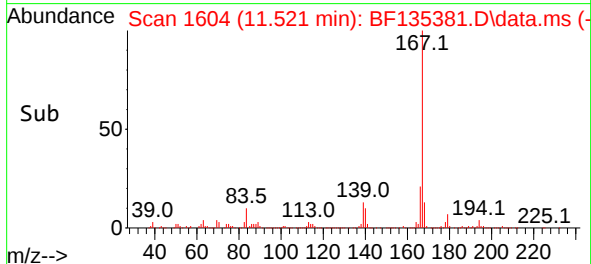
Instrument :
 BNA_F
 ClientSampleId :
 TP-2



Tgt Ion:167 Resp: 109594
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.0
 139 13.5 10.6 15.8

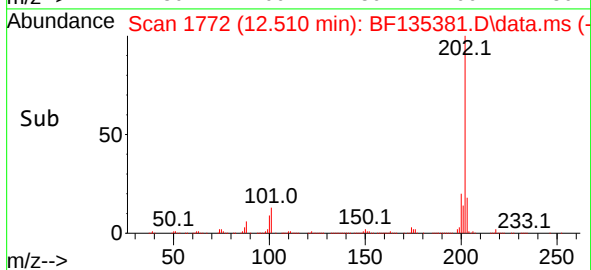
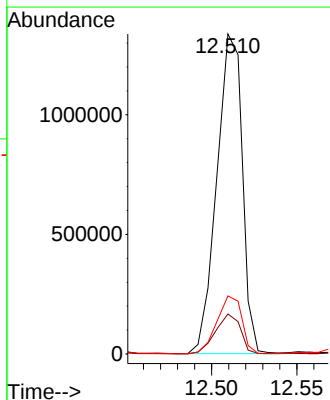
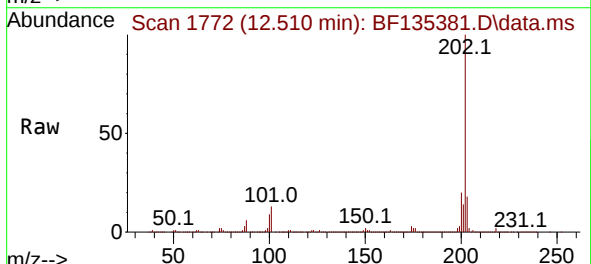
Manual Integrations
 APPROVED

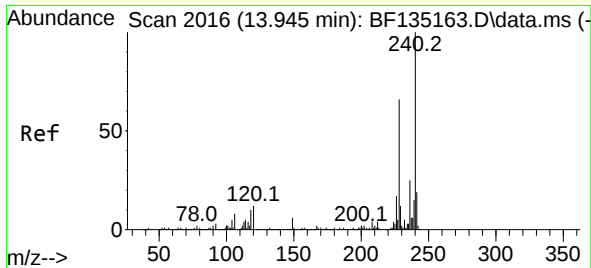
Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/27/2023



#75
 Fluoranthene
 Concen: 76.480 ng
 RT: 12.510 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: BF135381.D
 Acq: 21 Sep 2023 15:35

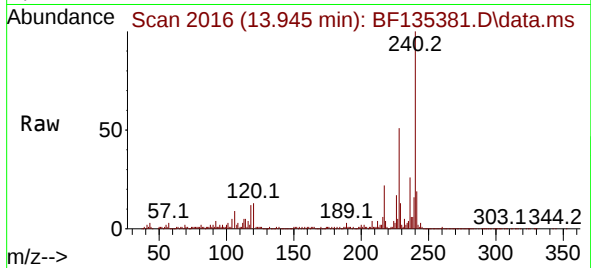
Tgt Ion:202 Resp: 1392201
 Ion Ratio Lower Upper
 202 100
 101 12.5 0.0 31.3
 203 18.1 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

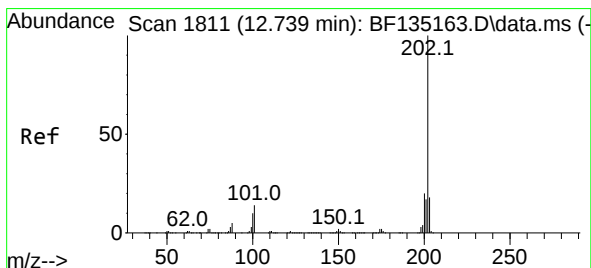
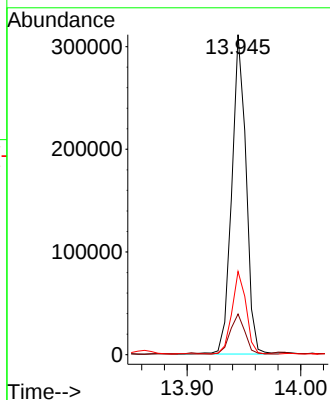
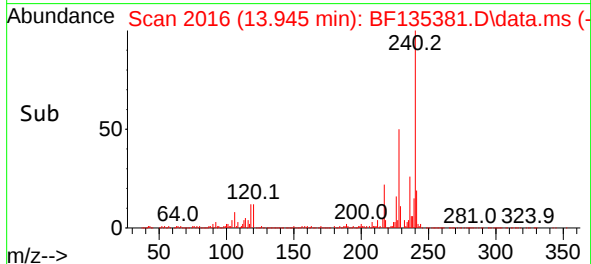
Instrument :
BNA_F
ClientSampleId :
TP-2



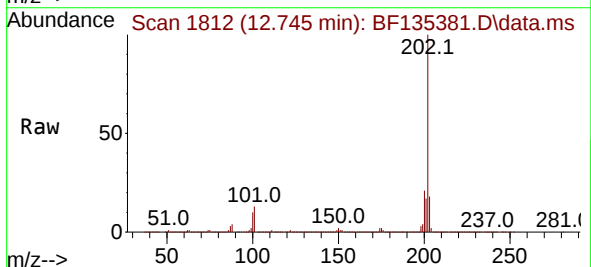
Tgt Ion:240 Resp: 271368
Ion Ratio Lower Upper
240 100
120 12.7 9.4 14.2
236 26.0 19.8 29.8

Manual Integrations
APPROVED

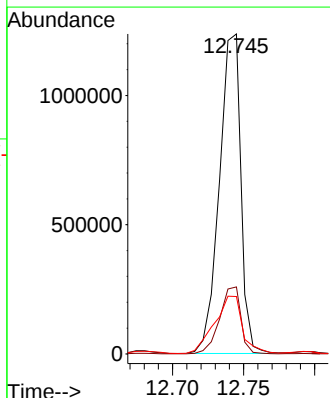
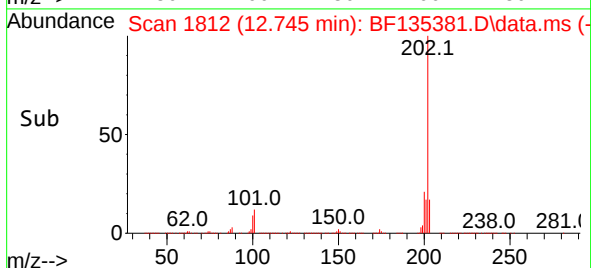
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023

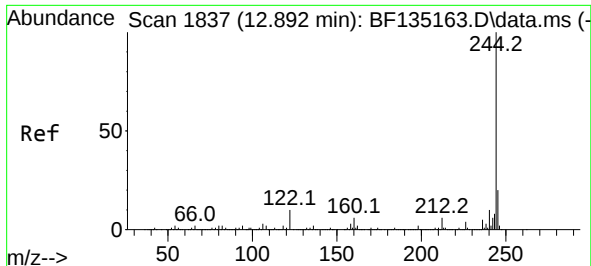


#78
Pyrene
Concen: 50.380 ng
RT: 12.745 min Scan# 1812
Delta R.T. 0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35



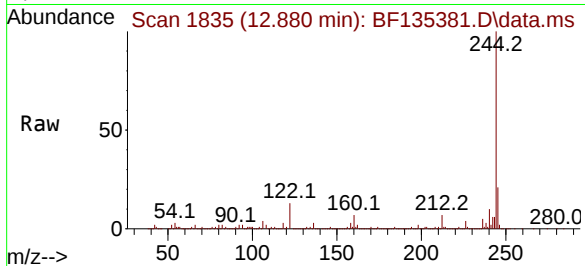
Tgt Ion:202 Resp: 1301629
Ion Ratio Lower Upper
202 100
200 21.0 16.2 24.2
203 17.9 14.2 21.4





#79
Terphenyl-d14
Concen: 41.671 ng
RT: 12.880 min Scan# 1835
Delta R.T. -0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

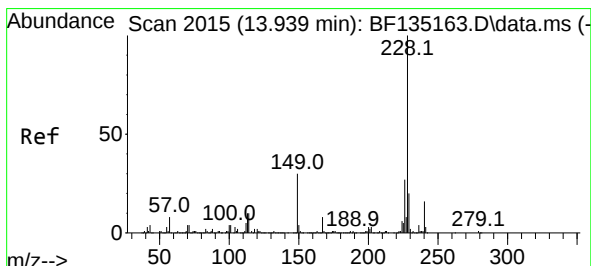
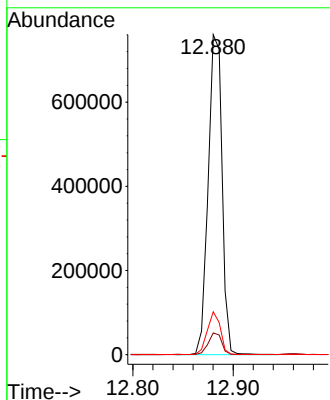
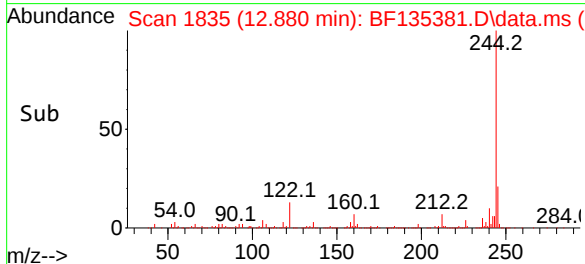
Instrument :
BNA_F
ClientSampleId :
TP-2



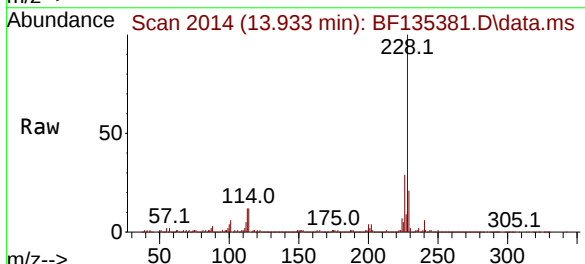
Tgt Ion:244 Resp: 72947
Ion Ratio Lower Upper
244 100
212 6.8 5.1 7.7
122 13.4 7.9 11.9

Manual Integrations
APPROVED

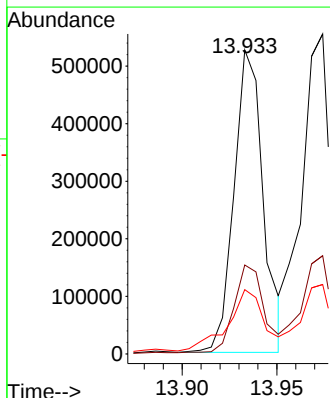
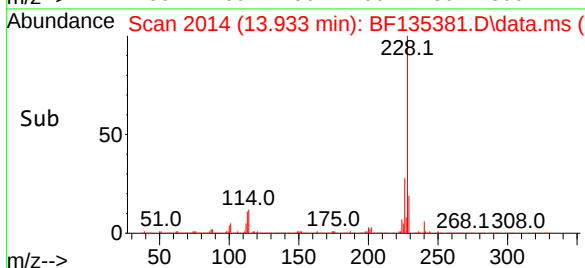
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023

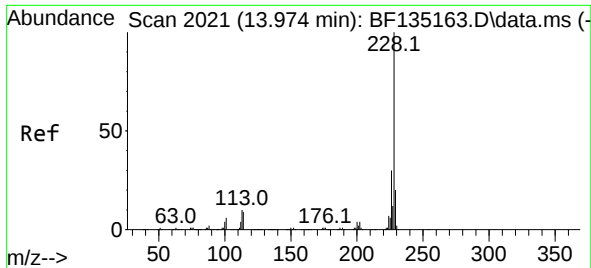


#81
Benzo(a)anthracene
Concen: 32.133 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35



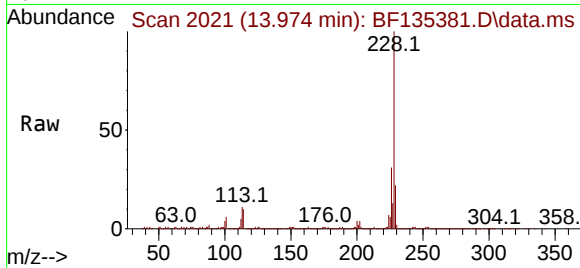
Tgt Ion:228 Resp: 563068
Ion Ratio Lower Upper
228 100
226 29.3 21.7 32.5
229 21.2 15.8 23.8





#83
Chrysene
Concen: 33.323 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

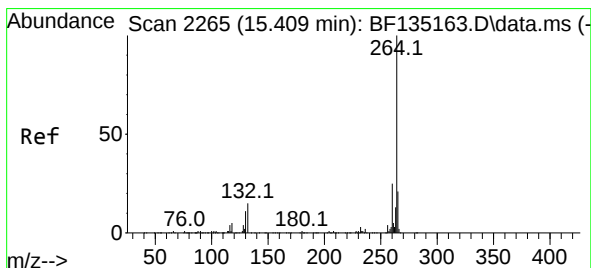
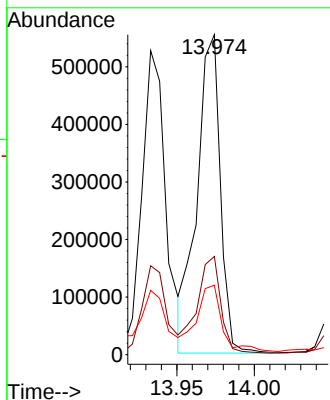
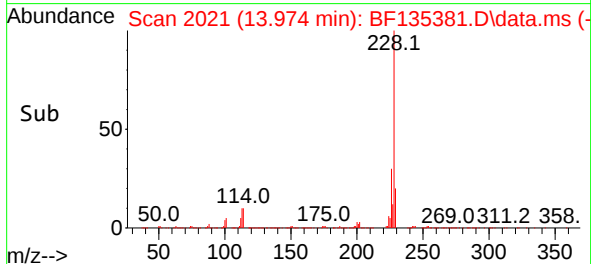
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:228 Resp: 580549
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 21.7 16.0 24.0

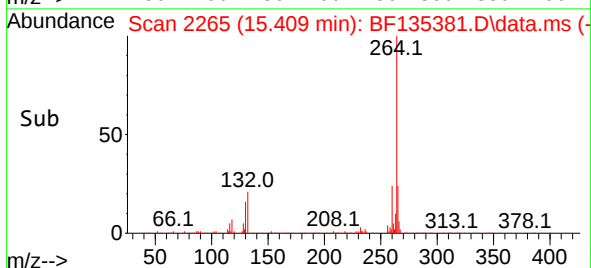
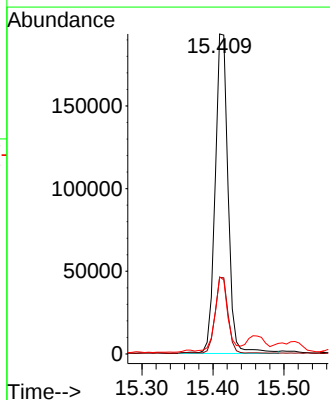
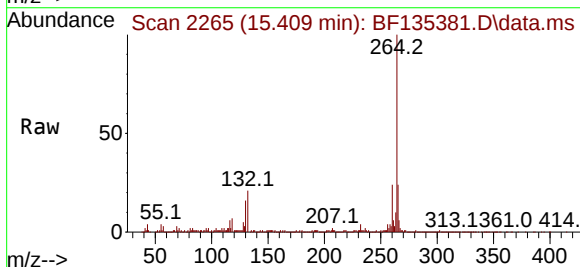
Manual Integrations
APPROVED

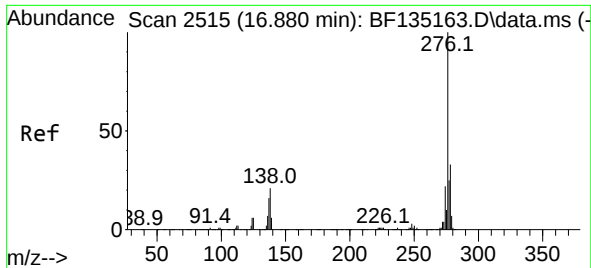
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

Tgt Ion:264 Resp: 243908
Ion Ratio Lower Upper
264 100
260 24.0 19.8 29.6
265 24.1 17.0 25.4





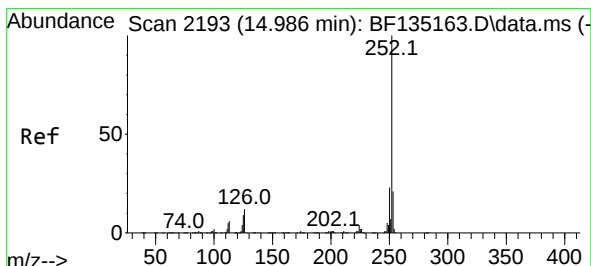
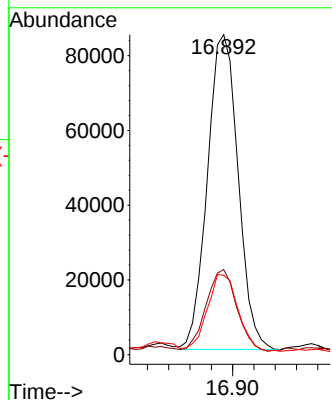
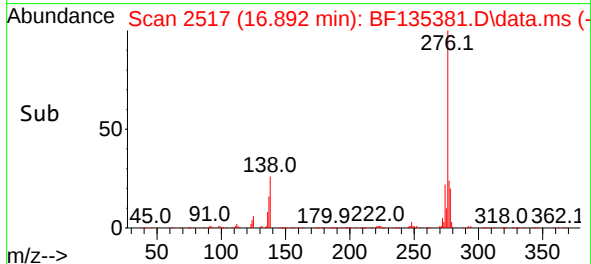
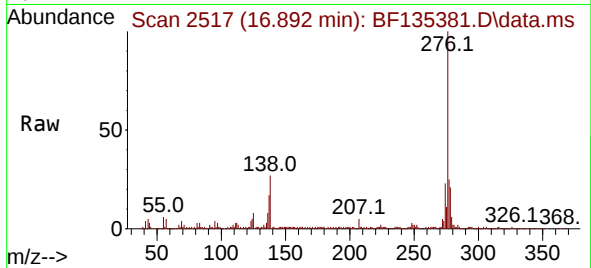
#87
Indeno(1,2,3-cd)pyrene
Concen: 10.538 ng
RT: 16.892 min Scan# 2117
Delta R.T. 0.012 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion:276 Resp: 168524
Ion Ratio Lower Upper
276 100
138 25.8 19.2 28.8
277 24.6 19.7 29.5

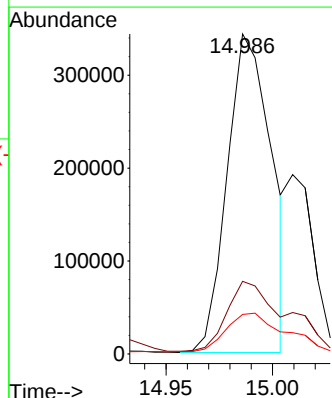
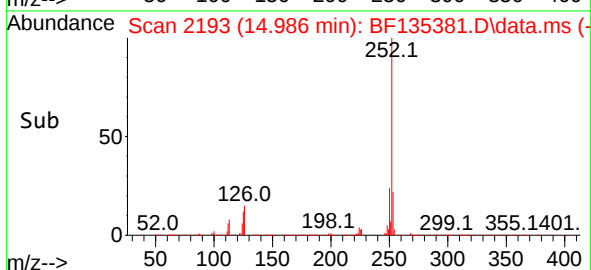
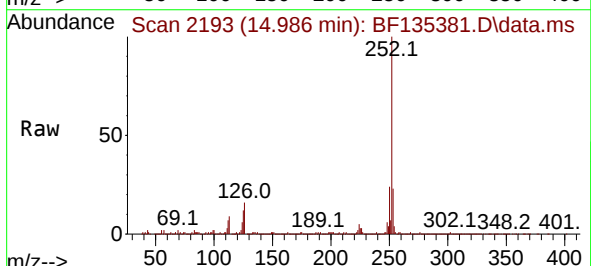
Manual Integrations
APPROVED

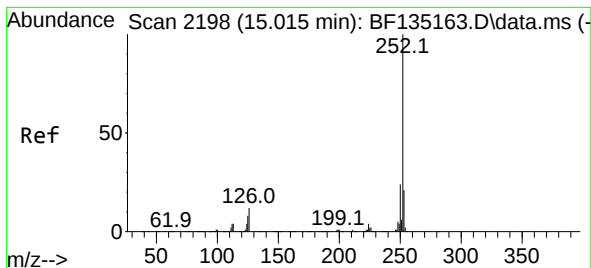
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#88
Benzo(b)fluoranthene
Concen: 37.509 ng m
RT: 14.986 min Scan# 2193
Delta R.T. 0.000 min
Lab File: BF135381.D
Acq: 21 Sep 2023 15:35

Tgt Ion:252 Resp: 495249
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 12.4 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 12.535 ng m

RT: 15.009 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:252 Resp: 163480

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

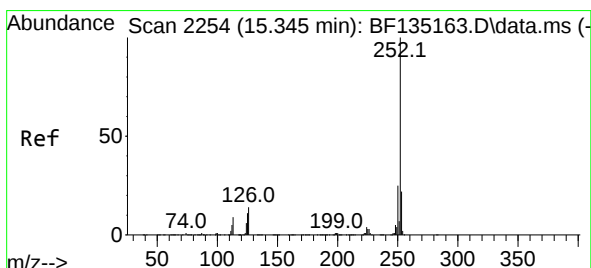
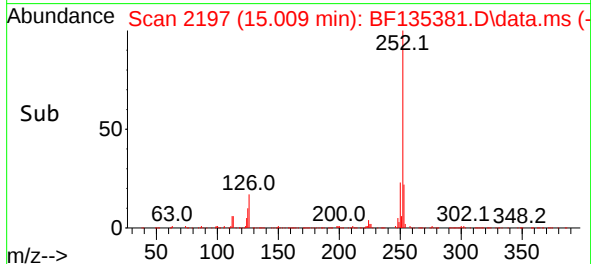
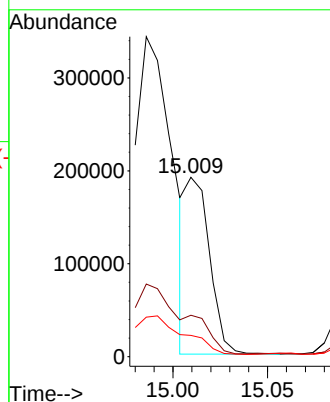
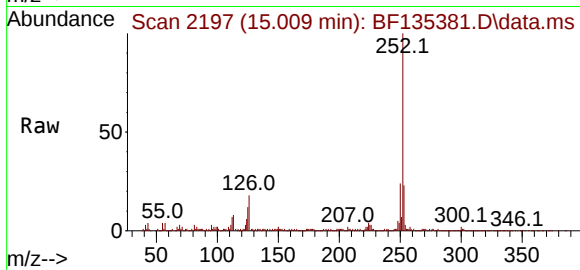
125 11.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/22/2023

Supervised By :mohammad ahmed 09/27/2023



#90

Benzo(a)pyrene

Concen: 27.563 ng

RT: 15.351 min Scan# 2255

Delta R.T. 0.006 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

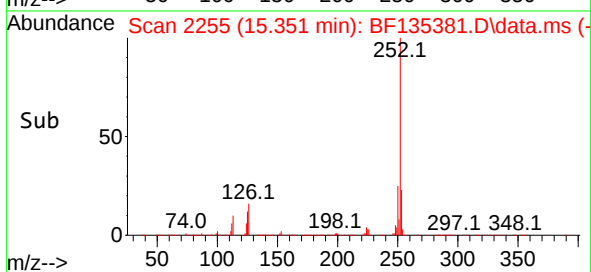
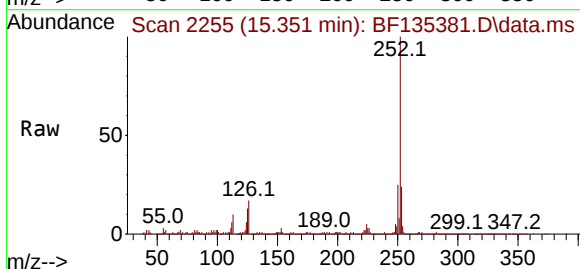
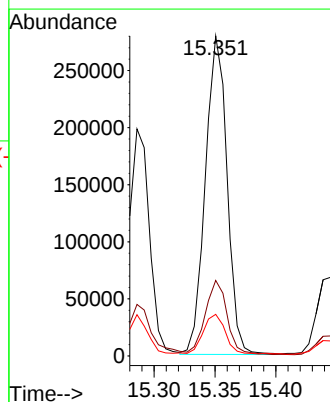
Tgt Ion:252 Resp: 347061

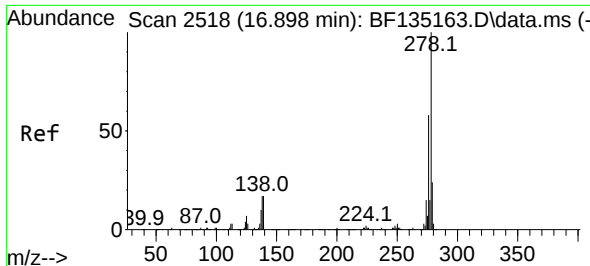
Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 13.0 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 3.505 ng

RT: 16.903 min Scan# 2519

Delta R.T. 0.006 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:278 Resp: 4586

Ion Ratio Lower Upper

278 100

139 21.5 13.4 20.0

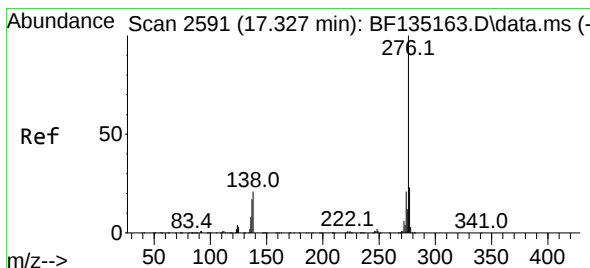
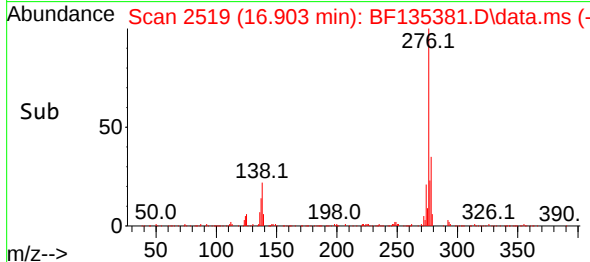
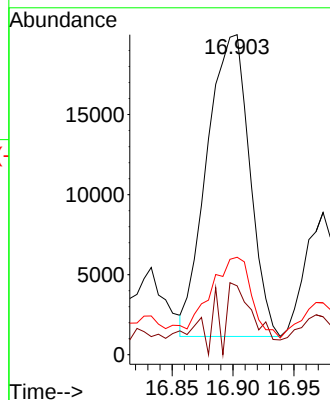
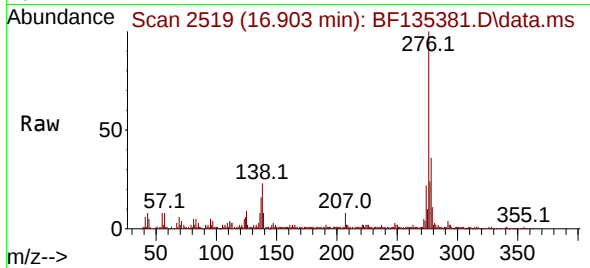
279 30.4 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/22/2023

Supervised By :mohammad ahmed 09/27/2023



#92

Benzo(g,h,i)perylene

Concen: 12.592 ng

RT: 17.339 min Scan# 2593

Delta R.T. 0.012 min

Lab File: BF135381.D

Acq: 21 Sep 2023 15:35

Tgt Ion:276 Resp: 172075

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 26.2 16.9 25.3

