

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
 Data File : BF135990.D
 Acq On : 27 Oct 2023 18:03
 Operator : CG\JU
 Sample : 04693-03DL 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)DL

Quant Time: Oct 27 22:34:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 03:58:01 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	174100	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	689704	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	340900	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	542525	20.000	ng	0.00
76) Chrysene-d12	14.010	240	328691	20.000	ng	0.00
86) Perylene-d12	15.498	264	375905	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	538839	47.792	ng	0.00
7) Phenol-d6	6.446	99	657581	46.848	ng	-0.01
23) Nitrobenzene-d5	7.381	82	343425	38.240	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	135423	45.385	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	567082	26.637	ng	0.00
79) Terphenyl-d14	12.951	244	327593	16.652	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.122	128	99543	2.985	ng	98
52) Acenaphthene	9.892	154	92842	4.806	ng	99
55) Dibenzofuran	10.063	168	74117	2.656	ng	96
58) Fluorene	10.410	166	139050	6.660	ng	100
71) Phenanthrene	11.381	178	1436270	52.327	ng	99
72) Anthracene	11.428	178	428137	15.234	ng	99
73) Carbazole	11.581	167	112627	4.492	ng	97
75) Fluoranthene	12.575	202	1157116	40.071	ng	99
78) Pyrene	12.804	202	1099028	39.822	ng	100
81) Benzo(a)anthracene	13.998	228	628019	28.100	ng	100
83) Chrysene	14.033	228	545192	25.047	ng	98
87) Indeno(1,2,3-cd)pyrene	16.992	276	176266	8.270	ng	95
88) Benzo(b)fluoranthene	15.057	252	675720m	30.205	ng	
89) Benzo(k)fluoranthene	15.086	252	168588m	7.673	ng	
90) Benzo(a)pyrene	15.433	252	473132	22.948	ng	99
91) Dibenzo(a,h)anthracene	17.015	278	47058m	2.581	ng	
92) Benzo(g,h,i)perylene	17.451	276	152186	10.525	ng	98

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

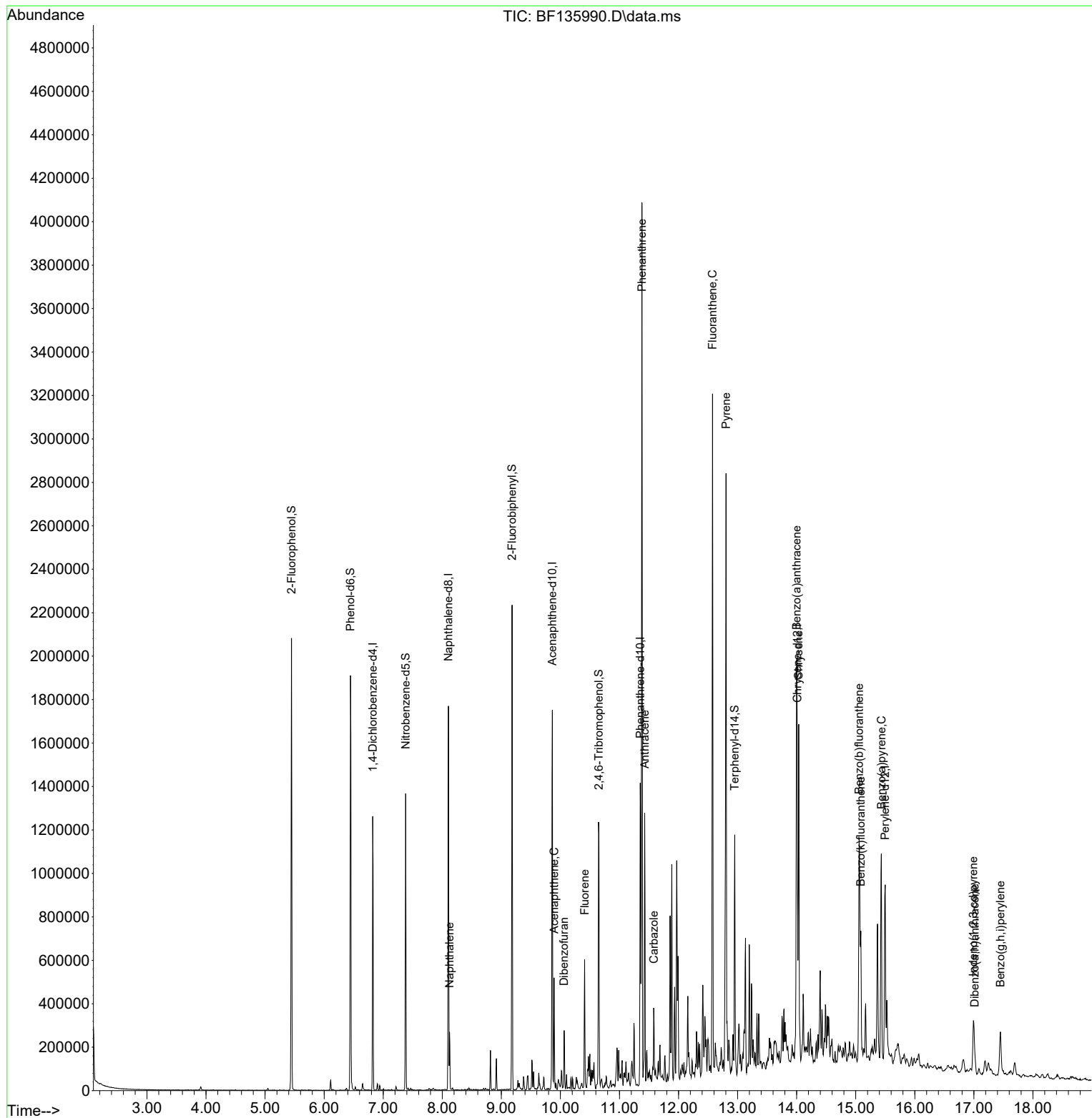
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
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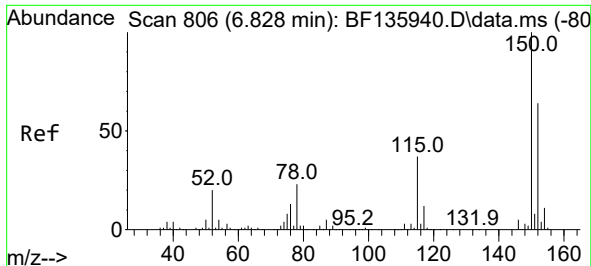
Instrument :
BNA_F
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S-2(10-15)DL

Quant Time: Oct 27 22:34:11 2023
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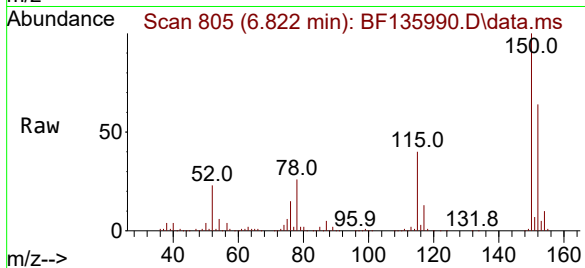
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

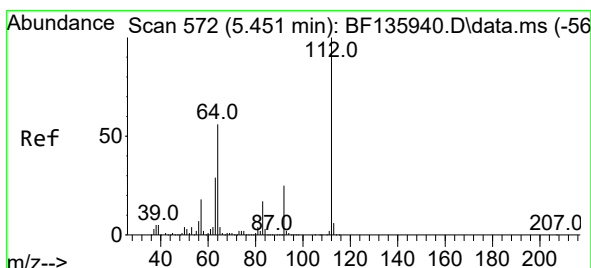
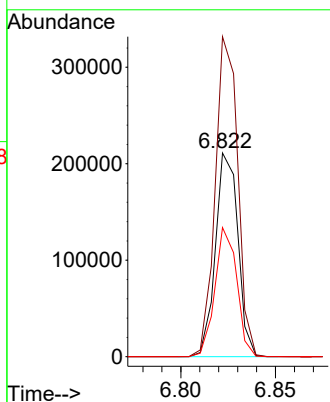
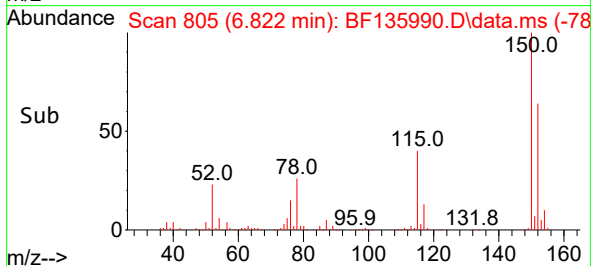
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL



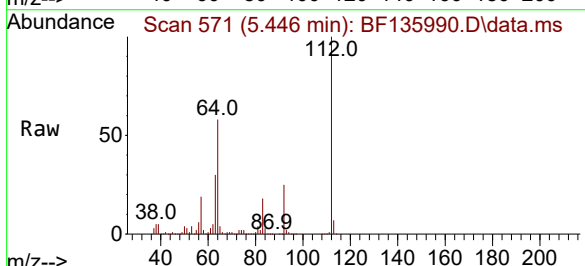
Tgt Ion:152 Resp: 174100
Ion Ratio Lower Upper
152 100
150 157.1 124.6 186.8
115 63.4 46.6 69.8

Manual Integrations
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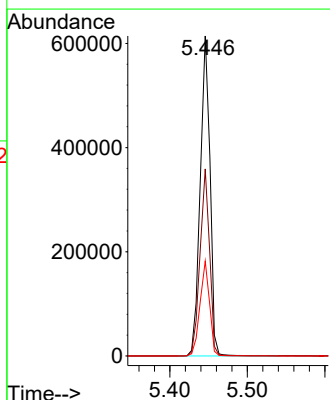
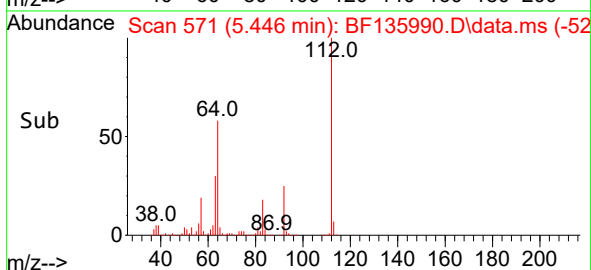
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

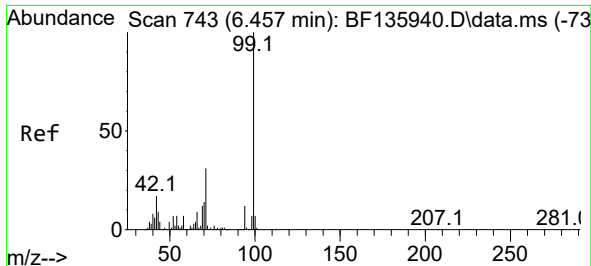


#5
2-Fluorophenol
Concen: 47.792 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03



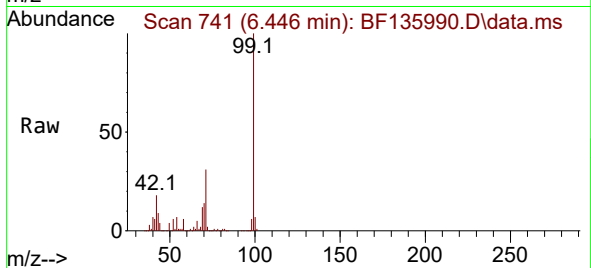
Tgt Ion:112 Resp: 538839
Ion Ratio Lower Upper
112 100
64 58.5 45.1 67.7
63 29.7 23.0 34.4





#7
Phenol-d6
Concen: 46.848 ng
RT: 6.446 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

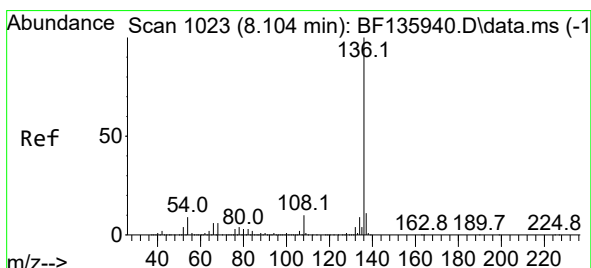
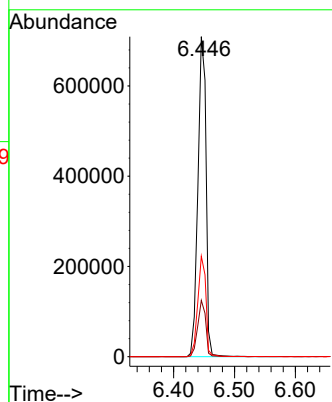
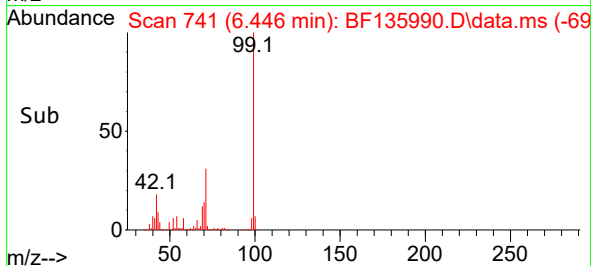
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL



Tgt Ion: 99 Resp: 65758
Ion Ratio Lower Upper
99 100
42 17.6 13.8 20.8
71 31.4 25.1 37.7

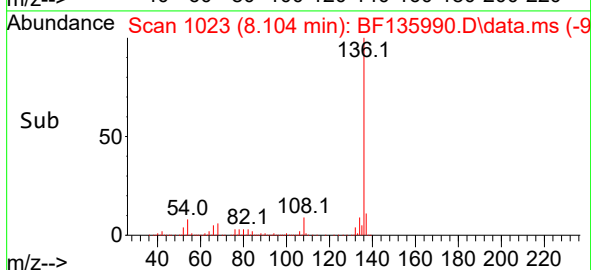
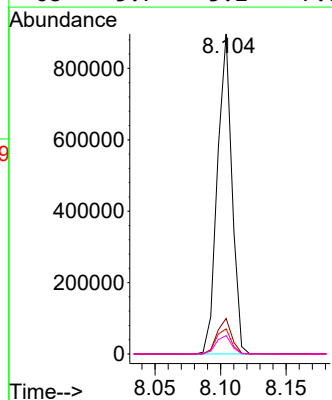
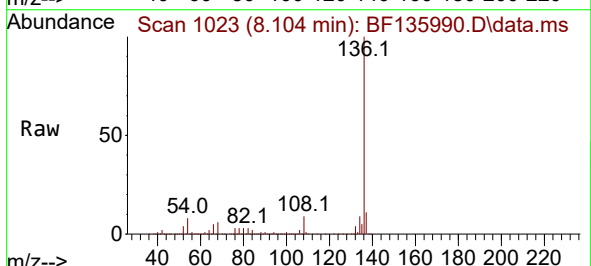
Manual Integrations
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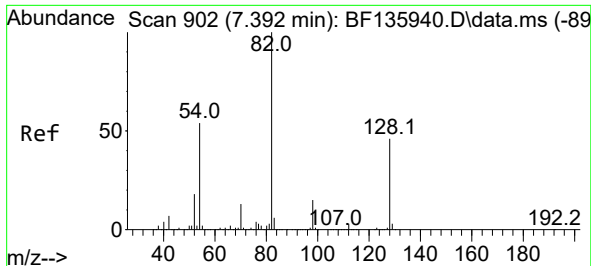
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Tgt Ion:136 Resp: 689704
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 7.9 7.1 10.7
68 5.7 5.2 7.8





#23

Nitrobenzene-d5

Concen: 38.240 ng

RT: 7.381 min Scan# 90

Delta R.T. -0.011 min

Lab File: BF135990.D

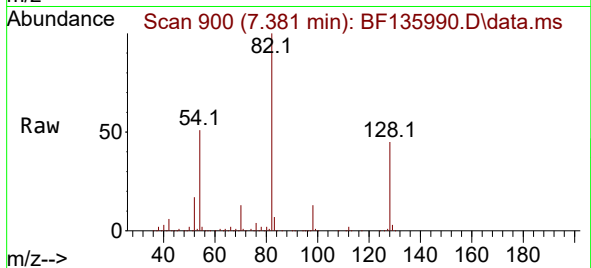
Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL



Tgt Ion: 82 Resp: 343425

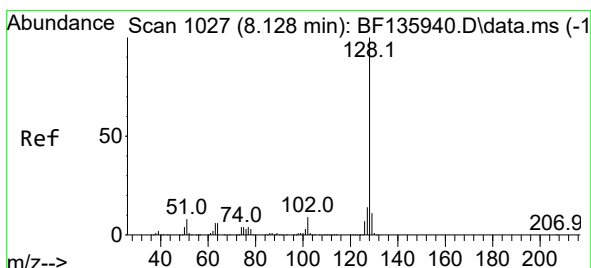
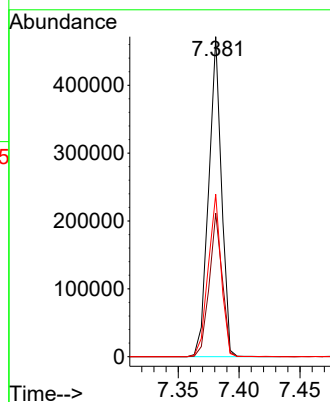
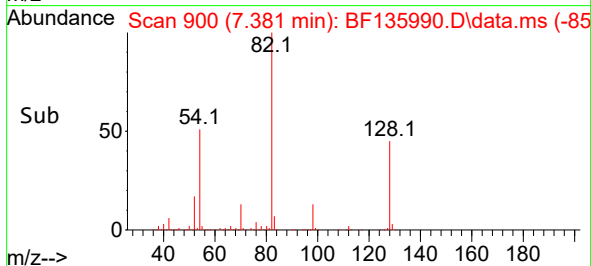
Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.8	55.2
54	50.7	43.4	65.0

Manual Integrations

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Supervised By :mohammad ahmed 10/28/2023



#31

Naphthalene

Concen: 2.985 ng

RT: 8.122 min Scan# 1026

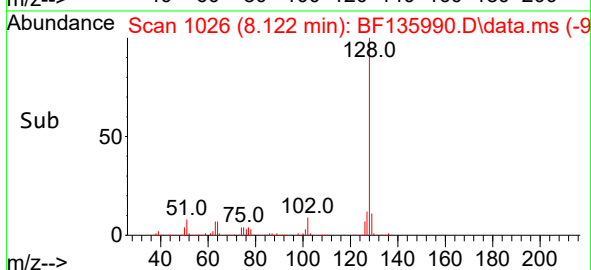
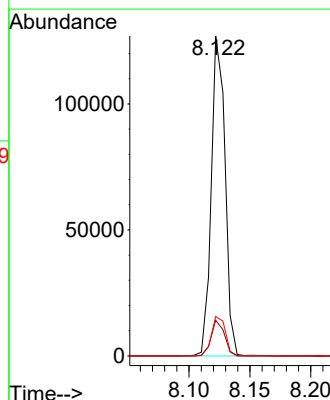
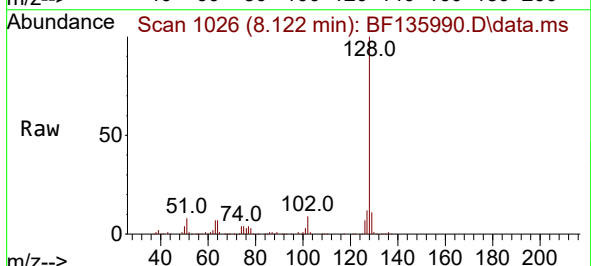
Delta R.T. -0.006 min

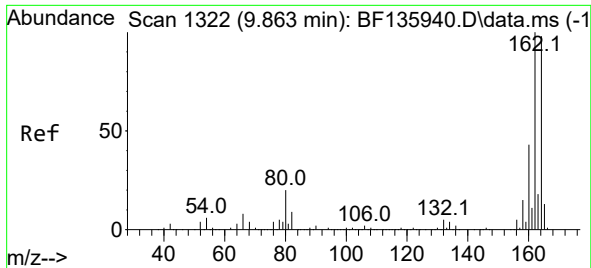
Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

Tgt Ion:128 Resp: 99543

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	12.3	10.9	16.3





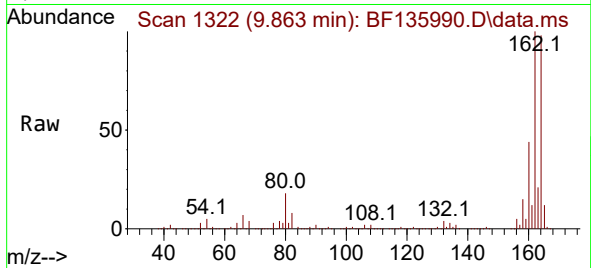
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL



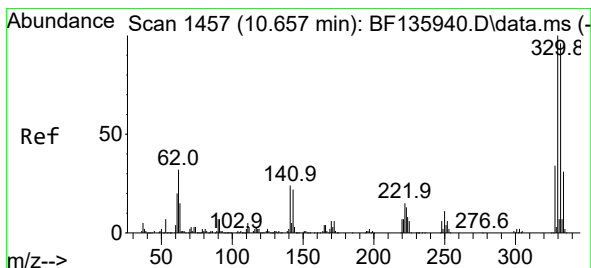
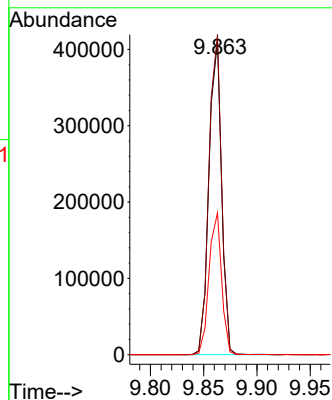
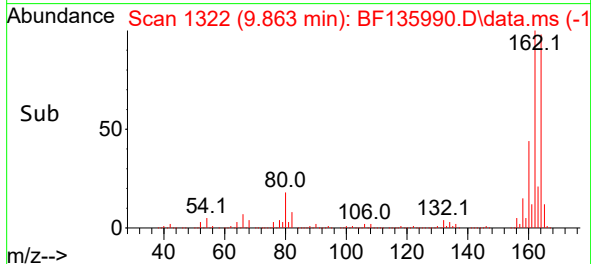
Tgt Ion:164 Resp: 340900
Ion Ratio Lower Upper
164 100
162 102.1 82.0 123.0
160 45.2 35.6 53.4

Manual Integrations

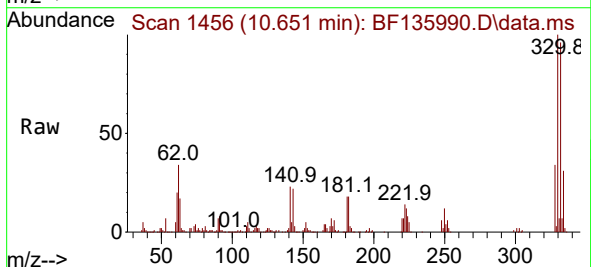
APPROVED

Reviewed By :Yogesh Patel 10/28/2023

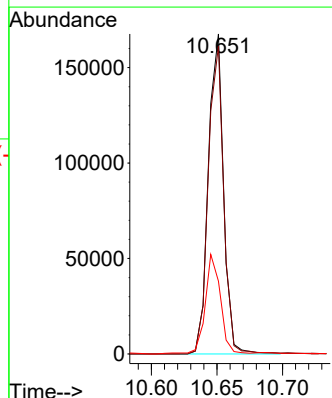
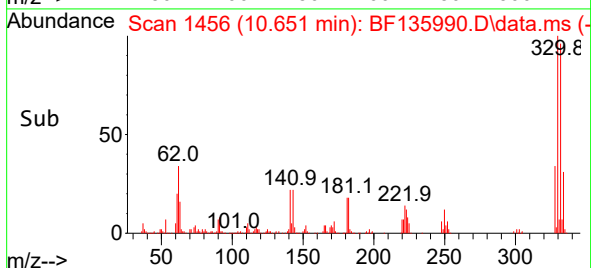
Supervised By :mohammad ahmed 10/28/2023

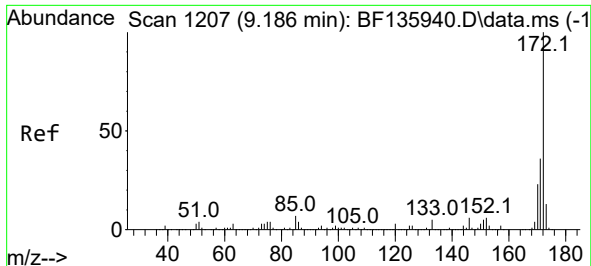


#42
2,4,6-Tribromophenol
Concen: 45.385 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03



Tgt Ion:330 Resp: 135423
Ion Ratio Lower Upper
330 100
332 97.4 77.4 116.2
141 31.3 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 26.637 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL

Tgt Ion:172 Resp: 56708

Ion Ratio Lower Upper

172 100

171 34.8 28.6 43.0

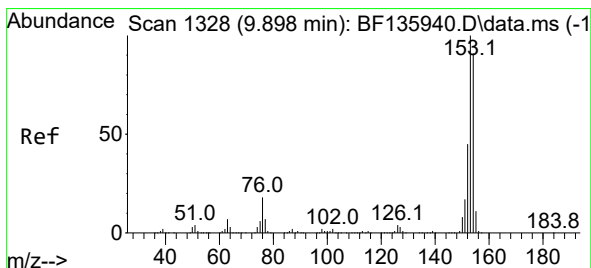
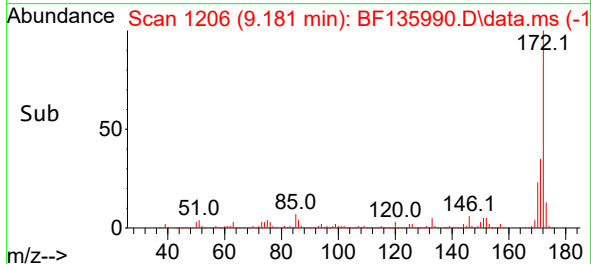
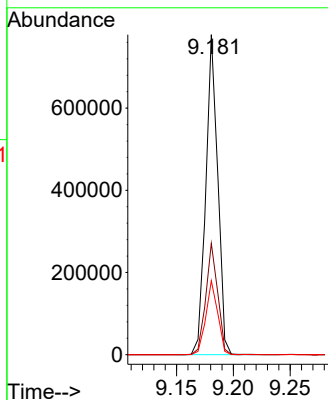
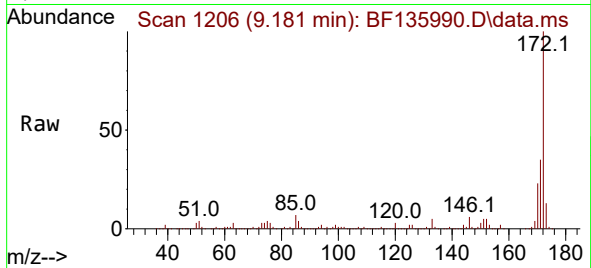
170 23.1 18.6 28.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

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#52

Acenaphthene

Concen: 4.806 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

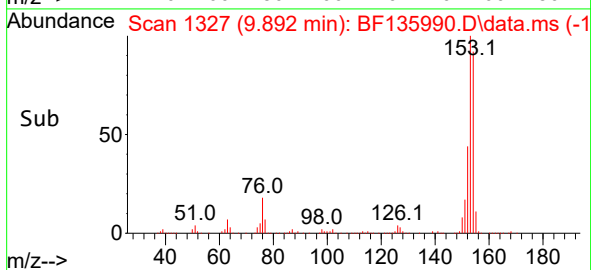
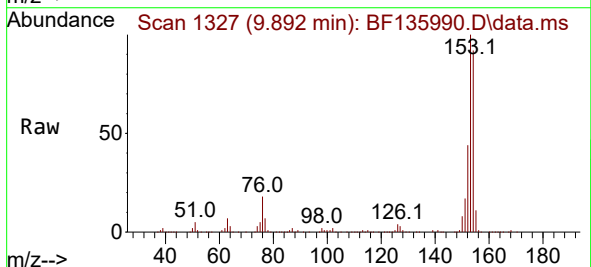
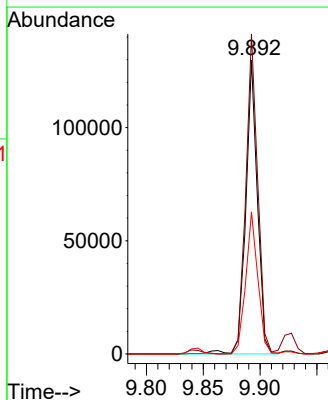
Tgt Ion:154 Resp: 92842

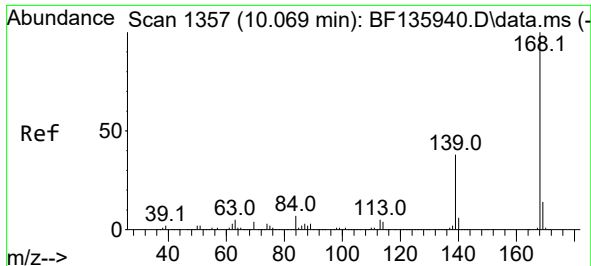
Ion Ratio Lower Upper

154 100

153 108.9 88.0 132.0

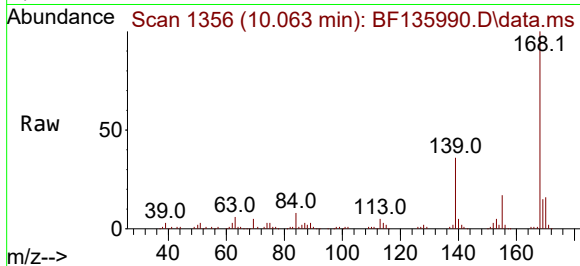
152 48.4 39.4 59.2





#55
Dibenzenofuran
Concen: 2.656 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

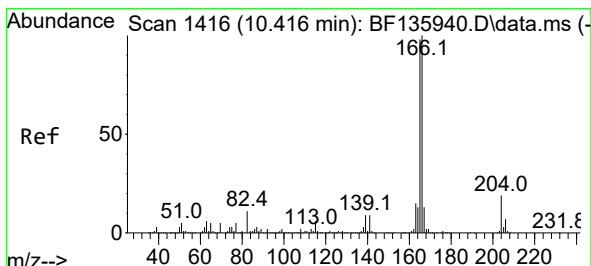
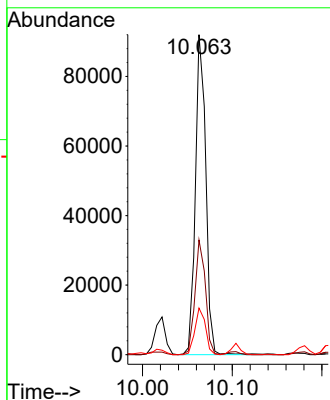
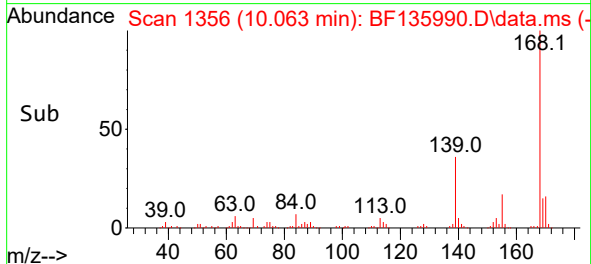
Instrument :
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ClientSampleId :
S-2(10-15)DL



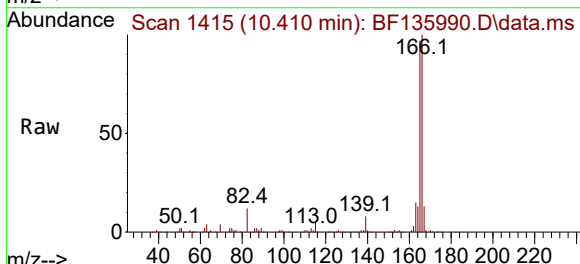
Tgt Ion:168 Resp: 7411
Ion Ratio Lower Upper
168 100
139 35.9 30.7 46.1
169 14.6 11.1 16.7

Manual Integrations
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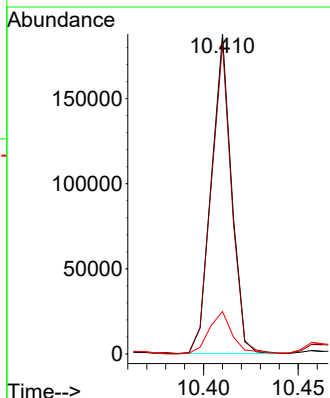
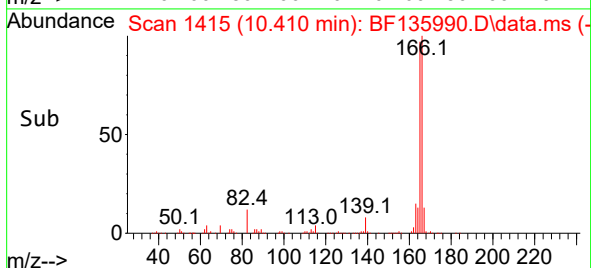
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

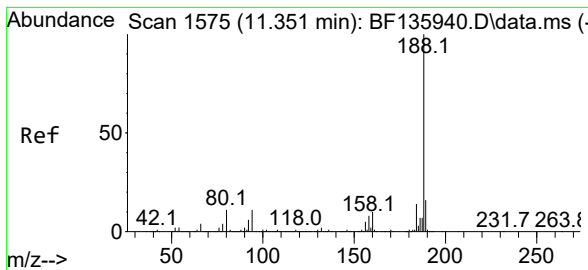


#58
Fluorene
Concen: 6.660 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03



Tgt Ion:166 Resp: 139050
Ion Ratio Lower Upper
166 100
165 97.1 78.0 117.0
167 13.3 10.6 16.0





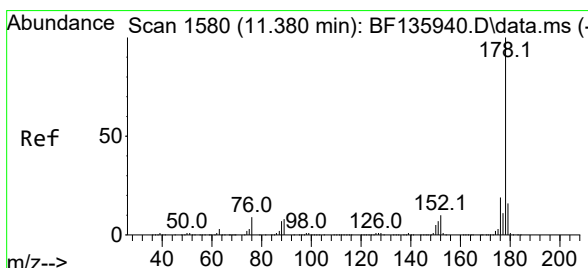
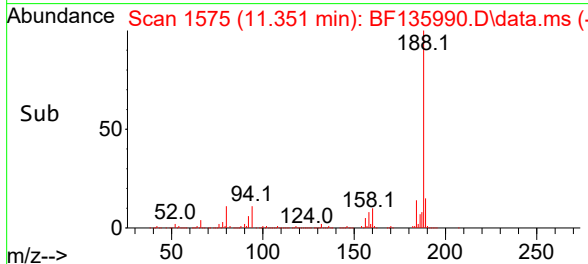
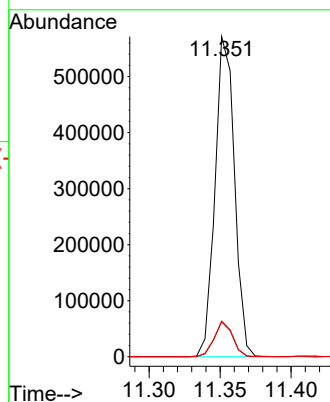
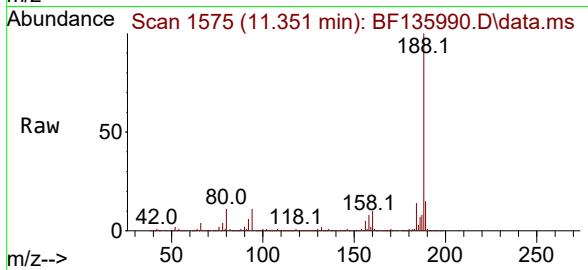
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL

Tgt Ion:188 Resp: 542529
Ion Ratio Lower Upper
188 100
94 10.9 8.6 13.0
80 11.1 9.0 13.6

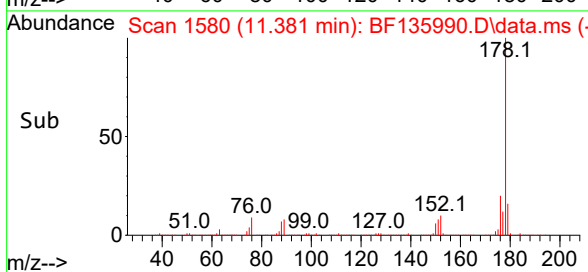
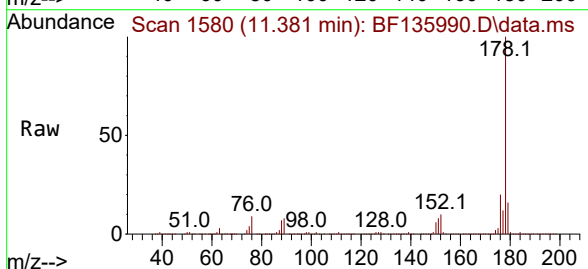
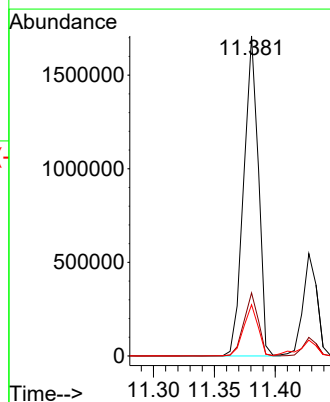
Manual Integrations
APPROVED

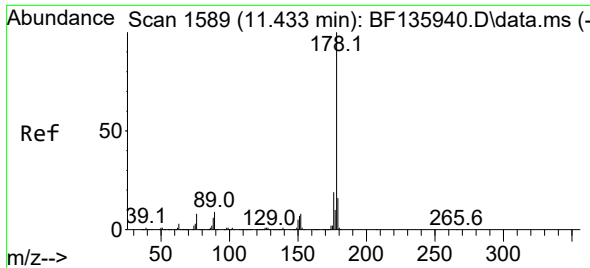
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#71
Phenanthrene
Concen: 52.327 ng
RT: 11.381 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Tgt Ion:178 Resp: 1436270
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 16.0 12.5 18.7





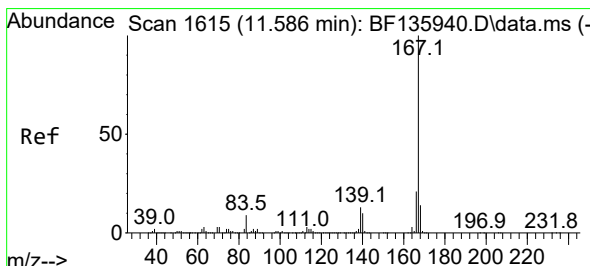
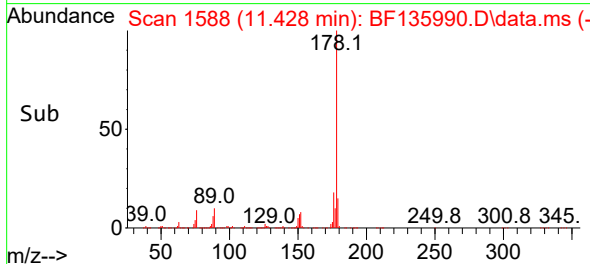
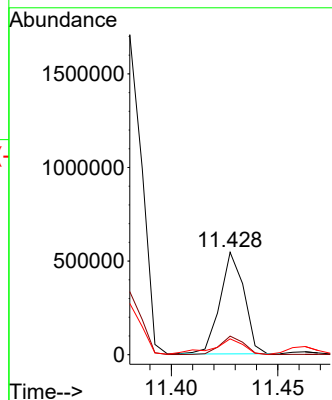
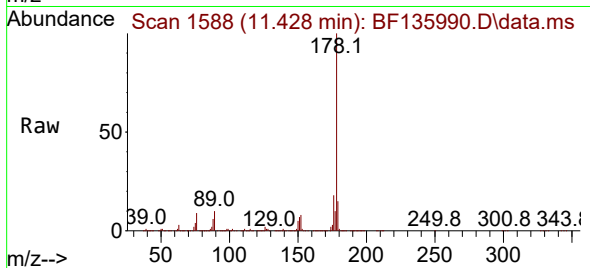
#72
 Anthracene
 Concen: 15.234 ng
 RT: 11.428 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF135990.D
 Acq: 27 Oct 2023 18:03

Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)DL

Tgt Ion:178 Resp: 42813
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.9 22.3
 179 15.5 12.5 18.7

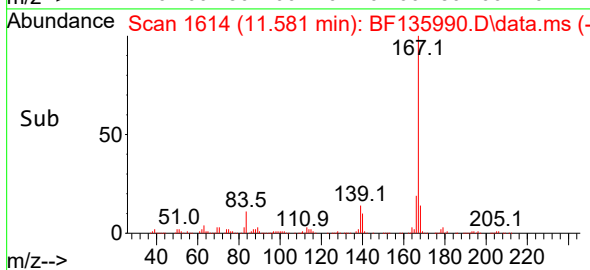
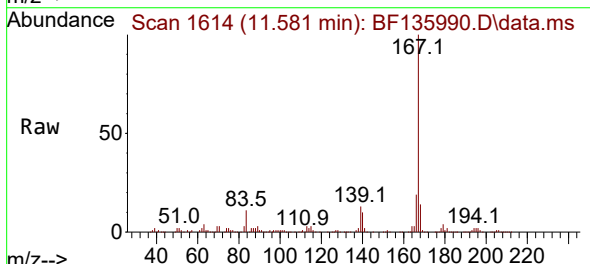
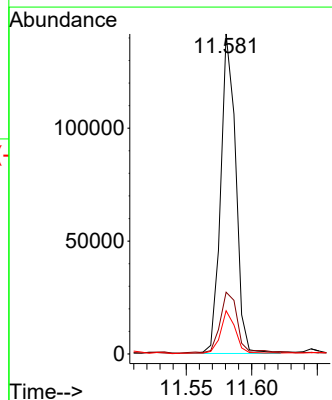
Manual Integrations
 APPROVED

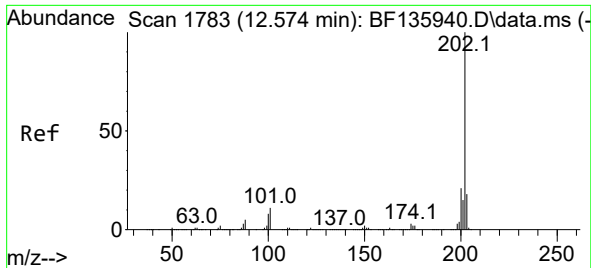
Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023



#73
 Carbazole
 Concen: 4.492 ng
 RT: 11.581 min Scan# 1614
 Delta R.T. -0.006 min
 Lab File: BF135990.D
 Acq: 27 Oct 2023 18:03

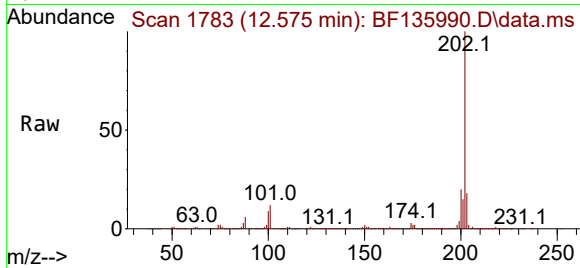
Tgt Ion:167 Resp: 112627
 Ion Ratio Lower Upper
 167 100
 166 19.3 17.0 25.6
 139 13.5 10.4 15.6





#75
Fluoranthene
Concen: 40.071 ng
RT: 12.575 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

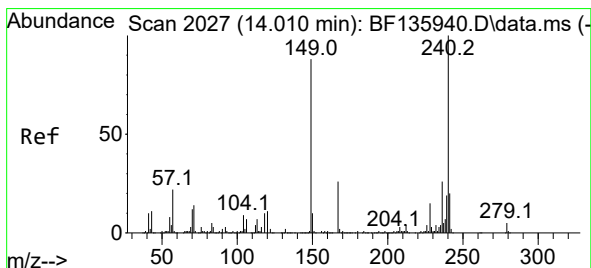
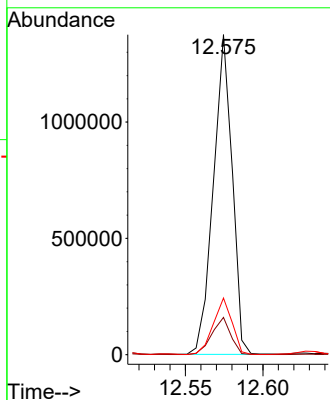
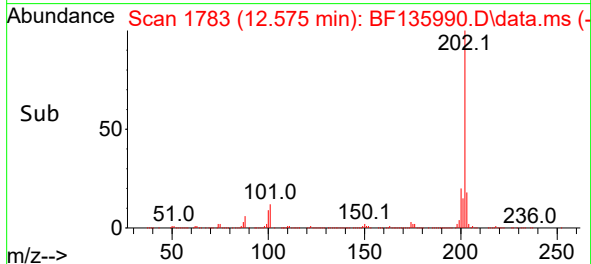
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL



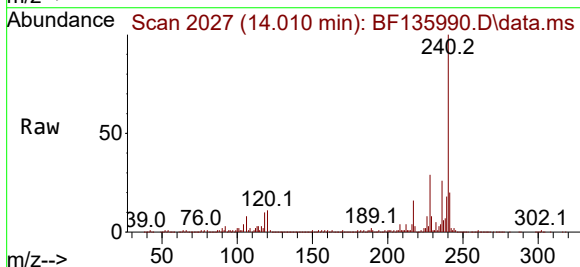
Tgt Ion:202 Resp: 1157110
Ion Ratio Lower Upper
202 100
101 11.6 0.0 30.6
203 17.7 0.0 37.5

Manual Integrations
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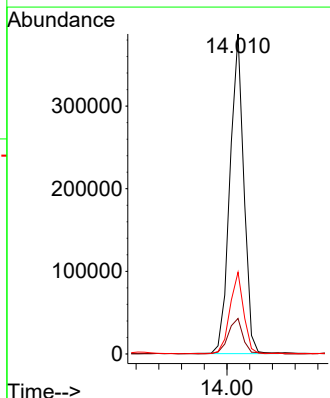
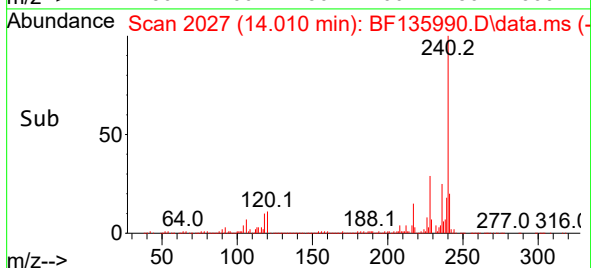
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

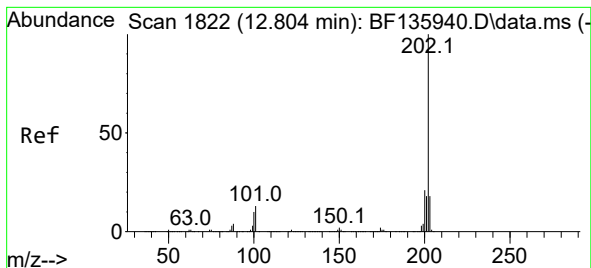


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03



Tgt Ion:240 Resp: 328691
Ion Ratio Lower Upper
240 100
120 11.1 8.6 13.0
236 25.6 20.6 30.8





#78

Pyrene

Concen: 39.822 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF135990.D

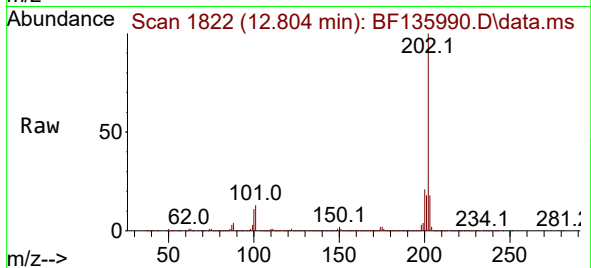
Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL



Tgt Ion:202 Resp: 1099028

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.6

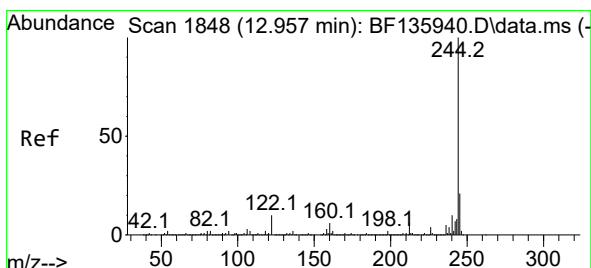
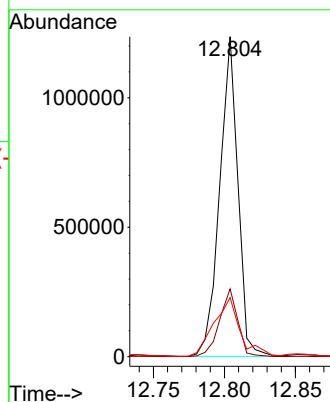
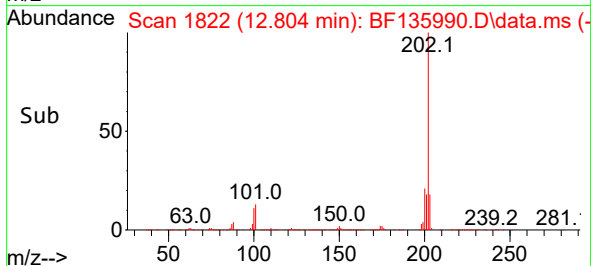
203 18.5 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#79

Terphenyl-d14

Concen: 16.652 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

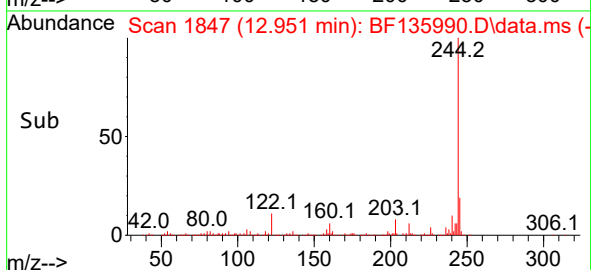
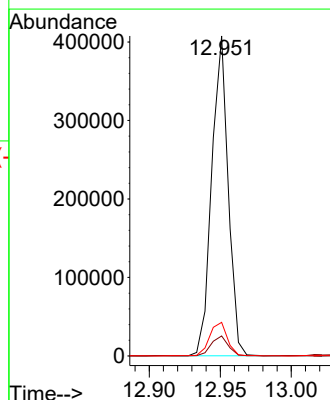
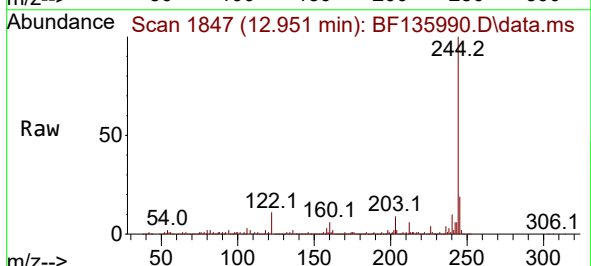
Tgt Ion:244 Resp: 327593

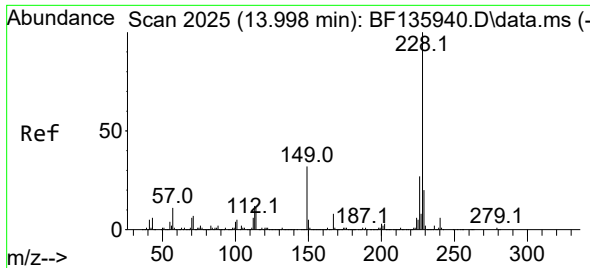
Ion Ratio Lower Upper

244 100

212 6.3 5.0 7.6

122 10.5 8.0 12.0





#81
Benzo(a)anthracene
Concen: 28.100 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

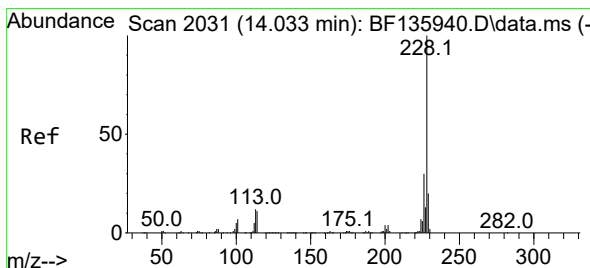
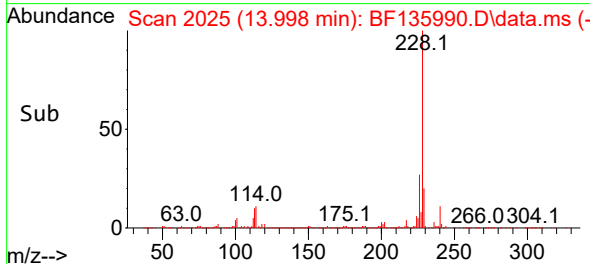
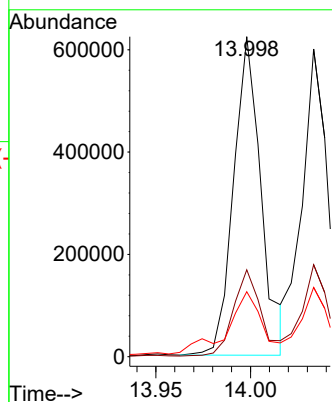
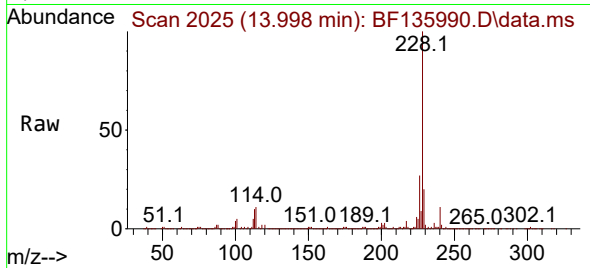
S-2(10-15)DL

Tgt Ion:228 Resp: 628019
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.6
229 20.3 16.2 24.4

Manual Integrations

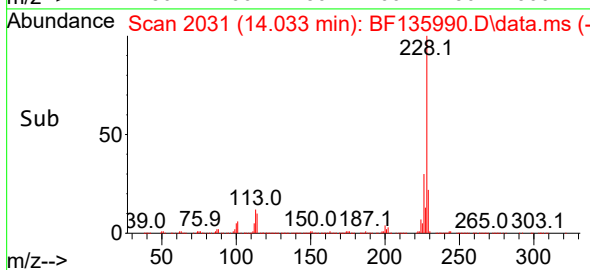
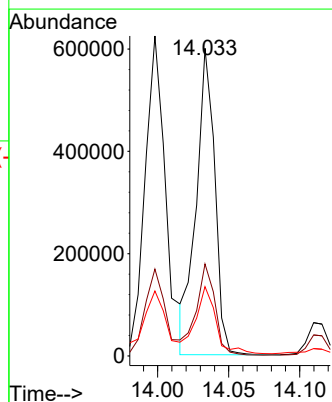
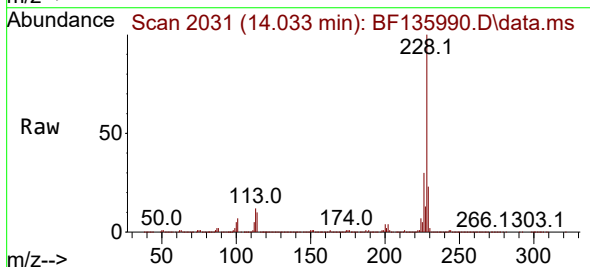
APPROVED

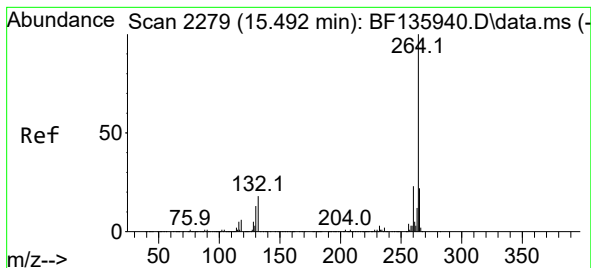
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#83
Chrysene
Concen: 25.047 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

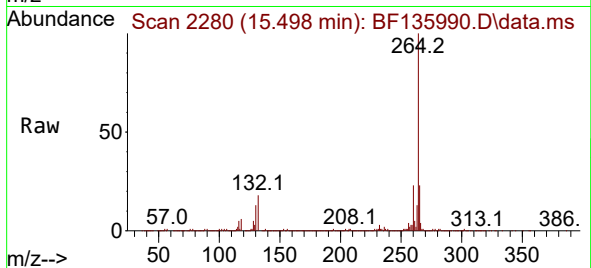
Tgt Ion:228 Resp: 545192
Ion Ratio Lower Upper
228 100
226 29.9 23.9 35.9
229 22.5 16.2 24.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.498 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

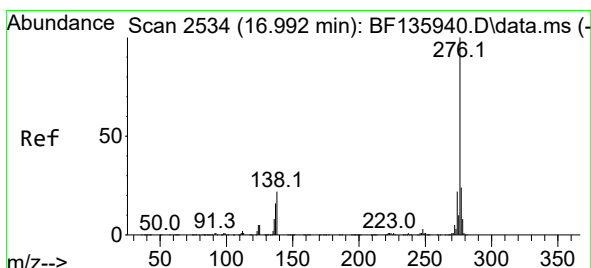
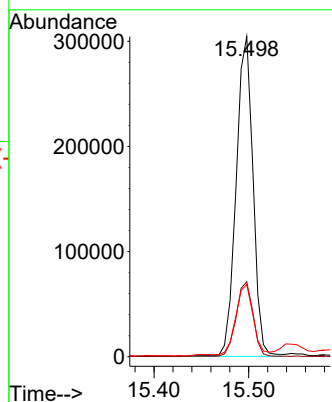
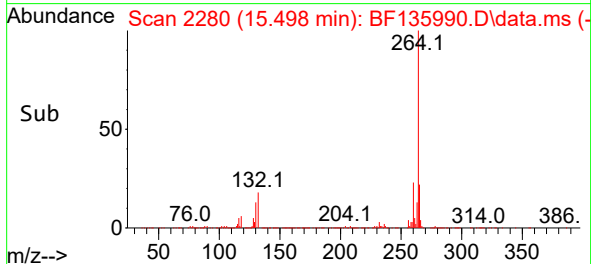
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL



Tgt Ion:264 Resp: 37590
Ion Ratio Lower Upper
264 100
260 23.4 18.6 28.0
265 22.6 17.3 25.9

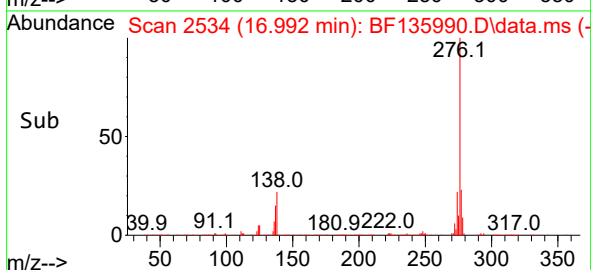
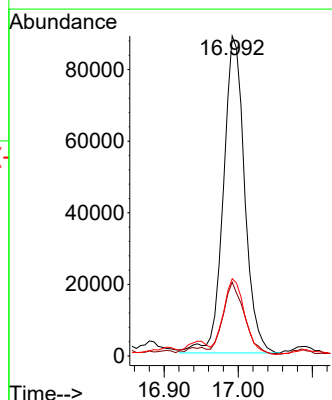
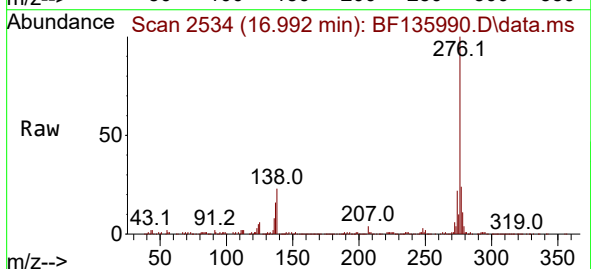
Manual Integrations
APPROVED

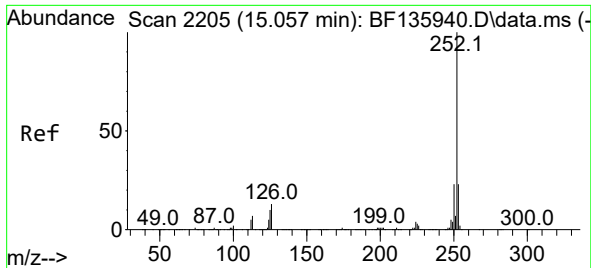
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 8.270 ng
RT: 16.992 min Scan# 2534
Delta R.T. -0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

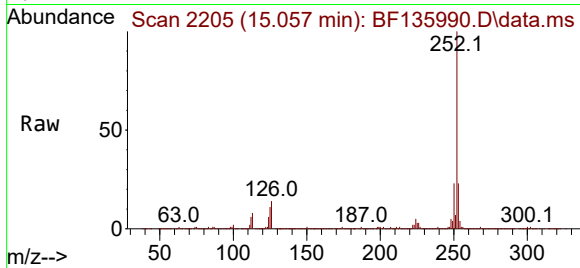
Tgt Ion:276 Resp: 176266
Ion Ratio Lower Upper
276 100
138 23.0 21.8 32.6
277 24.2 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 30.205 ng m
RT: 15.057 min Scan# 2205
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

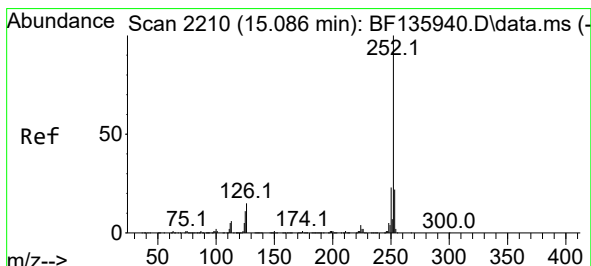
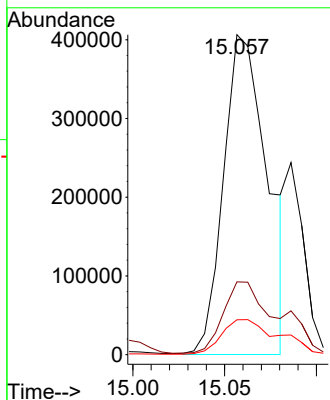
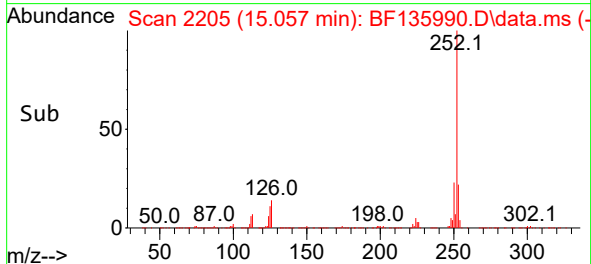
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)DL



Tgt Ion:252 Resp: 675720
Ion Ratio Lower Upper
252 100
253 22.7 18.0 27.0
125 10.9 8.2 12.4

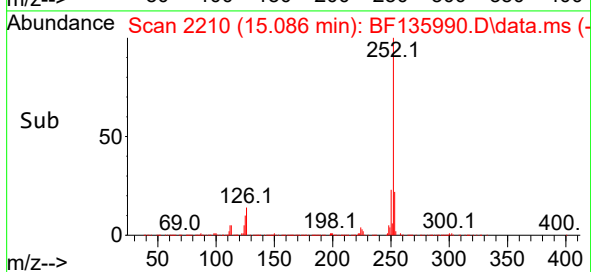
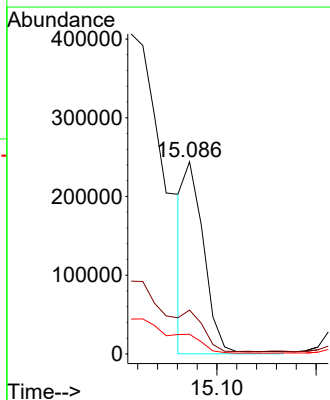
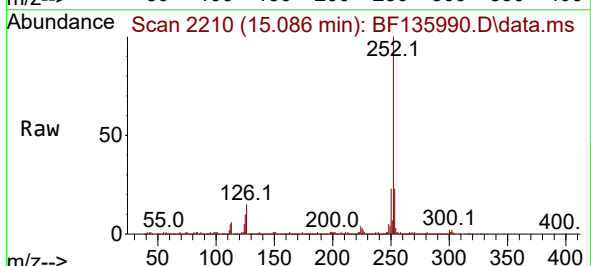
Manual Integrations
APPROVED

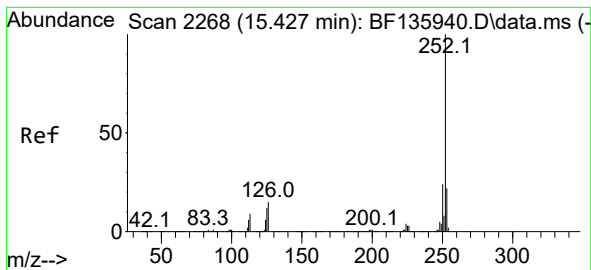
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#89
Benzo(k)fluoranthene
Concen: 7.673 ng m
RT: 15.086 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF135990.D
Acq: 27 Oct 2023 18:03

Tgt Ion:252 Resp: 168588
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 10.2 8.5 12.7





#90

Benzo(a)pyrene

Concen: 22.948 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL

Tgt Ion:252 Resp: 47313

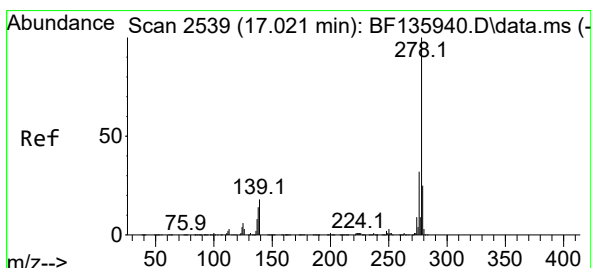
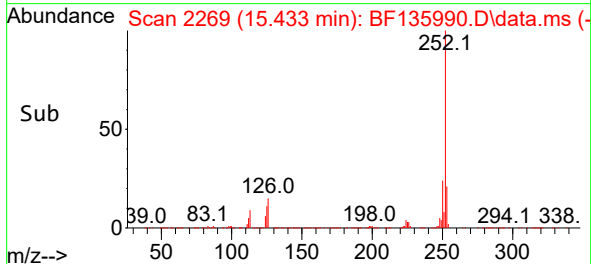
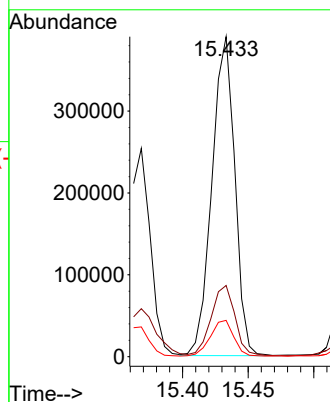
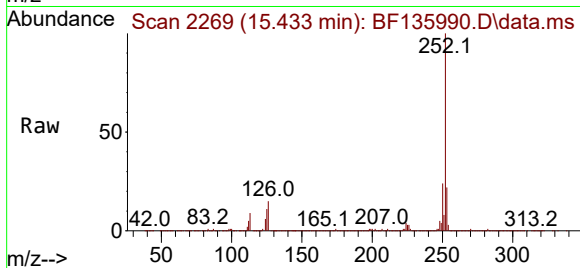
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.2
125	11.4	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.581 ng m

RT: 17.015 min Scan# 2538

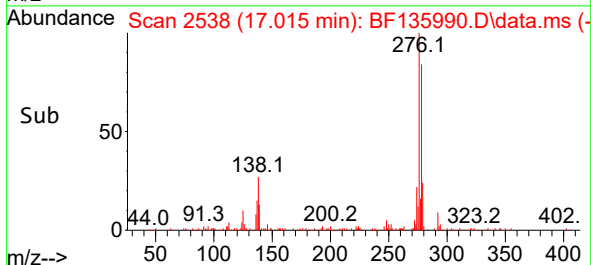
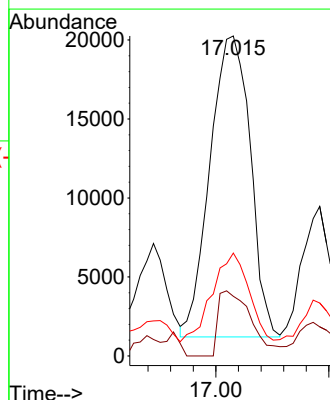
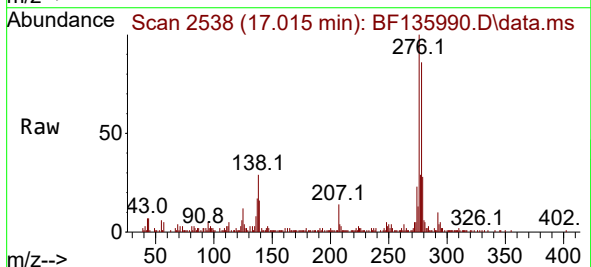
Delta R.T. -0.006 min

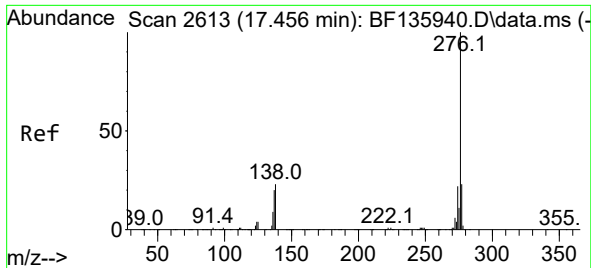
Lab File: BF135990.D

Acq: 27 Oct 2023 18:03

Tgt Ion:278 Resp: 47058

Ion	Ratio	Lower	Upper
278	100		
139	18.7	14.0	21.0
279	32.2	19.7	29.5





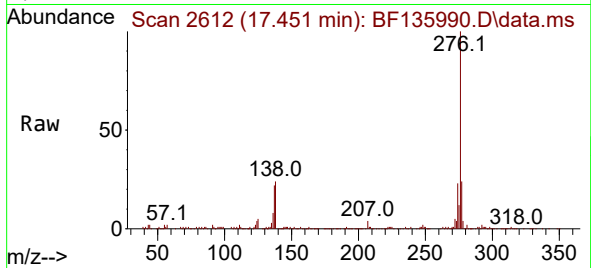
#92
 Benzo(g,h,i)perylene
 Concen: 10.525 ng
 RT: 17.451 min Scan# 20
 Delta R.T. -0.005 min
 Lab File: BF135990.D
 Acq: 27 Oct 2023 18:03

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)DL



Tgt Ion:276 Resp: 152180
 Ion Ratio Lower Upper
 276 100
 277 24.1 18.6 28.0
 138 23.9 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023

