

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
 Data File : BF134728.D
 Acq On : 11 Aug 2023 12:29
 Operator : CG\JU
 Sample : 03954-13DL 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-19DL

Quant Time: Aug 11 22:20:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	153950	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	558942	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	251953	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	383717	20.000	ng	# 0.00
76) Chrysene-d12	13.968	240	316406	20.000	ng	# 0.00
86) Perylene-d12	15.439	264	267423	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	8986	0.887	ng	0.00
7) Phenol-d6	6.428	99	9745	0.753	ng	-0.01
23) Nitrobenzene-d5	7.357	82	7086	0.792	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	2756	1.073	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	18306	1.208	ng	-0.01
79) Terphenyl-d14	12.910	244	17048	0.950	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	396648	14.120	ng	99
37) 2-Methylnaphthalene	8.786	142	90280	4.849	ng	97
38) 1-Methylnaphthalene	8.886	142	59676	3.447	ng	98
52) Acenaphthene	9.863	154	121614	8.132	ng	99
55) Dibenzofuran	10.039	168	144399	6.783	ng	91
58) Fluorene	10.380	166	156441	10.089	ng	96
71) Phenanthrene	11.351	178	1295091	63.543	ng	99
72) Anthracene	11.398	178	315348	15.147	ng	100
73) Carbazole	11.551	167	122269	6.578	ng	97
75) Fluoranthene	12.539	202	1177933	54.713	ng	96
78) Pyrene	12.768	202	1078834	39.404	ng	97
81) Benzo(a)anthracene	13.962	228	446350	19.729	ng	99
83) Chrysene	13.998	228	417038	18.920	ng	98
87) Indeno(1,2,3-cd)pyrene	16.921	276	125538	7.982	ng	96
88) Benzo(b)fluoranthene	15.009	252	379154m	23.247	ng	
89) Benzo(k)fluoranthene	15.033	252	115929m	7.135	ng	
90) Benzo(a)pyrene	15.374	252	256699	16.880	ng	# 93
91) Dibenzo(a,h)anthracene	16.939	278	28678	2.256	ng	# 93
92) Benzo(g,h,i)perylene	17.374	276	119220	9.195	ng	# 88

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

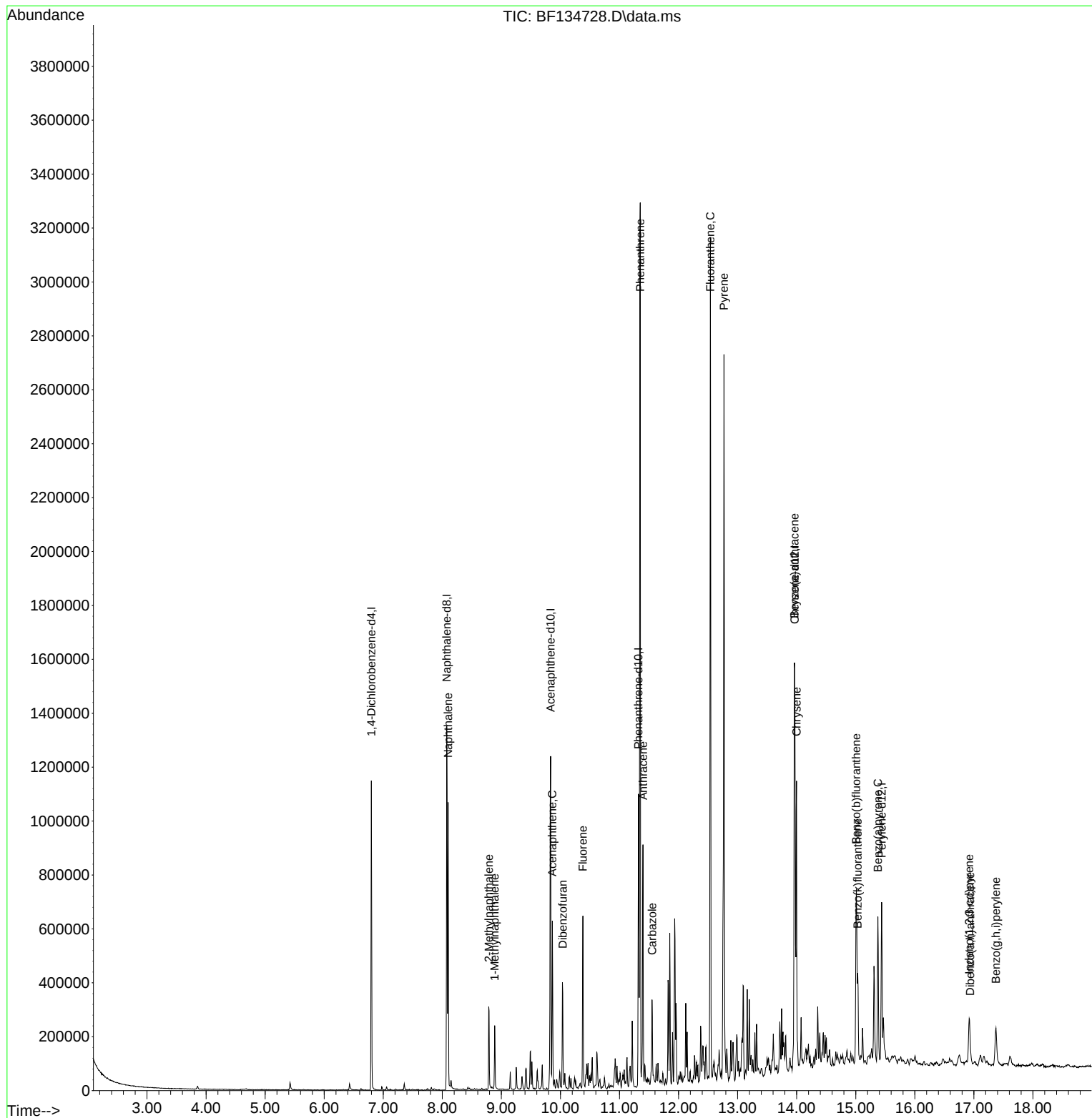
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
Data File : BF134728.D
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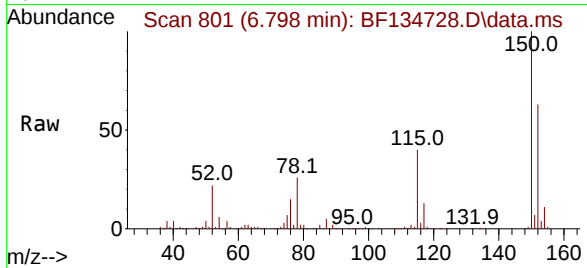
Quant Time: Aug 11 22:20:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 09:29:15 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

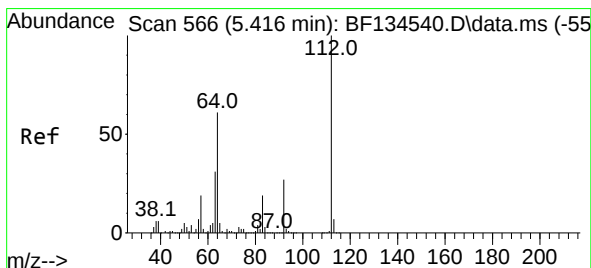
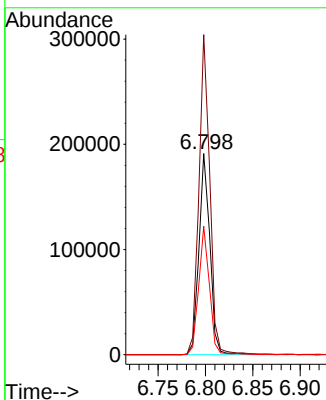
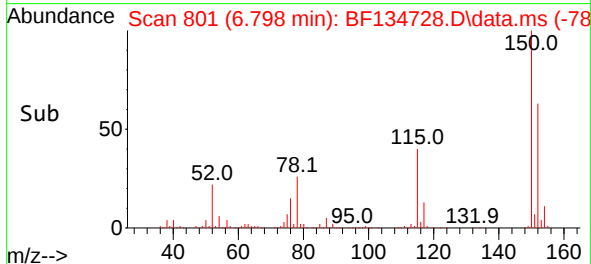
Instrument :
BNA_F
ClientSampleId :
WC-19DL



Tgt Ion:152 Resp: 153950
Ion Ratio Lower Upper
152 100
150 159.1 128.3 192.5
115 63.8 52.4 78.6

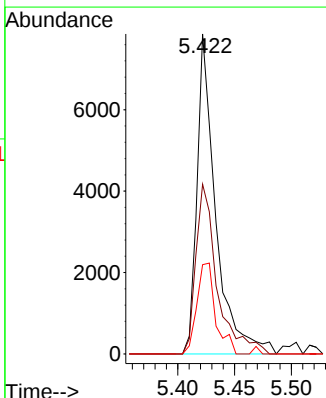
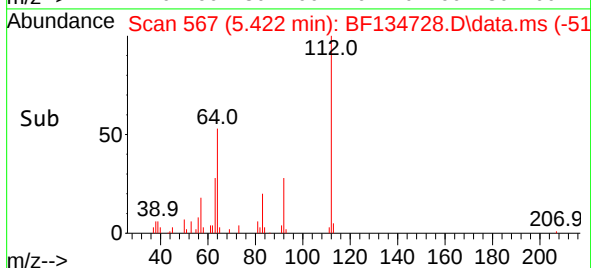
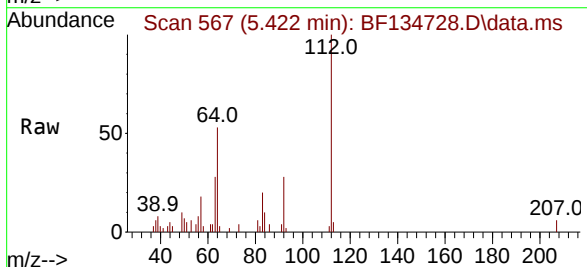
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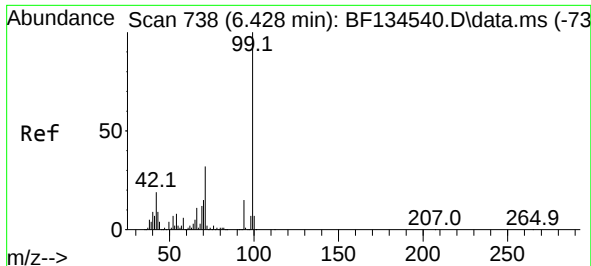
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#5
2-Fluorophenol
Concen: 0.887 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Tgt Ion:112 Resp: 8986
Ion Ratio Lower Upper
112 100
64 53.0 44.9 67.3
63 27.9 25.4 38.0





#7

Phenol-d6

Concen: 0.753 ng

RT: 6.428 min Scan# 738

Delta R.T. -0.012 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

WC-19DL

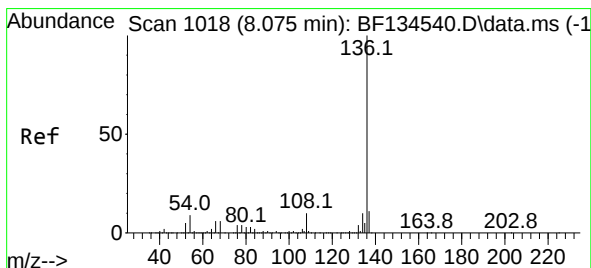
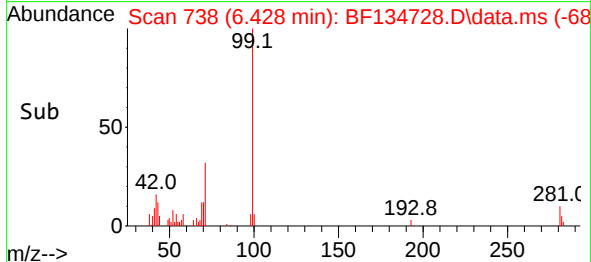
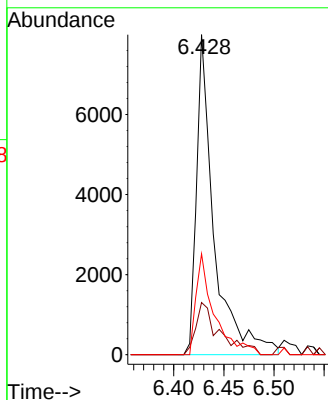
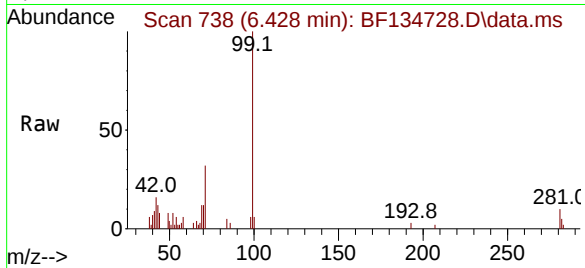
Tgt Ion:	99	Resp:	974
Ion	Ratio	Lower	Upper
99	100		
42	16.3	18.7	28.1
71	31.5	36.4	54.6

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Supervised By :mohammad ahmed 08/12/2023



#21

Naphthalene-d8

Concen: 20.000 ng

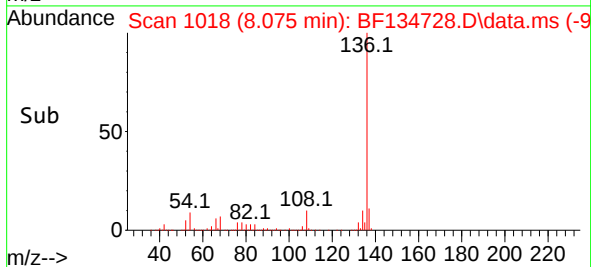
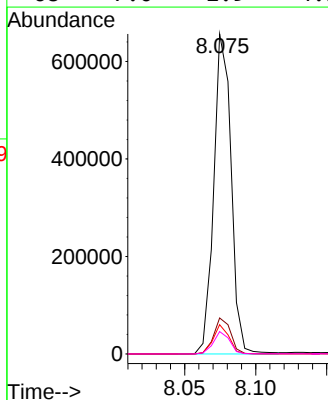
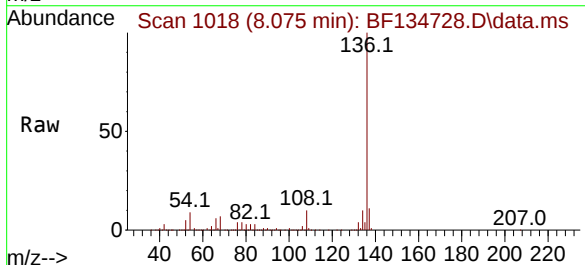
RT: 8.075 min Scan# 1018

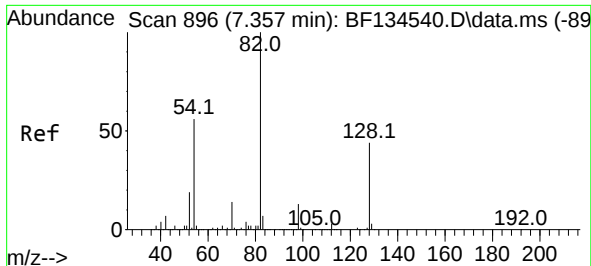
Delta R.T. -0.006 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

Tgt Ion:	136	Resp:	558942
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.4	12.6
54	9.1	5.2	7.8
68	7.0	2.9	4.3





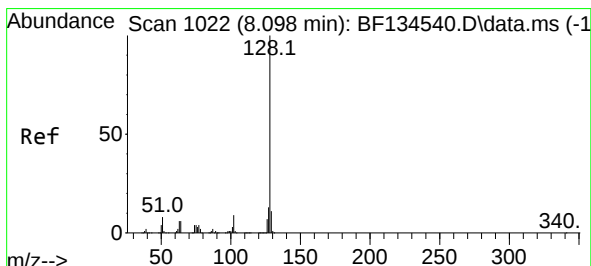
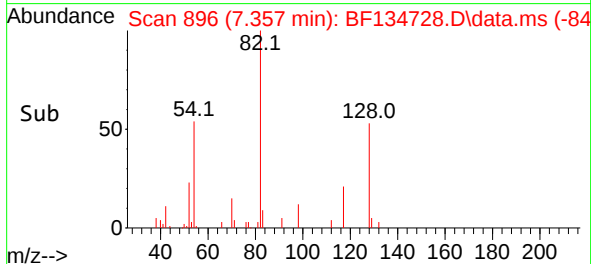
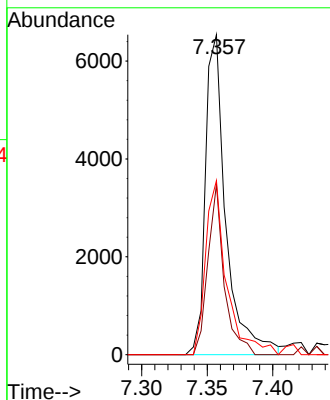
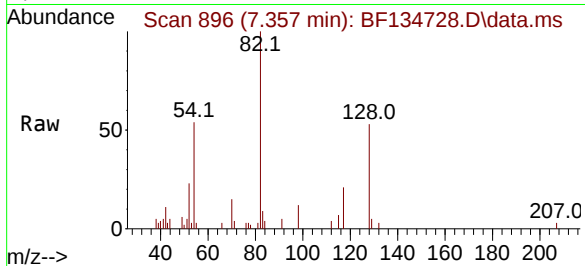
#23
Nitrobenzene-d5
Concen: 0.792 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Instrument :
BNA_F
ClientSampleId :
WC-19DL

Tgt Ion: 82 Resp: 7080
Ion Ratio Lower Upper
82 100
128 53.2 34.3 51.5
54 54.4 43.8 65.6

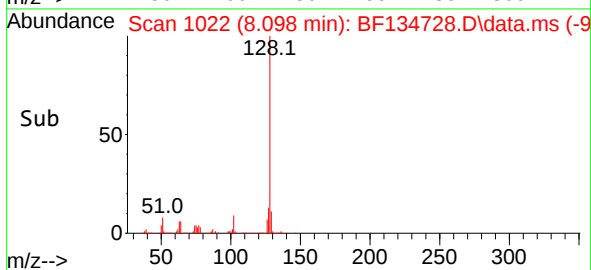
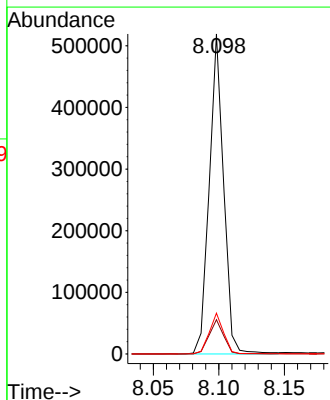
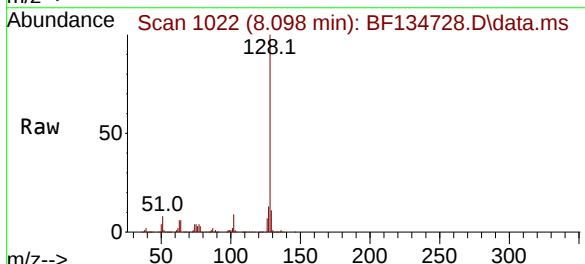
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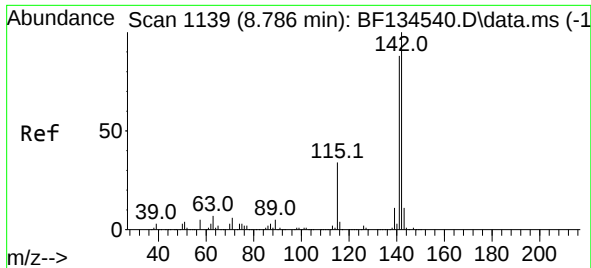
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#31
Naphthalene
Concen: 14.120 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Tgt Ion:128 Resp: 396648
Ion Ratio Lower Upper
128 100
129 10.7 8.4 12.6
127 12.7 10.7 16.1





#37

2-Methylnaphthalene

Concen: 4.849 ng

RT: 8.786 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

WC-19DL

Tgt Ion:142 Resp: 90280

Ion Ratio Lower Upper

142 100

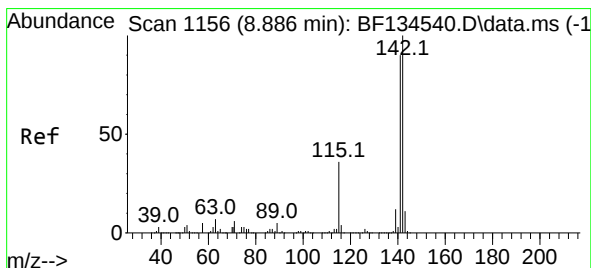
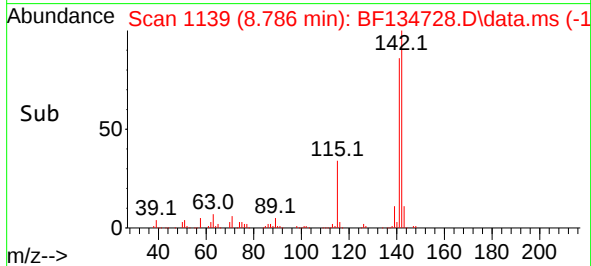
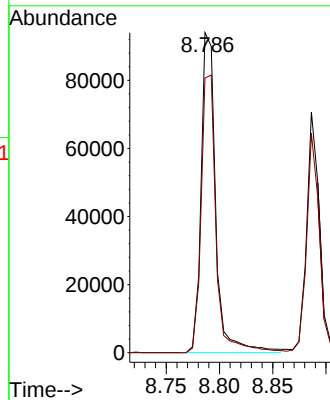
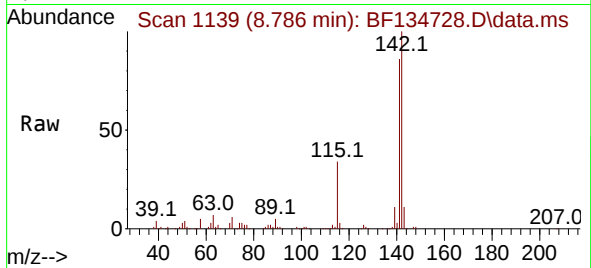
141 85.8 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#38

1-Methylnaphthalene

Concen: 3.447 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF134728.D

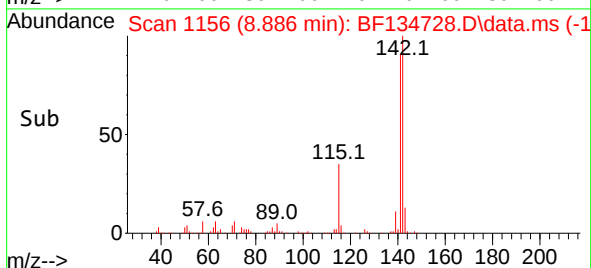
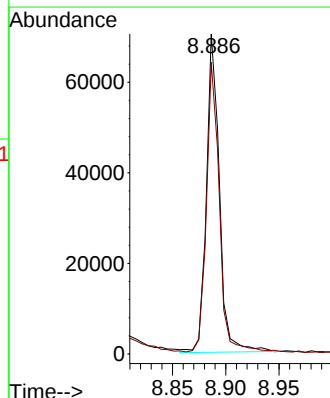
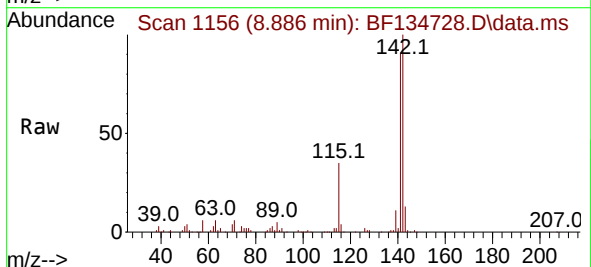
Acq: 11 Aug 2023 12:29

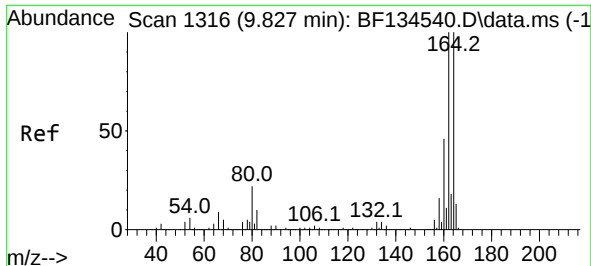
Tgt Ion:142 Resp: 59676

Ion Ratio Lower Upper

142 100

141 91.1 71.4 107.2





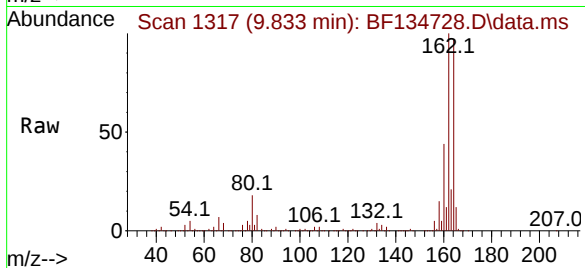
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

WC-19DL



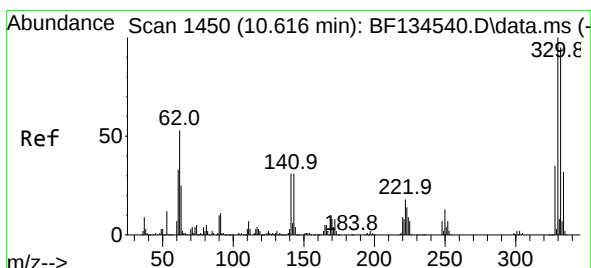
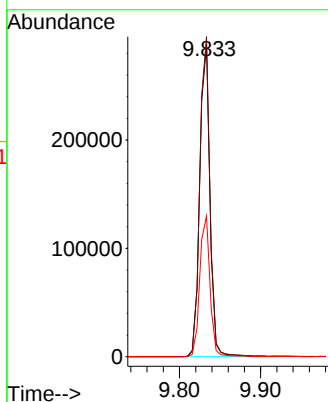
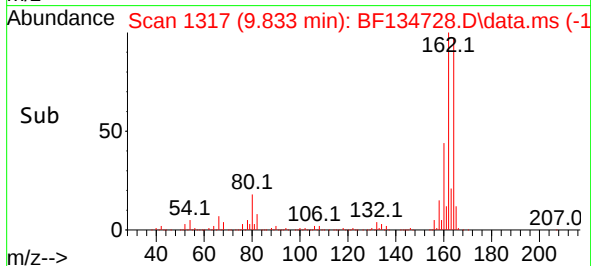
Tgt Ion:164 Resp: 25195
Ion Ratio Lower Upper
164 100
162 102.8 82.6 123.8
160 45.2 37.2 55.8

Manual Integrations

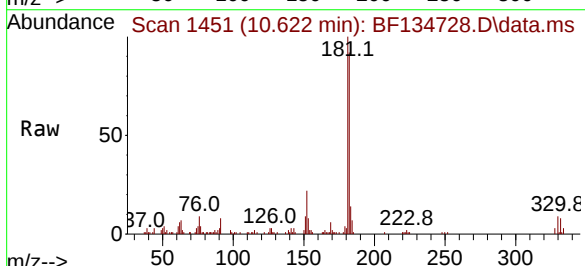
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Reviewed By :Yogesh Patel 08/12/2023

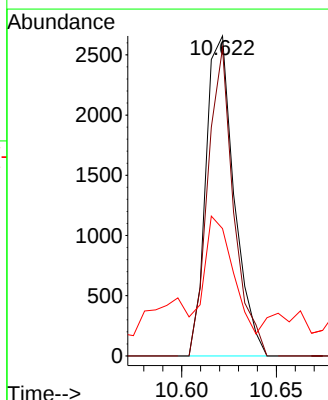
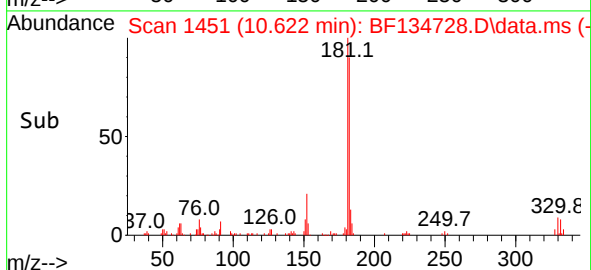
Supervised By :mohammad ahmed 08/12/2023

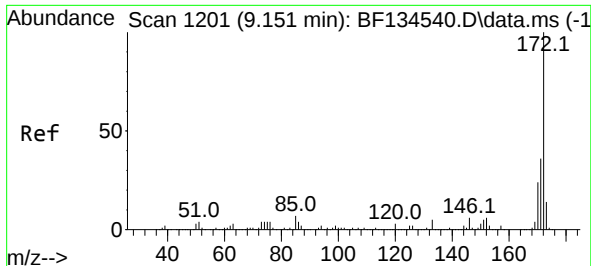


#42
2,4,6-Tribromophenol
Concen: 1.073 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29



Tgt Ion:330 Resp: 2756
Ion Ratio Lower Upper
330 100
332 88.5 78.8 118.2
141 79.6 25.4 38.2#





#45

2-Fluorobiphenyl

Concen: 1.208 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF134728.D

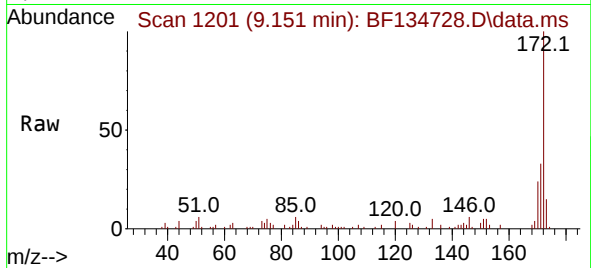
Acq: 11 Aug 2023 12:29

Instrument :

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ClientSampleId :

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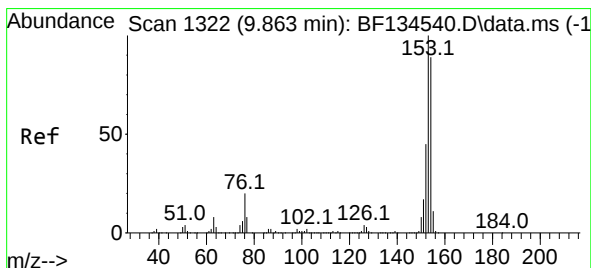
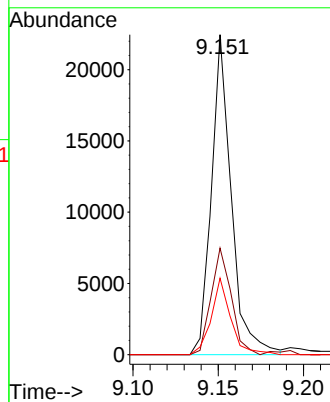
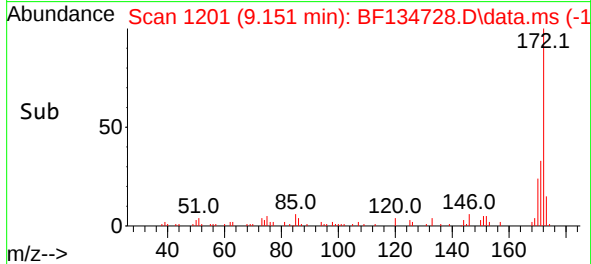
Tgt Ion:172	Resp:	18300
Ion Ratio	Lower	Upper
172	100	
171	33.3	28.8 43.2
170	23.9	18.7 28.1

Manual Integrations

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Supervised By :mohammad ahmed 08/12/2023



#52

Acenaphthene

Concen: 8.132 ng

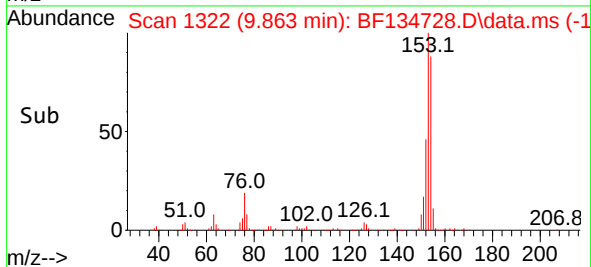
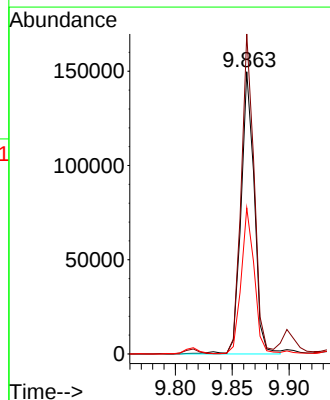
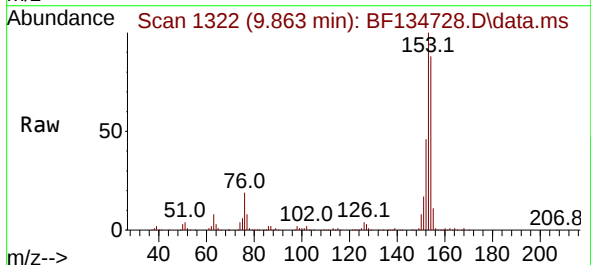
RT: 9.863 min Scan# 1322

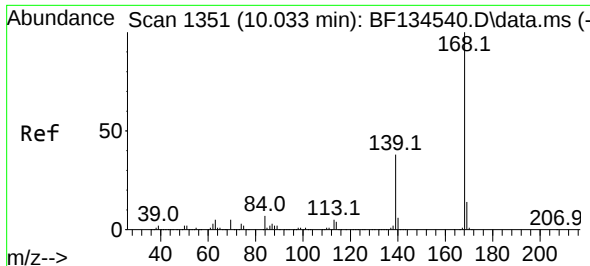
Delta R.T. -0.012 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

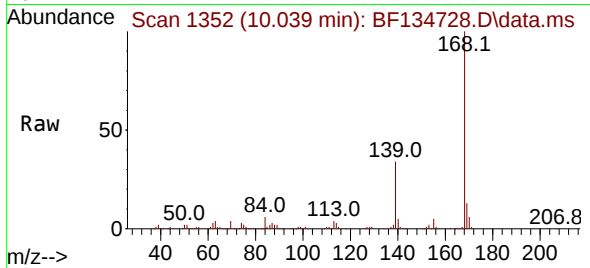
Tgt Ion:154	Resp:	121614
Ion Ratio	Lower	Upper
154	100	
153	113.4	90.0 135.0
152	51.8	42.4 63.6





#55
Dibenzenofuran
Concen: 6.783 ng
RT: 10.039 min Scan# 1351
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

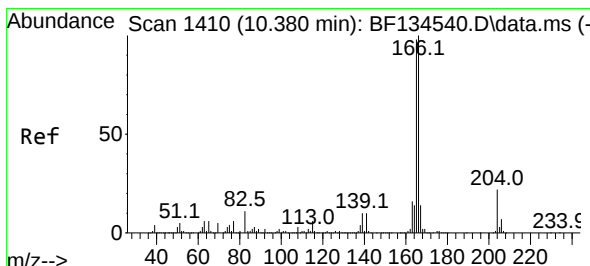
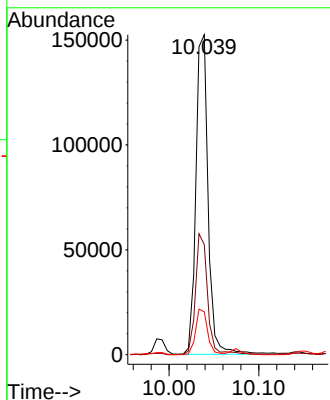
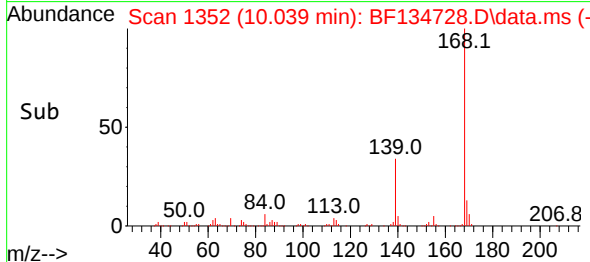
Instrument :
BNA_F
ClientSampleId :
WC-19DL



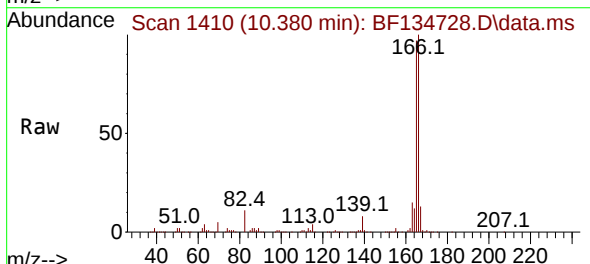
Tgt Ion:168 Resp: 144399
Ion Ratio Lower Upper
168 100
139 34.4 33.4 50.2
169 13.4 10.6 15.8

Manual Integrations
APPROVED

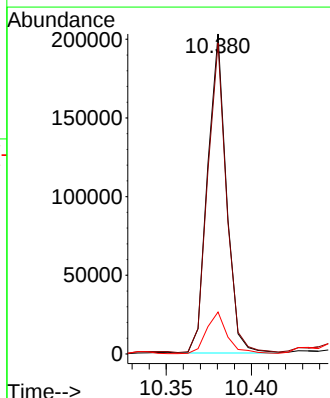
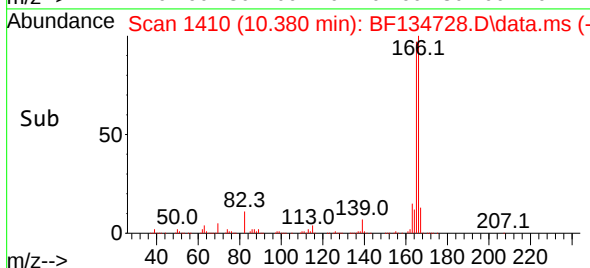
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

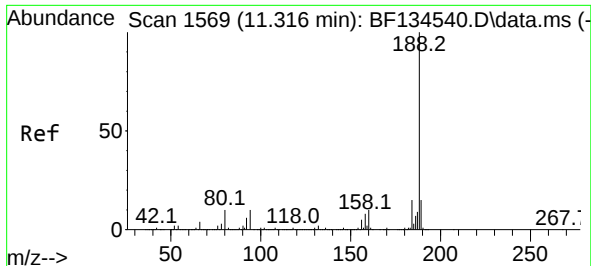


#58
Fluorene
Concen: 10.089 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29



Tgt Ion:166 Resp: 156441
Ion Ratio Lower Upper
166 100
165 97.2 74.5 111.7
167 13.1 10.6 16.0





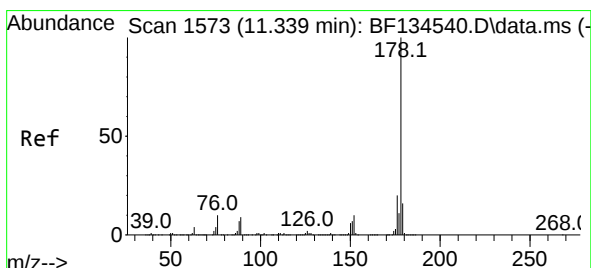
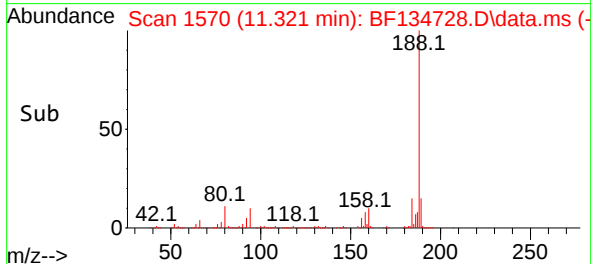
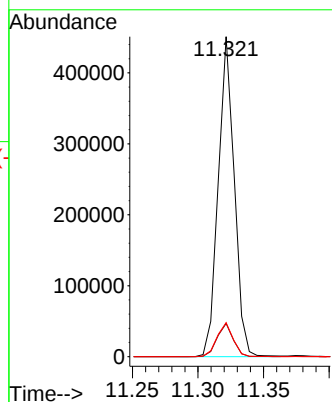
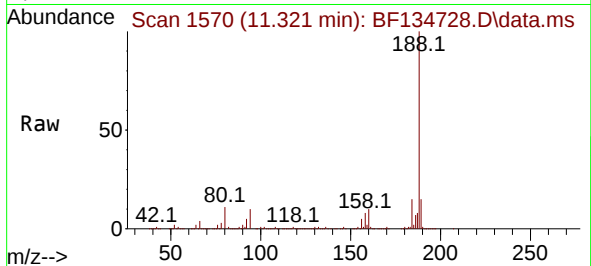
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Instrument :
BNA_F
ClientSampleId :
WC-19DL

Tgt Ion:188 Resp: 38371
Ion Ratio Lower Upper
188 100
94 10.3 5.1 7.7
80 10.7 6.6 9.8

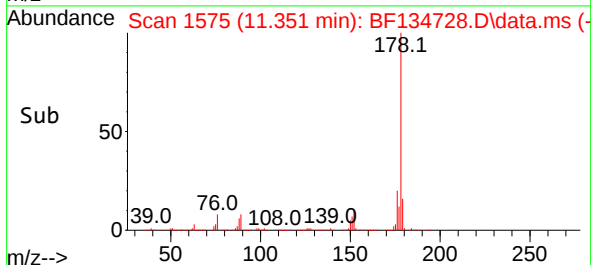
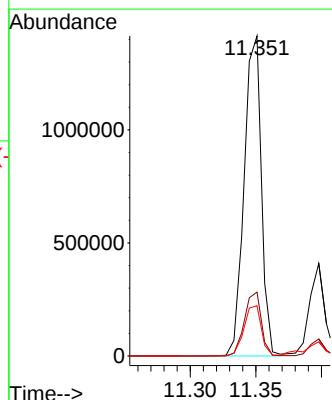
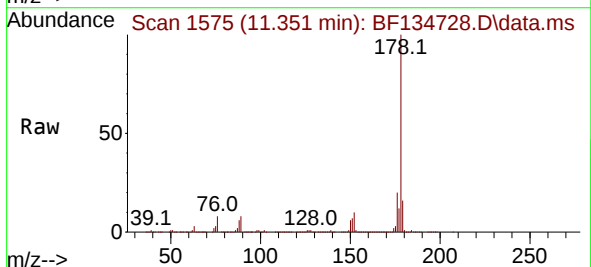
Manual Integrations
APPROVED

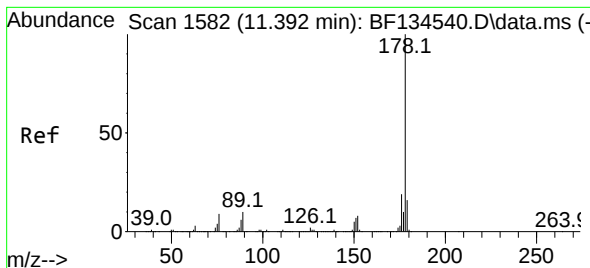
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#71
Phenanthrene
Concen: 63.543 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Tgt Ion:178 Resp: 1295091
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.6
179 15.7 12.7 19.1





#72

Anthracene

Concen: 15.147 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

WC-19DL

Tgt Ion:178 Resp: 31534

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

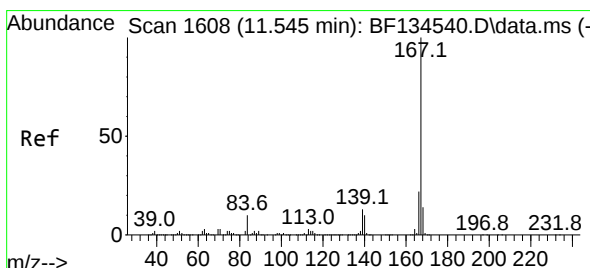
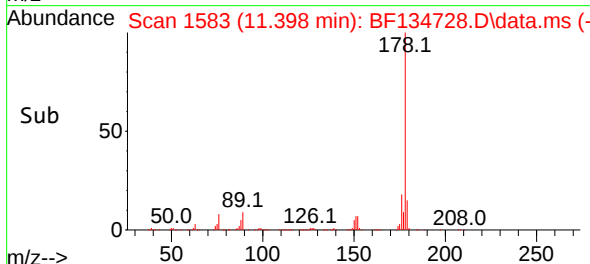
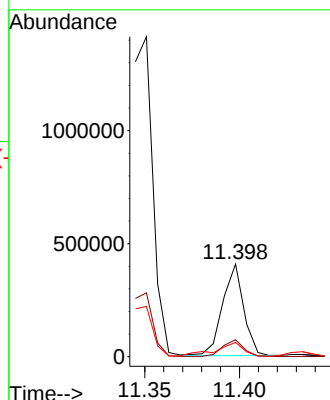
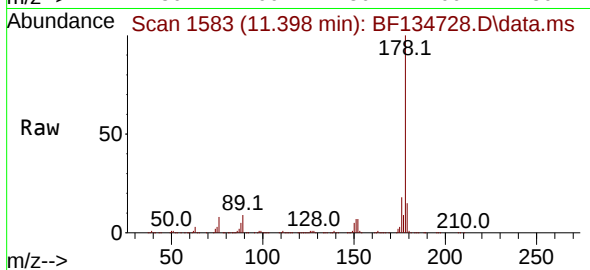
179 15.5 12.3 18.5

Manual Integrations

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Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#73

Carbazole

Concen: 6.578 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

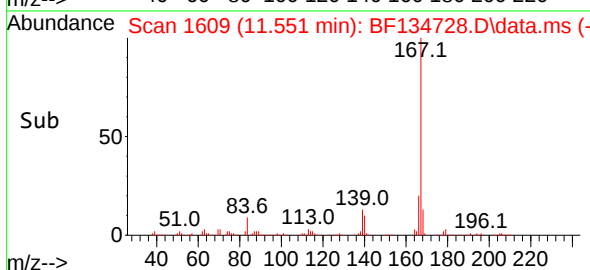
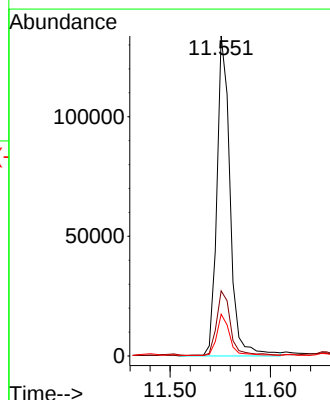
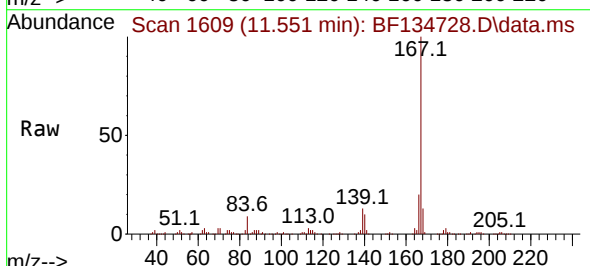
Tgt Ion:167 Resp: 122269

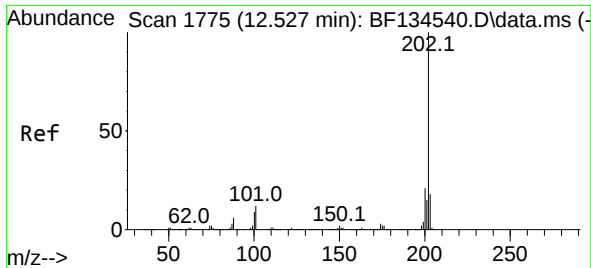
Ion Ratio Lower Upper

167 100

166 20.4 17.5 26.3

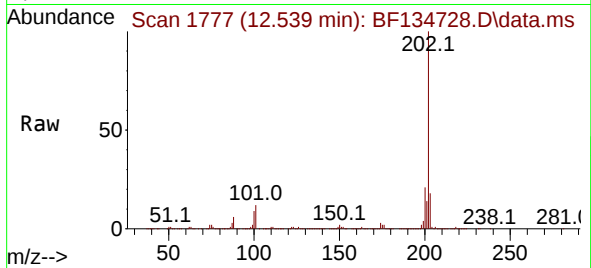
139 13.1 11.0 16.4





#75
Fluoranthene
Concen: 54.713 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

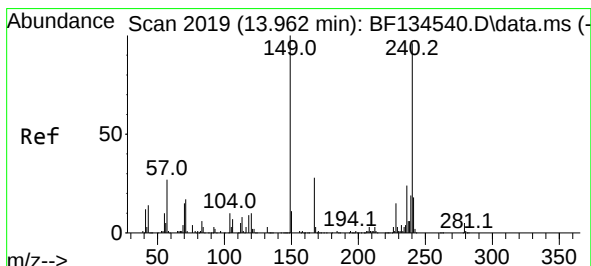
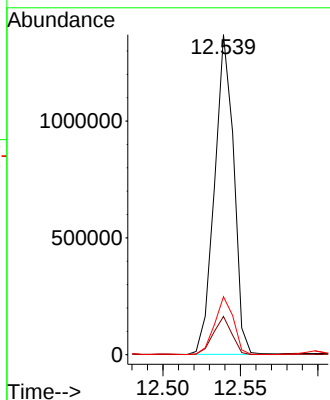
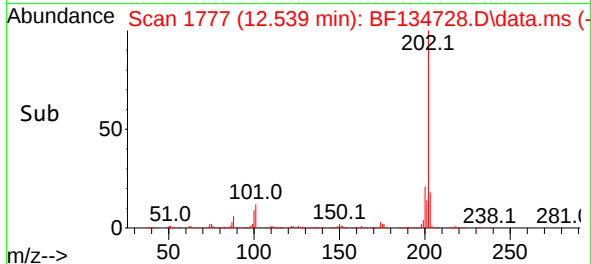
Instrument :
BNA_F
ClientSampleId :
WC-19DL



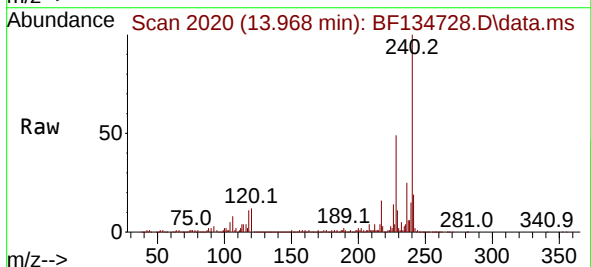
Tgt Ion:202 Resp: 117793
Ion Ratio Lower Upper
202 100
101 11.9 0.0 28.5
203 18.1 0.0 37.5

Manual Integrations
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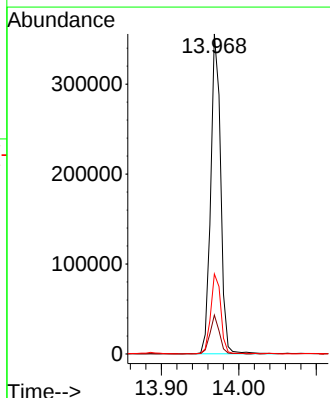
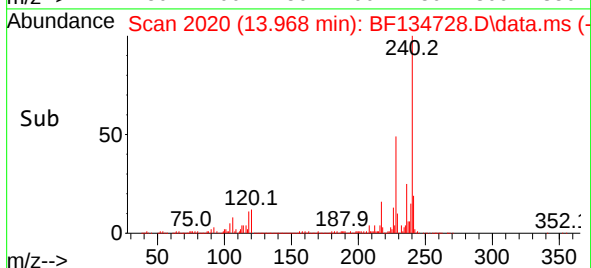
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

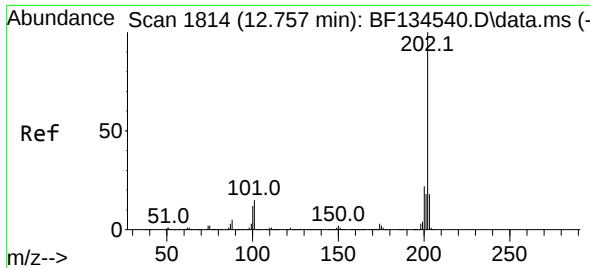


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29



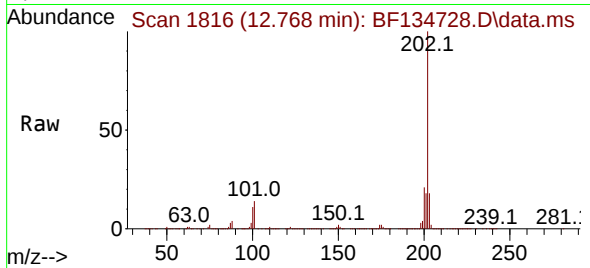
Tgt Ion:240 Resp: 316406
Ion Ratio Lower Upper
240 100
120 12.1 6.6 10.0#
236 25.0 20.2 30.2





#78
Pyrene
Concen: 39.404 ng
RT: 12.768 min Scan# 1816
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

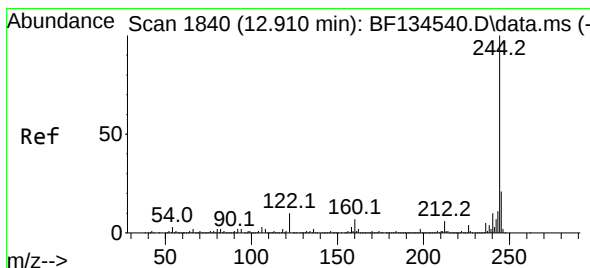
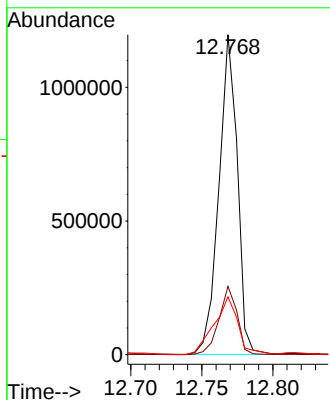
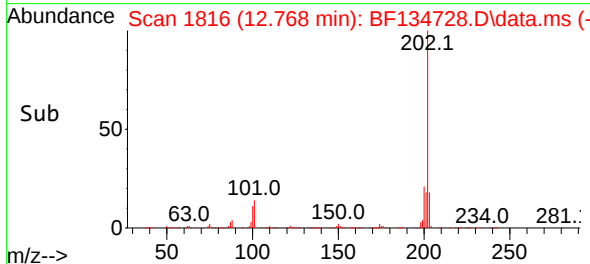
Instrument :
BNA_F
ClientSampleId :
WC-19DL



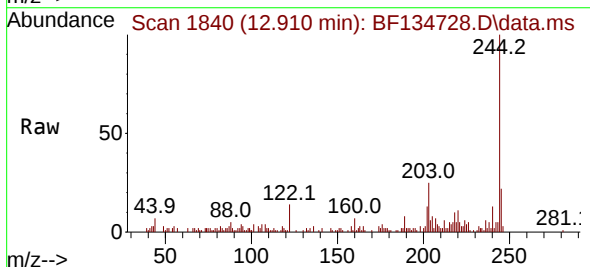
Tgt Ion:202 Resp: 1078834
Ion Ratio Lower Upper
202 100
200 21.3 15.8 23.8
203 18.1 13.5 20.3

Manual Integrations
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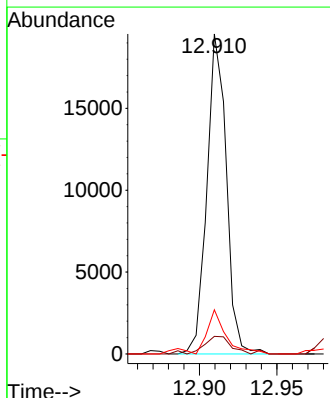
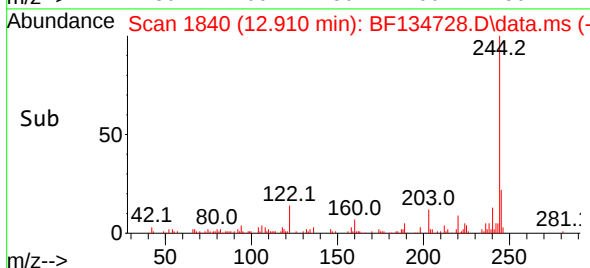
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

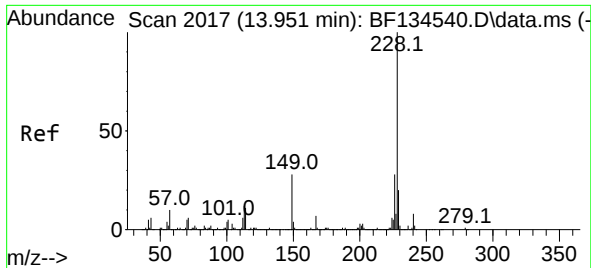


#79
Terphenyl-d14
Concen: 0.950 ng
RT: 12.910 min Scan# 1840
Delta R.T. -0.012 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29



Tgt Ion:244 Resp: 17048
Ion Ratio Lower Upper
244 100
212 5.5 5.6 8.4#
122 13.8 8.0 12.0#





#81
Benzo(a)anthracene
Concen: 19.729 ng
RT: 13.962 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

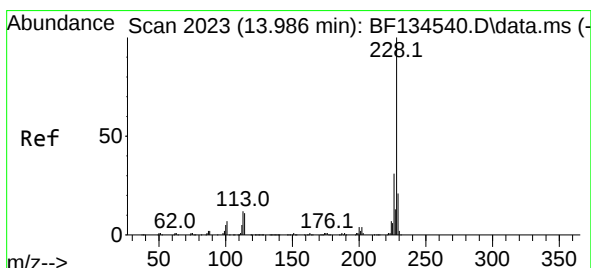
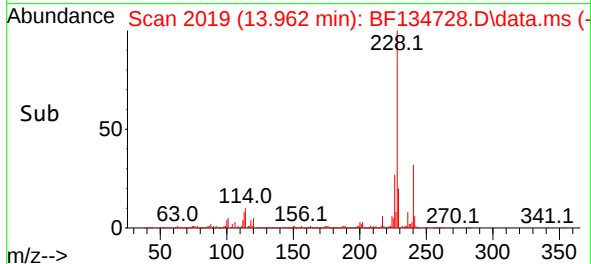
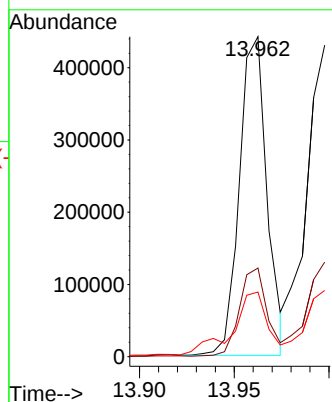
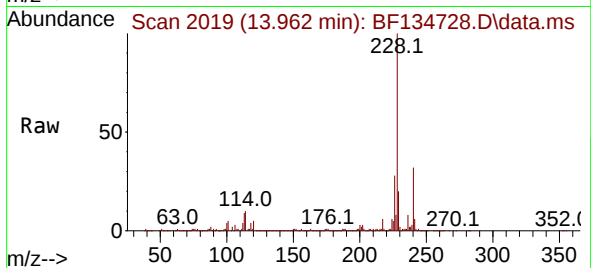
WC-19DL

Tgt Ion:228 Resp: 446350
Ion Ratio Lower Upper
228 100
226 27.7 22.3 33.5
229 20.2 15.8 23.6

Manual Integrations

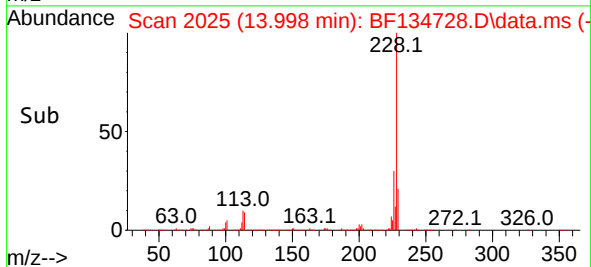
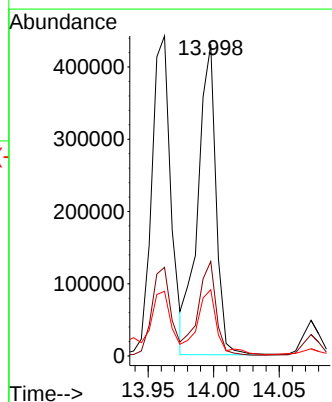
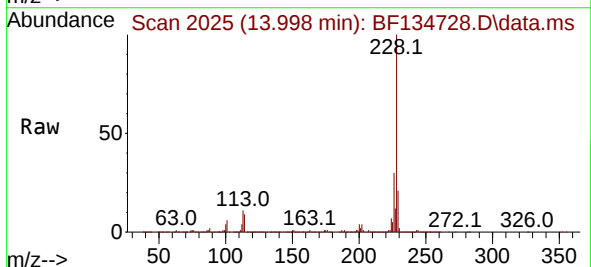
APPROVED

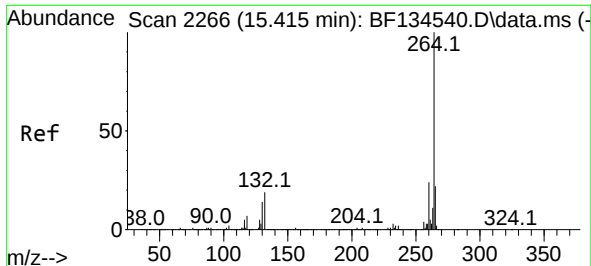
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#83
Chrysene
Concen: 18.920 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

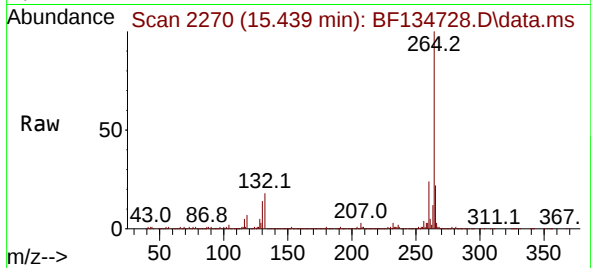
Tgt Ion:228 Resp: 417038
Ion Ratio Lower Upper
228 100
226 30.4 24.5 36.7
229 21.3 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

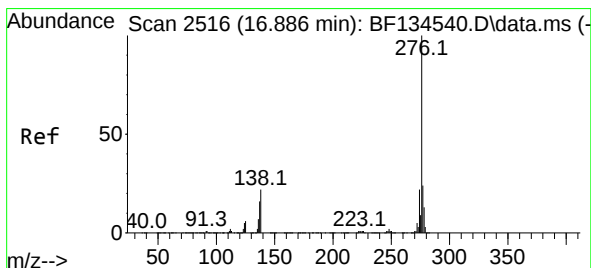
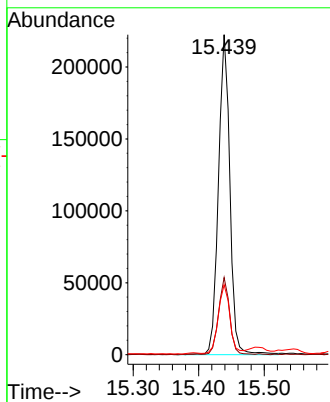
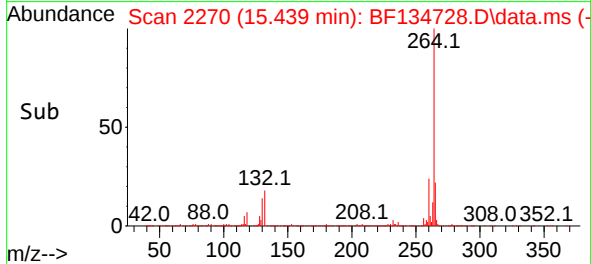
Instrument :
BNA_F
ClientSampleId :
WC-19DL



Tgt Ion:264 Resp: 26742
Ion Ratio Lower Upper
264 100
260 24.1 18.4 27.6
265 21.8 15.8 23.8

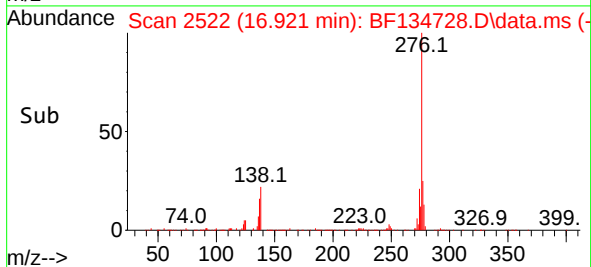
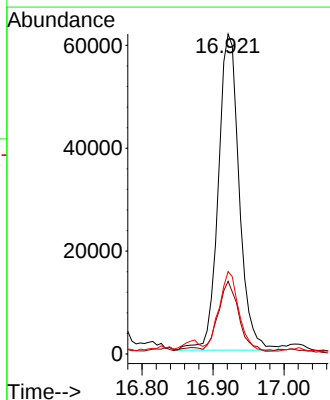
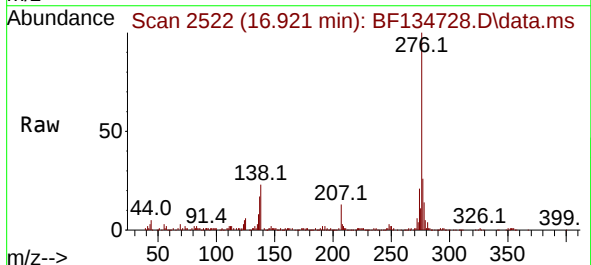
Manual Integrations
APPROVED

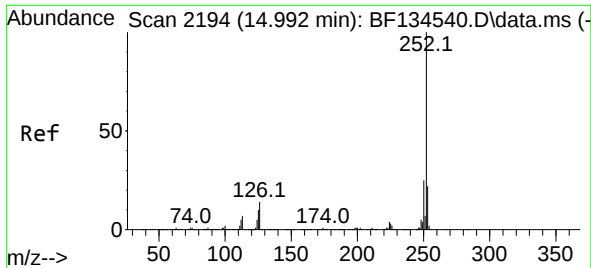
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.982 ng
RT: 16.921 min Scan# 2522
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

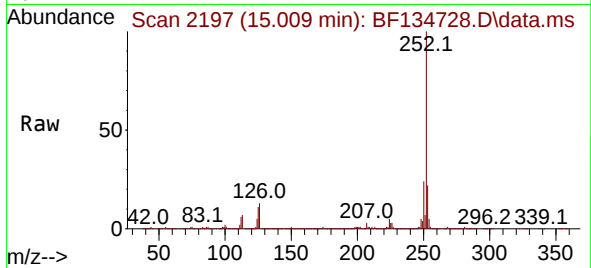
Tgt Ion:276 Resp: 125538
Ion Ratio Lower Upper
276 100
138 21.1 14.2 21.4
277 23.9 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 23.247 ng m
RT: 15.009 min Scan# 2194
Delta R.T. -0.000 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

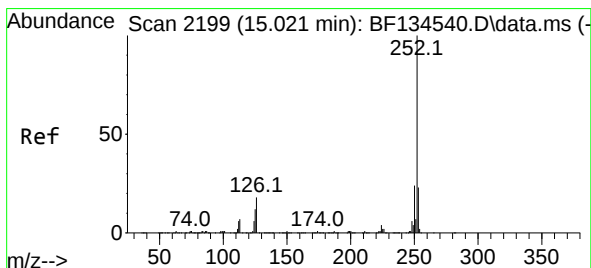
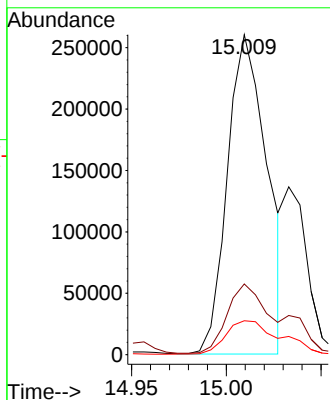
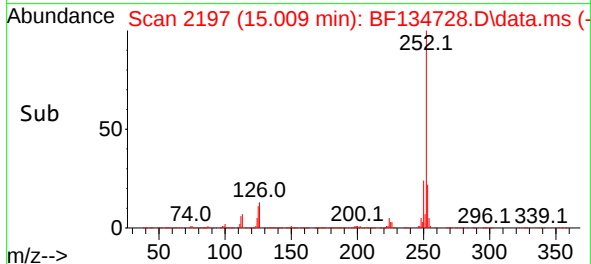
Instrument :
BNA_F
ClientSampleId :
WC-19DL



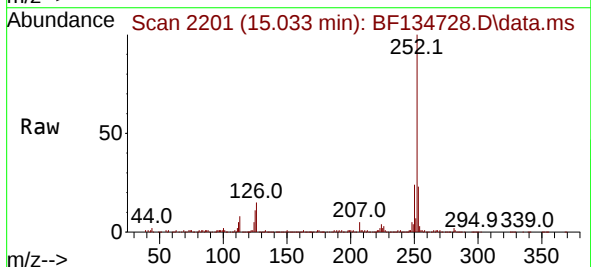
Tgt Ion:252 Resp: 379154
Ion Ratio Lower Upper
252 100
253 22.1 17.3 25.9
125 10.6 6.0 9.0

Manual Integrations
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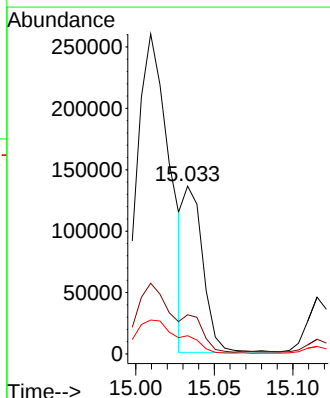
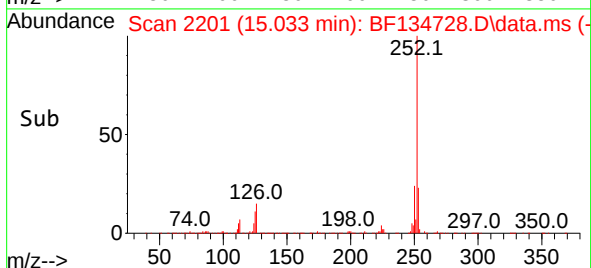
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

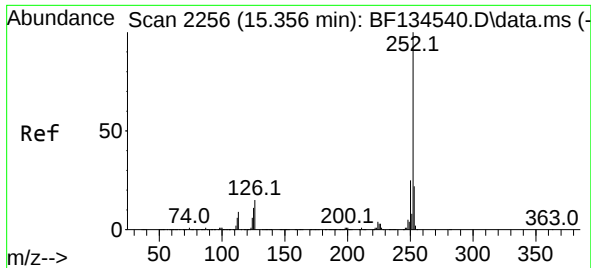


#89
Benzo(k)fluoranthene
Concen: 7.135 ng m
RT: 15.033 min Scan# 2201
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29



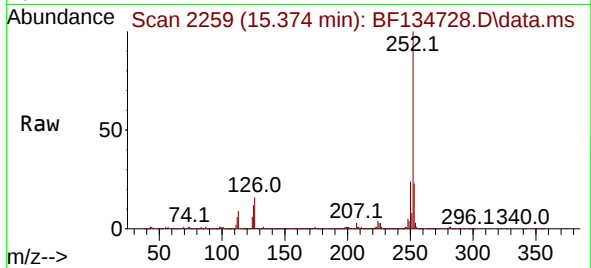
Tgt Ion:252 Resp: 115929
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 10.9 6.3 9.5





#90
Benzo(a)pyrene
Concen: 16.880 ng
RT: 15.374 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

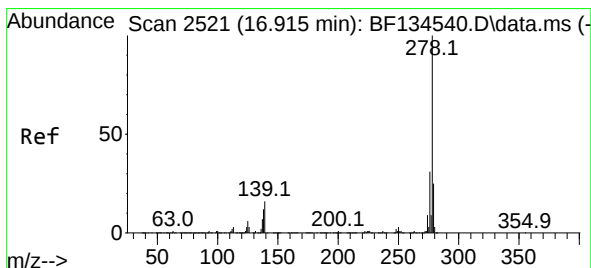
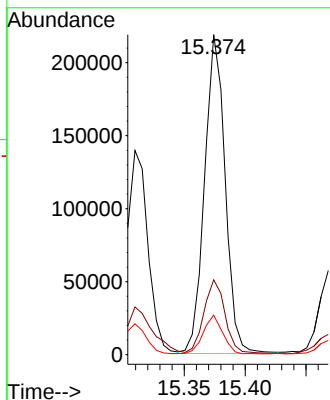
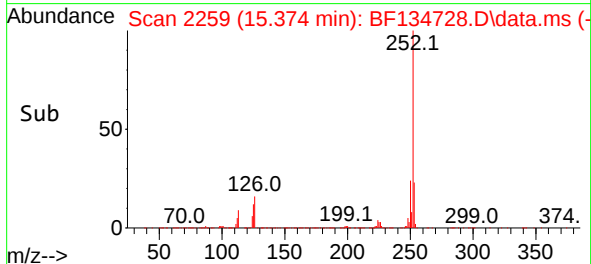
Instrument :
BNA_F
ClientSampleId :
WC-19DL



Tgt Ion:252 Resp: 256699
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.4
125 12.3 6.2 9.4

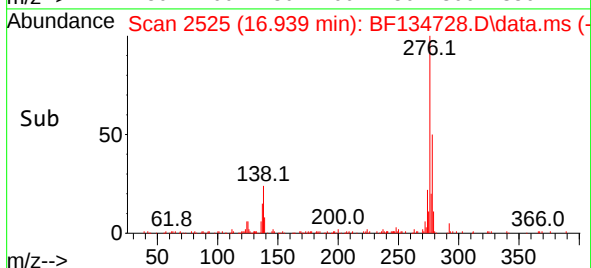
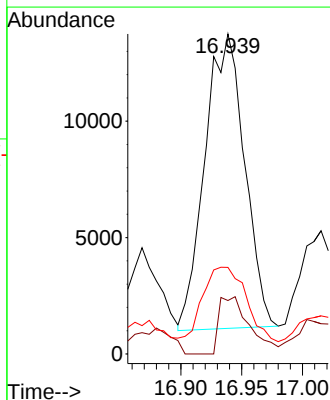
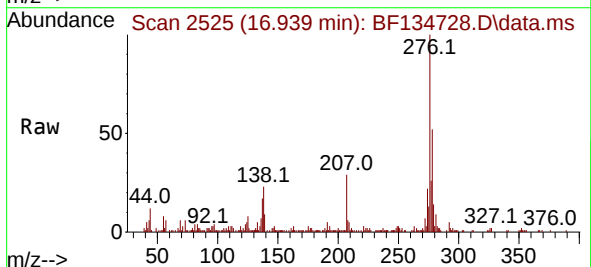
Manual Integrations
APPROVED

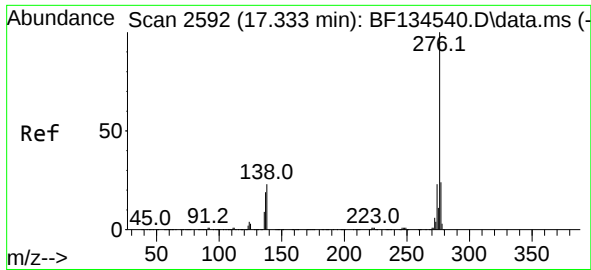
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.256 ng
RT: 16.939 min Scan# 2525
Delta R.T. -0.012 min
Lab File: BF134728.D
Acq: 11 Aug 2023 12:29

Tgt Ion:278 Resp: 28678
Ion Ratio Lower Upper
278 100
139 16.7 10.0 15.0#
279 27.0 19.7 29.5





#92

Benzo(g,h,i)perylene

Concen: 9.195 ng

RT: 17.374 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF134728.D

Acq: 11 Aug 2023 12:29

Instrument :

BNA_F

ClientSampleId :

WC-19DL

Tgt Ion:276 Resp: 119220

Ion Ratio Lower Upper

276 100

277 26.3 19.0 28.6

138 24.6 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023

