

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136290.D
 Acq On : 29 Nov 2023 18:43
 Operator : CG\JU
 Sample : 05503-02DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 358DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Nov 29 23:48:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	124353	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	491874	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	210109	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	292651	20.000	ng	0.00
76) Chrysene-d12	13.980	240	241795	20.000	ng	-0.01
86) Perylene-d12	15.463	264	282248	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	79420	8.889	ng	-0.01
7) Phenol-d6	6.428	99	99530	8.909	ng	-0.02
23) Nitrobenzene-d5	7.357	82	57835	6.213	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	18056	7.029	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	117422	7.138	ng	-0.01
79) Terphenyl-d14	12.922	244	95459	4.554	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	424287	15.346	ng	98
37) 2-Methylnaphthalene	8.792	142	265038	15.282	ng	97
38) 1-Methylnaphthalene	8.892	142	150957	8.923	ng	93
46) 1,1'-Biphenyl	9.257	154	75948	4.099	ng	94
49) Acenaphthylene	9.698	152	45413	2.212	ng	# 93
52) Acenaphthene	9.869	154	357069	27.517	ng	96
55) Dibenzofuran	10.045	168	404232	20.935	ng	97
58) Fluorene	10.386	166	510815	33.726	ng	98
71) Phenanthrene	11.357	178	2000750	121.639	ng	99
72) Anthracene	11.404	178	287542	17.432	ng	98
73) Carbazole	11.557	167	56662	4.039	ng	98
75) Fluoranthene	12.551	202	1337836	80.120	ng	96
78) Pyrene	12.780	202	981452	37.063	ng	98
81) Benzo(a)anthracene	13.974	228	366841	20.426	ng	98
83) Chrysene	14.010	228	268936m	15.509	ng	
87) Indeno(1,2,3-cd)pyrene	16.957	276	32311	4.125	ng	93
88) Benzo(b)fluoranthene	15.027	252	231140m	11.673	ng	
89) Benzo(k)fluoranthene	15.057	252	92141m	4.899	ng	
90) Benzo(a)pyrene	15.398	252	132028	8.156	ng	95
91) Dibenzo(a,h)anthracene	16.974	278	12179	3.392	ng	# 84
92) Benzo(g,h,i)perylene	17.410	276	24297	3.274	ng	96

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

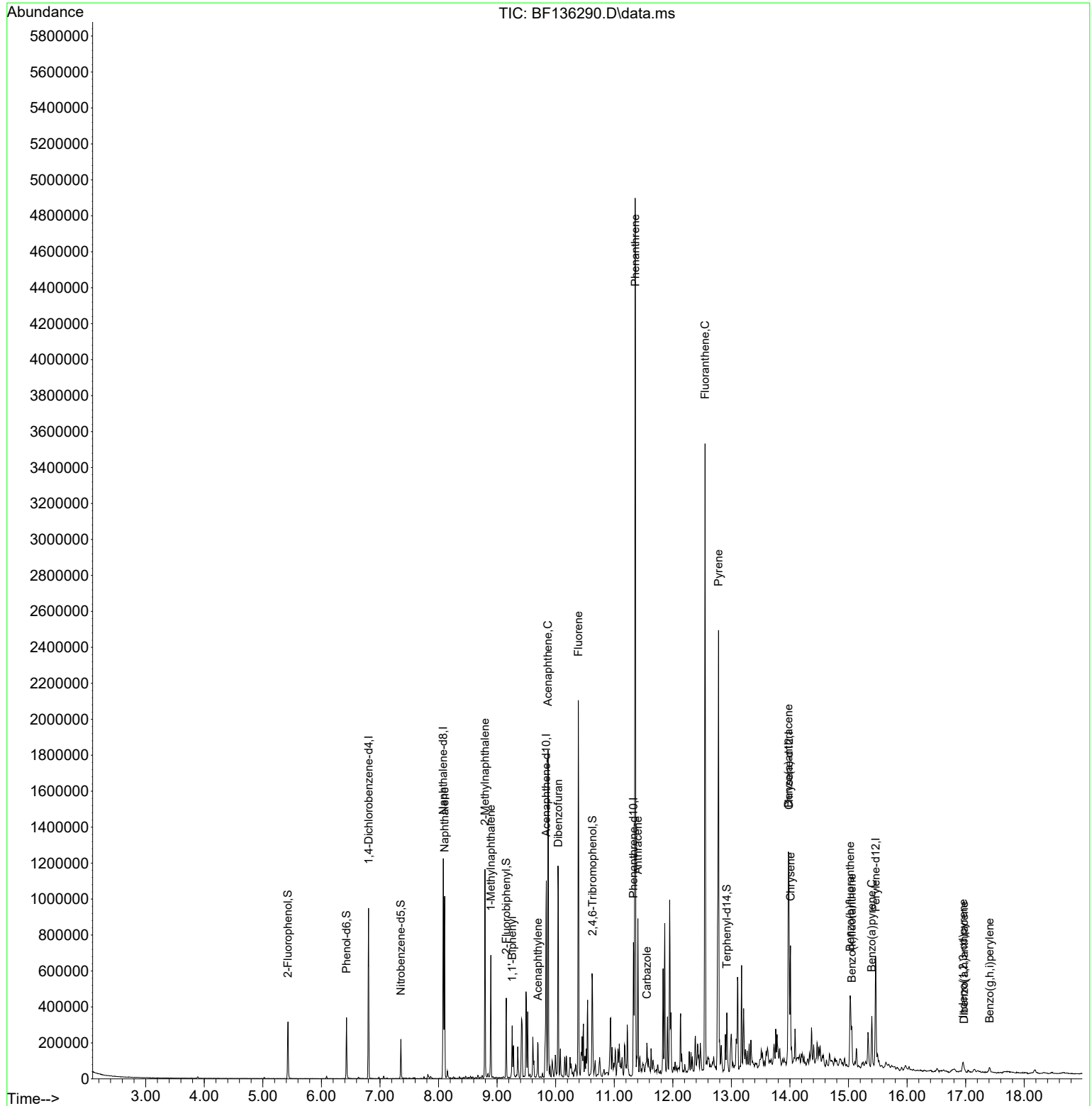
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
Data File : BF136290.D
Acq On : 29 Nov 2023 18:43
Operator : CG\JU
Sample : 05503-02DL 10X
Misc :
ALS Vial : 9 Sample Multiplier: 1

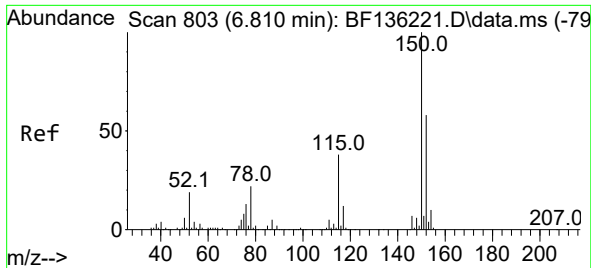
Instrument :
BNA_F
ClientSampleId :
358DL

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Supervised By :mohammad ahmed 12/01/2023

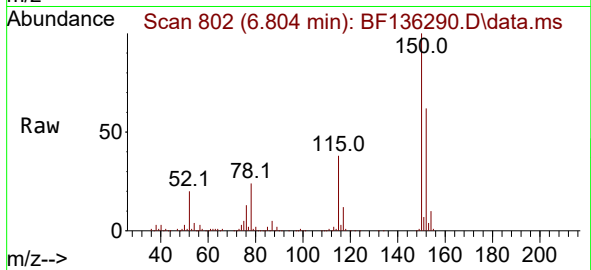
Quant Time: Nov 29 23:48:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 28 03:04:20 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

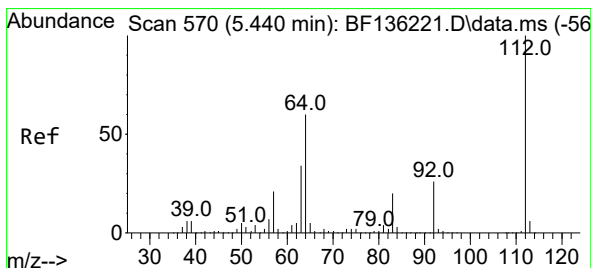
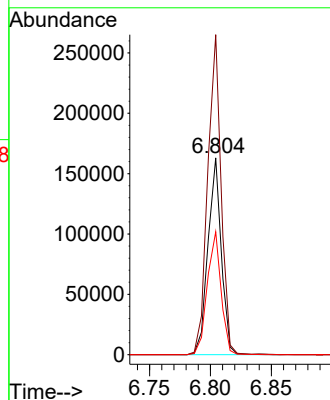
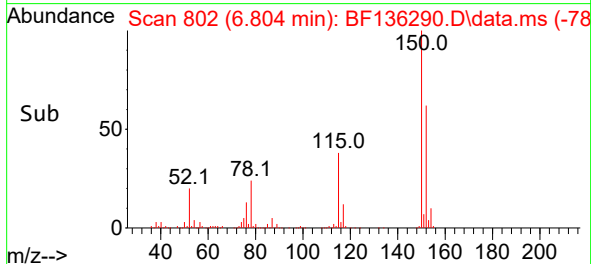
Instrument :
BNA_F
ClientSampleId :
358DL



Tgt Ion:152 Resp: 12435
Ion Ratio Lower Upper
152 100
150 162.5 137.8 206.8
115 62.4 52.7 79.1

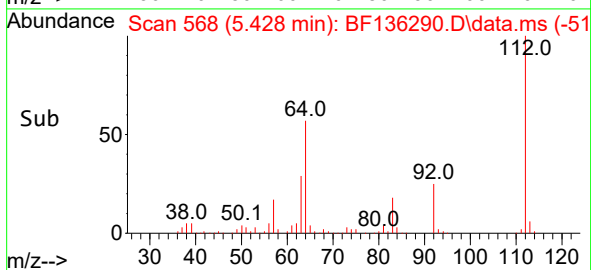
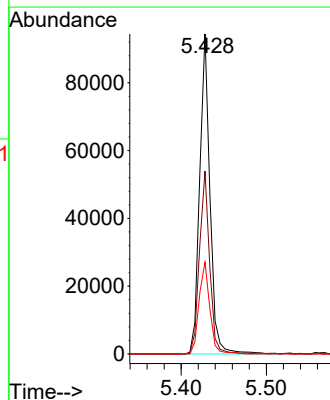
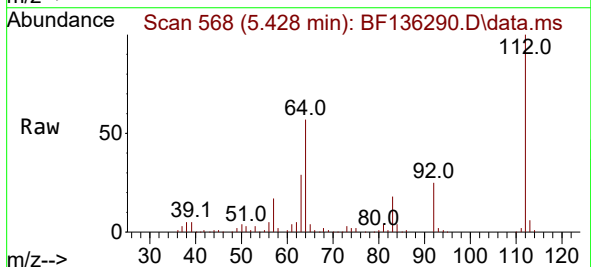
Manual Integrations
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#5
2-Fluorophenol
Concen: 8.889 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

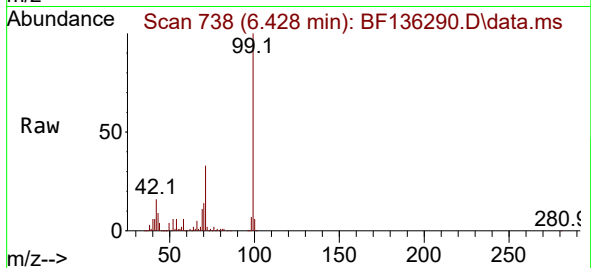
Tgt Ion:112 Resp: 79420
Ion Ratio Lower Upper
112 100
64 57.1 48.2 72.4
63 28.7 27.0 40.6





#7
Phenol-d6
Concen: 8.909 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

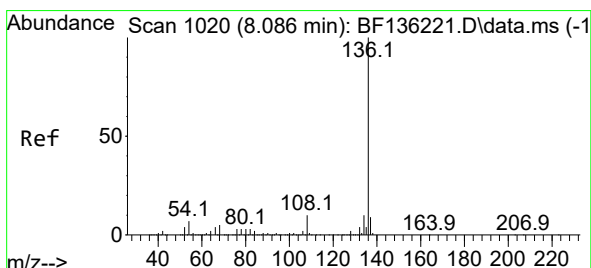
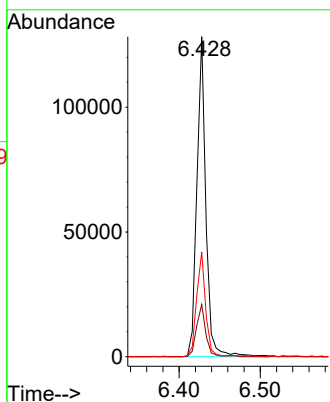
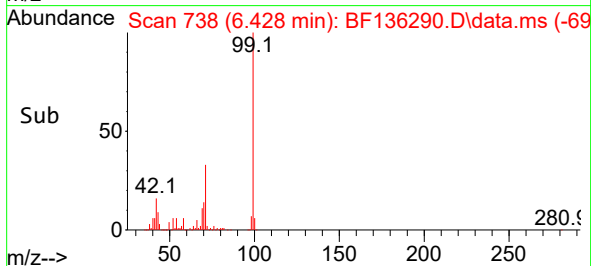
Instrument :
BNA_F
ClientSampleId :
358DL



Tgt Ion: 99 Resp: 99530
Ion Ratio Lower Upper
99 100
42 16.3 15.0 22.6
71 32.8 28.9 43.3

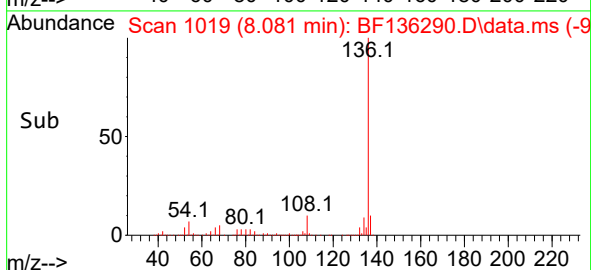
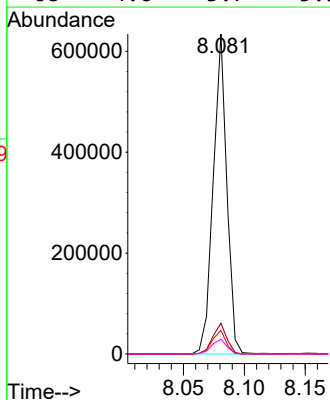
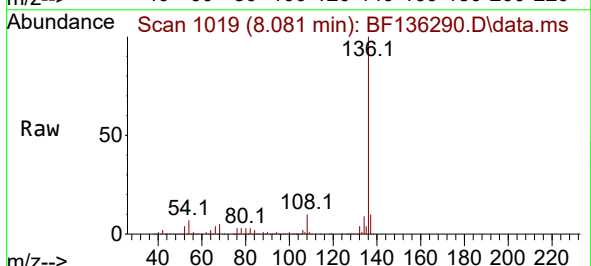
Manual Integrations
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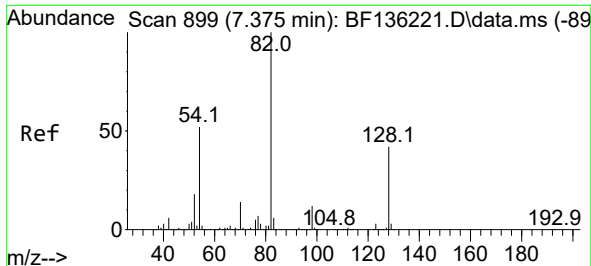
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

Tgt Ion:136 Resp: 491874
Ion Ratio Lower Upper
136 100
137 9.6 7.4 11.2
54 7.4 5.5 8.3
68 4.6 3.7 5.5





#23

Nitrobenzene-d5

Concen: 6.213 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136290.D

Acq: 29 Nov 2023 18:43

Instrument :

BNA_F

ClientSampleId :

358DL

Tgt Ion: 82 Resp: 5783

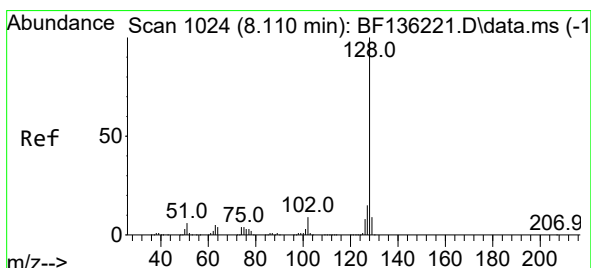
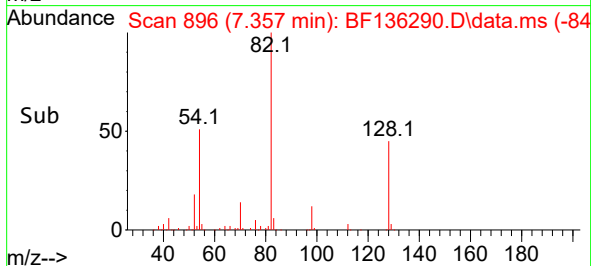
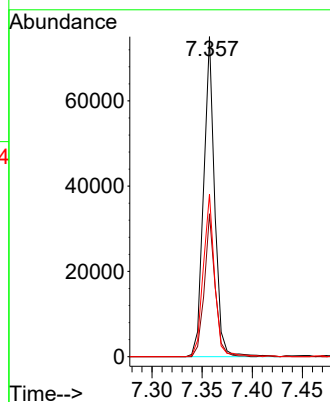
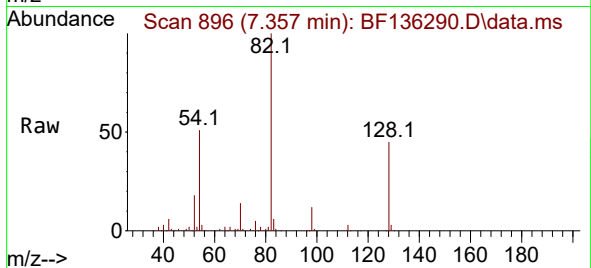
Ion	Ratio	Lower	Upper
82	100		
128	44.6	33.4	50.2
54	50.8	41.7	62.5

Manual Integrations

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Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 15.346 ng

RT: 8.104 min Scan# 1023

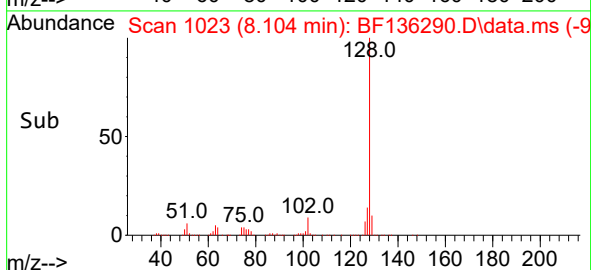
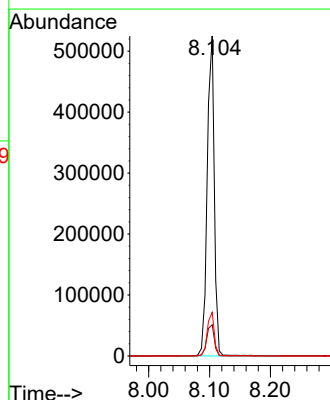
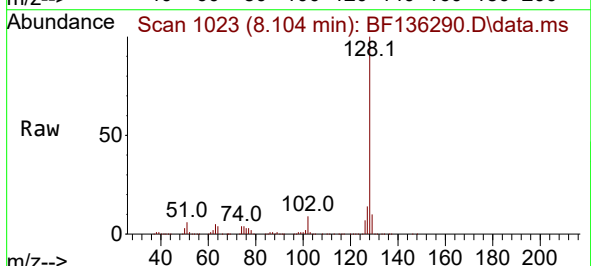
Delta R.T. -0.006 min

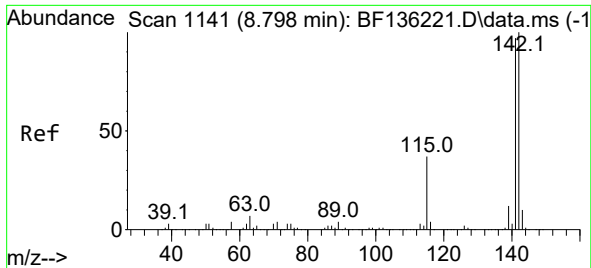
Lab File: BF136290.D

Acq: 29 Nov 2023 18:43

Tgt Ion:128 Resp: 424287

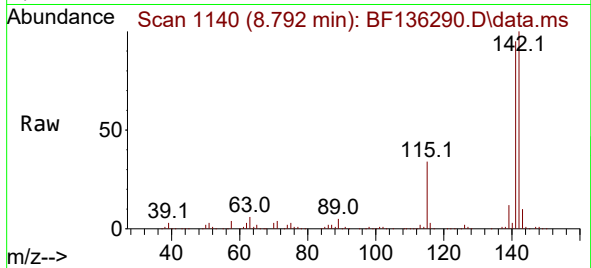
Ion	Ratio	Lower	Upper
128	100		
129	9.8	7.3	10.9
127	13.7	11.8	17.6





#37
2-Methylnaphthalene
Concen: 15.282 ng
RT: 8.792 min Scan# 1141
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

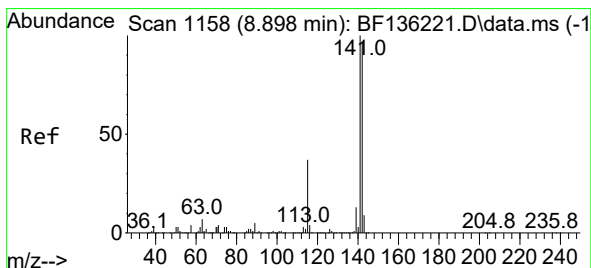
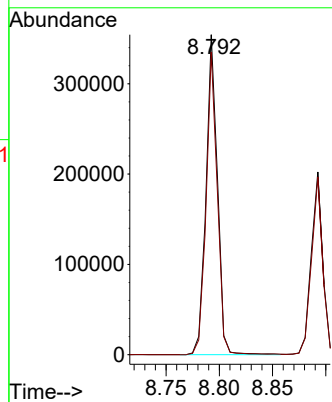
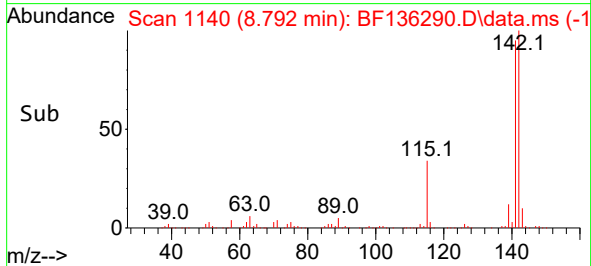
Instrument :
BNA_F
Client SampleId :
358DL



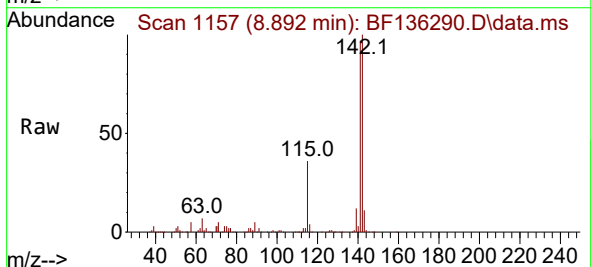
Tgt Ion:142 Resp: 265038
Ion Ratio Lower Upper
142 100
141 94.5 77.8 116.8

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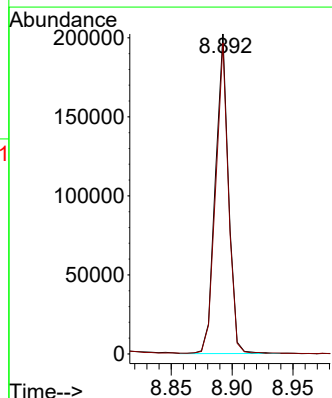
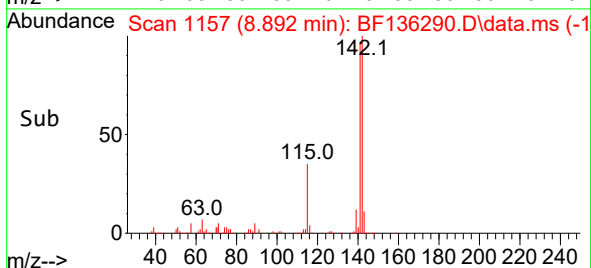
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

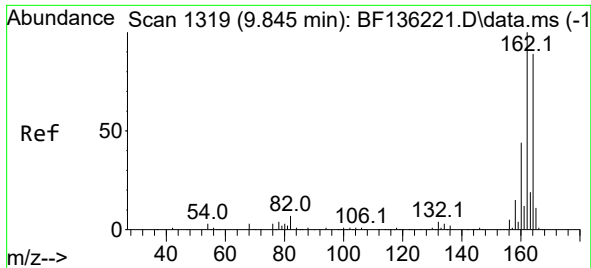


#38
1-Methylnaphthalene
Concen: 8.923 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



Tgt Ion:142 Resp: 150957
Ion Ratio Lower Upper
142 100
141 97.2 83.8 125.6





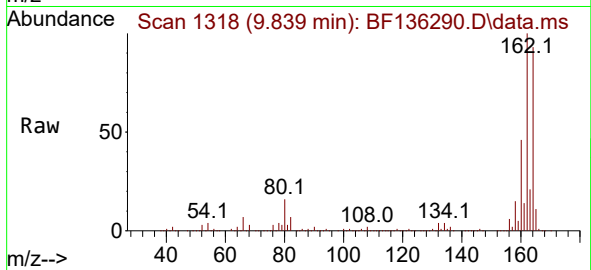
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

Instrument :

BNF_F

ClientSampleId :

358DL

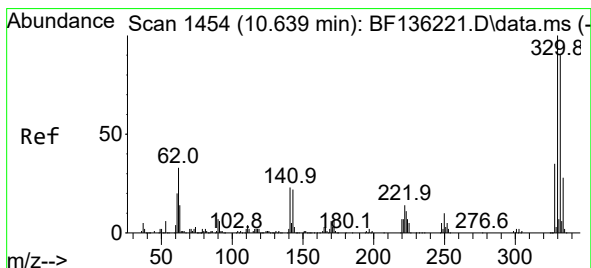
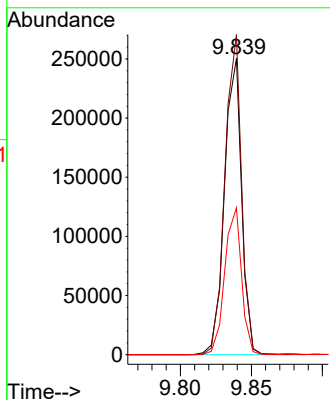
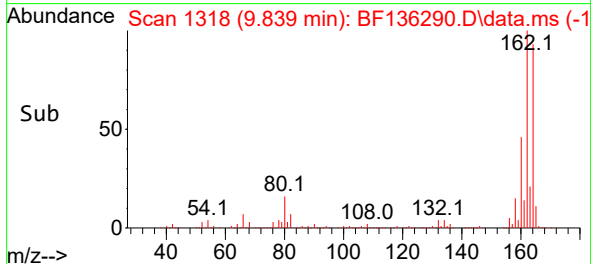


Tgt Ion:164 Resp: 210109
Ion Ratio Lower Upper
164 100
162 108.0 89.5 134.3
160 49.6 39.6 59.4

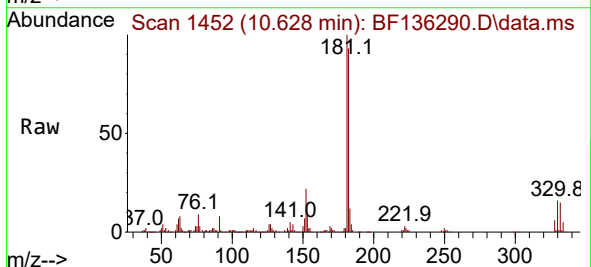
Manual Integrations

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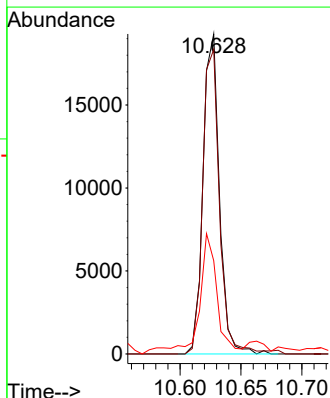
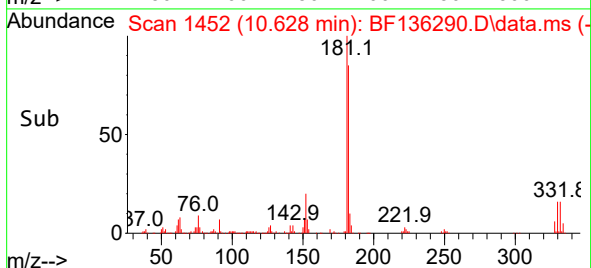
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

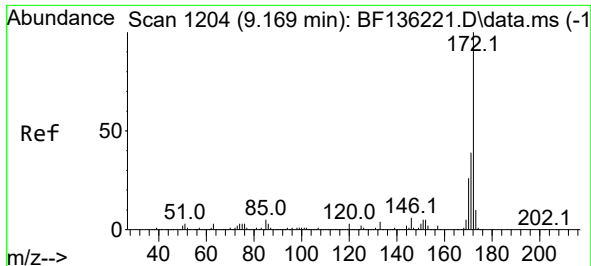


#42
2,4,6-Tribromophenol
Concen: 7.029 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



Tgt Ion:330 Resp: 18056
Ion Ratio Lower Upper
330 100
332 98.1 73.0 109.6
141 41.4 24.2 36.2#





#45
2-Fluorobiphenyl
Concen: 7.138 ng
RT: 9.157 min Scan# 11742
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

Instrument :

BNA_F

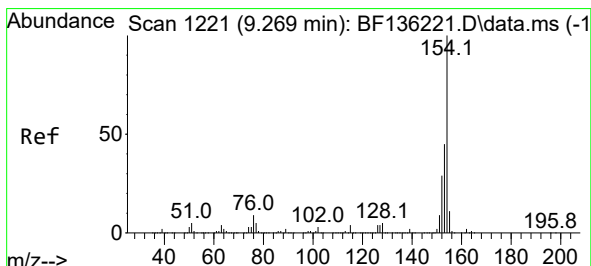
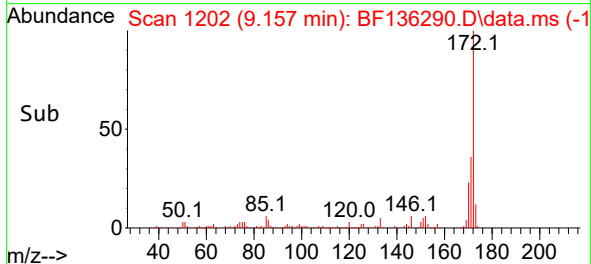
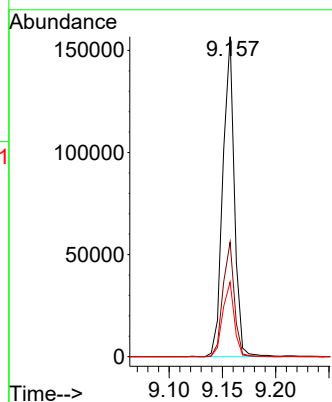
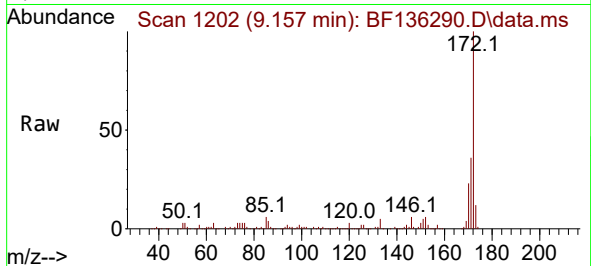
ClientSampleId :

358DL

Tgt Ion:172 Resp: 11742
Ion Ratio Lower Upper
172 100
171 35.9 31.5 47.3
170 23.4 20.8 31.2

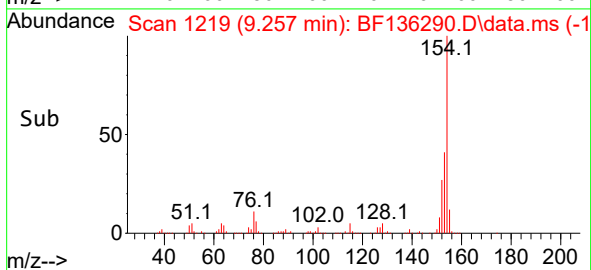
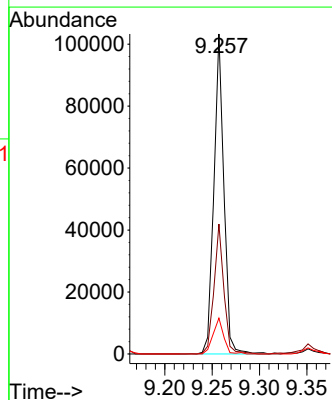
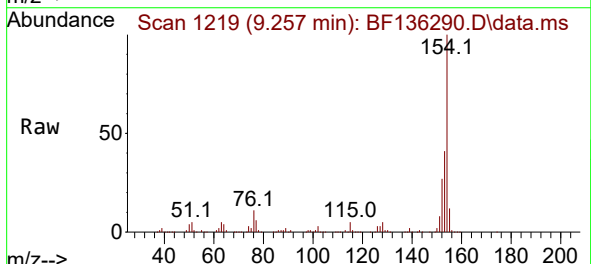
Manual Integrations
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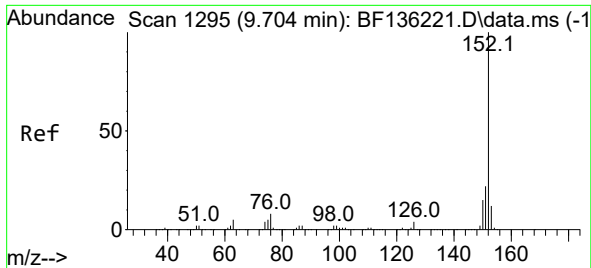
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#46
1,1'-Biphenyl
Concen: 4.099 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

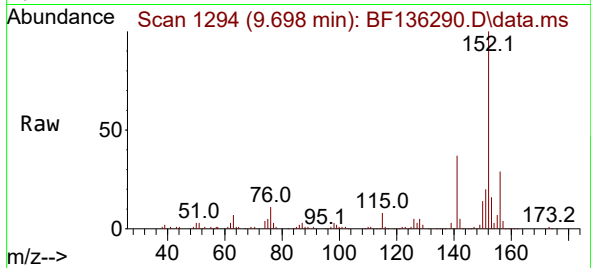
Tgt Ion:154 Resp: 75948
Ion Ratio Lower Upper
154 100
153 40.6 24.6 64.6
76 11.2 0.0 29.4





#49
Acenaphthylene
Concen: 2.212 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

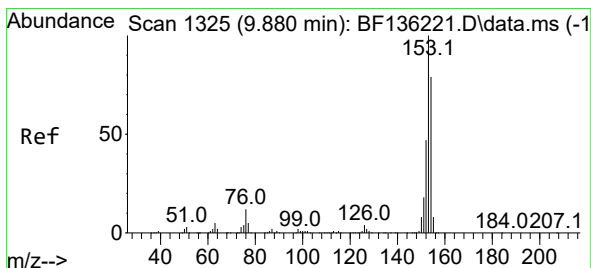
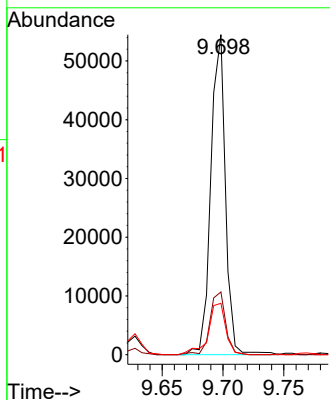
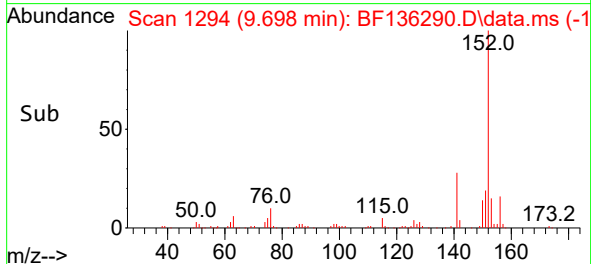
Instrument :
BNA_F
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358DL



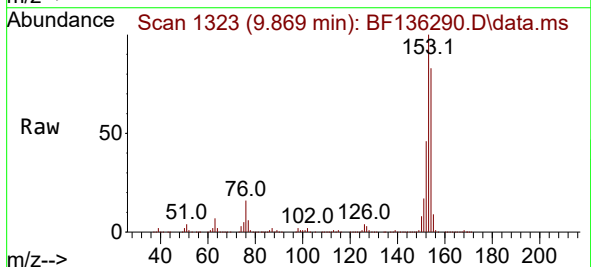
Tgt Ion:152 Resp: 4541
Ion Ratio Lower Upper
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151 19.6 17.5 26.3
153 16.0 9.6 14.4

Manual Integrations
APPROVED

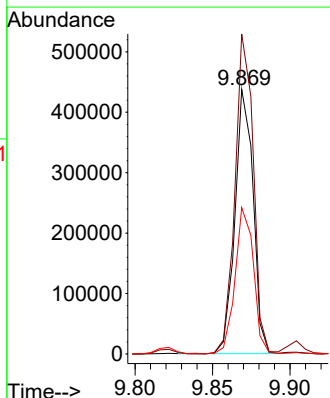
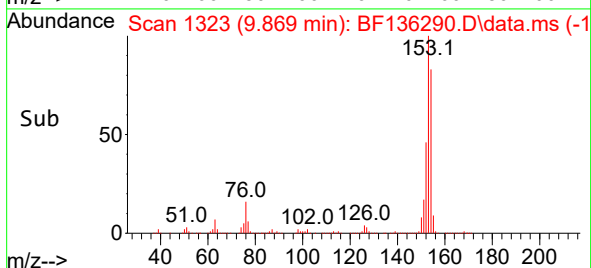
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

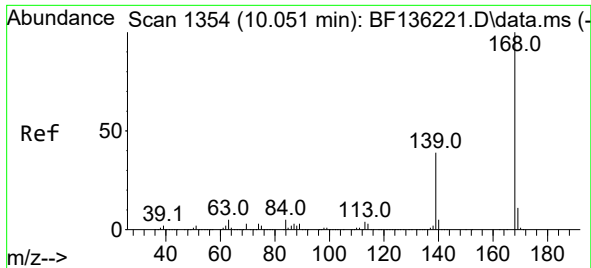


#52
Acenaphthene
Concen: 27.517 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



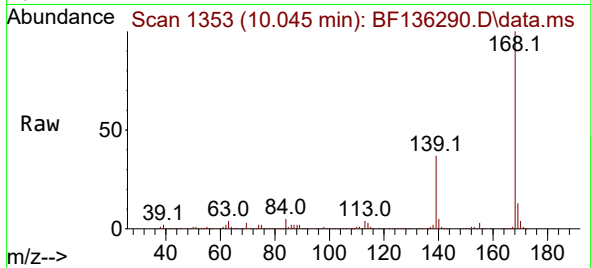
Tgt Ion:154 Resp: 357069
Ion Ratio Lower Upper
154 100
153 120.9 100.8 151.2
152 55.3 47.0 70.6





#55
Dibenzenofuran
Concen: 20.935 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

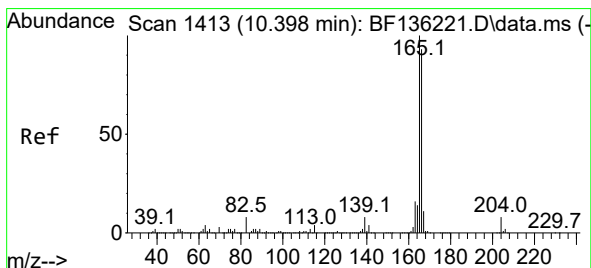
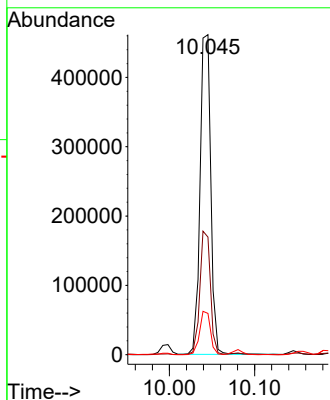
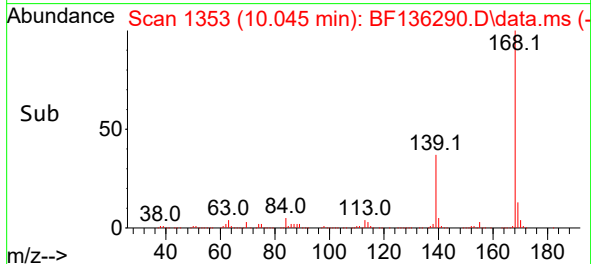
Instrument :
BNA_F
ClientSampleId :
358DL



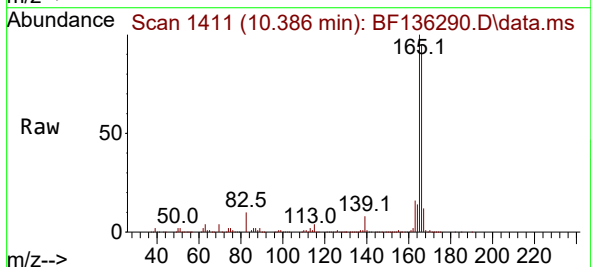
Tgt Ion:168 Resp: 404232
Ion Ratio Lower Upper
168 100
139 36.8 30.9 46.3
169 12.9 9.1 13.7

Manual Integrations
APPROVED

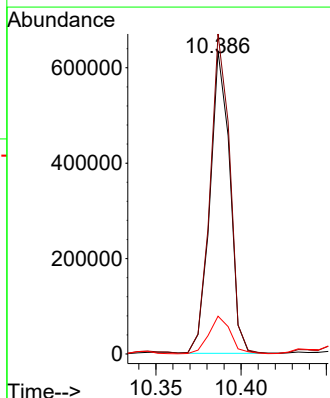
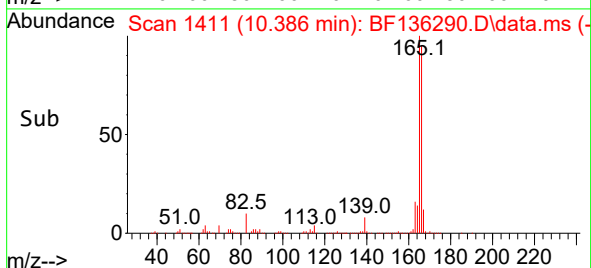
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

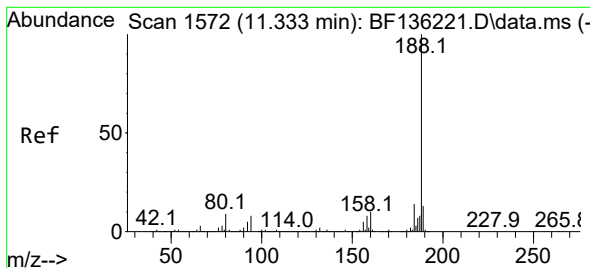


#58
Fluorene
Concen: 33.726 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



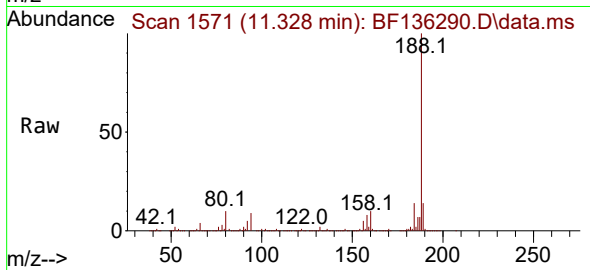
Tgt Ion:166 Resp: 510815
Ion Ratio Lower Upper
166 100
165 105.6 86.2 129.4
167 12.5 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.005 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

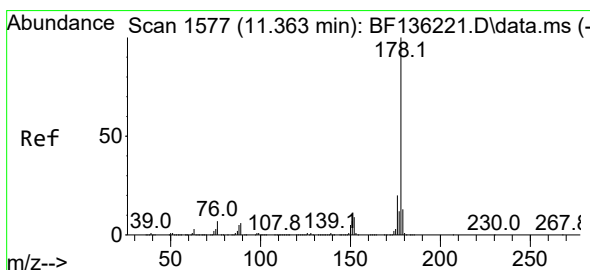
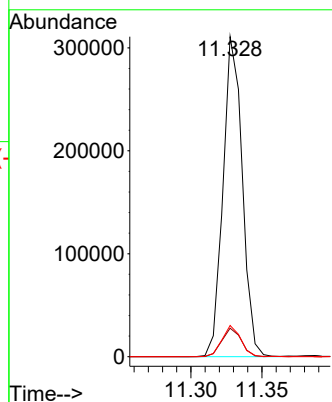
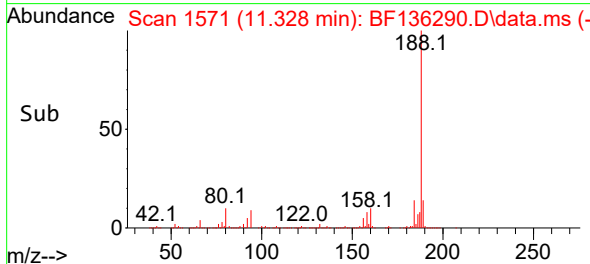
Instrument :
BNA_F
ClientSampleId :
358DL



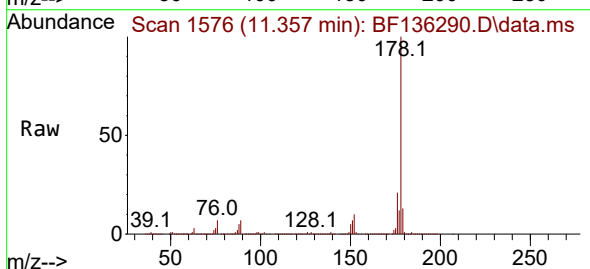
Tgt Ion:188 Resp: 29265
Ion Ratio Lower Upper
188 100
94 8.9 6.7 10.1
80 9.8 7.2 10.8

Manual Integrations
APPROVED

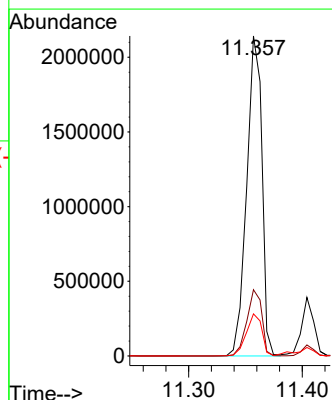
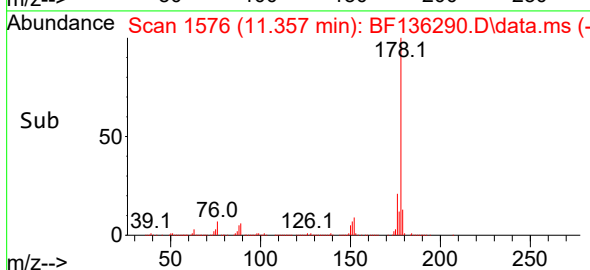
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

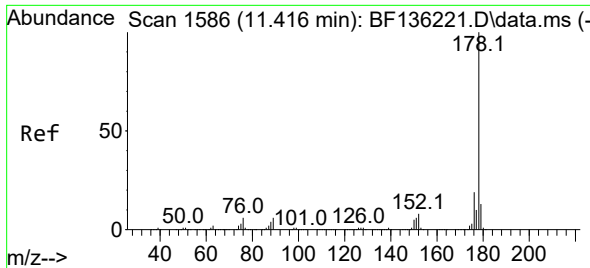


#71
Phenanthrene
Concen: 121.639 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



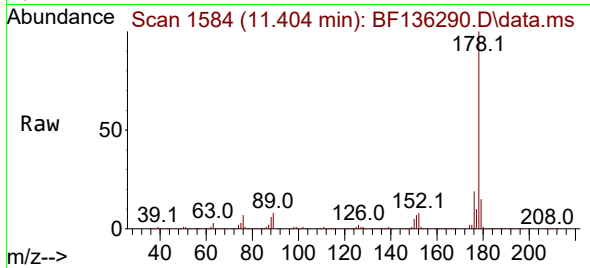
Tgt Ion:178 Resp: 2000750
Ion Ratio Lower Upper
178 100
176 20.7 16.2 24.2
179 13.1 10.3 15.5





#72
 Anthracene
 Concen: 17.432 ng
 RT: 11.404 min Scan# 1584
 Delta R.T. -0.012 min
 Lab File: BF136290.D
 Acq: 29 Nov 2023 18:43

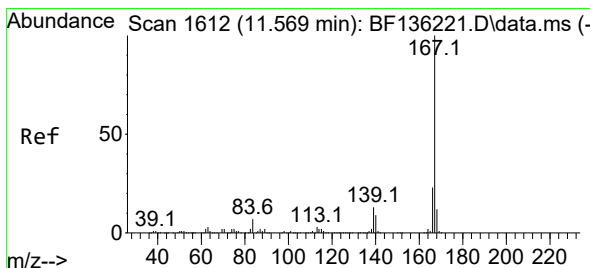
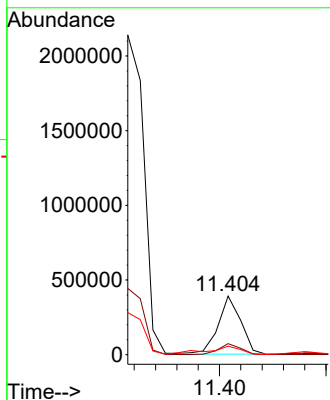
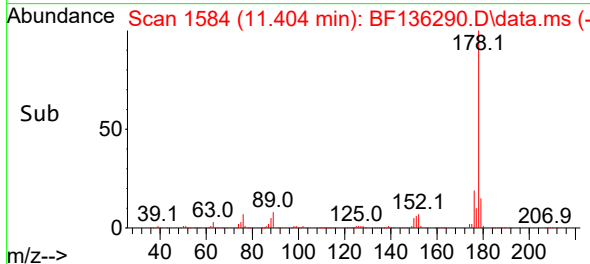
Instrument :
 BNA_F
 ClientSampleId :
 358DL



Tgt Ion:178 Resp: 28754
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.5 23.3
 179 14.6 10.5 15.7

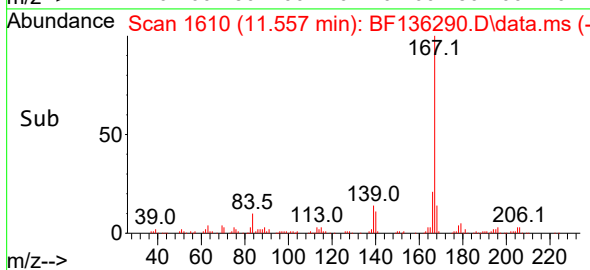
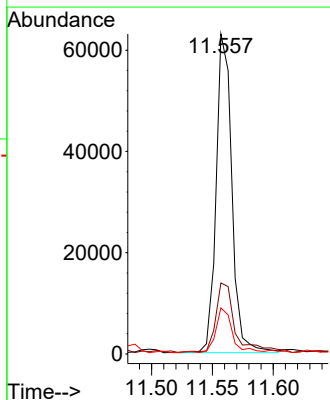
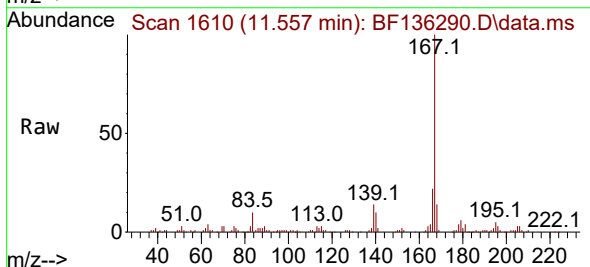
Manual Integrations
 APPROVED

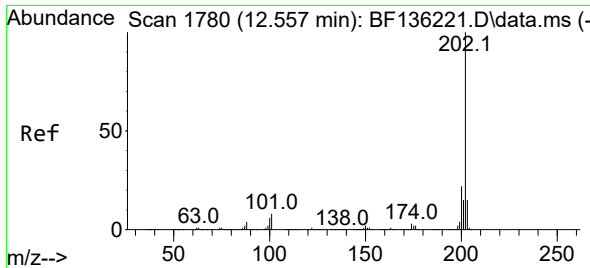
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#73
 Carbazole
 Concen: 4.039 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.012 min
 Lab File: BF136290.D
 Acq: 29 Nov 2023 18:43

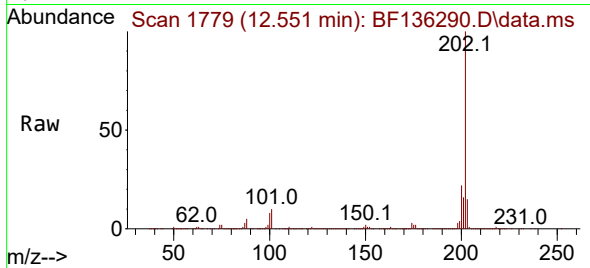
Tgt Ion:167 Resp: 56662
 Ion Ratio Lower Upper
 167 100
 166 22.2 18.4 27.6
 139 14.4 10.5 15.7





#75
Fluoranthene
Concen: 80.120 ng
RT: 12.551 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

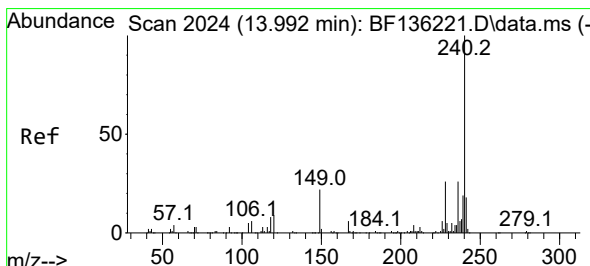
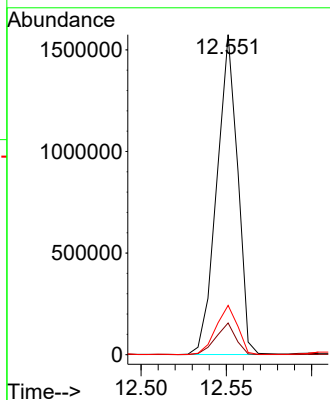
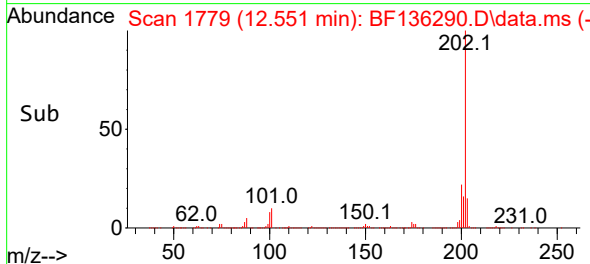
Instrument :
BNA_F
ClientSampleId :
358DL



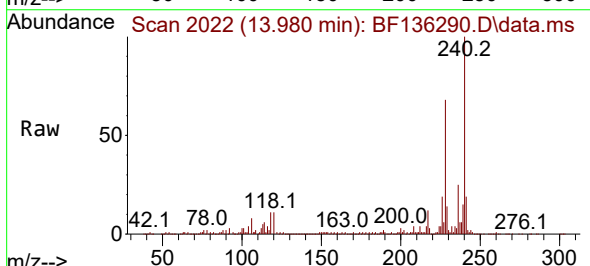
Tgt Ion:202 Resp: 1337830
Ion Ratio Lower Upper
202 100
101 9.9 0.0 27.8
203 15.4 0.0 34.5

Manual Integrations
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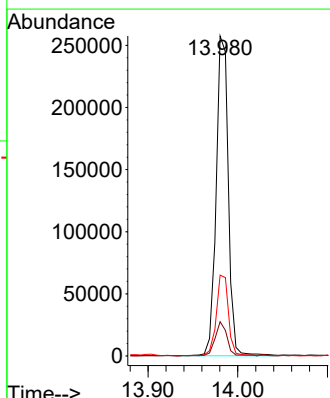
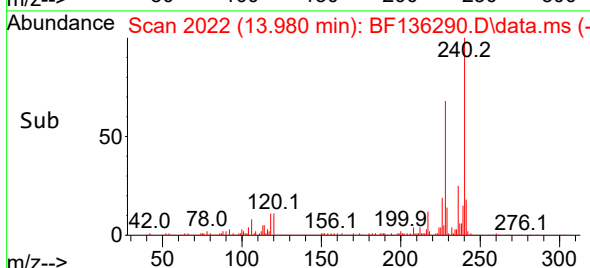
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

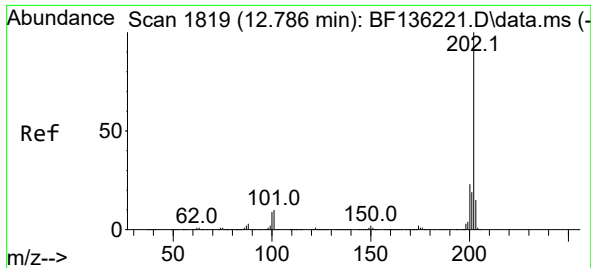


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



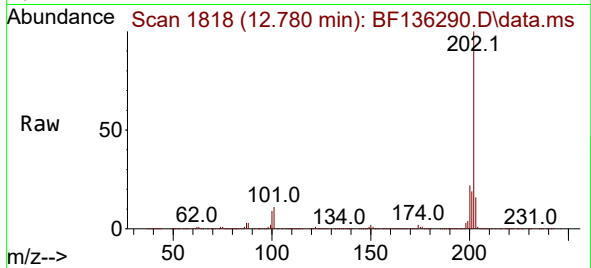
Tgt Ion:240 Resp: 241795
Ion Ratio Lower Upper
240 100
120 10.7 7.4 11.2
236 25.2 21.1 31.7





#78
Pyrene
Concen: 37.063 ng
RT: 12.780 min Scan# 1819
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

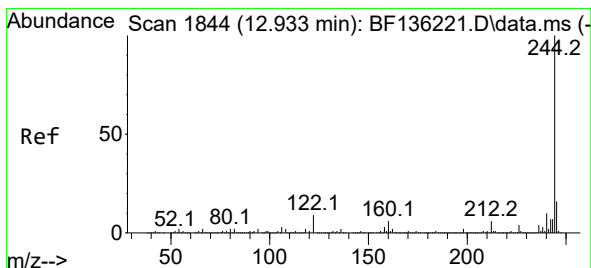
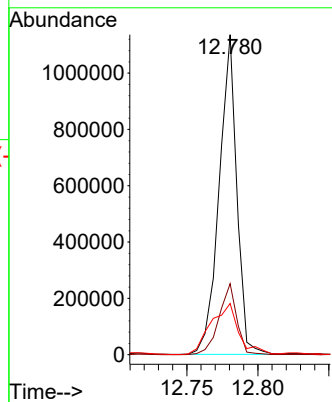
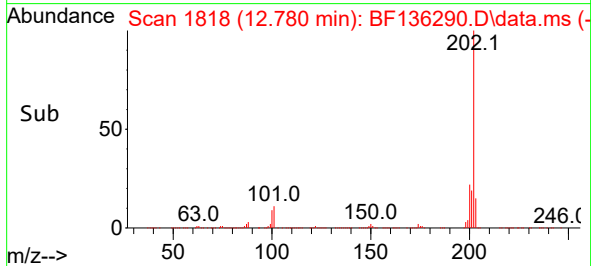
Instrument :
BNA_F
ClientSampleId :
358DL



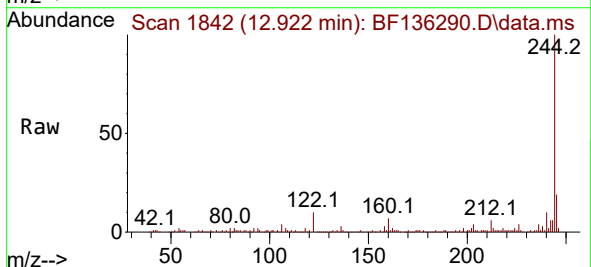
Tgt Ion:202 Resp: 981452
Ion Ratio Lower Upper
202 100
200 22.2 18.4 27.6
203 16.0 11.8 17.6

Manual Integrations
APPROVED

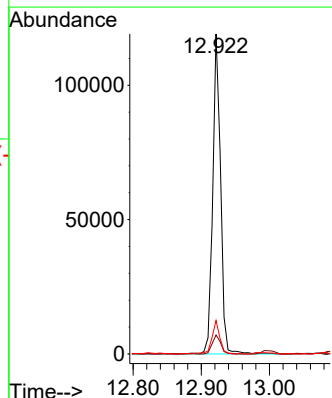
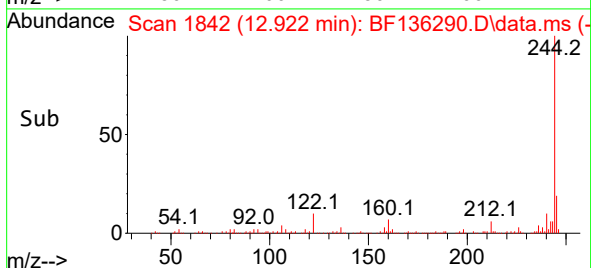
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

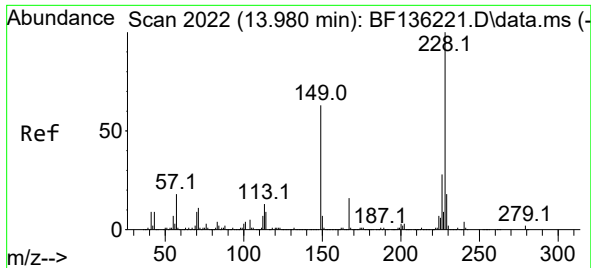


#79
Terphenyl-d14
Concen: 4.554 ng
RT: 12.922 min Scan# 1842
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



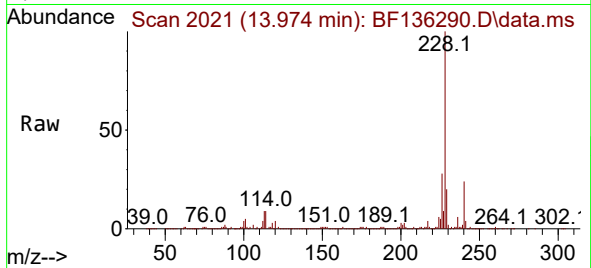
Tgt Ion:244 Resp: 95459
Ion Ratio Lower Upper
244 100
212 5.9 4.6 7.0
122 10.5 7.3 10.9





#81
Benzo(a)anthracene
Concen: 20.426 ng
RT: 13.974 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

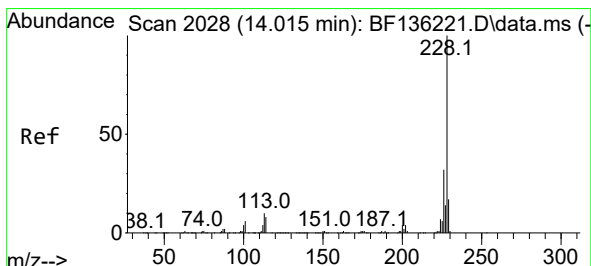
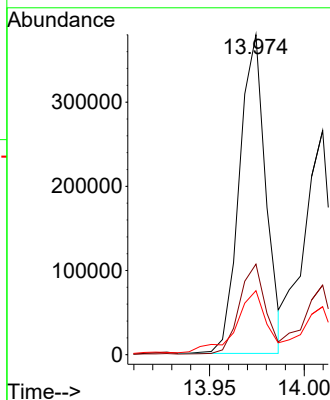
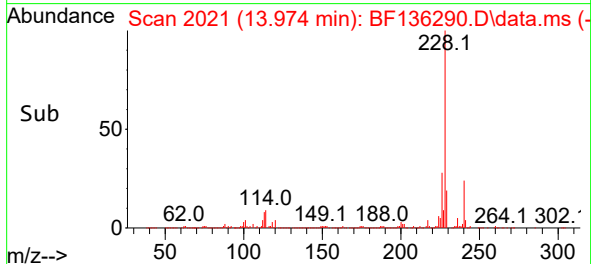
Instrument :
BNA_F
ClientSampleId :
358DL



Tgt Ion:228 Resp: 36684
Ion Ratio Lower Upper
228 100
226 28.3 22.6 34.0
229 20.0 14.0 21.0

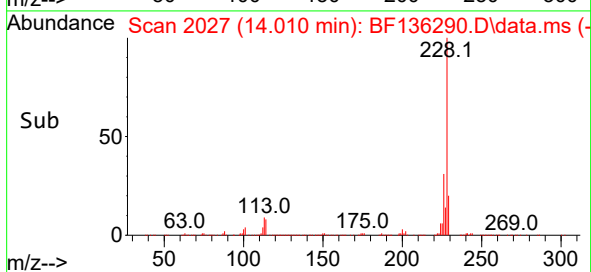
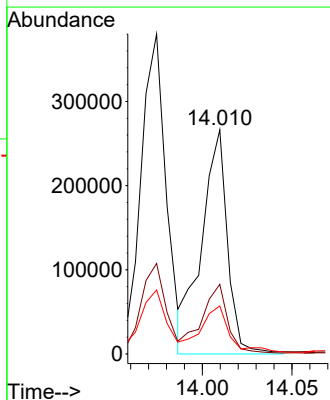
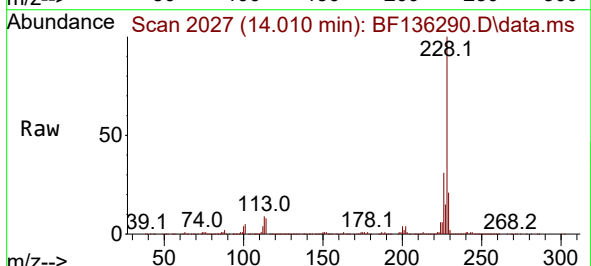
Manual Integrations
APPROVED

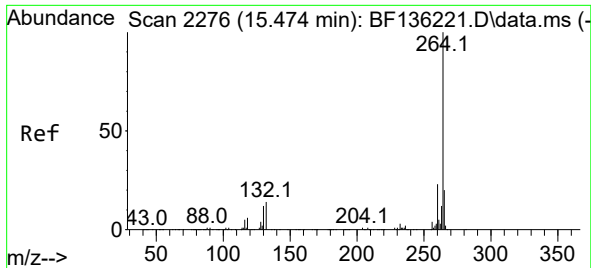
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#83
Chrysene
Concen: 15.509 ng m
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

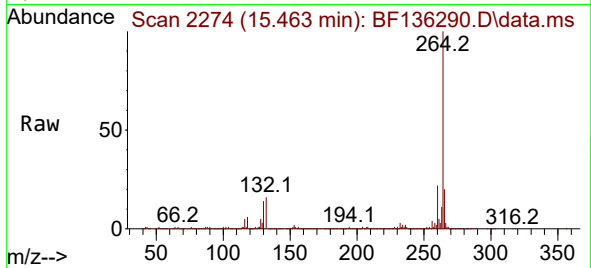
Tgt Ion:228 Resp: 268936
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 21.4 13.9 20.9#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 21
Delta R.T. -0.011 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

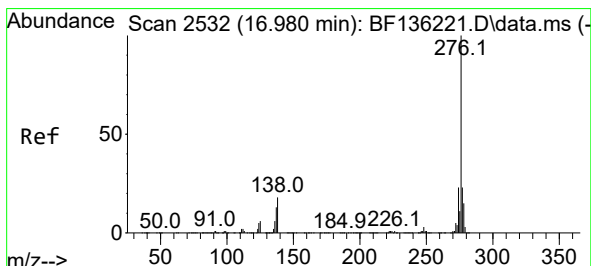
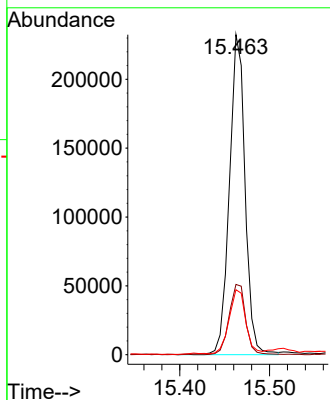
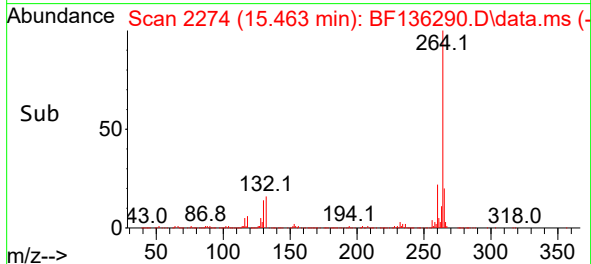
Instrument :
BNA_F
ClientSampleId :
358DL



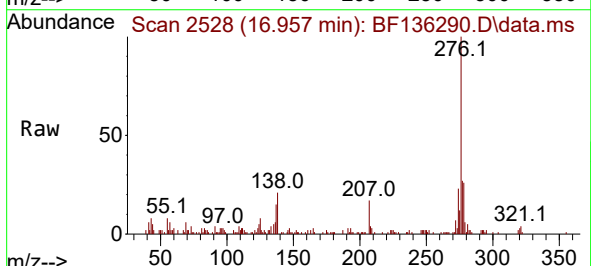
Tgt Ion:264 Resp: 28224
Ion Ratio Lower Upper
264 100
260 22.0 18.6 27.8
265 20.3 15.7 23.5

Manual Integrations
APPROVED

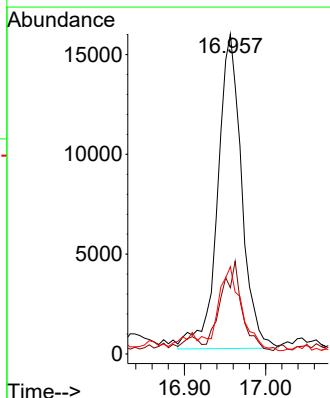
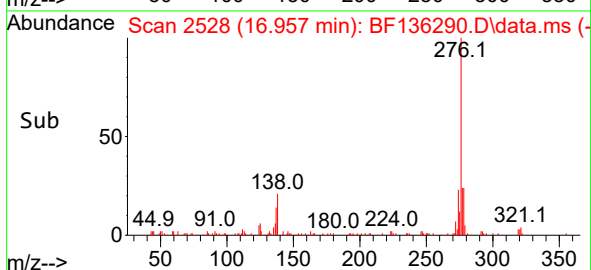
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

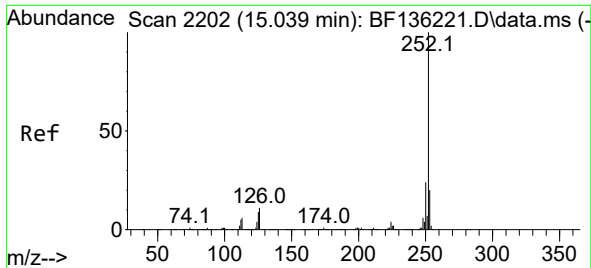


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.125 ng
RT: 16.957 min Scan# 2528
Delta R.T. -0.023 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43



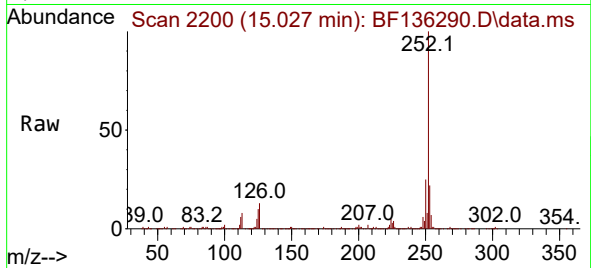
Tgt Ion:276 Resp: 32311
Ion Ratio Lower Upper
276 100
138 24.8 17.7 26.5
277 28.3 19.6 29.4





#88
Benzo(b)fluoranthene
Concen: 11.673 ng m
RT: 15.027 min Scan# 2114
Delta R.T. -0.012 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

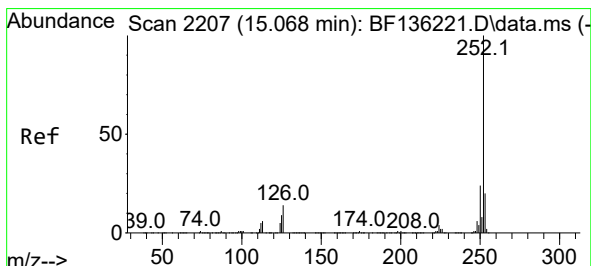
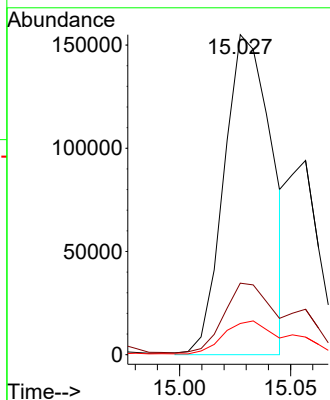
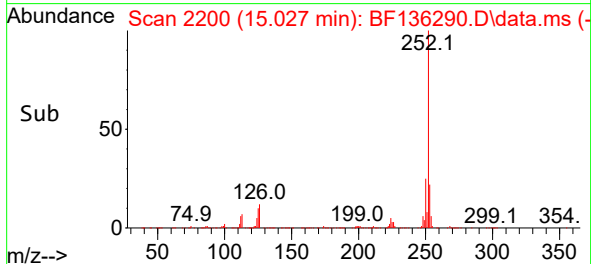
Instrument :
BNA_F
ClientSampleId :
358DL



Tgt Ion:252 Resp: 231140
Ion Ratio Lower Upper
252 100
253 22.4 16.2 24.2
125 9.8 6.9 10.3

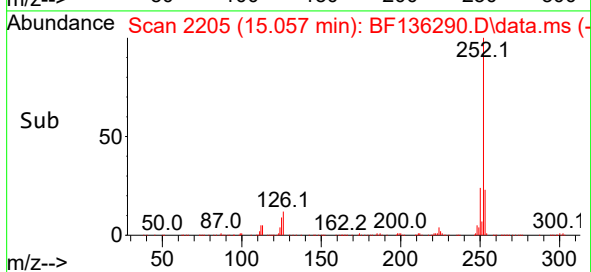
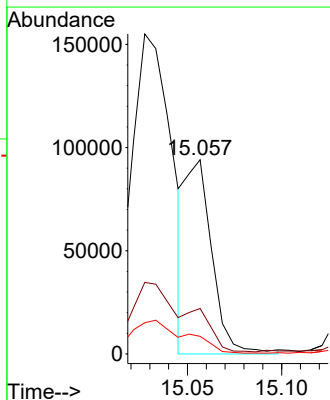
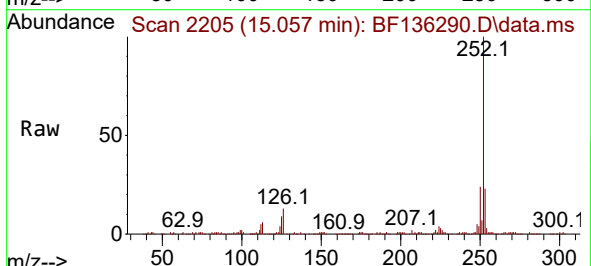
Manual Integrations
APPROVED

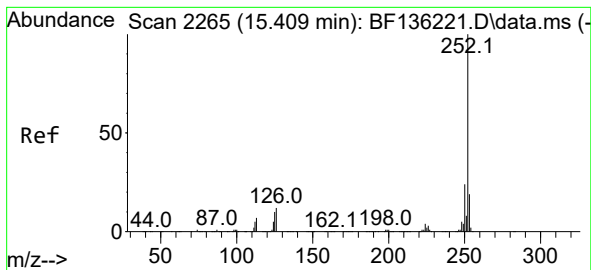
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#89
Benzo(k)fluoranthene
Concen: 4.899 ng m
RT: 15.057 min Scan# 2205
Delta R.T. -0.011 min
Lab File: BF136290.D
Acq: 29 Nov 2023 18:43

Tgt Ion:252 Resp: 92141
Ion Ratio Lower Upper
252 100
253 23.4 15.6 23.4
125 9.1 7.0 10.4





#90

Benzo(a)pyrene

Concen: 8.156 ng

RT: 15.398 min Scan# 21

Delta R.T. -0.011 min

Lab File: BF136290.D

Acq: 29 Nov 2023 18:43

Instrument :

BNA_F

ClientSampleId :

358DL

Tgt Ion:252 Resp: 132028

Ion Ratio Lower Upper

252 100

253 22.2 15.5 23.3

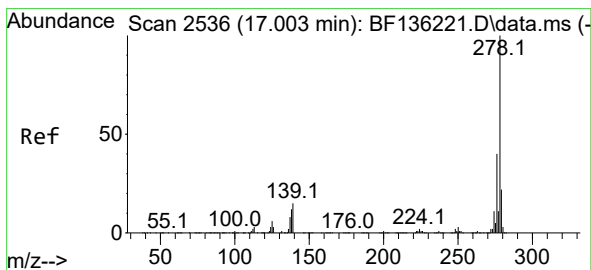
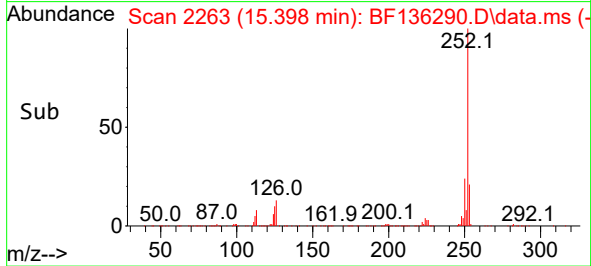
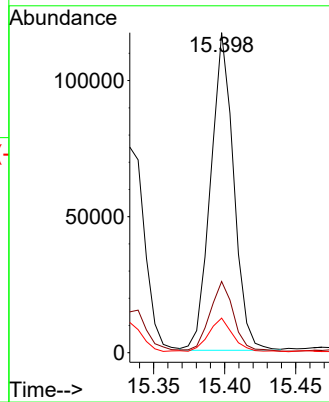
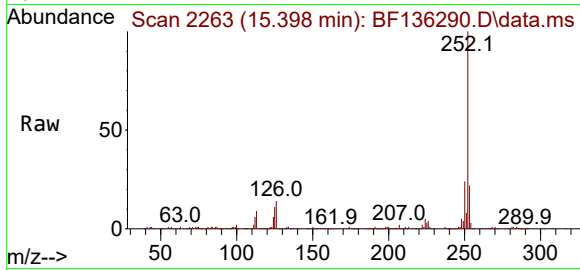
125 10.8 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.392 ng

RT: 16.974 min Scan# 2531

Delta R.T. -0.029 min

Lab File: BF136290.D

Acq: 29 Nov 2023 18:43

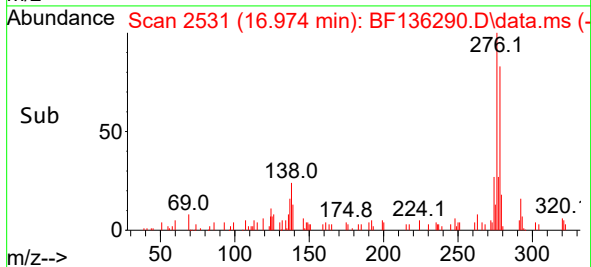
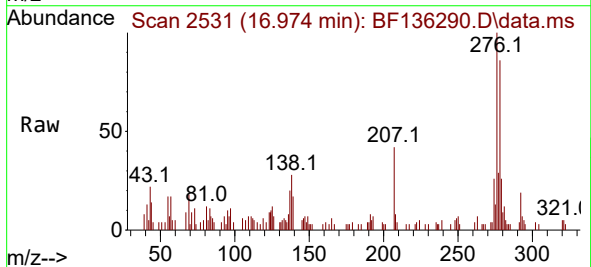
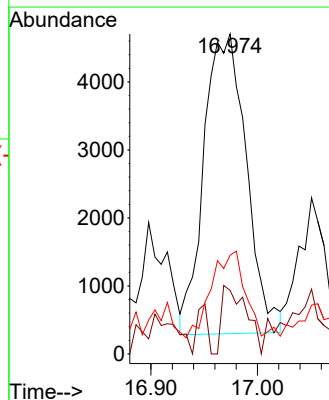
Tgt Ion:278 Resp: 12179

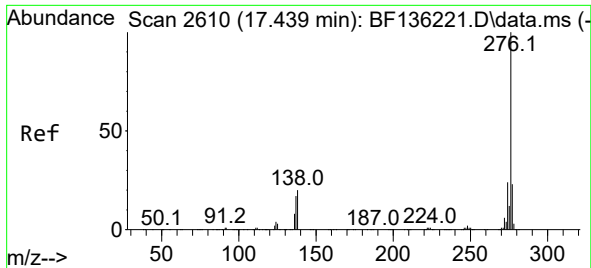
Ion Ratio Lower Upper

278 100

139 19.9 11.7 17.5#

279 30.8 17.8 26.8#





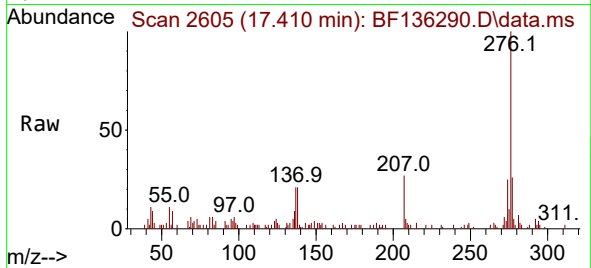
#92
 Benzo(g,h,i)perylene
 Concen: 3.274 ng
 RT: 17.410 min Scan# 20
 Delta R.T. -0.029 min
 Lab File: BF136290.D
 Acq: 29 Nov 2023 18:43

Instrument :

BNA_F

ClientSampleId :

358DL



Tgt Ion:276 Resp: 2429
 Ion Ratio Lower Upper
 276 100
 277 25.6 18.6 27.8
 138 21.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023

