

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136292.D
 Acq On : 29 Nov 2023 19:46
 Operator : CG\JU
 Sample : 05492-01DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-13DL

Manual Integrations
 APPROVED

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

Quant Time: Nov 29 23:48:52 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	25998	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	97709	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	43341	20.000	ng	-0.01
64) Phenanthrene-d10	11.328	188	62900	20.000	ng	0.00
76) Chrysene-d12	13.980	240	55691	20.000	ng	-0.01
86) Perylene-d12	15.463	264	58768	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	170979	91.537	ng	-0.01
7) Phenol-d6	6.428	99	207692	88.927	ng	-0.02
23) Nitrobenzene-d5	7.357	82	120358	65.092	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	37889	71.505	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	238832	70.386	ng	-0.01
79) Terphenyl-d14	12.922	244	186640	38.657	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	12275	2.235	ng	96
49) Acenaphthylene	9.698	152	16447	3.883	ng	# 97
52) Acenaphthene	9.869	154	20424	7.630	ng	93
55) Dibenzofuran	10.039	168	13531	3.397	ng	# 92
58) Fluorene	10.386	166	24437	7.822	ng	88
71) Phenanthrene	11.351	178	300399	84.972	ng	98
72) Anthracene	11.404	178	71676	20.218	ng	97
73) Carbazole	11.557	167	27068	8.977	ng	97
75) Fluoranthene	12.545	202	458647	127.796	ng	95
78) Pyrene	12.774	202	367516	60.257	ng	96
81) Benzo(a)anthracene	13.969	228	236013	57.056	ng	98
83) Chrysene	14.004	228	190012m	47.574	ng	
87) Indeno(1,2,3-cd)pyrene	16.957	276	71882	18.129	ng	97
88) Benzo(b)fluoranthene	15.027	252	244472m	59.294	ng	
89) Benzo(k)fluoranthene	15.057	252	93755m	23.942	ng	
90) Benzo(a)pyrene	15.398	252	165761	49.180	ng	96
91) Dibenzo(a,h)anthracene	16.974	278	19135m	7.834	ng	
92) Benzo(g,h,i)perylene	17.409	276	60460	18.314	ng	97

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

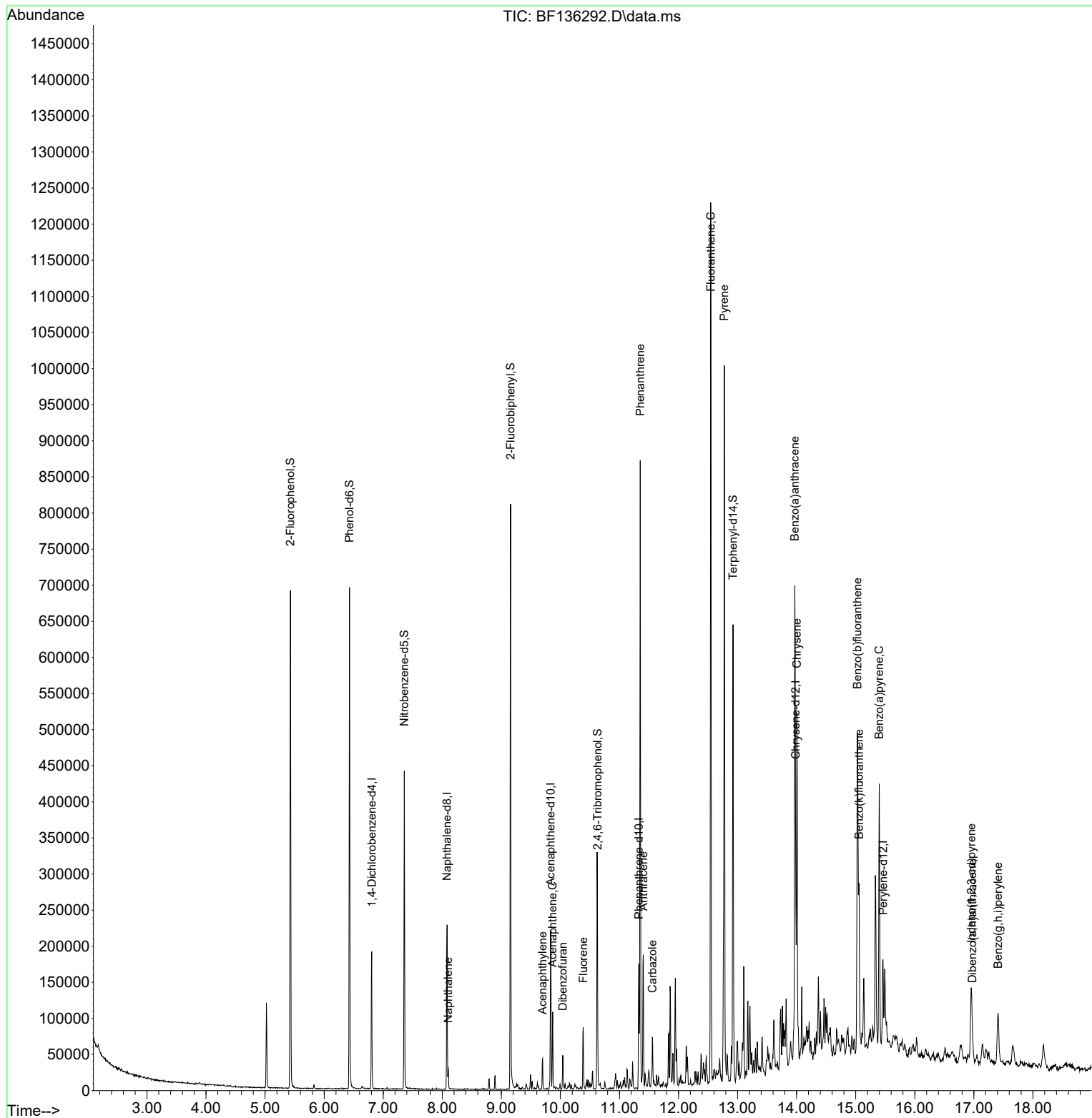
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
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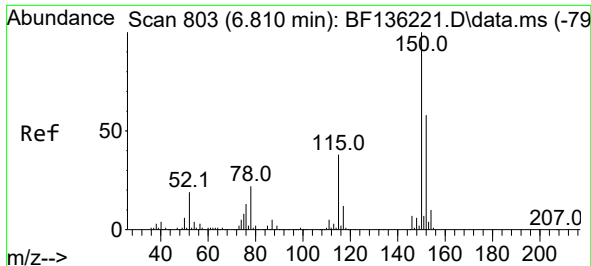
Instrument :
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

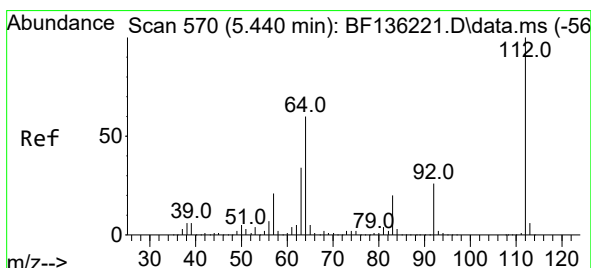
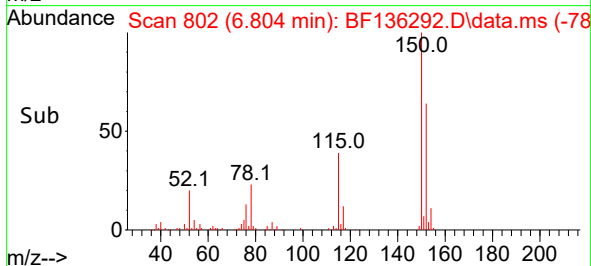
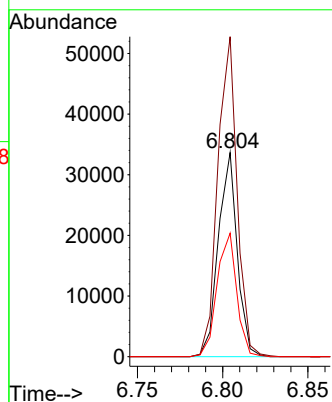
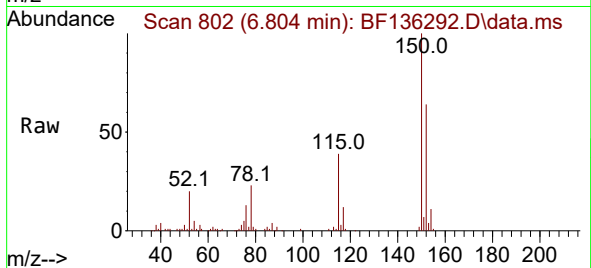
TP-13DL

Tgt Ion:152 Resp: 2598
Ion Ratio Lower Upper
152 100
150 156.7 137.8 206.8
115 60.5 52.7 79.1

Manual Integrations

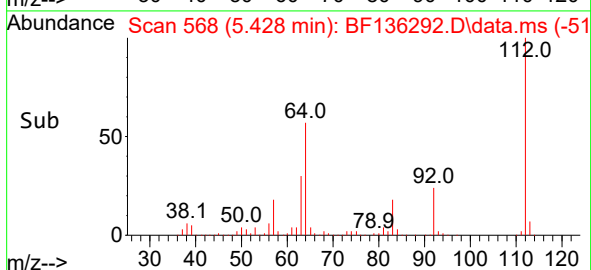
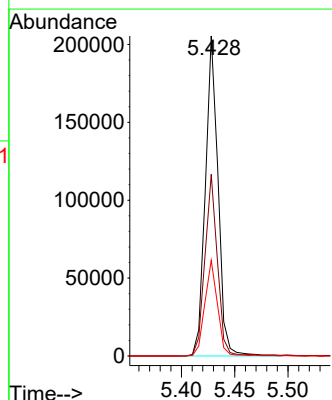
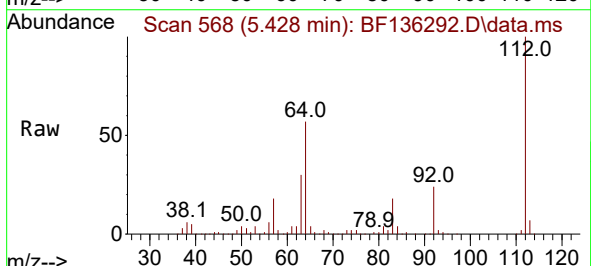
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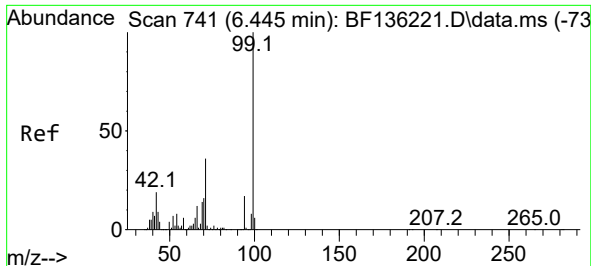
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 91.537 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

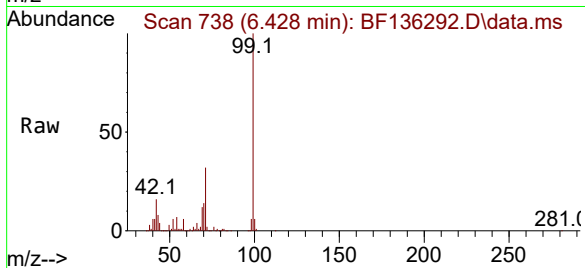
Tgt Ion:112 Resp: 170979
Ion Ratio Lower Upper
112 100
64 56.8 48.2 72.4
63 29.9 27.0 40.6





#7
Phenol-d6
Concen: 88.927 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

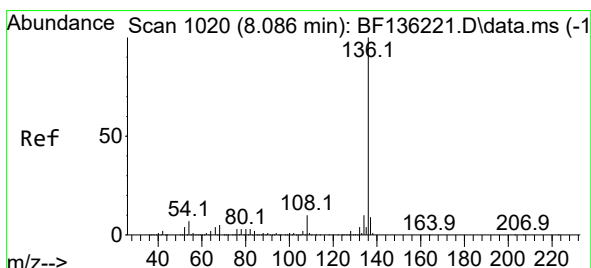
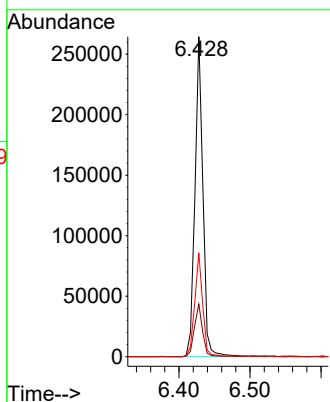
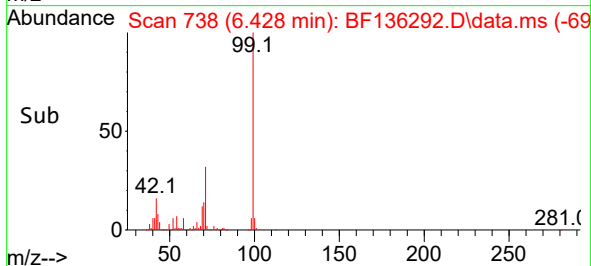
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 207692
Ion Ratio Lower Upper
99 100
42 16.5 15.0 22.6
71 32.4 28.9 43.3

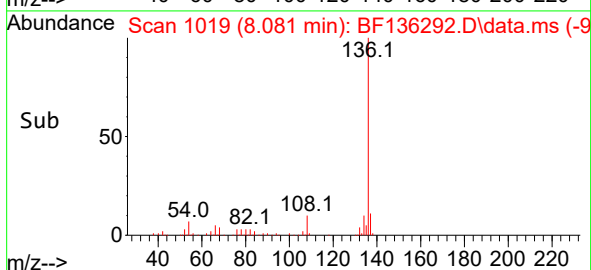
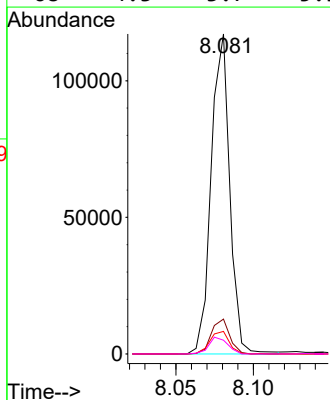
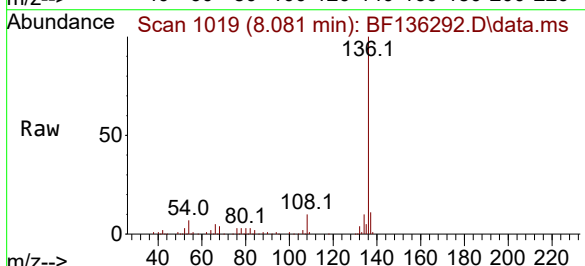
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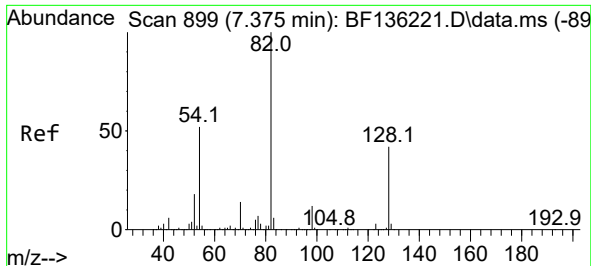
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Tgt Ion:136 Resp: 97709
Ion Ratio Lower Upper
136 100
137 10.9 7.4 11.2
54 7.0 5.5 8.3
68 4.3 3.7 5.5





#23

Nitrobenzene-d5

Concen: 65.092 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

TP-13DL

Tgt Ion: 82 Resp: 120358

Ion Ratio Lower Upper

82 100

128 44.0 33.4 50.2

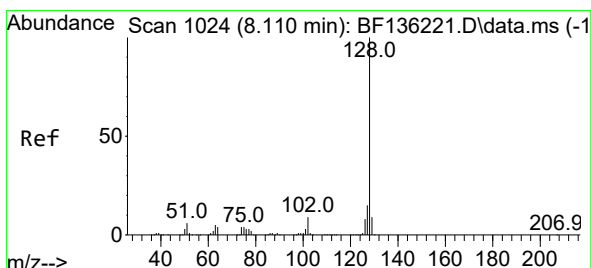
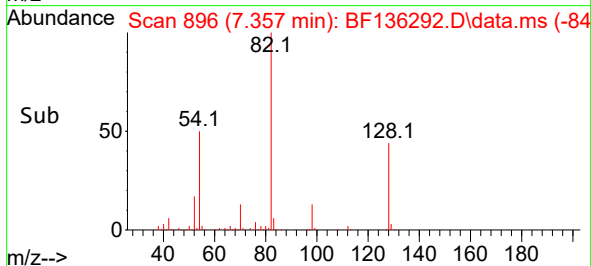
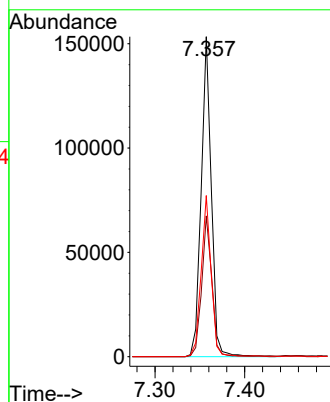
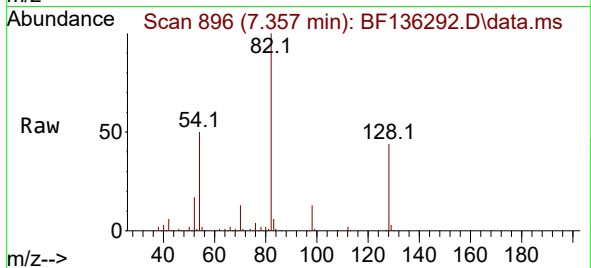
54 50.3 41.7 62.5

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Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 2.235 ng

RT: 8.098 min Scan# 1022

Delta R.T. -0.012 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

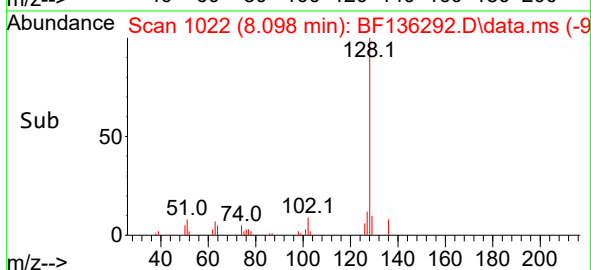
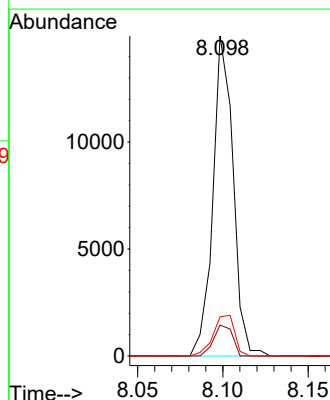
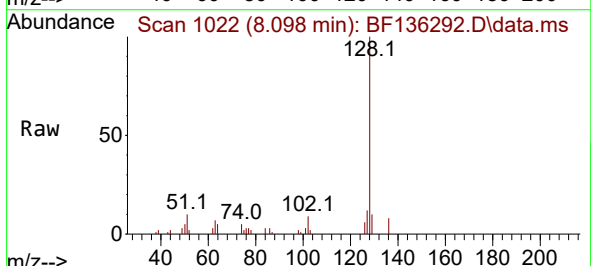
Tgt Ion:128 Resp: 12275

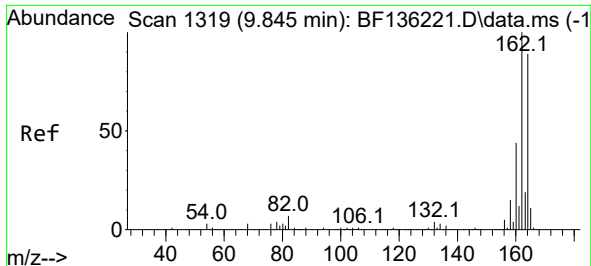
Ion Ratio Lower Upper

128 100

129 9.7 7.3 10.9

127 12.2 11.8 17.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 11

Delta R.T. -0.011 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

TP-13DL

Tgt Ion:164 Resp: 4334

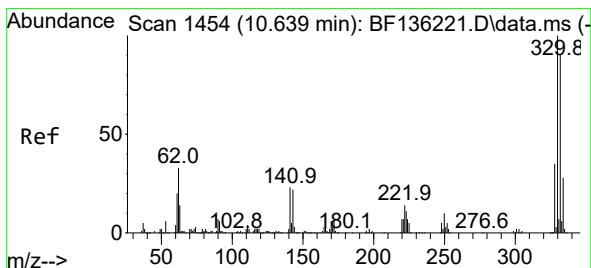
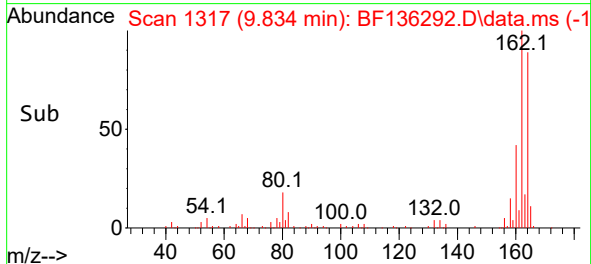
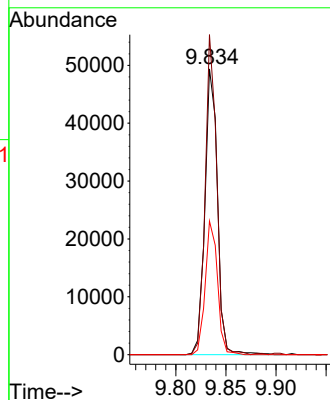
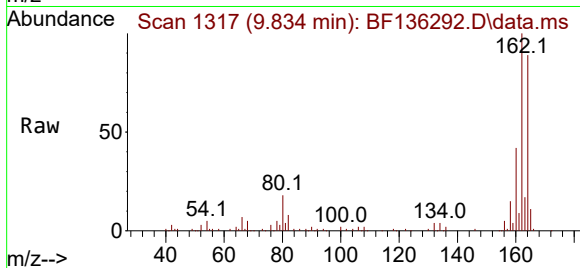
Ion	Ratio	Lower	Upper
164	100		
162	112.0	89.5	134.3
160	46.8	39.6	59.4

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 71.505 ng

RT: 10.628 min Scan# 1452

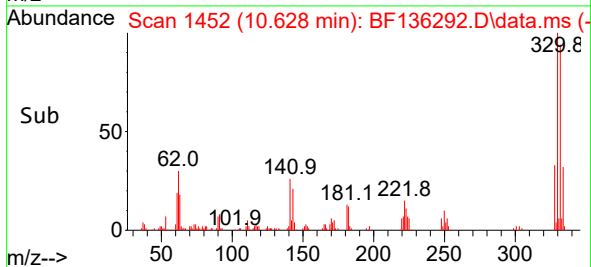
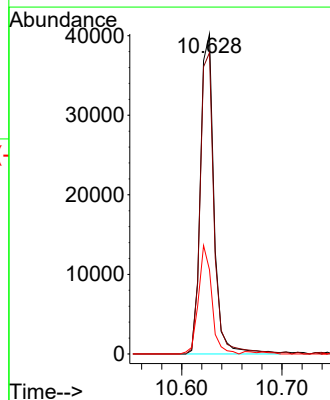
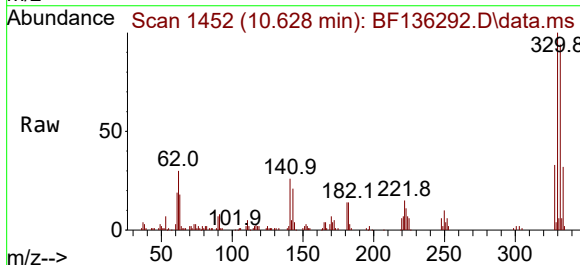
Delta R.T. -0.012 min

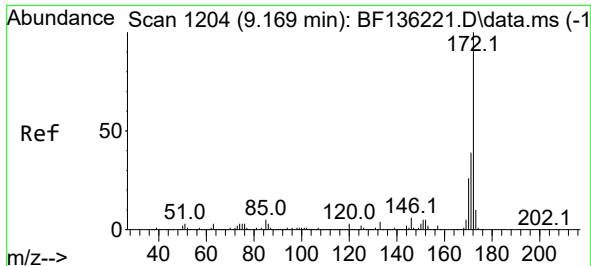
Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Tgt Ion:330 Resp: 37889

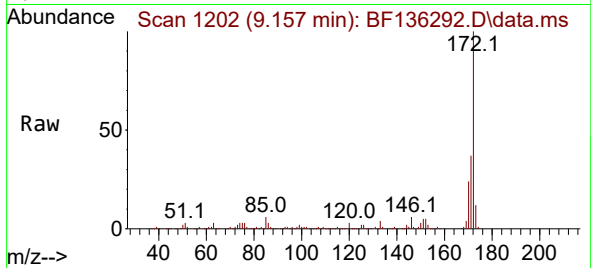
Ion	Ratio	Lower	Upper
330	100		
332	96.9	73.0	109.6
141	32.9	24.2	36.2





#45
2-Fluorobiphenyl
Concen: 70.386 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

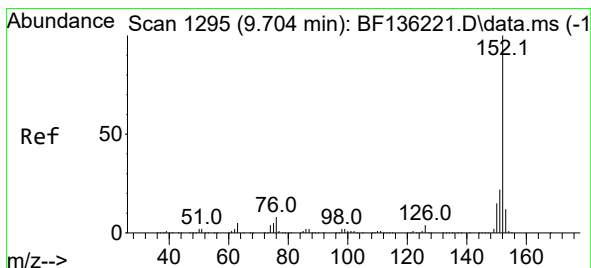
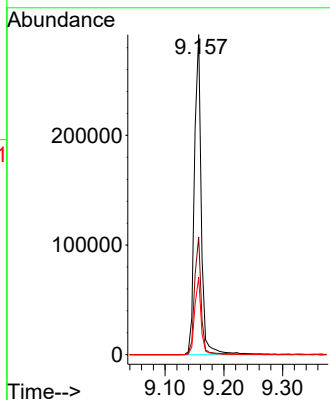
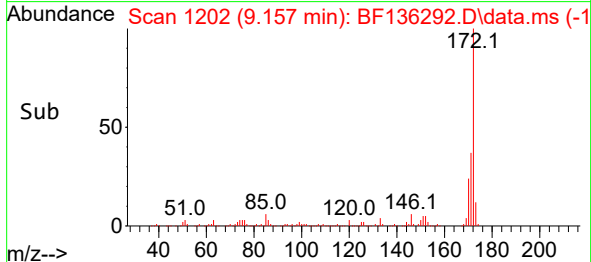
Instrument :
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TP-13DL



Tgt Ion:172 Resp: 23883
Ion Ratio Lower Upper
172 100
171 36.8 31.5 47.3
170 24.1 20.8 31.2

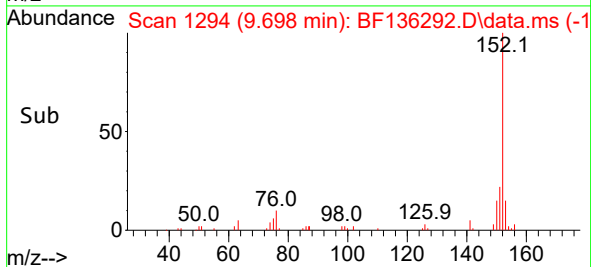
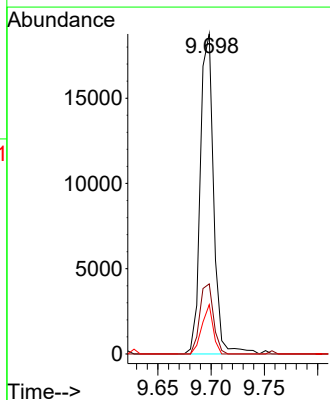
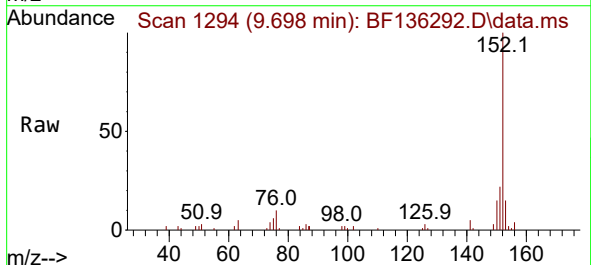
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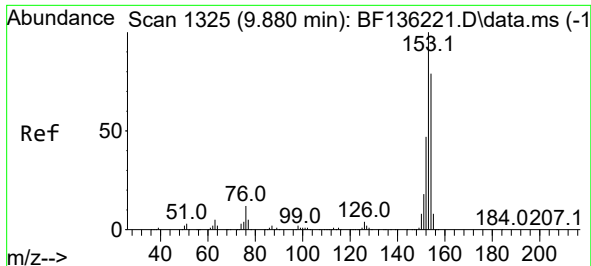
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#49
Acenaphthylene
Concen: 3.883 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

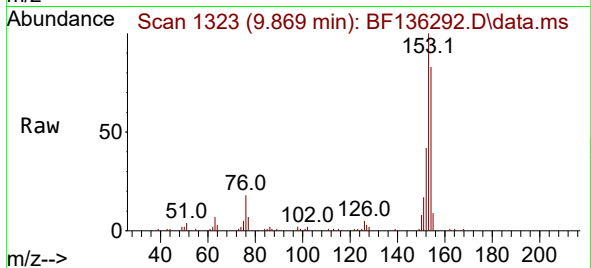
Tgt Ion:152 Resp: 16447
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3
153 15.4 9.6 14.4





#52
Acenaphthene
Concen: 7.630 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

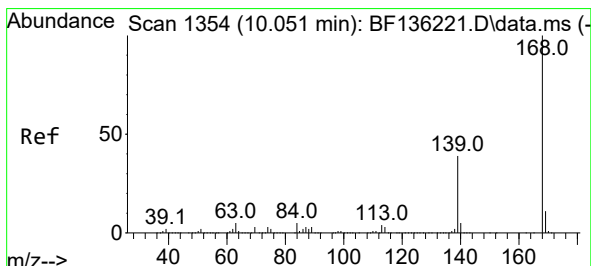
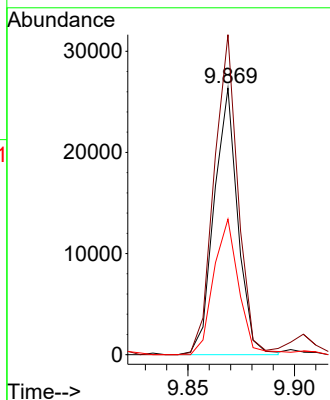
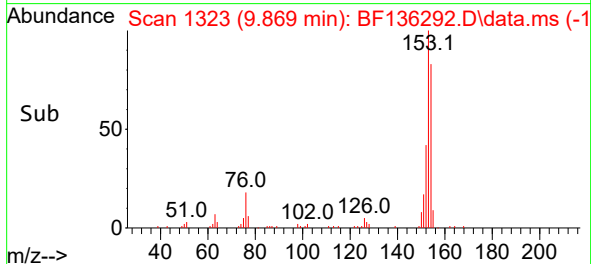
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TP-13DL



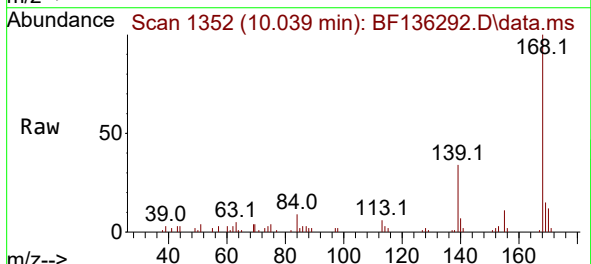
Tgt Ion:154 Resp: 20424
Ion Ratio Lower Upper
154 100
153 120.1 100.8 151.2
152 50.8 47.0 70.6

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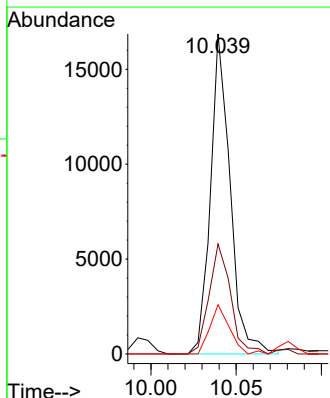
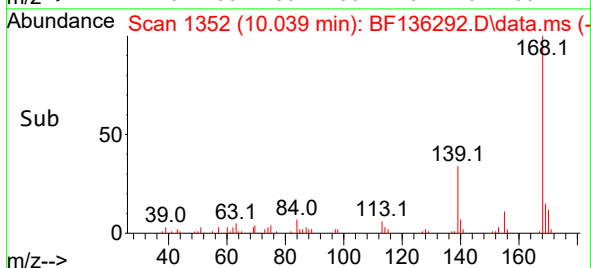
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

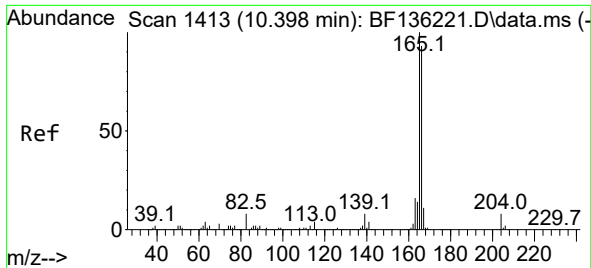


#55
Dibenzofuran
Concen: 3.397 ng
RT: 10.039 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46



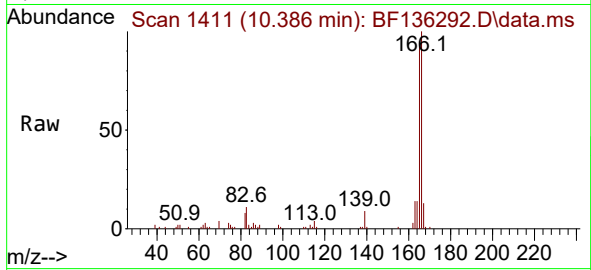
Tgt Ion:168 Resp: 13531
Ion Ratio Lower Upper
168 100
139 34.3 30.9 46.3
169 15.4 9.1 13.7#





#58
Fluorene
Concen: 7.822 ng
RT: 10.386 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

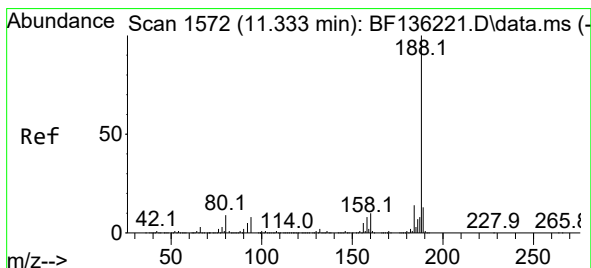
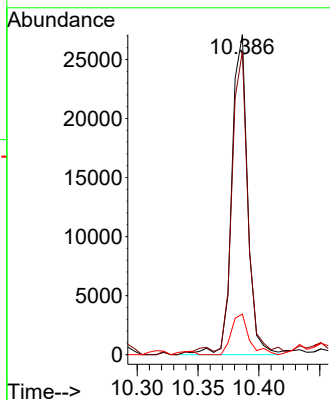
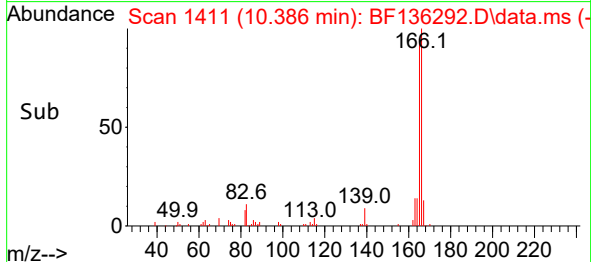
Instrument :
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ClientSampleId :
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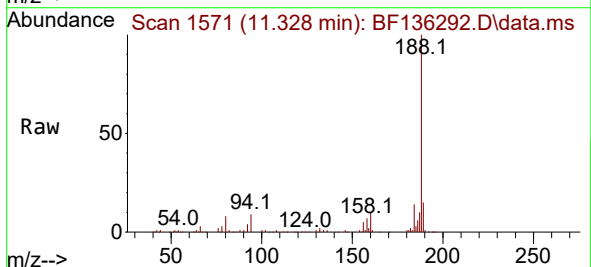
Tgt Ion:166 Resp: 2443
Ion Ratio Lower Upper
166 100
165 94.7 86.2 129.4
167 12.7 9.1 13.7

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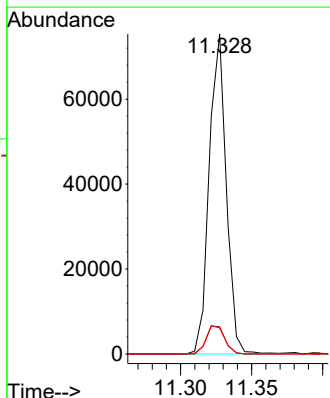
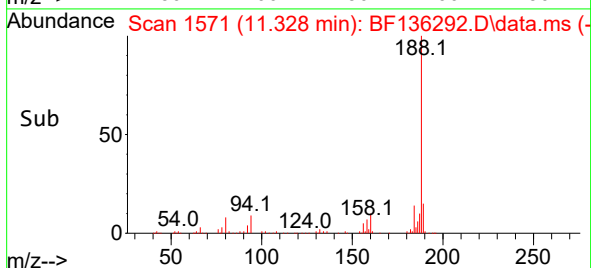
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

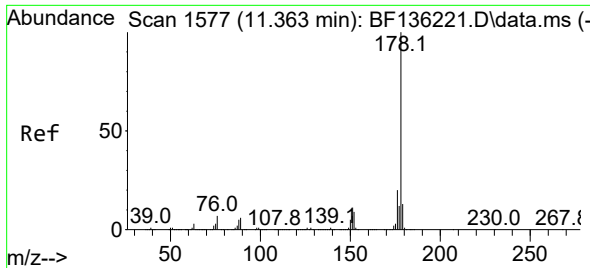


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.005 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46



Tgt Ion:188 Resp: 62900
Ion Ratio Lower Upper
188 100
94 8.5 6.7 10.1
80 8.1 7.2 10.8





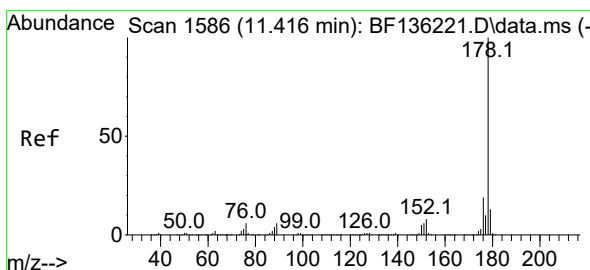
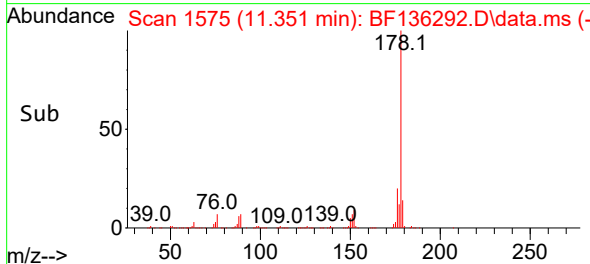
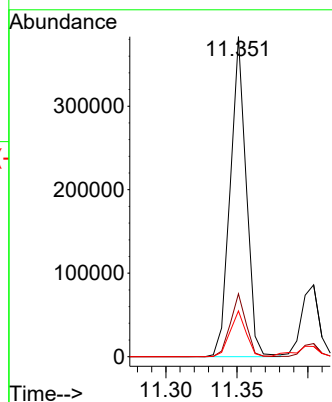
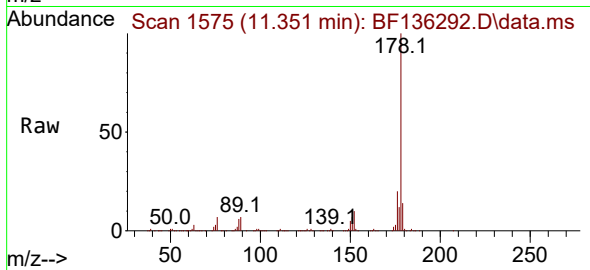
#71
Phenanthrene
Concen: 84.972 ng
RT: 11.351 min Scan# 11351
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Instrument :
BNA_F
ClientSampleId :
TP-13DL

Tgt Ion:178 Resp: 300399
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.2
179 14.3 10.3 15.5

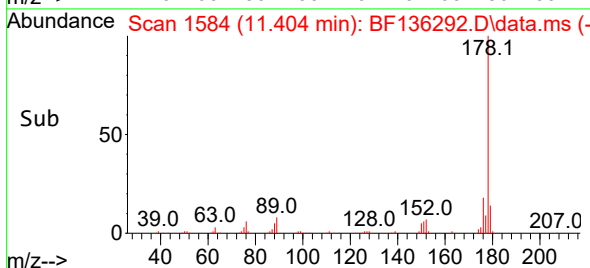
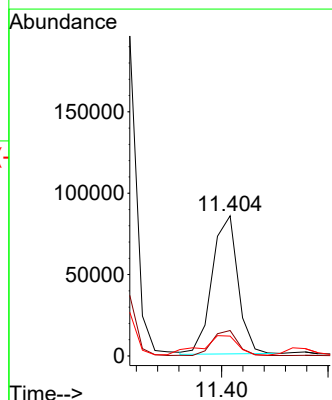
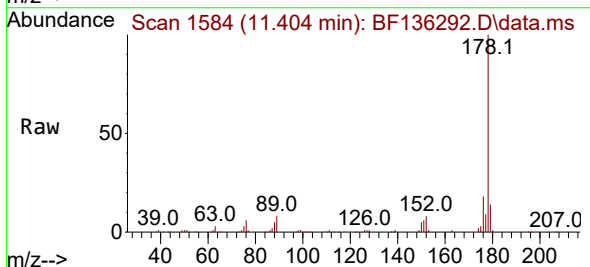
Manual Integrations
APPROVED

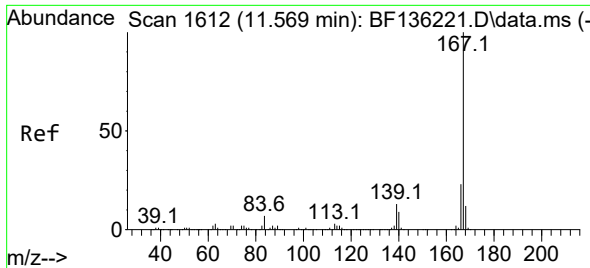
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#72
Anthracene
Concen: 20.218 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

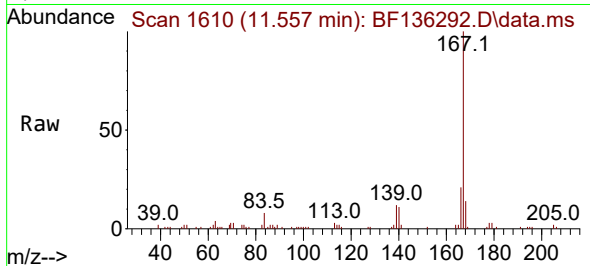
Tgt Ion:178 Resp: 71676
Ion Ratio Lower Upper
178 100
176 18.2 15.5 23.3
179 14.2 10.5 15.7





#73
 Carbazole
 Concen: 8.977 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.012 min
 Lab File: BF136292.D
 Acq: 29 Nov 2023 19:46

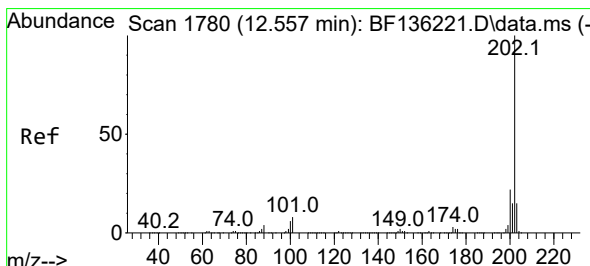
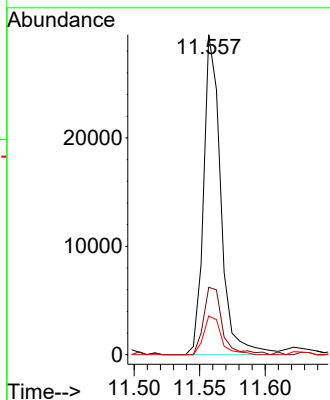
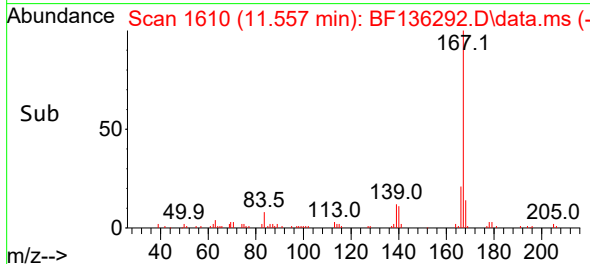
Instrument :
 BNA_F
 ClientSampleId :
 TP-13DL



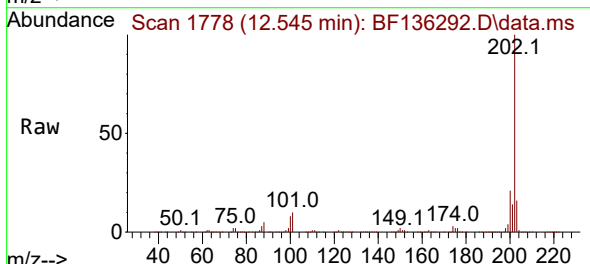
Tgt Ion:167 Resp: 27068
 Ion Ratio Lower Upper
 167 100
 166 21.0 18.4 27.6
 139 12.1 10.5 15.7

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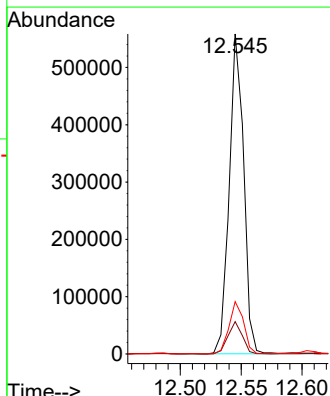
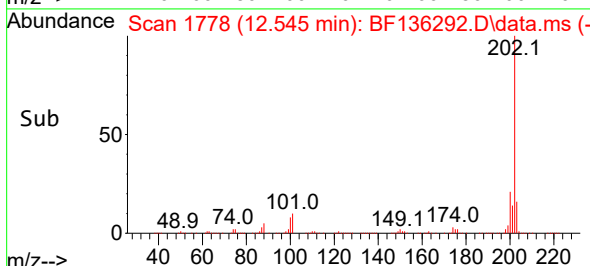
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

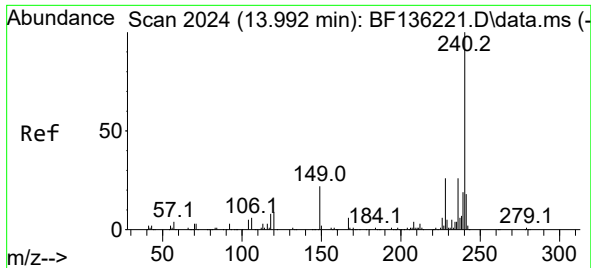


#75
 Fluoranthene
 Concen: 127.796 ng
 RT: 12.545 min Scan# 1778
 Delta R.T. -0.012 min
 Lab File: BF136292.D
 Acq: 29 Nov 2023 19:46



Tgt Ion:202 Resp: 458647
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 27.8
 203 16.4 0.0 34.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

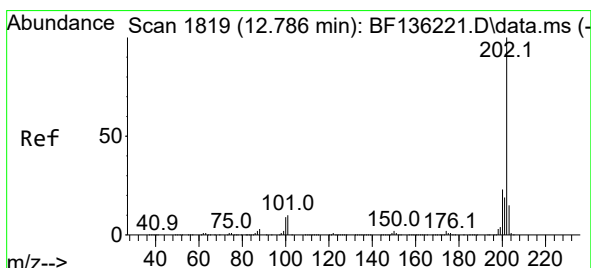
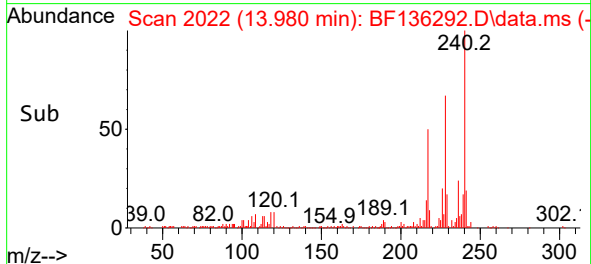
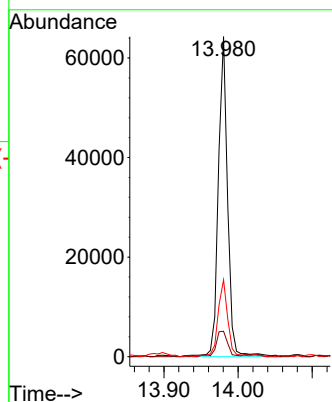
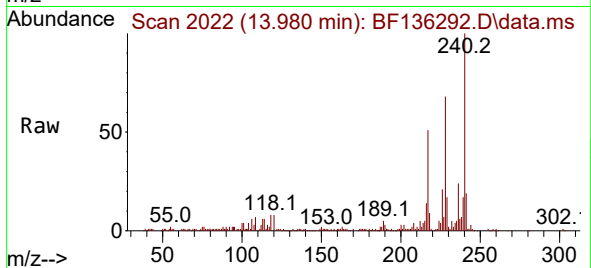
TP-13DL

Tgt Ion:240 Resp: 5569
Ion Ratio Lower Upper
240 100
120 8.0 7.4 11.2
236 24.0 21.1 31.7

Manual Integrations

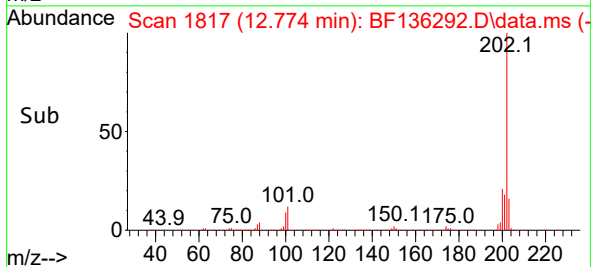
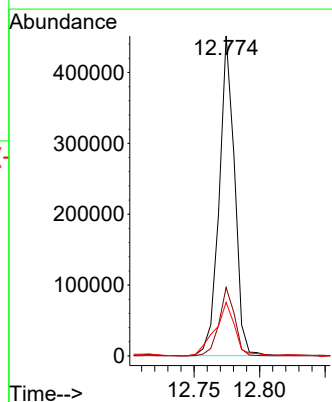
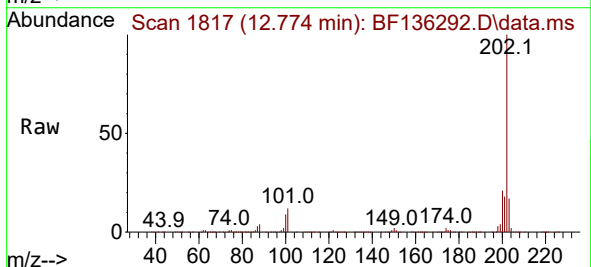
APPROVED

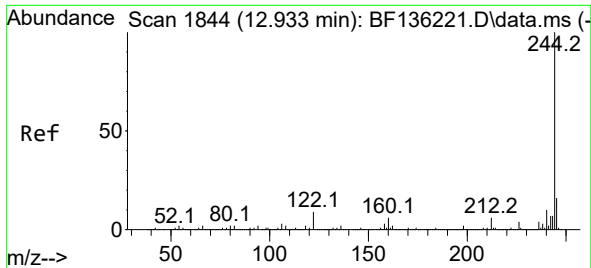
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#78
Pyrene
Concen: 60.257 ng
RT: 12.774 min Scan# 1817
Delta R.T. -0.012 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Tgt Ion:202 Resp: 367516
Ion Ratio Lower Upper
202 100
200 21.4 18.4 27.6
203 16.8 11.8 17.6





#79
 Terphenyl-d14
 Concen: 38.657 ng
 RT: 12.922 min Scan# 1844
 Delta R.T. -0.012 min
 Lab File: BF136292.D
 Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

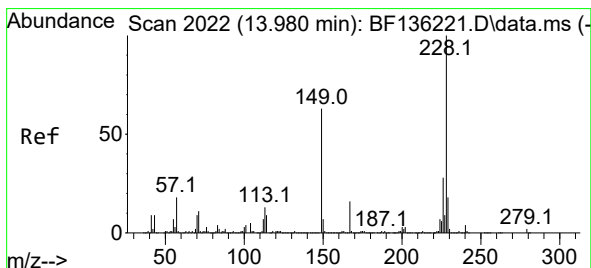
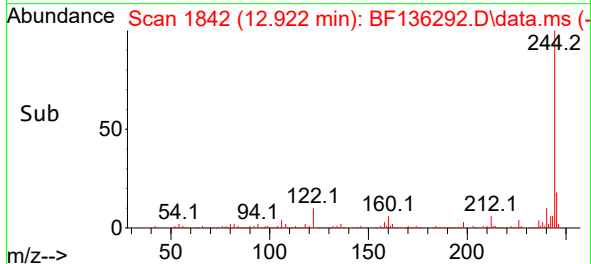
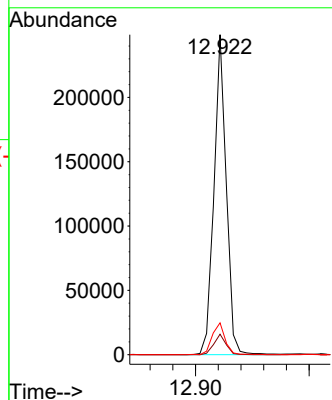
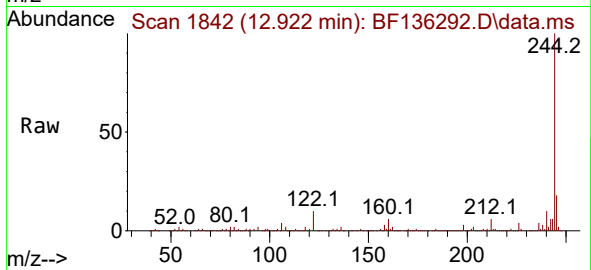
TP-13DL

Tgt Ion:244 Resp: 186640
 Ion Ratio Lower Upper
 244 100
 212 6.4 4.6 7.0
 122 9.9 7.3 10.9

Manual Integrations

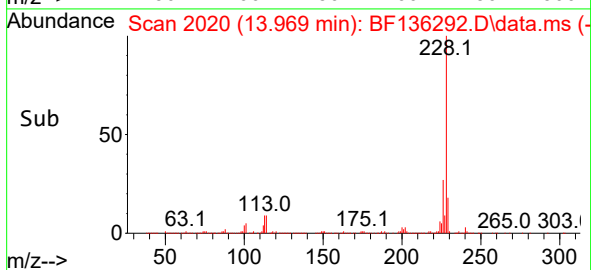
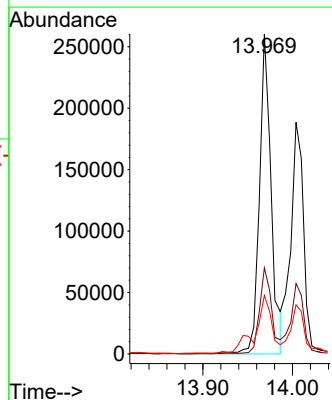
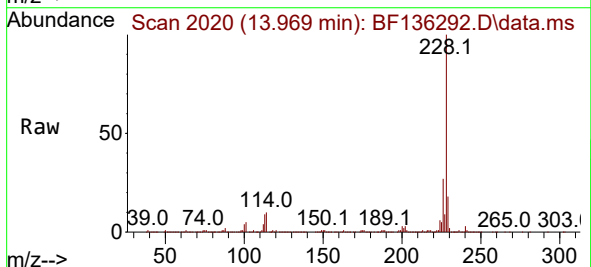
APPROVED

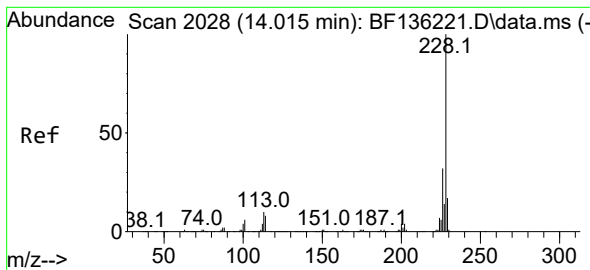
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#81
 Benzo(a)anthracene
 Concen: 57.056 ng
 RT: 13.969 min Scan# 2020
 Delta R.T. -0.012 min
 Lab File: BF136292.D
 Acq: 29 Nov 2023 19:46

Tgt Ion:228 Resp: 236013
 Ion Ratio Lower Upper
 228 100
 226 26.9 22.6 34.0
 229 18.2 14.0 21.0





#83

Chrysene

Concen: 47.574 ng m

RT: 14.004 min Scan# 2028

Delta R.T. -0.012 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

TP-13DL

Tgt Ion:228 Resp: 190012

Ion Ratio Lower Upper

228 100

226 30.4 25.5 38.3

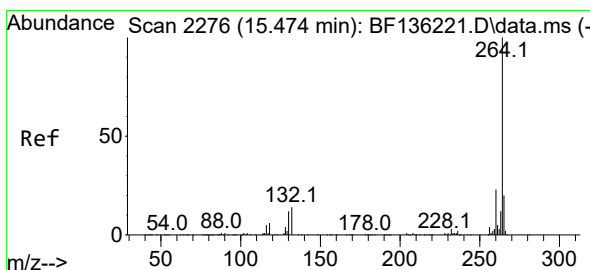
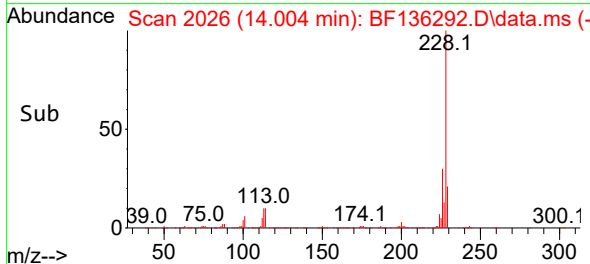
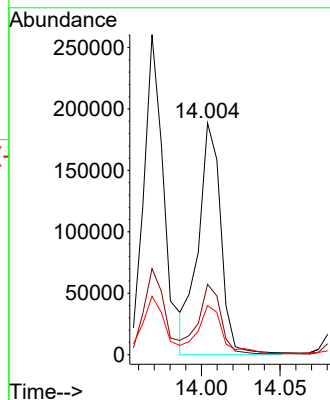
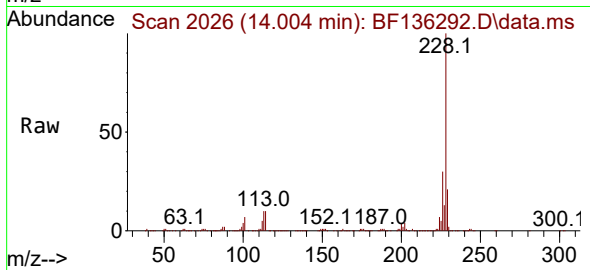
229 21.2 13.9 20.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.463 min Scan# 2274

Delta R.T. -0.011 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

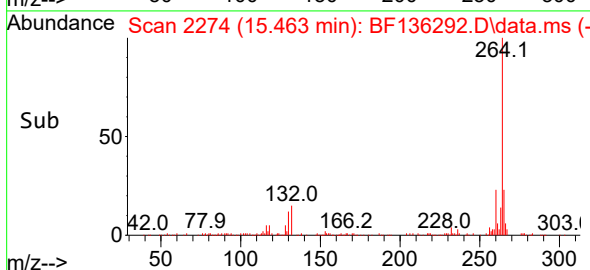
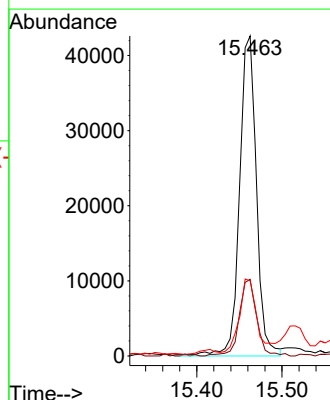
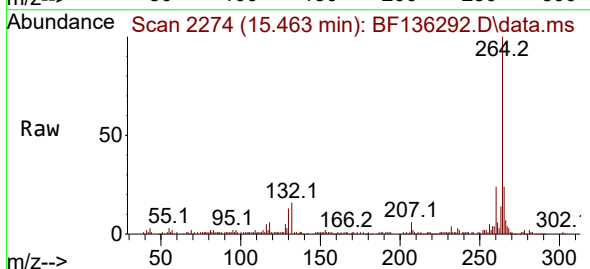
Tgt Ion:264 Resp: 58768

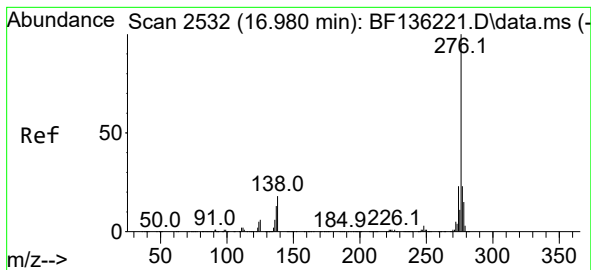
Ion Ratio Lower Upper

264 100

260 24.0 18.6 27.8

265 23.5 15.7 23.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 18.129 ng

RT: 16.957 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

TP-13DL

Tgt Ion: 276 Resp: 7188

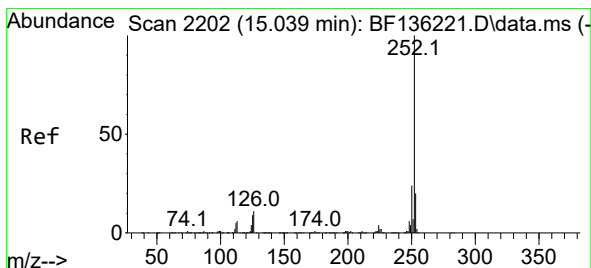
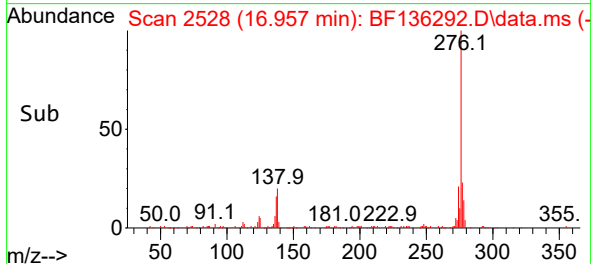
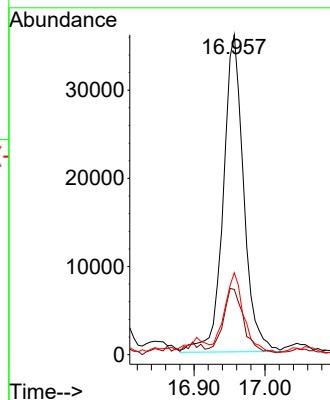
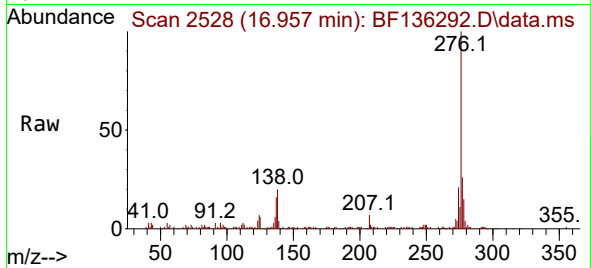
Ion	Ratio	Lower	Upper
276	100		
138	19.9	17.7	26.5
277	23.5	19.6	29.4

Manual Integrations

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Reviewed By : Yogesh Patel 11/30/2023

Supervised By : mohammad ahmed 12/01/2023



#88

Benzo(b)fluoranthene

Concen: 59.294 ng m

RT: 15.027 min Scan# 2200

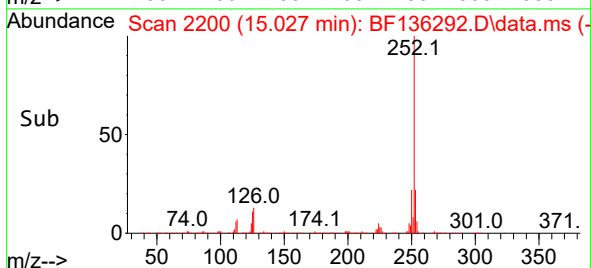
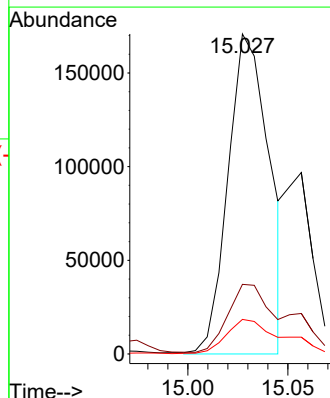
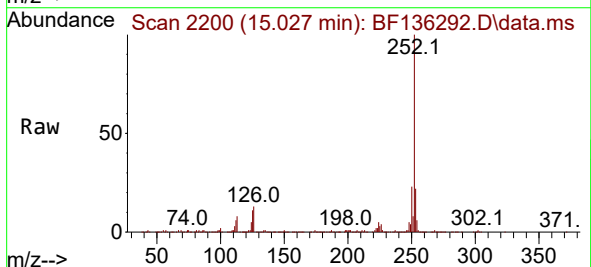
Delta R.T. -0.012 min

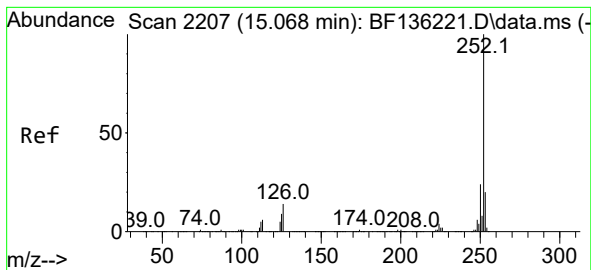
Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Tgt Ion: 252 Resp: 244472

Ion	Ratio	Lower	Upper
252	100		
253	21.7	16.2	24.2
125	10.8	6.9	10.3





#89

Benzo(k)fluoranthene

Concen: 23.942 ng m

RT: 15.057 min Scan# 21

Delta R.T. -0.011 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

Instrument :

BNA_F

ClientSampleId :

TP-13DL

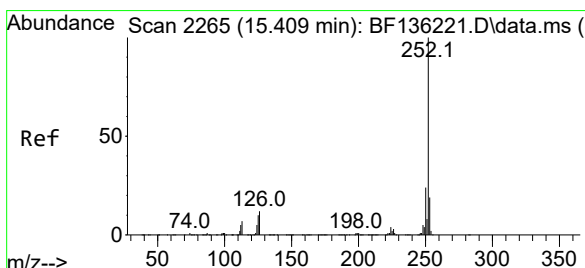
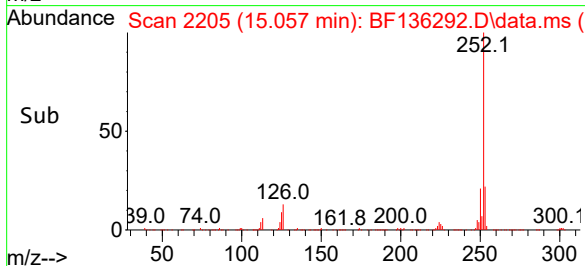
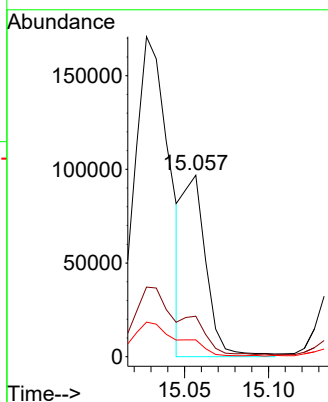
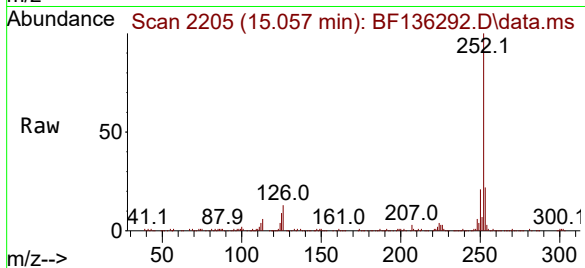
Tgt Ion:252 Resp: 93758
 Ion Ratio Lower Upper
 252 100
 253 22.3 15.6 23.4
 125 9.3 7.0 10.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#90

Benzo(a)pyrene

Concen: 49.180 ng

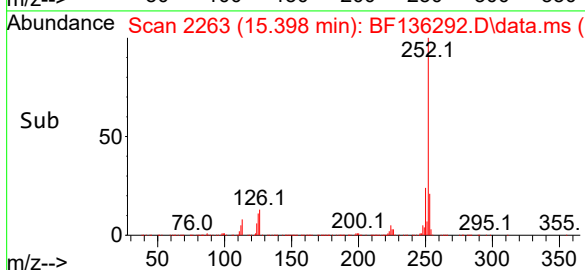
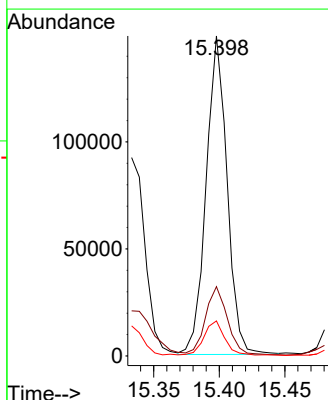
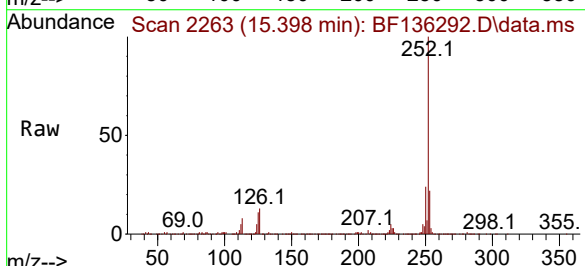
RT: 15.398 min Scan# 2263

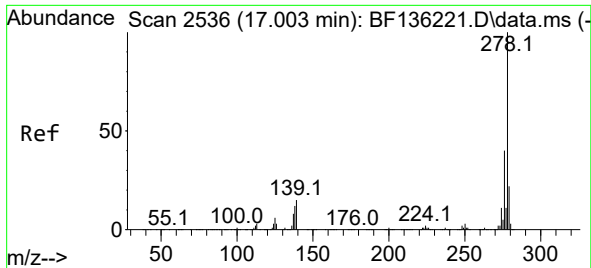
Delta R.T. -0.011 min

Lab File: BF136292.D

Acq: 29 Nov 2023 19:46

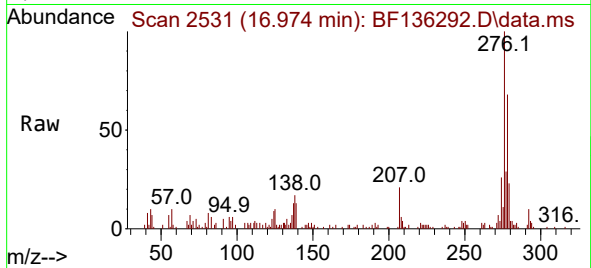
Tgt Ion:252 Resp: 165761
 Ion Ratio Lower Upper
 252 100
 253 21.7 15.5 23.3
 125 10.9 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 7.834 ng m
RT: 16.974 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

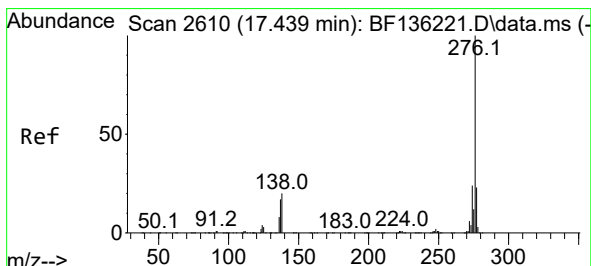
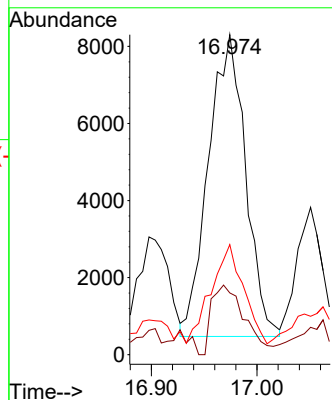
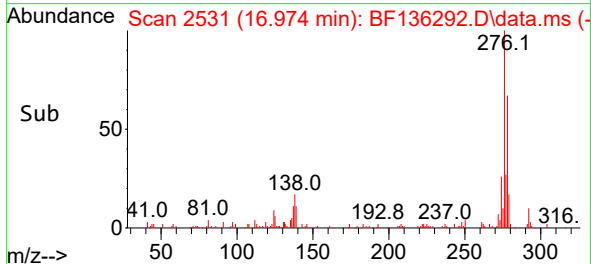
Instrument :
BNA_F
ClientSampleId :
TP-13DL



Tgt Ion:278 Resp: 1913
Ion Ratio Lower Upper
278 100
139 19.3 11.7 17.5
279 34.4 17.8 26.8

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 18.314 ng
RT: 17.409 min Scan# 2605
Delta R.T. -0.030 min
Lab File: BF136292.D
Acq: 29 Nov 2023 19:46

Tgt Ion:276 Resp: 60460
Ion Ratio Lower Upper
276 100
277 25.0 18.6 27.8
138 20.7 15.8 23.8

