

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112423\
 Data File : BF136215.D
 Acq On : 25 Nov 2023 10:52
 Operator : CG\JU
 Sample : 05253-04DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-3(195FT)(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2023
 Supervised By :mohammad ahmed 11/27/2023

Quant Time: Nov 27 02:22:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 24 23:44:28 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	137104	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	567518	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	271264	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	395391	20.000	ng	0.00
76) Chrysene-d12	13.986	240	284663	20.000	ng	0.00
86) Perylene-d12	15.468	264	300245	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	146937	17.064	ng	0.00
7) Phenol-d6	6.428	99	193370	18.250	ng	-0.02
23) Nitrobenzene-d5	7.363	82	114492	11.258	ng	-0.01
42) 2,4,6-Tribromophenol	10.627	330	30079	10.587	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	258909	14.109	ng	-0.01
79) Terphenyl-d14	12.927	244	192970	9.622	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	3627897	129.770	ng	95
37) 2-Methylnaphthalene	8.798	142	1195434	63.776	ng	91
38) 1-Methylnaphthalene	8.898	142	777874	44.729	ng	89
46) 1,1'-Biphenyl	9.263	154	233233	10.957	ng	98
49) Acenaphthylene	9.698	152	138343	5.761	ng	# 95
52) Acenaphthene	9.874	154	418079	26.137	ng	90
55) Dibenzofuran	10.045	168	54128	2.434	ng	# 87
58) Fluorene	10.392	166	325405	19.279	ng	95
71) Phenanthrene	11.363	178	1547294	76.420	ng	96
72) Anthracene	11.410	178	362378	17.534	ng	98
75) Fluoranthene	12.551	202	521369	28.197	ng	97
78) Pyrene	12.780	202	924088	34.715	ng	96
81) Benzo(a)anthracene	13.974	228	328517m	17.399	ng	
83) Chrysene	14.009	228	329093m	17.816	ng	
87) Indeno(1,2,3-cd)pyrene	16.968	276	83291	3.786	ng	98
88) Benzo(b)fluoranthene	15.033	252	247781m	14.948	ng	
89) Benzo(k)fluoranthene	15.056	252	75273m	4.509	ng	
90) Benzo(a)pyrene	15.403	252	275724	16.864	ng	99
92) Benzo(g,h,i)perylene	17.427	276	91478	4.949	ng	99

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

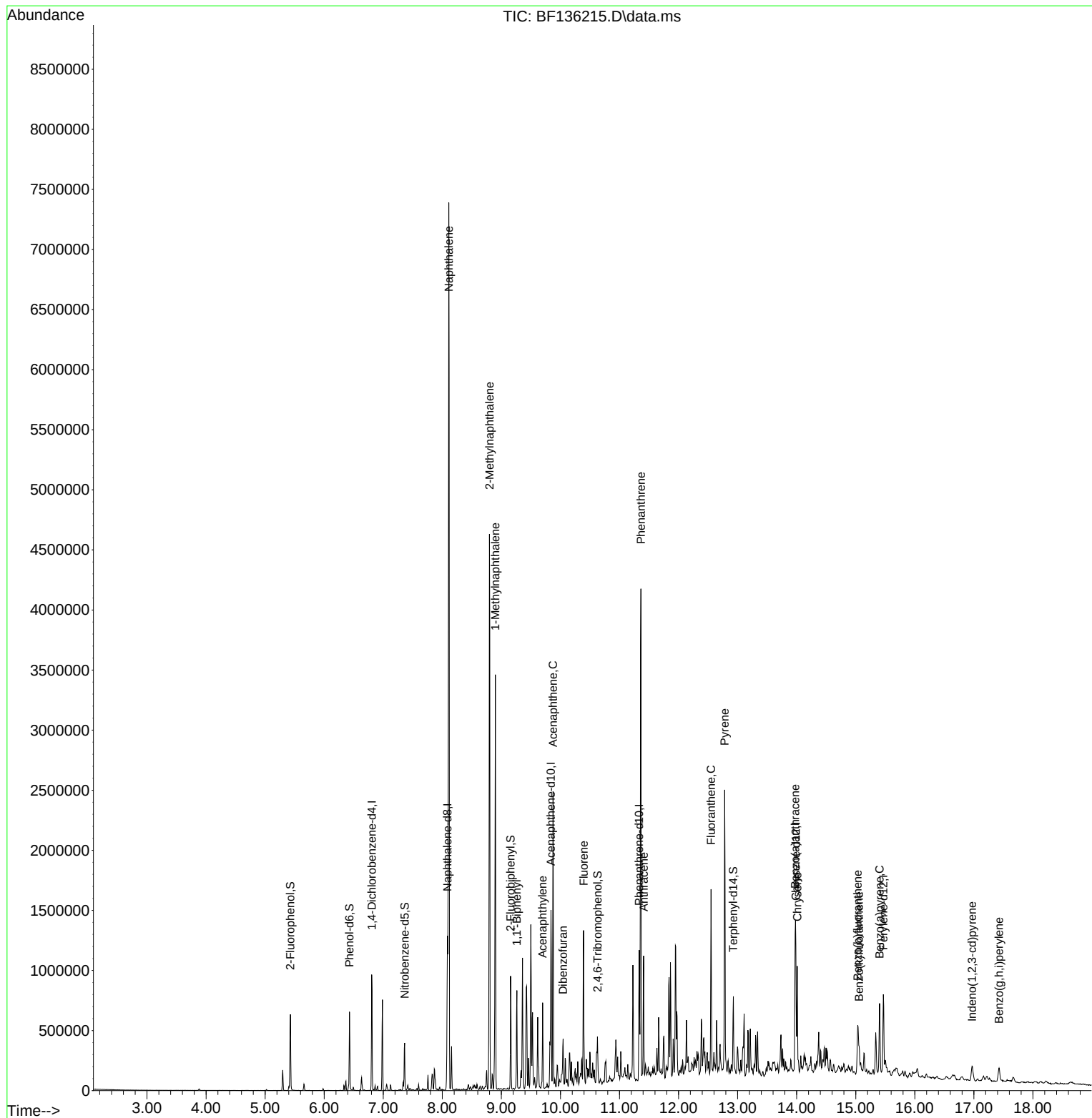
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112423\
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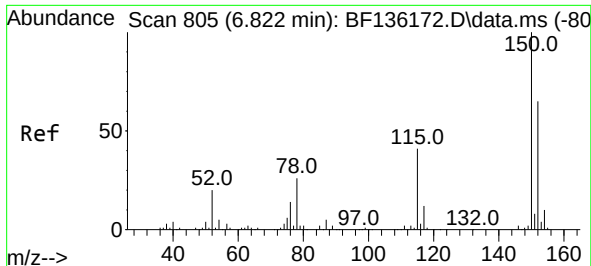
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Quant Time: Nov 27 02:22:09 2023
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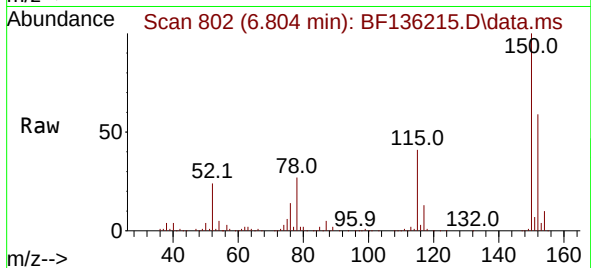
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

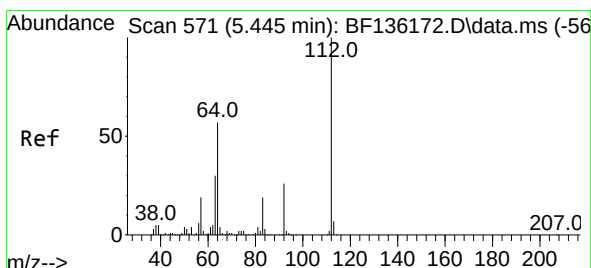
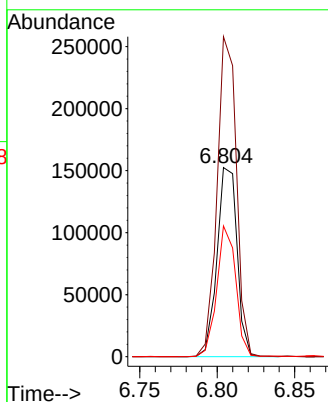
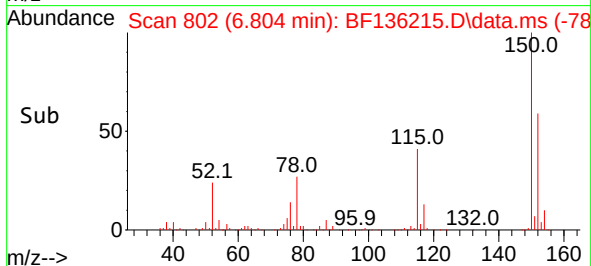
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion:152 Resp: 137104
Ion Ratio Lower Upper
152 100
150 169.2 123.1 184.7
115 69.1 50.5 75.7

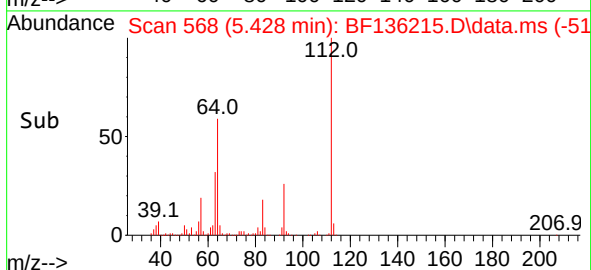
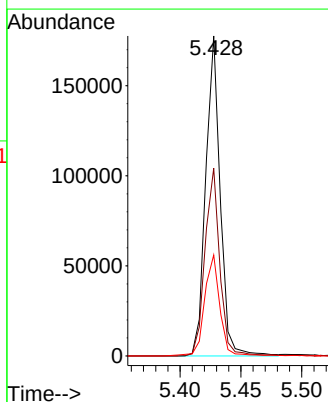
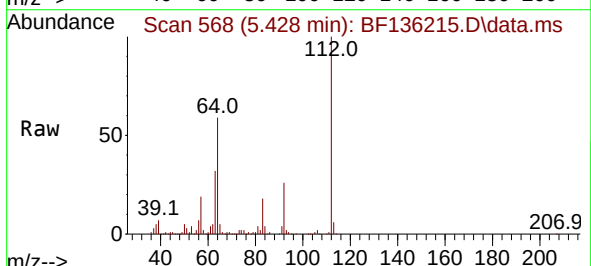
Manual Integrations
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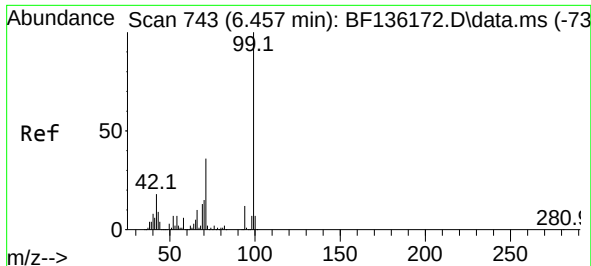
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#5
2-Fluorophenol
Concen: 17.064 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

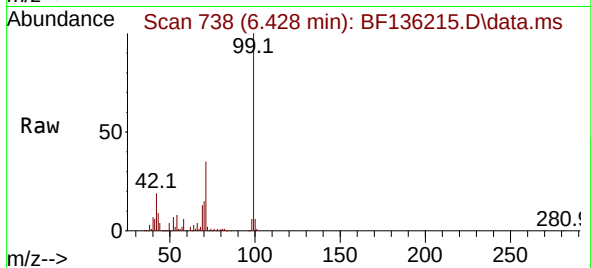
Tgt Ion:112 Resp: 146937
Ion Ratio Lower Upper
112 100
64 58.7 45.4 68.0
63 31.6 24.4 36.6





#7
Phenol-d6
Concen: 18.250 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

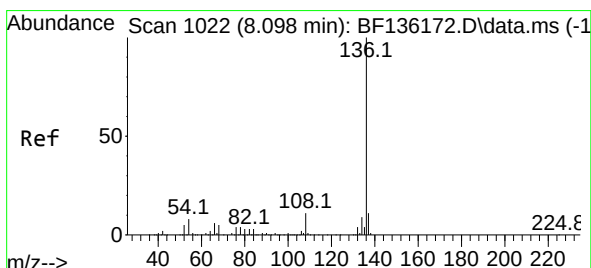
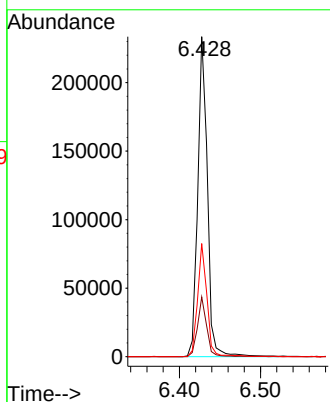
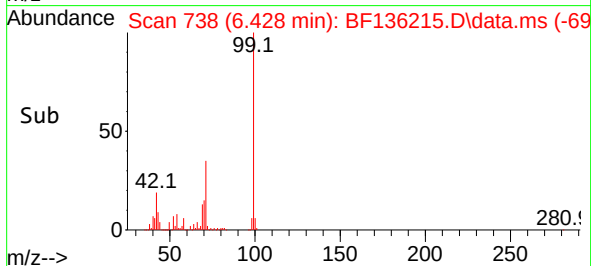
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 193370
Ion Ratio Lower Upper
99 100
42 18.7 14.1 21.1
71 35.4 29.0 43.4

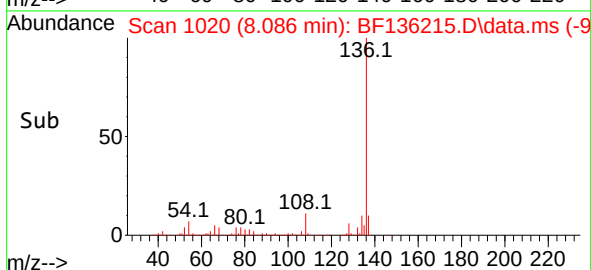
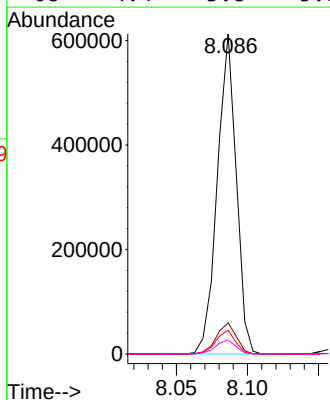
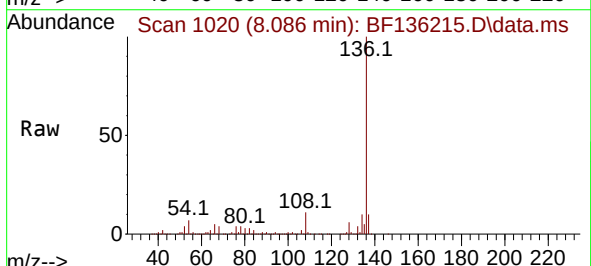
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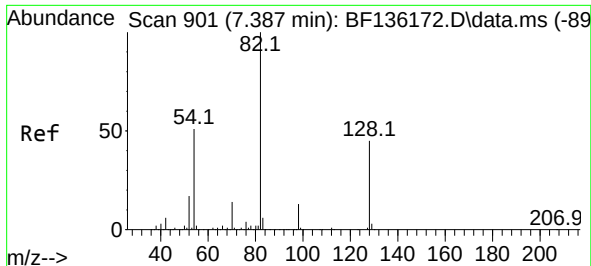
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.000 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion:136 Resp: 567518
Ion Ratio Lower Upper
136 100
137 9.7 8.6 13.0
54 7.4 6.3 9.5
68 4.4 3.8 5.8





#23

Nitrobenzene-d5

Concen: 11.258 ng

RT: 7.363 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF136215.D

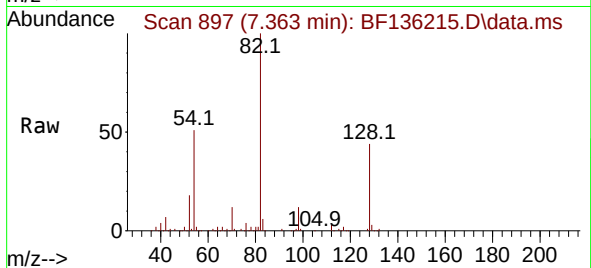
Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL



Tgt Ion: 82 Resp: 114492

Ion Ratio Lower Upper

82 100

128 43.5 35.8 53.6

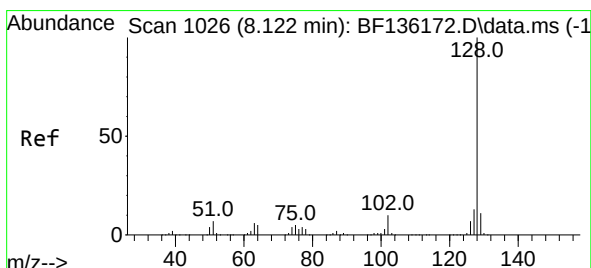
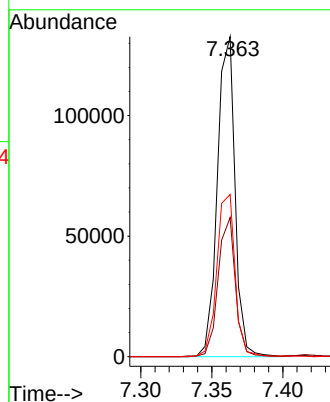
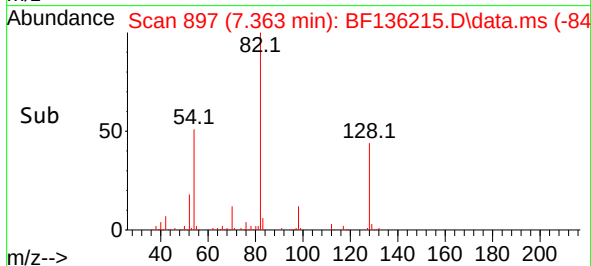
54 50.7 40.6 60.8

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#31

Naphthalene

Concen: 129.770 ng

RT: 8.110 min Scan# 1024

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

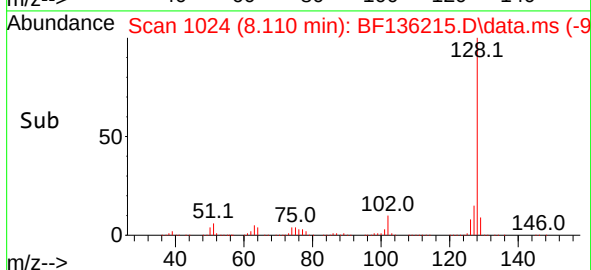
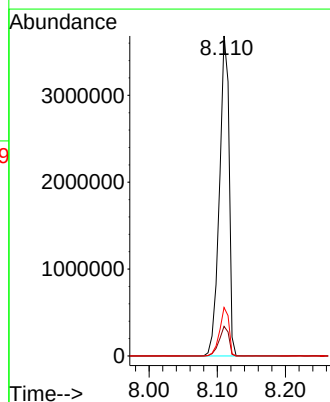
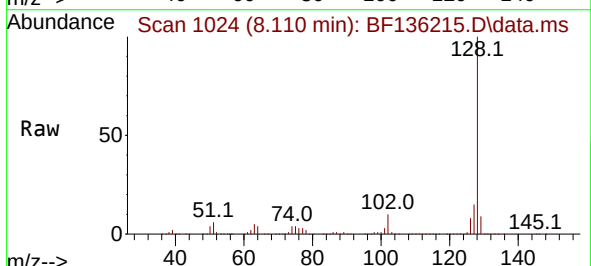
Tgt Ion:128 Resp: 3627897

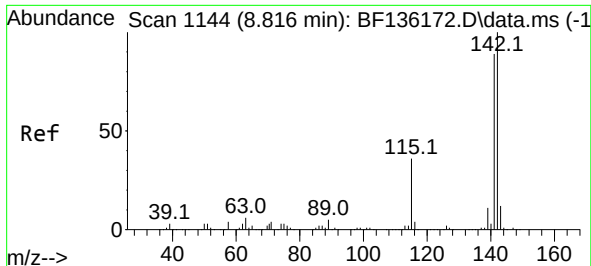
Ion Ratio Lower Upper

128 100

129 9.3 8.9 13.3

127 15.1 10.6 16.0





#37

2-Methylnaphthalene

Concen: 63.776 ng

RT: 8.798 min Scan# 1141

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

Tgt Ion:142 Resp: 1195434

Ion Ratio Lower Upper

142 100

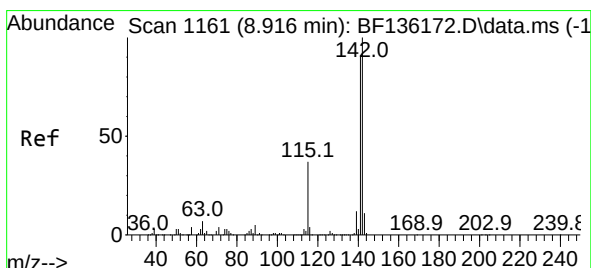
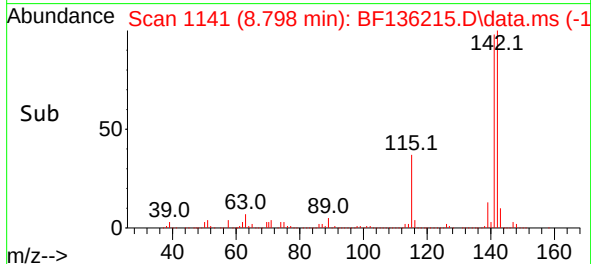
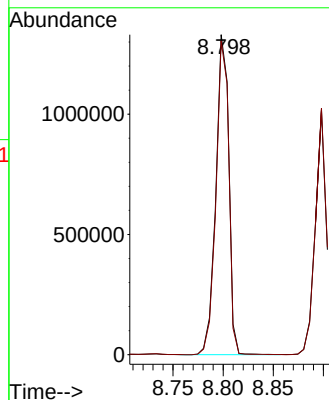
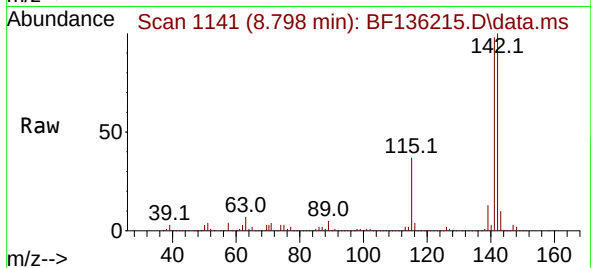
141 98.0 71.4 107.0

Manual Integrations

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Supervised By :mohammad ahmed 11/27/2023



#38

1-Methylnaphthalene

Concen: 44.729 ng

RT: 8.898 min Scan# 1158

Delta R.T. -0.000 min

Lab File: BF136215.D

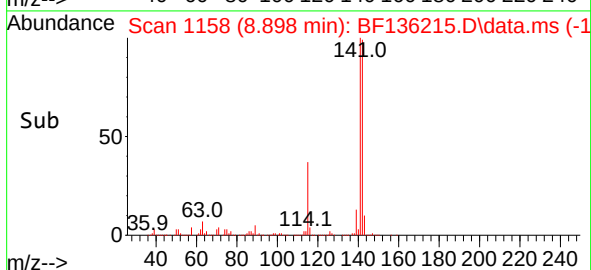
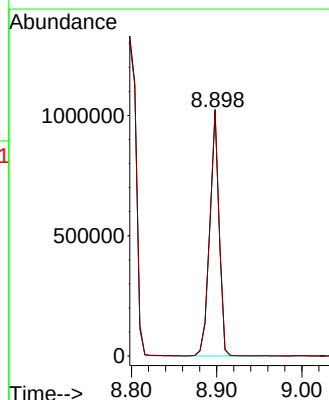
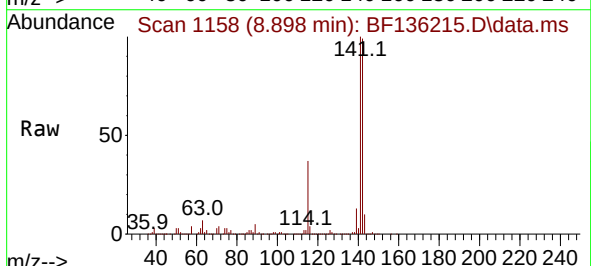
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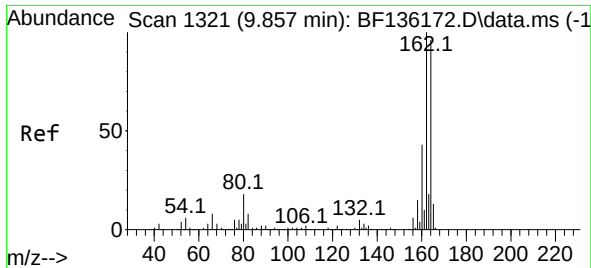
Tgt Ion:142 Resp: 777874

Ion Ratio Lower Upper

142 100

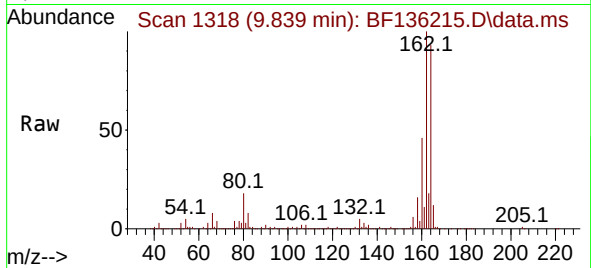
141 100.9 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

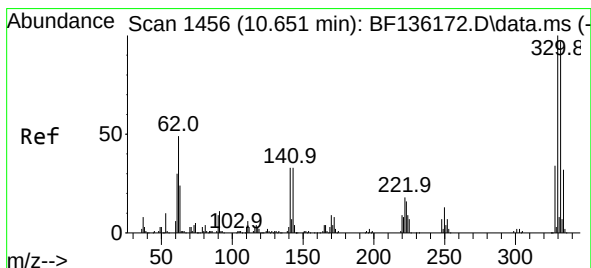
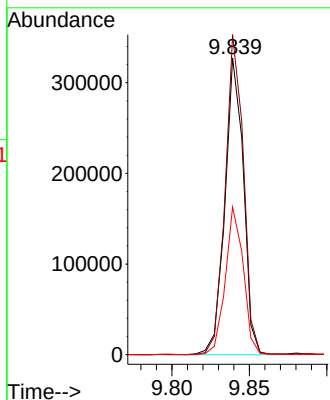
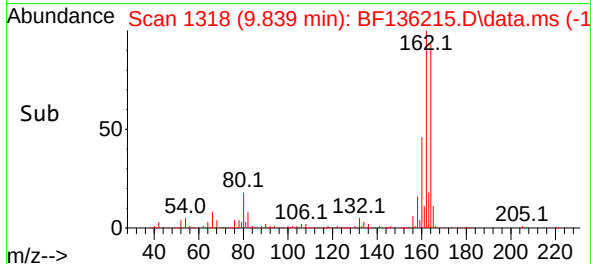
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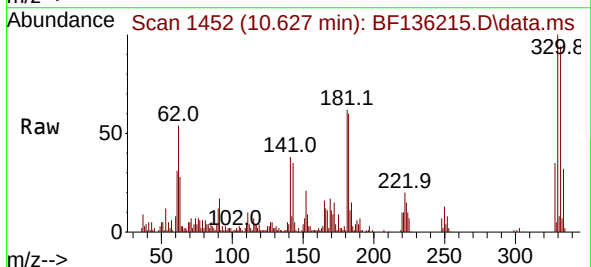
Tgt Ion:164 Resp: 271264
Ion Ratio Lower Upper
164 100
162 107.8 83.2 124.8
160 49.8 35.8 53.8

Manual Integrations
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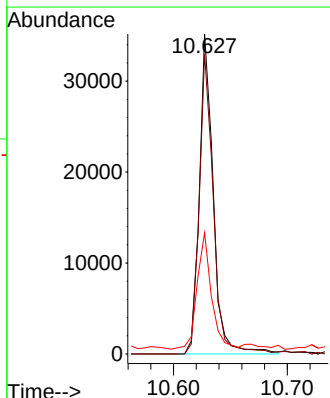
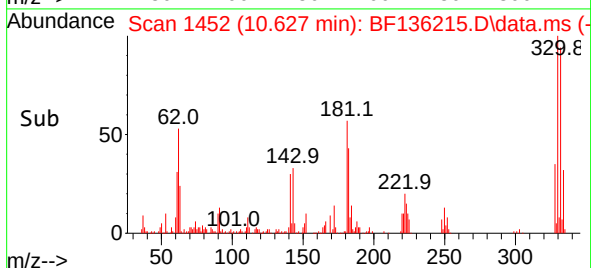
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

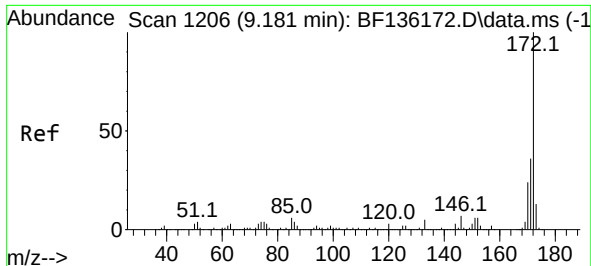


#42
2,4,6-Tribromophenol
Concen: 10.587 ng
RT: 10.627 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



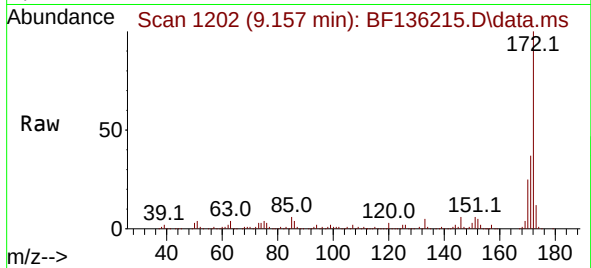
Tgt Ion:330 Resp: 30079
Ion Ratio Lower Upper
330 100
332 94.5 77.6 116.4
141 37.5 25.8 38.6





#45
2-Fluorobiphenyl
Concen: 14.109 ng
RT: 9.157 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

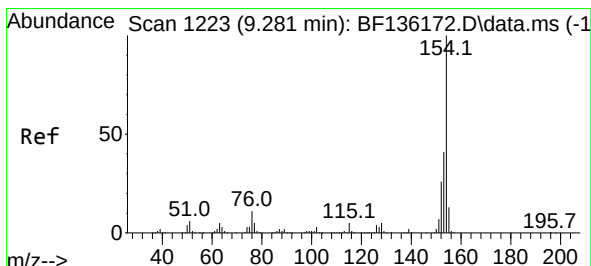
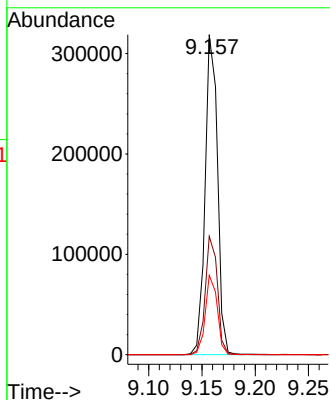
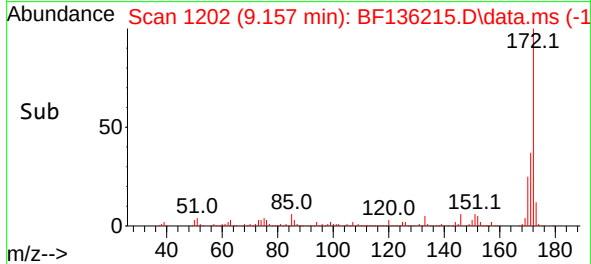
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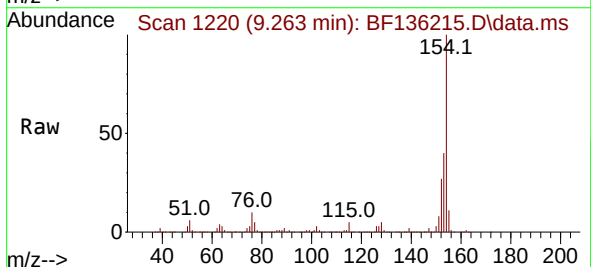
Tgt Ion:172 Resp: 258909
Ion Ratio Lower Upper
172 100
171 37.0 28.9 43.3
170 24.8 19.1 28.7

Manual Integrations
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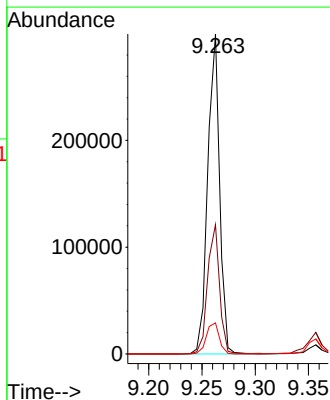
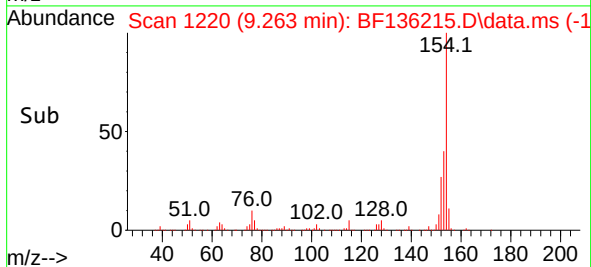
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

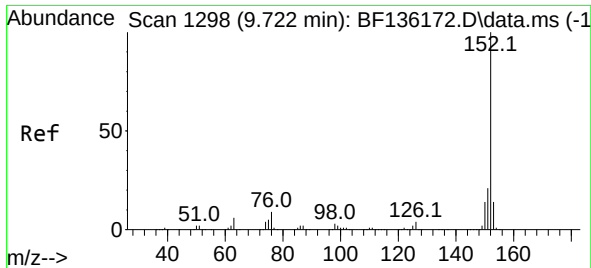


#46
1,1'-Biphenyl
Concen: 10.957 ng
RT: 9.263 min Scan# 1220
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



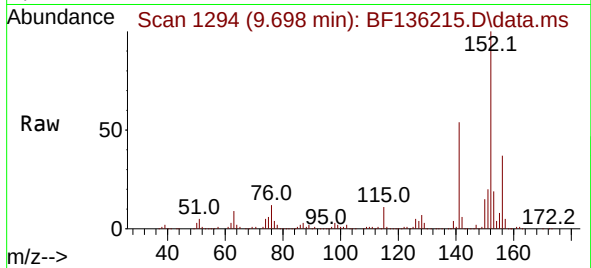
Tgt Ion:154 Resp: 233233
Ion Ratio Lower Upper
154 100
153 40.4 21.1 61.1
76 9.7 0.0 31.2





#49
Acenaphthylene
Concen: 5.761 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

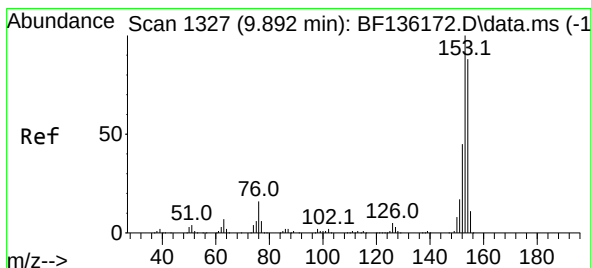
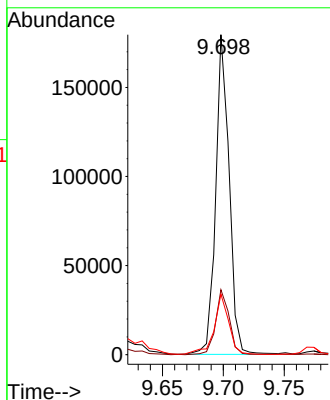
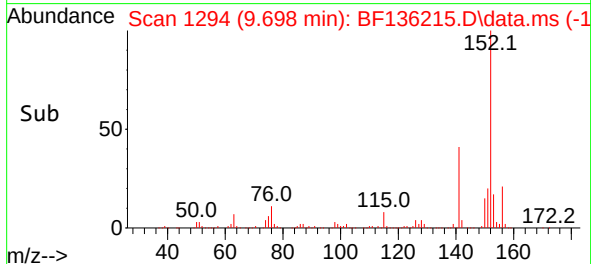
Instrument :
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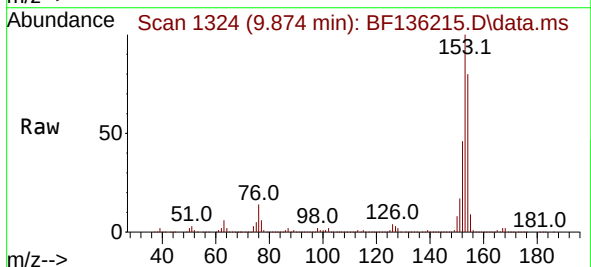
Tgt Ion:152 Resp: 13834
Ion Ratio Lower Upper
152 100
151 20.3 16.4 24.6
153 18.9 11.1 16.7

Manual Integrations
APPROVED

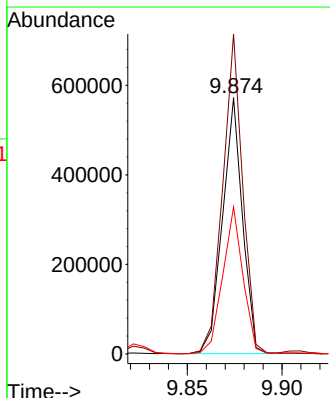
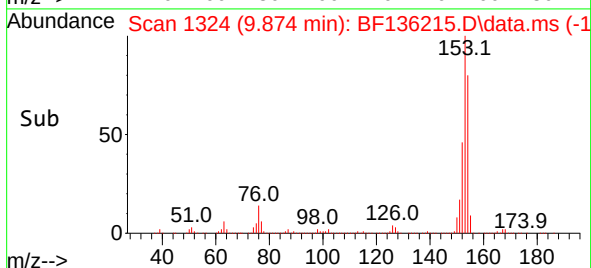
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

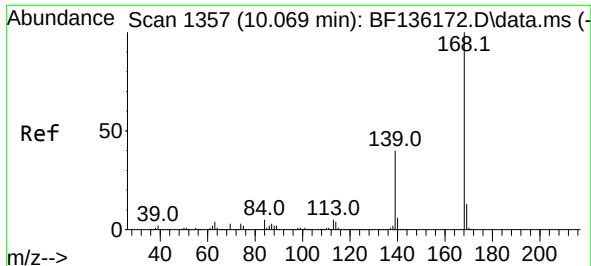


#52
Acenaphthene
Concen: 26.137 ng
RT: 9.874 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



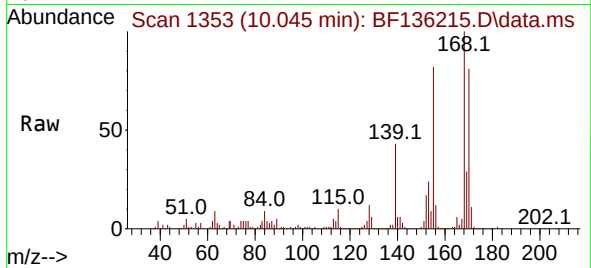
Tgt Ion:154 Resp: 418079
Ion Ratio Lower Upper
154 100
153 124.9 90.4 135.6
152 57.4 41.1 61.7





#55
Dibenzenofuran
Concen: 2.434 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

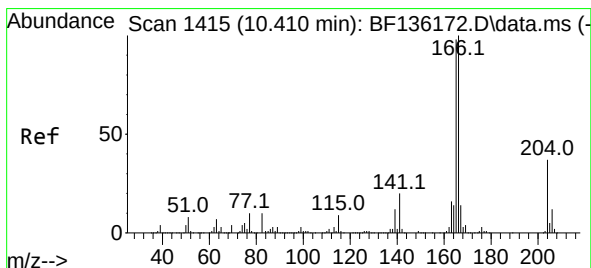
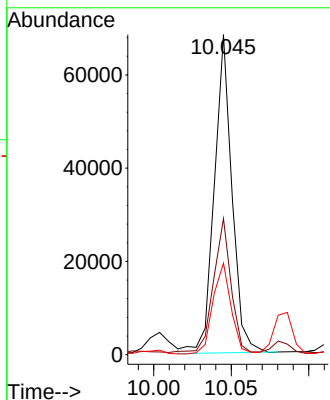
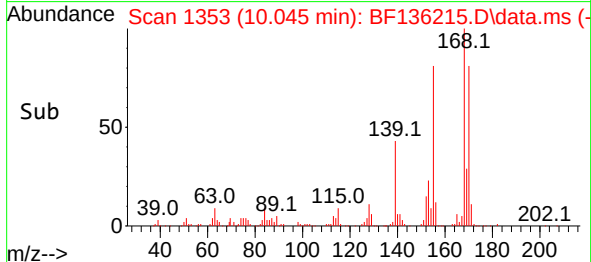
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



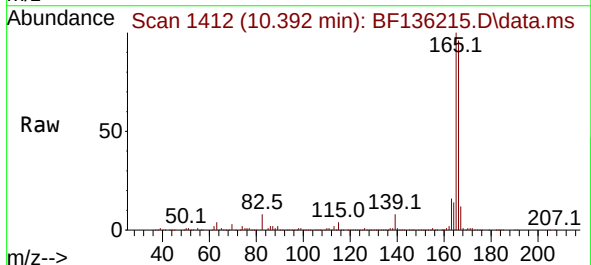
Tgt Ion:168 Resp: 54128
Ion Ratio Lower Upper
168 100
139 42.5 31.9 47.9
169 28.6 10.6 16.0

Manual Integrations
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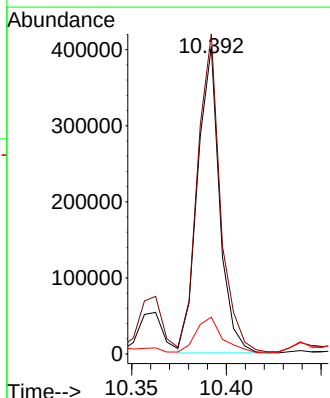
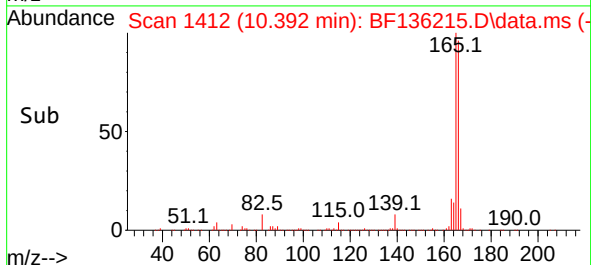
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

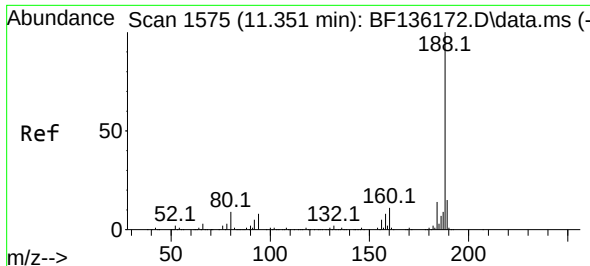


#58
Fluorene
Concen: 19.279 ng
RT: 10.392 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



Tgt Ion:166 Resp: 325405
Ion Ratio Lower Upper
166 100
165 104.1 78.8 118.2
167 12.0 10.9 16.3





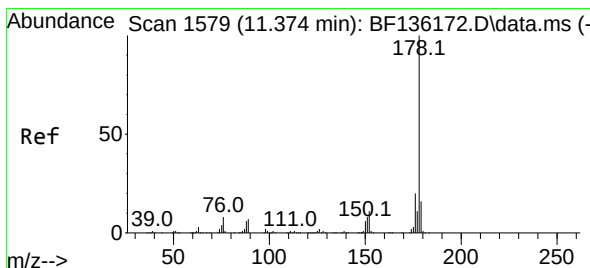
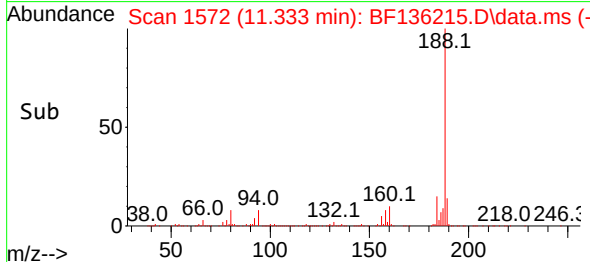
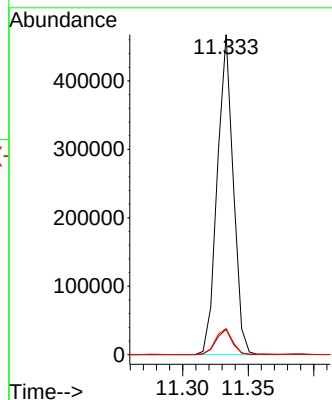
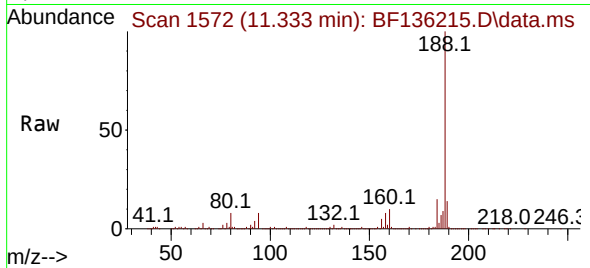
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL

Tgt Ion:188 Resp: 39539
Ion Ratio Lower Upper
188 100
94 7.9 6.6 9.8
80 8.2 7.3 10.9

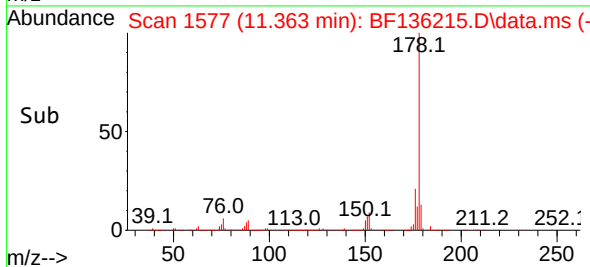
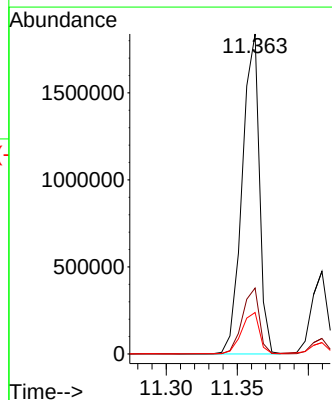
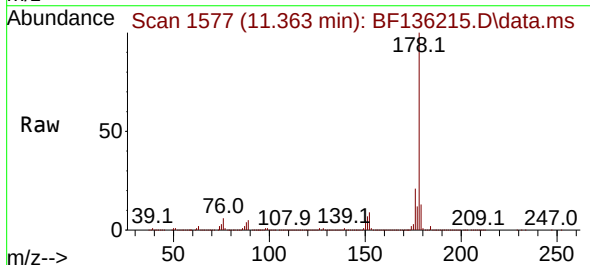
Manual Integrations
APPROVED

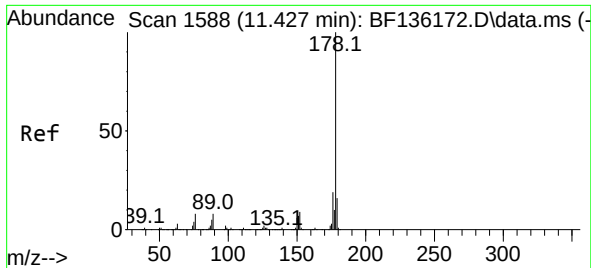
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#71
Phenanthrene
Concen: 76.420 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

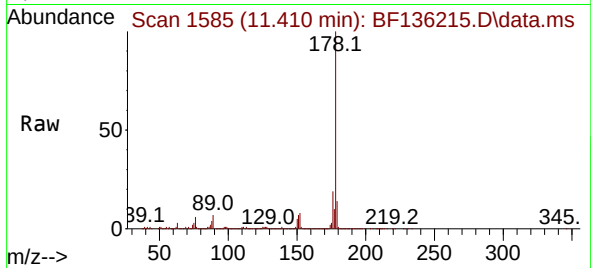
Tgt Ion:178 Resp: 1547294
Ion Ratio Lower Upper
178 100
176 20.6 15.8 23.8
179 12.9 12.7 19.1





#72
 Anthracene
 Concen: 17.534 ng
 RT: 11.410 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136215.D
 Acq: 25 Nov 2023 10:52

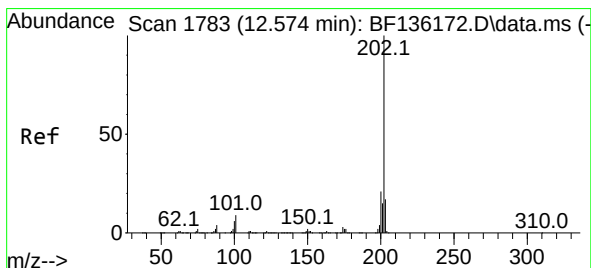
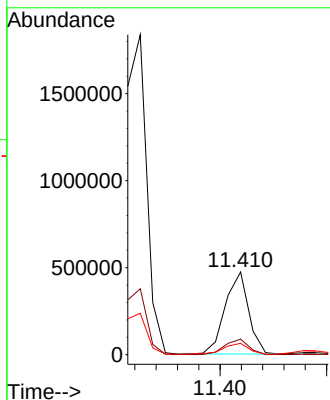
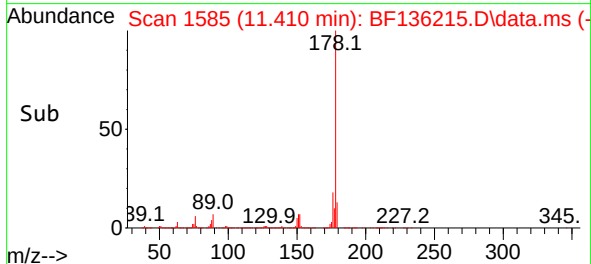
Instrument :
 BNA_F
 ClientSampleId :
 L-3(195FT)(0-5)DL



Tgt Ion:178 Resp: 362378
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.0 22.4
 179 13.8 12.6 18.8

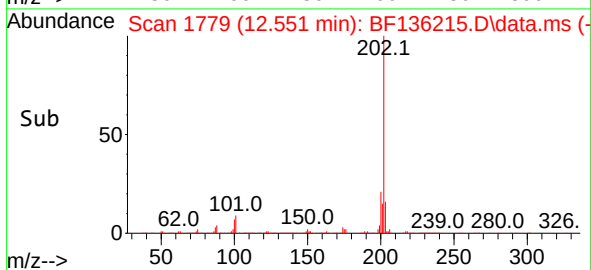
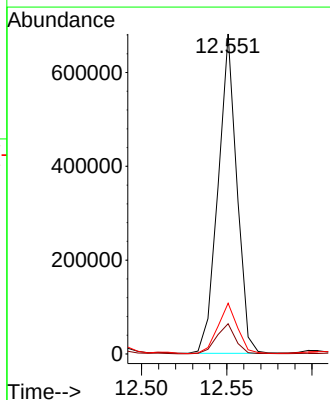
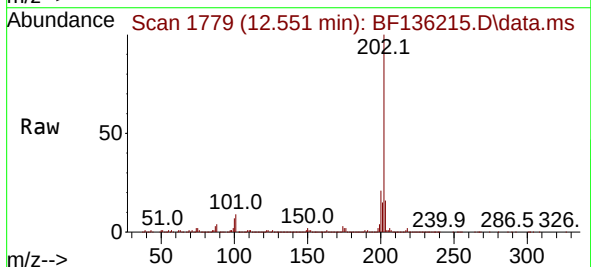
Manual Integrations
 APPROVED

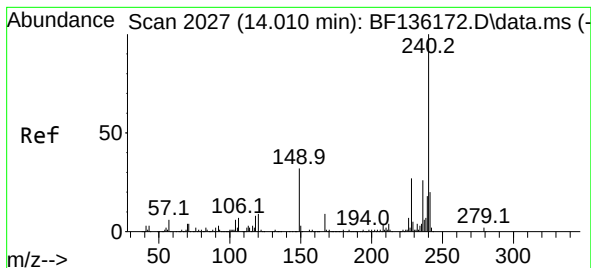
Reviewed By :Yogesh Patel 11/27/2023
 Supervised By :mohammad ahmed 11/27/2023



#75
 Fluoranthene
 Concen: 28.197 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.006 min
 Lab File: BF136215.D
 Acq: 25 Nov 2023 10:52

Tgt Ion:202 Resp: 521369
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 28.6
 203 15.8 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

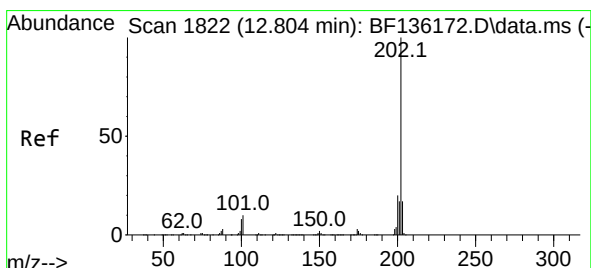
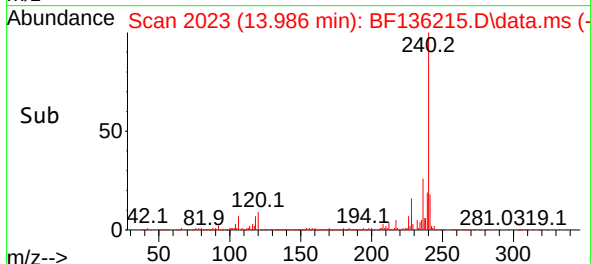
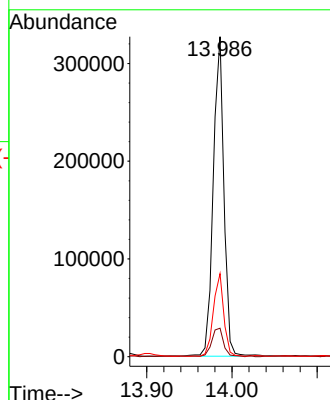
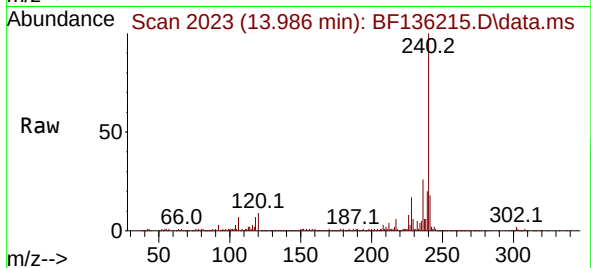
L-3(195FT)(0-5)DL

Tgt Ion:240 Resp: 28466
 Ion Ratio Lower Upper
 240 100
 120 8.9 7.1 10.7
 236 25.9 20.9 31.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2023
 Supervised By :mohammad ahmed 11/27/2023



#78

Pyrene

Concen: 34.715 ng

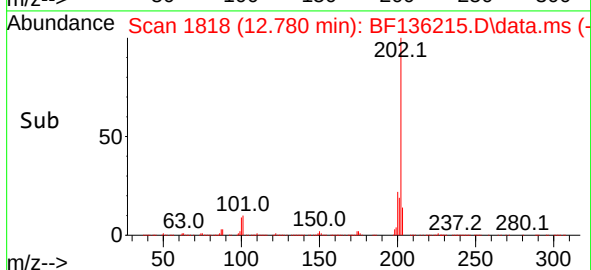
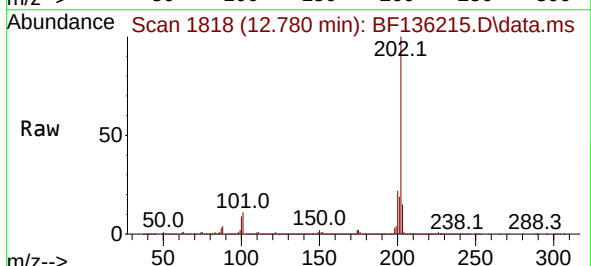
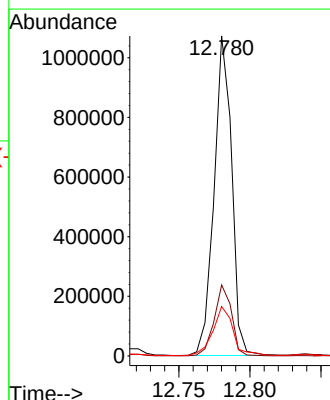
RT: 12.780 min Scan# 1818

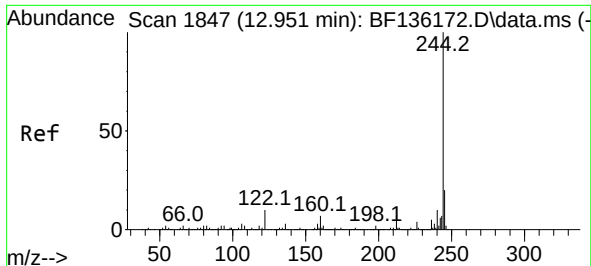
Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

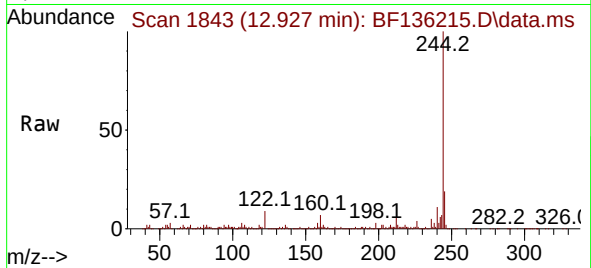
Tgt Ion:202 Resp: 924088
 Ion Ratio Lower Upper
 202 100
 200 22.2 16.2 24.2
 203 15.4 13.6 20.4





#79
 Terphenyl-d14
 Concen: 9.622 ng
 RT: 12.927 min Scan# 1843
 Delta R.T. -0.006 min
 Lab File: BF136215.D
 Acq: 25 Nov 2023 10:52

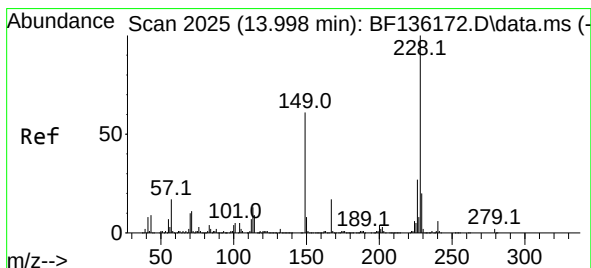
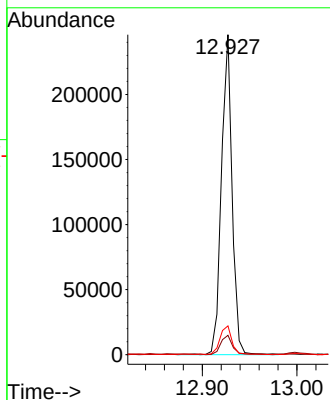
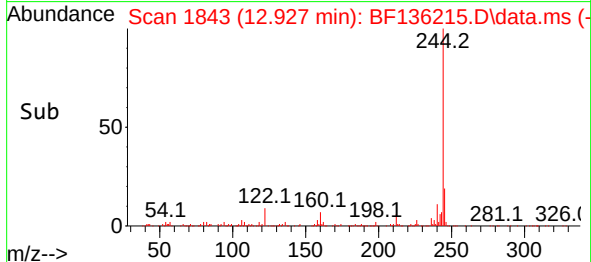
Instrument :
 BNA_F
 ClientSampleId :
 L-3(195FT)(0-5)DL



Tgt Ion:244 Resp: 192970
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.4 8.0
 122 9.0 8.1 12.1

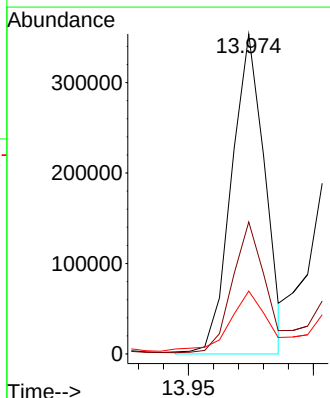
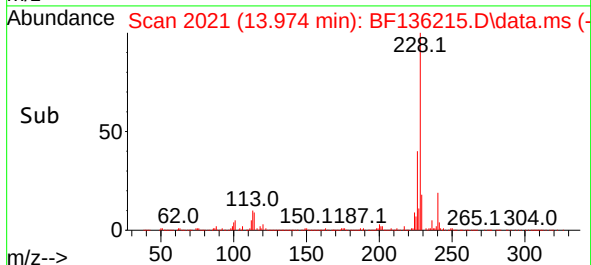
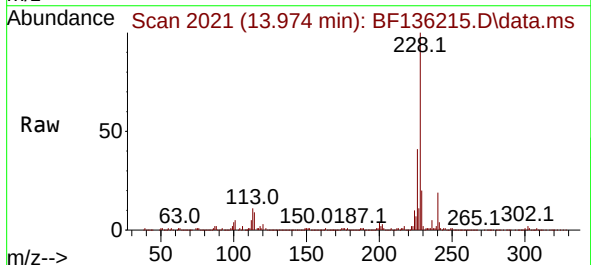
Manual Integrations
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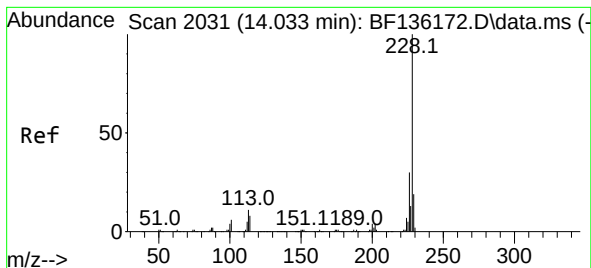
Reviewed By :Yogesh Patel 11/27/2023
 Supervised By :mohammad ahmed 11/27/2023



#81
 Benzo(a)anthracene
 Concen: 17.399 ng m
 RT: 13.974 min Scan# 2021
 Delta R.T. -0.006 min
 Lab File: BF136215.D
 Acq: 25 Nov 2023 10:52

Tgt Ion:228 Resp: 328517
 Ion Ratio Lower Upper
 228 100
 226 41.3 21.3 31.9#
 229 19.7 15.9 23.9





#83

Chrysene

Concen: 17.816 ng m

RT: 14.009 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

Tgt Ion:228 Resp: 32909

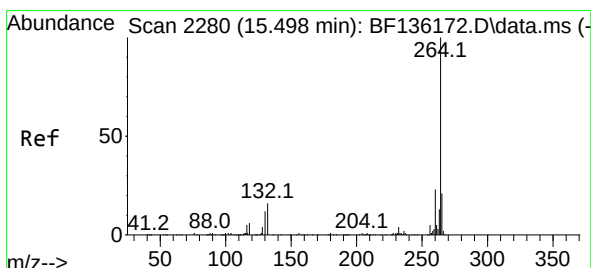
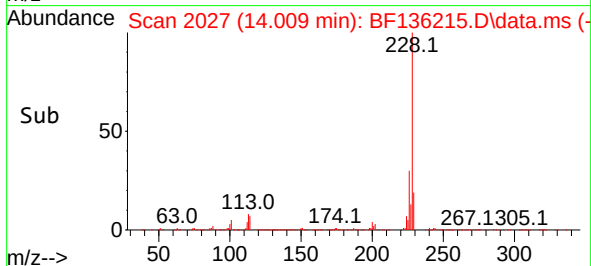
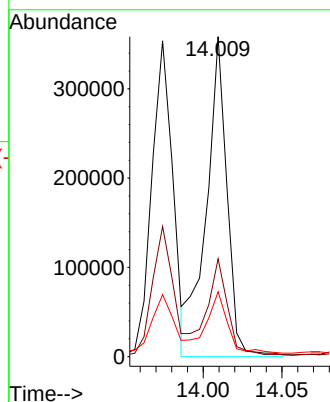
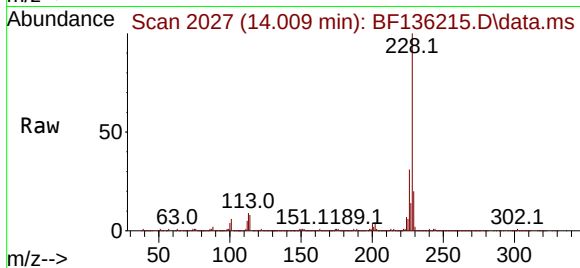
Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.8	35.6
229	20.3	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2023

Supervised By :mohammad ahmed 11/27/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

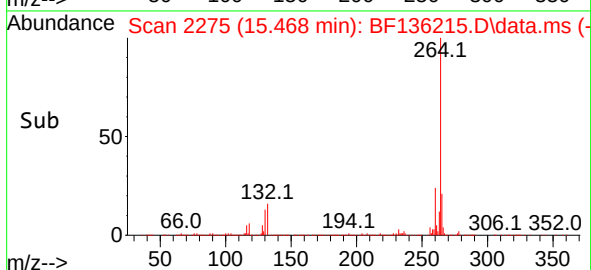
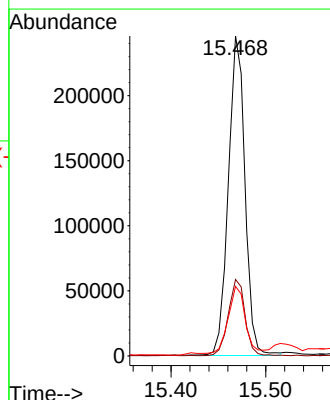
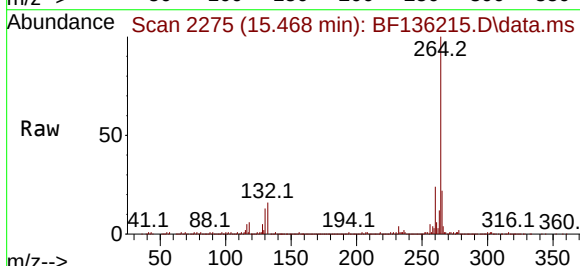
Delta R.T. -0.000 min

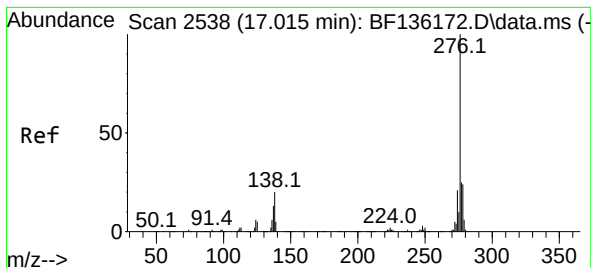
Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Tgt Ion:264 Resp: 300245

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.5	27.7
265	21.8	16.9	25.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.786 ng

RT: 16.968 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

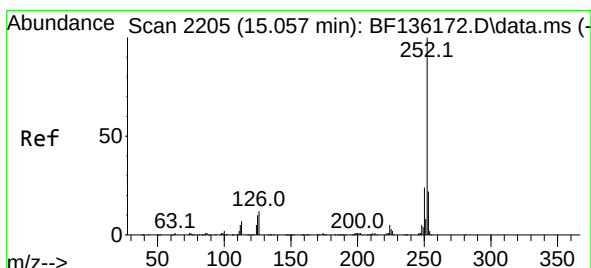
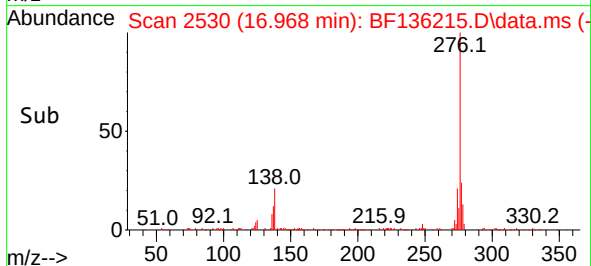
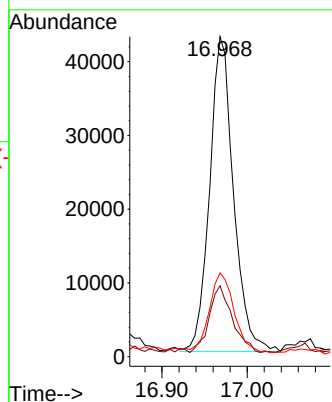
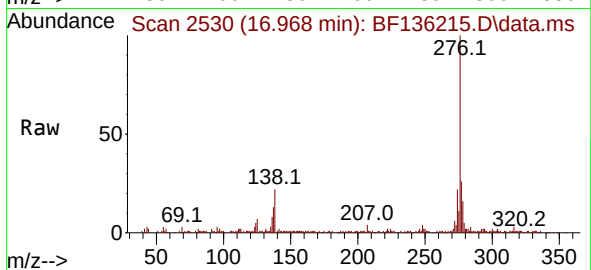
L-3(195FT)(0-5)DL

Tgt Ion:276 Resp: 8329
 Ion Ratio Lower Upper
 276 100
 138 20.6 17.7 26.5
 277 25.9 20.6 31.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2023
 Supervised By :mohammad ahmed 11/27/2023



#88

Benzo(b)fluoranthene

Concen: 14.948 ng m

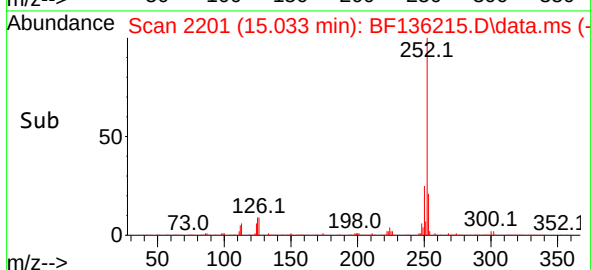
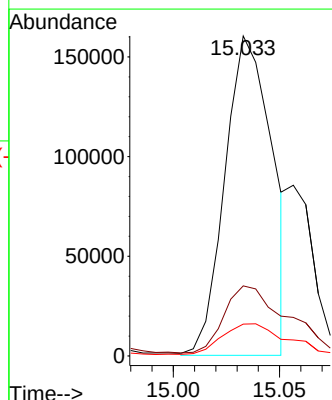
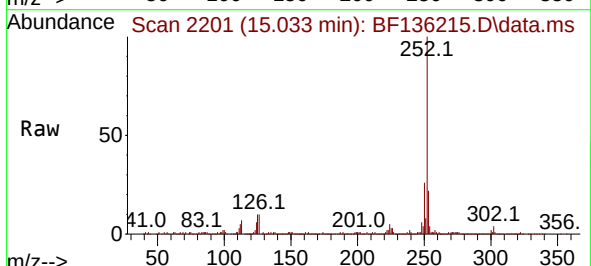
RT: 15.033 min Scan# 2201

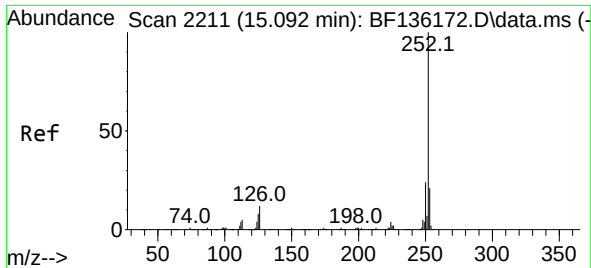
Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Tgt Ion:252 Resp: 247781
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.6 26.4
 125 10.0 7.8 11.8





#89

Benzo(k)fluoranthene

Concen: 4.509 ng m

RT: 15.056 min Scan# 2211

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

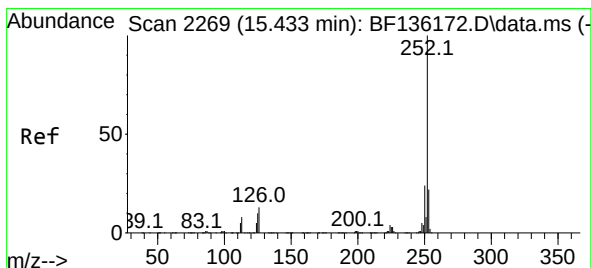
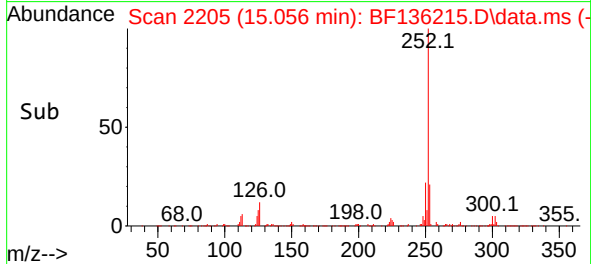
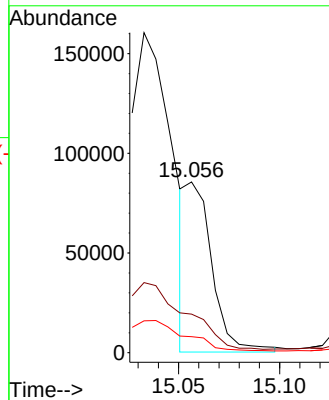
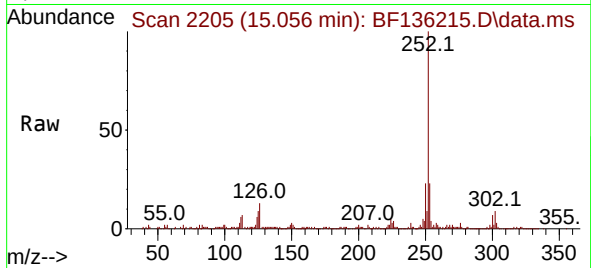
Tgt Ion:252 Resp: 75271
 Ion Ratio Lower Upper
 252 100
 253 22.5 17.3 25.9
 125 9.4 6.7 10.1

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2023

Supervised By :mohammad ahmed 11/27/2023



#90

Benzo(a)pyrene

Concen: 16.864 ng

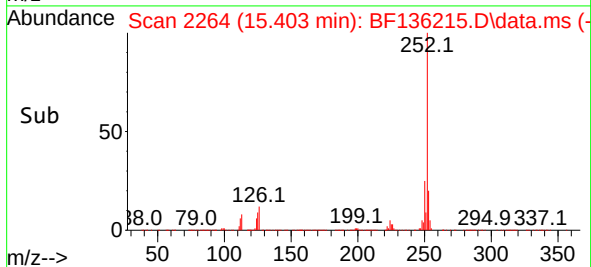
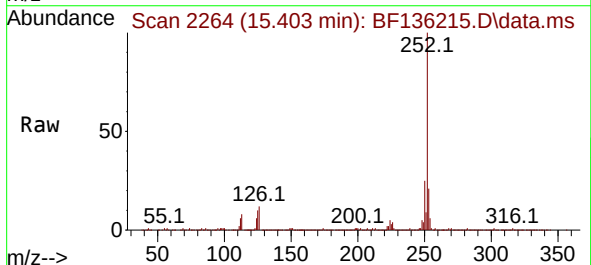
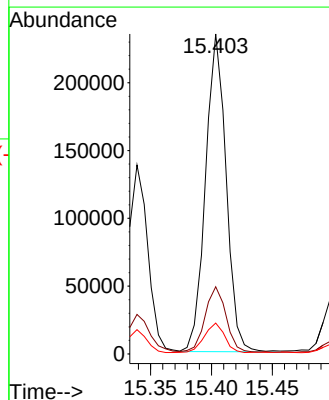
RT: 15.403 min Scan# 2264

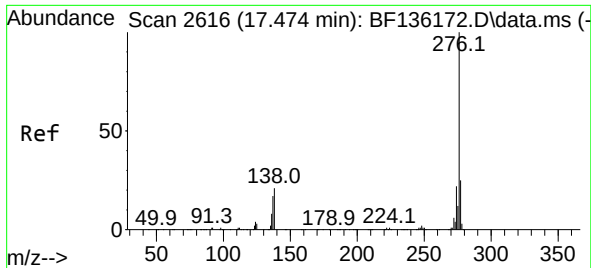
Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

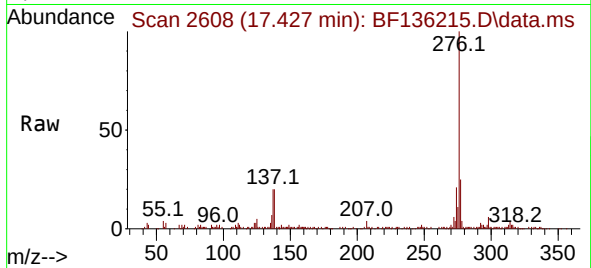
Tgt Ion:252 Resp: 275724
 Ion Ratio Lower Upper
 252 100
 253 21.0 17.3 25.9
 125 9.7 7.7 11.5





#92
Benzo(g,h,i)perylene
Concen: 4.949 ng
RT: 17.427 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion:276 Resp: 91478
Ion Ratio Lower Upper
276 100
277 25.3 19.8 29.6
138 20.5 16.4 24.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

