

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112423\
 Data File : BF136214.D
 Acq On : 25 Nov 2023 10:21
 Operator : CG\JU
 Sample : 05253-03DL 10X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL

Manual Integrations
 APPROVED

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

Quant Time: Nov 27 02:21:39 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	129427	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	552804	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	255539	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	374003	20.000	ng	0.00
76) Chrysene-d12	13.986	240	268756	20.000	ng	0.00
86) Perylene-d12	15.474	264	298861	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	82756	10.181	ng	0.00
7) Phenol-d6	6.428	99	110678	11.065	ng	-0.02
23) Nitrobenzene-d5	7.363	82	63975	6.458	ng	-0.01
42) 2,4,6-Tribromophenol	10.628	330	14853	5.550	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	148589	8.595	ng	-0.01
79) Terphenyl-d14	12.927	244	112522	5.943	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	1482305	54.433	ng	96
37) 2-Methylnaphthalene	8.798	142	779368	42.686	ng	91
38) 1-Methylnaphthalene	8.898	142	1154200	68.135	ng	88
46) 1,1'-Biphenyl	9.263	154	263572	13.145	ng	98
49) Acenaphthylene	9.698	152	421639	18.637	ng	# 95
52) Acenaphthene	9.875	154	186548	12.380	ng	91
58) Fluorene	10.392	166	588906	37.037	ng	90
71) Phenanthrene	11.363	178	2536882	132.460	ng	97
72) Anthracene	11.410	178	374082	19.135	ng	98
75) Fluoranthene	12.551	202	1057332	60.454	ng	97
78) Pyrene	12.786	202	1815474	72.238	ng	95
81) Benzo(a)anthracene	13.980	228	695990m	39.043	ng	
83) Chrysene	14.016	228	704107	40.373	ng	97
87) Indeno(1,2,3-cd)pyrene	16.974	276	190148	8.684	ng	96
88) Benzo(b)fluoranthene	15.039	252	561553m	34.033	ng	
89) Benzo(k)fluoranthene	15.063	252	150083m	9.033	ng	
90) Benzo(a)pyrene	15.410	252	591800	36.363	ng	100
91) Dibenzo(a,h)anthracene	16.986	278	55270	3.046	ng	93
92) Benzo(g,h,i)perylene	17.433	276	207283	11.266	ng	98

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

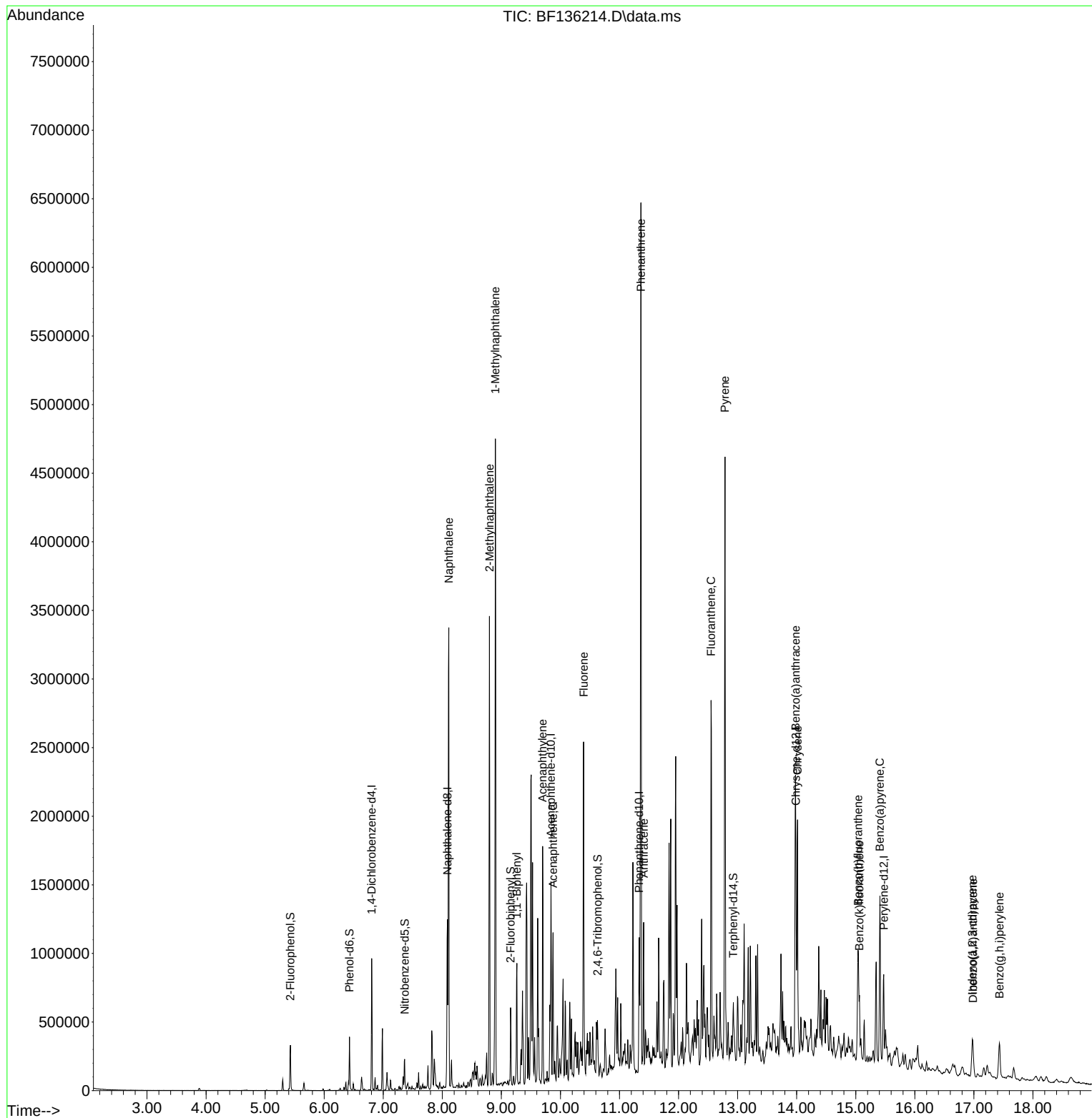
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112423\
Data File : BF136214.D
Acq On : 25 Nov 2023 10:21
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ALS Vial : 36 Sample Multiplier: 1

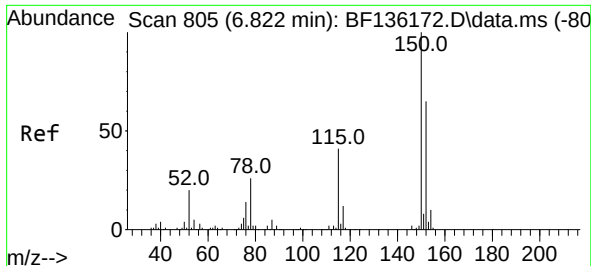
Instrument :
BNA_F
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L-3(120FT)(0-5)DL

Quant Time: Nov 27 02:21:39 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
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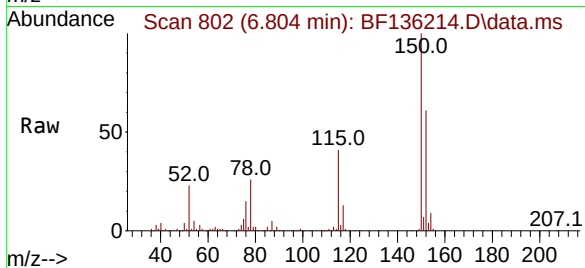
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

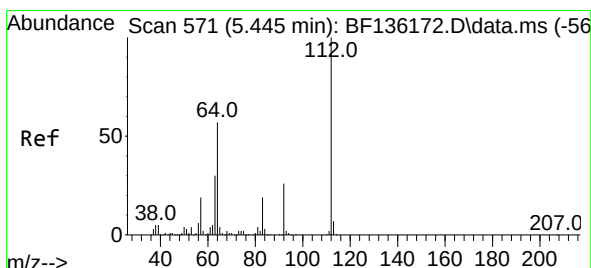
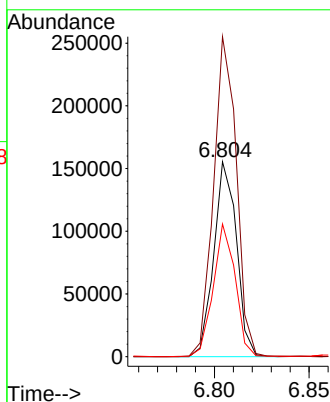
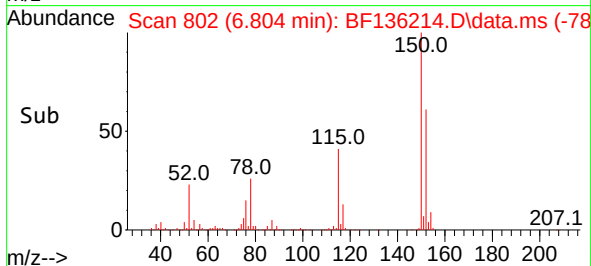
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:152 Resp: 12942
Ion Ratio Lower Upper
152 100
150 164.1 123.1 184.7
115 68.1 50.5 75.7

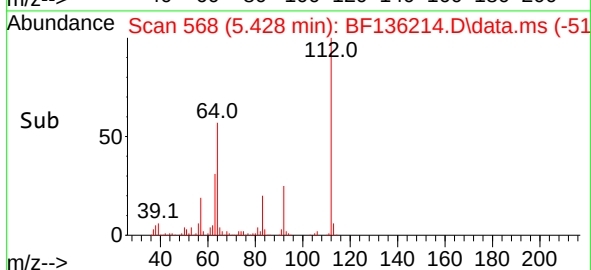
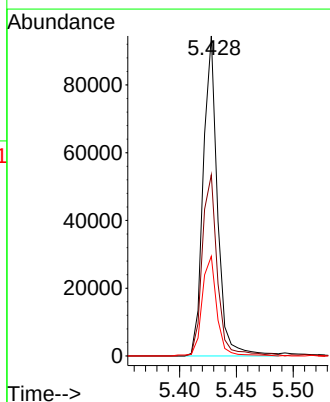
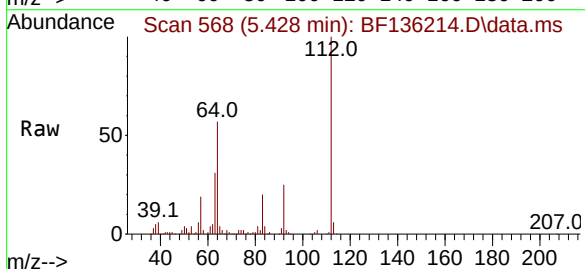
Manual Integrations
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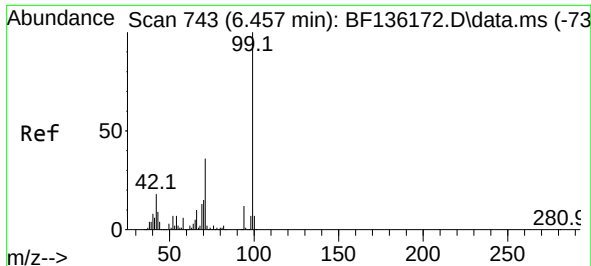
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#5
2-Fluorophenol
Concen: 10.181 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

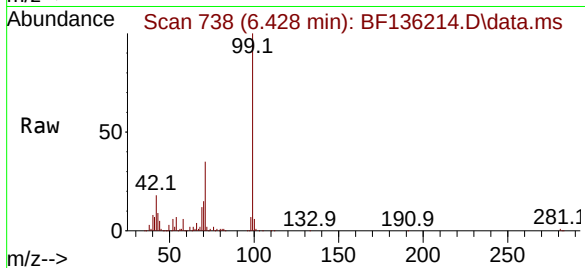
Tgt Ion:112 Resp: 82756
Ion Ratio Lower Upper
112 100
64 56.6 45.4 68.0
63 31.2 24.4 36.6





#7
Phenol-d6
Concen: 11.065 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

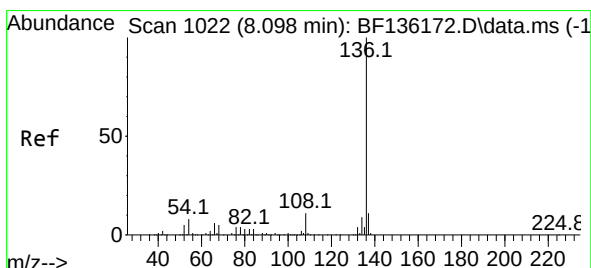
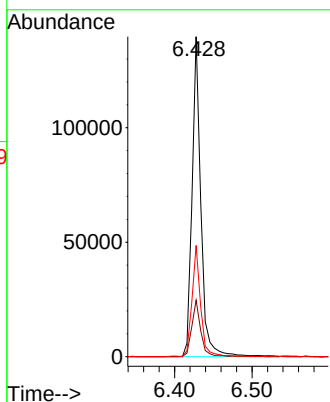
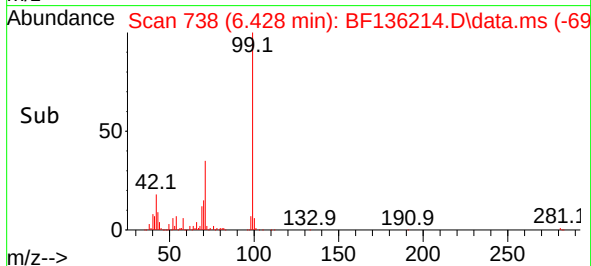
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



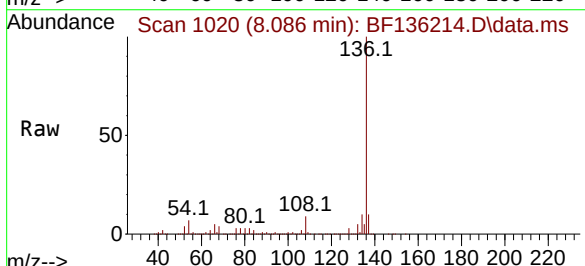
Tgt Ion: 99 Resp: 110678
Ion Ratio Lower Upper
99 100
42 17.7 14.1 21.1
71 34.8 29.0 43.4

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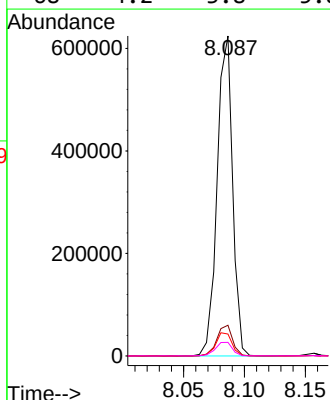
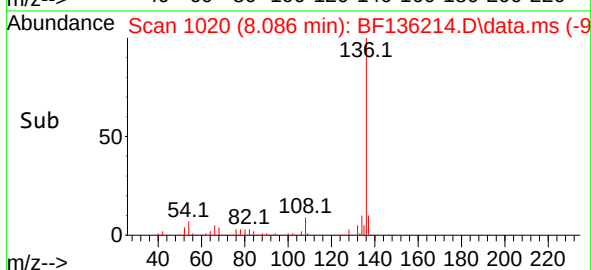
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

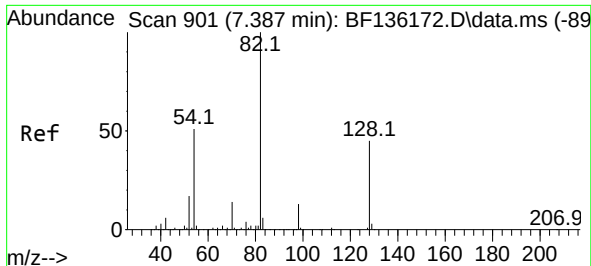


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21



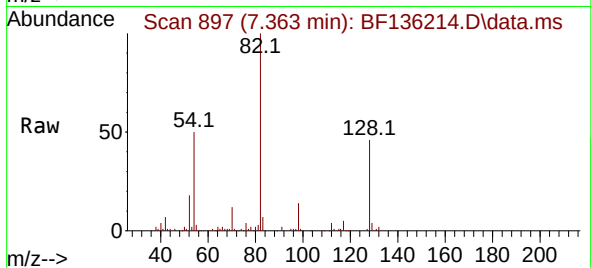
Tgt Ion:136 Resp: 552804
Ion Ratio Lower Upper
136 100
137 9.6 8.6 13.0
54 6.9 6.3 9.5
68 4.2 3.8 5.8





#23
Nitrobenzene-d5
Concen: 6.458 ng
RT: 7.363 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

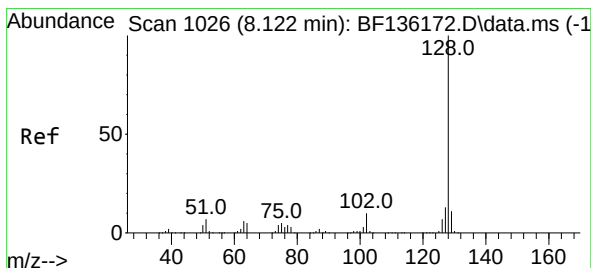
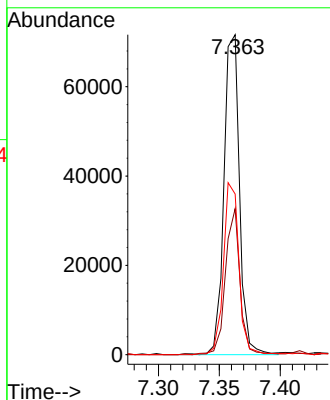
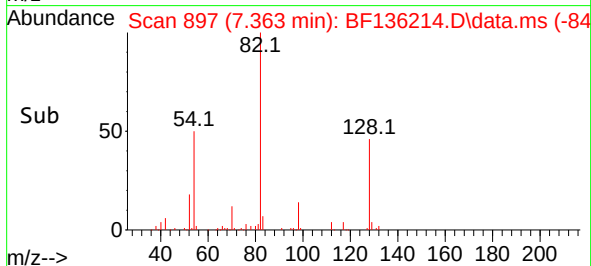
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion: 82 Resp: 63975
Ion Ratio Lower Upper
82 100
128 45.6 35.8 53.6
54 50.2 40.6 60.8

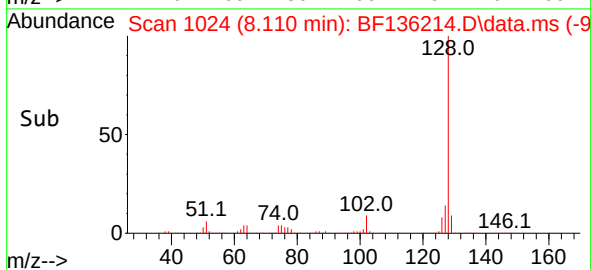
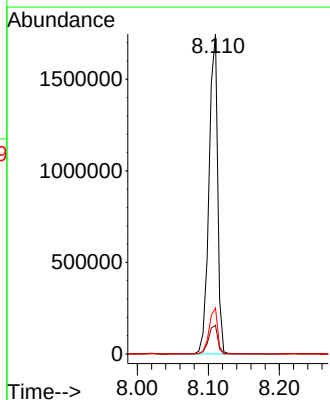
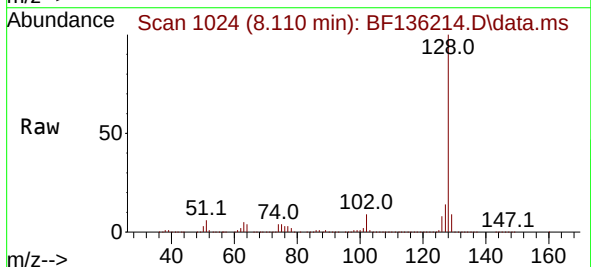
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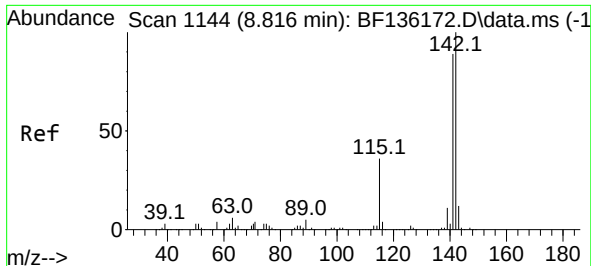
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#31
Naphthalene
Concen: 54.433 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

Tgt Ion:128 Resp: 1482305
Ion Ratio Lower Upper
128 100
129 9.0 8.9 13.3
127 14.3 10.6 16.0





#37

2-Methylnaphthalene

Concen: 42.686 ng

RT: 8.798 min Scan# 1141

Delta R.T. -0.006 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL

Tgt Ion:142 Resp: 77936

Ion Ratio Lower Upper

142 100

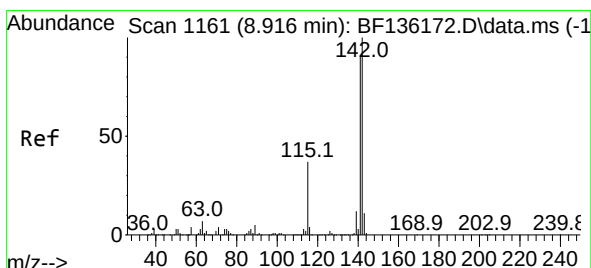
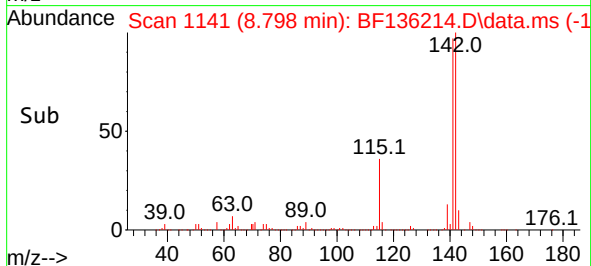
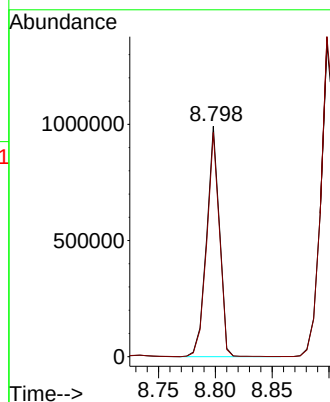
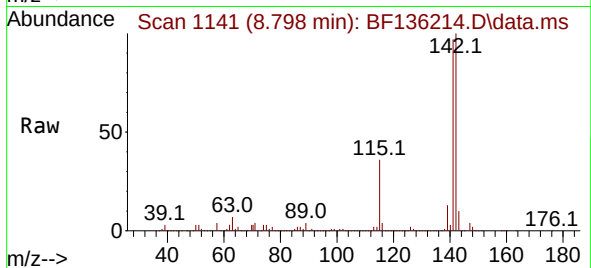
141 97.3 71.4 107.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2023

Supervised By :mohammad ahmed 11/27/2023



#38

1-Methylnaphthalene

Concen: 68.135 ng

RT: 8.898 min Scan# 1158

Delta R.T. -0.000 min

Lab File: BF136214.D

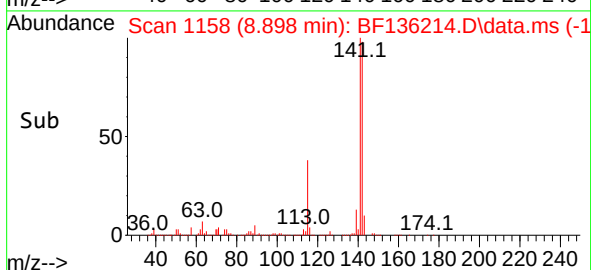
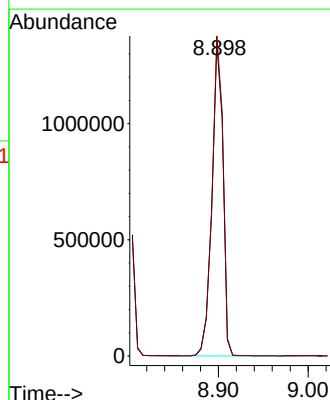
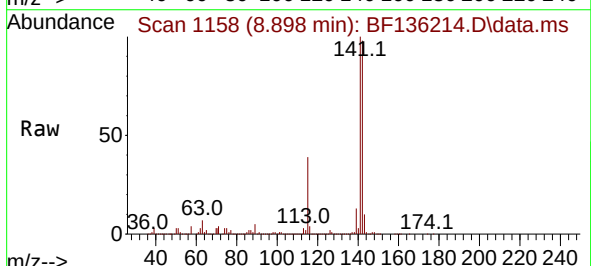
Acq: 25 Nov 2023 10:21

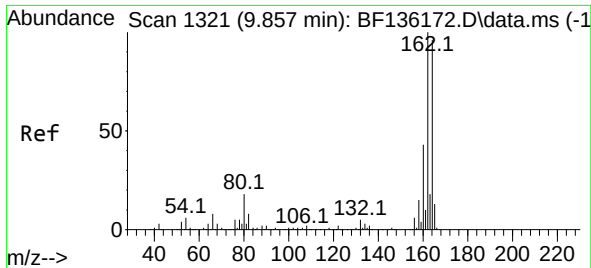
Tgt Ion:142 Resp: 1154200

Ion Ratio Lower Upper

142 100

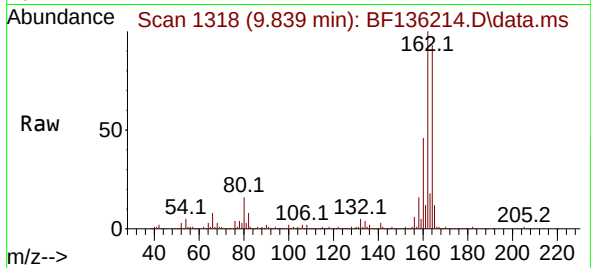
141 102.3 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

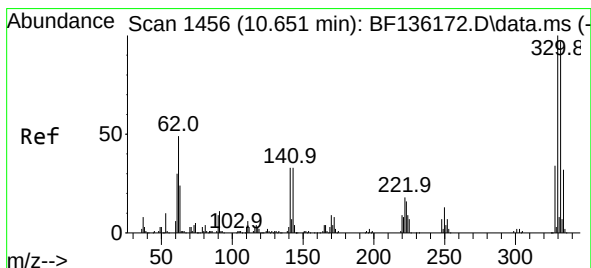
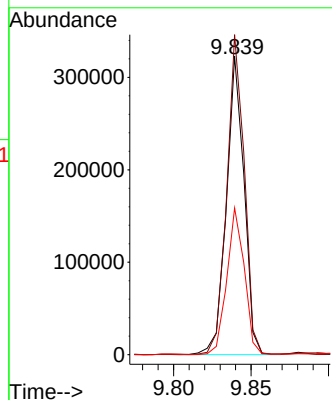
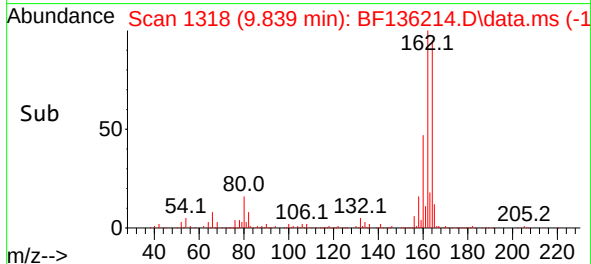
Instrument :
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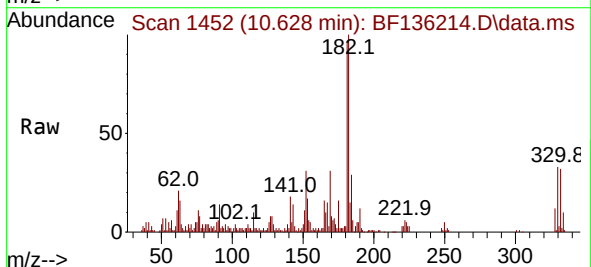
Tgt Ion:164 Resp: 255539
Ion Ratio Lower Upper
164 100
162 107.1 83.2 124.8
160 49.1 35.8 53.8

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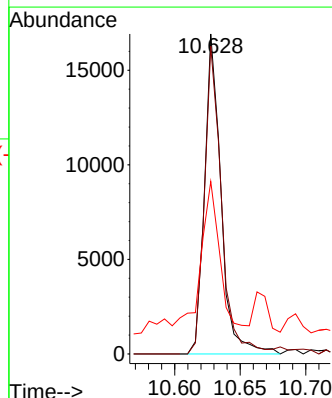
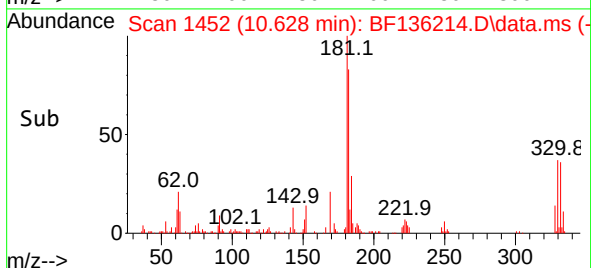
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

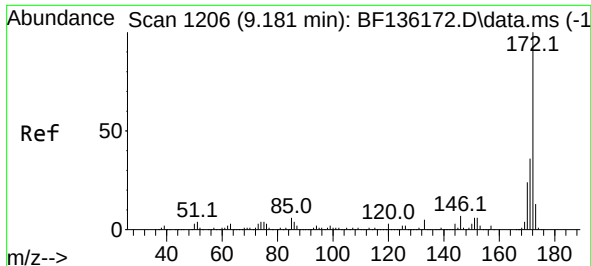


#42
2,4,6-Tribromophenol
Concen: 5.550 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21



Tgt Ion:330 Resp: 14853
Ion Ratio Lower Upper
330 100
332 98.6 77.6 116.4
141 60.8 25.8 38.6#





#45

2-Fluorobiphenyl

Concen: 8.595 ng

RT: 9.157 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL

Tgt Ion:172 Resp: 148589

Ion Ratio Lower Upper

172 100

171 36.8 28.9 43.3

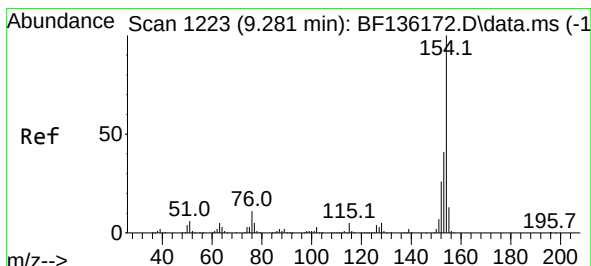
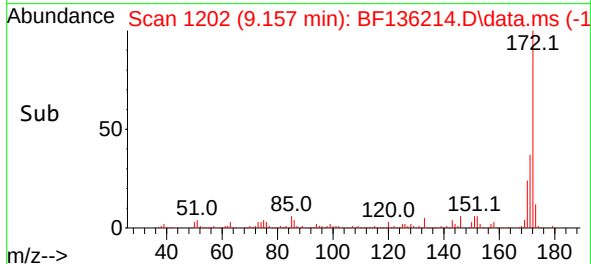
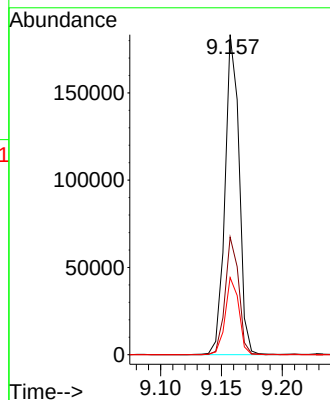
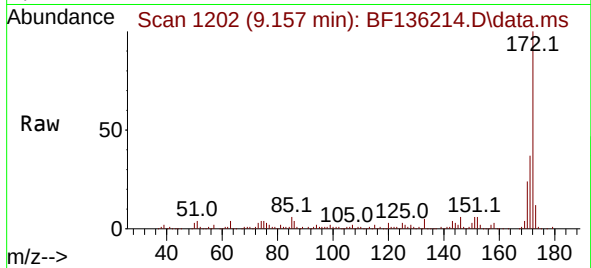
170 24.1 19.1 28.7

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: 13.145 ng

RT: 9.263 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

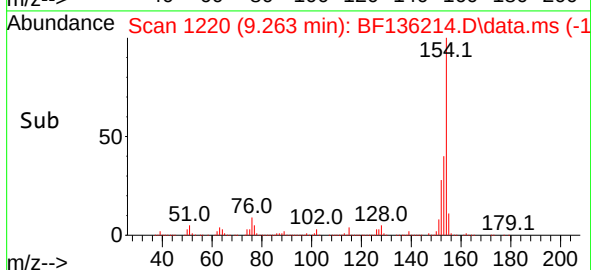
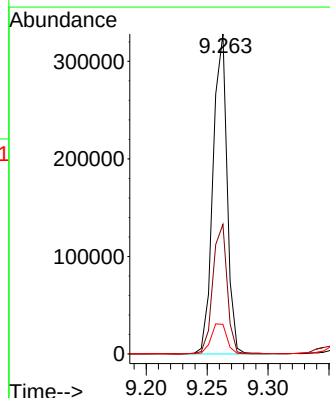
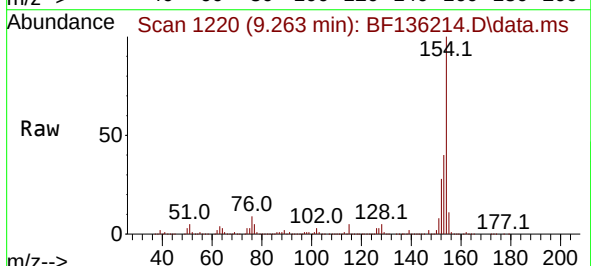
Tgt Ion:154 Resp: 263572

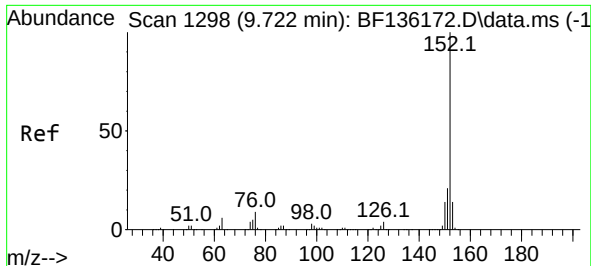
Ion Ratio Lower Upper

154 100

153 40.5 21.1 61.1

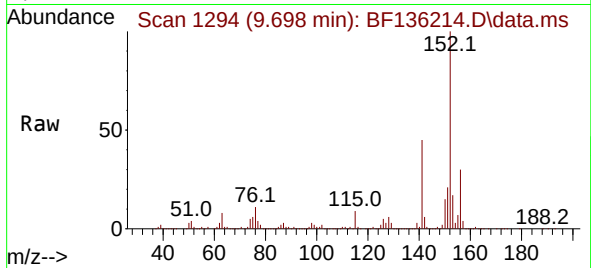
76 9.3 0.0 31.2





#49
Acenaphthylene
Concen: 18.637 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

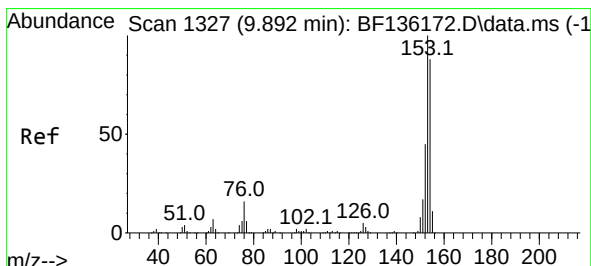
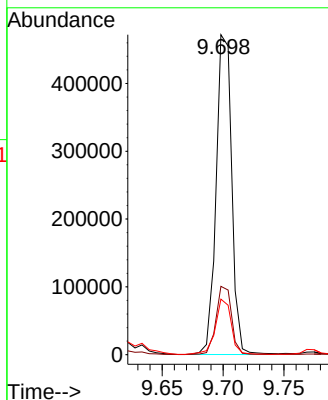
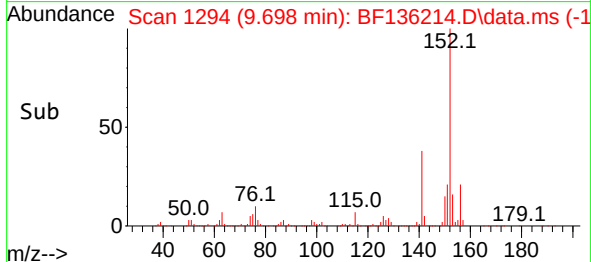
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



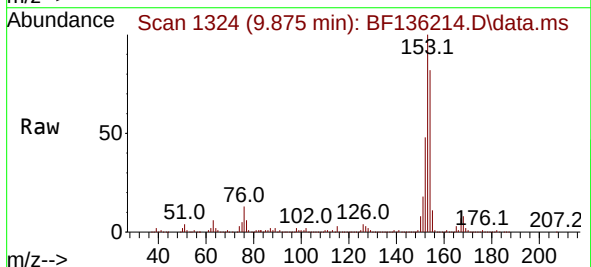
Tgt Ion:152 Resp: 421639
Ion Ratio Lower Upper
152 100
151 21.4 16.4 24.6
153 17.4 11.1 16.7

Manual Integrations
APPROVED

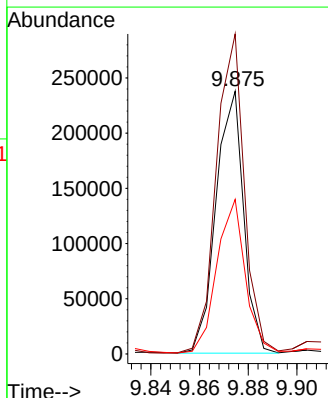
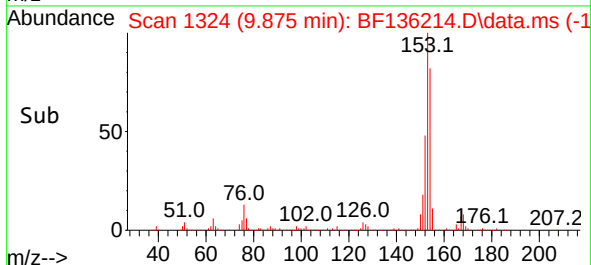
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

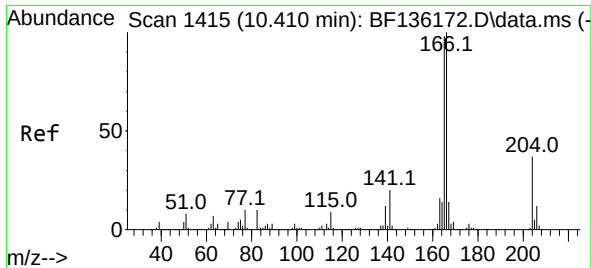


#52
Acenaphthene
Concen: 12.380 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21



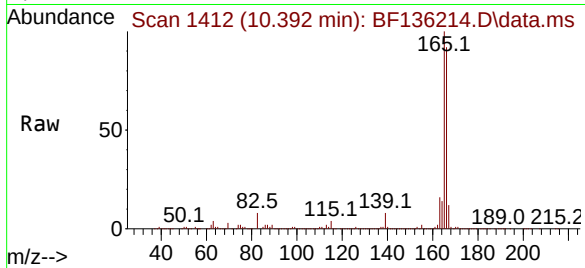
Tgt Ion:154 Resp: 186548
Ion Ratio Lower Upper
154 100
153 121.8 90.4 135.6
152 58.8 41.1 61.7





#58
Fluorene
Concen: 37.037 ng
RT: 10.392 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

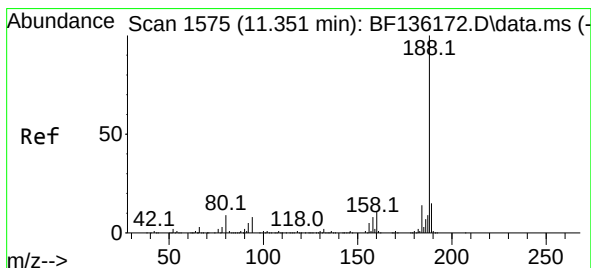
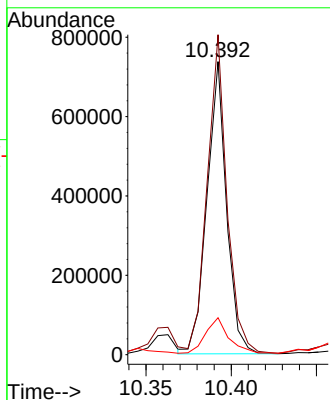
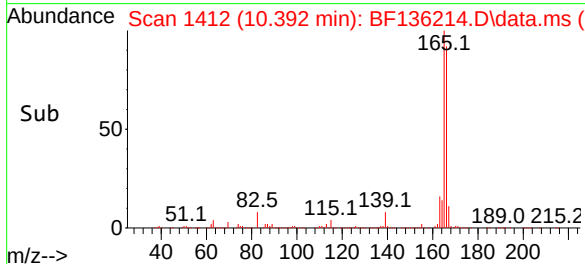
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



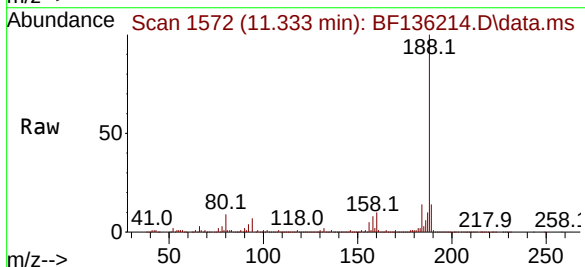
Tgt Ion:166 Resp: 588900
Ion Ratio Lower Upper
166 100
165 109.2 78.8 118.2
167 12.6 10.9 16.3

Manual Integrations
APPROVED

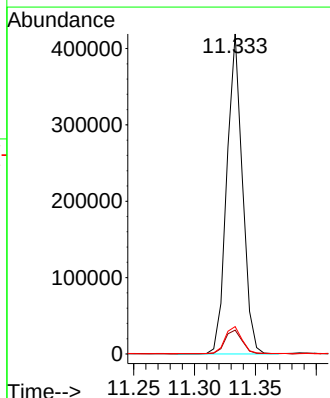
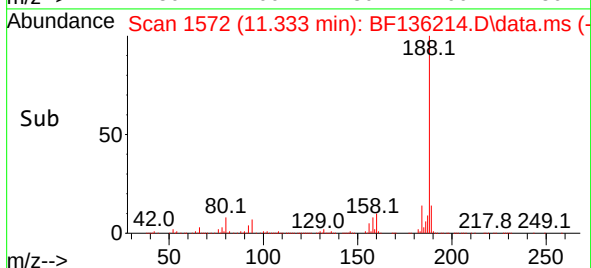
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

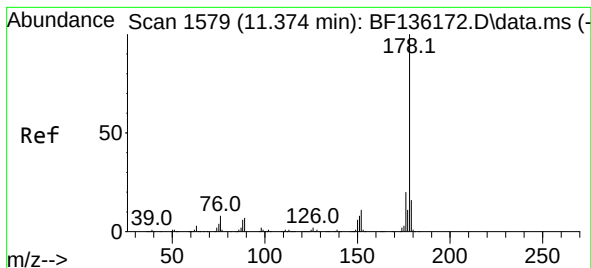


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21



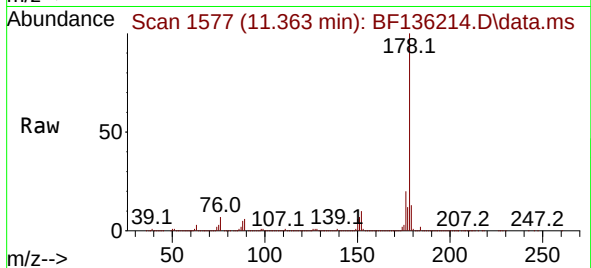
Tgt Ion:188 Resp: 374003
Ion Ratio Lower Upper
188 100
94 7.4 6.6 9.8
80 8.5 7.3 10.9





#71
Phenanthrene
Concen: 132.460 ng
RT: 11.363 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

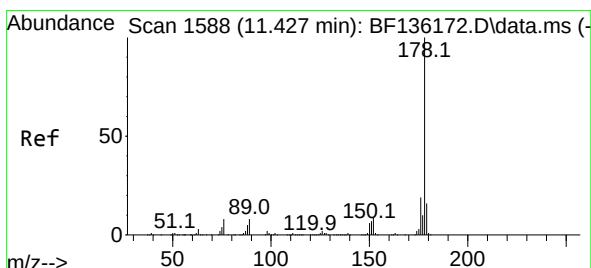
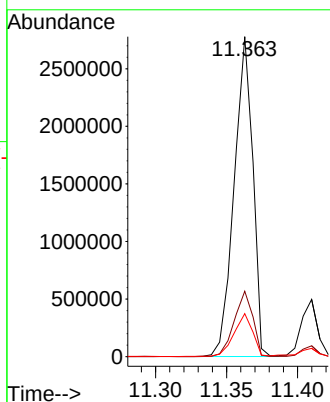
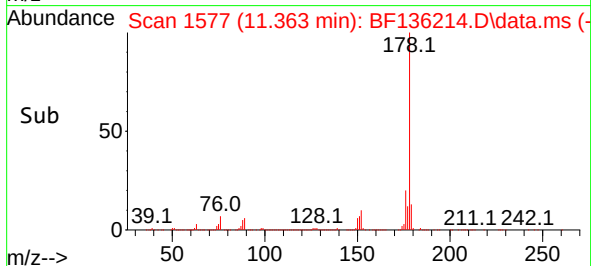
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:178 Resp: 253688
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 13.4 12.7 19.1

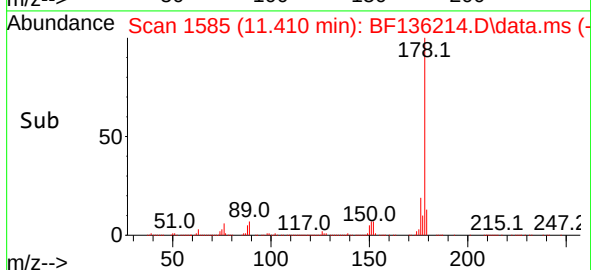
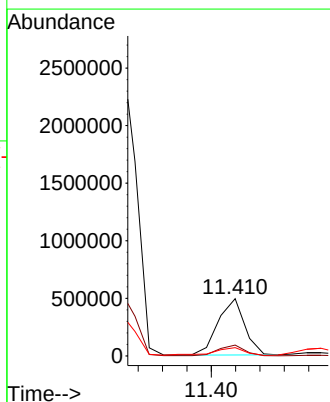
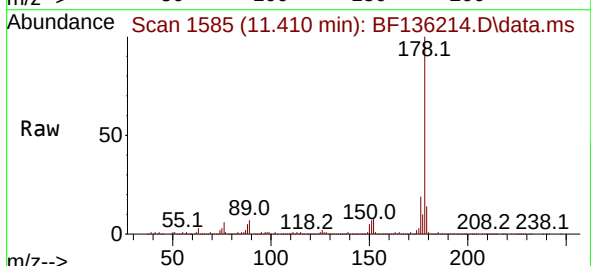
Manual Integrations
APPROVED

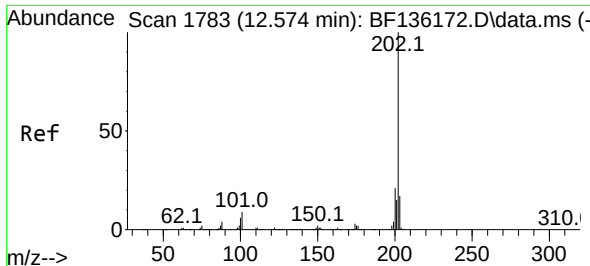
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#72
Anthracene
Concen: 19.135 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

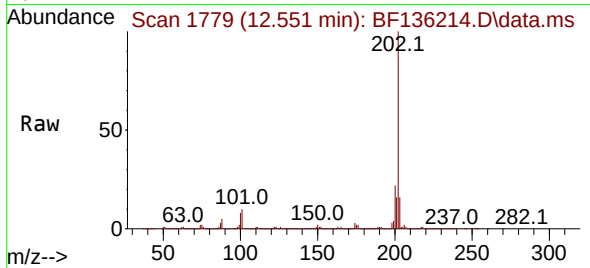
Tgt Ion:178 Resp: 374082
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.4
179 14.5 12.6 18.8





#75
Fluoranthene
Concen: 60.454 ng
RT: 12.551 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

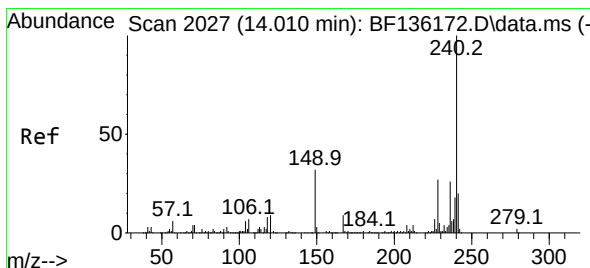
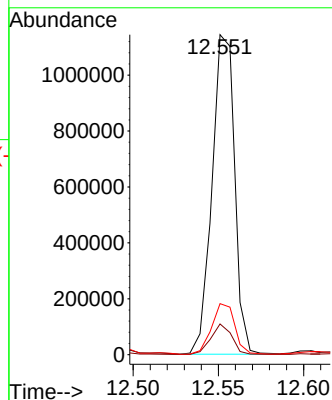
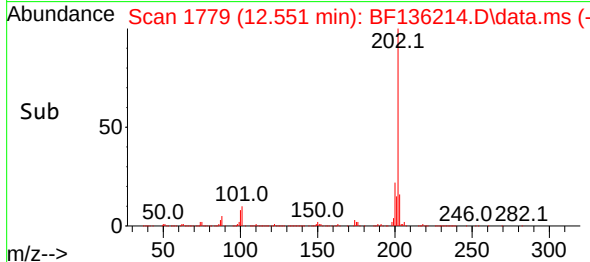
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:202 Resp: 105733
Ion Ratio Lower Upper
202 100
101 9.6 0.0 28.6
203 16.0 0.0 37.2

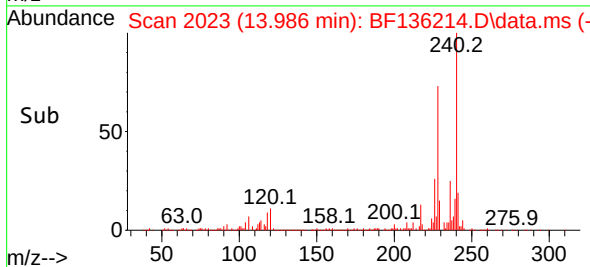
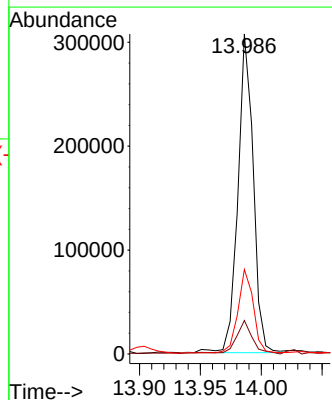
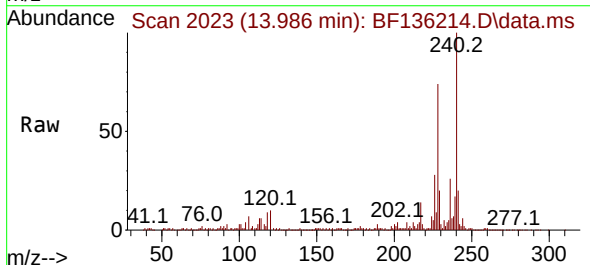
Manual Integrations
APPROVED

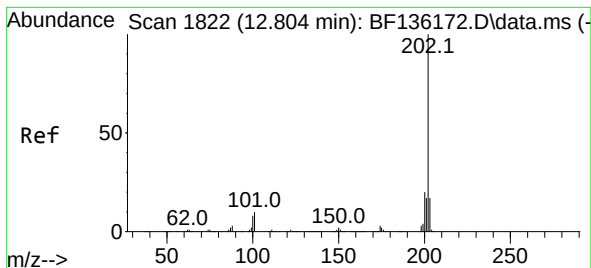
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

Tgt Ion:240 Resp: 268756
Ion Ratio Lower Upper
240 100
120 10.5 7.1 10.7
236 26.4 20.9 31.3





#78

Pyrene

Concen: 72.238 ng

RT: 12.786 min Scan# 1819

Delta R.T. -0.000 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL

Tgt Ion:202 Resp: 181547

Ion Ratio Lower Upper

202 100

200 22.4 16.2 24.2

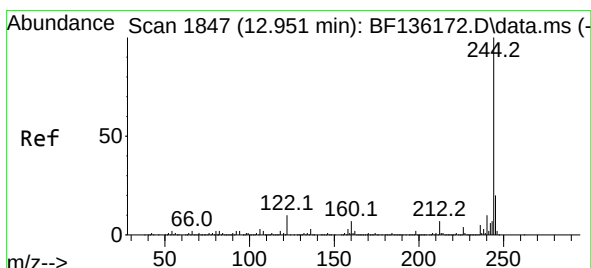
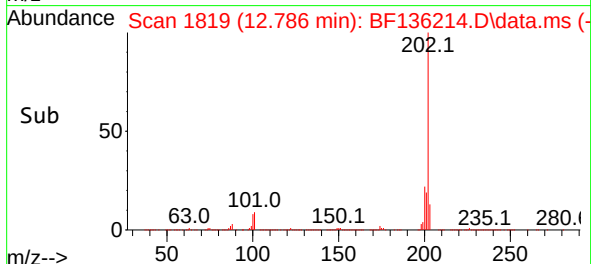
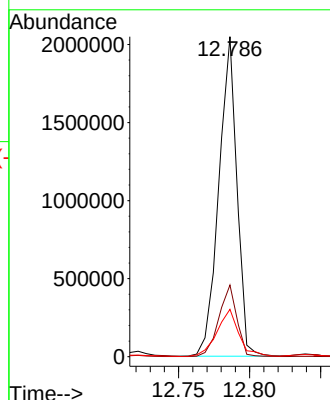
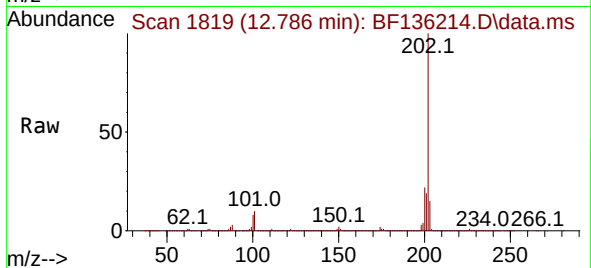
203 14.8 13.6 20.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2023

Supervised By :mohammad ahmed 11/27/2023



#79

Terphenyl-d14

Concen: 5.943 ng

RT: 12.927 min Scan# 1843

Delta R.T. -0.006 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

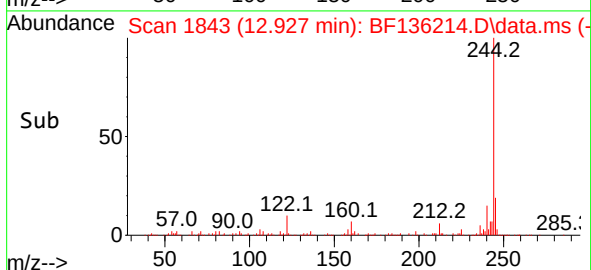
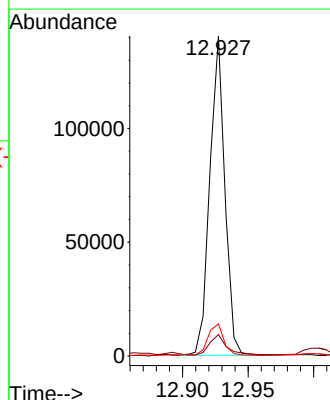
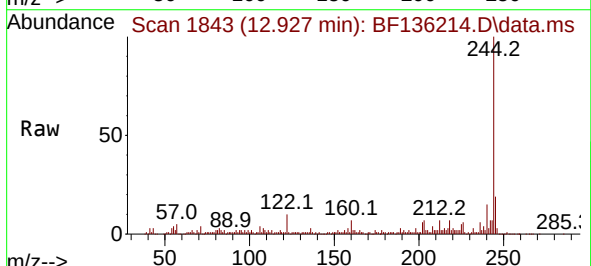
Tgt Ion:244 Resp: 112522

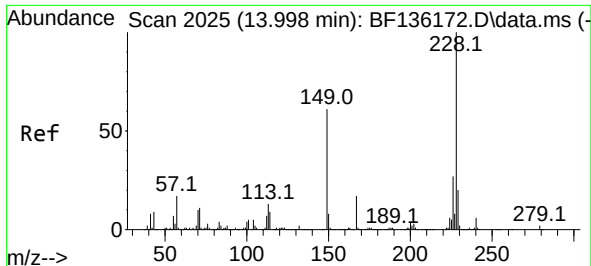
Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

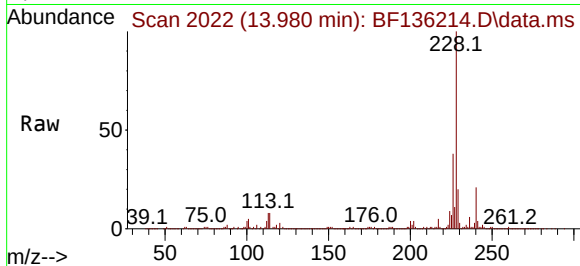
122 10.0 8.1 12.1





#81
Benzo(a)anthracene
Concen: 39.043 ng m
RT: 13.980 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

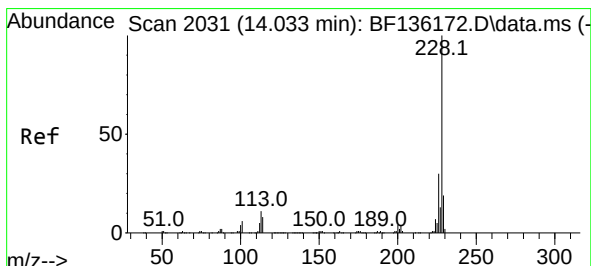
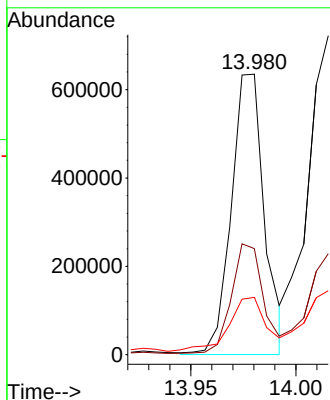
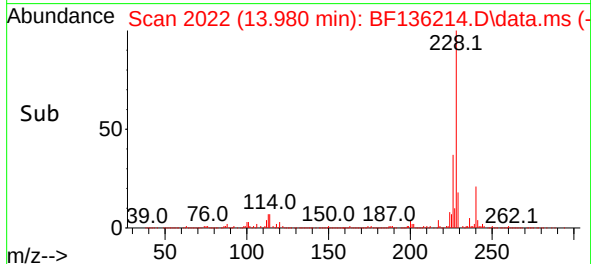
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:228 Resp: 695990
Ion Ratio Lower Upper
228 100
226 37.8 21.3 31.9
229 20.4 15.9 23.9

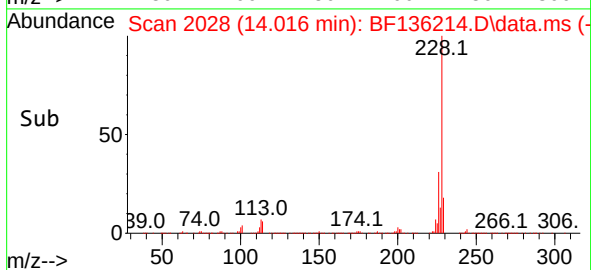
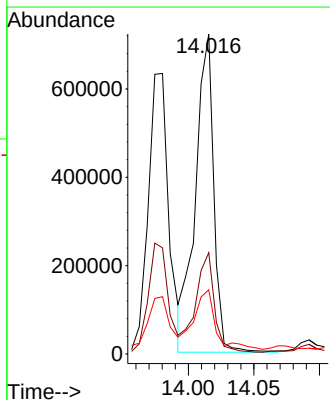
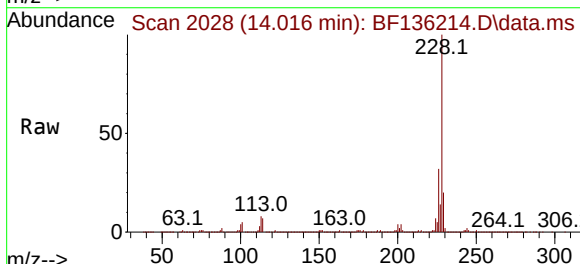
Manual Integrations
APPROVED

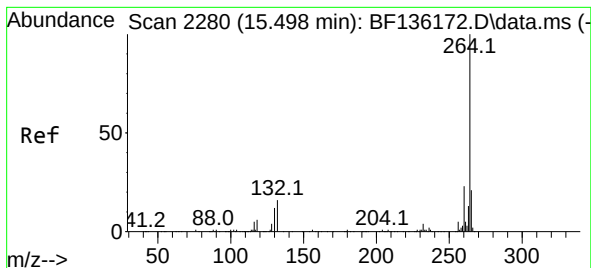
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#83
Chrysene
Concen: 40.373 ng
RT: 14.016 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

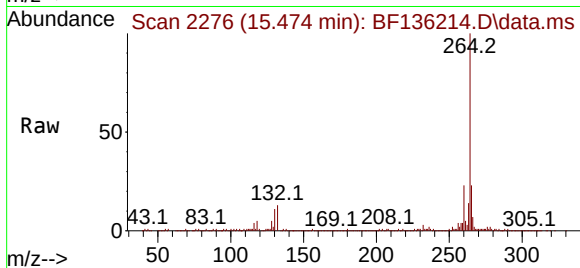
Tgt Ion:228 Resp: 704107
Ion Ratio Lower Upper
228 100
226 31.7 23.8 35.6
229 20.0 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.474 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

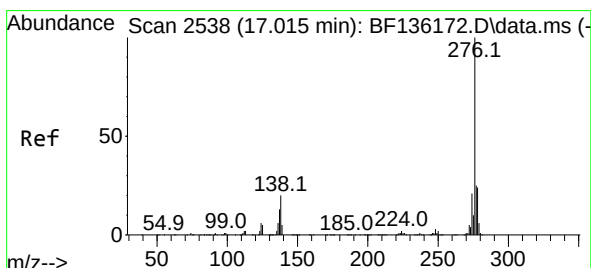
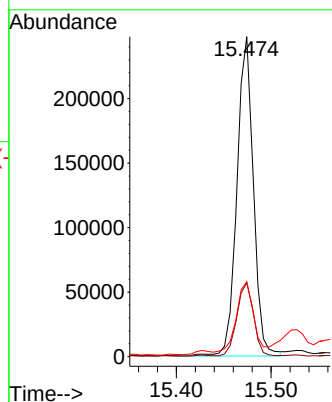
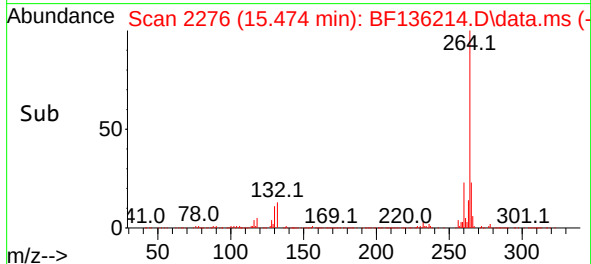
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



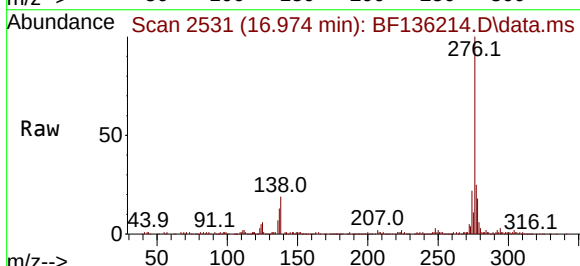
Tgt Ion:264 Resp: 29886
Ion Ratio Lower Upper
264 100
260 23.1 18.5 27.7
265 23.4 16.9 25.3

Manual Integrations
APPROVED

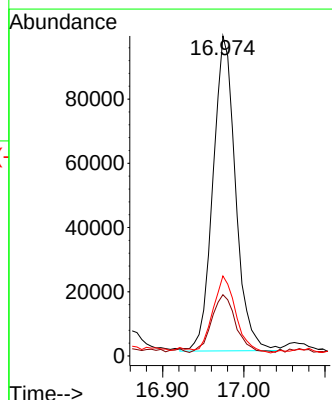
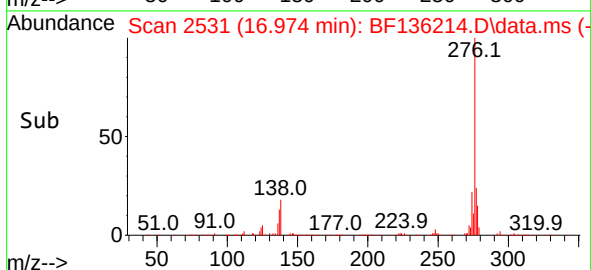
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023

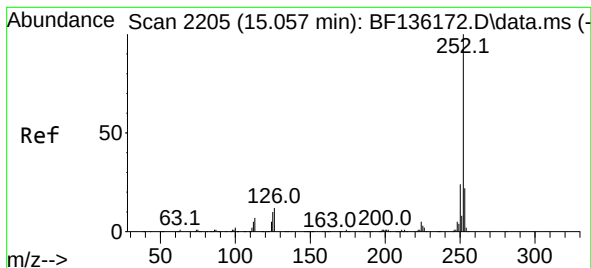


#87
Indeno(1,2,3-cd)pyrene
Concen: 8.684 ng
RT: 16.974 min Scan# 2531
Delta R.T. -0.006 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21



Tgt Ion:276 Resp: 190148
Ion Ratio Lower Upper
276 100
138 19.5 17.7 26.5
277 24.7 20.6 31.0





#88

Benzo(b)fluoranthene

Concen: 34.033 ng m

RT: 15.039 min Scan# 2205

Delta R.T. 0.006 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

Instrument :

BNA_F

ClientSampleId :

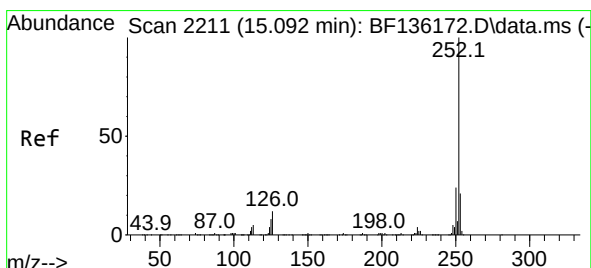
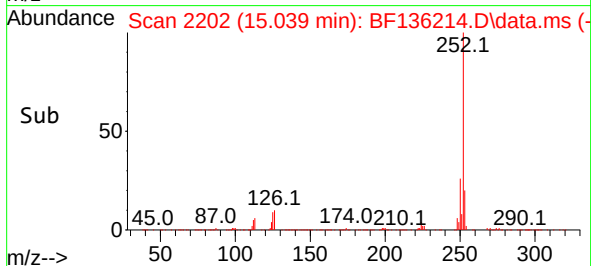
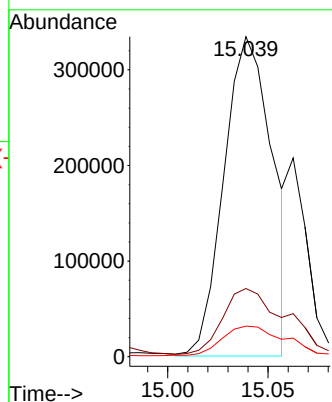
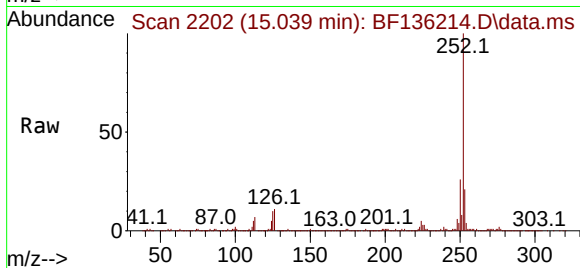
L-3(120FT)(0-5)DL

Tgt Ion:252 Resp: 56155
 Ion Ratio Lower Upper
 252 100
 253 21.3 17.6 26.4
 125 9.6 7.8 11.8

Manual Integrations

APPROVED

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



#89

Benzo(k)fluoranthene

Concen: 9.033 ng m

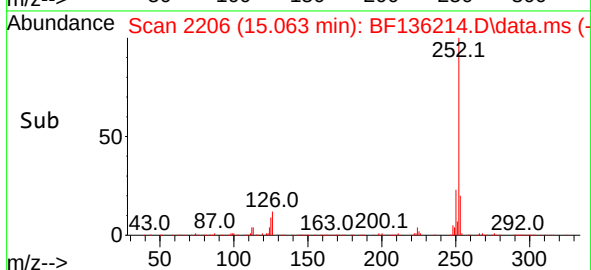
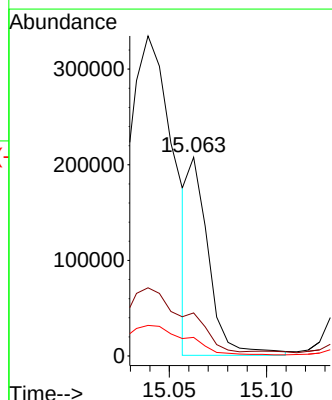
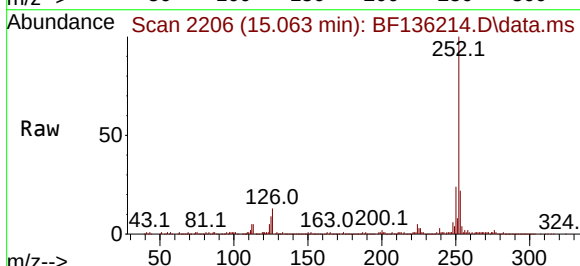
RT: 15.063 min Scan# 2206

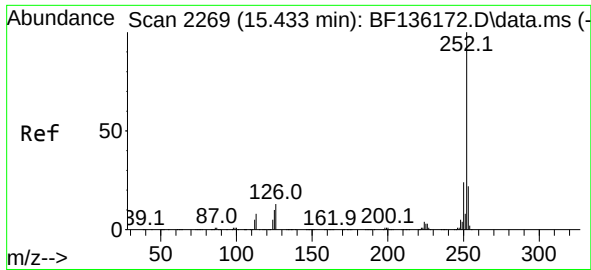
Delta R.T. -0.000 min

Lab File: BF136214.D

Acq: 25 Nov 2023 10:21

Tgt Ion:252 Resp: 150083
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.3 25.9
 125 9.4 6.7 10.1





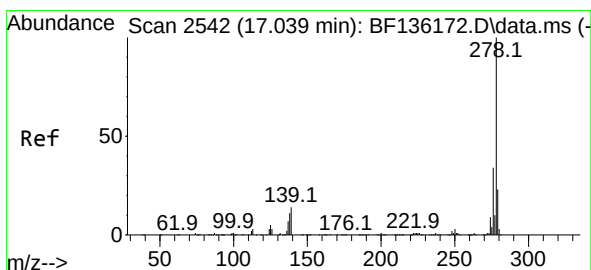
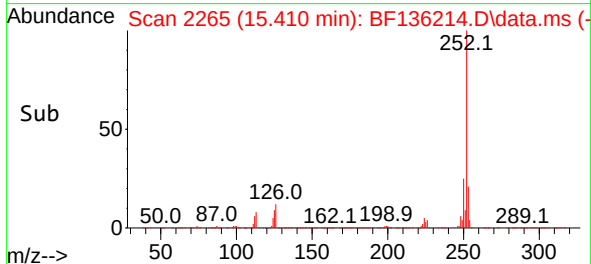
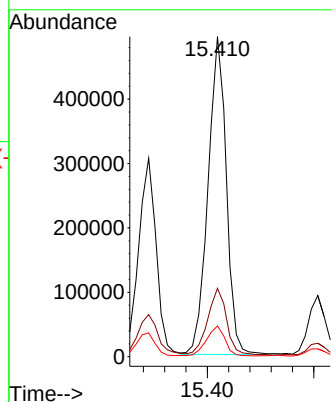
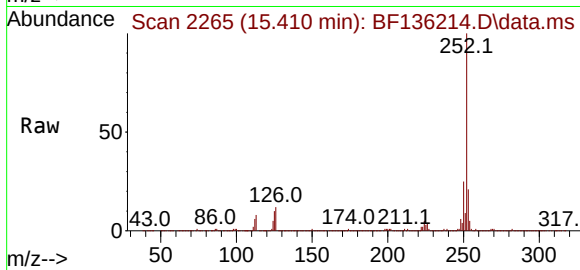
#90
Benzo(a)pyrene
Concen: 36.363 ng
RT: 15.410 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL

Tgt Ion:252 Resp: 591800
Ion Ratio Lower Upper
252 100
253 21.3 17.3 25.9
125 9.6 7.7 11.5

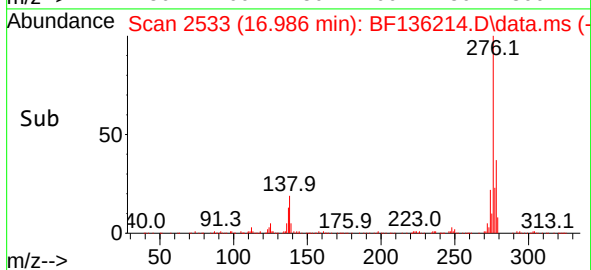
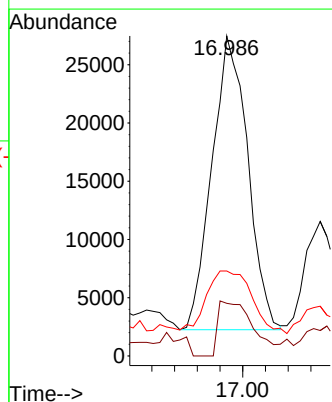
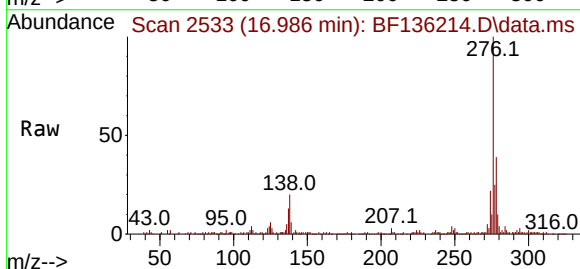
Manual Integrations
APPROVED

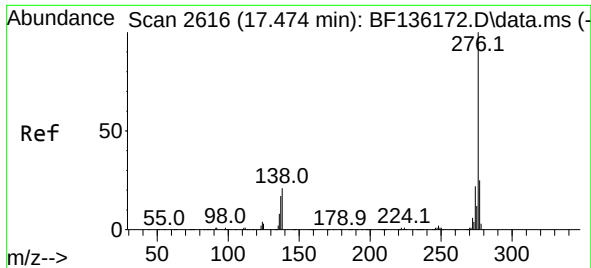
Reviewed By :Yogesh Patel 11/27/2023
Supervised By :mohammad ahmed 11/27/2023



#91
Dibenzo(a,h)anthracene
Concen: 3.046 ng
RT: 16.986 min Scan# 2533
Delta R.T. -0.018 min
Lab File: BF136214.D
Acq: 25 Nov 2023 10:21

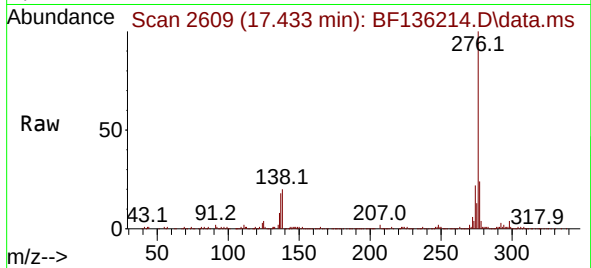
Tgt Ion:278 Resp: 55270
Ion Ratio Lower Upper
278 100
139 16.5 11.2 16.8
279 26.6 18.6 27.8





#92
 Benzo(g,h,i)perylene
 Concen: 11.266 ng
 RT: 17.433 min Scan# 20728
 Delta R.T. -0.006 min
 Lab File: BF136214.D
 Acq: 25 Nov 2023 10:21

Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL



Tgt Ion:	276	Resp:	20728
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.8	29.6
138	19.5	16.4	24.6

Manual Integrations
 APPROVED

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

