***Ideal value of PSNR should be infinity so higher the PSNR better will be the technique.***

**Results for pepper image (size 512 \* 512)**

1. Using IQR + Log2.

1.1 Green plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.186767578

MSE GREEN: 0.007431030

MSE BLUE: 0.013538361

PSNR(RED): 55.4517844 dB

PSNR(GREEN) : 69.4543090 dB

PSNR (BLUE) : 66.8491385 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.042800903

MSE GREEN: 0.001476288

MSE BLUE: 0.003517151

PSNR(RED): 61.8502700 dB

PSNR(GREEN) : 76.4730889 dB

PSNR (BLUE) : 72.7028893 dB

1.2 Blue plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.186767578

MSE GREEN: 0.012996674

MSE BLUE: 0.008914948

PSNR(RED): 55.4517844 dB

PSNR(GREEN) : 67.0264772 dB

PSNR (BLUE) : 68.6636114 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.042800903

MSE GREEN: 0.002754211

MSE BLUE: 0.002490997

PSNR(RED): 61.8502700 dB

PSNR(GREEN) : 73.7648266 dB

PSNR (BLUE) : 74.2010667 dB

1.3 Red plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.007663727

MSE GREEN: 0.155639648

MSE BLUE: 0.001552582

PSNR(RED): 69.3203992 dB

PSNR(GREEN) : 56.2435969 dB

PSNR (BLUE) : 76.2542544 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.000751495

MSE GREEN: 0.012645721

MSE BLUE: 0.000537872

PSNR(RED): 79.4055363 dB

PSNR(GREEN) : 67.1453632 dB

PSNR (BLUE) : 80.8580074 dB

2. Using Log2 Only

2.1 Blue plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.557384491

MSE GREEN: 0.024326324

MSE BLUE: 0.001102448

PSNR(RED): 50.7032505 dB

PSNR(GREEN) : 64.3040344 dB

PSNR (BLUE) : 77.7412201 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.125484467

MSE GREEN: 0.009254456

MSE BLUE: 0.000267029

PSNR(RED): 57.1788996 dB

PSNR(GREEN) : 68.5012906 dB

PSNR (BLUE) : 83.8992181 dB

2.2 Green plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.557384491

MSE GREEN: 0.001045227

MSE BLUE: 0.024715424

PSNR(RED): 50.7032505 dB

PSNR(GREEN) : 77.9726929 dB

PSNR (BLUE) : 64.2351187 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.125484467

MSE GREEN: 0.000244141

MSE BLUE: 0.009838104

PSNR(RED): 57.1788996 dB

PSNR(GREEN) : 84.2883988 dB

PSNR (BLUE) : 68.2356851 dB

2.3 Red plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.001319885

MSE GREEN: 0.503845215

MSE BLUE: 0.000000000

PSNR(RED): 76.9594375 dB

PSNR(GREEN) : 51.1418279 dB

PSNR (BLUE) : Inf dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.000400543

MSE GREEN: 0.159076691

MSE BLUE: 0.000000000

PSNR(RED): 82.1383055 dB

PSNR(GREEN) : 56.1487338 dB

PSNR (BLUE) : Inf dB

3. using log10

3.1 Green plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.557384491

MSE GREEN: 0.000923157

MSE BLUE: 0.000652313

PSNR(RED): 50.7032505 dB

PSNR(GREEN) : 78.5120449 dB

PSNR (BLUE) : 80.0202374 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.125484467

MSE GREEN: 0.000000000

MSE BLUE: 0.000385284

PSNR(RED): 57.1788996 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 82.3069848 dB

3.2 Blue plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.557384491

MSE GREEN: 0.000289917

MSE BLUE: 0.001144409

PSNR(RED): 50.7032505 dB

PSNR(GREEN) : 83.5420626 dB

PSNR (BLUE) : 77.5789860 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.125484467

MSE GREEN: 0.000000000

MSE BLUE: 0.000251770

PSNR(RED): 57.1788996 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 84.1547592 dB

3.3 Red plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.001392365

MSE GREEN: 0.438491821

MSE BLUE: 0.005844116

PSNR(RED): 76.7272699 dB

PSNR(GREEN) : 51.7451843 dB

PSNR (BLUE) : 70.4976109 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.000373840

MSE GREEN: 0.007793427

MSE BLUE: 0.000205994

PSNR(RED): 82.4379378 dB

PSNR(GREEN) : 69.2475149 dB

PSNR (BLUE) : 85.0262609 dB

4.Using IQR only

4.1 Blue plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.208168030

MSE GREEN: 0.000000000

MSE BLUE: 0.007041931

PSNR(RED): 54.9806590 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 69.6878816 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.043773651

MSE GREEN: 0.000000000

MSE BLUE: 0.001739502

PSNR(RED): 61.7526716 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 75.7605501 dB

4.2 Green plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.240268707

MSE GREEN: 0.000000000

MSE BLUE: 0.000003815

PSNR(RED): 54.3578272 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 102.3501985 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.065174103

MSE GREEN: 0.000000000

MSE BLUE: 0.000003815

PSNR(RED): 60.0240487 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 102.3501985 dB

4.3 Red plane for embedding:

Message : 12345678912345678912345678912345678912345678912345678912345678123456789123456789123456789123456789123456789123456789123456789123456789123456789

Message length in bits :1144

MSE RED: 0.004341125

MSE GREEN: 0.110893250

MSE BLUE: 0.000003815

PSNR(RED): 71.7887759 dB

PSNR(GREEN) : 57.7157482 dB

PSNR (BLUE) : 102.3501985 dB

Message : 12345678912345678912345678912345

Message length in bits :256

MSE RED: 0.000835419

MSE GREEN: 0.000000000

MSE BLUE: 0.000003815

PSNR(RED): 78.9457574 dB

PSNR(GREEN) : Inf dB

PSNR (BLUE) : 102.3501985 dB