



SAMSUNG Electronics CO., Ltd.
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July 4, 2019

Application Examiner / Reviewing Engineer
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

To Whom It May Concern,

We, Samsung Electronics Co., Ltd, declare that we calculate the antenna gain using below formula to get modify raw data of antenna measured at 'Electromagnetic wave Technology Institute (EMTI) of Korea Radio Promotion Association (RAPA)'.

Frequency (GHz)	Calibration Value (dB)	Modified antenna gain (dBi)
27.0	9.1	27.75
27.1	8.79	27.78
27.2	8.49	27.85
27.3	8.5	27.9
27.4	8.82	28.07
27.5	9.09	28.12
27.6	9.232	28.142
27.7	9.405	28.155
27.8	9.403	28.163
27.9	9.341	28.181
28.0	9.22	28.21
28.1	8.817	28.227
28.2	8.675	28.315
28.3	8.431	28.321
28.35	8.078	28.328
28.4	8.732	28.342
28.5	8.747	28.387
28.6	9.272	28.422
28.7	9.48	28.48
28.8	9.742	28.512
28.85	9.183	28.533
56	9.355	2.755
84	14.593	9.793
100	22.728	6.598

※Calibration value compensate power divide of antenna, cable loss and connector loss.

The modified antenna gain is summed raw data and calibration value.

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If you have questions or need further information, please contact the undersigned.

Sincerely,



HWAN-YOUL KIM / Principal Research Engineer

SAMSUNG Electronics Co.,Ltd.