

MPE ESTIMATION

FCC ID: 2BC32ESK-180-4G

1. Limit for General Population/Uncontrolled Exposures

Frequency	Power Density(mW/cm ²)	Averaging Time(minutes)
300MHz-1.5GHz	F/1500	30
1.5GHz-100GHz	1.0	30

Note: F= Frequency in MHz

2. Estimation Result

WCDMA/LTE: Worst case

Mode	Frequency (MHz)	Output Power (Turn-up Procedure)		Antenna Gain (Numeric)	Power Density At 20 cm (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Results
		dBm	mW				
WCDMA Band II	1852.4	27.57	571.479	1.8493	0.210358	1.000	PASS
WCDMA Band IV	1712.4	27.61	576.766	1.8493	0.212304	1.000	PASS
WCDMA Band V	826.4	27.65	582.103	1.9953	0.231184	0.551	PASS
LTE Band 2	1880.0	26.97	497.737	1.8493	0.183214	1.000	PASS
LTE Band 4	1732.5	26.03	400.867	1.8493	0.147556	1.000	PASS
LTE Band 5	836.5	25.27	336.512	1.9953	0.133647	0.558	PASS
LTE Band 12	707.5	25.69	370.681	1.1912	0.087889	0.472	PASS
LTE Band 13	779.5	25.69	370.681	1.9953	0.147217	0.520	PASS
LTE Band 17	710.0	25.13	325.837	1.9953	0.129407	0.471	PASS
LTE Band 66	1745.0	26.09	406.443	1.8493	0.149609	1.000	PASS
LTE Band 71	680.5	24.58	287.078	1.1912	0.068067	0.454	PASS

Note: The estimation distance is 20cm.

Antenna Gain:

WCDMA: Band II: 2.67dBi; Band IV:2.67dBi; Band V: 3dBi

LTE: Band 2: 2.67dBi; Band 4: 2.67dBi; Band 5: 3dBi; Band 12: 0.76dBi; Band 13: 3dBi; Band 17: 3dBi; Band 66: 2.67dBi; Band 71: 0.76dBi

$\pi=3.14$

$$Pd = \frac{P_{out} * G}{4\pi r^2}$$

Note: Output power=conducted power.

Conducted power see the test report 23102007ER-61, 23102007ER-62.

-----The End-----