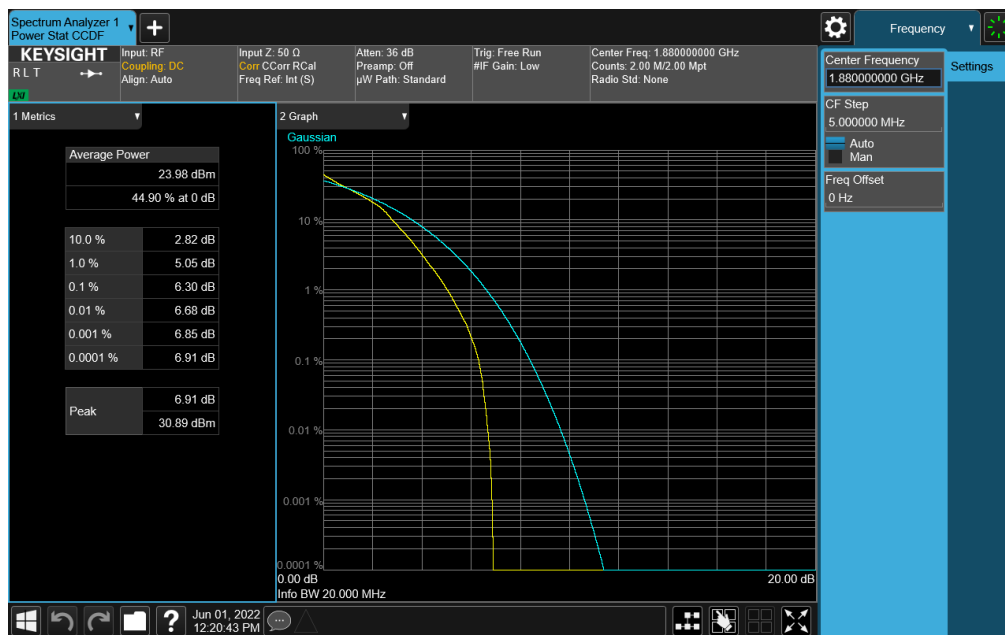



Plot 7-283. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM QPSK - Full RB)

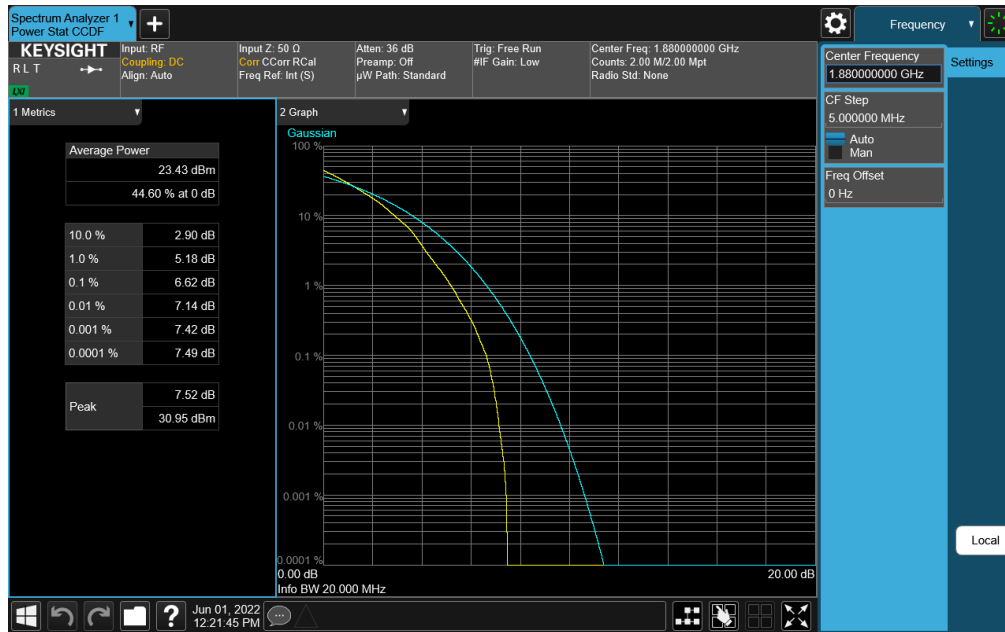


Plot 7-284. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 16-QAM - Full RB)

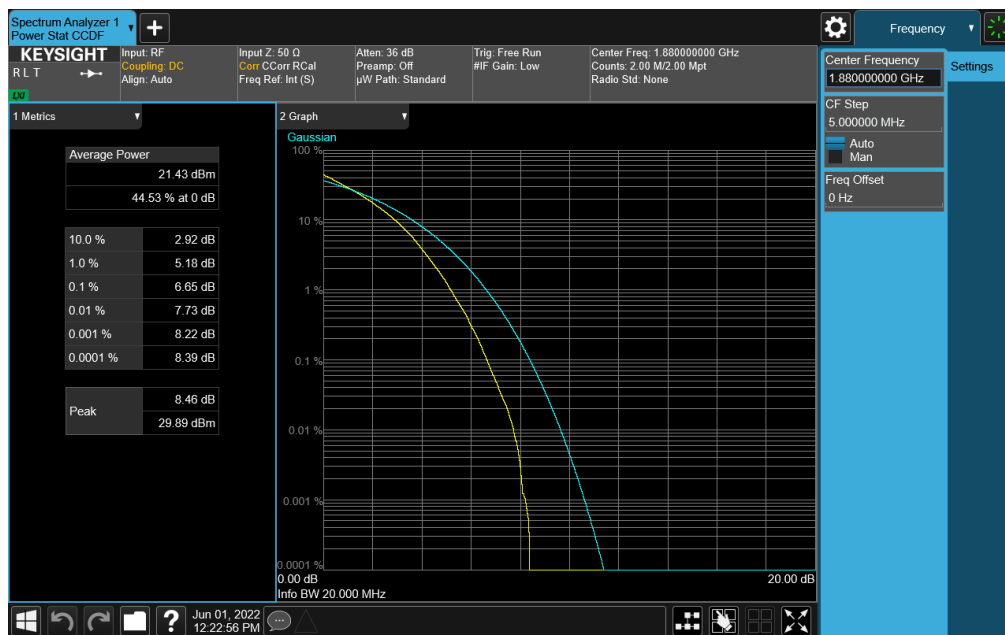
FCC ID: BCGA2757		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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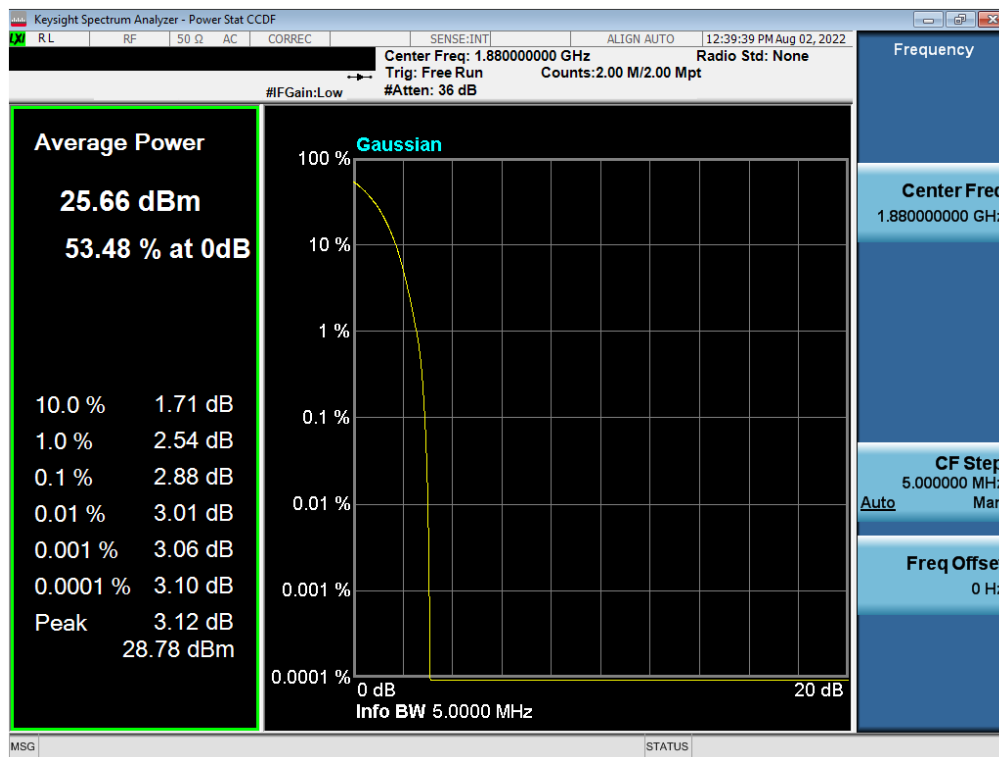
Plot 7-285. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 64-QAM - Full RB)




Plot 7-286. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 256-QAM - Full RB)

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Plot 7-287. PAR Plot (WCDMA, Ch. 9400)

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7.6 Radiated Power (EIRP)

§24.232(c)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

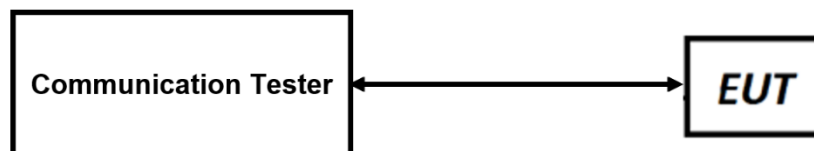




Figure 7-5. EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.
5. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1"

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7.6.1 Antenna 4 – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	1.70	1 / 3	25.70	27.40	0.550	33.01	-5.61
		1882.5	1.70	1 / 3	25.63	27.33	0.541	33.01	-5.68
		1914.3	1.70	1 / 0	25.46	27.16	0.520	33.01	-5.85
	16-QAM	1882.5	1.70	1 / 3	25.28	26.98	0.499	33.01	-6.03
	64-QAM	1882.5	1.70	1 / 5	23.51	25.21	0.332	33.01	-7.80
	256-QAM	1882.5	1.70	1 / 5	20.79	22.49	0.177	33.01	-10.52
3 MHz	QPSK	1851.5	1.70	1 / 14	25.65	27.35	0.543	33.01	-5.66
		1882.5	1.70	1 / 14	25.70	27.40	0.550	33.01	-5.61
		1913.5	1.70	1 / 0	25.59	27.29	0.536	33.01	-5.72
	16-QAM	1851.5	1.70	1 / 14	25.09	26.79	0.478	33.01	-6.22
	64-QAM	1882.5	1.70	1 / 14	24.01	25.71	0.372	33.01	-7.30
	256-QAM	1913.5	1.70	1 / 14	21.32	23.02	0.200	33.01	-9.99
5 MHz	QPSK	1852.5	1.70	1 / 24	25.70	27.40	0.550	33.01	-5.61
		1882.5	1.70	1 / 24	25.62	27.32	0.540	33.01	-5.69
		1912.5	1.70	1 / 12	25.47	27.17	0.521	33.01	-5.84
	16-QAM	1852.5	1.70	1 / 24	25.28	26.98	0.499	33.01	-6.03
	64-QAM	1882.5	1.70	1 / 12	24.05	25.75	0.376	33.01	-7.26
	256-QAM	1852.5	1.70	1 / 12	20.89	22.59	0.182	33.01	-10.42
10 MHz	QPSK	1855.0	1.70	1 / 25	25.63	27.33	0.541	33.01	-5.68
		1882.5	1.70	1 / 25	25.68	27.38	0.547	33.01	-5.63
		1910.0	1.70	1 / 0	25.70	27.40	0.550	33.01	-5.61
	16-QAM	1855.0	1.70	1 / 25	25.17	26.87	0.486	33.01	-6.14
	64-QAM	1910.0	1.70	1 / 25	24.03	25.73	0.374	33.01	-7.28
	256-QAM	1910.0	1.70	1 / 25	21.40	23.10	0.204	33.01	-9.91
15 MHz	QPSK	1857.5	1.70	1 / 37	25.59	27.29	0.536	33.01	-5.72
		1882.5	1.70	1 / 37	25.70	27.40	0.550	33.01	-5.61
		1907.5	1.70	1 / 37	25.56	27.26	0.532	33.01	-5.75
	16-QAM	1857.5	1.70	1 / 37	25.09	26.79	0.478	33.01	-6.22
	64-QAM	1882.5	1.70	1 / 37	24.41	26.11	0.408	33.01	-6.90
	256-QAM	1907.5	1.70	1 / 37	21.17	22.87	0.194	33.01	-10.14
20 MHz	QPSK	1860.0	1.70	1 / 50	25.37	27.07	0.509	33.01	-5.94
		1882.5	1.70	1 / 50	25.69	27.39	0.548	33.01	-5.62
		1905.0	1.70	1 / 50	25.70	27.40	0.550	33.01	-5.61
	16-QAM	1905.0	1.70	1 / 50	25.31	27.01	0.502	33.01	-6.00
	64-QAM	1860.0	1.70	1 / 50	24.43	26.13	0.410	33.01	-6.88
	256-QAM	1905.0	1.70	1 / 50	20.87	22.57	0.181	33.01	-10.44

Table 7-2. Antenna 4 EIRP Data (LTE Band 25)

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LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	1.70	1 / 0	25.43	27.13	0.516	33.01	-5.88
		1880.0	1.70	1 / 5	25.70	27.40	0.550	33.01	-5.61
		1909.3	1.70	1 / 3	25.44	27.14	0.518	33.01	-5.87
	16-QAM	1880.0	1.70	1 / 3	24.81	26.51	0.448	33.01	-6.50
	64-QAM	1880.0	1.70	1 / 3	24.19	25.89	0.388	33.01	-7.12
	256-QAM	1850.7	1.70	1 / 5	21.23	22.93	0.196	33.01	-10.08
3 MHz	QPSK	1851.5	1.70	1 / 0	25.57	27.27	0.533	33.01	-5.74
		1880.0	1.70	1 / 14	25.70	27.40	0.550	33.01	-5.61
		1908.5	1.70	1 / 14	25.67	27.37	0.546	33.01	-5.64
	16-QAM	1908.5	1.70	1 / 7	25.09	26.79	0.478	33.01	-6.22
	64-QAM	1908.5	1.70	1 / 7	24.38	26.08	0.406	33.01	-6.93
	256-QAM	1880.0	1.70	1 / 0	21.32	23.02	0.200	33.01	-9.99
5 MHz	QPSK	1852.5	1.70	1 / 24	25.58	27.28	0.535	33.01	-5.73
		1880.0	1.70	1 / 24	25.70	27.40	0.550	33.01	-5.61
		1907.5	1.70	1 / 12	25.53	27.23	0.528	33.01	-5.78
	16-QAM	1880.0	1.70	1 / 12	25.11	26.81	0.480	33.01	-6.20
	64-QAM	1880.0	1.70	1 / 12	23.97	25.67	0.369	33.01	-7.34
	256-QAM	1852.5	1.70	1 / 24	21.15	22.85	0.193	33.01	-10.16
10 MHz	QPSK	1855.0	1.70	1 / 49	25.69	27.39	0.548	33.01	-5.62
		1880.0	1.70	1 / 49	25.70	27.40	0.550	33.01	-5.61
		1905.0	1.70	1 / 25	25.67	27.37	0.546	33.01	-5.64
	16-QAM	1905.0	1.70	1 / 0	25.08	26.78	0.476	33.01	-6.23
	64-QAM	1905.0	1.70	1 / 25	24.33	26.03	0.401	33.01	-6.98
	256-QAM	1905.0	1.70	1 / 49	21.30	23.00	0.200	33.01	-10.01
15 MHz	QPSK	1857.5	1.70	1 / 37	25.70	27.40	0.550	33.01	-5.61
		1880.0	1.70	1 / 37	25.59	27.29	0.536	33.01	-5.72
		1902.5	1.70	1 / 37	25.51	27.21	0.526	33.01	-5.80
	16-QAM	1902.5	1.70	1 / 37	24.92	26.62	0.459	33.01	-6.39
	64-QAM	1902.5	1.70	1 / 37	24.26	25.96	0.394	33.01	-7.05
	256-QAM	1902.5	1.70	1 / 74	21.17	22.87	0.194	33.01	-10.14
20 MHz	QPSK	1860.0	1.70	1 / 50	25.70	27.40	0.550	33.01	-5.61
		1880.0	1.70	1 / 50	25.38	27.08	0.511	33.01	-5.93
		1900.0	1.70	1 / 50	25.68	27.38	0.547	33.01	-5.63
	16-QAM	1900.0	1.70	1 / 50	24.88	26.58	0.455	33.01	-6.43
	64-QAM	1880.0	1.70	1 / 99	24.29	25.99	0.397	33.01	-7.02
	256-QAM	1880.0	1.70	1 / 50	21.08	22.78	0.190	33.01	-10.23

Table 7-3. Antenna 4 EIRP Data (LTE Band 2)


FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	1.70	1 / 23	25.46	27.16	0.520	33.01	-5.85
		1882.5	1.70	1 / 23	25.55	27.25	0.531	33.01	-5.76
		1912.5	1.70	1 / 23	25.70	27.40	0.550	33.01	-5.61
	QPSK	1852.5	1.70	1 / 0	25.44	27.14	0.518	33.01	-5.87
		1882.5	1.70	1 / 12	25.57	27.27	0.534	33.01	-5.74
		1912.5	1.70	1 / 0	25.43	27.13	0.516	33.01	-5.88
	16-QAM	1882.5	1.70	1 / 12	24.74	26.44	0.440	33.01	-6.57
	64-QAM	1852.5	1.70	1 / 23	23.53	25.23	0.334	33.01	-7.78
10 MHz	$\pi/2$ BPSK	1882.5	1.70	1 / 12	21.06	22.76	0.189	33.01	-10.25
	QPSK	1855.0	1.70	1 / 48	25.70	27.40	0.550	33.01	-5.61
		1882.5	1.70	1 / 48	25.53	27.23	0.529	33.01	-5.78
		1910.0	1.70	1 / 0	25.70	27.40	0.549	33.01	-5.61
	QPSK	1855.0	1.70	1 / 25	25.36	27.06	0.508	33.01	-5.95
		1882.5	1.70	1 / 0	25.34	27.04	0.506	33.01	-5.97
		1910.0	1.70	1 / 48	25.49	27.19	0.524	33.01	-5.82
	16-QAM	1882.5	1.70	1 / 0	25.08	26.78	0.476	33.01	-6.23
15 MHz	$\pi/2$ BPSK	1882.5	1.70	1 / 25	23.39	25.09	0.323	33.01	-7.92
	QPSK	1882.5	1.70	1 / 25	21.26	22.96	0.198	33.01	-10.05
		1857.5	1.70	1 / 37	25.27	26.97	0.497	33.01	-6.04
	QPSK	1882.5	1.70	1 / 37	25.49	27.19	0.523	33.01	-5.82
		1907.5	1.70	1 / 0	25.34	27.04	0.505	33.01	-5.97
		1857.5	1.70	1 / 37	25.09	26.79	0.477	33.01	-6.22
	QPSK	1882.5	1.70	1 / 73	25.22	26.92	0.493	33.01	-6.09
		1907.5	1.70	1 / 0	25.70	27.40	0.550	33.01	-5.61
20 MHz	$\pi/2$ BPSK	1907.5	1.70	1 / 37	24.80	26.50	0.447	33.01	-6.51
	QPSK	1907.5	1.70	1 / 0	23.10	24.80	0.302	33.01	-8.21
		1882.5	1.70	1 / 73	20.85	22.55	0.180	33.01	-10.46
	QPSK	1860.0	1.70	1 / 50	25.39	27.09	0.512	33.01	-5.92
		1882.5	1.70	1 / 0	25.61	27.31	0.539	33.01	-5.70
		1905.0	1.70	1 / 50	25.52	27.22	0.528	33.01	-5.79
	QPSK	1860.0	1.70	1 / 50	25.38	27.08	0.511	33.01	-5.93
		1882.5	1.70	1 / 50	25.49	27.19	0.523	33.01	-5.82
25 MHz	$\pi/2$ BPSK	1905.0	1.70	1 / 50	25.70	27.40	0.550	33.01	-5.61
	QPSK	1862.5	1.70	1 / 0	25.22	26.92	0.492	33.01	-6.09
		1905.0	1.70	1 / 0	23.40	25.10	0.323	33.01	-7.91
	QPSK	1862.5	1.70	1 / 131	25.52	27.22	0.527	33.01	-5.79
		1882.5	1.70	1 / 131	25.45	27.15	0.519	33.01	-5.86
		1902.5	1.70	1 / 0	25.49	27.19	0.523	33.01	-5.82
	QPSK	1862.5	1.70	1 / 131	25.70	27.40	0.550	33.01	-5.61
		1882.5	1.70	1 / 0	25.37	27.07	0.509	33.01	-5.94
30 MHz	$\pi/2$ BPSK	1902.5	1.70	1 / 131	25.54	27.24	0.529	33.01	-5.77
	QPSK	1862.5	1.70	1 / 0	24.68	26.38	0.434	33.01	-6.63
		1902.5	1.70	1 / 0	23.10	24.80	0.302	33.01	-8.21
	QPSK	1862.5	1.70	1 / 214	25.48	27.18	0.522	33.01	-5.84
		1882.5	1.70	1 / 0	25.70	27.40	0.550	33.01	-5.61
		1900.0	1.70	1 / 214	25.34	27.04	0.506	33.01	-5.97
	QPSK	1865.0	1.70	1 / 214	25.51	27.21	0.526	33.01	-5.80
		1882.5	1.70	1 / 214	25.26	26.96	0.497	33.01	-6.05
40 MHz	$\pi/2$ BPSK	1900.0	1.70	1 / 214	25.28	26.98	0.499	33.01	-6.03
	QPSK	1865.0	1.70	1 / 214	24.58	26.28	0.425	33.01	-6.73
		1882.5	1.70	1 / 214	23.44	25.14	0.326	33.01	-7.87
	QPSK	1865.0	1.70	1 / 214	20.96	22.66	0.185	33.01	-10.35
		1870.0	1.70	1 / 214	25.68	27.38	0.547	33.01	-5.63
		1882.5	1.70	1 / 108	25.69	27.39	0.548	33.01	-5.62
	QPSK	1895.0	1.70	1 / 214	25.70	27.40	0.550	33.01	-5.61
		1870.0	1.70	1 / 108	25.17	26.87	0.486	33.01	-6.14
5 MHz	$\pi/2$ BPSK	1882.5	1.70	1 / 108	25.54	27.24	0.530	33.01	-5.77
	QPSK	1895.0	1.70	1 / 108	25.48	27.18	0.522	33.01	-5.83
		1870.0	1.70	1 / 0	24.70	26.40	0.437	33.01	-6.61
	QPSK	1882.5	1.70	1 / 108	23.18	24.88	0.308	33.01	-8.13
		1895.0	1.70	1 / 214	21.09	22.79	0.190	33.01	-10.22
	QPSK	1870.0	1.70	1 / 214	25.68	27.38	0.547	33.01	-5.63
		1882.5	1.70	1 / 108	25.69	27.39	0.548	33.01	-5.62
		1895.0	1.70	1 / 214	25.70	27.40	0.550	33.01	-5.61

Table 7-4. Antenna 4 EIRP Data (NR Band n25)

FCC ID: BCGA2757		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	1.70	1 / 23	25.22	26.92	0.492	33.01	-6.09
		1880.0	1.70	1 / 23	25.27	26.97	0.498	33.01	-6.04
		1907.5	1.70	1 / 0	25.49	27.19	0.523	33.01	-5.82
	QPSK	1852.5	1.70	1 / 12	25.45	27.15	0.519	33.01	-5.86
		1880.0	1.70	1 / 23	25.40	27.10	0.513	33.01	-5.91
		1907.5	1.70	1 / 23	25.70	27.40	0.550	33.01	-5.61
	16-QAM	1852.5	1.70	1 / 12	24.85	26.55	0.452	33.01	-6.46
	64-QAM	1852.5	1.70	1 / 23	23.16	24.86	0.306	33.01	-8.15
	256-QAM	1852.5	1.70	1 / 23	21.04	22.74	0.188	33.01	-10.27
10 MHz	$\pi/2$ BPSK	1855.0	1.70	1 / 0	25.18	26.88	0.488	33.01	-6.13
		1880.0	1.70	1 / 48	25.49	27.19	0.524	33.01	-5.82
		1905.0	1.70	1 / 48	25.55	27.25	0.531	33.01	-5.76
	QPSK	1855.0	1.70	1 / 48	25.33	27.03	0.504	33.01	-5.99
		1880.0	1.70	1 / 0	25.61	27.31	0.538	33.01	-5.70
		1905.0	1.70	1 / 0	25.70	27.40	0.550	33.01	-5.61
	16-QAM	1880.0	1.70	1 / 48	24.82	26.52	0.449	33.01	-6.49
	64-QAM	1855.0	1.70	1 / 25	23.48	25.18	0.330	33.01	-7.83
	256-QAM	1905.0	1.70	1 / 0	20.82	22.52	0.179	33.01	-10.49
15 MHz	$\pi/2$ BPSK	1857.5	1.70	1 / 0	25.27	26.97	0.498	33.01	-6.04
		1880.0	1.70	1 / 73	25.29	26.99	0.500	33.01	-6.02
		1902.5	1.70	1 / 37	25.70	27.40	0.550	33.01	-5.61
	QPSK	1857.5	1.70	1 / 37	25.22	26.92	0.492	33.01	-6.09
		1880.0	1.70	1 / 37	25.54	27.24	0.530	33.01	-5.77
		1902.5	1.70	1 / 0	25.37	27.07	0.510	33.01	-5.94
	16-QAM	1902.5	1.70	1 / 37	24.81	26.51	0.448	33.01	-6.50
	64-QAM	1902.5	1.70	1 / 37	22.91	24.61	0.289	33.01	-8.40
	256-QAM	1880.0	1.70	1 / 0	20.92	22.62	0.183	33.01	-10.39
20 MHz	$\pi/2$ BPSK	1860.0	1.70	1 / 50	25.70	27.40	0.550	33.01	-5.61
		1880.0	1.70	1 / 98	25.61	27.31	0.538	33.01	-5.70
		1900.0	1.70	1 / 98	25.62	27.32	0.540	33.01	-5.69
	QPSK	1860.0	1.70	1 / 50	25.64	27.34	0.542	33.01	-5.67
		1880.0	1.70	1 / 50	25.67	27.37	0.546	33.01	-5.64
		1900.0	1.70	1 / 0	25.60	27.30	0.537	33.01	-5.71
	16-QAM	1880.0	1.70	1 / 50	24.81	26.51	0.448	33.01	-6.50
	64-QAM	1860.0	1.70	1 / 50	23.48	25.18	0.329	33.01	-7.83
	256-QAM	1900.0	1.70	1 / 50	21.24	22.94	0.197	33.01	-10.07

Table 7-5. Antenna 4 EIRP Data (NR Band n2)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.65	1.70	27.35	0.544	33.01	-5.66
1880.00	WCDMA1900	25.65	1.70	27.35	0.544	33.01	-5.66
1907.60	WCDMA1900	25.63	1.70	27.33	0.540	33.01	-5.68

Table 7-6. Antenna 4 EIRP Data (WCDMA PCS)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-02-R1.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 172 of 207

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7.6.2 Antenna 2b – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-2.00	1 / 3	24.20	22.20	0.166	33.01	-10.81
		1882.5	-2.00	1 / 3	24.13	22.13	0.163	33.01	-10.88
		1914.3	-2.00	1 / 0	23.96	21.96	0.157	33.01	-11.05
	16-QAM	1882.5	-2.00	1 / 3	23.78	21.78	0.151	33.01	-11.23
	64-QAM	1882.5	-2.00	1 / 5	22.01	20.01	0.100	33.01	-13.00
	256-QAM	1882.5	-2.00	1 / 5	19.29	17.29	0.054	33.01	-15.72
3 MHz	QPSK	1851.5	-2.00	1 / 14	24.15	22.15	0.164	33.01	-10.86
		1882.5	-2.00	1 / 14	24.20	22.20	0.166	33.01	-10.81
		1913.5	-2.00	1 / 0	24.09	22.09	0.162	33.01	-10.92
	16-QAM	1851.5	-2.00	1 / 14	23.59	21.59	0.144	33.01	-11.42
	64-QAM	1882.5	-2.00	1 / 14	22.51	20.51	0.112	33.01	-12.50
	256-QAM	1913.5	-2.00	1 / 14	19.82	17.82	0.061	33.01	-15.19
5 MHz	QPSK	1852.5	-2.00	1 / 24	24.20	22.20	0.166	33.01	-10.81
		1882.5	-2.00	1 / 24	24.12	22.12	0.163	33.01	-10.89
		1912.5	-2.00	1 / 12	23.97	21.97	0.157	33.01	-11.04
	16-QAM	1852.5	-2.00	1 / 24	23.78	21.78	0.151	33.01	-11.23
	64-QAM	1882.5	-2.00	1 / 12	22.55	20.55	0.114	33.01	-12.46
	256-QAM	1852.5	-2.00	1 / 12	19.39	17.39	0.055	33.01	-15.62
10 MHz	QPSK	1855.0	-2.00	1 / 25	24.13	22.13	0.163	33.01	-10.88
		1882.5	-2.00	1 / 25	24.18	22.18	0.165	33.01	-10.83
		1910.0	-2.00	1 / 0	24.20	22.20	0.166	33.01	-10.81
	16-QAM	1855.0	-2.00	1 / 25	23.67	21.67	0.147	33.01	-11.34
	64-QAM	1910.0	-2.00	1 / 25	22.53	20.53	0.113	33.01	-12.48
	256-QAM	1910.0	-2.00	1 / 25	19.90	17.90	0.062	33.01	-15.11
15 MHz	QPSK	1857.5	-2.00	1 / 37	24.09	22.09	0.162	33.01	-10.92
		1882.5	-2.00	1 / 37	24.20	22.20	0.166	33.01	-10.81
		1907.5	-2.00	1 / 37	24.06	22.06	0.161	33.01	-10.95
	16-QAM	1857.5	-2.00	1 / 37	23.59	21.59	0.144	33.01	-11.42
	64-QAM	1882.5	-2.00	1 / 37	22.91	20.91	0.123	33.01	-12.10
	256-QAM	1907.5	-2.00	1 / 37	19.67	17.67	0.058	33.01	-15.34
20 MHz	QPSK	1860.0	-2.00	1 / 50	23.87	21.87	0.154	33.01	-11.14
		1882.5	-2.00	1 / 50	24.19	22.19	0.166	33.01	-10.82
		1905.0	-2.00	1 / 50	24.20	22.20	0.166	33.01	-10.81
	16-QAM	1905.0	-2.00	1 / 50	23.81	21.81	0.152	33.01	-11.20
	64-QAM	1860.0	-2.00	1 / 50	22.93	20.93	0.124	33.01	-12.08
	256-QAM	1905.0	-2.00	1 / 50	19.37	17.37	0.055	33.01	-15.64

Table 7-7. Antenna 2b EIRP Data (LTE Band 25)


FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-2.00	1 / 3	24.20	22.20	0.166	33.01	-10.81
		1880.0	-2.00	1 / 3	23.92	21.92	0.156	33.01	-11.09
		1909.3	-2.00	1 / 3	23.89	21.89	0.155	33.01	-11.12
	16-QAM	1850.7	-2.00	1 / 3	23.18	21.18	0.131	33.01	-11.83
	64-QAM	1850.7	-2.00	1 / 3	22.62	20.62	0.115	33.01	-12.39
	256-QAM	1909.3	-2.00	1 / 3	19.45	17.45	0.056	33.01	-15.56
3 MHz	QPSK	1851.5	-2.00	1 / 0	24.16	22.16	0.164	33.01	-10.85
		1880.0	-2.00	1 / 14	24.20	22.20	0.166	33.01	-10.81
		1908.5	-2.00	1 / 14	24.10	22.10	0.162	33.01	-10.91
	16-QAM	1908.5	-2.00	1 / 7	23.57	21.57	0.144	33.01	-11.44
	64-QAM	1908.5	-2.00	1 / 7	22.88	20.88	0.122	33.01	-12.13
	256-QAM	1908.5	-2.00	1 / 7	19.84	17.84	0.061	33.01	-15.17
5 MHz	QPSK	1852.5	-2.00	1 / 24	24.08	22.08	0.161	33.01	-10.93
		1880.0	-2.00	1 / 24	24.20	22.20	0.166	33.01	-10.81
		1907.5	-2.00	1 / 12	23.98	21.98	0.158	33.01	-11.03
	16-QAM	1880.0	-2.00	1 / 24	23.51	21.51	0.142	33.01	-11.50
	64-QAM	1852.5	-2.00	1 / 12	22.54	20.54	0.113	33.01	-12.47
	256-QAM	1852.5	-2.00	1 / 12	19.54	17.54	0.057	33.01	-15.47
10 MHz	QPSK	1855.0	-2.00	1 / 49	24.20	22.20	0.166	33.01	-10.81
		1880.0	-2.00	1 / 25	24.18	22.18	0.165	33.01	-10.83
		1905.0	-2.00	1 / 49	24.20	22.20	0.166	33.01	-10.81
	16-QAM	1905.0	-2.00	1 / 0	23.55	21.55	0.143	33.01	-11.46
	64-QAM	1905.0	-2.00	1 / 49	22.96	20.96	0.125	33.01	-12.05
	256-QAM	1880.0	-2.00	1 / 25	19.87	17.87	0.061	33.01	-15.14
15 MHz	QPSK	1857.5	-2.00	1 / 37	24.20	22.20	0.166	33.01	-10.81
		1880.0	-2.00	1 / 37	24.13	22.13	0.163	33.01	-10.88
		1902.5	-2.00	1 / 37	24.05	22.05	0.160	33.01	-10.96
	16-QAM	1902.5	-2.00	1 / 37	23.37	21.37	0.137	33.01	-11.64
	64-QAM	1902.5	-2.00	1 / 37	22.77	20.77	0.119	33.01	-12.24
	256-QAM	1902.5	-2.00	1 / 37	19.73	17.73	0.059	33.01	-15.28
20 MHz	QPSK	1860.0	-2.00	1 / 50	24.20	22.20	0.166	33.01	-10.81
		1880.0	-2.00	1 / 50	23.94	21.94	0.156	33.01	-11.07
		1900.0	-2.00	1 / 50	24.19	22.19	0.166	33.01	-10.82
	16-QAM	1900.0	-2.00	1 / 0	23.47	21.47	0.140	33.01	-11.54
	64-QAM	1880.0	-2.00	1 / 99	22.89	20.89	0.123	33.01	-12.12
	256-QAM	1880.0	-2.00	1 / 50	19.67	17.67	0.058	33.01	-15.34

Table 7-8. Antenna 2b EIRP Data (LTE Band 2)


FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-2.00	1 / 12	23.65	21.65	0.146	33.01	-11.36
		1882.5	-2.00	1 / 23	23.75	21.75	0.150	33.01	-11.26
		1912.5	-2.00	1 / 12	23.95	21.95	0.157	33.01	-11.06
	QPSK	1852.5	-2.00	1 / 12	23.96	21.96	0.157	33.01	-11.05
		1882.5	-2.00	1 / 23	24.20	22.20	0.166	33.01	-10.81
		1912.5	-2.00	1 / 0	24.14	22.14	0.164	33.01	-10.87
	16-QAM	1882.5	-2.00	1 / 23	22.98	20.98	0.125	33.01	-12.03
	64-QAM	1852.5	-2.00	1 / 23	21.28	19.28	0.085	33.01	-13.73
10 MHz	$\pi/2$ BPSK	1852.5	-2.00	1 / 23	19.42	17.42	0.055	33.01	-15.59
	QPSK	1855.0	-2.00	1 / 48	23.31	21.31	0.135	33.01	-11.70
		1882.5	-2.00	1 / 25	23.52	21.52	0.142	33.01	-11.49
		1910.0	-2.00	1 / 48	23.69	21.69	0.148	33.01	-11.32
	QPSK	1855.0	-2.00	1 / 25	23.95	21.95	0.157	33.01	-11.07
		1882.5	-2.00	1 / 48	23.73	21.73	0.149	33.01	-11.28
		1910.0	-2.00	1 / 48	24.20	22.20	0.166	33.01	-10.81
	16-QAM	1882.5	-2.00	1 / 48	22.79	20.79	0.120	33.01	-12.22
15 MHz	$\pi/2$ BPSK	1910.0	-2.00	1 / 48	21.34	19.34	0.086	33.01	-13.67
	QPSK	1910.0	-2.00	1 / 0	19.29	17.29	0.054	33.01	-15.72
		1857.5	-2.00	1 / 0	23.74	21.74	0.149	33.01	-11.27
	QPSK	1882.5	-2.00	1 / 0	23.63	21.63	0.145	33.01	-11.38
		1907.5	-2.00	1 / 0	23.66	21.66	0.147	33.01	-11.35
		1857.5	-2.00	1 / 73	24.01	22.01	0.159	33.01	-11.00
	QPSK	1882.5	-2.00	1 / 37	23.67	21.67	0.147	33.01	-11.34
		1907.5	-2.00	1 / 73	24.20	22.20	0.166	33.01	-10.81
20 MHz	$\pi/2$ BPSK	1882.5	-2.00	1 / 0	23.26	21.26	0.134	33.01	-11.75
	QPSK	1907.5	-2.00	1 / 37	21.36	19.36	0.086	33.01	-13.65
		1857.5	-2.00	1 / 73	19.62	17.62	0.058	33.01	-15.39
	QPSK	1860.0	-2.00	1 / 98	23.37	21.37	0.137	33.01	-11.64
		1882.5	-2.00	1 / 0	23.48	21.48	0.140	33.01	-11.54
		1905.0	-2.00	1 / 0	23.38	21.38	0.137	33.01	-11.63
	QPSK	1860.0	-2.00	1 / 0	23.69	21.69	0.147	33.01	-11.32
		1882.5	-2.00	1 / 0	24.20	22.20	0.166	33.01	-10.81
25 MHz	$\pi/2$ BPSK	1905.0	-2.00	1 / 50	23.73	21.73	0.149	33.01	-11.28
	QPSK	1905.0	-2.00	1 / 50	23.03	21.03	0.127	33.01	-11.98
		1860.0	-2.00	1 / 50	21.40	19.40	0.087	33.01	-13.61
	QPSK	1882.5	-2.00	1 / 0	19.11	17.11	0.051	33.01	-15.90
		1862.5	-2.00	1 / 131	23.92	21.92	0.155	33.01	-11.09
		1882.5	-2.00	1 / 0	23.47	21.47	0.140	33.01	-11.54
	QPSK	1902.5	-2.00	1 / 66	23.82	21.82	0.152	33.01	-11.19
		1862.5	-2.00	1 / 0	24.20	22.20	0.166	33.01	-10.81
30 MHz	$\pi/2$ BPSK	1882.5	-2.00	1 / 131	24.12	22.12	0.163	33.01	-10.89
	QPSK	1902.5	-2.00	1 / 131	23.97	21.97	0.158	33.01	-11.04
		1902.5	-2.00	1 / 131	23.29	21.29	0.135	33.01	-11.72
	QPSK	1882.5	-2.00	1 / 131	21.46	19.46	0.088	33.01	-13.55
		1862.5	-2.00	1 / 131	19.28	17.28	0.054	33.01	-15.73
	QPSK	1865.0	-2.00	1 / 0	23.96	21.96	0.157	33.01	-11.05
		1882.5	-2.00	1 / 0	23.89	21.89	0.155	33.01	-11.12
		1900.0	-2.00	1 / 214	23.72	21.72	0.148	33.01	-11.29
40 MHz	$\pi/2$ BPSK	1865.0	-2.00	1 / 214	23.83	21.83	0.152	33.01	-11.18
	QPSK	1882.5	-2.00	1 / 214	23.85	21.85	0.153	33.01	-11.16
		1900.0	-2.00	1 / 214	24.20	22.20	0.166	33.01	-10.81
	QPSK	1865.0	-2.00	1 / 80	22.99	20.99	0.126	33.01	-12.02
		1865.0	-2.00	1 / 0	21.70	19.70	0.093	33.01	-13.31
		1882.5	-2.00	1 / 0	19.14	17.14	0.052	33.01	-15.87
	QPSK	1870.0	-2.00	1 / 214	23.61	21.61	0.145	33.01	-11.40
		1882.5	-2.00	1 / 214	23.75	21.75	0.150	33.01	-11.26
		1895.0	-2.00	1 / 0	23.84	21.84	0.153	33.01	-11.17
40 MHz	$\pi/2$ BPSK	1870.0	-2.00	1 / 108	23.86	21.86	0.153	33.01	-11.15
	QPSK	1882.5	-2.00	1 / 0	24.14	22.14	0.164	33.01	-10.87
		1895.0	-2.00	1 / 108	23.83	21.83	0.152	33.01	-11.18
	QPSK	1882.5	-2.00	1 / 0	23.02	21.02	0.126	33.01	-11.99
		1895.0	-2.00	1 / 214	21.30	19.30	0.085	33.01	-13.71
	QPSK	1895.0	-2.00	1 / 108	19.23	17.23	0.053	33.01	-15.78
		1870.0	-2.00	1 / 108	23.86	21.86	0.153	33.01	-11.15
		1882.5	-2.00	1 / 0	24.14	22.14	0.164	33.01	-10.87

Table 7-9. Antenna 2b EIRP Data (NR Band n25)

FCC ID: BCGA2757		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-02-R1.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device		Page 175 of 207


NR Band n2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-2.00	1 / 23	23.70	21.70	0.148	33.01	-11.31
		1880.0	-2.00	1 / 23	24.02	22.02	0.159	33.01	-10.99
		1907.5	-2.00	1 / 12	23.63	21.63	0.146	33.01	-11.38
	QPSK	1852.5	-2.00	1 / 12	24.19	22.19	0.166	33.01	-10.82
		1880.0	-2.00	1 / 23	24.20	22.20	0.166	33.01	-10.81
		1907.5	-2.00	1 / 23	24.15	22.15	0.164	33.01	-10.86
	16-QAM	1880.0	-2.00	1 / 12	22.96	20.96	0.125	33.01	-12.05
	64-QAM	1880.0	-2.00	1 / 0	21.62	19.62	0.092	33.01	-13.39
	256-QAM	1907.5	-2.00	1 / 0	19.31	17.31	0.054	33.01	-15.70
10 MHz	$\pi/2$ BPSK	1855.0	-2.00	1 / 48	23.72	21.72	0.149	33.01	-11.29
		1880.0	-2.00	1 / 48	23.77	21.77	0.150	33.01	-11.24
		1905.0	-2.00	1 / 48	23.80	21.80	0.151	33.01	-11.21
	QPSK	1855.0	-2.00	1 / 0	23.84	21.84	0.153	33.01	-11.17
		1880.0	-2.00	1 / 25	24.20	22.20	0.166	33.01	-10.81
		1905.0	-2.00	1 / 25	24.05	22.05	0.160	33.01	-10.96
	16-QAM	1880.0	-2.00	1 / 48	22.83	20.83	0.121	33.01	-12.18
	64-QAM	1905.0	-2.00	1 / 48	21.53	19.53	0.090	33.01	-13.48
	256-QAM	1880.0	-2.00	1 / 25	19.15	17.15	0.052	33.01	-15.86
15 MHz	$\pi/2$ BPSK	1857.5	-2.00	1 / 0	23.67	21.67	0.147	33.01	-11.34
		1880.0	-2.00	1 / 0	23.87	21.87	0.154	33.01	-11.14
		1902.5	-2.00	1 / 0	23.93	21.93	0.156	33.01	-11.08
	QPSK	1857.5	-2.00	1 / 0	24.20	22.20	0.166	33.01	-10.81
		1880.0	-2.00	1 / 37	24.05	22.05	0.160	33.01	-10.96
		1902.5	-2.00	1 / 0	23.82	21.82	0.152	33.01	-11.19
	16-QAM	1857.5	-2.00	1 / 0	23.03	21.03	0.127	33.01	-11.98
	64-QAM	1902.5	-2.00	1 / 0	21.64	19.64	0.092	33.01	-13.37
	256-QAM	1880.0	-2.00	1 / 37	19.62	17.62	0.058	33.01	-15.39
20 MHz	$\pi/2$ BPSK	1860.0	-2.00	1 / 0	23.96	21.96	0.157	33.01	-11.05
		1880.0	-2.00	1 / 0	23.96	21.96	0.157	33.01	-11.05
		1900.0	-2.00	1 / 0	23.70	21.70	0.148	33.01	-11.31
	QPSK	1860.0	-2.00	1 / 0	24.09	22.09	0.162	33.01	-10.92
		1880.0	-2.00	1 / 50	24.20	22.20	0.166	33.01	-10.81
		1900.0	-2.00	1 / 98	23.95	21.95	0.157	33.01	-11.06
	16-QAM	1880.0	-2.00	1 / 0	23.30	21.30	0.135	33.01	-11.71
	64-QAM	1860.0	-2.00	1 / 98	21.47	19.47	0.089	33.01	-13.54
	256-QAM	1880.0	-2.00	1 / 0	19.58	17.58	0.057	33.01	-15.43

Table 7-10. Antenna 2b EIRP Data (NR Band n2)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	24.08	-2.00	22.08	0.161	33.01	-10.93
1880.00	WCDMA1900	24.18	-2.00	22.18	0.165	33.01	-10.83
1907.60	WCDMA1900	24.13	-2.00	22.13	0.163	33.01	-10.88

Table 7-11. Antenna 2b EIRP Data (WCDMA PCS)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.3 Antenna 3a – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
		1882.5	0.10	1 / 0	24.66	24.76	0.299	33.01	-8.25
		1914.3	0.10	1 / 0	24.97	25.07	0.321	33.01	-7.94
	16-QAM	1882.5	0.10	1 / 3	24.09	24.19	0.262	33.01	-8.82
	64-QAM	1882.5	0.10	1 / 3	23.00	23.10	0.204	33.01	-9.91
	256-QAM	1882.5	0.10	1 / 0	20.13	20.23	0.105	33.01	-12.78
3 MHz	QPSK	1851.5	0.10	1 / 14	24.74	24.84	0.305	33.01	-8.17
		1882.5	0.10	1 / 7	25.00	25.10	0.324	33.01	-7.91
		1913.5	0.10	1 / 14	24.65	24.75	0.299	33.01	-8.26
	16-QAM	1882.5	0.10	1 / 14	24.17	24.27	0.267	33.01	-8.74
	64-QAM	1851.5	0.10	1 / 0	23.12	23.22	0.210	33.01	-9.79
	256-QAM	1851.5	0.10	1 / 14	20.06	20.16	0.104	33.01	-12.85
5 MHz	QPSK	1852.5	0.10	1 / 24	25.00	25.10	0.324	33.01	-7.91
		1882.5	0.10	1 / 24	24.42	24.52	0.283	33.01	-8.49
		1912.5	0.10	1 / 24	24.94	25.04	0.319	33.01	-7.97
	16-QAM	1852.5	0.10	1 / 12	24.02	24.12	0.258	33.01	-8.89
	64-QAM	1882.5	0.10	1 / 24	23.02	23.12	0.205	33.01	-9.89
	256-QAM	1852.5	0.10	1 / 24	20.00	20.10	0.102	33.01	-12.91
10 MHz	QPSK	1855.0	0.10	1 / 0	24.97	25.07	0.321	33.01	-7.94
		1882.5	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
		1910.0	0.10	1 / 49	24.82	24.92	0.310	33.01	-8.09
	16-QAM	1855.0	0.10	1 / 0	24.07	24.17	0.261	33.01	-8.84
	64-QAM	1855.0	0.10	1 / 49	23.04	23.14	0.206	33.01	-9.87
	256-QAM	1910.0	0.10	1 / 49	20.00	20.10	0.102	33.01	-12.91
15 MHz	QPSK	1857.5	0.10	1 / 37	24.89	24.99	0.316	33.01	-8.02
		1882.5	0.10	1 / 37	25.00	25.10	0.324	33.01	-7.91
		1907.5	0.10	1 / 37	24.86	24.96	0.313	33.01	-8.05
	16-QAM	1857.5	0.10	1 / 37	24.39	24.49	0.281	33.01	-8.52
	64-QAM	1882.5	0.10	1 / 37	23.71	23.81	0.240	33.01	-9.20
	256-QAM	1907.5	0.10	1 / 37	20.47	20.57	0.114	33.01	-12.44
20 MHz	QPSK	1860.0	0.10	1 / 50	24.67	24.77	0.300	33.01	-8.24
		1882.5	0.10	1 / 50	24.99	25.09	0.323	33.01	-7.92
		1905.0	0.10	1 / 50	25.00	25.10	0.324	33.01	-7.91
	16-QAM	1905.0	0.10	1 / 50	24.61	24.71	0.296	33.01	-8.30
	64-QAM	1860.0	0.10	1 / 50	23.73	23.83	0.242	33.01	-9.18
	256-QAM	1905.0	0.10	1 / 50	20.17	20.27	0.106	33.01	-12.74

Table 7-12. Antenna 3a EIRP Data (LTE Band 25)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.10	1 / 3	24.76	24.86	0.306	33.01	-8.15
		1880.0	0.10	1 / 3	25.00	25.10	0.324	33.01	-7.91
		1909.3	0.10	1 / 3	24.66	24.76	0.299	33.01	-8.25
	16-QAM	1909.3	0.10	1 / 3	23.94	24.04	0.254	33.01	-8.97
	64-QAM	1880.0	0.10	1 / 3	23.38	23.48	0.223	33.01	-9.53
	256-QAM	1850.7	0.10	1 / 3	20.34	20.44	0.111	33.01	-12.57
3 MHz	QPSK	1851.5	0.10	1 / 14	24.88	24.98	0.315	33.01	-8.03
		1880.0	0.10	1 / 14	25.00	25.10	0.324	33.01	-7.91
		1908.5	0.10	1 / 14	24.96	25.06	0.321	33.01	-7.95
	16-QAM	1908.5	0.10	1 / 7	24.29	24.39	0.275	33.01	-8.62
	64-QAM	1908.5	0.10	1 / 14	23.66	23.76	0.238	33.01	-9.25
	256-QAM	1908.5	0.10	1 / 0	20.66	20.76	0.119	33.01	-12.25
5 MHz	QPSK	1852.5	0.10	1 / 12	24.88	24.98	0.315	33.01	-8.03
		1880.0	0.10	1 / 12	25.00	25.10	0.324	33.01	-7.91
		1907.5	0.10	1 / 12	24.80	24.90	0.309	33.01	-8.11
	16-QAM	1880.0	0.10	1 / 12	24.25	24.35	0.272	33.01	-8.66
	64-QAM	1852.5	0.10	1 / 12	23.33	23.43	0.220	33.01	-9.58
	256-QAM	1907.5	0.10	1 / 12	20.30	20.40	0.110	33.01	-12.61
10 MHz	QPSK	1855.0	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
		1880.0	0.10	1 / 49	25.00	25.10	0.324	33.01	-7.91
		1905.0	0.10	1 / 0	24.96	25.06	0.321	33.01	-7.95
	16-QAM	1905.0	0.10	1 / 49	24.32	24.42	0.277	33.01	-8.59
	64-QAM	1905.0	0.10	1 / 49	23.63	23.73	0.236	33.01	-9.28
	256-QAM	1905.0	0.10	1 / 25	20.59	20.69	0.117	33.01	-12.32
15 MHz	QPSK	1857.5	0.10	1 / 37	25.00	25.10	0.324	33.01	-7.91
		1880.0	0.10	1 / 37	24.93	25.03	0.318	33.01	-7.98
		1902.5	0.10	1 / 37	24.87	24.97	0.314	33.01	-8.04
	16-QAM	1902.5	0.10	1 / 74	24.17	24.27	0.267	33.01	-8.74
	64-QAM	1902.5	0.10	1 / 37	23.54	23.64	0.231	33.01	-9.37
	256-QAM	1902.5	0.10	1 / 74	20.52	20.62	0.115	33.01	-12.39
20 MHz	QPSK	1860.0	0.10	1 / 50	24.94	25.04	0.319	33.01	-7.97
		1880.0	0.10	1 / 50	24.65	24.75	0.299	33.01	-8.26
		1900.0	0.10	1 / 50	25.00	25.10	0.324	33.01	-7.91
	16-QAM	1900.0	0.10	1 / 50	24.23	24.33	0.271	33.01	-8.68
	64-QAM	1880.0	0.10	1 / 50	23.62	23.72	0.236	33.01	-9.29
	256-QAM	1880.0	0.10	1 / 50	20.37	20.47	0.111	33.01	-12.54

Table 7-13. Antenna 3a EIRP Data (LTE Band 2)


FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
5 MHz	π/2 BPSK	1852.5	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91	
		1882.5	0.10	1 / 0	24.72	24.82	0.303	33.01	-8.19	
		1912.5	0.10	1 / 12	24.94	25.04	0.319	33.01	-7.97	
	1882.5	0.10	1 / 12	24.76	24.86	0.306	33.01	-8.15		
	1912.5	0.10	1 / 0	24.57	24.67	0.293	33.01	-8.34		
	256-QAM	1912.5	0.10	1 / 12	20.18	20.28	0.107	33.01	-12.73	
	10 MHz	π/2 BPSK	1855.0	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
			1882.5	0.10	1 / 48	24.71	24.81	0.303	33.01	-8.20
1910.0			0.10	1 / 0	24.89	24.99	0.316	33.01	-8.02	
1882.5		0.10	1 / 0	24.78	24.88	0.307	33.01	-8.13		
1910.0		0.10	1 / 0	24.82	24.92	0.310	33.01	-8.09		
256-QAM		1882.5	0.10	1 / 48	20.80	20.90	0.123	33.01	-12.11	
15 MHz		π/2 BPSK	1857.5	0.10	1 / 0	24.99	25.09	0.323	33.01	-7.92
			1882.5	0.10	1 / 0	24.89	24.99	0.315	33.01	-8.02
	1907.5		0.10	1 / 37	25.00	25.10	0.324	33.01	-7.91	
	1882.5	0.10	1 / 73	24.94	25.04	0.319	33.01	-7.97		
	1907.5	0.10	1 / 37	24.86	24.96	0.313	33.01	-8.05		
	256-QAM	1857.5	0.10	1 / 0	20.45	20.55	0.113	33.01	-12.46	
	20 MHz	π/2 BPSK	1860.0	0.10	1 / 0	24.96	25.06	0.321	33.01	-7.95
			1882.5	0.10	1 / 98	25.00	25.10	0.324	33.01	-7.91
1905.0			0.10	1 / 0	24.92	25.02	0.318	33.01	-7.99	
1882.5		0.10	1 / 0	24.96	25.06	0.320	33.01	-7.95		
1905.0		0.10	1 / 0	24.92	25.02	0.317	33.01	-7.99		
256-QAM		1860.0	0.10	1 / 98	20.80	20.90	0.123	33.01	-12.11	
25 MHz		π/2 BPSK	1862.5	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
			1882.5	0.10	1 / 66	24.76	24.86	0.306	33.01	-8.15
	1902.5		0.10	1 / 131	24.62	24.72	0.297	33.01	-8.29	
	1882.5	0.10	1 / 0	24.80	24.90	0.309	33.01	-8.11		
	1902.5	0.10	1 / 0	24.71	24.81	0.303	33.01	-8.20		
	256-QAM	1902.5	0.10	1 / 66	20.25	20.35	0.108	33.01	-12.66	
	30 MHz	π/2 BPSK	1865.0	0.10	1 / 80	25.00	25.10	0.324	33.01	-7.91
			1882.5	0.10	1 / 214	24.76	24.86	0.306	33.01	-8.15
1900.0			0.10	1 / 0	24.86	24.96	0.313	33.01	-8.05	
1882.5		0.10	1 / 214	24.97	25.07	0.321	33.01	-7.94		
1900.0		0.10	1 / 0	24.93	25.03	0.319	33.01	-7.98		
256-QAM		1900.0	0.10	1 / 214	20.45	20.55	0.114	33.01	-12.46	
40 MHz		π/2 BPSK	1870.0	0.10	1 / 0	24.76	24.86	0.306	33.01	-8.15
			1882.5	0.10	1 / 214	25.00	25.10	0.324	33.01	-7.91
	1895.0		0.10	1 / 0	24.83	24.93	0.311	33.01	-8.08	
	1882.5	0.10	1 / 214	24.93	25.03	0.318	33.01	-7.98		
	1895.0	0.10	1 / 0	24.73	24.83	0.304	33.01	-8.18		
	256-QAM	1895.0	0.10	1 / 108	22.63	22.73	0.187	33.01	-10.28	
	256-QAM	1895.0	0.10	1 / 108	20.45	20.55	0.113	33.01	-12.46	

Table 7-14. Antenna 3a EIRP Data (NR Band n25)

FCC ID: BCGA2757		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	0.10	1 / 23	25.00	25.10	0.324	33.01	-7.91
		1880.0	0.10	1 / 12	24.88	24.98	0.315	33.01	-8.03
		1907.5	0.10	1 / 0	24.92	25.02	0.318	33.01	-7.99
	QPSK	1852.5	0.10	1 / 0	24.81	24.91	0.310	33.01	-8.10
		1880.0	0.10	1 / 12	24.72	24.82	0.303	33.01	-8.19
		1907.5	0.10	1 / 23	24.78	24.88	0.307	33.01	-8.13
	16-QAM	1907.5	0.10	1 / 12	23.91	24.01	0.252	33.01	-9.00
	64-QAM	1907.5	0.10	1 / 0	22.46	22.56	0.180	33.01	-10.46
	256-QAM	1852.5	0.10	1 / 12	20.84	20.94	0.124	33.01	-12.07
10 MHz	$\pi/2$ BPSK	1855.0	0.10	1 / 25	25.00	25.10	0.324	33.01	-7.91
		1880.0	0.10	1 / 25	24.89	24.99	0.315	33.01	-8.02
		1905.0	0.10	1 / 0	24.69	24.79	0.302	33.01	-8.22
	QPSK	1855.0	0.10	1 / 25	24.91	25.01	0.317	33.01	-8.00
		1880.0	0.10	1 / 25	24.54	24.64	0.291	33.01	-8.37
		1905.0	0.10	1 / 48	24.92	25.02	0.317	33.01	-7.99
	16-QAM	1855.0	0.10	1 / 0	23.74	23.84	0.242	33.01	-9.17
	64-QAM	1905.0	0.10	1 / 0	22.58	22.68	0.185	33.01	-10.33
	256-QAM	1880.0	0.10	1 / 25	20.48	20.58	0.114	33.01	-12.43
15 MHz	$\pi/2$ BPSK	1857.5	0.10	1 / 37	24.91	25.01	0.317	33.01	-8.00
		1880.0	0.10	1 / 0	24.85	24.95	0.313	33.01	-8.06
		1902.5	0.10	1 / 0	24.74	24.84	0.305	33.01	-8.17
	QPSK	1857.5	0.10	1 / 73	25.00	25.10	0.323	33.01	-7.91
		1880.0	0.10	1 / 37	24.65	24.75	0.299	33.01	-8.26
		1902.5	0.10	1 / 0	25.00	25.10	0.324	33.01	-7.91
	16-QAM	1902.5	0.10	1 / 73	24.03	24.13	0.259	33.01	-8.88
	64-QAM	1902.5	0.10	1 / 73	22.46	22.56	0.180	33.01	-10.45
	256-QAM	1857.5	0.10	1 / 0	20.44	20.54	0.113	33.01	-12.47
20 MHz	$\pi/2$ BPSK	1860.0	0.10	1 / 98	24.99	25.09	0.323	33.01	-7.92
		1880.0	0.10	1 / 50	24.83	24.93	0.311	33.01	-8.08
		1900.0	0.10	1 / 50	24.34	24.44	0.278	33.01	-8.57
	QPSK	1860.0	0.10	1 / 50	24.80	24.90	0.309	33.01	-8.11
		1880.0	0.10	1 / 98	24.85	24.95	0.313	33.01	-8.06
		1900.0	0.10	1 / 50	25.00	25.10	0.324	33.01	-7.91
	16-QAM	1860.0	0.10	1 / 50	23.79	23.89	0.245	33.01	-9.12
	64-QAM	1860.0	0.10	1 / 0	22.61	22.71	0.186	33.01	-10.30
	256-QAM	1880.0	0.10	1 / 98	20.31	20.41	0.110	33.01	-12.60

Table 7-15. Antenna 3a EIRP Data (NR Band n2)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	24.93	0.10	25.03	0.318	33.01	-7.98
1880.00	WCDMA1900	24.98	0.10	25.08	0.322	33.01	-7.93
1907.60	WCDMA1900	24.93	0.10	25.03	0.319	33.01	-7.98

Table 7-16. Antenna 3a EIRP Data (WCDMA PCS)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.4 Antenna 1b – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-0.60	1 / 3	23.69	23.09	0.204	33.01	-9.92
		1882.5	-0.60	1 / 5	23.70	23.10	0.204	33.01	-9.91
		1914.3	-0.60	1 / 3	23.52	22.92	0.196	33.01	-10.09
	16-QAM	1882.5	-0.60	1 / 3	23.39	22.79	0.190	33.01	-10.22
	64-QAM	1882.5	-0.60	1 / 3	23.29	22.69	0.186	33.01	-10.32
	256-QAM	1882.5	-0.60	1 / 3	23.33	22.73	0.187	33.01	-10.28
3 MHz	QPSK	1851.5	-0.60	1 / 14	23.63	23.03	0.201	33.01	-9.98
		1882.5	-0.60	1 / 14	23.70	23.10	0.204	33.01	-9.91
		1913.5	-0.60	1 / 14	23.57	22.97	0.198	33.01	-10.04
	16-QAM	1882.5	-0.60	1 / 14	23.22	22.62	0.183	33.01	-10.39
	64-QAM	1882.5	-0.60	1 / 14	23.20	22.60	0.182	33.01	-10.41
	256-QAM	1882.5	-0.60	1 / 14	23.18	22.58	0.181	33.01	-10.43
5 MHz	QPSK	1852.5	-0.60	1 / 12	23.61	23.01	0.200	33.01	-10.00
		1882.5	-0.60	1 / 12	23.70	23.10	0.204	33.01	-9.91
		1912.5	-0.60	1 / 0	23.36	22.76	0.189	33.01	-10.25
	16-QAM	1882.5	-0.60	1 / 12	23.28	22.68	0.185	33.01	-10.33
	64-QAM	1882.5	-0.60	1 / 12	23.24	22.64	0.184	33.01	-10.37
	256-QAM	1882.5	-0.60	1 / 24	23.23	22.63	0.183	33.01	-10.38
10 MHz	QPSK	1855.0	-0.60	1 / 25	23.70	23.10	0.204	33.01	-9.91
		1882.5	-0.60	1 / 49	23.69	23.09	0.204	33.01	-9.92
		1910.0	-0.60	1 / 0	23.60	23.00	0.200	33.01	-10.01
	16-QAM	1882.5	-0.60	1 / 0	23.22	22.62	0.183	33.01	-10.39
	64-QAM	1882.5	-0.60	1 / 0	23.21	22.61	0.182	33.01	-10.40
	256-QAM	1882.5	-0.60	1 / 0	23.19	22.59	0.182	33.01	-10.42
15 MHz	QPSK	1857.5	-0.60	1 / 37	23.70	23.10	0.204	33.01	-9.91
		1882.5	-0.60	1 / 37	23.67	23.07	0.203	33.01	-9.94
		1907.5	-0.60	1 / 37	23.48	22.88	0.194	33.01	-10.13
	16-QAM	1882.5	-0.60	1 / 37	23.13	22.53	0.179	33.01	-10.48
	64-QAM	1882.5	-0.60	1 / 37	23.14	22.54	0.179	33.01	-10.47
	256-QAM	1882.5	-0.60	1 / 37	23.16	22.56	0.180	33.01	-10.45
20 MHz	QPSK	1860.0	-0.60	1 / 99	23.70	23.10	0.204	33.01	-9.91
		1882.5	-0.60	1 / 50	23.43	22.83	0.192	33.01	-10.18
		1905.0	-0.60	1 / 50	23.65	23.05	0.202	33.01	-9.96
	16-QAM	1905.0	-0.60	1 / 50	23.26	22.66	0.185	33.01	-10.35
	64-QAM	1905.0	-0.60	1 / 50	23.30	22.70	0.186	33.01	-10.31
	256-QAM	1905.0	-0.60	1 / 50	23.28	22.68	0.185	33.01	-10.33

Table 7-17. Antenna 1b EIRP Data (LTE Band 25)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-0.60	1 / 3	23.59	22.99	0.199	33.01	-10.02
		1880.0	-0.60	1 / 3	23.57	22.97	0.198	33.01	-10.04
		1909.3	-0.60	1 / 3	23.70	23.10	0.204	33.01	-9.91
	16-QAM	1850.7	-0.60	1 / 3	22.81	22.21	0.166	33.01	-10.80
	64-QAM	1909.3	-0.60	1 / 3	22.09	21.49	0.141	33.01	-11.52
	256-QAM	1880.0	-0.60	1 / 3	19.20	18.60	0.072	33.01	-14.41
3 MHz	QPSK	1851.5	-0.60	1 / 14	23.66	23.06	0.202	33.01	-9.95
		1880.0	-0.60	1 / 14	23.70	23.10	0.204	33.01	-9.91
		1908.5	-0.60	1 / 14	23.59	22.99	0.199	33.01	-10.02
	16-QAM	1908.5	-0.60	1 / 7	22.97	22.37	0.173	33.01	-10.64
	64-QAM	1908.5	-0.60	1 / 7	22.30	21.70	0.148	33.01	-11.31
	256-QAM	1880.0	-0.60	1 / 14	19.27	18.67	0.074	33.01	-14.34
5 MHz	QPSK	1852.5	-0.60	1 / 12	23.57	22.97	0.198	33.01	-10.04
		1880.0	-0.60	1 / 24	23.70	23.10	0.204	33.01	-9.91
		1907.5	-0.60	1 / 12	23.44	22.84	0.192	33.01	-10.17
	16-QAM	1880.0	-0.60	1 / 12	23.01	22.41	0.174	33.01	-10.60
	64-QAM	1852.5	-0.60	1 / 12	22.01	21.41	0.138	33.01	-11.60
	256-QAM	1852.5	-0.60	1 / 12	19.04	18.44	0.070	33.01	-14.57
10 MHz	QPSK	1855.0	-0.60	1 / 0	23.65	23.05	0.202	33.01	-9.96
		1880.0	-0.60	1 / 49	23.70	23.10	0.204	33.01	-9.91
		1905.0	-0.60	1 / 49	23.67	23.07	0.203	33.01	-9.94
	16-QAM	1905.0	-0.60	1 / 0	23.02	22.42	0.175	33.01	-10.59
	64-QAM	1905.0	-0.60	1 / 49	22.32	21.72	0.149	33.01	-11.29
	256-QAM	1880.0	-0.60	1 / 25	19.39	18.79	0.076	33.01	-14.22
15 MHz	QPSK	1857.5	-0.60	1 / 37	23.70	23.10	0.204	33.01	-9.91
		1880.0	-0.60	1 / 37	23.56	22.96	0.198	33.01	-10.05
		1902.5	-0.60	1 / 37	23.48	22.88	0.194	33.01	-10.13
	16-QAM	1902.5	-0.60	1 / 37	22.79	22.19	0.166	33.01	-10.82
	64-QAM	1902.5	-0.60	1 / 37	22.17	21.57	0.144	33.01	-11.44
	256-QAM	1880.0	-0.60	1 / 37	19.21	18.61	0.073	33.01	-14.40
20 MHz	QPSK	1860.0	-0.60	1 / 50	23.38	22.78	0.190	33.01	-10.23
		1880.0	-0.60	1 / 50	23.70	23.10	0.204	33.01	-9.91
		1900.0	-0.60	1 / 50	23.59	22.99	0.199	33.01	-10.02
	16-QAM	1880.0	-0.60	1 / 99	22.90	22.30	0.170	33.01	-10.71
	64-QAM	1860.0	-0.60	1 / 50	22.37	21.77	0.150	33.01	-11.24
	256-QAM	1860.0	-0.60	1 / 50	19.11	18.51	0.071	33.01	-14.50

Table 7-18. Antenna 1b EIRP Data (LTE Band 2)


FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090023-02-R1.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 182 of 207

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-0.60	1 / 23	23.30	22.70	0.186	33.01	-10.31
		1882.5	-0.60	1 / 23	23.40	22.80	0.191	33.01	-10.21
		1912.5	-0.60	1 / 12	23.33	22.73	0.187	33.01	-10.28
	QPSK	1852.5	-0.60	1 / 23	23.70	23.10	0.204	33.01	-9.91
		1882.5	-0.60	1 / 0	23.30	22.70	0.186	33.01	-10.31
		1912.5	-0.60	1 / 0	23.33	22.73	0.187	33.01	-10.28
	16-QAM	1852.5	-0.60	1 / 23	22.60	22.00	0.159	33.01	-11.01
		1882.5	-0.60	1 / 0	20.80	20.20	0.105	33.01	-12.81
		1912.5	-0.60	1 / 23	18.71	18.11	0.065	33.01	-14.90
10 MHz	$\pi/2$ BPSK	1855.0	-0.60	1 / 48	23.52	22.92	0.196	33.01	-10.09
		1882.5	-0.60	1 / 0	23.58	22.98	0.198	33.01	-10.03
		1910.0	-0.60	1 / 0	23.70	23.10	0.204	33.01	-9.91
	QPSK	1855.0	-0.60	1 / 25	23.62	23.02	0.200	33.01	-9.99
		1882.5	-0.60	1 / 25	23.50	22.90	0.195	33.01	-10.11
		1910.0	-0.60	1 / 0	23.64	23.04	0.201	33.01	-9.98
	16-QAM	1855.0	-0.60	1 / 48	22.80	22.20	0.166	33.01	-10.81
		1882.5	-0.60	1 / 25	20.94	20.34	0.108	33.01	-12.67
		1882.5	-0.60	1 / 48	18.98	18.38	0.069	33.01	-14.63
15 MHz	$\pi/2$ BPSK	1857.5	-0.60	1 / 0	23.59	22.99	0.199	33.01	-10.02
		1882.5	-0.60	1 / 37	23.70	23.10	0.204	33.01	-9.91
		1907.5	-0.60	1 / 0	23.68	23.08	0.203	33.01	-9.93
	QPSK	1857.5	-0.60	1 / 0	23.51	22.91	0.195	33.01	-10.10
		1882.5	-0.60	1 / 73	23.44	22.84	0.192	33.01	-10.17
		1907.5	-0.60	1 / 0	23.53	22.93	0.197	33.01	-10.08
	16-QAM	1907.5	-0.60	1 / 37	22.58	21.98	0.158	33.01	-11.03
		1882.5	-0.60	1 / 0	20.88	20.28	0.107	33.01	-12.73
20 MHz	$\pi/2$ BPSK	1857.5	-0.60	1 / 73	18.91	18.31	0.068	33.01	-14.70
		1860.0	-0.60	1 / 50	23.16	22.56	0.180	33.01	-10.45
		1882.5	-0.60	1 / 0	23.41	22.81	0.191	33.01	-10.20
	QPSK	1905.0	-0.60	1 / 0	23.45	22.85	0.193	33.01	-10.16
		1860.0	-0.60	1 / 0	23.70	23.10	0.204	33.01	-9.91
		1882.5	-0.60	1 / 50	23.23	22.63	0.183	33.01	-10.38
	16-QAM	1905.0	-0.60	1 / 0	23.32	22.72	0.187	33.01	-10.30
		1905.0	-0.60	1 / 0	22.47	21.87	0.154	33.01	-11.14
25 MHz	$\pi/2$ BPSK	1882.5	-0.60	1 / 50	20.56	19.96	0.099	33.01	-13.05
		1860.0	-0.60	1 / 0	18.52	17.92	0.062	33.01	-15.09
		1862.5	-0.60	1 / 0	23.70	23.10	0.204	33.01	-9.91
	QPSK	1882.5	-0.60	1 / 131	23.32	22.72	0.187	33.01	-10.29
		1902.5	-0.60	1 / 131	23.55	22.95	0.197	33.01	-10.06
		1862.5	-0.60	1 / 0	23.48	22.88	0.194	33.01	-10.13
	16-QAM	1882.5	-0.60	1 / 66	23.41	22.81	0.191	33.01	-10.20
		1902.5	-0.60	1 / 131	23.34	22.74	0.188	33.01	-10.27
30 MHz	$\pi/2$ BPSK	1902.5	-0.60	1 / 0	22.92	22.32	0.171	33.01	-10.69
		1862.5	-0.60	1 / 131	20.92	20.32	0.108	33.01	-12.69
		1882.5	-0.60	1 / 131	19.09	18.49	0.071	33.01	-14.52
	QPSK	1865.0	-0.60	1 / 214	23.32	22.72	0.187	33.01	-10.29
		1882.5	-0.60	1 / 80	23.70	23.10	0.204	33.01	-9.91
		1900.0	-0.60	1 / 80	23.52	22.92	0.196	33.01	-10.09
	16-QAM	1865.0	-0.60	1 / 214	23.49	22.89	0.195	33.01	-10.12
		1882.5	-0.60	1 / 0	23.52	22.92	0.196	33.01	-10.09
40 MHz	$\pi/2$ BPSK	1900.0	-0.60	1 / 214	23.43	22.83	0.192	33.01	-10.18
		1865.0	-0.60	1 / 80	22.49	21.89	0.154	33.01	-11.12
		1865.0	-0.60	1 / 214	21.00	20.40	0.110	33.01	-12.61
	QPSK	1865.0	-0.60	1 / 0	18.54	17.94	0.062	33.01	-15.07
		1870.0	-0.60	1 / 214	23.22	22.62	0.183	33.01	-10.39
		1882.5	-0.60	1 / 0	23.38	22.78	0.190	33.01	-10.23
	16-QAM	1895.0	-0.60	1 / 108	23.06	22.46	0.176	33.01	-10.56
		1870.0	-0.60	1 / 214	23.70	23.10	0.204	33.01	-9.91

Table 7-19. Antenna 1b EIRP Data (NR Band n25)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-0.60	1 / 12	23.52	22.92	0.196	33.01	-10.09
		1880.0	-0.60	1 / 12	23.31	22.71	0.187	33.01	-10.30
		1907.5	-0.60	1 / 23	23.53	22.93	0.196	33.01	-10.08
	QPSK	1852.5	-0.60	1 / 23	23.70	23.10	0.204	33.01	-9.91
		1880.0	-0.60	1 / 0	23.33	22.73	0.187	33.01	-10.28
		1907.5	-0.60	1 / 12	23.53	22.93	0.196	33.01	-10.08
	16-QAM	1852.5	-0.60	1 / 23	22.71	22.11	0.163	33.01	-10.90
	64-QAM	1880.0	-0.60	1 / 23	20.86	20.26	0.106	33.01	-12.75
	256-QAM	1880.0	-0.60	1 / 23	18.85	18.25	0.067	33.01	-14.76
10 MHz	$\pi/2$ BPSK	1855.0	-0.60	1 / 0	23.42	22.82	0.192	33.01	-10.19
		1880.0	-0.60	1 / 25	23.49	22.89	0.195	33.01	-10.12
		1905.0	-0.60	1 / 0	23.53	22.93	0.196	33.01	-10.08
	QPSK	1855.0	-0.60	1 / 25	23.70	23.10	0.204	33.01	-9.91
		1880.0	-0.60	1 / 48	23.37	22.77	0.189	33.01	-10.24
		1905.0	-0.60	1 / 25	23.34	22.74	0.188	33.01	-10.27
	16-QAM	1880.0	-0.60	1 / 48	22.70	22.10	0.162	33.01	-10.91
	64-QAM	1880.0	-0.60	1 / 48	21.05	20.45	0.111	33.01	-12.56
	256-QAM	1880.0	-0.60	1 / 0	18.88	18.28	0.067	33.01	-14.73
15 MHz	$\pi/2$ BPSK	1857.5	-0.60	1 / 73	23.58	22.98	0.199	33.01	-10.03
		1880.0	-0.60	1 / 0	23.55	22.95	0.197	33.01	-10.06
		1902.5	-0.60	1 / 0	23.70	23.10	0.204	33.01	-9.91
	QPSK	1857.5	-0.60	1 / 0	23.67	23.07	0.203	33.01	-9.94
		1880.0	-0.60	1 / 73	23.68	23.08	0.203	33.01	-9.93
		1902.5	-0.60	1 / 73	23.69	23.09	0.204	33.01	-9.92
	16-QAM	1880.0	-0.60	1 / 37	23.01	22.41	0.174	33.01	-10.60
	64-QAM	1902.5	-0.60	1 / 73	21.41	20.81	0.120	33.01	-12.20
	256-QAM	1902.5	-0.60	1 / 0	19.09	18.49	0.071	33.01	-14.52
20 MHz	$\pi/2$ BPSK	1860.0	-0.60	1 / 0	23.11	22.51	0.178	33.01	-10.50
		1880.0	-0.60	1 / 50	23.70	23.10	0.204	33.01	-9.91
		1900.0	-0.60	1 / 0	23.32	22.72	0.187	33.01	-10.29
	QPSK	1860.0	-0.60	1 / 0	23.16	22.56	0.180	33.01	-10.45
		1880.0	-0.60	1 / 98	23.13	22.53	0.179	33.01	-10.48
		1900.0	-0.60	1 / 0	23.22	22.62	0.183	33.01	-10.40
	16-QAM	1860.0	-0.60	1 / 0	22.60	22.00	0.158	33.01	-11.02
	64-QAM	1880.0	-0.60	1 / 50	20.55	19.95	0.099	33.01	-13.06
	256-QAM	1900.0	-0.60	1 / 50	18.48	17.88	0.061	33.01	-15.13

Table 7-20. Antenna 1b EIRP Data (NR Band n2)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	23.56	-0.60	22.96	0.198	33.01	-10.05
1880.00	WCDMA1900	23.65	-0.60	23.05	0.202	33.01	-9.96
1907.60	WCDMA1900	23.65	-0.60	23.05	0.202	33.01	-9.96

Table 7-21. Antenna 1b EIRP Data (WCDMA PCS)

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7.7 Radiated Spurious Emissions

§2.1053, 24.238(a)

Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

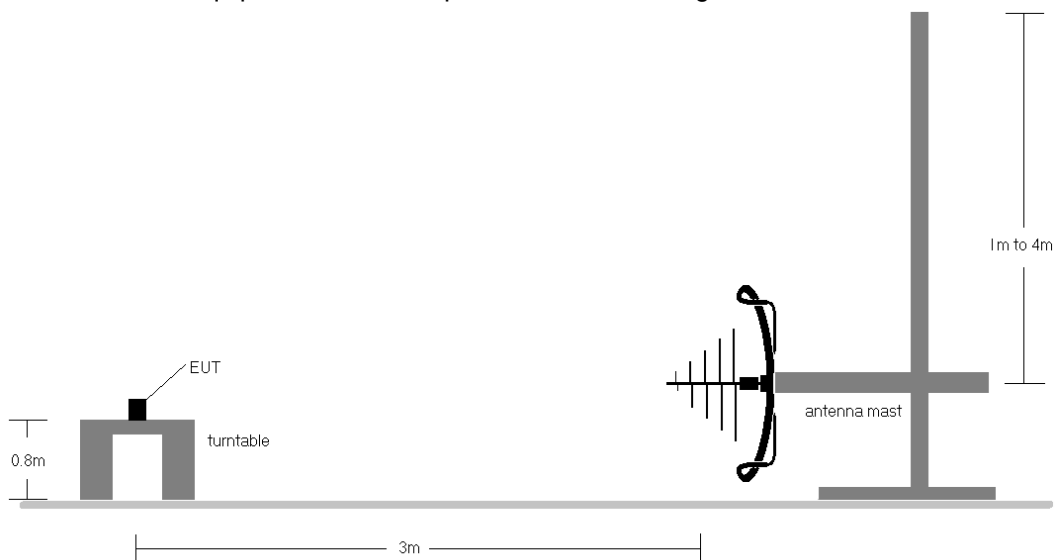


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

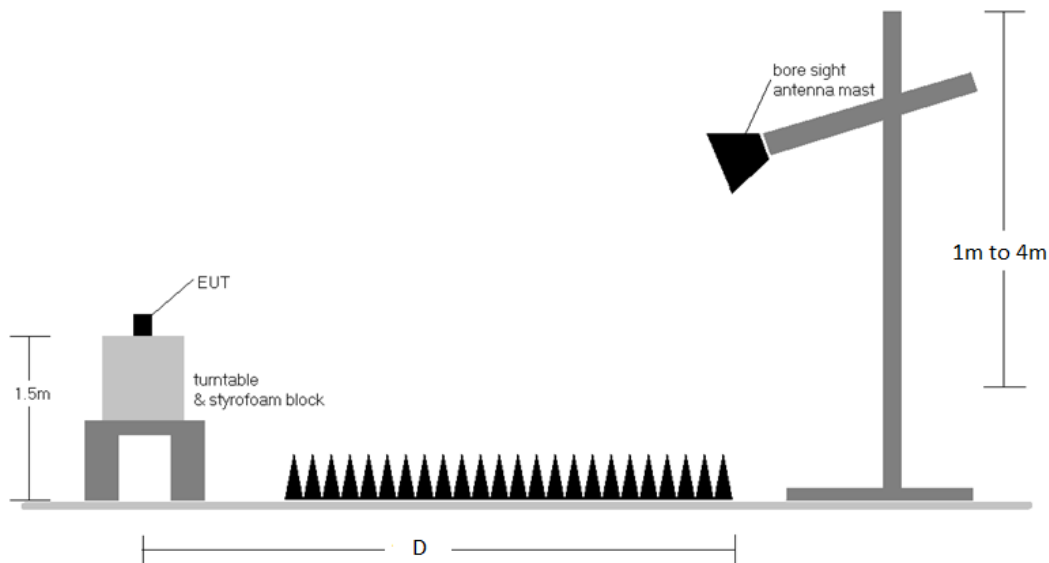




Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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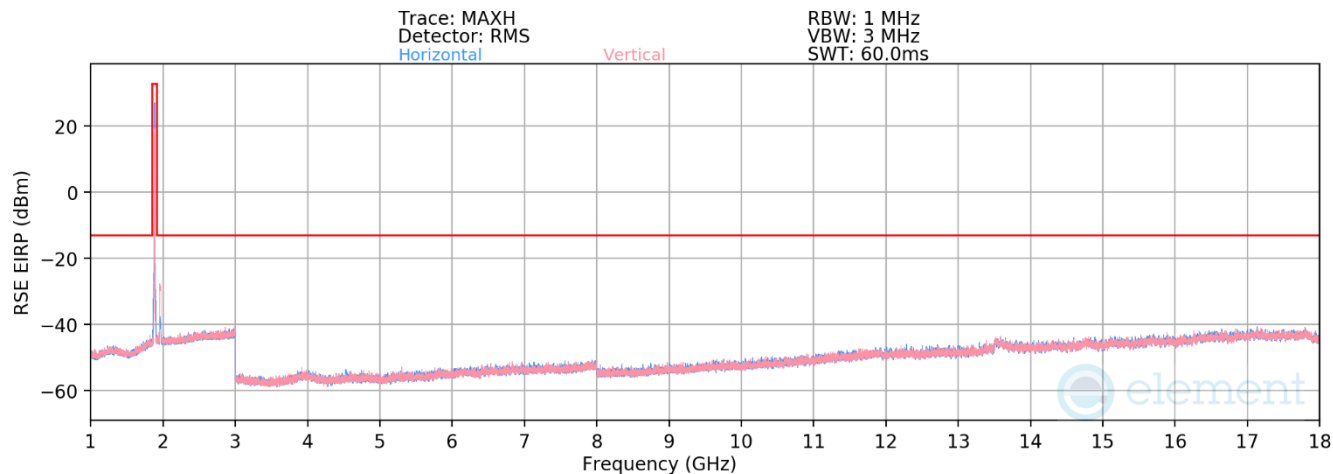
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. No significant emissions were found for below 1GHz and Above 18GHz measurement.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
10. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
11. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the radiated emissions data of NR band n25 provided in this report covers NR band n2.


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7.7.1 Antenna 4 – Radiated Spurious Emission Measurement LTE Band 25/2



Plot 7-288. Radiated Spurious Plot (LTE Band 25/2)

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Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	214	41	-77.00	3.31	33.31	-61.95	-13.00	-48.95
5580.0	H	-	-	-78.13	5.12	33.99	-61.27	-13.00	-48.27
7440.0	H	-	-	-79.70	8.59	35.89	-59.37	-13.00	-46.37
9300.0	H	-	-	-82.94	11.57	35.63	-59.62	-13.00	-46.62

Table 7-22. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	102	158	-70.14	2.90	39.76	-55.50	-13.00	-42.50
5647.5	H	-	-	-72.01	4.91	39.90	-55.36	-13.00	-42.36
7530.0	H	-	-	-70.73	8.95	45.22	-50.04	-13.00	-37.04
9412.5	H	-	-	-71.72	12.23	47.51	-47.75	-13.00	-34.75

Table 7-23. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

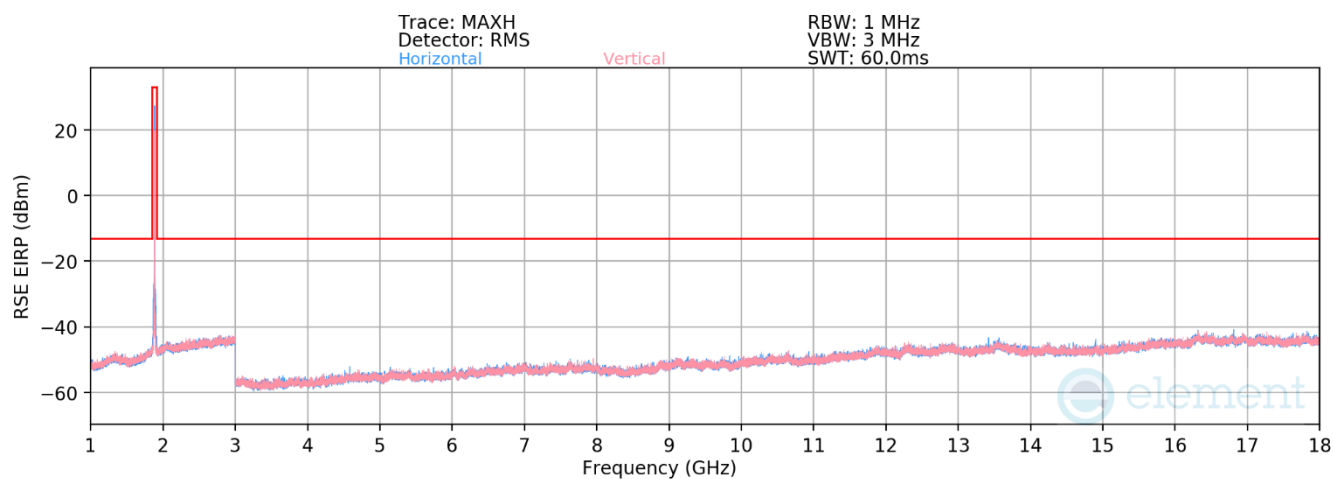
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	H	105	153	-72.36	3.50	38.14	-57.12	-13.00	-44.12
5715.0	H	-	-	-78.26	5.82	34.56	-60.69	-13.00	-47.69
7620.0	H	-	-	-80.18	9.00	35.82	-59.44	-13.00	-46.44
9525.0	H	-	-	-82.46	12.42	36.96	-58.30	-13.00	-45.30

Table 7-24. Antenna 4 Radiated Spurious Data (LTE Band 25/2 – High Channel)


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NR Band n25/2



Plot 7-289. Radiated Spurious Plot (NR Band n25/2)

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Bandwidth (MHz):	40
Frequency (MHz):	1870.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3740.0	H	-	-	-80.13	7.00	33.87	-61.39	-13.00	-48.39
5610.0	H	-	-	-82.29	10.11	34.82	-60.44	-13.00	-47.44
7480.0	H	-	-	-82.33	11.57	36.24	-59.02	-13.00	-46.02

Table 7-25. Antenna 4 Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1/108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	348	194	-79.34	7.57	35.23	-60.02	-13.00	-47.02
5647.5	V	-	-	-82.32	10.50	35.18	-60.08	-13.00	-47.08
7530.0	V	-	-	-81.88	11.30	36.42	-58.84	-13.00	-45.84
9412.5	V	-	-	-82.53	13.23	37.70	-57.56	-13.00	-44.56

Table 7-26. Antenna 4 Radiated Spurious Data (NR Band n25/2 – Mid Channel)

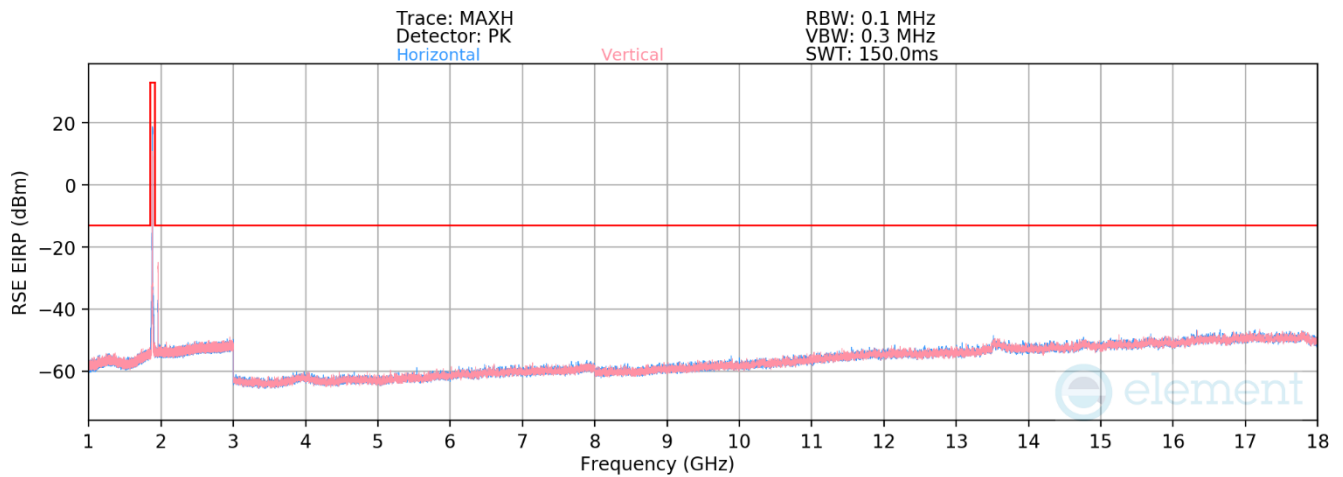
Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	H	-	-	-80.02	7.17	34.15	-61.10	-13.00	-48.10
5685.0	H	-	-	-81.47	9.39	34.92	-60.34	-13.00	-47.34
7580.0	H	-	-	-82.44	12.12	36.68	-58.58	-13.00	-45.58


Table 7-27. Antenna 4 Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS



Plot 7-290. Radiated Spurious Plot (WCDMA PCS)

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Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	-	-	-	-76.84	2.79	32.95	-62.31	-13.00	-49.31
5557.2	-	-	-	-78.15	5.53	34.38	-60.88	-13.00	-47.88
7409.6	-	-	-	-79.33	8.74	36.41	-58.85	-13.00	-45.85

Table 7-28. Antenna 4 Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	-	-	-	-76.70	2.88	33.18	-62.07	-13.00	-49.07
5640.0	-	-	-	-77.57	4.89	34.32	-60.93	-13.00	-47.93
7520.0	-	-	-	-79.67	8.82	36.15	-59.11	-13.00	-46.11

Table 7-29. Antenna 4 Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	-	-	-	-76.68	3.44	33.76	-61.50	-13.00	-48.50
5722.8	-	-	-	-78.06	5.84	34.78	-60.48	-13.00	-47.48
7630.4	-	-	-	-79.64	9.02	36.38	-58.88	-13.00	-45.88

Table 7-30. Antenna 4 Radiated Spurious Data (WCDMA PCS – High Channel)

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7.7.2 Antenna 2b – Radiated Spurious Emission Measurement LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	341	352	-76.52	3.31	33.79	-61.47	-13.00	-48.47
5580.0	V	-	-	-78.21	5.12	33.91	-61.35	-13.00	-48.35
7440.0	V	-	-	-79.88	8.59	35.71	-59.55	-13.00	-46.55
9300.0	V	-	-	-82.19	11.57	36.38	-58.87	-13.00	-45.87

Table 7-31. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	113	157	-74.37	2.90	35.53	-59.73	-13.00	-46.73
5647.5	H	-	-	-77.68	4.91	34.23	-61.03	-13.00	-48.03
7530.0	H	-	-	-80.10	8.95	35.85	-59.41	-13.00	-46.41
9412.5	H	-	-	-82.62	12.23	36.61	-58.65	-13.00	-45.65

Table 7-32. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	H	109	155	-72.86	3.50	37.64	-57.62	-13.00	-44.62
5715.0	H	-	-	-78.36	5.82	34.46	-60.79	-13.00	-47.79
7620.0	H	-	-	-80.10	9.00	35.90	-59.36	-13.00	-46.36
9525.0	H	-	-	-82.70	12.42	36.72	-58.54	-13.00	-45.54

Table 7-33. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – High Channel)

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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3740.0	H	-	-	-80.67	7.00	33.33	-61.93	-13.00	-48.93
5610.0	H	-	-	-82.23	10.11	34.88	-60.38	-13.00	-47.38
7480.0	H	-	-	-82.18	11.57	36.39	-58.87	-13.00	-45.87

Table 7-34. Antenna 2b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1/108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	258	200	-80.22	7.57	34.35	-60.90	-13.00	-47.90
5647.5	V	-	-	-81.97	10.50	35.53	-59.73	-13.00	-46.73
7530.0	V	-	-	-81.80	11.30	36.50	-58.76	-13.00	-45.76
9412.5	V	-	-	-82.34	13.23	37.89	-57.37	-13.00	-44.37

Table 7-35. Antenna 2b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	H	-	-	-80.79	7.17	33.38	-61.87	-13.00	-48.87
5685.0	H	-	-	-81.50	9.39	34.89	-60.37	-13.00	-47.37
7580.0	H	-	-	-82.65	12.12	36.47	-58.79	-13.00	-45.79

Table 7-36. Antenna 2b Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	H	-	-	-76.81	2.79	32.98	-62.28	-13.00	-49.28
5557.2	H	-	-	-78.08	5.53	34.45	-60.81	-13.00	-47.81
7409.6	H	-	-	-79.55	8.74	36.19	-59.07	-13.00	-46.07

Table 7-37. Antenna 2b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	-	-	-76.77	2.88	33.11	-62.14	-13.00	-49.14
5640.0	H	-	-	-77.95	4.89	33.94	-61.31	-13.00	-48.31
7520.0	H	-	-	-79.63	8.82	36.19	-59.07	-13.00	-46.07

Table 7-38. Antenna 2b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	H	-	-	-76.78	3.44	33.66	-61.60	-13.00	-48.60
5722.8	H	-	-	-78.09	5.84	34.75	-60.51	-13.00	-47.51
7630.4	H	-	-	-79.19	9.02	36.83	-58.43	-13.00	-45.43

Table 7-39. Antenna 2b Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.3 Antenna 3a – Radiated Spurious Emission Measurement LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	128	158	-65.56	3.31	44.75	-50.51	-13.00	-37.51
5580.0	H	-	-	-66.69	5.12	45.43	-49.83	-13.00	-36.83
7440.0	H	-	-	-68.30	8.59	47.29	-47.97	-13.00	-34.97
9300.0	H	-	-	-71.04	11.57	47.53	-47.72	-13.00	-34.72

Table 7-40. Antenna 3a Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	307	203	-75.17	2.90	34.73	-60.53	-13.00	-47.53
5647.5	H	-	-	-77.59	4.91	34.32	-60.94	-13.00	-47.94
7530.0	H	-	-	-79.60	8.95	36.35	-58.91	-13.00	-45.91
9412.5	H	-	-	-82.03	12.23	37.20	-58.06	-13.00	-45.06

Table 7-41. Antenna 3a Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	H	102	66	-75.61	3.50	34.89	-60.37	-13.00	-47.37
5715.0	H	-	-	-77.71	5.82	35.11	-60.14	-13.00	-47.14
7620.0	H	-	-	-79.67	9.00	36.33	-58.93	-13.00	-45.93
9525.0	H	-	-	-81.88	12.42	37.54	-57.72	-13.00	-44.72

Table 7-42. Antenna 3a Radiated Spurious Data (LTE Band 25/2 – High Channel)

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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3740.0	H	300	240	-76.90	3.54	33.64	-61.62	-13.00	-48.62
5610.0	H	-	-	-80.40	7.44	34.04	-61.22	-13.00	-48.22
7480.0	H	-	-	-80.68	8.40	34.72	-60.54	-13.00	-47.54
9350.0	H	-	-	-80.56	10.33	36.77	-58.48	-13.00	-45.48

Table 7-43. Antenna 3a Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1/108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	-	-	-78.71	3.59	31.88	-63.38	-13.00	-50.38
5647.5	H	-	-	-80.63	7.50	33.87	-61.39	-13.00	-48.39
7530.0	H	-	-	-80.57	8.60	35.03	-60.23	-13.00	-47.23

Table 7-44. Antenna 3a Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	H	292	243	-73.10	3.66	37.56	-57.70	-13.00	-44.70
5685.0	H	-	-	-80.15	6.92	33.77	-61.49	-13.00	-48.49
7580.0	H	-	-	-81.14	9.18	35.04	-60.22	-13.00	-47.22
9475.0	H	-	-	-80.52	10.65	37.13	-58.13	-13.00	-45.13

Table 7-45. Antenna 3a Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	H	-	-	-76.62	2.79	33.17	-62.09	-13.00	-49.09
5557.2	H	-	-	-78.02	5.53	34.51	-60.75	-13.00	-47.75
7409.6	H	-	-	-79.56	8.74	36.18	-59.08	-13.00	-46.08

Table 7-46. Antenna 3a Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	272	168	-74.39	2.88	35.49	-59.76	-13.00	-46.76
5640.0	H	-	-	-77.82	4.89	34.07	-61.18	-13.00	-48.18
7520.0	H	-	-	-79.58	8.82	36.24	-59.02	-13.00	-46.02
9400.0	H	-	-	-82.10	12.31	37.21	-58.05	-13.00	-45.05

Table 7-47. Antenna 3a Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	V	267	168	-75.44	3.44	35.00	-60.26	-13.00	-47.26
5722.8	H	-	-	-77.91	5.84	34.93	-60.33	-13.00	-47.33
7630.4	H	-	-	-79.65	9.02	36.37	-58.89	-13.00	-45.89
9538.0	H	-	-	-82.23	12.38	37.15	-58.11	-13.00	-45.11

Table 7-48. Antenna 3a Radiated Spurious Data (WCDMA PCS – High Channel)

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7.7.4 Antenna 1b – Radiated Spurious Emission Measurement LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	262	247	-75.00	3.31	35.31	-59.95	-13.00	-46.95
5580.0	H	-	-	-77.74	5.12	34.38	-60.88	-13.00	-47.88
7440.0	H	-	-	-79.67	8.59	35.92	-59.34	-13.00	-46.34
9300.0	H	-	-	-81.51	11.57	37.06	-58.19	-13.00	-45.19

Table 7-49. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	105	157	-73.36	2.90	36.54	-58.72	-13.00	-45.72
5647.5	H	-	-	-77.35	4.91	34.56	-60.70	-13.00	-47.70
7530.0	H	-	-	-79.63	8.95	36.32	-58.94	-13.00	-45.94
9412.5	H	-	-	-82.20	12.23	37.03	-58.23	-13.00	-45.23

Table 7-50. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	H	134	159	-74.42	3.50	36.08	-59.18	-13.00	-46.18
5715.0	H	-	-	-77.88	5.82	34.94	-60.31	-13.00	-47.31
7620.0	H	-	-	-79.67	9.00	36.33	-58.93	-13.00	-45.93
9525.0	H	-	-	-81.83	12.42	37.59	-57.67	-13.00	-44.67

Table 7-51. Antenna 1b Radiated Spurious Data (LTE Band 25/2 – High Channel)

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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBpV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3740.0	H	263	240	-78.25	3.54	32.29	-62.97	-13.00	-49.97
5610.0	V	-	-	-80.50	7.44	33.94	-61.32	-13.00	-48.32
7480.0	V	-	-	-80.44	8.40	34.96	-60.30	-13.00	-47.30
9350.0	V	-	-	-80.46	10.33	36.87	-58.38	-13.00	-45.38

Table 7-52. Antenna 1b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1/108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBpV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	259	237	-78.31	3.59	32.28	-62.98	-13.00	-49.98
5647.5	V	-	-	-80.71	7.50	33.79	-61.47	-13.00	-48.47
7530.0	V	-	-	-80.54	8.60	35.06	-60.20	-13.00	-47.20
9412.5	V	-	-	-80.23	10.08	36.85	-58.40	-13.00	-45.40

Table 7-53. Antenna 1b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBpV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	H	329	240	-77.57	3.66	33.09	-62.17	-13.00	-49.17
5685.0	V	-	-	-80.07	6.92	33.85	-61.41	-13.00	-48.41
7580.0	V	-	-	-80.84	9.18	35.34	-59.92	-13.00	-46.92
9475.0	V	-	-	-80.37	10.65	37.28	-57.98	-13.00	-44.98

Table 7-54. Antenna 1b Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	V	-	-	-76.84	3.44	33.60	-61.66	-13.00	-48.66
5557.2	V	-	-	-78.05	5.84	34.79	-60.47	-13.00	-47.47
7409.6	V	-	-	-79.63	9.02	36.39	-58.87	-13.00	-45.87

Table 7-55. Antenna 1b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-76.57	2.88	33.31	-61.94	-13.00	-48.94
5640.0	V	-	-	-77.70	4.89	34.19	-61.06	-13.00	-48.06
7520.0	V	-	-	-79.63	8.82	36.19	-59.07	-13.00	-46.07

Table 7-56. Antenna 1b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	V	-	-	-76.61	3.44	33.83	-61.43	-13.00	-48.43
5722.8	V	-	-	-78.21	5.84	34.63	-60.63	-13.00	-47.63
7630.4	V	-	-	-79.81	9.02	36.21	-59.05	-13.00	-46.05

Table 7-57. Antenna 1b Radiated Spurious Data (WCDMA PCS – High Channel)

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7.8 Frequency Stability / Temperature Variation

\$2.1055, \$24.235

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- 7.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

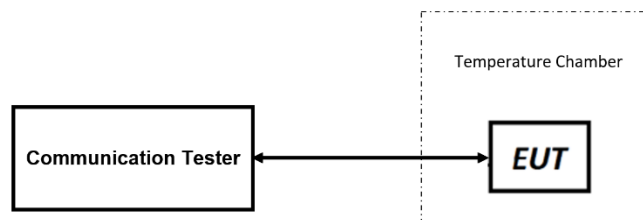



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

LTE Band 25/2							
			Low Channel Frequency (Hz):		1,852,400,000		
			High Channel Frequency (Hz):		1,907,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,852,400,029	1,907,600,038	16	20	0.00000105
		- 20	1,852,400,032	1,907,600,037	19	19	0.00000103
		- 10	1,852,400,029	1,907,600,038	16	20	0.00000105
		0	1,852,400,032	1,907,600,038	19	20	0.00000105
		+ 10	1,852,400,032	1,907,600,035	19	17	0.00000103
		+ 20 (Ref)	1,852,400,013	1,907,600,018	0	0	0.00000000
		+ 30	1,852,400,028	1,907,600,038	15	20	0.00000105
		+ 40	1,852,400,027	1,907,600,033	14	15	0.00000079
		+ 50	1,852,400,032	1,907,600,035	19	17	0.00000103
Battery Endpoint	3.23	+ 20	1,852,400,027	1,907,600,036	14	18	0.00000094

Table 7-58. LTE Band 25/2 Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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Frequency Stability / Temperature Variation

NR Band n25/2							
			Low Channel Frequency (Hz):		1,870,000,000		
			High Channel Frequency (Hz):		1,895,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,870,000,159	1,895,000,153	89	78	0.00000476
		- 20	1,870,000,140	1,895,000,156	70	81	0.00000427
		- 10	1,870,000,143	1,895,000,165	73	90	0.00000475
		0	1,870,000,146	1,895,000,161	76	86	0.00000454
		+ 10	1,870,000,152	1,895,000,157	82	82	0.00000439
		+ 20 (Ref)	1,870,000,070	1,895,000,075	0	0	0.00000000
		+ 30	1,870,000,149	1,895,000,150	79	75	0.00000422
		+ 40	1,870,000,141	1,895,000,165	71	90	0.00000475
		+ 50	1,870,000,145	1,895,000,147	75	72	0.00000401
Battery Endpoint	3.23	+ 20	1,870,000,150	1,895,000,148	80	73	0.00000432

Table 7-59. NR Band n25/2 Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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Frequency Stability / Temperature Variation

WCDMA PCS							
			Low Channel Frequency (Hz):		1,852,400,000		
			High Channel Frequency (Hz):		1,907,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,852,400,027	1,907,600,033	15	18	0.00000094
		- 20	1,852,400,025	1,907,600,033	13	18	0.00000094
		- 10	1,852,400,024	1,907,600,031	12	16	0.00000084
		0	1,852,400,029	1,907,600,035	17	20	0.00000105
		+ 10	1,852,400,031	1,907,600,034	19	19	0.00000103
		+ 20 (Ref)	1,852,400,012	1,907,600,015	0	0	0.00000000
		+ 30	1,852,400,027	1,907,600,035	15	20	0.00000105
		+ 40	1,852,400,025	1,907,600,033	13	18	0.00000094
		+ 50	1,852,400,024	1,907,600,027	12	12	0.00000065
Battery Endpoint	3.23	+ 20	1,852,400,031	1,907,600,029	19	14	0.00000103

Table 7-60. WCDMA PCS Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested


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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2757** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: BCGA2757	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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