

Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	RB Size	RB Offset	A-MPR [dB]	Modulation	MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]			
1	01	312	530	5	39675	2498.5	1	0	3	QPSK	0	25.42	23.0	2.42			
16-QAM										1	25.06	22.0	3.06				
64-QAM										2	24.05	21.0	3.05				
2				5	39675	2498.5	1	9	0	QPSK	0	27.00	26.0	1.00			
16-QAM										1	26.75	25.0	1.75				
64-QAM										2	25.87	24.0	1.87				
3				10	39700	2501	1	0	5	QPSK	0	24.39	21.0	3.39			
16-QAM										1	23.76	20.0	3.76				
64-QAM										2	22.62	19.0	3.62				
4				10	39700	2501	20	0	2	QPSK	0	25.24	24.0	1.24			
16-QAM										1	24.28	23.0	1.28				
64-QAM										2	23.30	22.0	1.30				
5				10	39700	2501	50	0	3	QPSK	0	24.26	23.0	1.26			
16-QAM										1	23.22	22.0	1.22				
64-QAM										2	22.24	21.0	1.24				
6				10	39700	2501	25	20	1	QPSK	0	25.24	25.0	0.24			
16-QAM										1	24.26	24.0	0.26				
64-QAM										2	23.26	23.0	0.26				
7				10	39700	2501	1	36	0	QPSK	0	26.98	26.0	0.98			
16-QAM										1	26.65	25.0	1.65				
64-QAM										2	25.80	24.0	1.80				
8				15	39725	2503.5	1	0	5	QPSK	0	24.38	21.0	3.38			
16-QAM										1	23.76	20.0	3.76				
64-QAM										2	22.83	19.0	3.83				
9				15	39725	2503.5	20	0	2	QPSK	0	25.21	24.0	1.21			
16-QAM										1	24.22	23.0	1.22				
64-QAM										2	23.19	22.0	1.19				
10				15	39725	2503.5	75	0	4	QPSK	0	23.26	22.0	1.26			
16-QAM										1	22.26	21.0	1.26				
64-QAM										2	21.24	20.0	1.24				
11				15	39725	2503.5	50	15	3	QPSK	0	25.27	23.0	2.27			
16-QAM										1	24.28	22.0	2.28				
64-QAM										2	23.25	21.0	2.25				
12				15	39725	2503.5	1	60	0	QPSK	0	27.00	26.0	1.00			
16-QAM										1	26.59	25.0	1.59				
64-QAM										2	25.74	24.0	1.74				
13				20	39750	2506	1	0	5	QPSK	0	24.14	21.0	3.14			
16-QAM										1	23.72	20.0	3.72				
64-QAM										2	22.83	19.0	3.83				
14				20	39750	2506	20	0	2	QPSK	0	25.18	24.0	1.18			
16-QAM										1	24.20	23.0	1.20				
64-QAM										2	23.17	22.0	1.17				
15				20	39750	2506	100	0	4	QPSK	0	23.21	22.0	1.21			
16-QAM										1	22.20	21.0	1.20				
64-QAM										2	21.14	20.0	1.14				
16				20	39750	2506	75	24	3	QPSK	0	25.13	23.0	2.13			
16-QAM										1	24.24	22.0	2.24				
64-QAM										2	23.16	21.0	2.16				
17				20	39750	2506	1	77	0	QPSK	0	27.00	26.0	1.00			
16-QAM										1	26.61	25.0	1.61				
64-QAM										2	25.64	24.0	1.64				
18				01	311	490	5	39675	2498.5	1	0	3	QPSK	0	25.39	23.0	2.39
16-QAM													1	24.98	22.0	2.98	
64-QAM													2	23.99	21.0	2.99	
19				01	001	01	5	39675	2498.5	1	0	0	QPSK	0	27.00	26.0	1.00
16-QAM													1	26.86	25.0	1.86	
64-QAM													2	25.94	24.0	1.94	

Table 7-2. A-MPR Conducted Power Measurements

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7.6 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

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 ERP or 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.

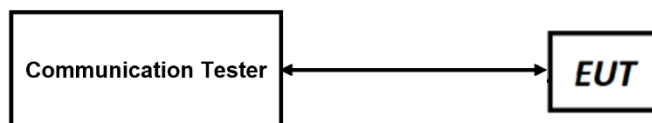


Figure 7-5. EIRP Measurement Setup

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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. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
5. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
6. For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
7. For ULCA, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.

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7.6.1 Antenna C – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	1.40	1 / 0	21.75	23.15	0.207	23.98	-0.83
		2310.0	1.40	1 / 24	21.80	23.20	0.209	23.98	-0.78
		2312.5	1.40	1 / 0	21.79	23.19	0.208	23.98	-0.79
10 MHz	16-QAM	2310.0	1.40	1 / 12	21.27	22.67	0.185	23.98	-1.31
	64-QAM	2312.5	1.40	1 / 24	20.40	21.80	0.151	23.98	-2.18
	QPSK	2310.0	1.40	1 / 25	21.80	23.20	0.209	23.98	-0.78
	16-QAM	2310.0	1.40	1 / 0	21.43	22.83	0.192	23.98	-1.15
	64-QAM	2310.0	1.40	1 / 25	20.29	21.69	0.148	23.98	-2.29

Table 7-3. Antenna C EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	1.70	1 / 12	25.40	27.10	0.513	33.01	-5.91
		2535.0	1.70	1 / 12	25.45	27.15	0.519	33.01	-5.86
		2567.5	1.70	1 / 12	25.20	26.90	0.490	33.01	-6.11
	16-QAM	2535.0	1.70	1 / 12	24.79	26.49	0.446	33.01	-6.52
	64-QAM	2535.0	1.70	1 / 24	23.86	25.56	0.360	33.01	-7.45
10 MHz	QPSK	2505.0	1.70	1 / 49	25.32	27.02	0.504	33.01	-5.99
		2535.0	1.70	1 / 25	25.24	26.94	0.494	33.01	-6.07
		2565.0	1.70	1 / 25	25.16	26.86	0.485	33.01	-6.15
	16-QAM	2535.0	1.70	1 / 25	24.79	26.49	0.446	33.01	-6.52
	64-QAM	2505.0	1.70	1 / 49	23.63	25.33	0.341	33.01	-7.68
15 MHz	QPSK	2507.5	1.70	1 / 0	25.50	27.20	0.525	33.01	-5.81
		2535.0	1.70	1 / 37	25.36	27.06	0.508	33.01	-5.95
		2562.5	1.70	1 / 37	25.21	26.91	0.491	33.01	-6.10
	16-QAM	2535.0	1.70	1 / 0	24.76	26.46	0.443	33.01	-6.55
	64-QAM	2507.5	1.70	1 / 74	23.75	25.45	0.351	33.01	-7.56
20 MHz	QPSK	2510.0	1.70	1 / 99	25.20	26.90	0.490	33.01	-6.11
		2535.0	1.70	1 / 0	25.11	26.81	0.480	33.01	-6.20
		2560.0	1.70	1 / 0	25.31	27.01	0.502	33.01	-6.00
	16-QAM	2535.0	1.70	1 / 0	24.66	26.36	0.433	33.01	-6.65
	64-QAM	2535.0	1.70	1 / 99	23.78	25.48	0.353	33.01	-7.53

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

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LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.70	1 / 12	26.80	28.50	0.708	33.01	-4.51
		2593.0	1.70	1 / 12	26.48	28.18	0.658	33.01	-4.83
		2687.5	1.70	1 / 24	26.56	28.26	0.670	33.01	-4.75
	16-QAM	2498.5	1.70	1 / 12	26.48	28.18	0.658	33.01	-4.83
	64-QAM	2498.5	1.70	1 / 12	25.54	27.24	0.530	33.01	-5.77
10 MHz	QPSK	2501.0	1.70	1 / 25	26.98	28.68	0.738	33.01	-4.33
		2593.0	1.70	1 / 49	26.77	28.47	0.703	33.01	-4.54
		2685.0	1.70	1 / 49	26.55	28.25	0.668	33.01	-4.76
	16-QAM	2501.0	1.70	1 / 49	26.50	28.20	0.661	33.01	-4.81
	64-QAM	2501.0	1.70	1 / 49	25.65	27.35	0.543	33.01	-5.66
15 MHz	QPSK	2503.5	1.70	1 / 37	26.99	28.69	0.740	33.01	-4.32
		2593.0	1.70	1 / 0	26.83	28.53	0.713	33.01	-4.48
		2682.5	1.70	1 / 37	26.51	28.21	0.662	33.01	-4.80
	16-QAM	2503.5	1.70	1 / 0	26.36	28.06	0.640	33.01	-4.95
	64-QAM	2503.5	1.70	1 / 74	25.51	27.21	0.526	33.01	-5.80
20 MHz	QPSK	2506.0	1.70	1 / 99	26.95	28.65	0.733	33.01	-4.36
		2593.0	1.70	1 / 99	26.79	28.49	0.706	33.01	-4.52
		2680.0	1.70	1 / 50	26.50	28.20	0.661	33.01	-4.81
	16-QAM	2506.0	1.70	1 / 99	26.31	28.01	0.632	33.01	-5.00
	64-QAM	2506.0	1.70	1 / 99	25.65	27.35	0.543	33.01	-5.66

Table 7-5. Antenna C EIRP Data (LTE Band 41(PC2))

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	1.70	1 / 0	25.18	26.88	0.488	33.01	-6.13
		2593.0	1.70	1 / 12	25.23	26.93	0.493	33.01	-6.08
		2687.5	1.70	1 / 12	24.91	26.61	0.458	33.01	-6.40
	16-QAM	2498.5	1.70	1 / 24	24.47	26.17	0.414	33.01	-6.84
	64-QAM	2498.5	1.70	1 / 24	23.81	25.51	0.356	33.01	-7.50
10 MHz	QPSK	2501.0	1.70	1 / 25	25.47	27.17	0.521	33.01	-5.84
		2593.0	1.70	1 / 49	25.26	26.96	0.497	33.01	-6.05
		2685.0	1.70	1 / 49	25.04	26.74	0.472	33.01	-6.27
	16-QAM	2501.0	1.70	1 / 49	24.47	26.17	0.414	33.01	-6.84
	64-QAM	2685.0	1.70	1 / 49	23.50	25.20	0.331	33.01	-7.81
15 MHz	QPSK	2503.5	1.70	1 / 37	25.50	27.20	0.525	33.01	-5.81
		2593.0	1.70	1 / 0	25.34	27.04	0.506	33.01	-5.97
		2682.5	1.70	1 / 37	25.02	26.72	0.470	33.01	-6.29
	16-QAM	2503.5	1.70	1 / 0	24.35	26.05	0.403	33.01	-6.96
	64-QAM	2593.0	1.70	1 / 74	23.53	25.23	0.333	33.01	-7.78
20 MHz	QPSK	2506.0	1.70	1 / 99	25.50	27.20	0.525	33.01	-5.81
		2593.0	1.70	1 / 99	25.34	27.04	0.506	33.01	-5.97
		2680.0	1.70	1 / 50	25.05	26.75	0.473	33.01	-6.26
	16-QAM	2506.0	1.70	1 / 99	24.56	26.26	0.423	33.01	-6.75
	64-QAM	2506.0	1.70	1 / 99	23.58	25.28	0.337	33.01	-7.73

Table 7-6. Antenna C EIRP Data (LTE Band 41(PC3))

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ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]										
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset								
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.00	1.70	26.70	0.468	33.01	-6.31								
				21100	2535.0	1	99		21298	2554.8	1	0	25.00	1.70	26.70	0.468	33.01	-6.31								
				21350	2560.0	1	0		21152	2540.2	1	99	25.00	1.70	26.70	0.468	33.01	-6.31								
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	23.72	1.70	25.42	0.348	33.01	-7.59								
				16-QAM	20850	2510	100		0	16-QAM	21048	2529.8							100	0	22.00	1.70	23.70	0.234	33.01	-9.31
				64-QAM	20850	2510	100		0	64-QAM	21048	2529.8							100	0	21.90	1.70	23.60	0.229	33.01	-9.41
			QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.00	1.70	26.70	0.468	33.01	-6.31								
				21100	2535.0	1	99		21298	2554.8	1	0							25.00	1.70	26.70	0.468	33.01	-6.31		

Table 7-7. Antenna C EIRP Data (ULCA LTE Band 7)

ULCA - Band 41

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]			
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset	
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.00	1.70	26.70	0.468	33.01	-6.31	
				40620	2593.0	1	99		40818	2612.8	1	0	24.97	1.70	26.67	0.465	33.01	-6.34	
				41490	2680.0	1	0		41292	2660.2	1	99	24.91	1.70	26.61	0.458	33.01	-6.40	
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	24.00	1.70	25.70	0.372	33.01	-7.31	
				16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	23.16	1.70	24.86	0.306	33.01	-8.15
				64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	23.09	1.70	24.79	0.301	33.01	-8.22
			QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.00	1.70	26.70	0.468	33.01	-6.31	
				40620	2593.0	1	99		40818	2612.8	1	0	24.97	1.70	26.67	0.465	33.01	-6.34	
				41490	2680.0	1	0		41292	2660.2	1	99	24.91	1.70	26.61	0.458	33.01	-6.40	
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	24.00	1.70	25.70	0.372	33.01	-7.31	
				16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	23.16	1.70	24.86	0.306	33.01	-8.15
				64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	23.09	1.70	24.79	0.301	33.01	-8.22

Table 7-8. Antenna C EIRP Data (ULCA LTE Band 41)

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7.6.2 Antenna D – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2307.5	1.70	1 / 24	21.30	23.00	0.200	23.98	-0.98
		2310.0	1.70	1 / 24	21.27	22.97	0.198	23.98	-1.01
		2312.5	1.70	1 / 12	21.11	22.81	0.191	23.98	-1.17
	16-QAM	2307.5	1.70	1 / 24	20.50	22.20	0.166	23.98	-1.78
	64-QAM	2312.5	1.70	1 / 12	19.61	21.31	0.135	23.98	-2.67
10 MHz	QPSK	2310.0	1.70	1 / 25	21.30	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	1.70	1 / 25	20.60	22.30	0.170	23.98	-1.68
	64-QAM	2310.0	1.70	1 / 25	19.82	21.52	0.142	23.98	-2.46

Table 7-9. Antenna D EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	2.00	1 / 12	23.20	25.20	0.331	33.01	-7.81
		2535.0	2.00	1 / 12	23.25	25.25	0.335	33.01	-7.76
		2567.5	2.00	1 / 12	23.23	25.23	0.333	33.01	-7.78
	16-QAM	2535.0	2.00	1 / 24	22.71	24.71	0.296	33.01	-8.30
	64-QAM	2535.0	2.00	1 / 24	21.67	23.67	0.233	33.01	-9.34
10 MHz	QPSK	2505.0	2.00	1 / 49	23.25	25.25	0.335	33.01	-7.76
		2535.0	2.00	1 / 49	23.22	25.22	0.333	33.01	-7.79
		2565.0	2.00	1 / 25	23.20	25.20	0.331	33.01	-7.81
	16-QAM	2505.0	2.00	1 / 0	22.62	24.62	0.290	33.01	-8.39
	64-QAM	2505.0	2.00	1 / 49	21.57	23.57	0.228	33.01	-9.44
15 MHz	QPSK	2507.5	2.00	1 / 74	23.25	25.25	0.335	33.01	-7.76
		2535.0	2.00	1 / 0	23.22	25.22	0.333	33.01	-7.79
		2562.5	2.00	1 / 0	23.18	25.18	0.330	33.01	-7.83
	16-QAM	2507.5	2.00	1 / 74	22.69	24.69	0.294	33.01	-8.32
	64-QAM	2507.5	2.00	1 / 0	21.68	23.68	0.233	33.01	-9.33
20 MHz	QPSK	2510.0	2.00	1 / 99	23.25	25.25	0.335	33.01	-7.76
		2535.0	2.00	1 / 99	23.22	25.22	0.333	33.01	-7.79
		2560.0	2.00	1 / 0	23.19	25.19	0.330	33.01	-7.82
	16-QAM	2560.0	2.00	1 / 0	22.63	24.63	0.290	33.01	-8.38
	64-QAM	2535.0	2.00	1 / 0	21.52	23.52	0.225	33.01	-9.49

Table 7-10. Antenna D EIRP Data (LTE Band 7)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.00	1 / 0	24.43	26.43	0.440	33.01	-6.58
		2593.0	2.00	1 / 12	24.48	26.48	0.445	33.01	-6.53
		2687.5	2.00	1 / 12	24.16	26.16	0.413	33.01	-6.85
	16-QAM	2498.5	2.00	1 / 24	24.24	26.24	0.421	33.01	-6.77
	64-QAM	2498.5	2.00	1 / 0	23.38	25.38	0.345	33.01	-7.63
10 MHz	QPSK	2501.0	2.00	1 / 25	24.72	26.72	0.470	33.01	-6.29
		2593.0	2.00	1 / 49	24.51	26.51	0.448	33.01	-6.50
		2685.0	2.00	1 / 49	24.29	26.29	0.426	33.01	-6.72
	16-QAM	2501.0	2.00	1 / 49	24.24	26.24	0.421	33.01	-6.77
	64-QAM	2501.0	2.00	1 / 49	23.39	25.39	0.346	33.01	-7.62
15 MHz	QPSK	2503.5	2.00	1 / 37	24.75	26.75	0.473	33.01	-6.26
		2593.0	2.00	1 / 0	24.59	26.59	0.456	33.01	-6.42
		2682.5	2.00	1 / 37	24.27	26.27	0.424	33.01	-6.74
	16-QAM	2503.5	2.00	1 / 0	24.12	26.12	0.409	33.01	-6.89
	64-QAM	2503.5	2.00	1 / 74	23.27	25.27	0.337	33.01	-7.74
20 MHz	QPSK	2506.0	2.00	1 / 99	24.75	26.75	0.473	33.01	-6.26
		2593.0	2.00	1 / 99	24.59	26.59	0.456	33.01	-6.42
		2680.0	2.00	1 / 50	24.30	26.30	0.427	33.01	-6.71
	16-QAM	2506.0	2.00	1 / 99	24.11	26.11	0.408	33.01	-6.90
	64-QAM	2506.0	2.00	1 / 99	23.45	25.45	0.351	33.01	-7.56

Table 7-11. Antenna D EIRP Data (LTE Band 41(PC2))

LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	2.00	1 / 12	23.25	25.25	0.335	33.01	-7.76
		2593.0	2.00	1 / 12	22.91	24.91	0.310	33.01	-8.10
		2687.5	2.00	1 / 24	22.88	24.88	0.308	33.01	-8.13
	16-QAM	2498.5	2.00	1 / 24	22.41	24.41	0.276	33.01	-8.60
	64-QAM	2498.5	2.00	1 / 0	21.59	23.59	0.229	33.01	-9.42
10 MHz	QPSK	2501.0	2.00	1 / 25	23.23	25.23	0.333	33.01	-7.78
		2593.0	2.00	1 / 25	22.91	24.91	0.310	33.01	-8.10
		2685.0	2.00	1 / 49	22.92	24.92	0.310	33.01	-8.09
	16-QAM	2501.0	2.00	1 / 25	22.31	24.31	0.270	33.01	-8.70
	64-QAM	2501.0	2.00	1 / 0	21.41	23.41	0.219	33.01	-9.60
15 MHz	QPSK	2503.5	2.00	1 / 37	23.25	25.25	0.335	33.01	-7.76
		2593.0	2.00	1 / 37	22.96	24.96	0.313	33.01	-8.05
		2682.5	2.00	1 / 0	22.89	24.89	0.308	33.01	-8.12
	16-QAM	2503.5	2.00	1 / 37	22.14	24.14	0.259	33.01	-8.87
	64-QAM	2503.5	2.00	1 / 37	21.45	23.45	0.221	33.01	-9.56
20 MHz	QPSK	2506.0	2.00	1 / 50	23.25	25.25	0.335	33.01	-7.76
		2593.0	2.00	1 / 99	23.05	25.05	0.320	33.01	-7.96
		2680.0	2.00	1 / 50	23.13	25.13	0.326	33.01	-7.88
	16-QAM	2506.0	2.00	1 / 50	22.23	24.23	0.265	33.01	-8.78
	64-QAM	2506.0	2.00	1 / 99	21.40	23.40	0.219	33.01	-9.61

Table 7-12. Antenna D EIRP Data (LTE Band 41(PC3))

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ULCA - Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]			
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset	
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	22.72	2.00	24.72	0.296	33.01	-8.29	
				21100	2535.0	1	99		21298	2554.8	1	0	22.71	2.00	24.71	0.296	33.01	-8.30	
				21350	2560.0	1	0		21152	2540.2	1	99	22.70	2.00	24.70	0.295	33.01	-8.31	
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	20.68	2.00	22.68	0.185	33.01	-10.33	
				16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	19.63	2.00	21.63	0.146	33.01	-11.38
				64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	19.59	2.00	21.59	0.144	33.01	-11.42

Table 7-13. Antenna D EIRP Data (ULCA LTE Band 7)

ULCA - Band 41

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]			
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset	
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	22.67	2.00	24.67	0.293	33.01	-8.34	
				40620	2593.0	1	99		40818	2612.8	1	0	22.74	2.00	24.74	0.298	33.01	-8.27	
				41490	2680.0	1	0		41292	2660.2	1	99	22.75	2.00	24.75	0.299	33.01	-8.26	
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	21.70	2.00	23.70	0.234	33.01	-9.31	
				16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	20.88	2.00	22.88	0.194	33.01	-10.13
					64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	20.82	2.00	22.82	0.191	33.01

Table 7-14. Antenna D EIRP Data (ULCA LTE Band 41)

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7.7 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

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 broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed 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.

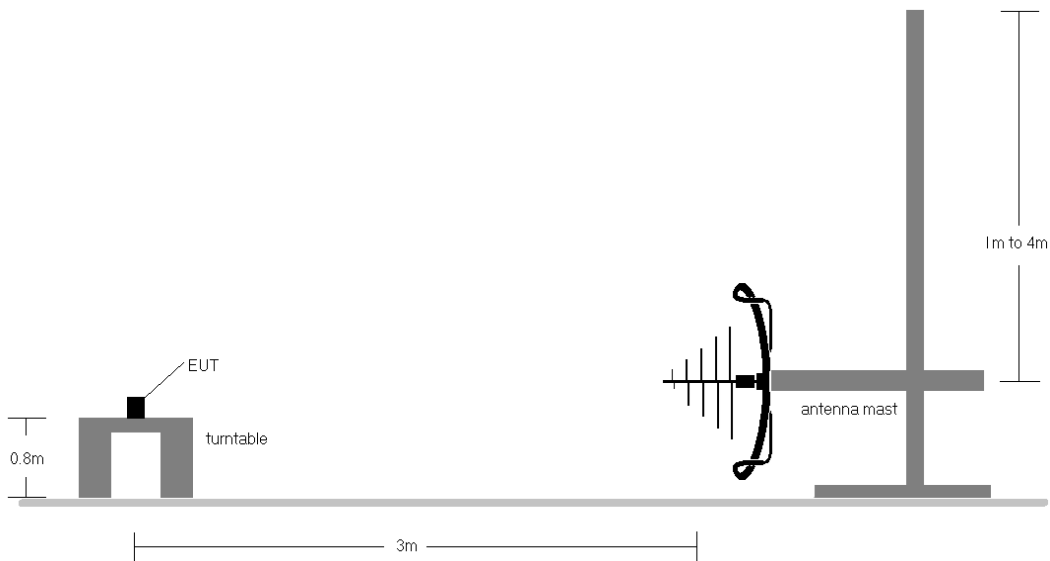


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

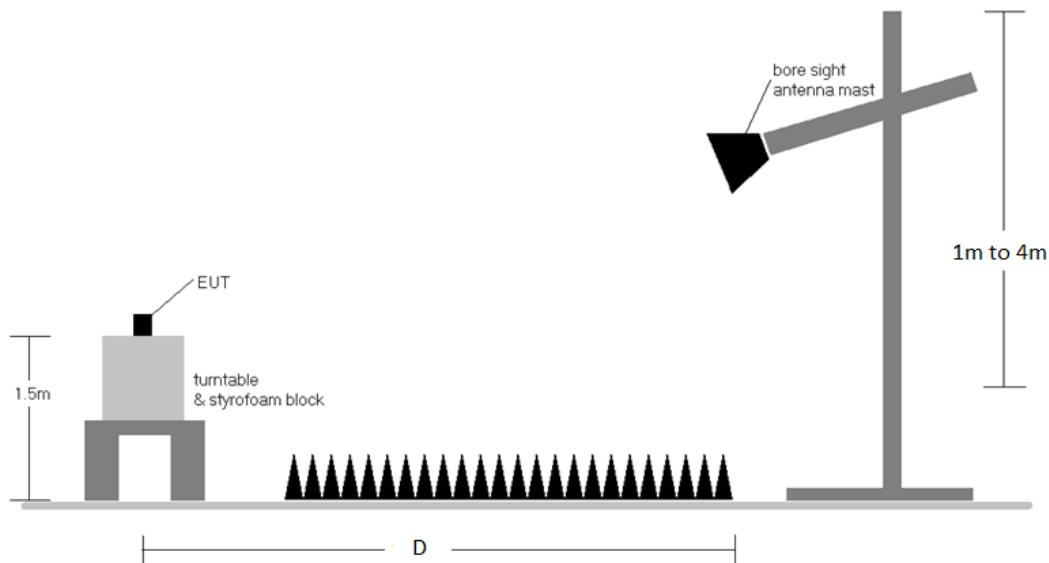


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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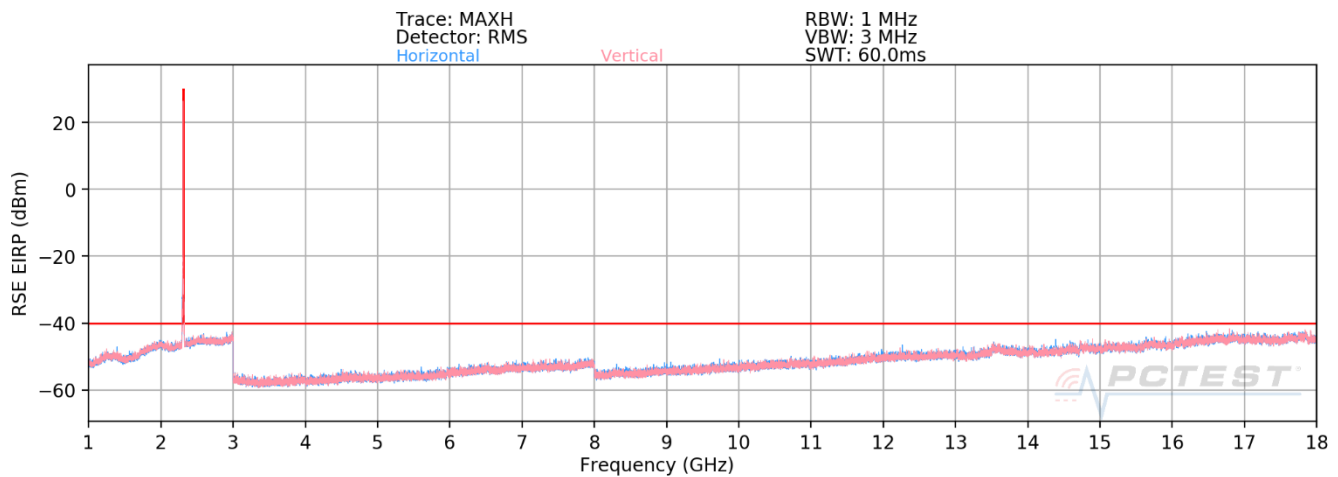
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. 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.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. 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.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
8. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
9. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 3.

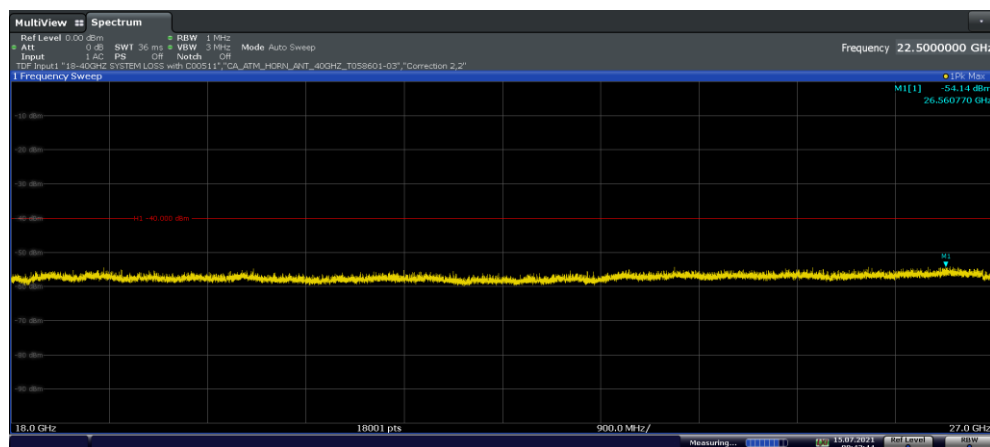
FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.7.1 Antenna C Radiated Spurious Emission Measurements

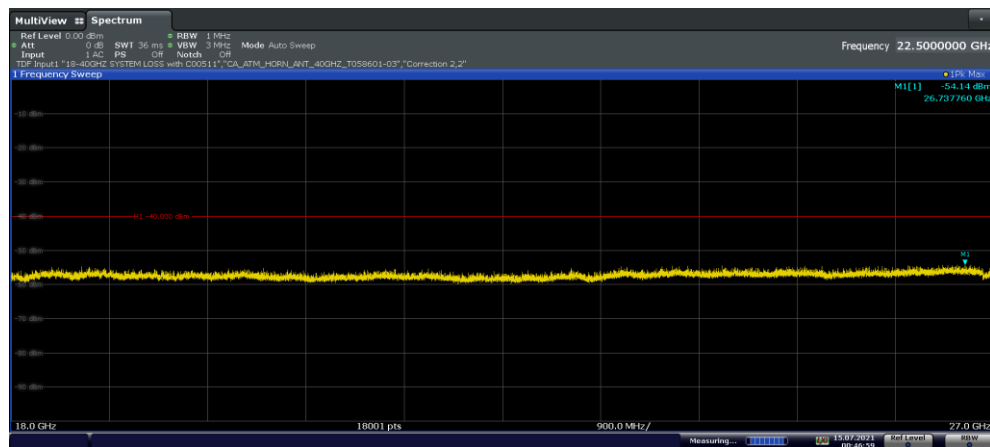
LTE Band 30



Plot 7-98. Antenna C Radiated Spurious Emission 1GHz – 18GHz (LTE Band 30)



Plot 7-99. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. H)



Plot 7-100. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. V)

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Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								
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]
4615.0	H	-	-	-80.41	7.10	33.69	-61.57	-40.00	-21.57
6922.5	H	-	-	-81.41	9.80	35.39	-59.87	-40.00	-19.87
9230.0	H	-	-	-83.58	12.06	35.48	-59.78	-40.00	-19.78

Table 7-15. Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	2310.0								
RB / Offset:	1 / 25								
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]
4620.0	H	-	-	-80.44	7.06	33.62	-61.64	-40.00	-21.64
6930.0	H	-	-	-81.72	9.64	34.92	-60.34	-40.00	-20.34
9240.0	H	-	-	-83.78	12.23	35.45	-59.80	-40.00	-19.80

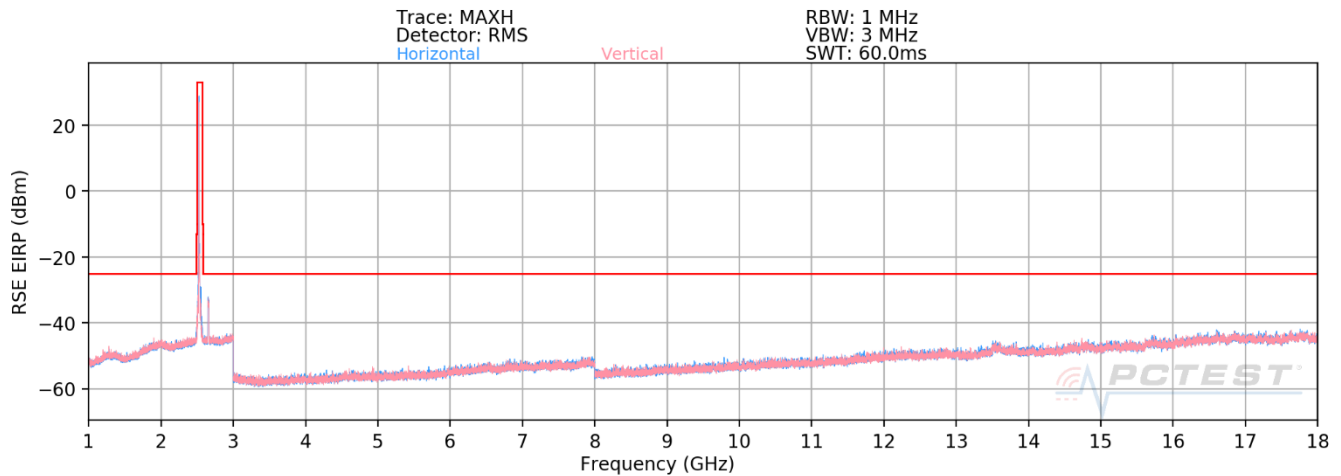
Table 7-16. Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								
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]
4625.00	H	-	-	-80.64	7.12	33.48	-61.78	-40.00	-21.78
6937.50	H	-	-	-81.71	9.65	34.94	-60.32	-40.00	-20.32
9250.00	H	-	-	-83.72	12.28	35.56	-59.70	-40.00	-19.70

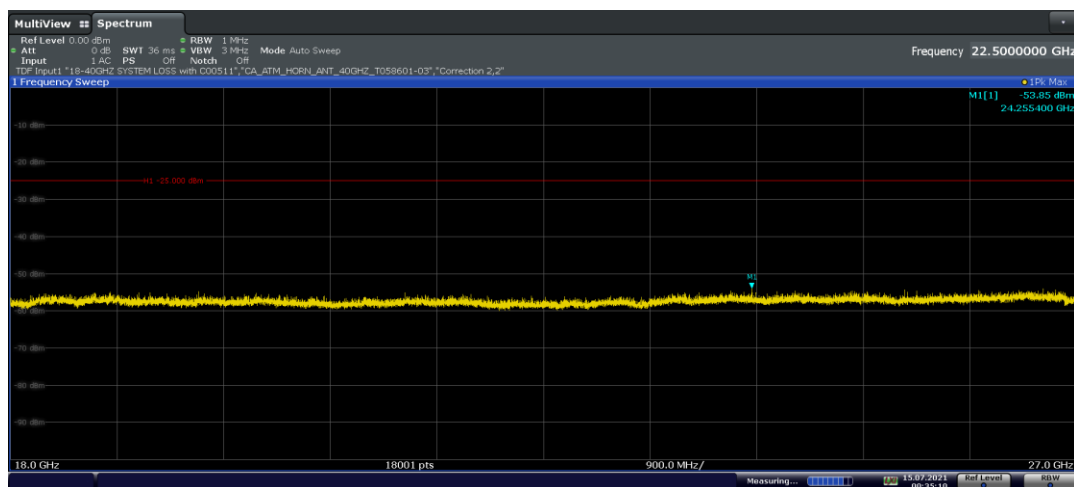
Table 7-17. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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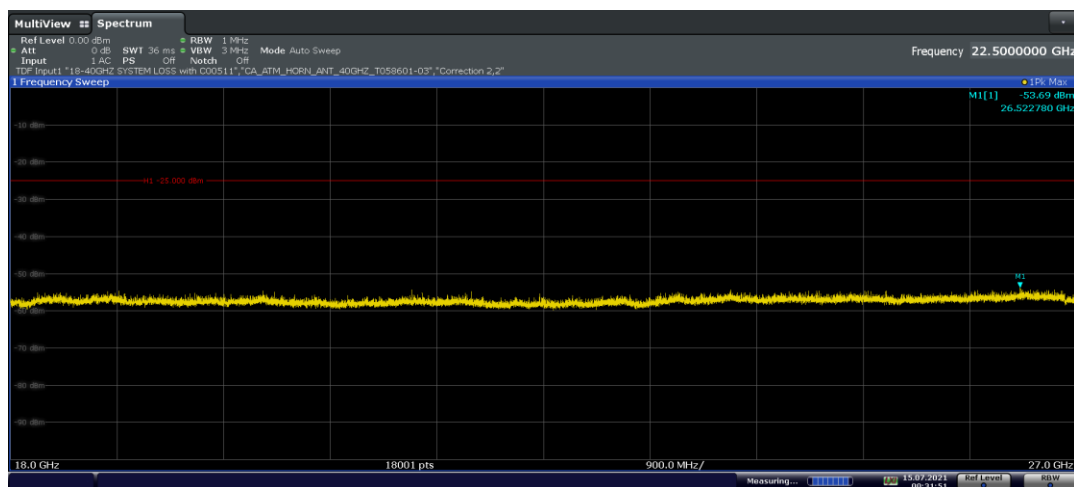
LTE Band 7



Plot 7-101. Antenna C Radiated Spurious Emission 1GHz – 18GHz (LTE Band 7)



Plot 7-102. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. H)



Plot 7-103. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. V)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Bandwidth (MHz):	20								
Frequency (MHz):	2510.0								
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]
5020.0	H	-	-	-81.11	7.68	33.57	-61.69	-25.00	-36.69
7530.0	H	-	-	-82.19	10.81	35.62	-59.64	-25.00	-34.64
10040.0	H	-	-	-84.50	13.87	36.37	-58.89	-25.00	-33.89

Table 7-18. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2535.0								
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]
5070.0	H	-	-	-81.25	7.43	33.18	-62.08	-25.00	-37.08
7605.0	H	-	-	-82.01	10.53	35.52	-59.74	-25.00	-34.74
10140.0	H	-	-	-84.38	14.39	37.01	-58.25	-25.00	-33.25

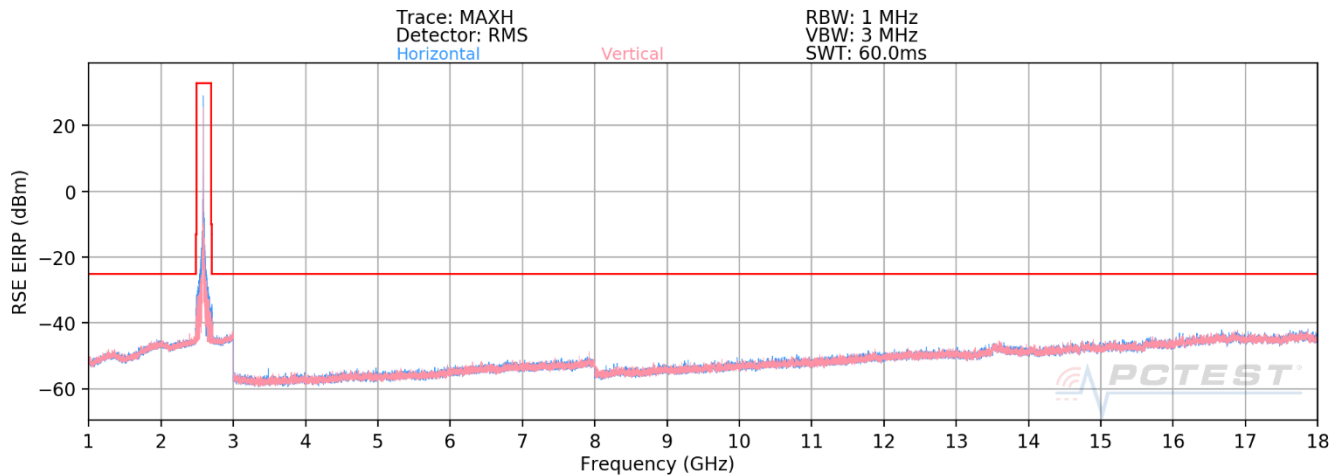
Table 7-19. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2560.0								
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]
5120.00	H	-	-	-81.09	7.66	33.57	-61.69	-25.00	-36.69
7680.00	H	-	-	-81.50	9.84	35.34	-59.92	-25.00	-34.92
10240.00	H	-	-	-84.04	13.64	36.60	-58.66	-25.00	-33.66

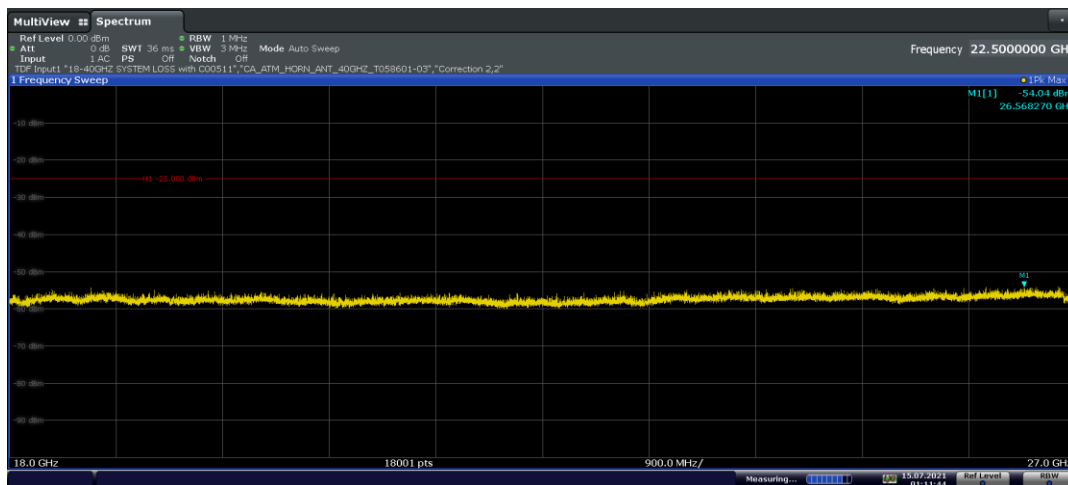
Table 7-20. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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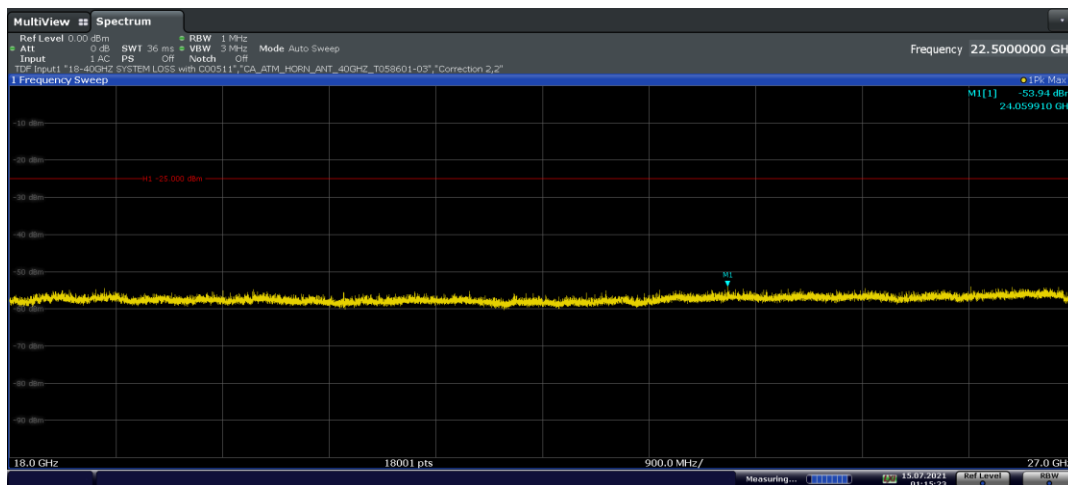
LTE Band 41



Plot 7-104. Antenna C Radiated Spurious Emission 1GHz – 18GHz (LTE Band 41)



Plot 7-105. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 41, Pol. H)



Plot 7-106. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 41, Pol. V)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth (MHz):	20								
Frequency (MHz):	2506.0								
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]
5012.0	H	-	-	-72.98	7.61	41.63	-53.62	-25.00	-28.62
7518.0	H	-	-	-74.12	10.72	43.60	-51.66	-25.00	-26.66
10024.0	H	-	-	-76.71	13.51	43.80	-51.46	-25.00	-26.46

Table 7-21. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2593.0								
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]
5186.0	H	-	-	-72.00	7.68	42.68	-52.58	-25.00	-27.58
7779.0	H	-	-	-73.77	10.41	43.64	-51.62	-25.00	-26.62
10372.0	H	-	-	-77.08	14.61	44.53	-50.73	-25.00	-25.73

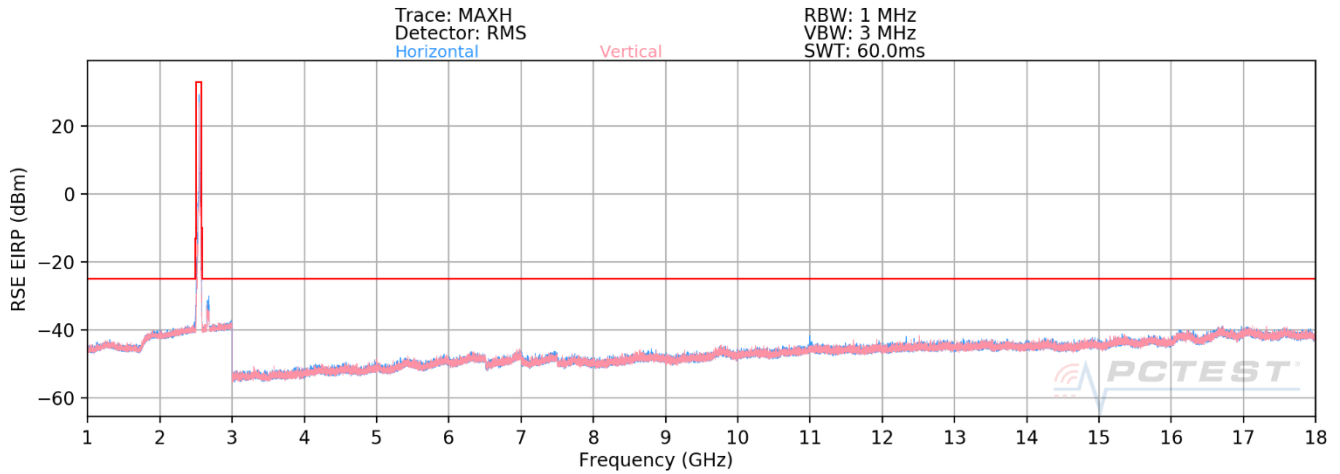
Table 7-22. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2680.0								
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]
5360.0	H	-	-	-72.69	7.83	42.14	-53.11	-25.00	-28.11
8040.0	H	-	-	-75.62	10.94	42.32	-52.94	-25.00	-27.94
10720.0	H	-	-	-77.34	15.57	45.23	-50.03	-25.00	-25.03

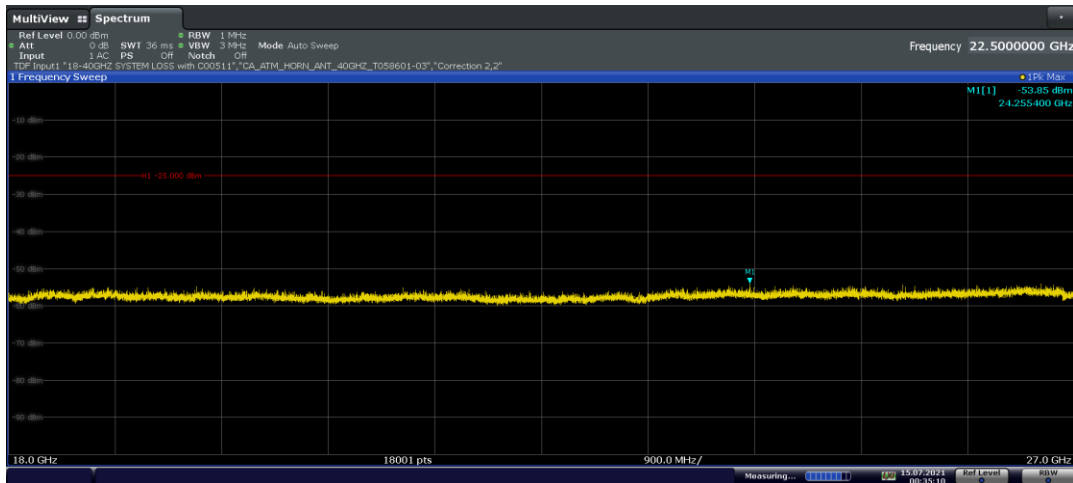
Table 7-23. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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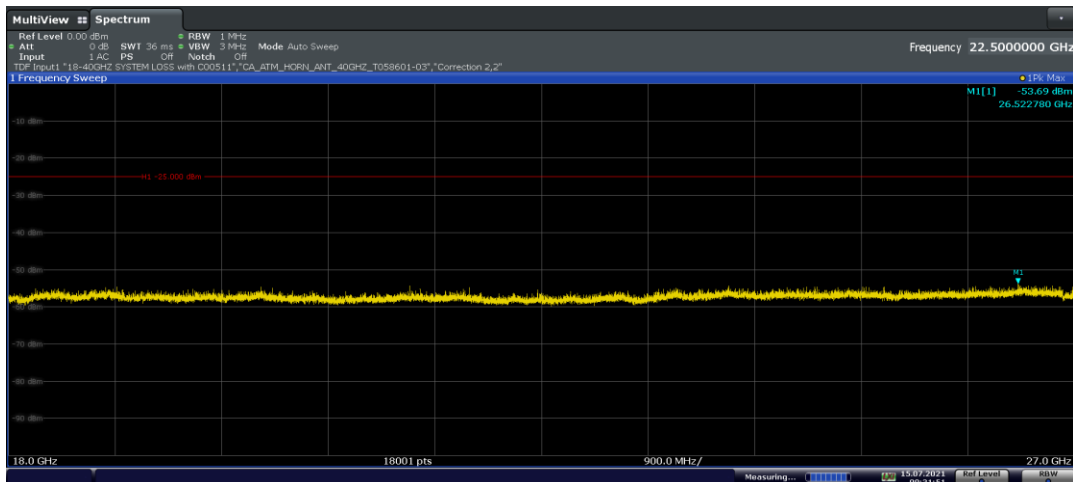
ULCA - LTE B7



Plot 7-107. Antenna C Radiated Spurious Emission 1GHz – 18GHz (ULCA LTE B7)



Plot 7-108. Antenna C Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H)



Plot 7-109. Antenna C Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. V)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device		Page 89 of 102

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

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]
5020.0	H	-	-	-79.15	5.93	33.78	-61.48	-25.00	-36.48
7530.0	H	-	-	-79.87	8.40	35.53	-59.72	-25.00	-34.72
10040.0	H	-	-	-80.79	10.57	36.78	-58.47	-25.00	-33.47
12550.0	H	-	-	-80.98	13.97	39.99	-55.27	-25.00	-30.27

Table 7-24. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0

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]
5070.0	H	-	-	-79.25	6.23	33.98	-61.28	-25.00	-36.28
7605.0	H	-	-	-79.82	8.08	35.26	-60.00	-25.00	-35.00
10140.0	H	-	-	-81.32	11.31	36.99	-58.27	-25.00	-33.27
12675.0	H	-	-	-80.93	13.93	40.00	-55.26	-25.00	-30.26

Table 7-25. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

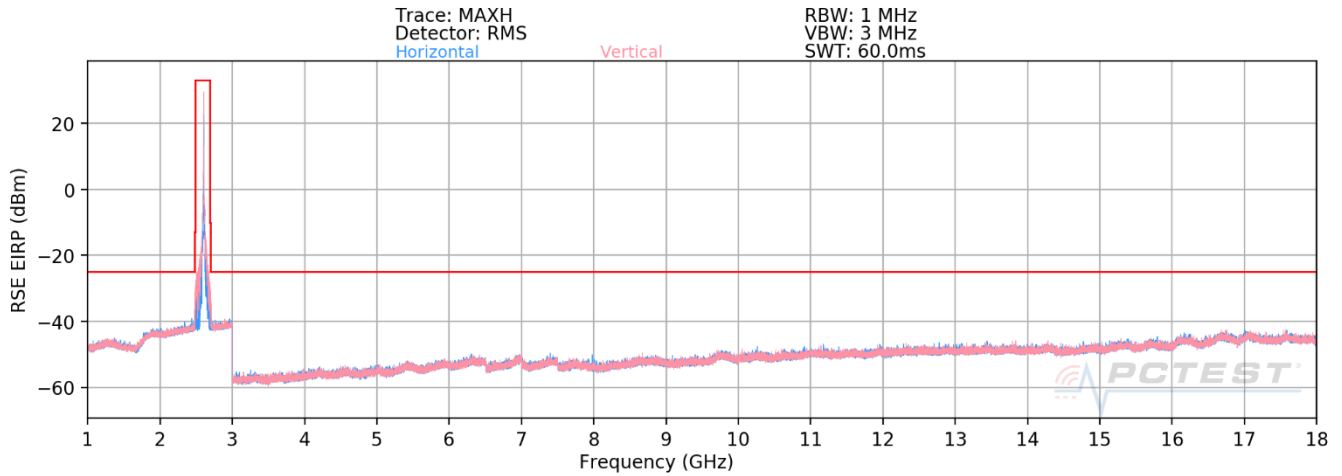
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

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]
5120.0	H	-	-	-79.27	5.70	33.43	-61.83	-25.00	-36.83
7680.0	H	-	-	-79.65	8.54	35.89	-59.36	-25.00	-34.36
10240.0	H	-	-	-81.13	11.93	37.80	-57.46	-25.00	-32.46
12800.0	H	-	-	-81.20	14.18	39.98	-55.27	-25.00	-30.27

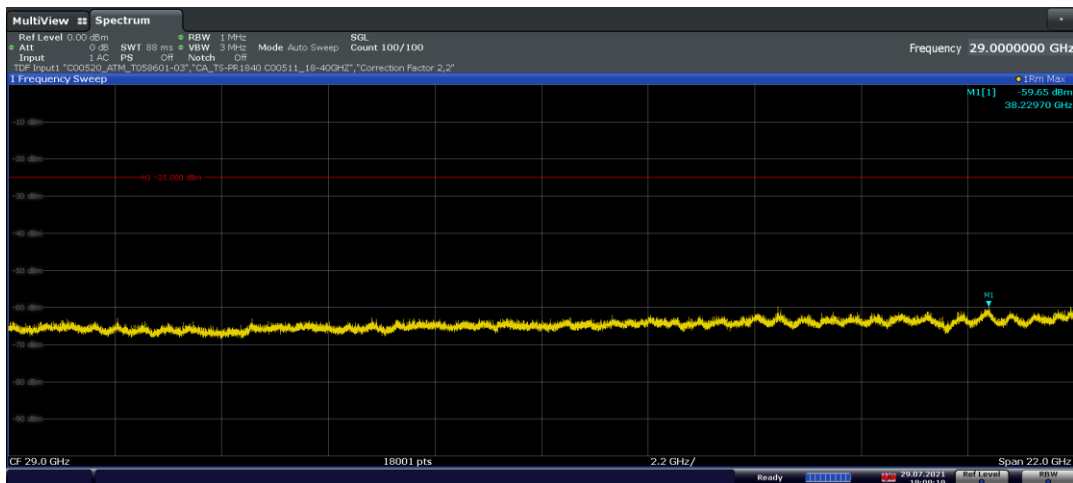
Table 7-26. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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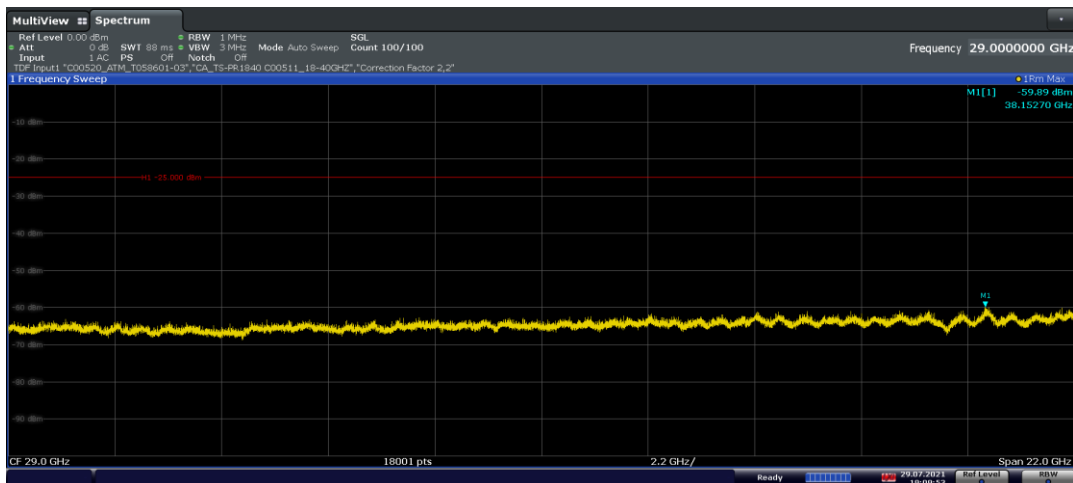
ULCA - LTE B41



Plot 7-110. Antenna C Radiated Spurious Emission 1GHz – 18GHz (ULCA LTE B41)



Plot 7-111. Antenna C Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. H)



Plot 7-112. Antenna C Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. V)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 91 of 102

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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]
5012.0	H	-	-	-71.48	8.29	43.81	-51.44	-25.00	-26.44
7518.0	H	-	-	-72.26	11.20	45.94	-49.31	-25.00	-24.31
10024.0	H	-	-	-73.35	15.36	49.01	-46.24	-25.00	-21.24

Table 7-27. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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]
5186.0	H	-	-	-71.78	9.36	44.58	-50.68	-25.00	-25.68
7779.0	H	-	-	-73.67	12.05	45.38	-49.88	-25.00	-24.88
10372.0	H	-	-	-73.87	15.90	49.03	-46.22	-25.00	-21.22

Table 7-28. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5360.0	H	-	-	-72.91	9.66	43.75	-51.51	-25.00	-26.51
8040.0	H	-	-	-72.63	13.07	47.44	-47.82	-25.00	-22.82
10720.0	H	-	-	-73.73	15.50	48.77	-46.48	-25.00	-21.48
13400.0	H	-	-	-73.61	18.35	51.74	-43.52	-25.00	-18.52

Table 7-29. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2603	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 92 of 102

7.7.2 Antenna D Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5								
Frequency (MHz):	2307.5								
RB / Offset:	1 / 12								
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]
4615.0	H	-	-	-79.09	5.21	33.12	-62.14	-40.00	-22.14
6922.5	H	-	-	-79.71	7.81	35.10	-60.16	-40.00	-20.16
9230.0	H	-	-	-81.01	10.89	36.88	-58.37	-40.00	-18.37

Table 7-30. Radiated Spurious Data (LTE Band 30 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	2310.0								
RB / Offset:	1 / 25								
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]
4620.0	H	-	-	-79.15	5.13	32.98	-62.28	-40.00	-22.28
6930.0	H	-	-	-79.48	7.79	35.31	-59.95	-40.00	-19.95
9240.0	H	-	-	-81.04	11.02	36.98	-58.28	-40.00	-18.28

Table 7-31. Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	2312.5								
RB / Offset:	1 / 12								
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]
4625.00	H	-	-	-78.96	5.05	33.09	-62.17	-40.00	-22.17
6937.50	H	-	-	-79.85	7.79	34.94	-60.31	-40.00	-20.31
9250.00	H	-	-	-81.22	11.06	36.84	-58.42	-40.00	-18.42

Table 7-32. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 7

Bandwidth (MHz):	20								
Frequency (MHz):	2510.0								
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]
5020.0	H	-	-	-81.12	7.68	33.56	-61.70	-25.00	-36.70
7530.0	H	103	64	-79.99	10.81	37.82	-57.44	-25.00	-32.44
10040.0	H	-	-	-84.15	13.87	36.72	-58.54	-25.00	-33.54
12550.0	H	-	-	-85.74	18.32	39.58	-55.68	-25.00	-30.68
15060.0	H	-	-	-86.08	20.64	41.56	-53.70	-25.00	-28.70

Table 7-33. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2535.0								
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]
5070.0	H	-	-	-81.44	7.43	32.99	-62.27	-25.00	-37.27
7605.0	H	104	28	-76.67	10.53	40.86	-54.40	-25.00	-29.40
10140.0	H	-	-	-84.32	14.39	37.07	-58.19	-25.00	-33.19
12675.0	H	-	-	-85.98	18.59	39.61	-55.65	-25.00	-30.65
15210.0	H	-	-	-86.49	20.77	41.28	-53.97	-25.00	-28.97

Table 7-34. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2560.0								
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]
5120.00	H	-	-	-81.27	7.66	33.39	-61.87	-25.00	-36.87
7680.00	H	108	36	-76.17	9.84	40.67	-54.59	-25.00	-29.59
10240.00	H	-	-	-84.16	13.64	36.48	-58.78	-25.00	-33.78
12800.00	H	-	-	-85.91	18.89	39.98	-55.28	-25.00	-30.28
15360.00	H	-	-	-86.55	20.91	41.36	-53.90	-25.00	-28.90

Table 7-35. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 94 of 102

LTE Band 41

Bandwidth (MHz):	20								
Frequency (MHz):	2506.0								
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]
5012.0	H	-	-	-72.35	7.61	42.26	-52.99	-25.00	-27.99
7518.0	H	-	-	-72.39	10.72	45.33	-49.93	-25.00	-24.93
10024.0	H	-	-	-74.40	13.51	46.11	-49.15	-25.00	-24.15

Table 7-36. Radiated Spurious Data (LTE Band 41 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2593.0								
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]
5186.0	H	-	-	-71.84	7.68	42.84	-52.42	-25.00	-27.42
7779.0	H	-	-	-71.64	10.41	45.77	-49.49	-25.00	-24.49
10372.0	H	-	-	-75.83	14.61	45.78	-49.48	-25.00	-24.48

Table 7-37. Radiated Spurious Data (LTE Band 41 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	2680.0								
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]
5360.0	H	-	-	-69.48	7.83	45.35	-49.90	-25.00	-24.90
8040.0	H	-	-	-71.45	10.94	46.49	-48.77	-25.00	-23.77
10720.0	H	-	-	-73.14	15.57	49.43	-45.83	-25.00	-20.83

Table 7-38. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 95 of 102

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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

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]
5020.0	H	-	-	-80.77	8.23	34.46	-60.79	-25.00	-35.79
7530.0	H	-	-	-81.97	11.21	36.24	-59.02	-25.00	-34.02
10040.0	H	-	-	-82.24	14.94	39.70	-55.56	-25.00	-30.56

Table 7-39. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0

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]
5070.0	H	-	-	-81.25	7.88	33.63	-61.63	-25.00	-36.63
7605.0	H	-	-	-82.88	12.79	36.91	-58.35	-25.00	-33.35
10140.0	H	-	-	-82.82	14.84	39.02	-56.24	-25.00	-31.24

Table 7-40. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

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]
5120.0	H	-	-	-81.16	9.07	34.91	-60.35	-25.00	-35.35
7680.0	H	-	-	-82.81	12.28	36.47	-58.78	-25.00	-33.78
10240.0	H	-	-	-82.82	15.63	39.81	-55.45	-25.00	-30.45

Table 7-41. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-04-R1.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 96 of 102

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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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]
5012.0	H	-	-	-71.48	8.29	43.81	-51.44	-25.00	-26.44
7518.0	H	-	-	-72.26	11.20	45.94	-49.31	-25.00	-24.31
10024.0	H	-	-	-73.35	15.36	49.01	-46.24	-25.00	-21.24

Table 7-42. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

Sample #:	77821
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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]
5186.0	H	-	-	-71.75	9.36	44.61	-50.65	-25.00	-25.65
7779.0	H	-	-	-73.15	12.05	45.90	-49.36	-25.00	-24.36
10372.0	H	-	-	-73.88	15.90	49.02	-46.23	-25.00	-21.23

Table 7-43. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

Sample #:	77821
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5360.0	H	-	-	-71.69	9.66	44.97	-50.29	-25.00	-25.29
8040.0	H	-	-	-73.06	13.07	47.01	-48.25	-25.00	-23.25
10720.0	H	-	-	-73.48	15.50	49.02	-46.23	-25.00	-21.23
13400.0	H	-	-	-73.63	18.35	51.72	-43.54	-25.00	-18.54

Table 7-44. Radiated Spurious Data (ULCA LTE B41 – High Channel)

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7.8 Frequency Stability / Temperature Variation

\$2.1055, \$27.54

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:

- a.) **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.

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

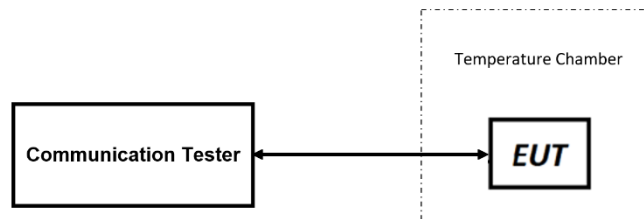


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 30

Low Channel Frequency (Hz):	2,307,500,000
High Channel Frequency (Hz):	2,312,500,000
Ref. Voltage (VDC):	3.8

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,005	2,307,500,005	4	4	0.000000170
		- 20	2,307,500,006	2,307,500,005	4	4	0.000000181
		- 10	2,307,500,003	2,307,500,004	2	3	0.000000110
		0	2,307,500,003	2,307,500,003	2	1	0.000000088
		+ 10	2,307,500,003	2,307,500,003	2	1	0.000000087
		+ 20 (Ref)	2,307,500,001	2,307,500,001	0	0	0.000000000
		+ 30	2,307,500,003	2,307,500,003	1	1	0.000000063
		+ 40	2,307,500,006	2,307,500,005	5	4	0.000000198
		+ 50	2,307,500,007	2,307,500,005	5	3	0.000000222
Battery Endpoint	3.23	+ 20	2,307,500,004	2,307,500,004	3	3	0.000000121

Table 7-45. LTE Band 30 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 30

Low Channel Frequency (Hz):	2,307,500,000
High Channel Frequency (Hz):	2,312,500,000
Ref. Voltage (VDC):	3.8

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,005	2,307,500,005	4	4	0.000000170
		- 20	2,307,500,006	2,307,500,005	4	4	0.000000181
		- 10	2,307,500,003	2,307,500,004	2	3	0.000000110
		0	2,307,500,003	2,307,500,003	2	1	0.000000088
		+ 10	2,307,500,003	2,307,500,003	2	1	0.000000087
		+ 20 (Ref)	2,307,500,001	2,307,500,001	0	0	0.000000000
		+ 30	2,307,500,003	2,307,500,003	1	1	0.000000063
		+ 40	2,307,500,006	2,307,500,005	5	4	0.000000198
		+ 50	2,307,500,007	2,307,500,005	5	3	0.000000222
Battery Endpoint	3.23	+ 20	2,307,500,004	2,307,500,004	3	3	0.000000121

Table 7-46. LTE Band 7 Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

LTE Band 30							
			Low Channel Frequency (Hz):	2,307,500,000			
			High Channel Frequency (Hz):	2,312,500,000			
			Ref. Voltage (VDC):	3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,005	2,307,500,005	4	4	0.000000170
		- 20	2,307,500,006	2,307,500,005	4	4	0.000000181
		- 10	2,307,500,003	2,307,500,004	2	3	0.000000110
		0	2,307,500,003	2,307,500,003	2	1	0.000000088
		+ 10	2,307,500,003	2,307,500,003	2	1	0.000000087
		+ 20 (Ref)	2,307,500,001	2,307,500,001	0	0	0.000000000
		+ 30	2,307,500,003	2,307,500,003	1	1	0.000000063
		+ 40	2,307,500,006	2,307,500,005	5	4	0.000000198
		+ 50	2,307,500,007	2,307,500,005	5	3	0.000000222
Battery Endpoint	3.23	+ 20	2,307,500,004	2,307,500,004	3	3	0.000000121

Table 7-47. LTE Band 41 Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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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: BCGA2603** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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