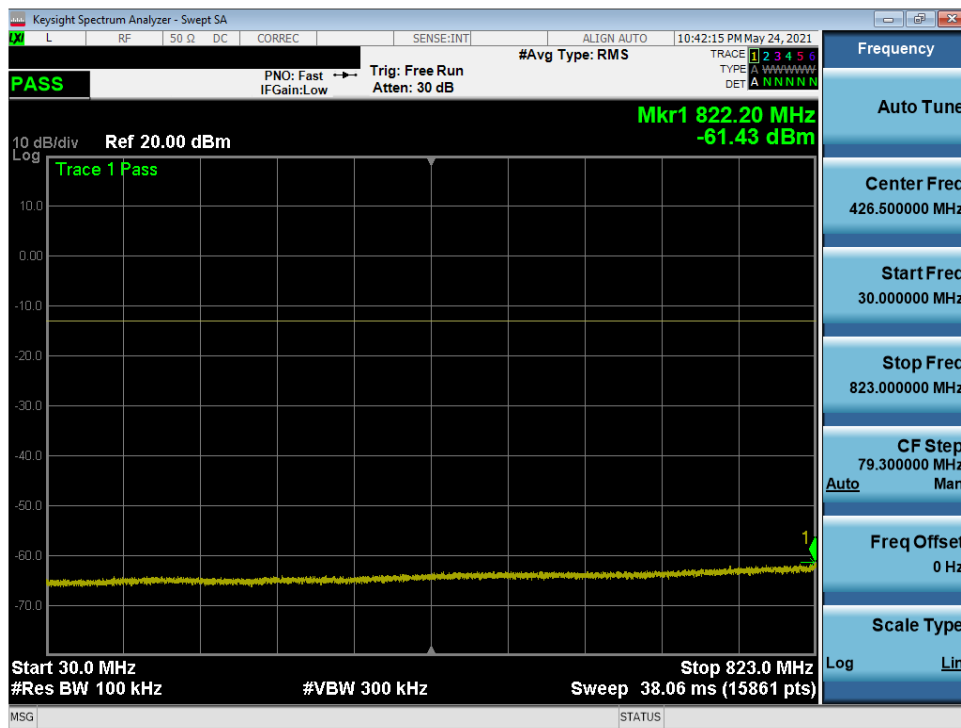
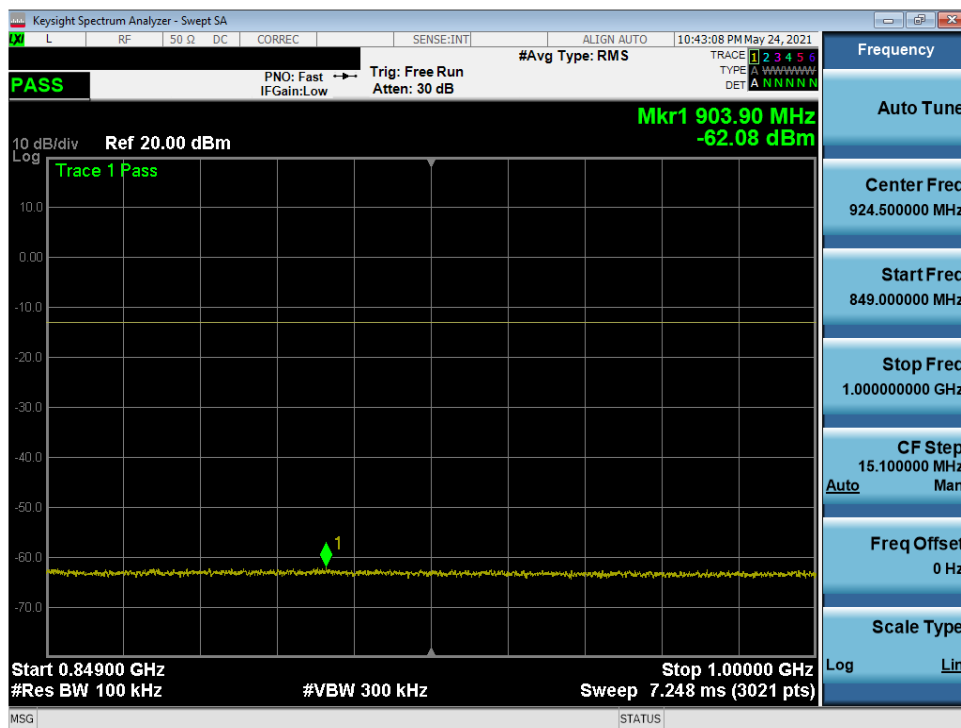


WCDMA Cell

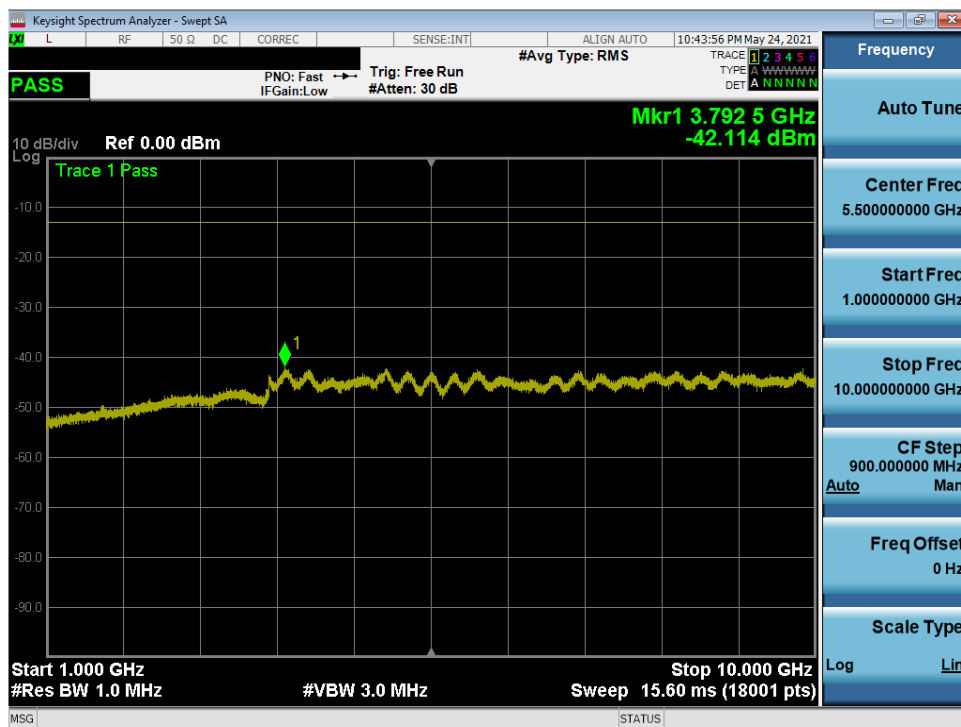


Plot 7-66. CSE (WCDMA Ch. 4132)

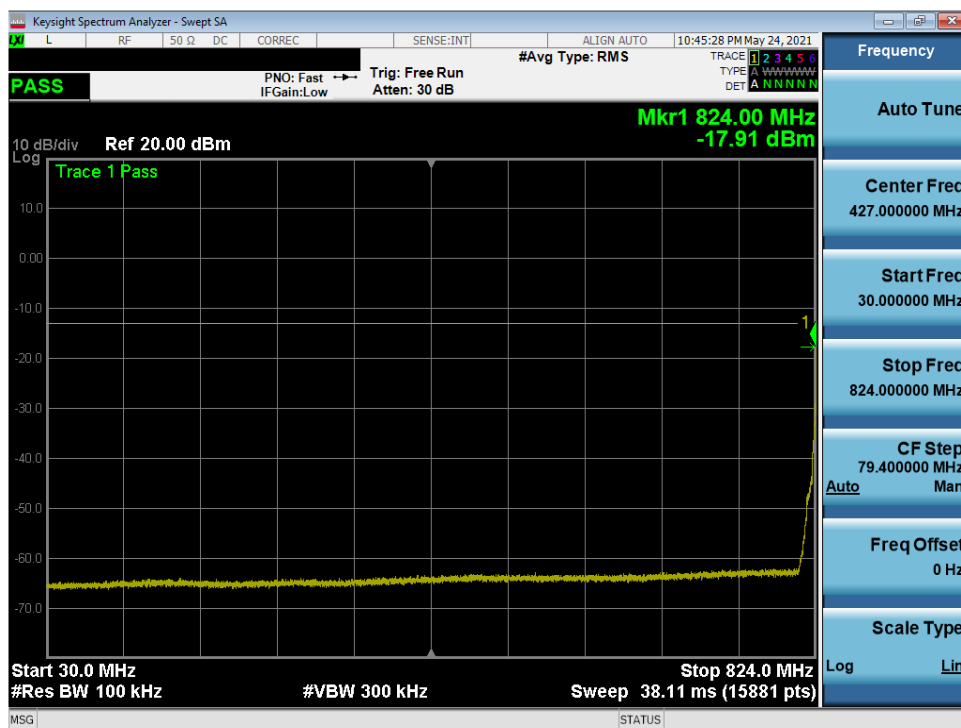


Plot 7-67. CSE (WCDMA Ch. 4132)

FCC ID: BCGA2568	PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 50 of 98

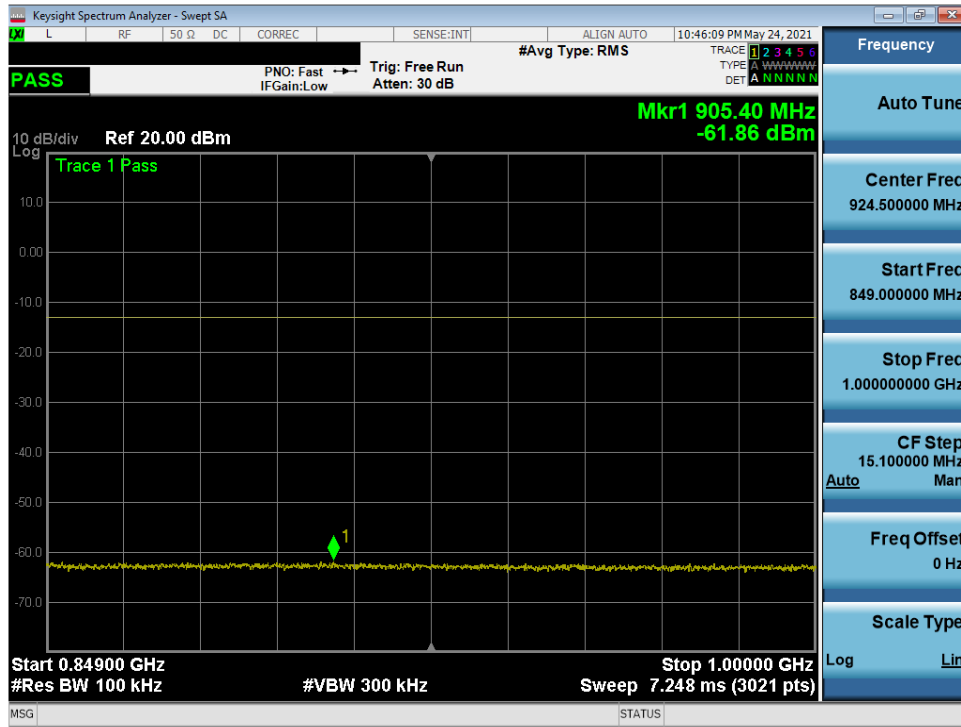


Plot 7-68. CSE (WCDMA Ch. 4132)

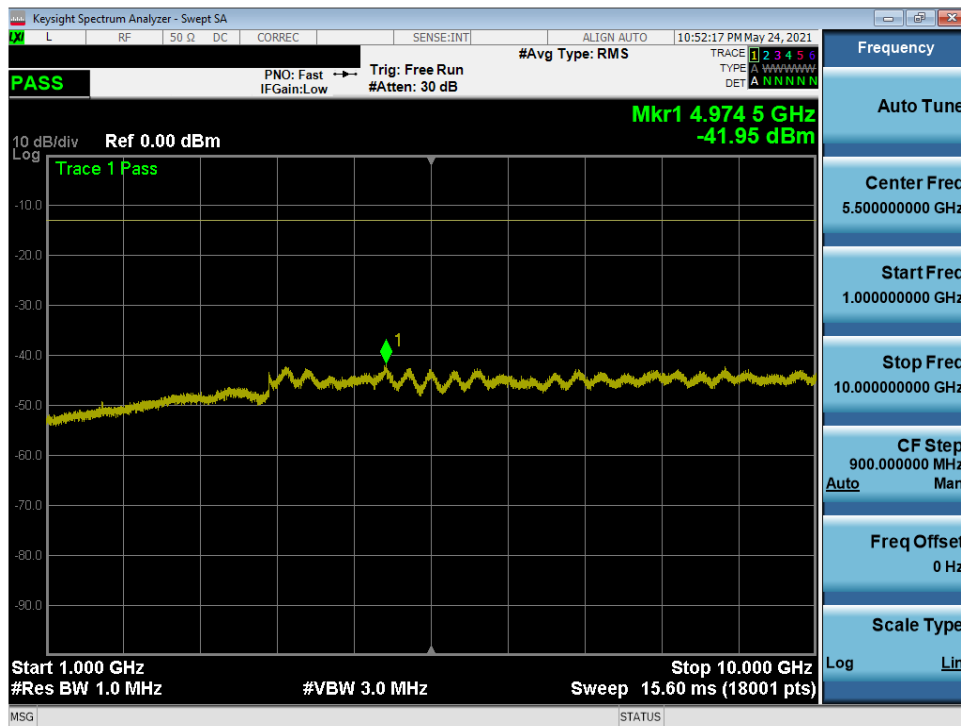


Plot 7-69. CSE (WCDMA Ch. 4183)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 51 of 98

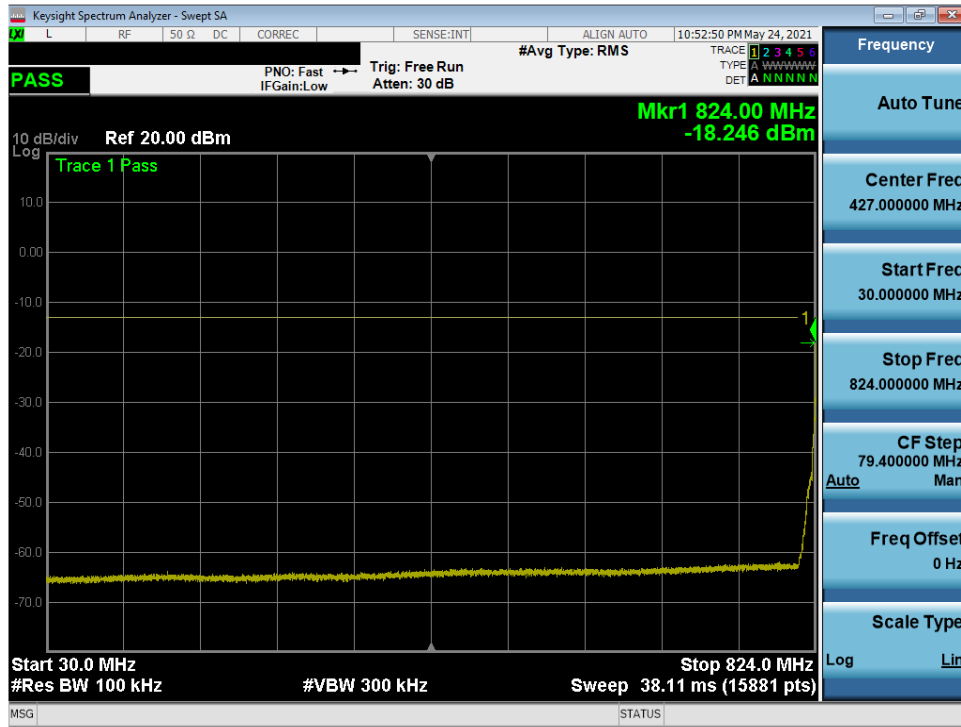


Plot 7-70. CSE (WCDMA Ch. 4183)



Plot 7-71. CSE (WCDMA Ch. 4183)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 52 of 98

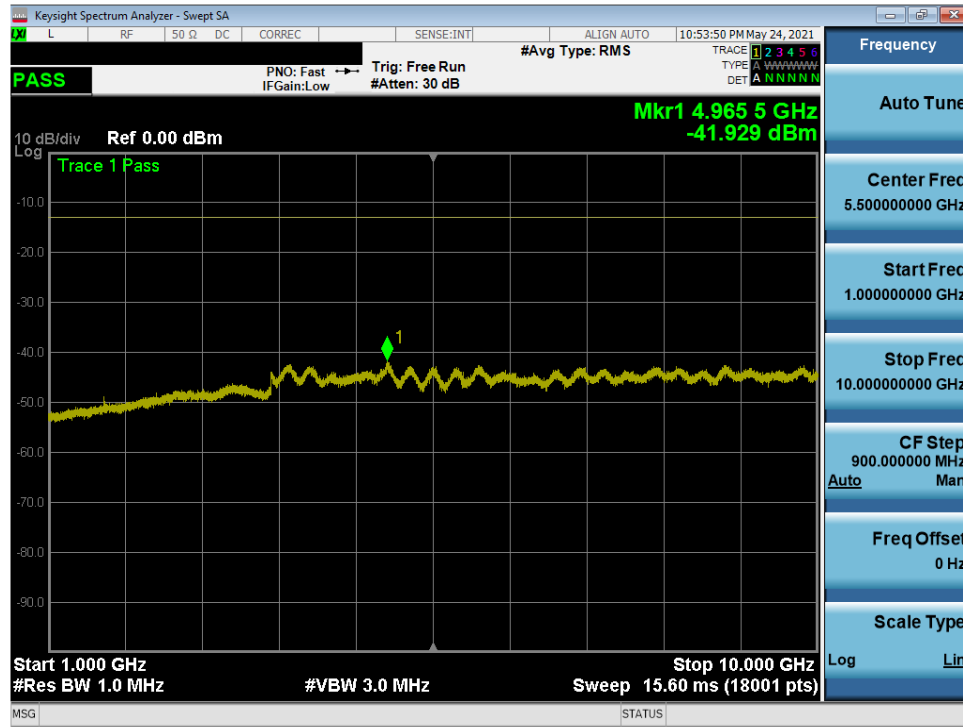


Plot 7-72. CSE (WCDMA Ch. 4233)



Plot 7-73. CSE (WCDMA Ch. 4233)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 53 of 98



Plot 7-74. CSE (WCDMA Ch. 4233)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 54 of 98

7.4 Band Edge Emissions at Antenna Terminal

§2.1051, 22.917(a)

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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. All ports were tested and only the worst case data was reported.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. $RBW \geq 1\%$ of the emission bandwidth
4. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

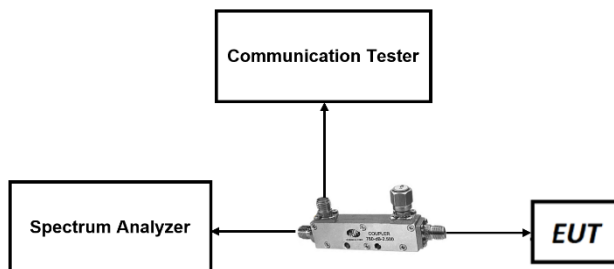


Figure 7-3. Test Instrument & Measurement Setup

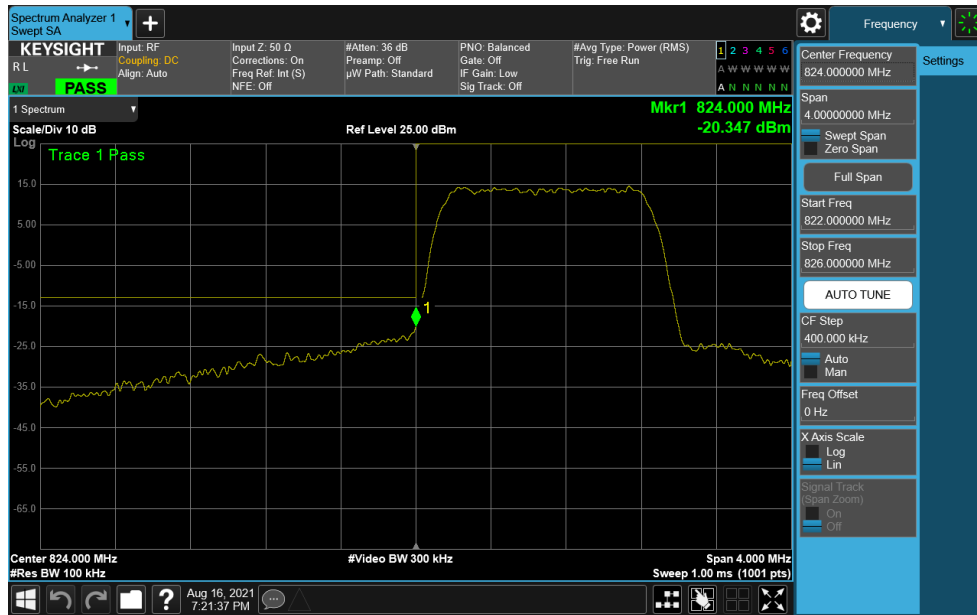
FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 55 of 98

Test Notes

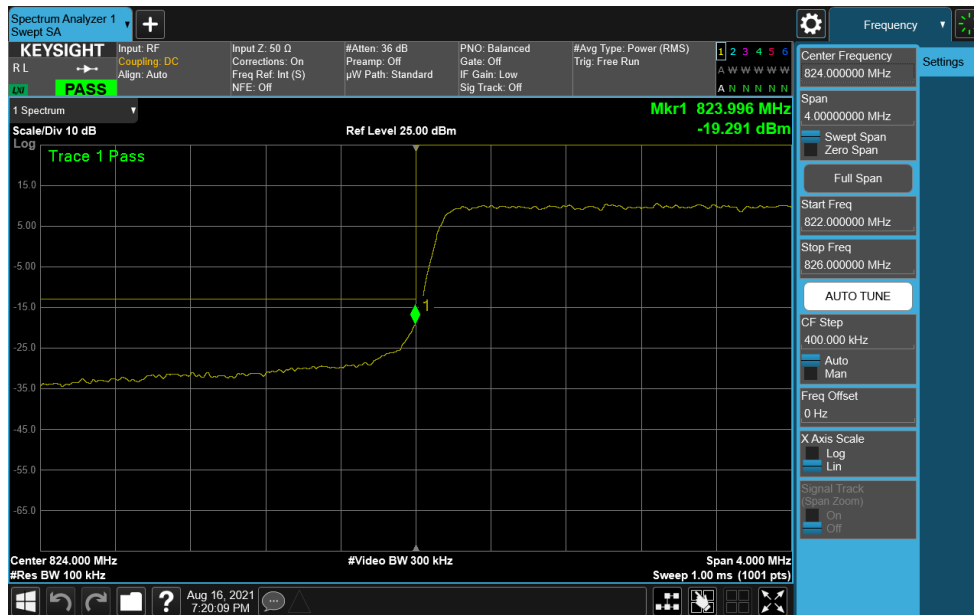
1. Per 22.917(b), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. 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.

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 56 of 98

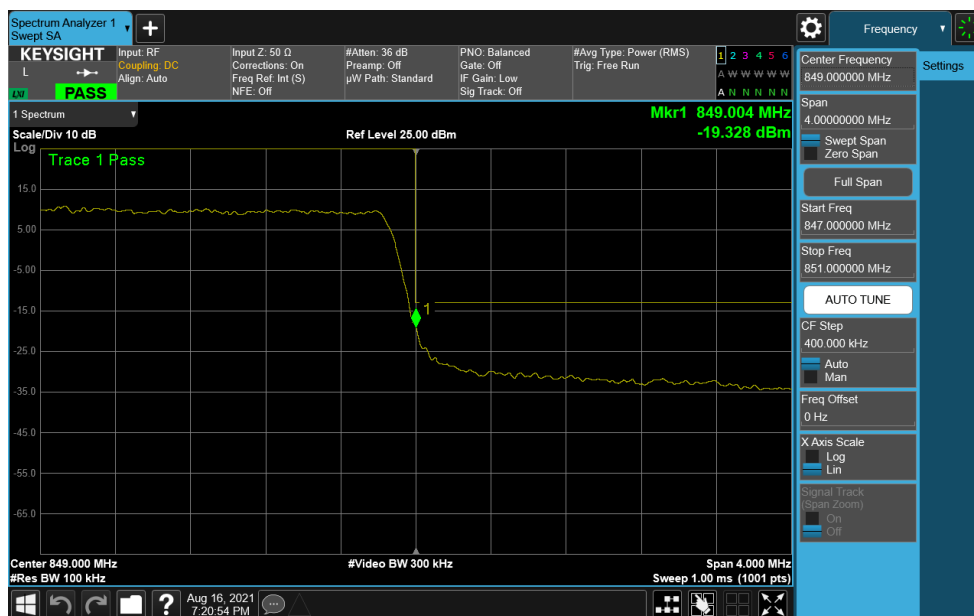
LTE Band 26



FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 57 of 98

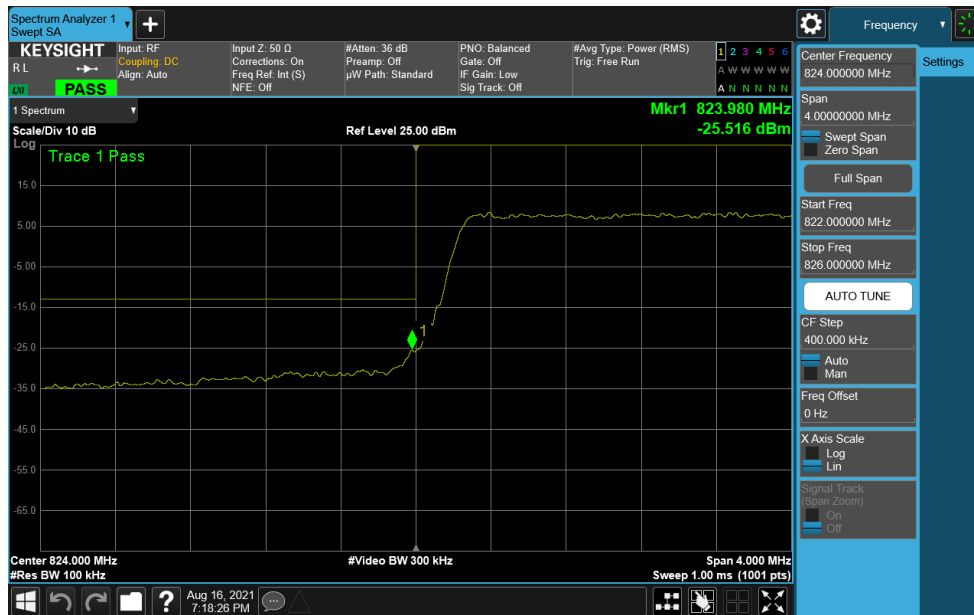


Plot 7-77. Lower BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

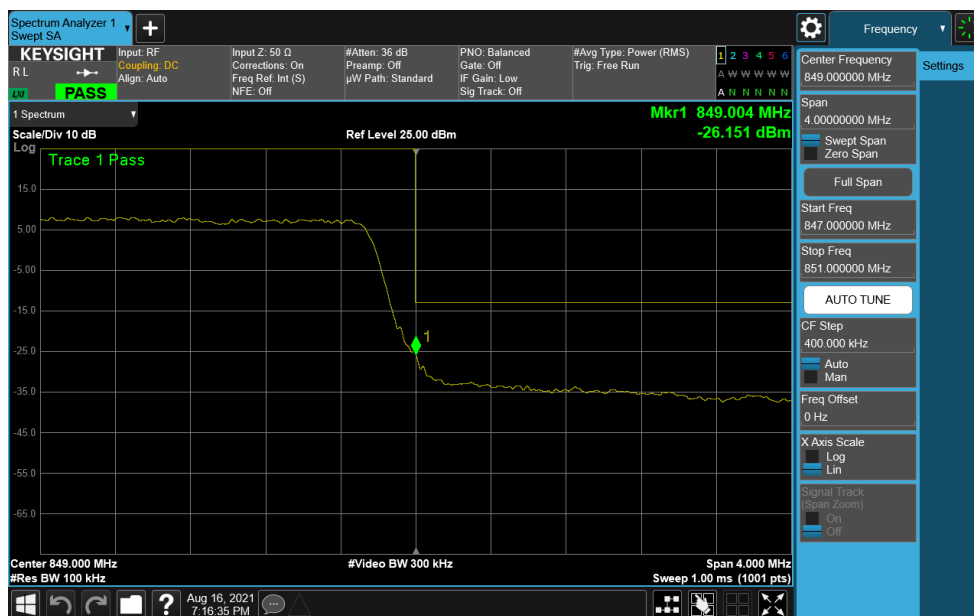


Plot 7-78. Upper BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 58 of 98

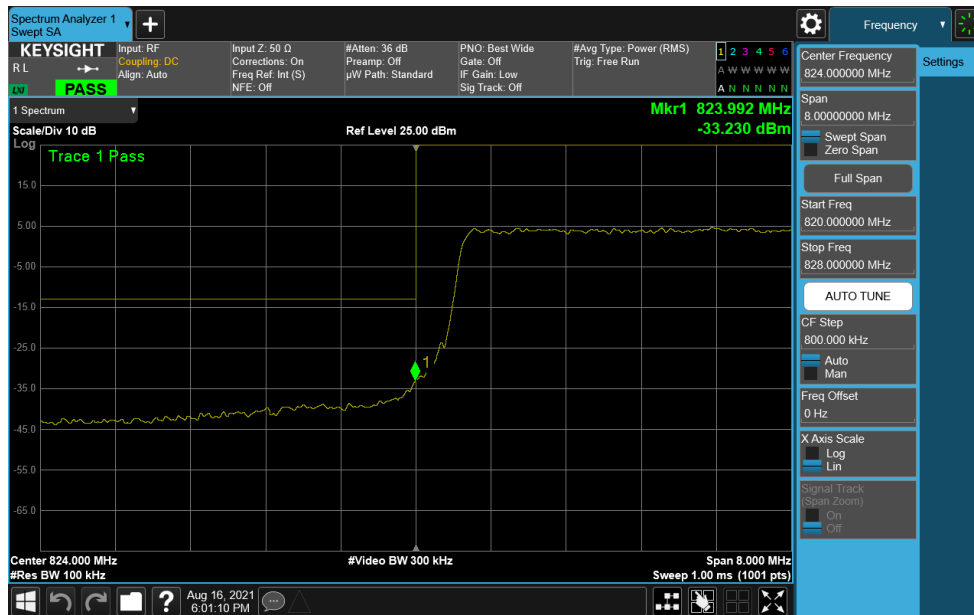


Plot 7-79. Lower BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

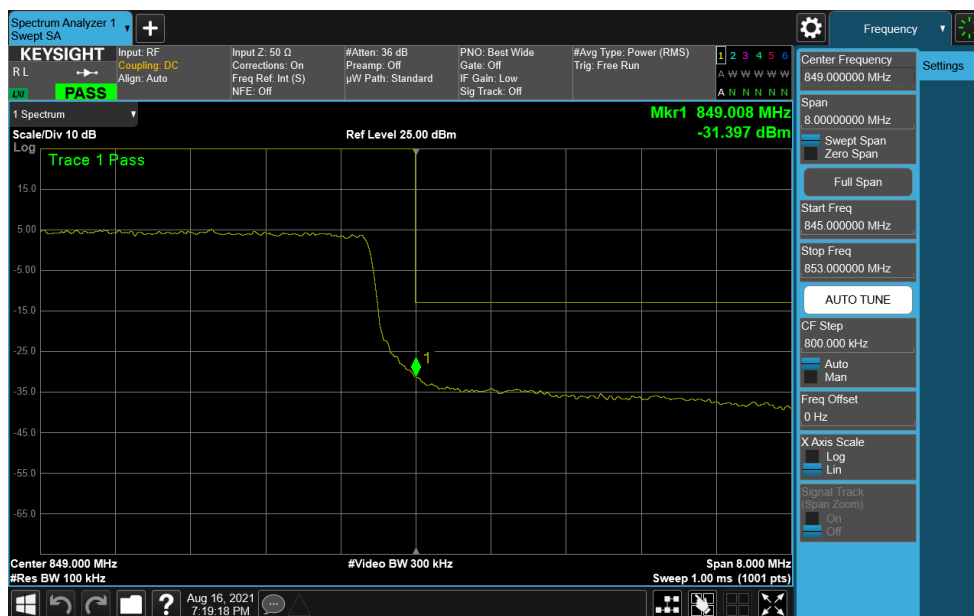


Plot 7-80. Upper BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 59 of 98



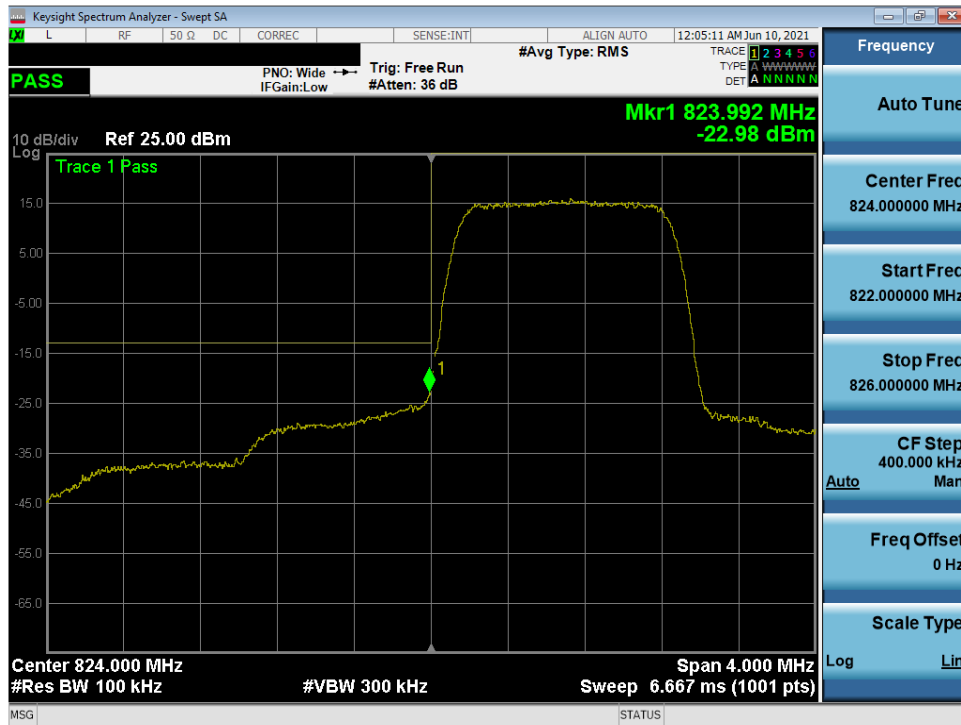
Plot 7-81. Lower BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)



Plot 7-82. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 60 of 98

LTE Band 5

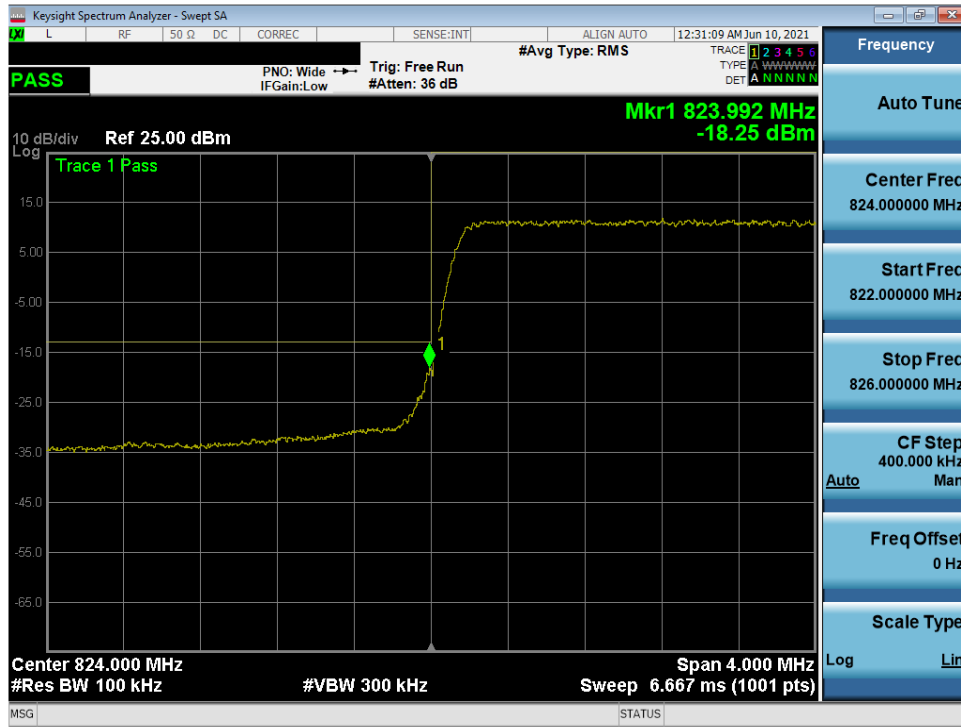


Plot 7-83. Lower BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)



Plot 7-84. Upper BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 61 of 98

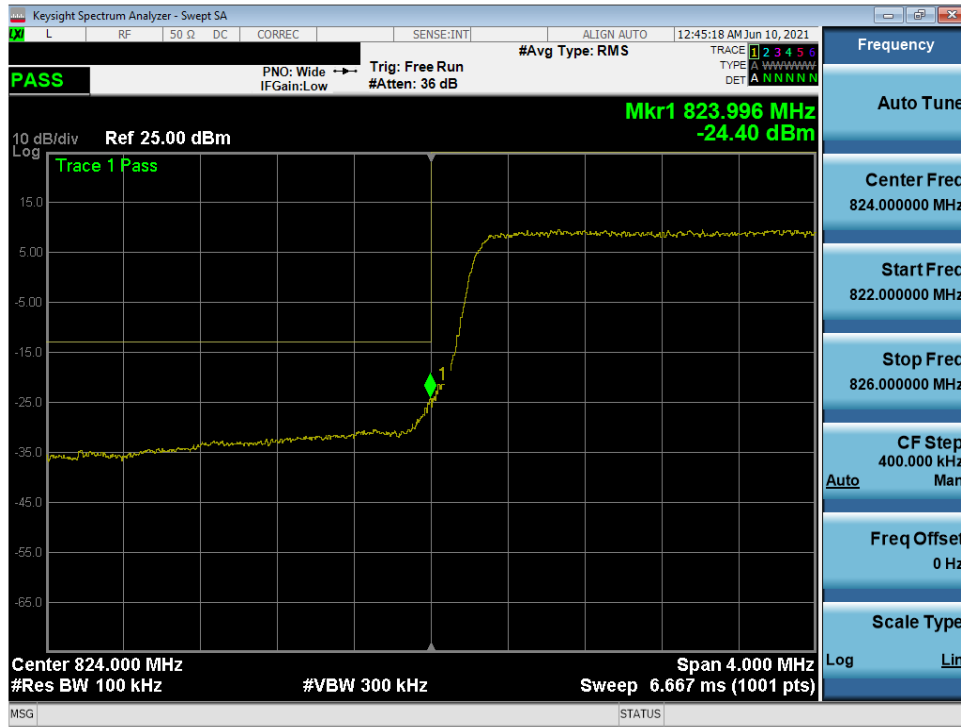


Plot 7-85. Lower BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)



Plot 7-86. Upper BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 62 of 98

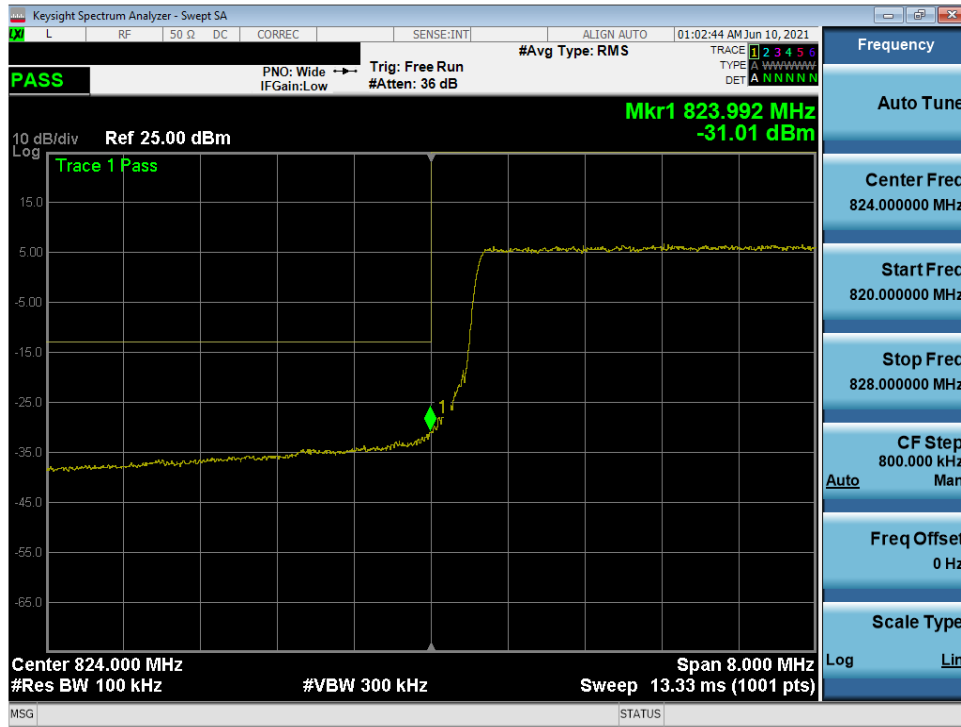


Plot 7-87. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)



Plot 7-88. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 63 of 98



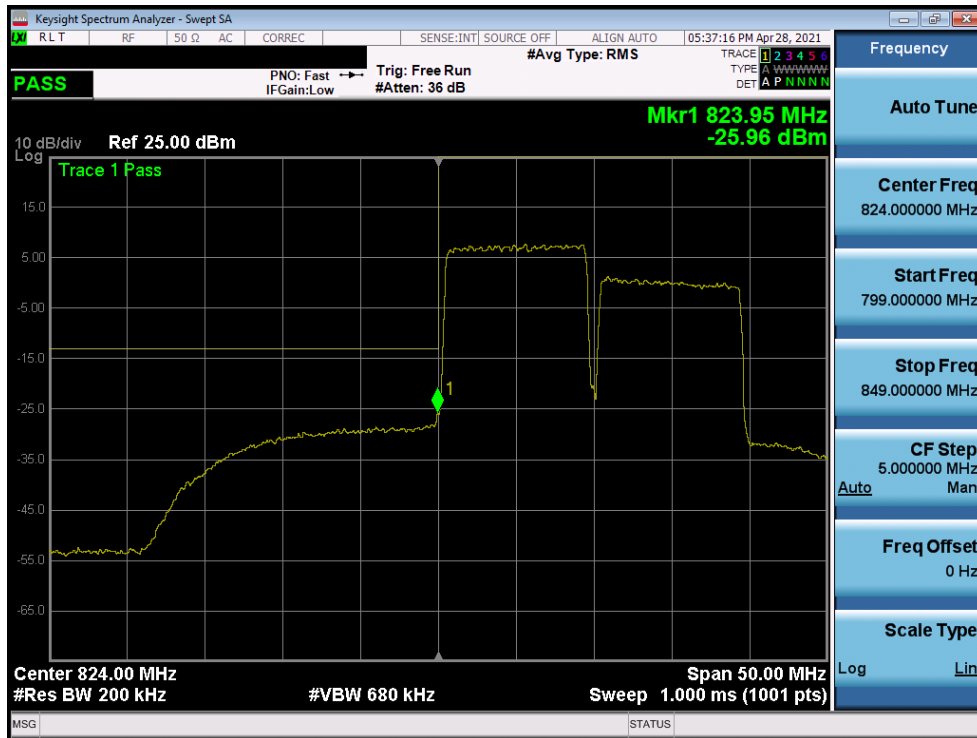
Plot 7-89. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)



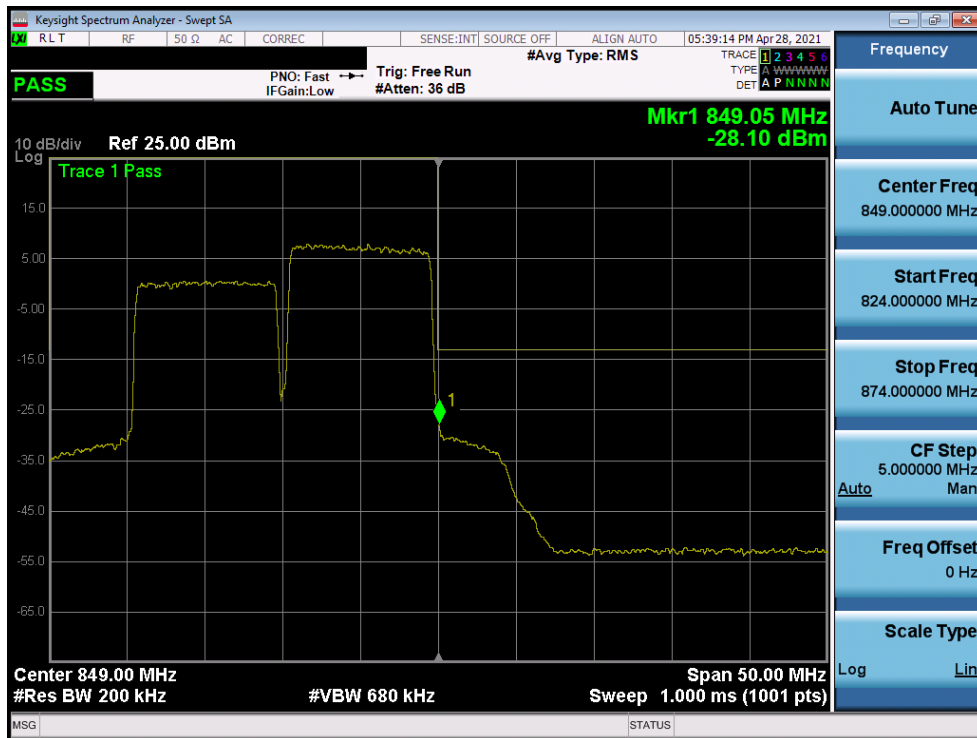
Plot 7-90. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 64 of 98

ULCA - LTE Band 5



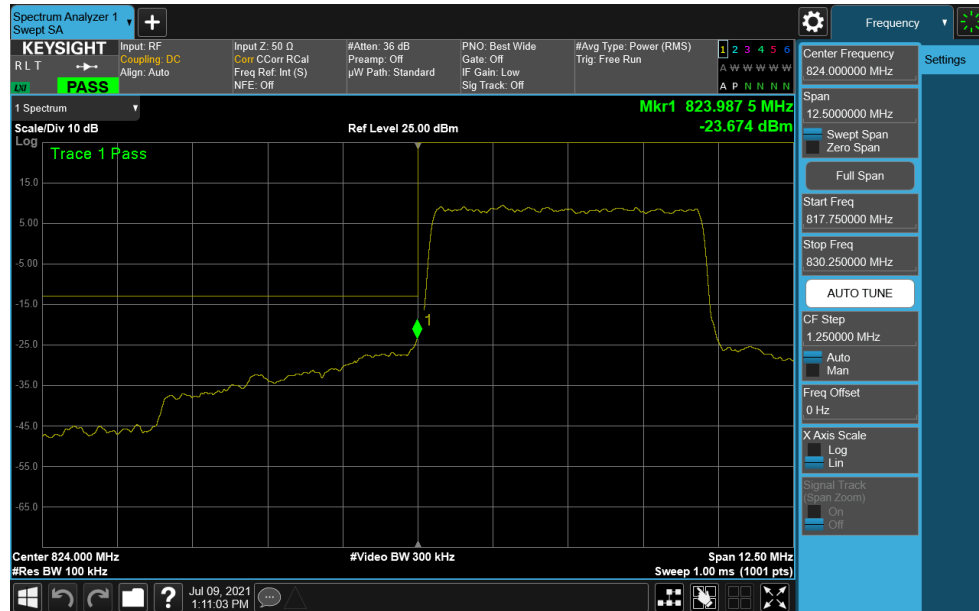
Plot 7-91. Lower BE Plot (ULCA – LTE Band 5 – (10 + 10)MHz QPSK – Full RB Configuration)



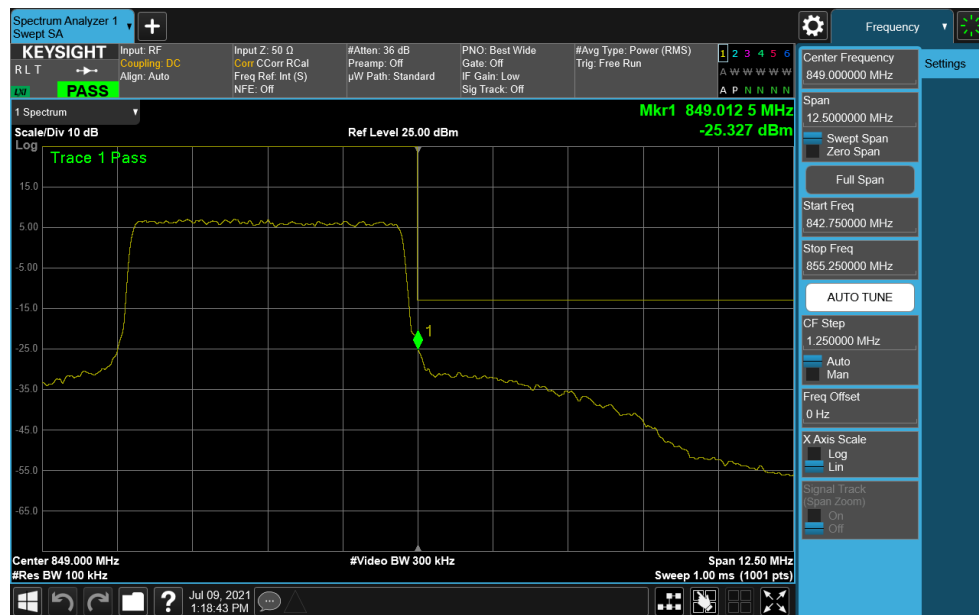
Plot 7-92. Upper BE Plot (ULCA – LTE Band 5 - (10 + 10)MHz QPSK – Full RB Configuration)

FCC ID: BCGA2568	PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 65 of 98

NR Band n5

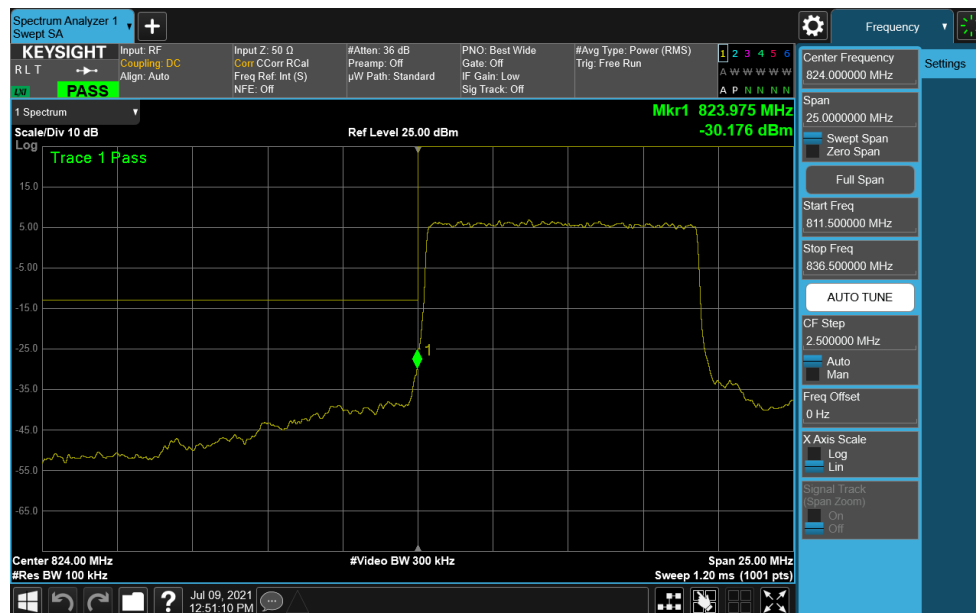


Plot 7-93. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 5.0MHz - Full RB)

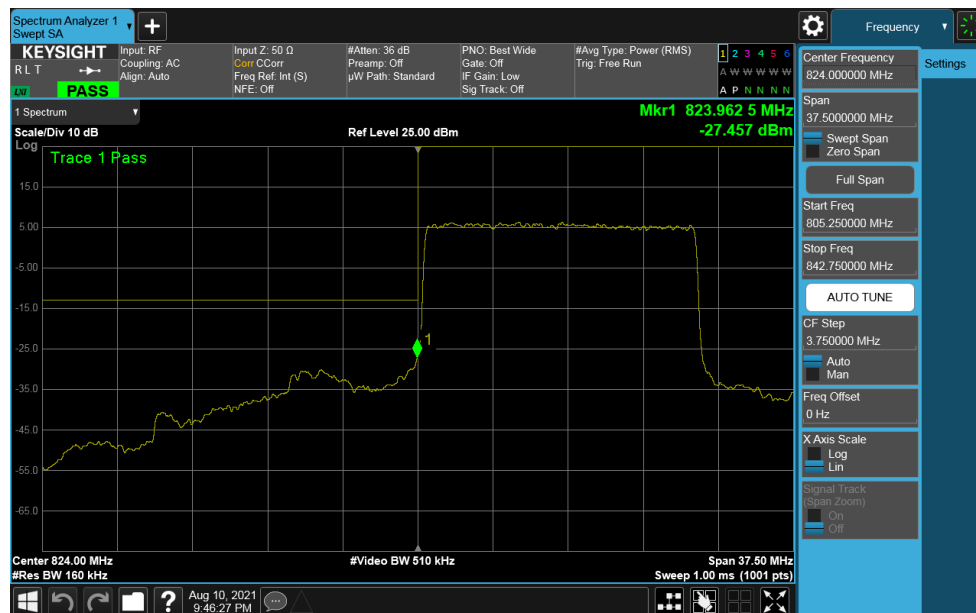


Plot 7-94. Upper BE Plot (NR Band n5 CP-OFDM QPSK – 5.0MHz - Full RB)

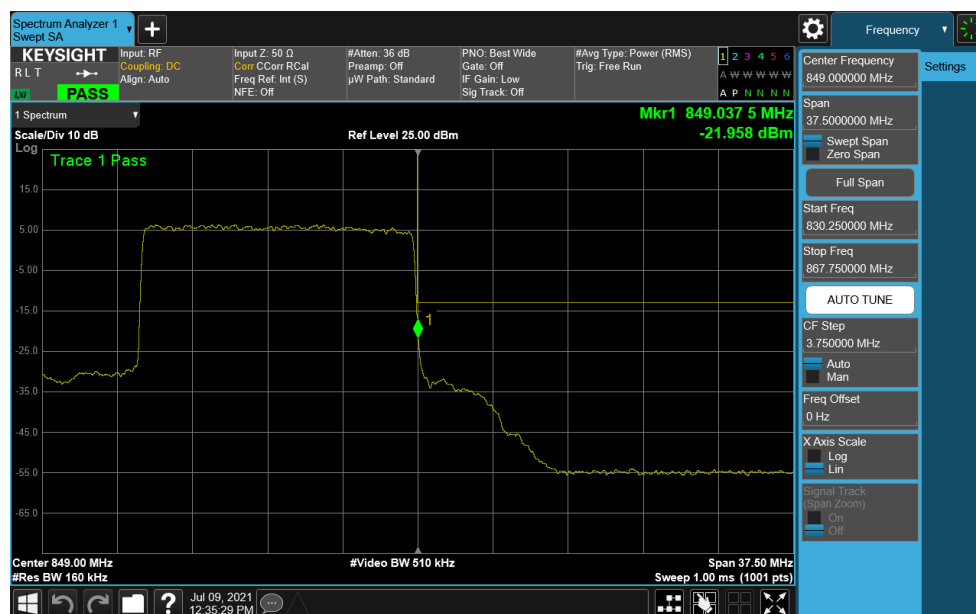
FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 66 of 98



FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 67 of 98

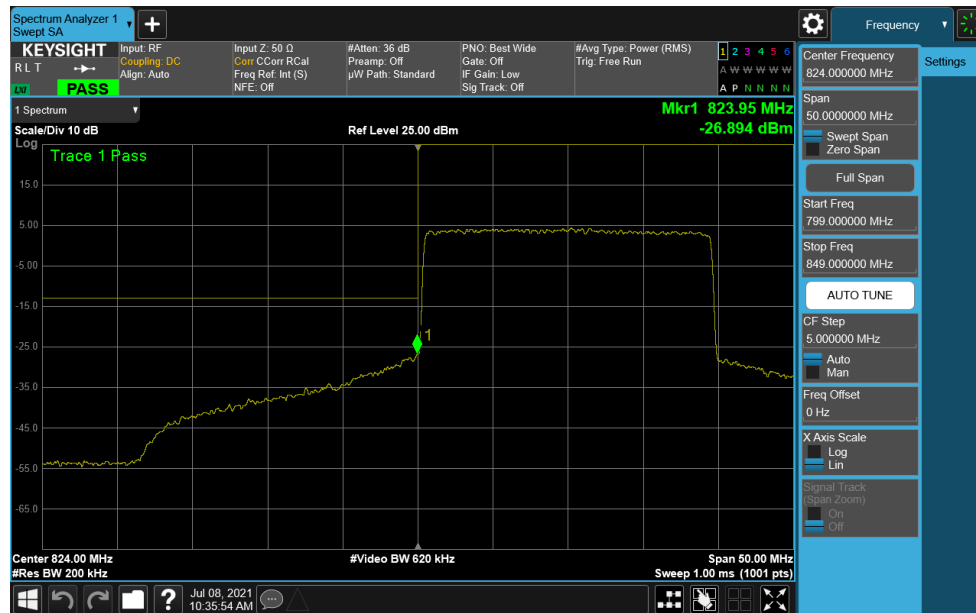


Plot 7-97. Lower BE Plot (NR Band n5 DTS-s-OFDM $\pi/2$ BPSK – 15.0MHz - Full RB)

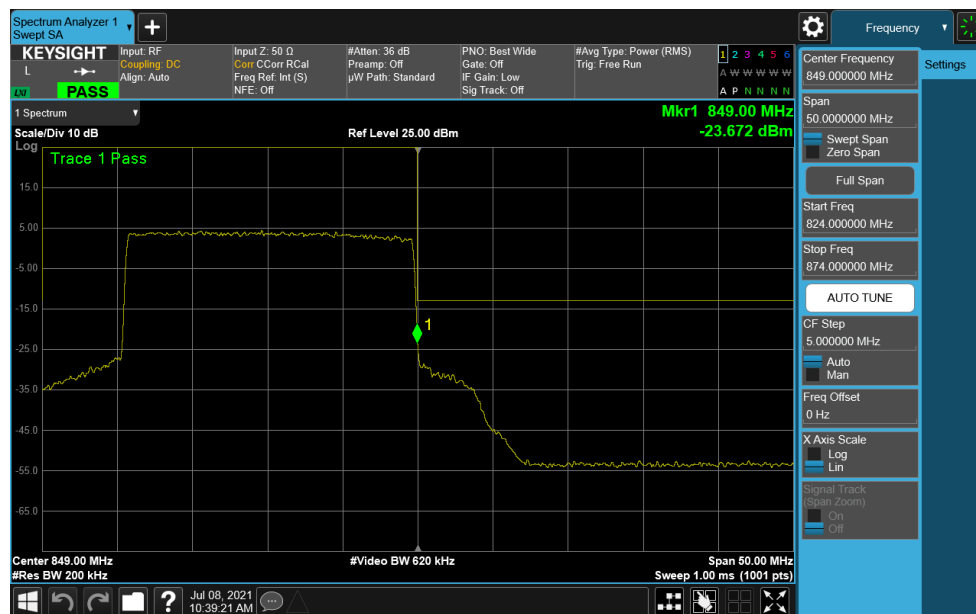


Plot 7-98. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

FCC ID: BCGA2568	PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 68 of 98



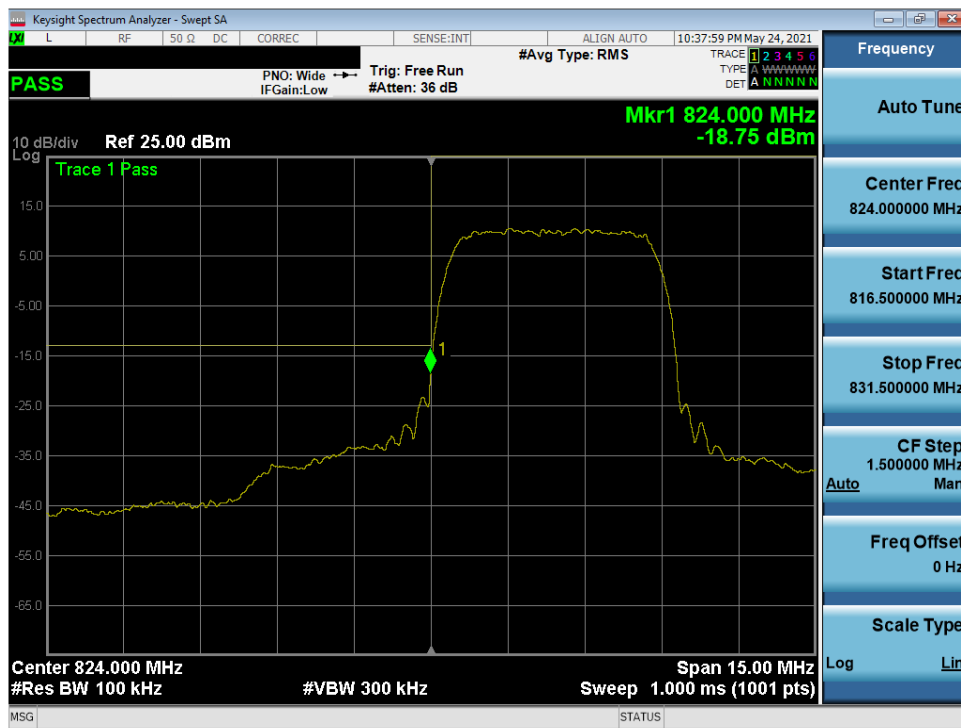
Plot 7-99. Lower BE Plot (NR Band n5 CP-OFDM QPSK – 20.0MHz - Full RB)



Plot 7-100. Upper BE Plot (NR Band n5 CP-OFDM QPSK – 20.0MHz - Full RB)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 69 of 98

WCDMA Cell



Plot 7-101. Lower BE Plot (WCDMA Cell – Ch. 4132)



Plot 7-102. Upper BE Plot (WCDMA Cell – Ch. 4233)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 70 of 98

7.5 Radiated Power (ERP/EIRP)

§22.913(a)(5)

Test Overview

Effective Radiated Power (ERP) and 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:

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

Where:

ERP/EIRP = Effective or Equivalent Isotropic Radiated Power, respectively (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 dBd (ERP) or dBi (EIRP)

Test Setup

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

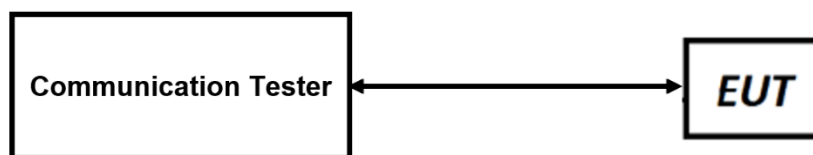


Figure 7-4. ERP/EIRP Measurement Setup

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 71 of 98

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 B5 is only supported in this EUT while operating in Power Class 3.
5. 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.
6. The Ant. Gains (GT) are listed in dBi.

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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7.5.1 Antenna 4 – ERP/EIRP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-1.10	1 / 0	25.54	22.29	0.169	38.45	-16.16	24.44	0.278	40.61	-16.17
		836.5	-1.10	1 / 0	25.62	22.37	0.173	38.45	-16.08	24.52	0.283	40.61	-16.09
		848.3	-1.10	1 / 0	25.51	22.26	0.168	38.45	-16.19	24.41	0.276	40.61	-16.20
	16-QAM	824.7	-1.10	1 / 0	25.03	21.78	0.151	38.45	-16.67	23.93	0.247	40.61	-16.68
	64-QAM	836.5	-1.10	1 / 0	24.05	20.80	0.120	38.45	-17.65	22.95	0.197	40.61	-17.66
3 MHz	QPSK	824.7	-1.10	1 / 0	21.08	17.83	0.061	38.45	-20.62	19.98	0.100	40.61	-20.63
		825.5	-1.10	1 / 0	25.63	22.38	0.173	38.45	-16.07	24.53	0.284	40.61	-16.08
		836.5	-1.10	1 / 0	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
	16-QAM	847.5	-1.10	1 / 0	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		847.5	-1.10	1 / 12	25.15	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56
5 MHz	QPSK	836.5	-1.10	1 / 24	24.12	20.87	0.122	38.45	-17.58	23.02	0.200	40.61	-17.59
		847.5	-1.10	1 / 0	21.18	17.93	0.062	38.45	-20.52	20.08	0.102	40.61	-20.53
		826.5	-1.10	1 / 12	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
	16-QAM	836.5	-1.10	1 / 0	25.34	22.09	0.162	38.45	-16.36	24.24	0.265	40.61	-16.37
		826.5	-1.10	1 / 0	24.38	21.13	0.130	38.45	-17.32	23.28	0.213	40.61	-17.33
10 MHz	QPSK	836.5	-1.10	1 / 0	21.01	17.76	0.060	38.45	-20.69	19.91	0.098	40.61	-20.70
		829.0	-1.10	1 / 12	25.55	22.30	0.170	38.45	-16.15	24.45	0.279	40.61	-16.16
		836.5	-1.10	1 / 0	25.61	22.36	0.172	38.45	-16.09	24.51	0.282	40.61	-16.10
	16-QAM	844.0	-1.10	1 / 12	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		844.0	-1.10	1 / 12	25.11	21.86	0.153	38.45	-16.59	24.01	0.252	40.61	-16.60
10 MHz	QPSK	836.5	-1.10	1 / 0	24.16	20.91	0.123	38.45	-17.54	23.06	0.202	40.61	-17.55
		844.0	-1.10	1 / 0	21.20	17.95	0.062	38.45	-20.50	20.10	0.102	40.61	-20.51
		844.0	-1.10	1 / 0	24.16	20.91	0.123	38.45	-17.54	23.06	0.202	40.61	-17.55
	16-QAM	836.5	-1.10	1 / 0	24.16	20.91	0.123	38.45	-17.54	23.06	0.202	40.61	-17.55
		844.0	-1.10	1 / 0	21.20	17.95	0.062	38.45	-20.50	20.10	0.102	40.61	-20.51

Table 7-2. Antenna 4 ERP/EIRP Data (LTE Band 26)

LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-1.10	1 / 0	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		836.5	-1.10	1 / 0	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		844.0	-1.10	1 / 0	25.64	22.39	0.173	38.45	-16.06	24.54	0.284	40.61	-16.07
	16-QAM	844.0	-1.10	1 / 0	24.69	21.44	0.139	38.45	-17.01	23.59	0.229	40.61	-17.02
	64-QAM	836.5	-1.10	1 / 5	24.19	20.94	0.124	38.45	-17.51	23.09	0.204	40.61	-17.52
3 MHz	QPSK	836.5	-1.10	1 / 5	21.16	17.91	0.062	38.45	-20.54	20.06	0.101	40.61	-20.55
		829.0	-1.10	1 / 14	25.69	22.44	0.175	38.45	-16.01	24.59	0.288	40.61	-16.02
		836.5	-1.10	1 / 7	25.60	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
	16-QAM	844.0	-1.10	1 / 0	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		829.0	-1.10	1 / 14	24.98	21.73	0.149	38.45	-16.72	23.88	0.244	40.61	-16.73
5 MHz	QPSK	836.5	-1.10	1 / 7	24.04	20.79	0.120	38.45	-17.66	22.94	0.197	40.61	-17.67
		829.0	-1.10	1 / 14	21.18	17.93	0.062	38.45	-20.52	20.08	0.102	40.61	-20.53
		829.0	-1.10	1 / 12	25.66	22.41	0.174	38.45	-16.04	24.56	0.286	40.61	-16.05
	16-QAM	844.0	-1.10	1 / 12	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		836.5	-1.10	1 / 0	25.27	22.02	0.159	38.45	-16.43	24.17	0.261	40.61	-16.44
10 MHz	QPSK	829.0	-1.10	1 / 0	24.25	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
		836.5	-1.10	25 / 0	20.96	17.71	0.059	38.45	-20.74	19.86	0.097	40.61	-20.75
		829.0	-1.10	1 / 25	25.60	22.35	0.172	38.45	-16.10	24.50	0.282	40.61	-16.11
	16-QAM	836.5	-1.10	1 / 25	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		844.0	-1.10	1 / 0	25.69	22.44	0.175	38.45	-16.01	24.59	0.288	40.61	-16.02
10 MHz	QPSK	844.0	-1.10	1 / 49	25.44	22.19	0.166	38.45	-16.26	24.34	0.272	40.61	-16.27
		829.0	-1.10	1 / 0	23.95	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
		844.0	-1.10	1 / 49	21.37	18.12	0.065	38.45	-20.33	20.27	0.106	40.61	-20.34
	16-QAM	844.0	-1.10	1 / 49	21.37	18.12	0.065	38.45	-20.33	20.27	0.106	40.61	-20.34
		829.0	-1.10	1 / 0	23.95	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76

Table 7-3. Antenna 4 ERP/EIRP Data (LTE Band 5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 73 of 98

NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	829.0	-1.10	1 / 12	25.26	22.01	0.159	38.45	-16.44	24.16	0.261	40.61	-16.45
		836.5	-1.10	1 / 1	25.31	22.06	0.161	38.45	-16.39	24.21	0.264	40.61	-16.40
		844.0	-1.10	1 / 12	25.09	21.84	0.153	38.45	-16.61	23.99	0.251	40.61	-16.61
	QPSK	829.0	-1.10	1 / 12	25.64	22.39	0.173	38.45	-16.07	24.54	0.284	40.61	-16.07
		836.5	-1.10	1 / 1	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		844.0	-1.10	1 / 23	25.65	22.40	0.174	38.45	-16.06	24.55	0.285	40.61	-16.06
	16-QAM	844.0	-1.10	1 / 23	24.95	21.70	0.148	38.45	-16.75	23.85	0.243	40.61	-16.76
	64-QAM	844.0	-1.10	1 / 12	24.01	20.76	0.119	38.45	-17.69	22.91	0.196	40.61	-17.69
	256-QAM	829.0	-1.10	1 / 12	22.08	18.83	0.076	38.45	-19.62	20.98	0.125	40.61	-19.63
10 MHz	π/2 BPSK	829.0	-1.10	1 / 48	25.57	22.32	0.171	38.45	-16.13	24.47	0.280	40.61	-16.13
		836.5	-1.10	1 / 48	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		844.0	-1.10	1 / 48	25.27	22.02	0.159	38.45	-16.43	24.17	0.261	40.61	-16.44
	QPSK	829.0	-1.10	1 / 1	25.45	22.20	0.166	38.45	-16.25	24.35	0.273	40.61	-16.25
		836.5	-1.10	1 / 1	25.36	22.11	0.163	38.45	-16.34	24.26	0.267	40.61	-16.35
		844.0	-1.10	1 / 1	25.19	21.94	0.156	38.45	-16.51	24.09	0.256	40.61	-16.52
	16-QAM	829.0	-1.10	1 / 1	24.49	21.24	0.133	38.45	-17.21	23.39	0.219	40.61	-17.21
	64-QAM	836.5	-1.10	1 / 48	23.88	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.83
	256-QAM	829.0	-1.10	1 / 1	21.95	18.70	0.074	38.45	-19.75	20.85	0.122	40.61	-19.76
15 MHz	π/2 BPSK	831.5	-1.10	1 / 1	25.30	22.05	0.160	38.45	-16.40	24.20	0.263	40.61	-16.41
		836.5	-1.10	1 / 75	25.57	22.32	0.171	38.45	-16.13	24.47	0.280	40.61	-16.14
		841.5	-1.10	1 / 1	24.97	21.72	0.149	38.45	-16.73	23.87	0.244	40.61	-16.73
	QPSK	831.5	-1.10	1 / 75	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
		836.5	-1.10	1 / 73	25.52	22.27	0.169	38.45	-16.18	24.42	0.276	40.61	-16.19
		841.5	-1.10	1 / 75	25.51	22.26	0.168	38.45	-16.20	24.41	0.276	40.61	-16.20
	16-QAM	831.5	-1.10	1 / 1	24.54	21.29	0.134	38.45	-17.16	23.44	0.221	40.61	-17.17
	64-QAM	831.5	-1.10	1 / 75	24.00	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	256-QAM	836.5	-1.10	1 / 1	21.94	18.69	0.074	38.45	-19.76	20.84	0.121	40.61	-19.77
20 MHz	π/2 BPSK	834.0	-1.10	1 / 1	25.39	22.14	0.164	38.45	-16.31	24.29	0.268	40.61	-16.32
		836.5	-1.10	1 / 50	25.57	22.32	0.170	38.45	-16.13	24.47	0.280	40.61	-16.14
		839.0	-1.10	1 / 1	25.27	22.02	0.159	38.45	-16.43	24.17	0.261	40.61	-16.43
	QPSK	834.0	-1.10	1 / 50	25.43	22.18	0.165	38.45	-16.27	24.33	0.271	40.61	-16.27
		836.5	-1.10	1 / 1	25.50	22.25	0.168	38.45	-16.20	24.40	0.275	40.61	-16.21
		839.0	-1.10	1 / 1	25.70	22.45	0.176	38.45	-16.00	24.60	0.288	40.61	-16.01
	16-QAM	836.5	-1.10	1 / 1	24.65	21.40	0.138	38.45	-17.05	23.55	0.227	40.61	-17.05
	64-QAM	836.5	-1.10	1 / 50	23.97	20.72	0.118	38.45	-17.73	22.87	0.193	40.61	-17.74
	256-QAM	836.5	-1.10	1 / 50	21.92	18.67	0.074	38.45	-19.78	20.82	0.121	40.61	-19.79

Table 7-4. Antenna 4 ERP/EIRP Data (NR Band n5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 74 of 98

ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	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 B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	25.37	-1.10	22.12	0.163	38.45	-16.33	24.27	0.267	40.61	-16.34
				20475	831.5	1	49		20574	841.4	1	0	25.29	-1.10	22.04	0.160	38.45	-16.41	24.19	0.262	40.61	-16.42
				20500	844.0	1	0		20501	834.1	1	49	25.45	-1.10	22.20	0.166	38.45	-16.25	24.35	0.272	40.61	-16.26
				20500	844	50	0		20501	834.1	50	0	24.31	-1.10	21.06	0.128	38.45	-17.39	23.21	0.209	40.61	-17.40
			16-QAM	20500	844	50	0	16-QAM	20501	834.1	50	0	24.05	-1.10	20.80	0.120	38.45	-17.65	22.95	0.197	40.61	-17.66
			64-QAM	20500	844	50	0	64-QAM	20501	834.1	50	0	24.36	-1.10	21.11	0.129	38.45	-17.34	23.26	0.212	40.61	-17.35
			256-QAM	20500	844	50	0	256-QAM	20501	834.1	50	0	23.98	-1.10	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73

Table 7-5. Antenna 4 ERP/EIRP Data (ULCA LTE Band 5)

WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.53	-1.10	22.28	0.169	38.45	-16.17	24.43	0.277	40.61	-16.18
836.60	WCDMA850	25.52	-1.10	22.27	0.169	38.45	-16.18	24.42	0.277	40.61	-16.19
846.60	WCDMA850	25.54	-1.10	22.29	0.169	38.45	-16.16	24.44	0.278	40.61	-16.17

Table 7-6. Antenna 4 ERP/EIRP Data (WCDMA Cell)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 75 of 98

7.5.2 Antenna 2 – ERP/EIRP

LTE Band 26

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-2.00	1 / 0	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		836.5	-2.00	1 / 0	25.15	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
		848.3	-2.00	1 / 0	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
	16-QAM	836.5	-2.00	1 / 0	24.65	20.50	0.112	38.45	-17.95	22.65	0.184	40.61	-17.96
		848.3	-2.00	1 / 0	23.94	19.79	0.095	38.45	-18.66	21.94	0.156	40.61	-18.67
3 MHz	QPSK	848.3	-2.00	1 / 0	21.05	16.90	0.049	38.45	-21.55	19.05	0.080	40.61	-21.56
		825.5	-2.00	1 / 24	25.19	21.04	0.127	38.45	-17.41	23.19	0.208	40.61	-17.42
		836.5	-2.00	1 / 24	25.17	21.02	0.126	38.45	-17.43	23.17	0.207	40.61	-17.44
	16-QAM	847.5	-2.00	1 / 12	25.13	20.98	0.125	38.45	-17.47	23.13	0.206	40.61	-17.48
		825.5	-2.00	1 / 24	24.60	20.45	0.111	38.45	-18.00	22.60	0.182	40.61	-18.01
5 MHz	QPSK	836.5	-2.00	1 / 12	24.60	20.45	0.111	38.45	-18.00	22.60	0.182	40.61	-18.01
		836.5	-2.00	1 / 24	23.93	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.68
		836.5	-2.00	1 / 12	20.72	16.57	0.045	38.45	-21.88	18.72	0.074	40.61	-21.89
	16-QAM	826.5	-2.00	1 / 0	25.08	20.93	0.124	38.45	-17.52	23.08	0.203	40.61	-17.53
		836.5	-2.00	1 / 24	25.19	21.04	0.127	38.45	-17.41	23.19	0.208	40.61	-17.42
10 MHz	QPSK	846.5	-2.00	1 / 12	25.14	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
		826.5	-2.00	1 / 12	24.84	20.69	0.117	38.45	-17.76	22.84	0.192	40.61	-17.77
		826.5	-2.00	1 / 0	24.27	20.12	0.103	38.45	-18.33	22.27	0.169	40.61	-18.34
	16-QAM	826.5	-2.00	1 / 12	21.00	16.85	0.048	38.45	-21.60	19.00	0.079	40.61	-21.61
		829.0	-2.00	1 / 12	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41

Table 7-7. Antenna 2 ERP/EIRP Data (LTE Band 26)

LTE Band 5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	829.0	-2.00	1 / 0	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		836.5	-2.00	1 / 0	25.16	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
		844.0	-2.00	1 / 3	25.17	21.02	0.126	38.45	-17.43	23.17	0.207	40.61	-17.44
	16-QAM	836.5	-2.00	1 / 0	24.65	20.50	0.112	38.45	-17.95	22.65	0.184	40.61	-17.96
		844.0	-2.00	1 / 3	23.93	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.68
3 MHz	QPSK	844.0	-2.00	1 / 3	21.11	16.96	0.050	38.45	-21.49	19.11	0.081	40.61	-21.50
		829.0	-2.00	1 / 0	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		836.5	-2.00	1 / 7	25.17	21.02	0.126	38.45	-17.43	23.17	0.207	40.61	-17.44
	16-QAM	844.0	-2.00	1 / 7	25.18	21.03	0.127	38.45	-17.42	23.18	0.208	40.61	-17.43
		836.5	-2.00	1 / 7	24.61	20.46	0.111	38.45	-17.99	22.61	0.182	40.61	-18.00
5 MHz	QPSK	836.5	-2.00	1 / 7	23.93	19.78	0.095	38.45	-18.67	21.93	0.156	40.61	-18.68
		836.5	-2.00	1 / 7	20.73	16.58	0.045	38.45	-21.87	18.73	0.075	40.61	-21.88
		829.0	-2.00	1 / 12	25.18	21.03	0.127	38.45	-17.42	23.18	0.208	40.61	-17.43
	16-QAM	836.5	-2.00	1 / 0	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		844.0	-2.00	1 / 12	25.18	21.03	0.127	38.45	-17.42	23.18	0.208	40.61	-17.43
10 MHz	QPSK	844.0	-2.00	1 / 24	24.65	20.50	0.112	38.45	-17.95	22.65	0.184	40.61	-17.96
		829.0	-2.00	1 / 12	24.02	19.87	0.097	38.45	-18.58	22.02	0.159	40.61	-18.59
		829.0	-2.00	1 / 12	21.05	16.90	0.049	38.45	-21.55	19.05	0.080	40.61	-21.56
	16-QAM	829.0	-2.00	1 / 25	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		836.5	-2.00	1 / 49	25.15	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46

Table 7-8. Antenna 2 ERP/EIRP Data (LTE Band 5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 76 of 98

NR Band n5

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	829.0	-2.00	1 / 23	24.75	20.60	0.115	38.45	-17.85	22.75	0.189	40.61	-17.85
		836.5	-2.00	1 / 12	24.70	20.55	0.114	38.45	-17.90	22.70	0.186	40.61	-17.91
		844.0	-2.00	1 / 12	24.92	20.77	0.119	38.45	-17.68	22.92	0.196	40.61	-17.69
	QPSK	829.0	-2.00	1 / 1	25.02	20.87	0.122	38.45	-17.58	23.02	0.200	40.61	-17.59
		836.5	-2.00	1 / 12	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		844.0	-2.00	1 / 1	24.82	20.67	0.117	38.45	-17.78	22.82	0.191	40.61	-17.79
	16-QAM	836.5	-2.00	1 / 1	23.96	19.81	0.096	38.45	-18.64	21.96	0.157	40.61	-18.65
10 MHz	π/2 BPSK	829.0	-2.00	1 / 1	23.38	19.23	0.084	38.45	-19.22	21.38	0.137	40.61	-19.23
		836.5	-2.00	1 / 75	21.44	17.29	0.054	38.45	-21.16	19.44	0.088	40.61	-21.17
		844.0	-2.00	1 / 1	24.97	20.82	0.121	38.45	-17.63	22.97	0.198	40.61	-17.64
	QPSK	836.5	-2.00	1 / 25	24.78	20.63	0.116	38.45	-17.82	22.78	0.190	40.61	-17.82
		844.0	-2.00	1 / 25	25.10	20.95	0.125	38.45	-17.50	23.10	0.204	40.61	-17.50
		829.0	-2.00	1 / 25	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
	16-QAM	836.5	-2.00	1 / 25	25.00	20.85	0.122	38.45	-17.60	23.00	0.199	40.61	-17.61
15 MHz	QPSK	844.0	-2.00	1 / 1	25.00	20.85	0.122	38.45	-17.60	23.00	0.200	40.61	-17.60
		829.0	-2.00	1 / 25	23.98	19.83	0.096	38.45	-18.62	21.98	0.158	40.61	-18.63
		836.5	-2.00	1 / 1	23.38	19.23	0.084	38.45	-19.22	21.38	0.138	40.61	-19.22
	16-QAM	829.0	-2.00	1 / 1	21.34	17.19	0.052	38.45	-21.26	19.34	0.086	40.61	-21.27
		831.5	-2.00	1 / 73	25.09	20.94	0.124	38.45	-17.51	23.09	0.204	40.61	-17.51
		841.5	-2.00	1 / 1	25.05	20.90	0.123	38.45	-17.55	23.05	0.202	40.61	-17.56
	256-QAM	841.5	-2.00	1 / 73	25.11	20.96	0.125	38.45	-17.49	23.11	0.205	40.61	-17.49
20 MHz	QPSK	831.5	-2.00	1 / 73	25.16	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
		836.5	-2.00	1 / 73	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		841.5	-2.00	1 / 1	25.02	20.87	0.122	38.45	-17.58	23.02	0.201	40.61	-17.59
	16-QAM	841.5	-2.00	1 / 75	23.83	19.68	0.093	38.45	-18.77	21.83	0.152	40.61	-18.78
		836.5	-2.00	1 / 73	23.33	19.18	0.083	38.45	-19.27	21.33	0.136	40.61	-19.28
		831.5	-2.00	1 / 73	21.33	17.18	0.052	38.45	-21.27	19.33	0.086	40.61	-21.27
	256-QAM	831.5	-2.00	1 / 73	21.33	17.18	0.052	38.45	-21.27	19.33	0.086	40.61	-21.27
20 MHz	π/2 BPSK	834.0	-2.00	1 / 98	25.03	20.88	0.123	38.45	-17.57	23.03	0.201	40.61	-17.57
		836.5	-2.00	1 / 50	25.20	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
		839.0	-2.00	1 / 50	24.64	20.49	0.112	38.45	-17.97	22.64	0.183	40.61	-17.97
	QPSK	834.0	-2.00	1 / 1	24.91	20.76	0.119	38.45	-17.69	22.91	0.196	40.61	-17.69
		836.5	-2.00	1 / 1	24.79	20.64	0.116	38.45	-17.81	22.79	0.190	40.61	-17.82
		839.0	-2.00	1 / 1	24.77	20.62	0.115	38.45	-17.83	22.77	0.189	40.61	-17.83
	16-QAM	834.0	-2.00	1 / 1	23.90	19.75	0.094	38.45	-18.70	21.90	0.155	40.61	-18.71
20 MHz	64-QAM	834.0	-2.00	1 / 1	23.33	19.18	0.083	38.45	-19.27	21.33	0.136	40.61	-19.27
		836.5	-2.00	1 / 1	21.24	17.09	0.051	38.45	-21.36	19.24	0.084	40.61	-21.36

Table 7-9. Antenna 2 ERP/EIRP Data (NR Band n5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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ULCA - LTE Band 5

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	ERP 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 B5	10MHz + 10MHz	QPSK	20450	829.0	1	49	QPSK	20549	838.9	1	0	25.20	-2.00	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
				20475	831.5	1	49		20574	841.4	1	0	25.13	-2.00	20.98	0.125	38.45	-17.47	23.13	0.206	40.61	-17.48
				20500	844.0	1	0		20501	834.1	1	49	25.20	-2.00	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
				20450	829	50	0		QPSK	20549	838.9	50	0	23.02	-2.00	18.87	0.077	38.45	-19.58	21.02	0.126	40.61
			16-QAM	20450	829	50	0	16-QAM	20549	838.9	50	0	22.10	-2.00	17.95	0.062	38.45	-20.50	20.10	0.102	40.61	-20.51
			64-QAM	20450	829	50	0	64-QAM	20549	838.9	50	0	21.12	-2.00	16.97	0.050	38.45	-21.48	19.12	0.082	40.61	-21.49
			256-QAM	20450	829	50	0	256-QAM	20549	838.9	50	0	20.09	-2.00	15.94	0.039	38.45	-22.51	18.09	0.064	40.61	-22.52

Table 7-10. Antenna 2 ERP/EIRP Data (ULCA LTE Band 5)

WCDMA Cell

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	24.91	-2.00	20.76	0.119	38.45	-17.69	22.91	0.195	40.61	-17.70
836.60	WCDMA850	24.89	-2.00	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
846.60	WCDMA850	24.87	-2.00	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74

Table 7-11. Antenna 2 ERP/EIRP Data (WCDMA Cell)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6 Radiated Spurious Emissions

§2.1053, 22.917(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.

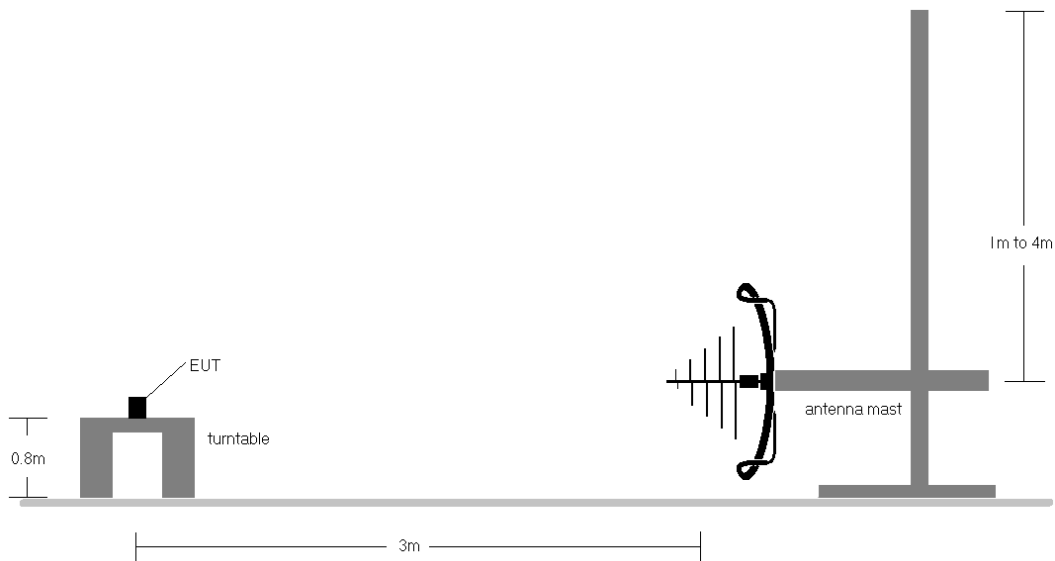


Figure 7-5. Test Instrument & Measurement Setup < 1GHz

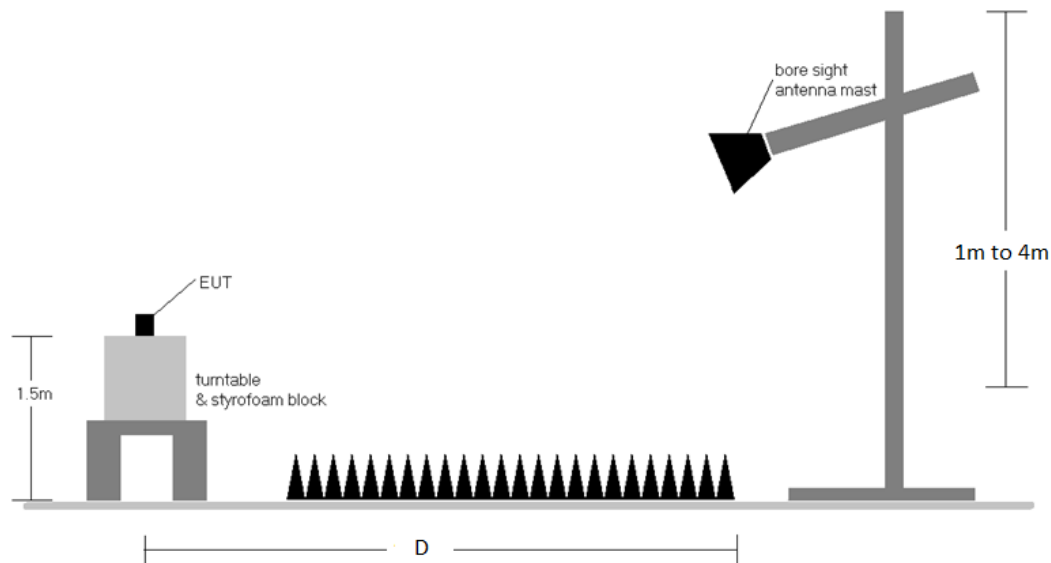


Figure 7-6. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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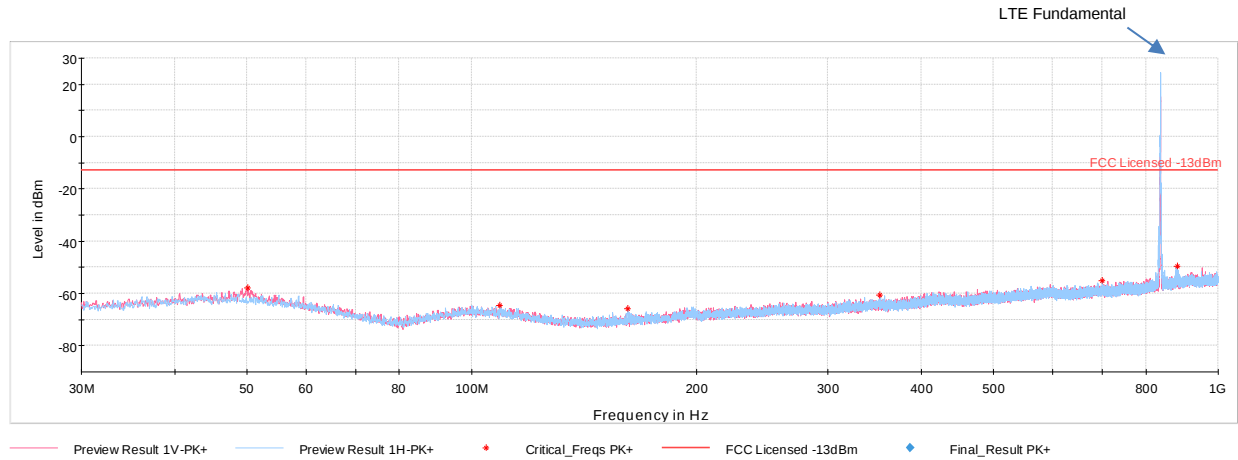
Test Notes

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. 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.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. ULCA spurious emissions 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.
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.

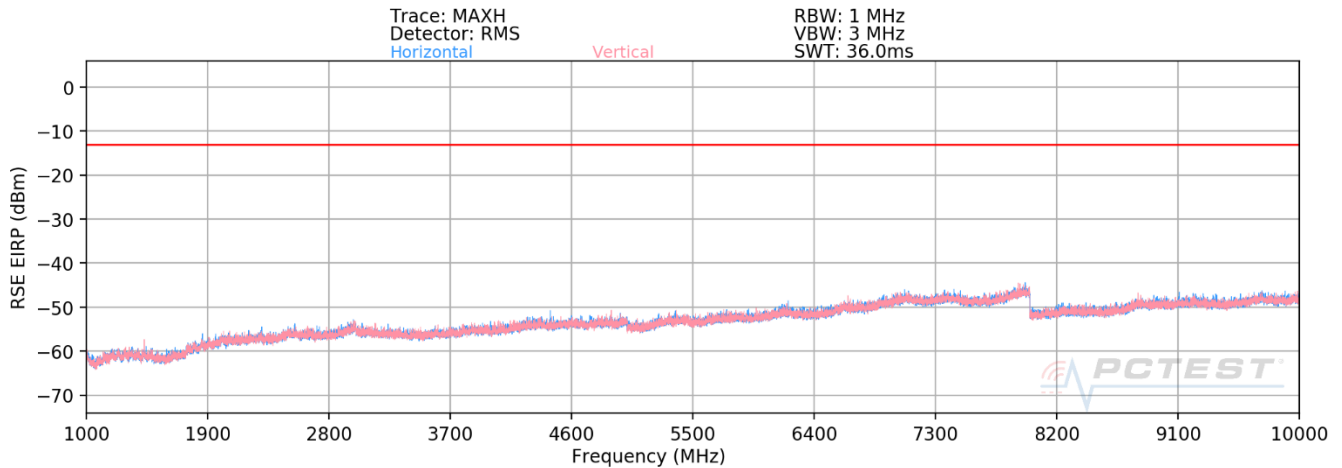
FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6.1 Antenna 4 – Radiated Spurious Emission Measurements

LTE Band 26/5



Plot 7-103. Antenna 4 Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-104. Antenna 4 Radiated Spurious Plot above 1GHz (LTE Band 26/5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 82 of 98

Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 37

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]
1658.0	H	-	-	-77.31	-1.20	28.49	-66.76	-13.00	-53.76
2487.0	H	319	191	-67.77	4.83	44.06	-51.20	-13.00	-38.20
3316.0	H	-	-	-77.80	5.16	34.36	-60.90	-13.00	-47.90
4145.0	H	-	-	-78.79	7.88	36.09	-59.17	-13.00	-46.17
4974.0	H	-	-	-79.48	8.27	35.79	-59.47	-13.00	-46.47

Table 7-12. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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]
1673.0	H	128	153	-75.93	-0.95	30.12	-65.14	-13.00	-52.14
2509.5	H	357	194	-62.06	4.63	49.57	-45.69	-13.00	-32.69
3346.0	H	-	-	-78.12	5.26	34.14	-61.12	-13.00	-48.12
4182.5	H	-	-	-78.92	7.52	35.60	-59.65	-13.00	-46.65
5019.0	H	-	-	-79.50	8.54	36.04	-59.21	-13.00	-46.21

Table 7-13. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

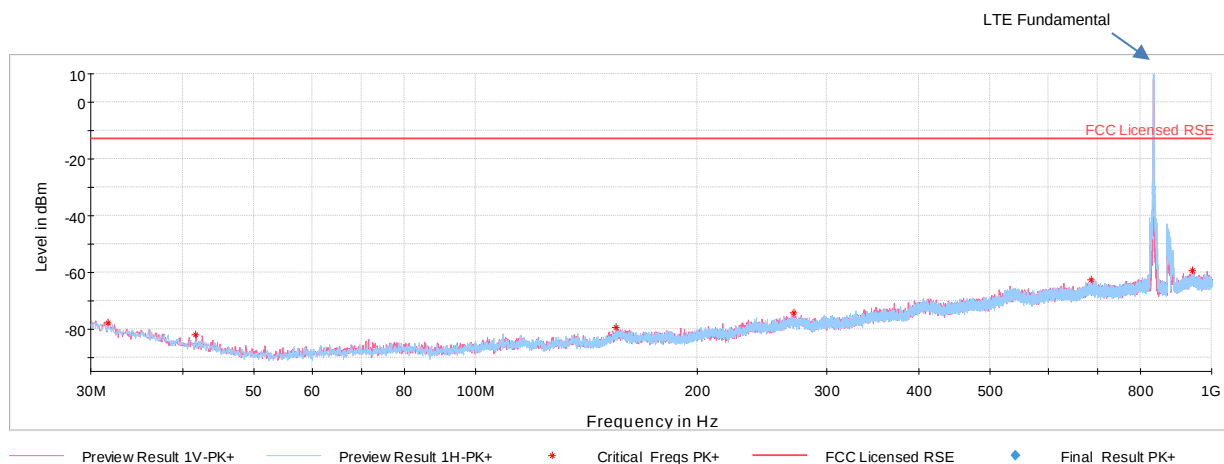
Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 37

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]
1688.0	H	-	-	-76.88	7.11	37.23	-58.03	-13.00	-45.03
2532.0	H	-	-	-77.05	11.21	41.16	-54.10	-13.00	-41.10
3376.0	H	-	-	-77.77	12.76	41.99	-53.26	-13.00	-40.26

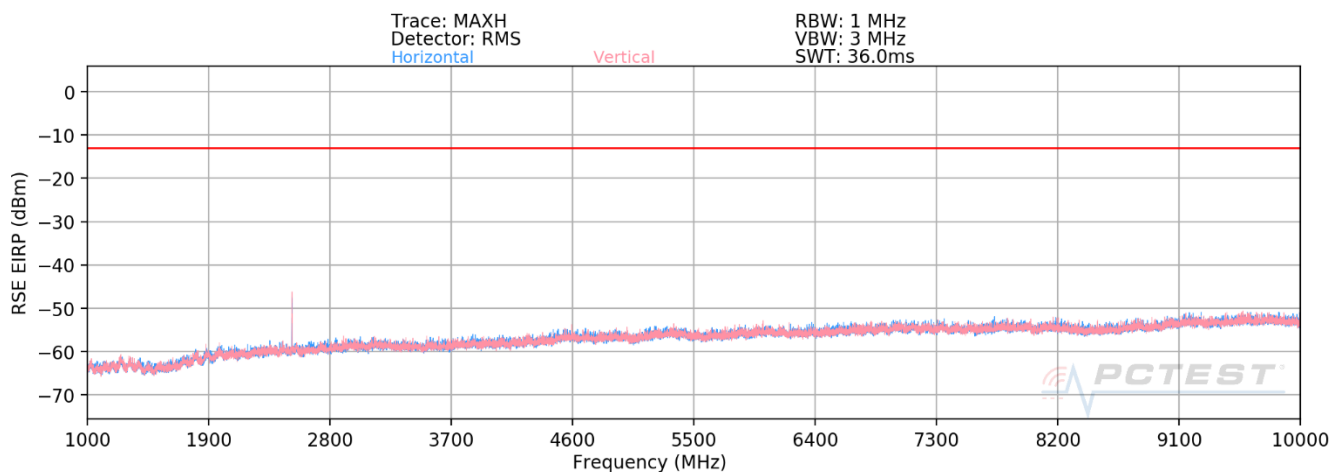
Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – High Channel)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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ULCA LTE Band 5



Plot 7-105. Antenna 4 Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)



Plot 7-106. Antenna 4 Radiated Spurious Plot above 1GHz (ULCA LTE Band 5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 84 of 98

PCC Bandwidth (MHz):	10								
PCC Frequency (MHz):	829.0								
PCC RB / Offset:	1 / 49								
SCC Bandwidth (MHz):	10								
SCC Frequency (MHz):	838.9								
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]
1658.0	V	-	-	-77.26	-2.84	26.90	-68.35	-13.00	-55.35
2487.0	V	396	171	-64.12	1.69	44.57	-50.69	-13.00	-37.69
3316.0	V	-	-	-79.20	3.35	31.15	-64.11	-13.00	-51.11
4145.0	V	-	-	-79.19	4.83	32.64	-62.61	-13.00	-49.61
4974.0	V	-	-	-80.39	6.35	32.96	-62.30	-13.00	-49.30

Table 7-15. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

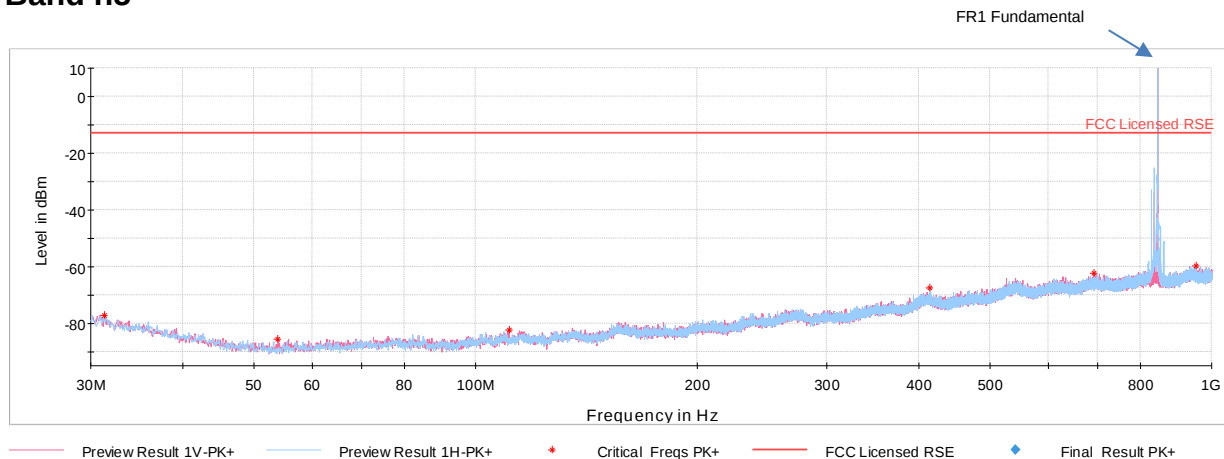
PCC Bandwidth (MHz):	10								
PCC Frequency (MHz):	844.0								
PCC RB / Offset:	1 / 0								
SCC Bandwidth (MHz):	10								
SCC Frequency (MHz):	834.1								
SCC RB / Offset:	1 / 49								

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]
1688.0	V	-	-	-77.55	-2.34	27.11	-68.14	-13.00	-55.14
2532.0	V	350	154	-62.76	1.93	46.17	-49.09	-13.00	-36.09
3376.0	V	-	-	-79.16	3.45	31.29	-63.96	-13.00	-50.96
4220.0	V	-	-	-79.73	5.31	32.58	-62.67	-13.00	-49.67
5064.0	V	-	-	-80.68	6.62	32.94	-62.32	-13.00	-49.32

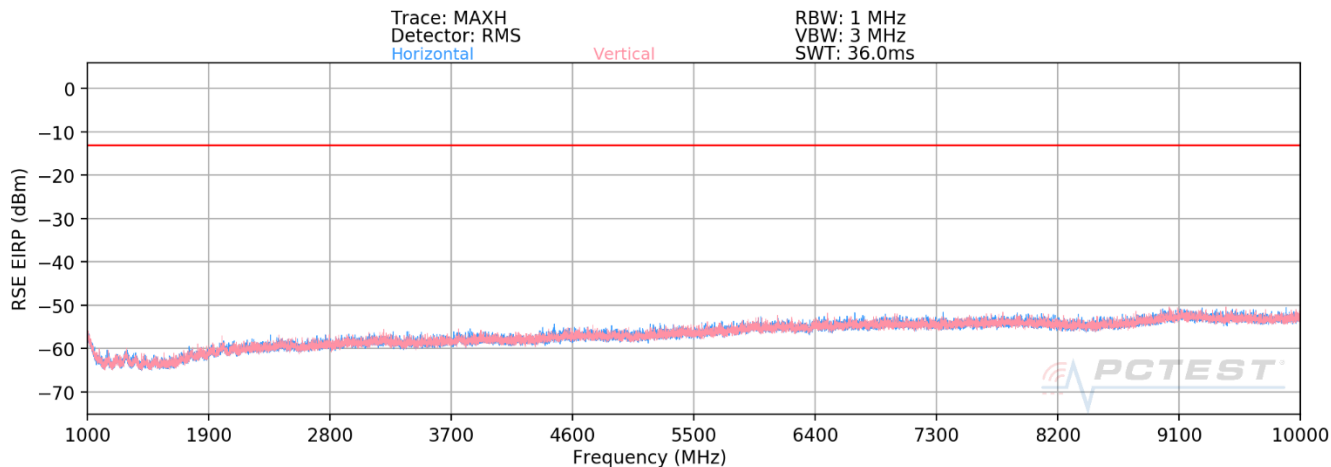
Table 7-16. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
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NR Band n5



Plot 7-107. Antenna 4 Radiated Spurious Plot below 1GHz (NR Band n5)



Plot 7-108. Antenna 4 Radiated Spurious Plot above 1GHz (NR Band n5)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 86 of 98

Bandwidth (MHz):	20								
Frequency (MHz):	834.0								
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]
1668.0	V	350	201	-75.87	-2.85	28.28	-66.98	-13.00	-53.98
2502.0	V	-	-	-77.72	1.52	30.80	-64.46	-13.00	-51.46
3336.0	V	-	-	-78.60	2.78	31.18	-64.08	-13.00	-51.08
4170.0	V	-	-	-78.71	4.33	32.62	-62.63	-13.00	-49.63

Table 7-17. Antenna 4 Radiated Spurious Data (NR Band n5 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	836.5								
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]
1673.0	V	346	220	-76.19	-2.75	28.06	-67.20	-13.00	-54.20
2509.5	V	-	-	-77.68	1.53	30.85	-64.41	-13.00	-51.41
3346.0	V	-	-	-78.43	2.80	31.37	-63.88	-13.00	-50.88
4182.5	V	-	-	-78.92	4.22	32.30	-62.95	-13.00	-49.95

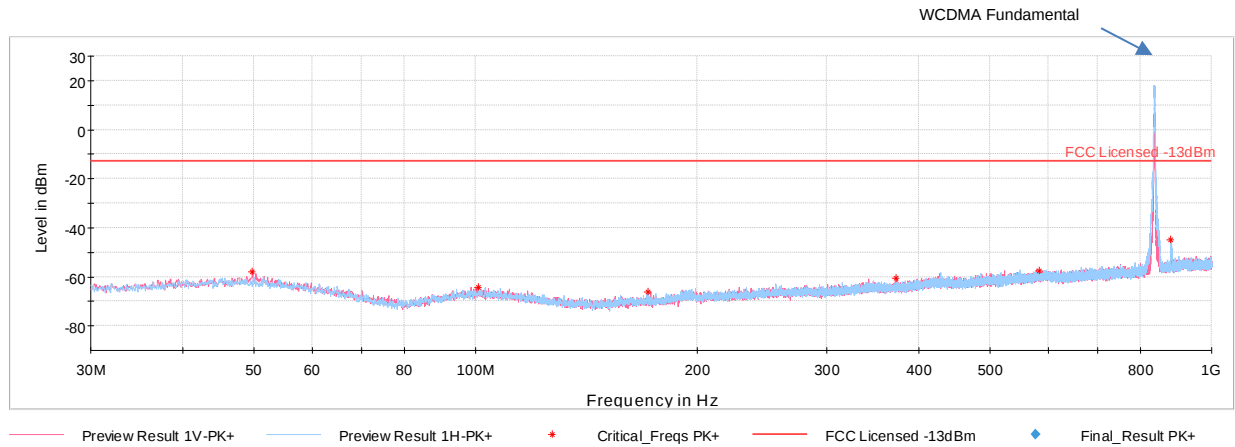
Table 7-18. Antenna 4 Radiated Spurious Data (NR Band n5 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	839.0								
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]
1678.0	V	384	198	-75.97	-2.62	28.41	-66.84	-13.00	-53.84
2517.0	V	-	-	-77.60	1.55	30.95	-64.31	-13.00	-51.31
3356.0	V	-	-	-78.50	2.87	31.37	-63.89	-13.00	-50.89
4195.0	V	-	-	-78.76	4.43	32.67	-62.59	-13.00	-49.59

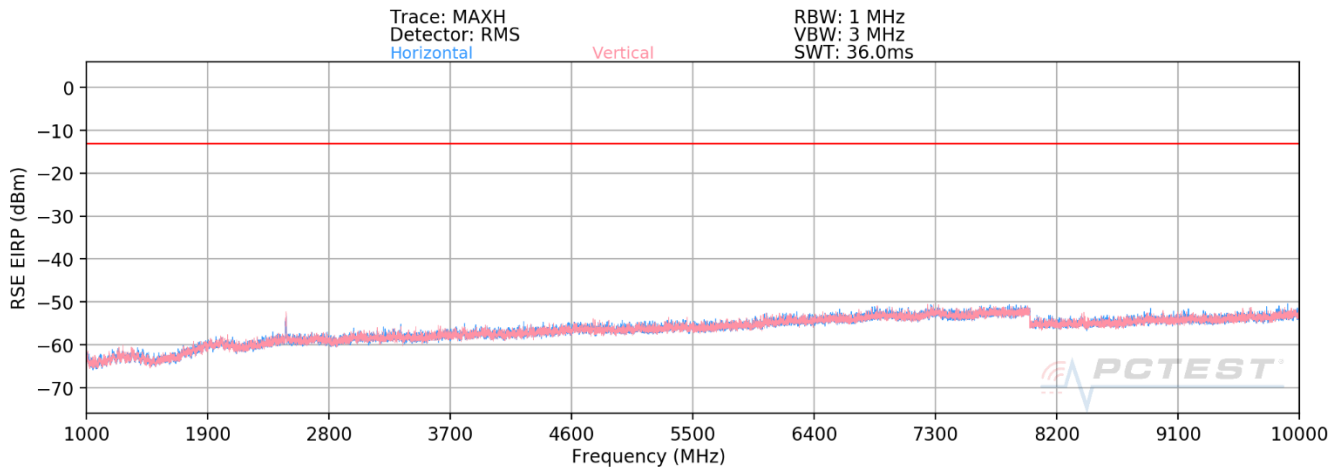
Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n5 – High Channel)

FCC ID: BCGA2568	 PART 22 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-01.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 87 of 98

WCDMA Cell



Plot 7-109. Antenna 4 Radiated Spurious Plot below 1GHz (WCDMA Cell)



Plot 7-110. Antenna 4 Radiated Spurious Plot above 1GHz (WCDMA Cell)

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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.8	V	-	-	-77.20	-2.05	27.75	-67.50	-13.00	-54.50
2479.2	V	269	-180	-76.42	2.98	33.56	-61.69	-13.00	-48.69
3305.6	V	-	-	-78.64	4.57	32.93	-62.33	-13.00	-49.33
4132.0	V	-	-	-78.40	5.59	34.19	-61.07	-13.00	-48.07
4958.4	V	-	-	-78.85	7.03	35.18	-60.08	-13.00	-47.08

Table 7-20. Antenna 4 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.2	V	-	-	-77.09	-2.13	27.78	-67.48	-13.00	-54.48
2509.8	V	-	-	-77.63	2.95	32.32	-62.94	-13.00	-49.94
3346.4	V	-	-	-78.68	4.35	32.67	-62.58	-13.00	-49.58
4183.0	V	-	-	-78.29	5.38	34.09	-61.17	-13.00	-48.17

Table 7-21. Antenna 4 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.2	V	-	-	-77.18	-1.66	28.16	-67.10	-13.00	-54.10
2539.8	V	-	-	-77.48	2.77	32.29	-62.96	-13.00	-49.96
3386.4	V	-	-	-78.64	4.55	32.91	-62.35	-13.00	-49.35
4233.0	V	-	-	-78.45	5.58	34.13	-61.12	-13.00	-48.12

Table 7-22. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)

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7.6.2 Antenna 2 – Radiated Spurious Emission Measurements

LTE Band 26/5

Bandwidth (MHz):	10								
Frequency (MHz):	829.0								
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]
1658.0	V	-	-	-78.96	-1.05	26.99	-68.27	-13.00	-55.27
2487.0	V	-	-	-80.03	4.77	31.74	-63.52	-13.00	-50.52
3316.0	V	-	-	-79.81	5.16	32.35	-62.91	-13.00	-49.91
4145.0	V	-	-	-80.91	8.08	34.17	-61.09	-13.00	-48.09

Table 7-23. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	836.5								
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]
1673.0	V	-	-	-78.75	-1.01	27.24	-68.02	-13.00	-55.02
2509.5	V	-	-	-79.72	4.75	32.03	-63.23	-13.00	-50.23
3346.0	V	-	-	-80.07	5.25	32.18	-63.07	-13.00	-50.07
4182.5	V	-	-	-80.70	7.68	33.98	-61.28	-13.00	-48.28

Table 7-24. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	844.0								
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]
1688.0	V	-	-	-78.65	-0.83	27.52	-67.73	-13.00	-54.73
2532.0	V	-	-	-79.69	4.20	31.51	-63.75	-13.00	-50.75
3376.0	V	-	-	-79.50	5.43	32.93	-62.33	-13.00	-49.33
4220.0	V	-	-	-80.10	7.34	34.24	-61.02	-13.00	-48.02

Table 7-25. Antenna 2 Radiated Spurious Data (LTE Band 26/5 – High Channel)

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ULCA LTE Band 5

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	829.0
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	838.9
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]
1658.0	H	133	130	-76.69	-2.84	27.47	-67.78	-13.00	-54.78
2487.0	H	-	-	-78.83	1.69	29.86	-65.40	-13.00	-52.40
3316.0	H	-	-	-79.15	3.35	31.20	-64.06	-13.00	-51.06
4145.0	H	-	-	-79.00	4.83	32.83	-62.42	-13.00	-49.42

Table 7-26. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	5
PCC Frequency (MHz):	844.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	834.1
SCC RB / Offset:	1 / 49

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]
1688.0	H	179	124	-76.85	-2.34	27.81	-67.44	-13.00	-54.44
2532.0	H	-	-	-78.84	1.93	30.09	-65.17	-13.00	-52.17
3376.0	H	-	-	-79.24	3.45	31.21	-64.04	-13.00	-51.04
4220.0	H	-	-	-80.21	5.31	32.10	-63.15	-13.00	-50.15

Table 7-27. Antenna 2 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

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NR Band n5

Bandwidth (MHz):	20								
Frequency (MHz):	834.0								
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]
1668.0	H	167	174	-76.22	-2.85	27.93	-67.33	-13.00	-54.33
2502.0	H	-	-	-77.72	1.52	30.80	-64.46	-13.00	-51.46
3336.0	H	-	-	-78.53	2.78	31.25	-64.01	-13.00	-51.01
4170.0	H	-	-	-78.94	4.33	32.39	-62.86	-13.00	-49.86

Table 7-28. Antenna 2 Radiated Spurious Data (NR Band n5 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	836.5								
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]
1673.0	H	203	176	-75.59	-2.75	28.66	-66.60	-13.00	-53.60
2509.5	H	-	-	-77.63	1.53	30.90	-64.36	-13.00	-51.36
3346.0	H	-	-	-77.81	2.80	31.99	-63.26	-13.00	-50.26
4182.5	H	-	-	-78.58	4.22	32.64	-62.61	-13.00	-49.61

Table 7-29. Antenna 2 Radiated Spurious Data (NR Band n5 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	839.0								
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]
1678.0	H	22	164	-75.86	-2.62	28.52	-66.73	-13.00	-53.73
2517.0	H	-	-	-77.55	1.55	31.00	-64.26	-13.00	-51.26
3356.0	H	-	-	-78.58	2.87	31.29	-63.97	-13.00	-50.97
4195.0	H	-	-	-78.64	4.43	32.79	-62.47	-13.00	-49.47

Table 7-30. Antenna 2 Radiated Spurious Data (NR Band n5 – High Channel)

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WCDMA Cell

Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.8	H	-	-	-77.12	-2.05	27.83	-67.42	-13.00	-54.42
2479.2	H	-	-	-77.68	2.98	32.30	-62.95	-13.00	-49.95
3305.6	H	-	-	-78.53	4.57	33.04	-62.22	-13.00	-49.22
4132.0	H	-	-	-78.41	5.59	34.18	-61.08	-13.00	-48.08

Table 7-31. Antenna 2 Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.2	H	-	-	-77.07	-2.13	27.80	-67.46	-13.00	-54.46
2509.8	H	-	-	-77.57	2.95	32.38	-62.88	-13.00	-49.88
3346.4	H	-	-	-78.56	4.35	32.79	-62.46	-13.00	-49.46
4183.0	H	-	-	-78.26	5.38	34.12	-61.14	-13.00	-48.14

Table 7-32. Antenna 2 Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.2	H	-	-	-77.24	-1.66	28.10	-67.16	-13.00	-54.16
2539.8	H	-	-	-77.65	2.77	32.12	-63.13	-13.00	-50.13
3386.4	H	-	-	-78.60	4.55	32.95	-62.31	-13.00	-49.31
4233.0	H	-	-	-78.30	5.58	34.28	-60.97	-13.00	-47.97

Table 7-33. Antenna 2 Radiated Spurious Data (WCDMA Cell – High Channel)

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7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance 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.

For Part 22, the Frequency Tolerance of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

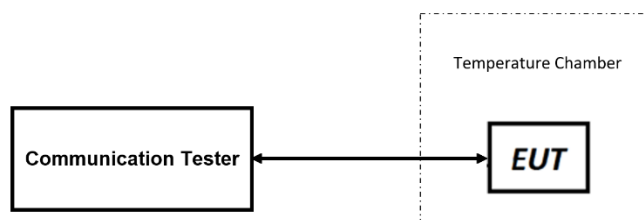


Figure 7-7. Test Instrument & Measurement Setup

Test Notes

- All port were tested and only the worst case data were reported.
- Only the worst-case NR bands with a wider bandwidth compared to LTE have been tested and reported. NR bands that have similar bandwidths as LTE is covered by the LTE bands.

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Frequency Tolerance / Temperature Variation

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,000	-1	-0.0000001
		- 20	836,499,997	-3	-0.0000004
		- 10	836,499,998	-2	-0.0000002
		0	836,499,999	-1	-0.0000001
		+ 10	836,499,997	-3	-0.0000004
		+ 20 (Ref)	836,499,998	-2	-0.0000002
		+ 30	836,499,997	-3	-0.0000004
		+ 40	836,499,997	-3	-0.0000004
		+ 50	836,499,999	-1	-0.0000001
Battery Endpoint	3.23	+ 20	836,499,999	-1	-0.0000001

Table 7-34. LTE Band 26 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

NR Band n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,425	-575	-0.0000687
		- 20	836,499,821	-179	-0.0000214
		- 10	836,499,635	-365	-0.0000436
		0	836,499,697	-303	-0.0000362
		+ 10	836,499,539	-461	-0.0000551
		+ 20 (Ref)	836,499,485	-516	-0.0000616
		+ 30	836,499,316	-684	-0.0000818
		+ 40	836,499,134	-866	-0.0001036
		+ 50	836,499,486	-514	-0.0000615
Battery Endpoint	3.23	+ 20	836,499,979	-21	-0.0000025

Table 7-35. NR Band n5 Frequency Tolerance Data

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Frequency Tolerance / Temperature Variation

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,600,002	2	0.0000002
		- 20	836,600,002	2	0.0000002
		- 10	836,600,002	2	0.0000003
		0	836,600,000	0	0.0000001
		+ 10	836,600,000	0	0.0000001
		+ 20 (Ref)	836,599,999	-1	-0.0000001
		+ 30	836,600,000	0	0.0000000
		+ 40	836,600,000	0	-0.0000001
		+ 50	836,599,999	-1	-0.0000001
Battery Endpoint	3.23	+ 20	836,599,998	-2	-0.0000002

Table 7-36. WCDMA Cell Frequency Tolerance Data

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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: BCGA2568** complies with all the requirements of Part 22 of the FCC rules.

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