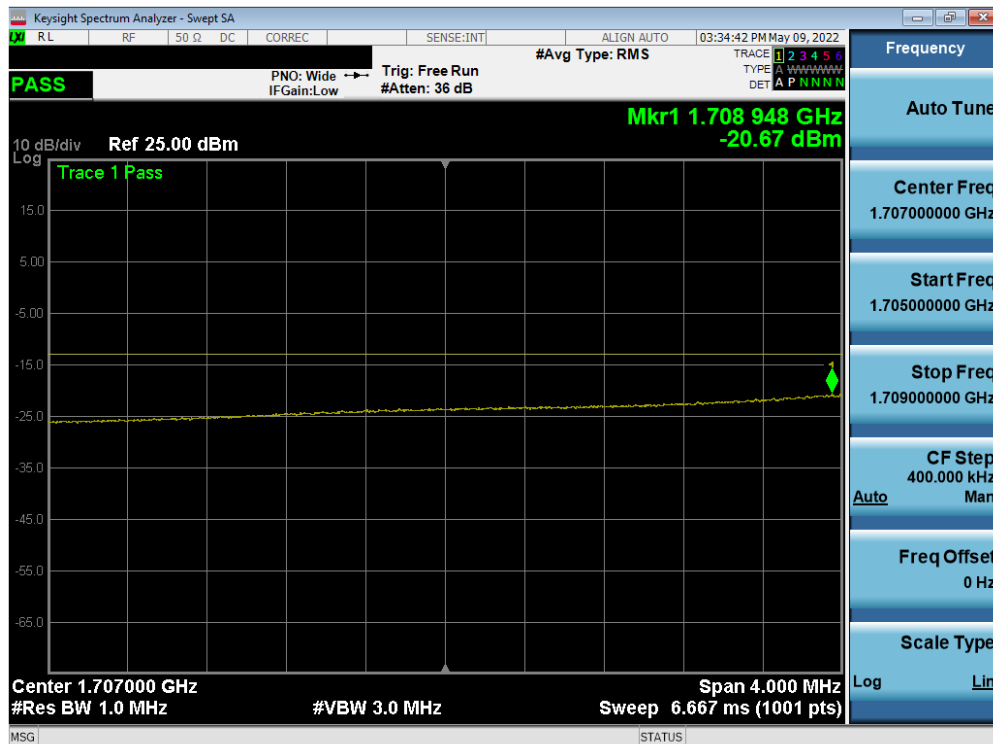


Plot 7-96. Lower Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)



Plot 7-97. Lower Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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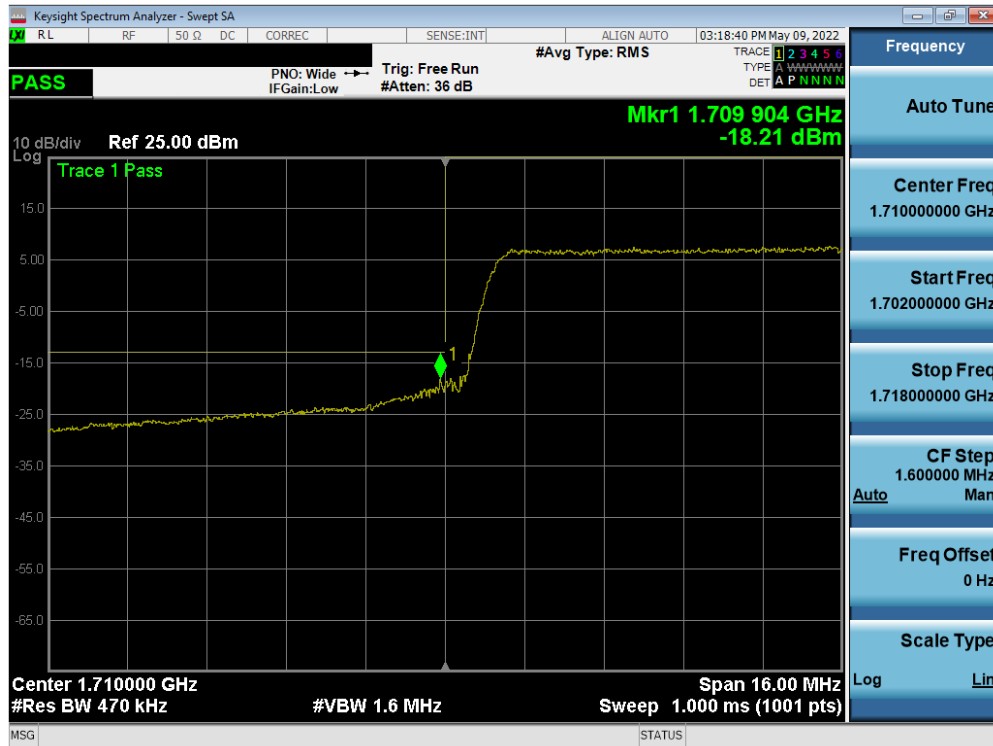


Plot 7-98. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

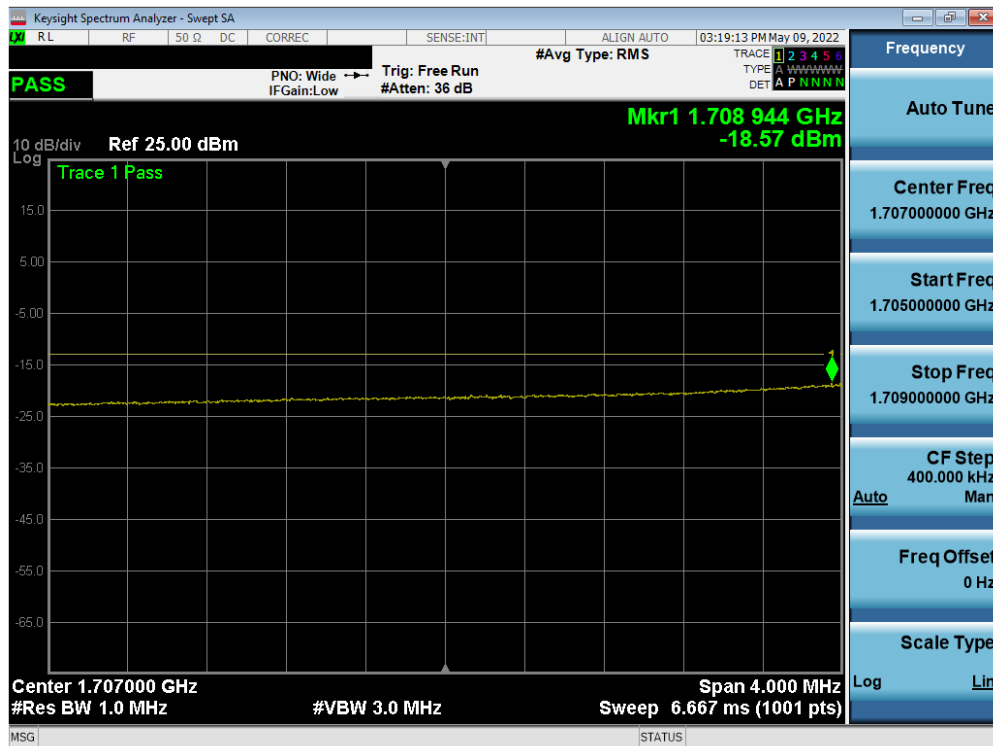


Plot 7-99. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 70 of 122



Plot 7-100. Lower Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)



Plot 7-101. Lower Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: BCG-A2622	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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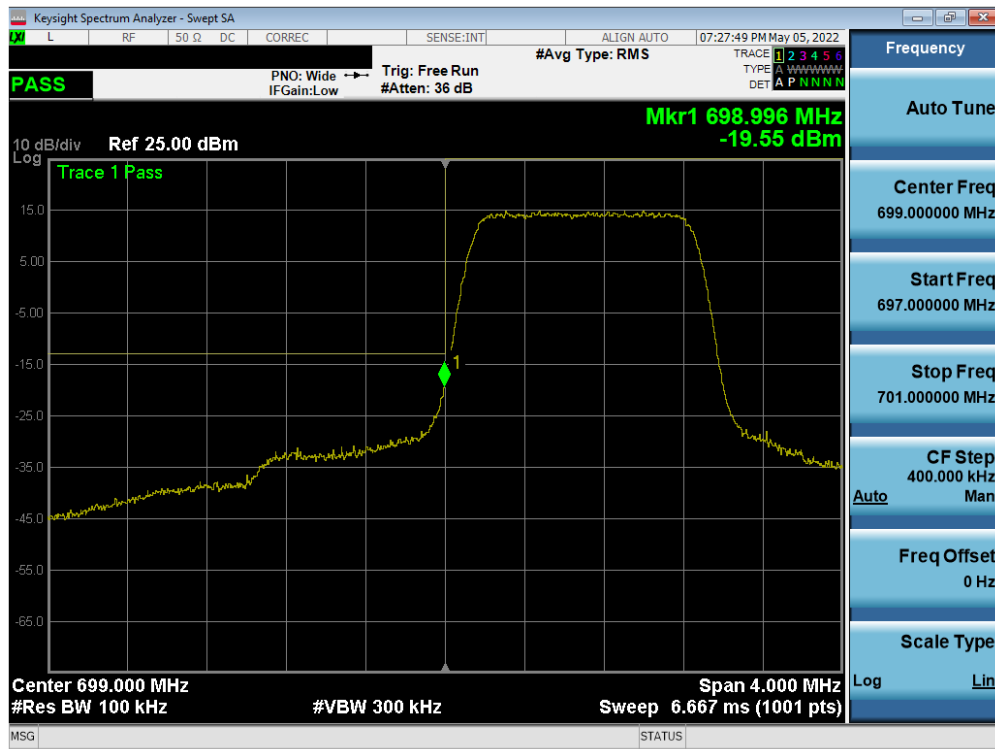
Plot 7-102. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)



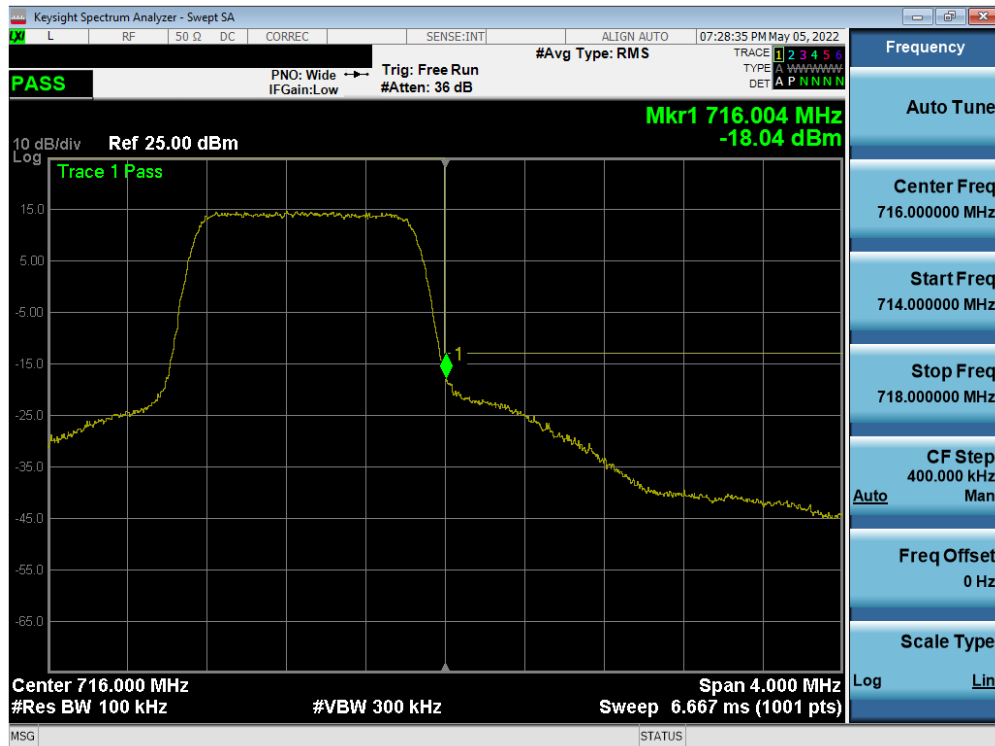
Plot 7-103. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 72 of 122


LTE Band 12



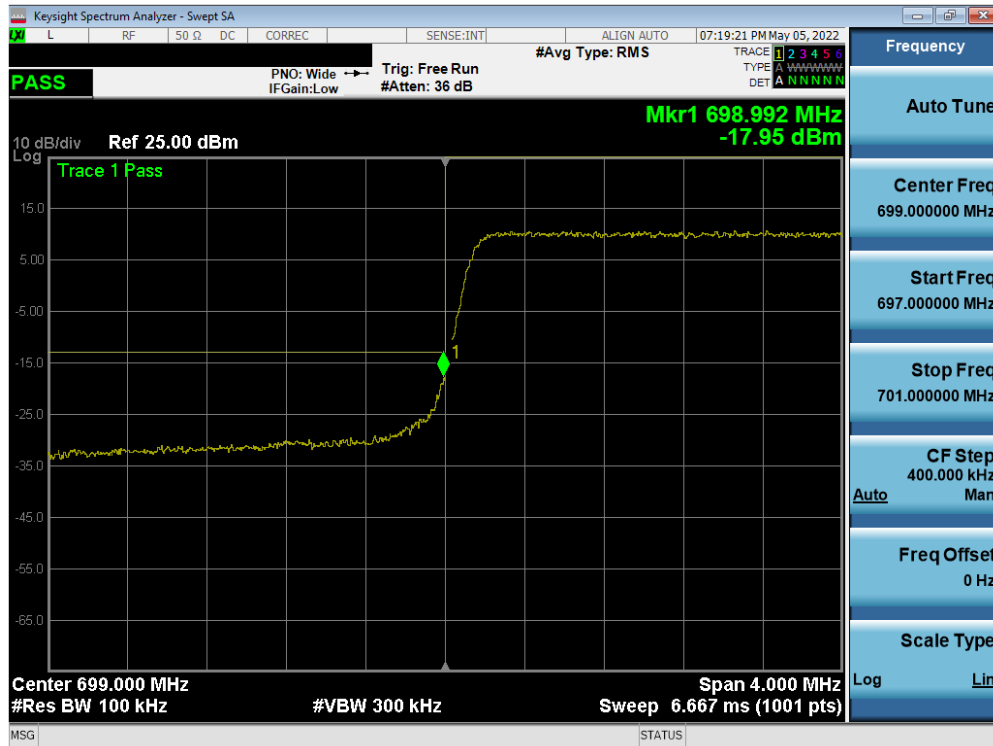
Plot 7-104. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)



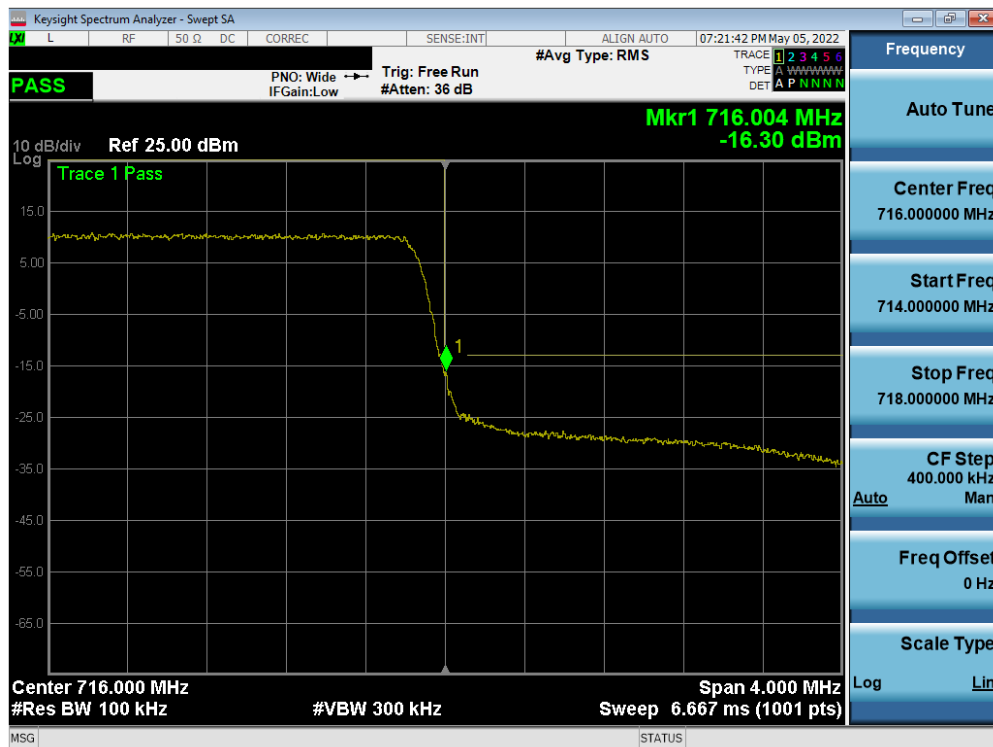
Plot 7-105. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-106. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB)

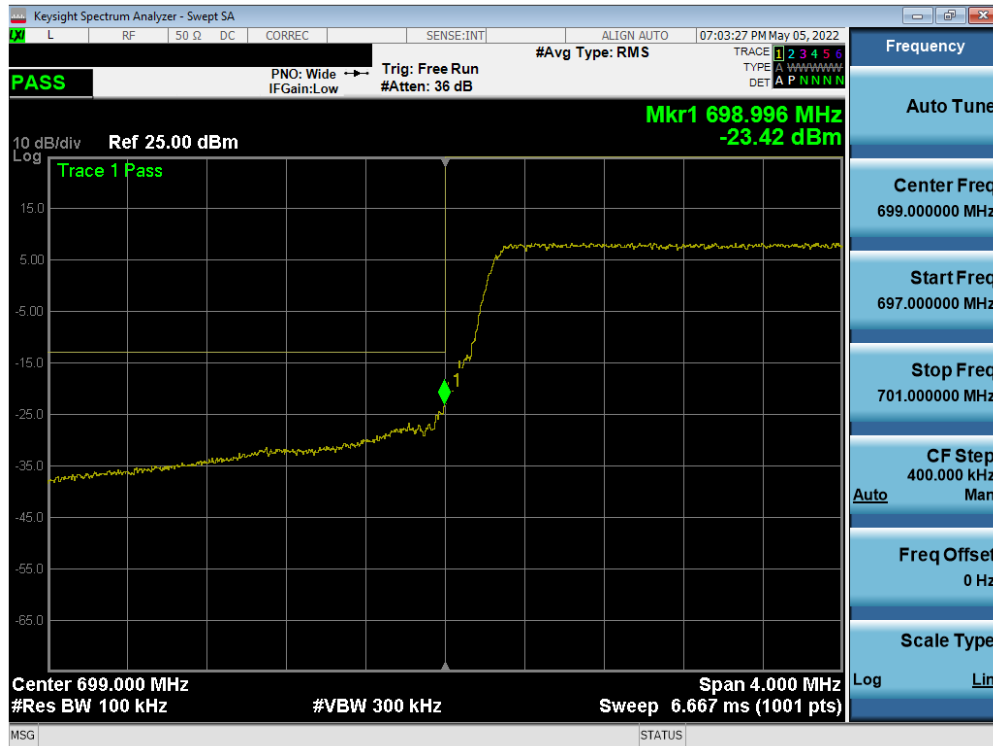


Plot 7-107. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 74 of 122

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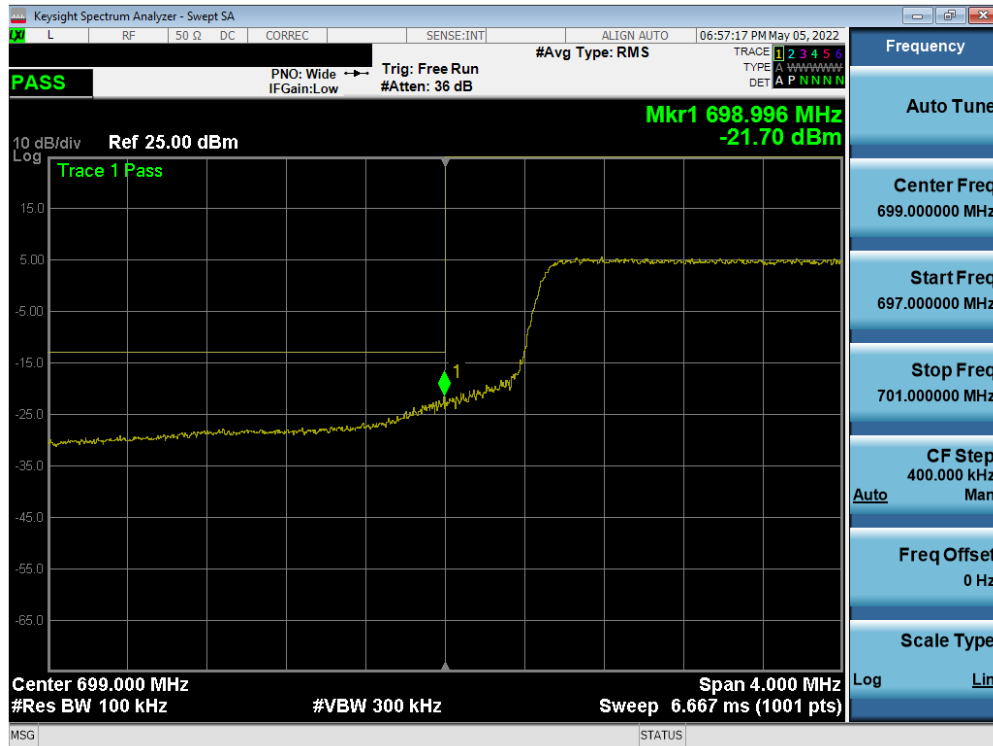
Plot 7-108. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB)



Plot 7-109. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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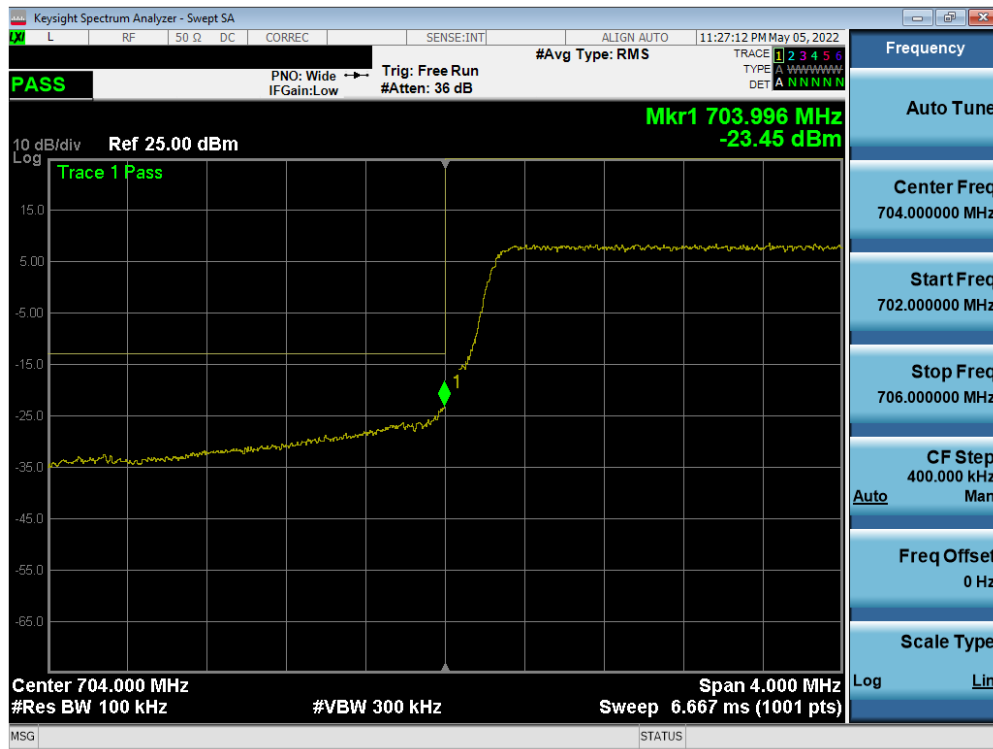
Plot 7-110. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB)



Plot 7-111. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 17



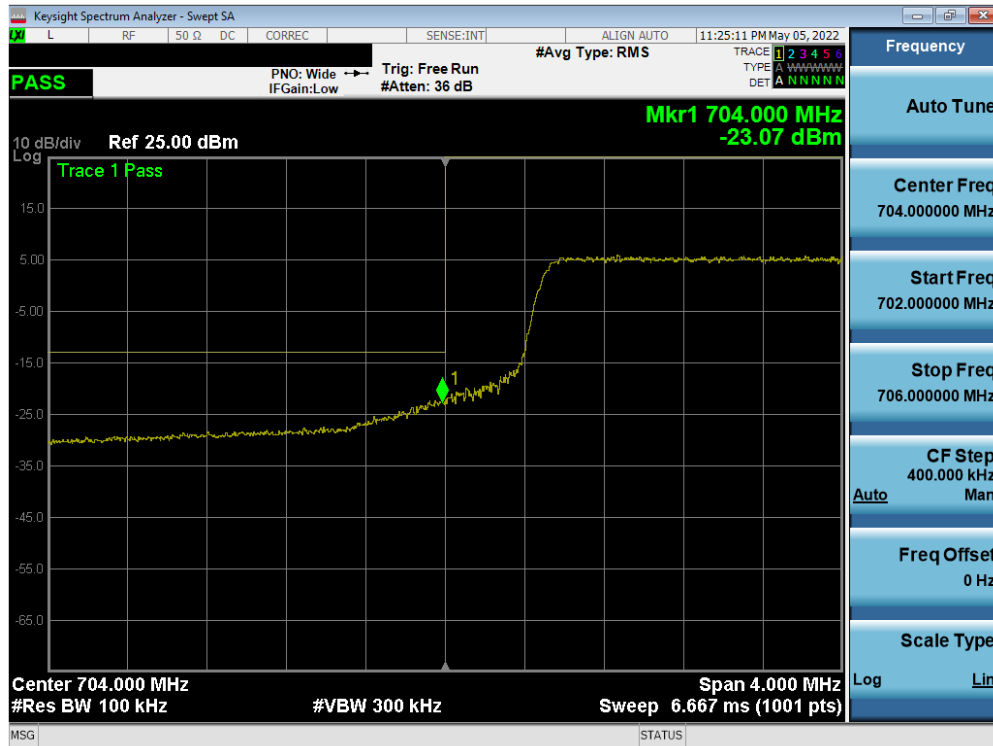
Plot 7-112. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB)



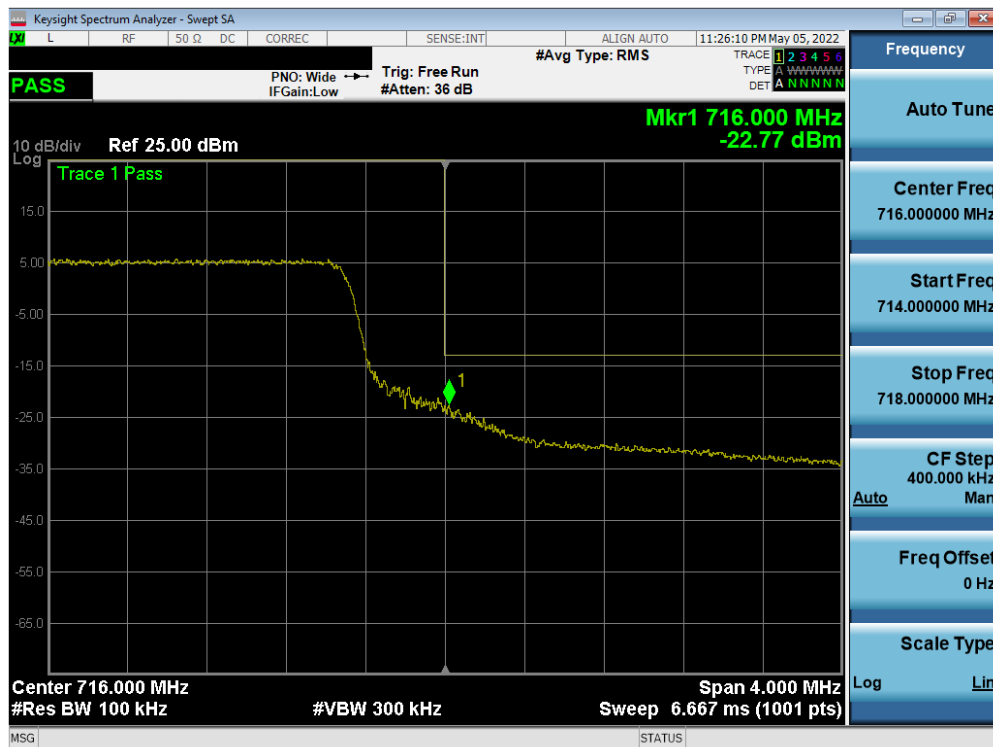
Plot 7-113. Upper Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB)

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-114. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB)

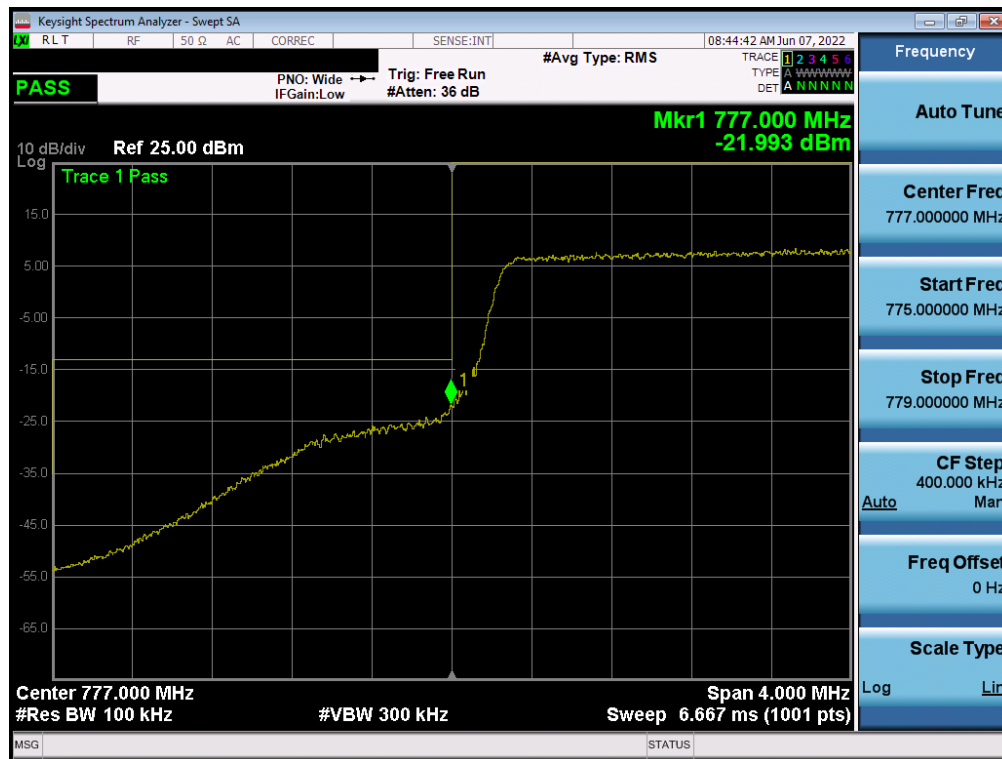


Plot 7-115. Upper Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB)

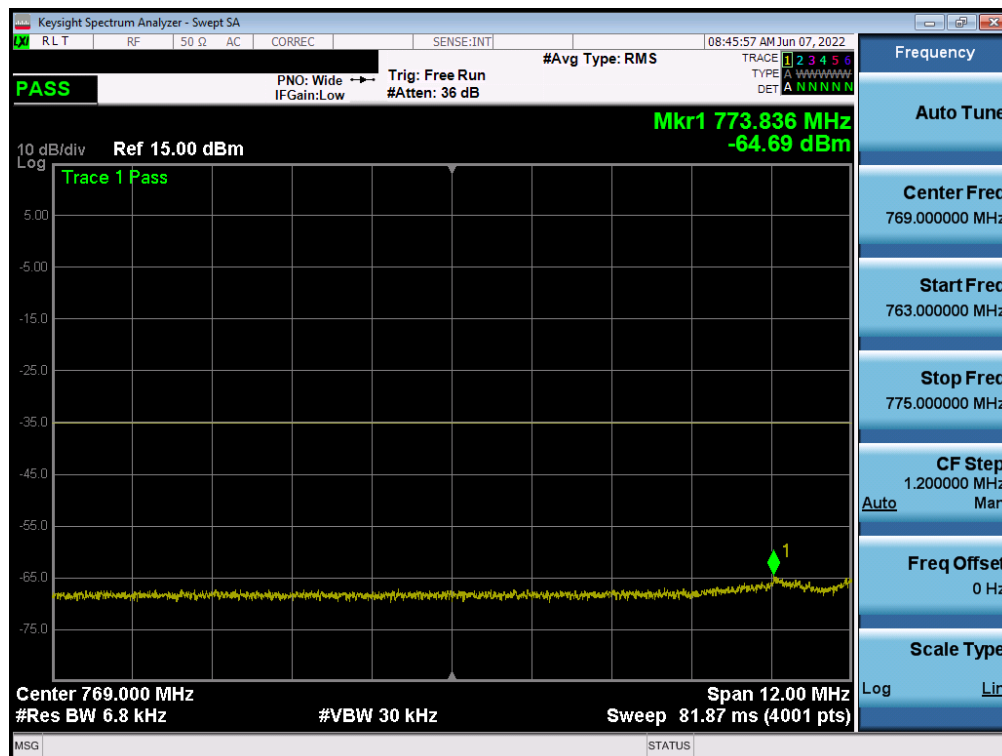
FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 13



Plot 7-116. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB)



Plot 7-117. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB)

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-118. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB)

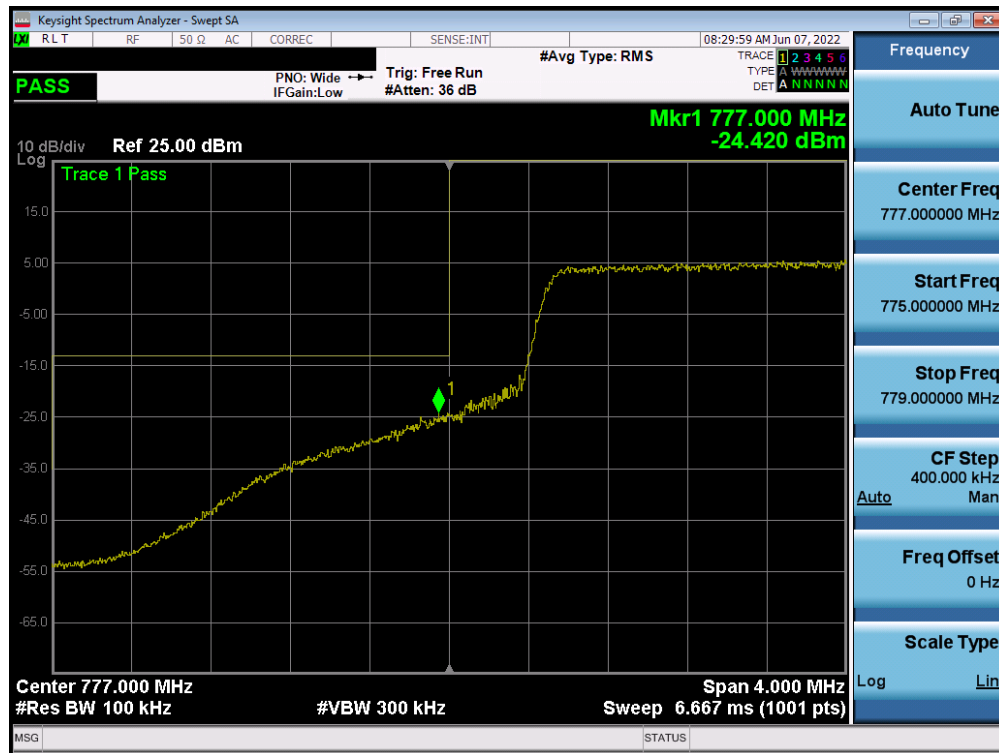


Plot 7-119. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB)

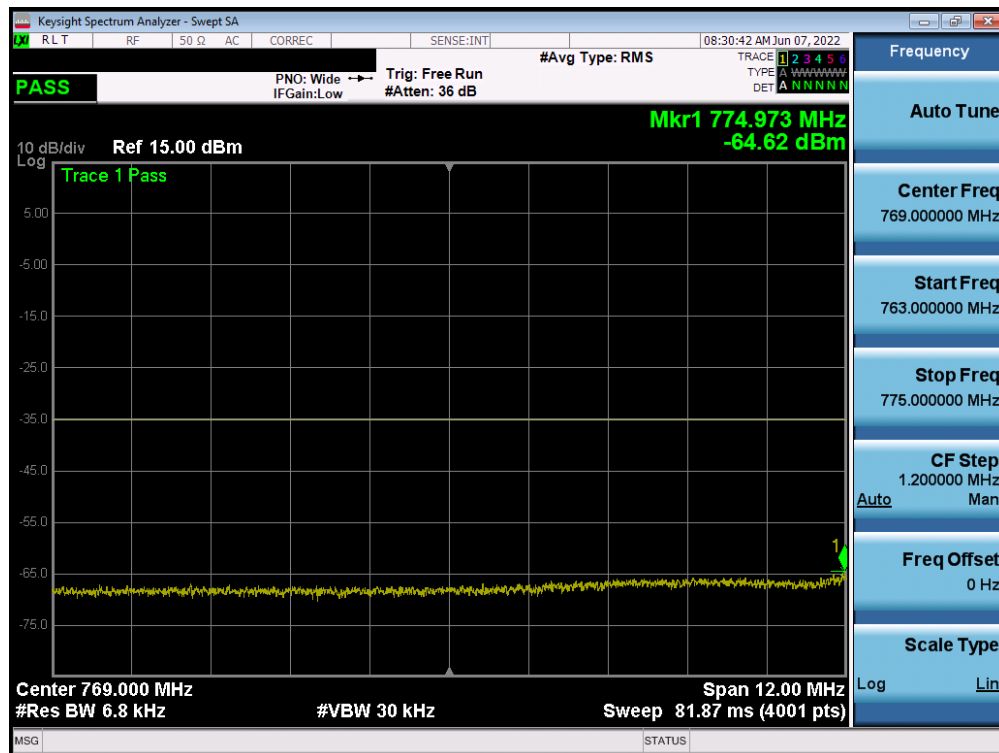
FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 80 of 122

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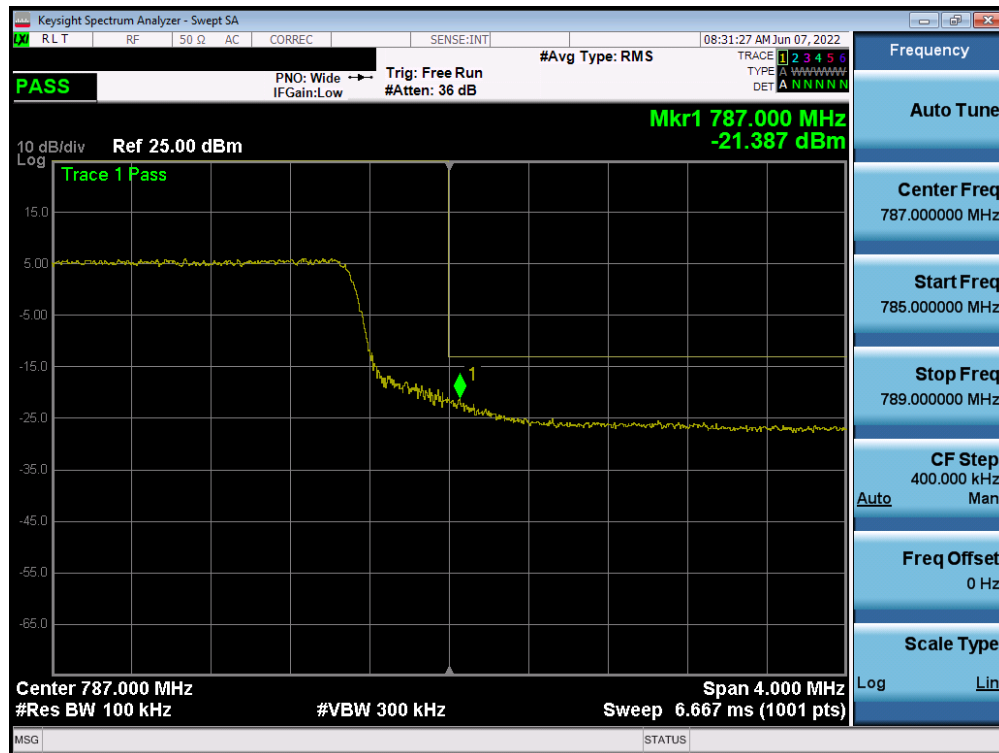
Plot 7-120. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB)



Plot 7-121. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 81 of 122

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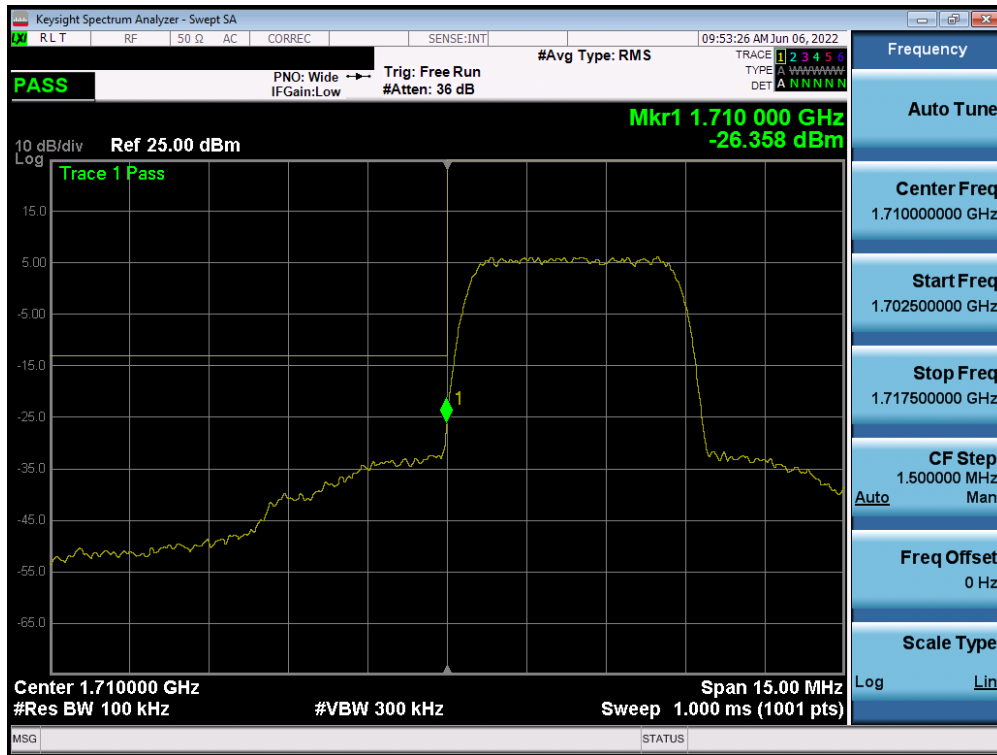


Plot 7-122. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB)

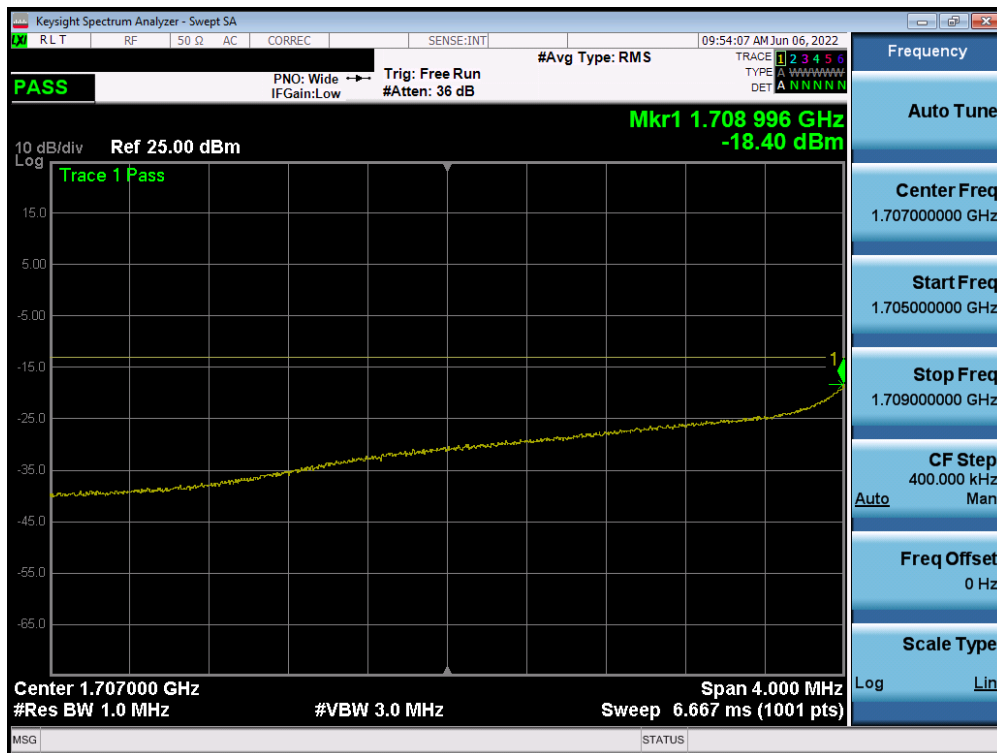


Plot 7-123. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB)


FCC ID: BCG-A2622	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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Plot 7-124. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)



Plot 7-125. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)


FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-126. Upper Band Edge Plot (WCDMA AWS - Ch. 1513)



Plot 7-127. Upper Extended Band Edge Plot (WCDMA AWS - Ch. 1513)

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7.5 Peak-Average Ratio

§27.50(d)(5)

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

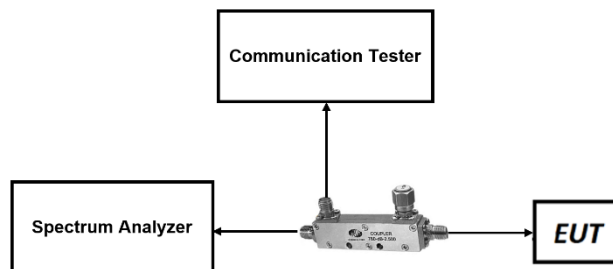



Figure 7-4. Test Instrument & Measurement Setup

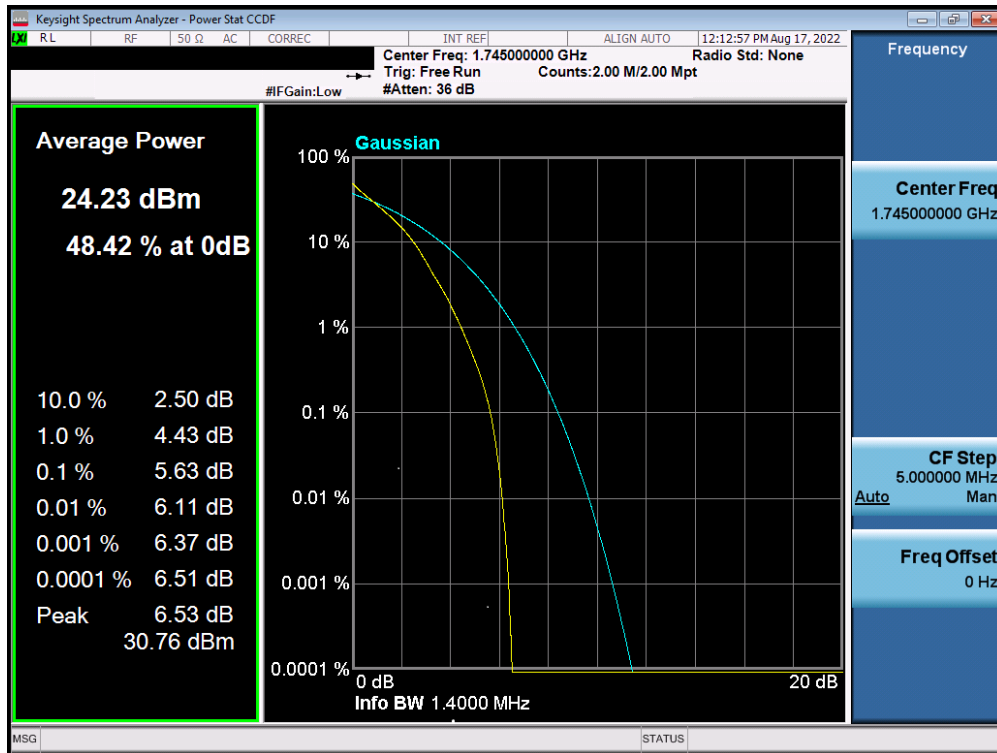
Test Notes

None.

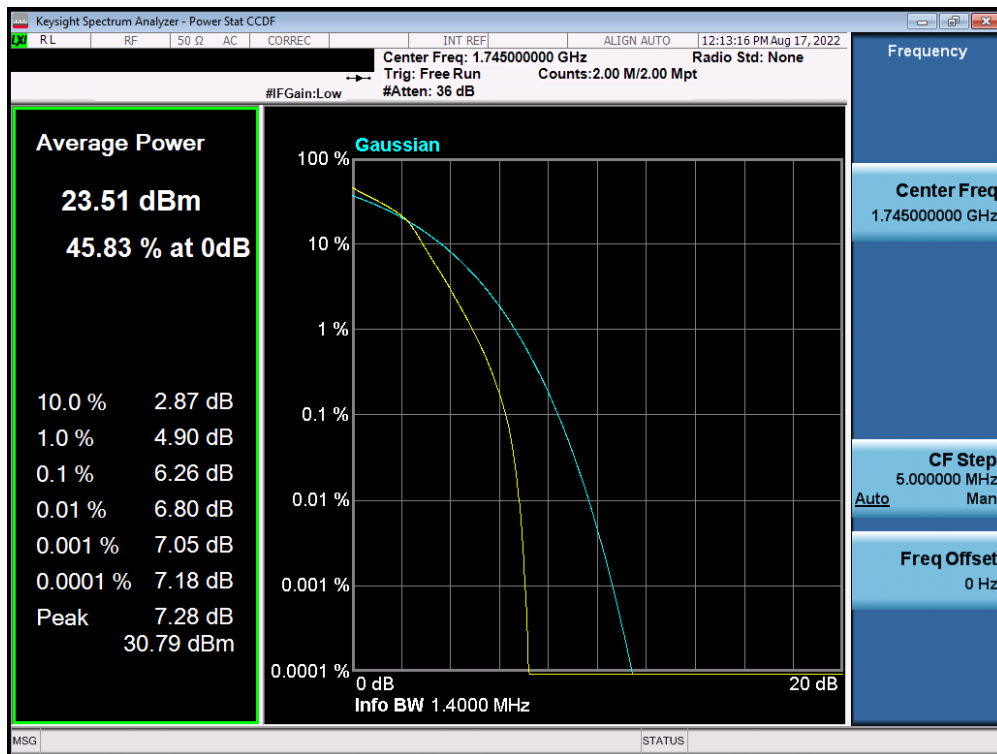
FCC ID: BCG-A2622		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 66



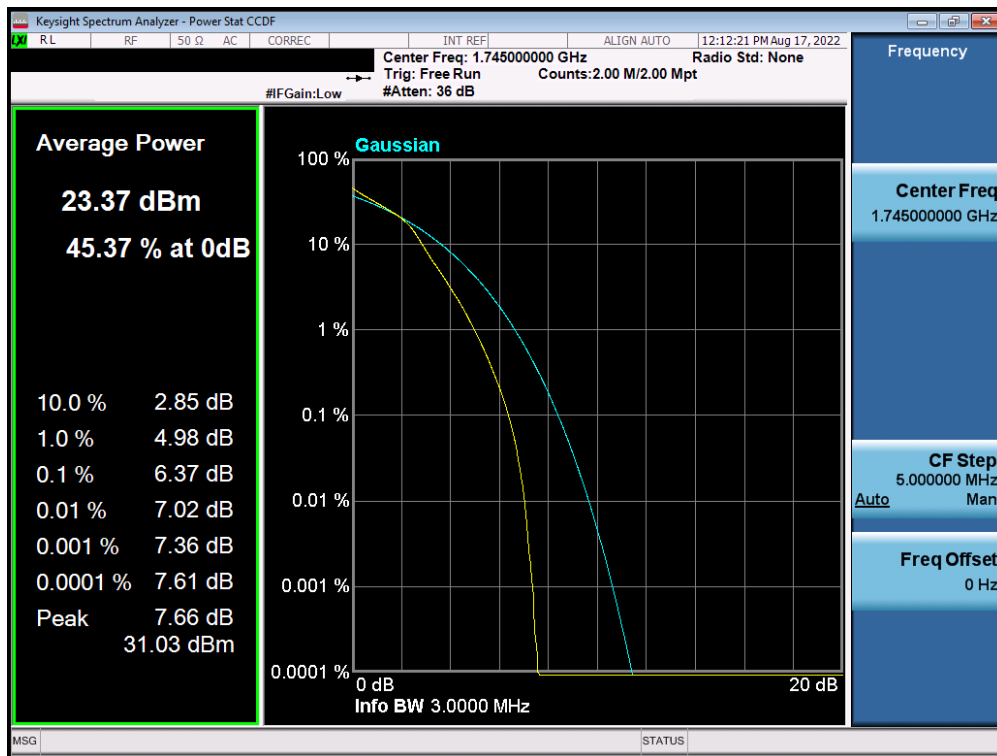
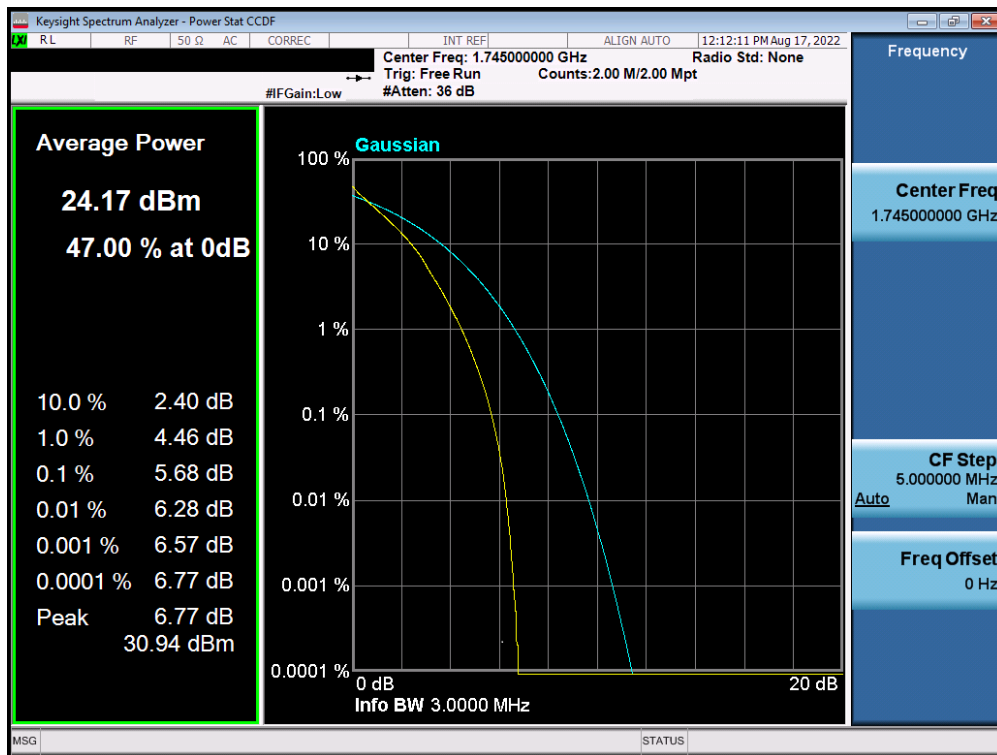
Plot 7-128. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)



Plot 7-129. PAR Plot (LTE Band 66 - 1.4MHz 16-QAM - Full RB)

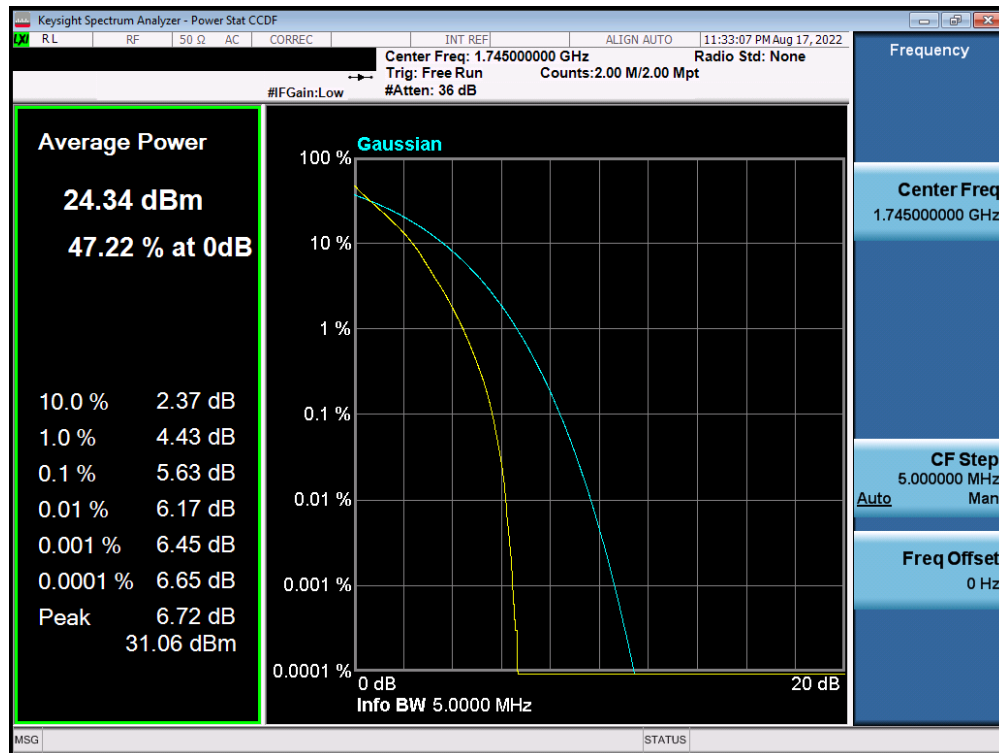
FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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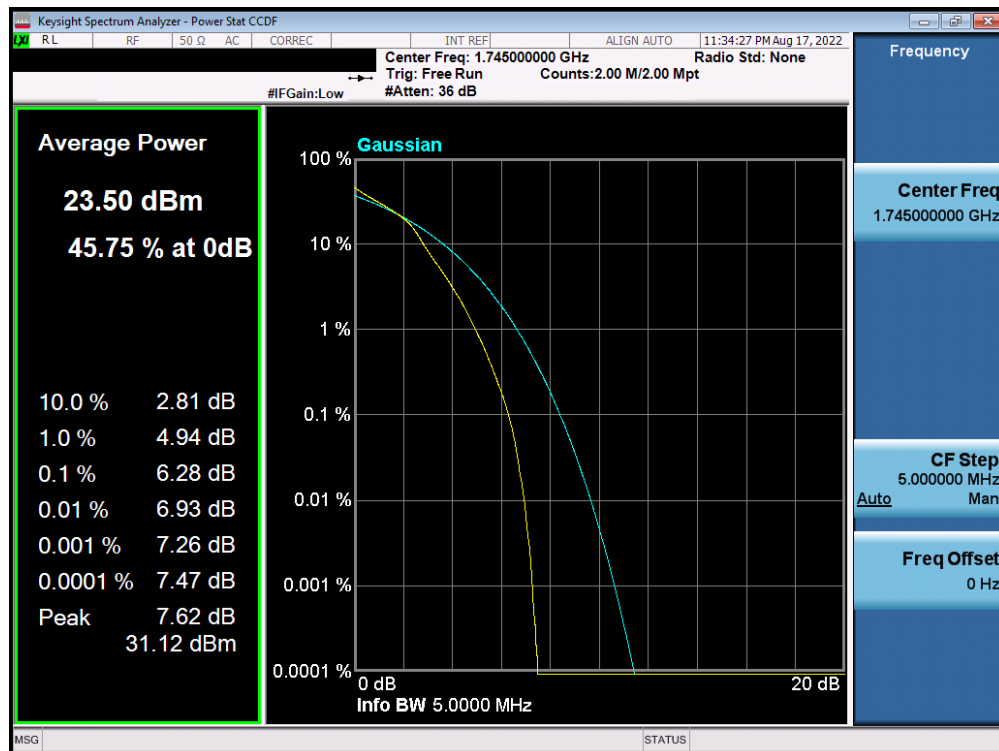


FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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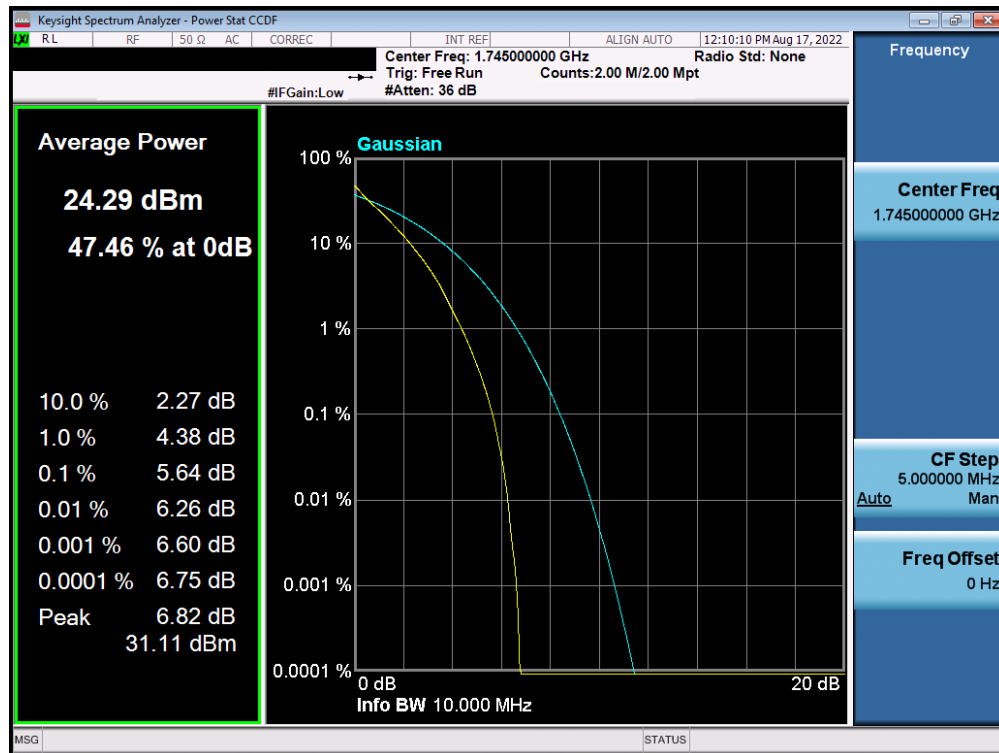
Plot 7-132. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB)



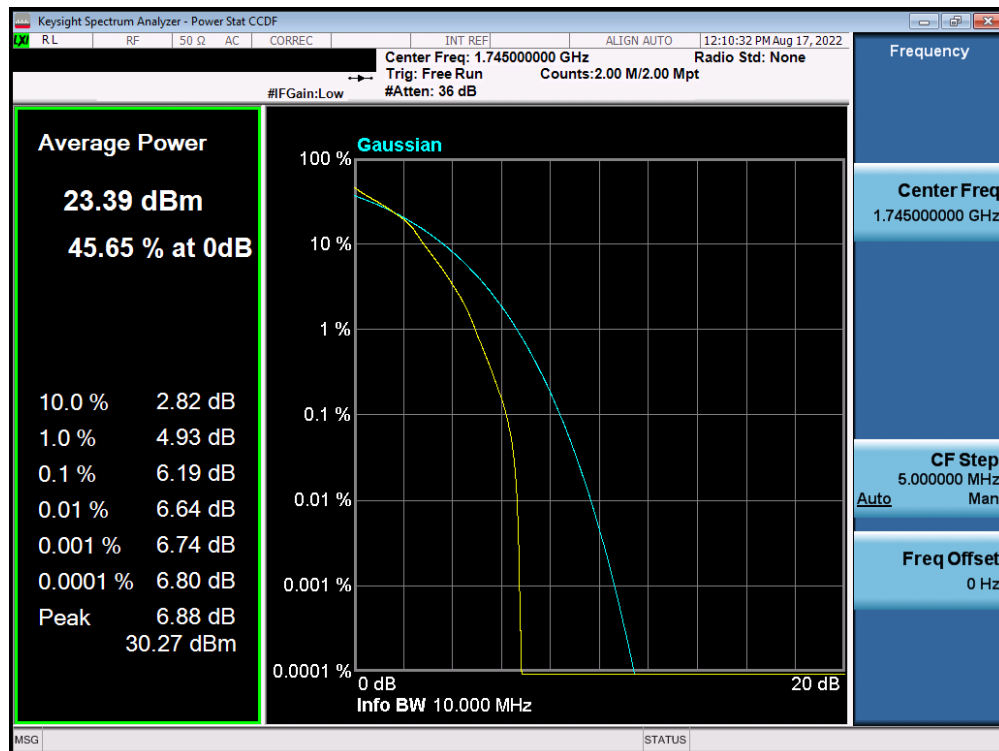
Plot 7-133. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 88 of 122

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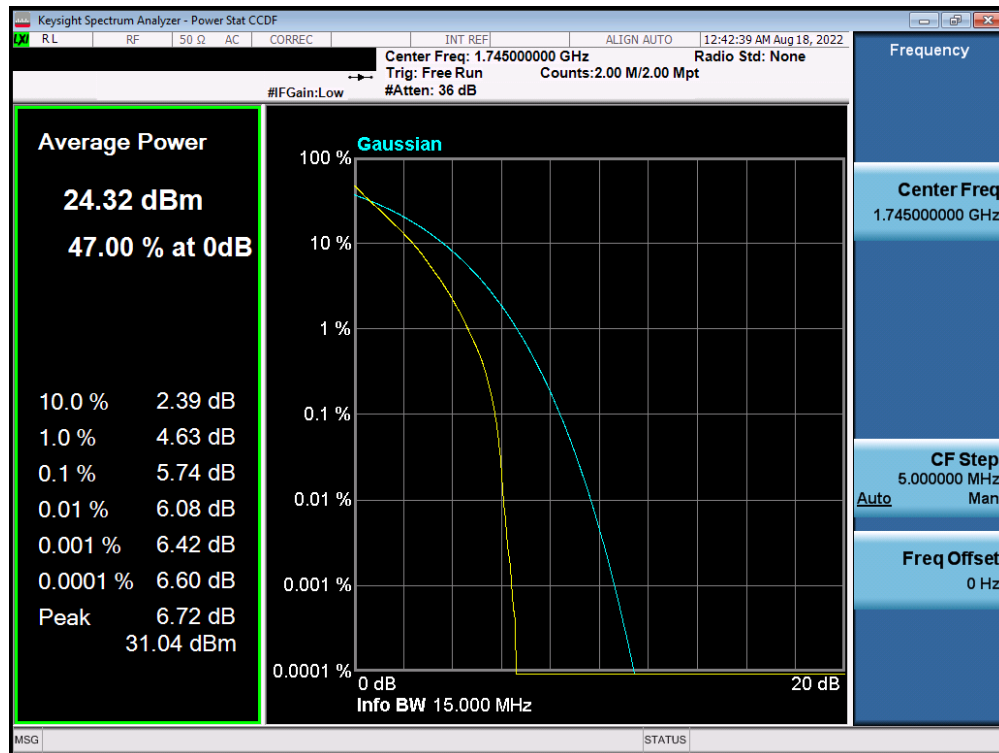
Plot 7-134. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB)



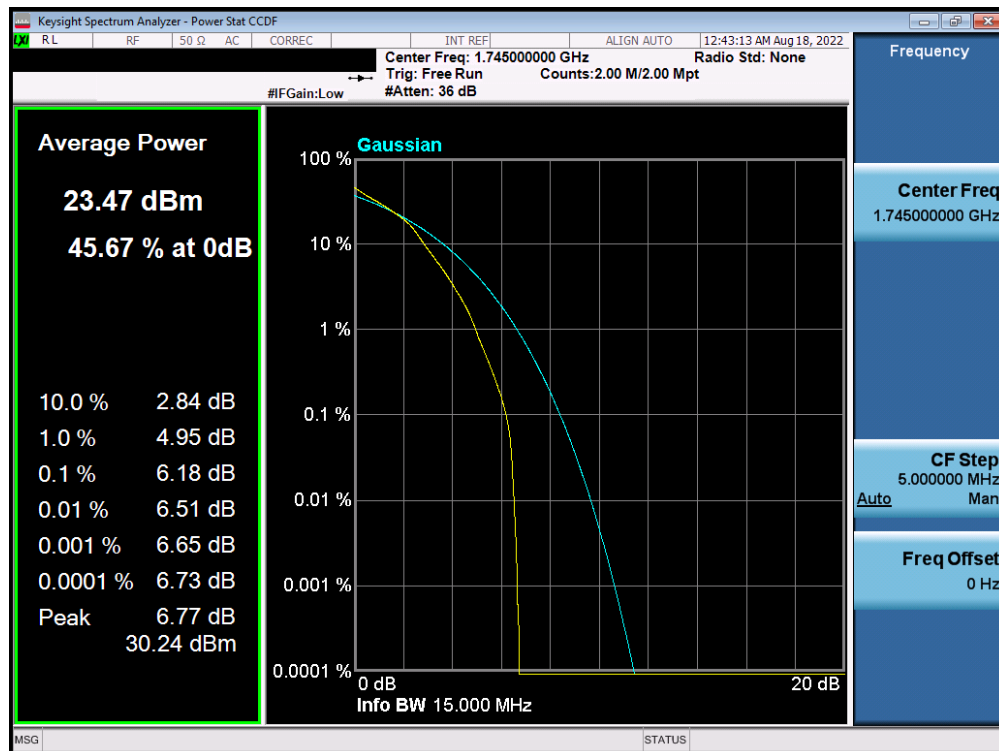
Plot 7-135. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 89 of 122

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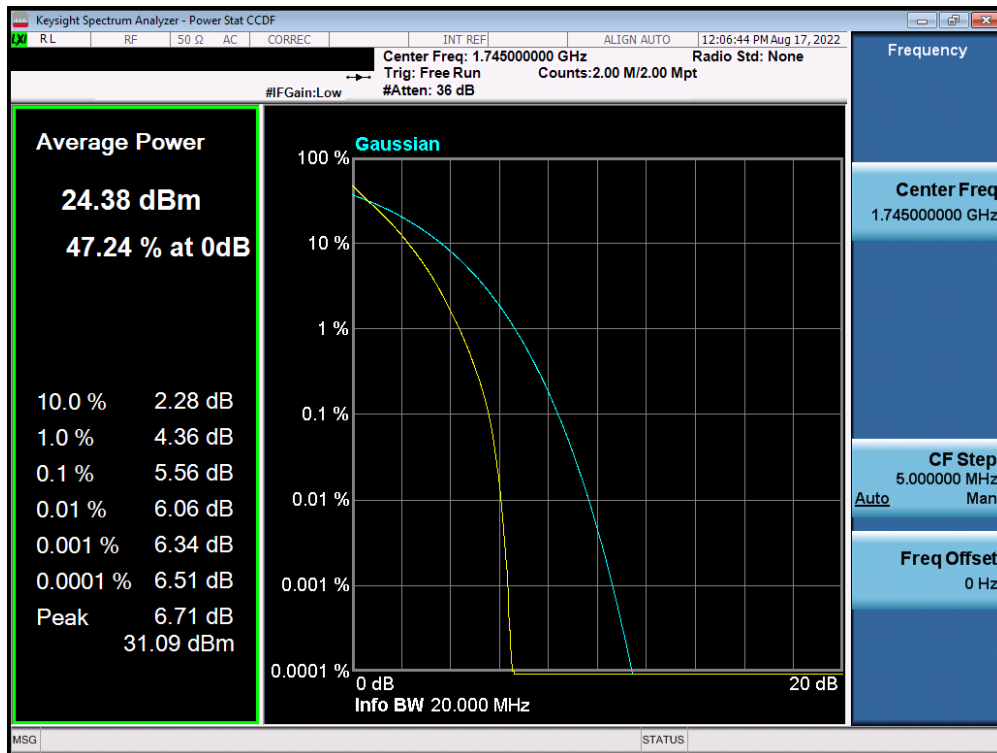
Plot 7-136. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB)



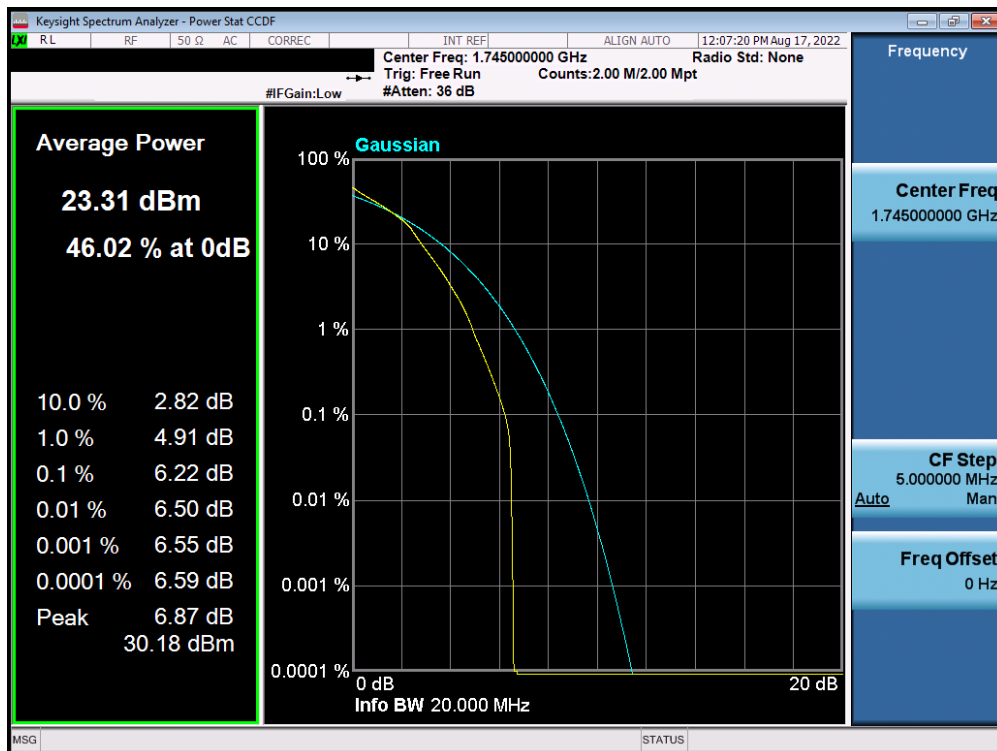
Plot 7-137. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-138. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB)

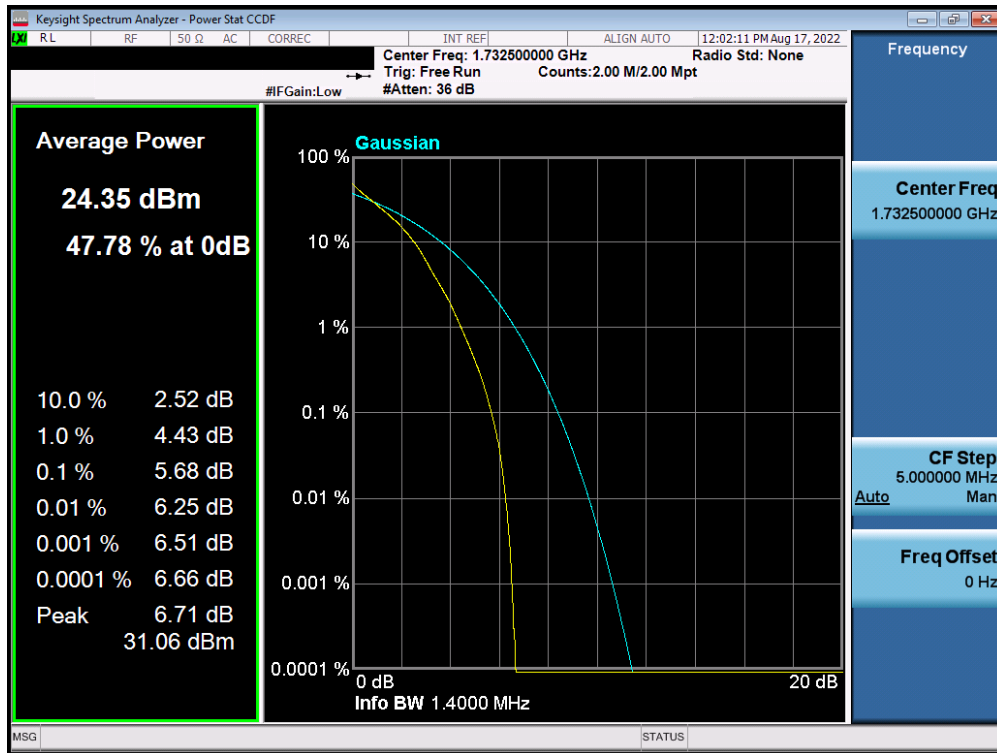


Plot 7-139. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB)

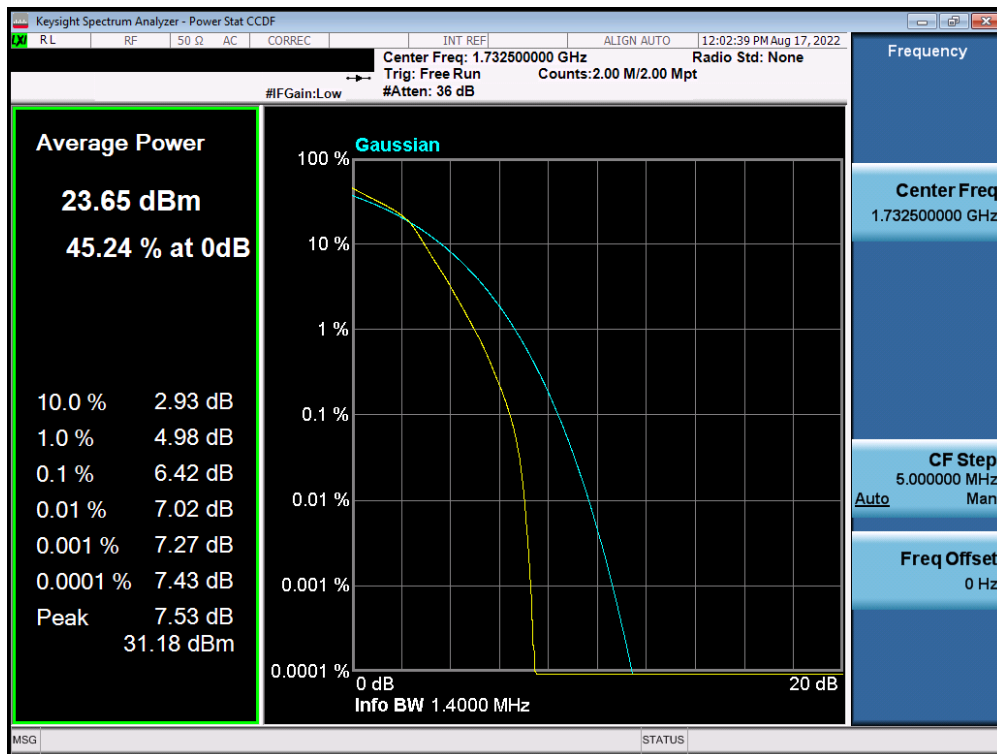
FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 91 of 122

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LTE Band 4



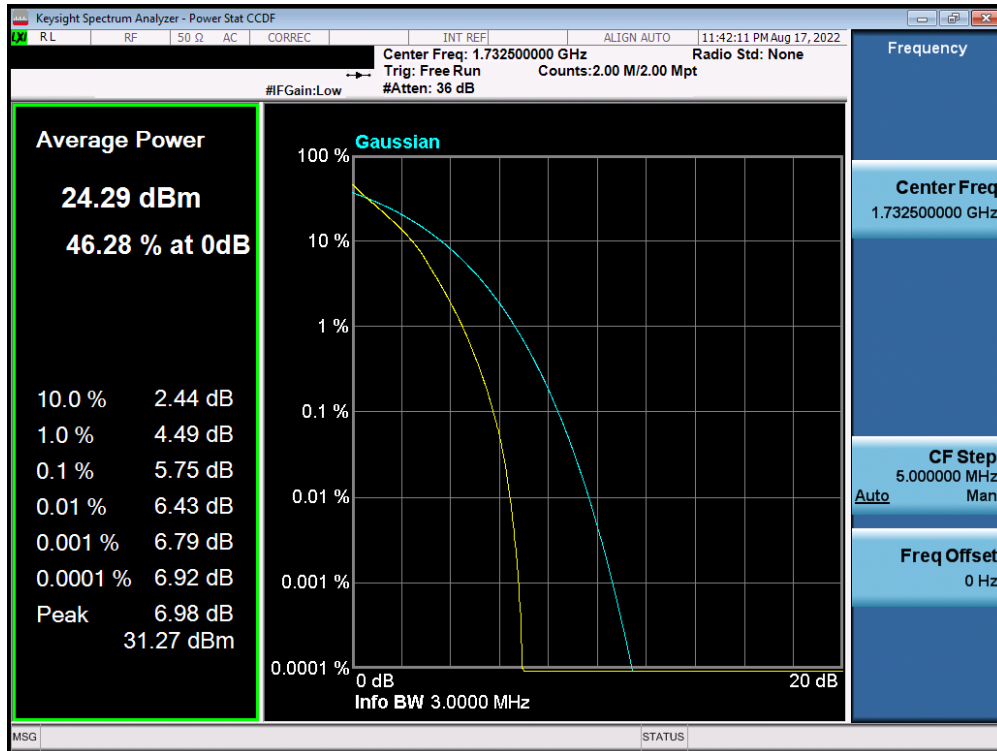
Plot 7-140. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



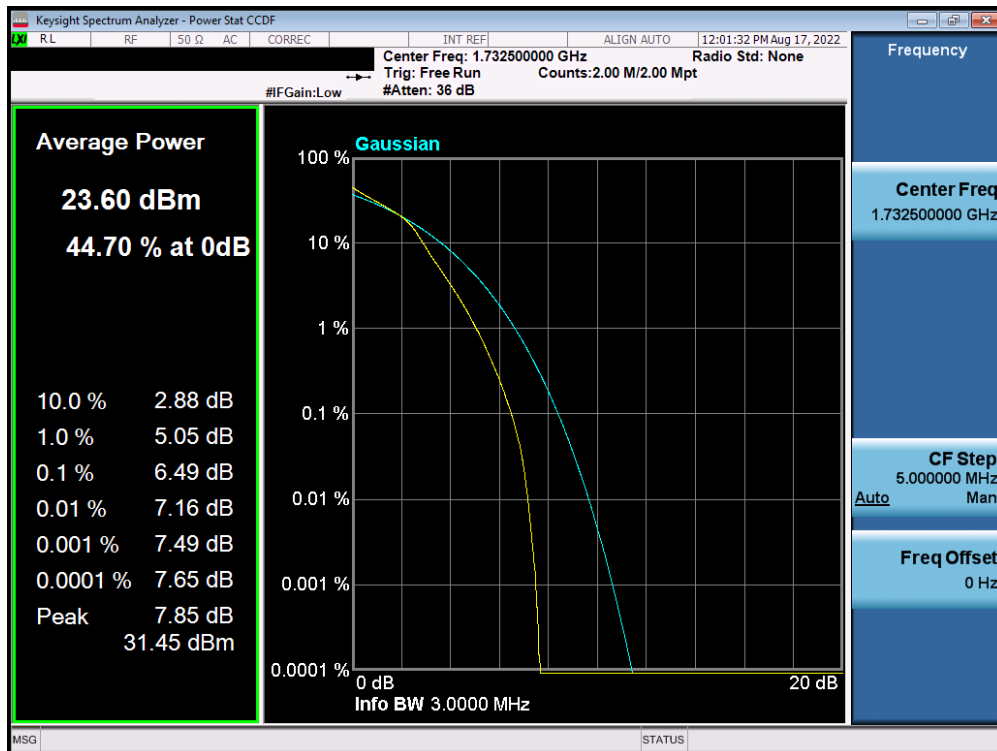
Plot 7-141. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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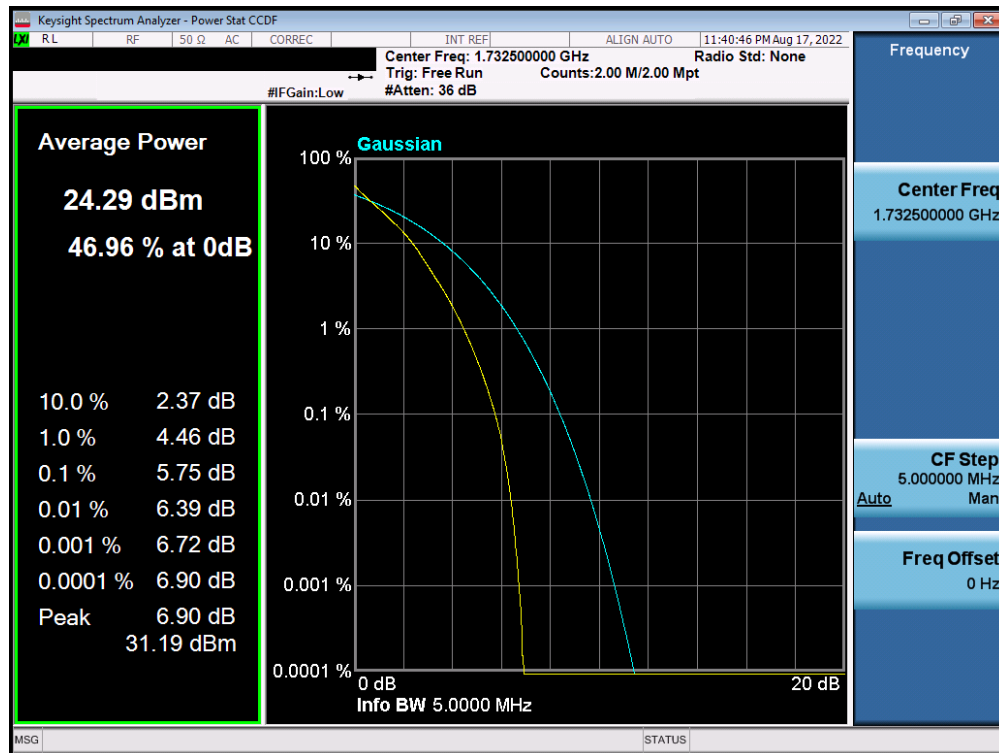
Plot 7-142. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)



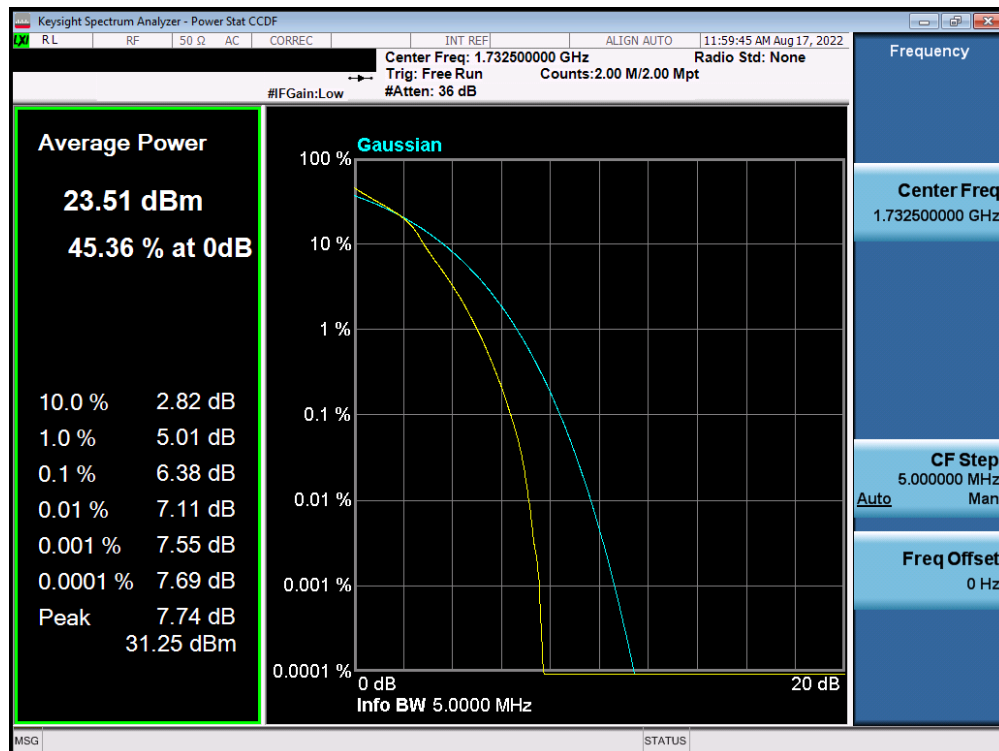
Plot 7-143. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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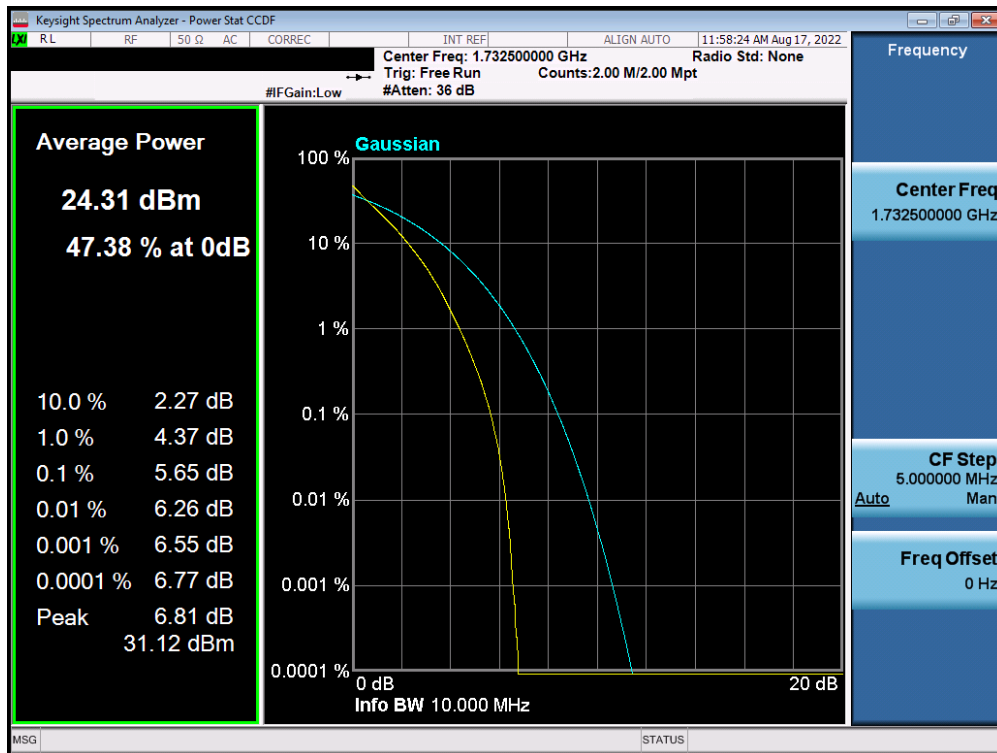
Plot 7-144. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)



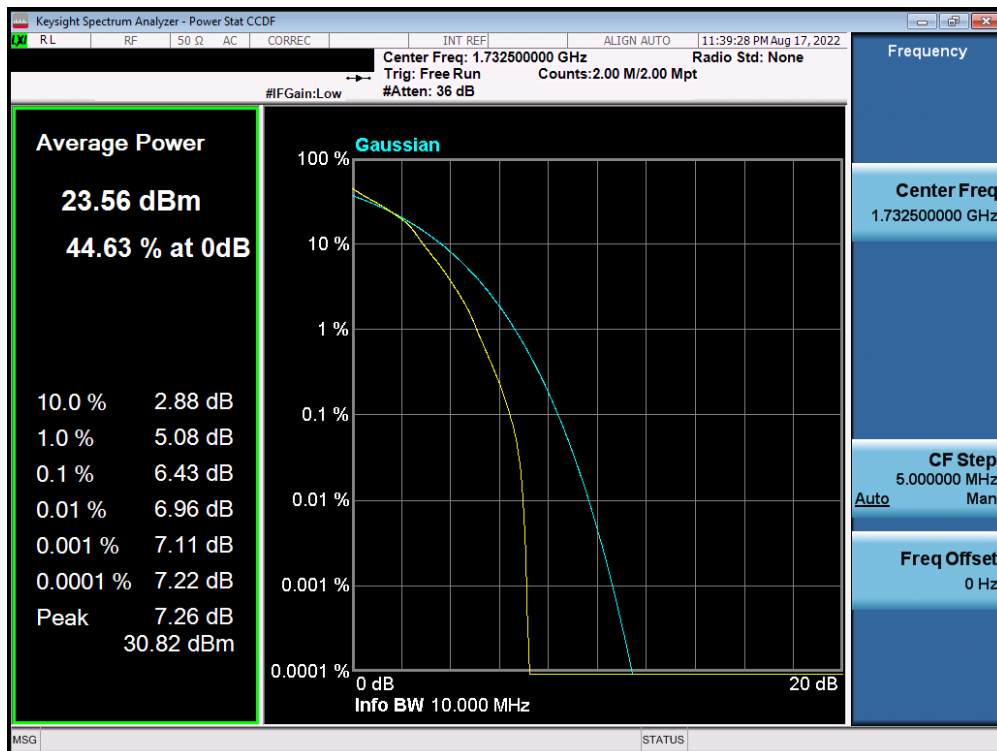
Plot 7-145. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
Test Report S/N: 1C2205090042-03.BCG	Test Dates: 5/1/2022 - 8/18/2022	EUT Type: Watch	Page 94 of 122

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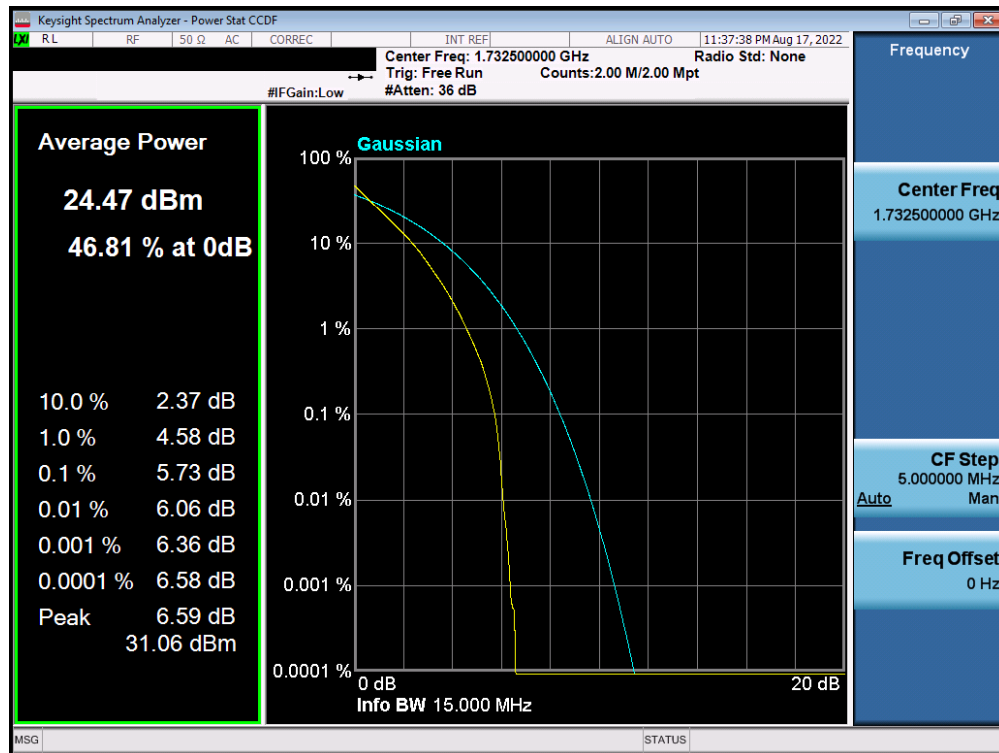
Plot 7-146. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)



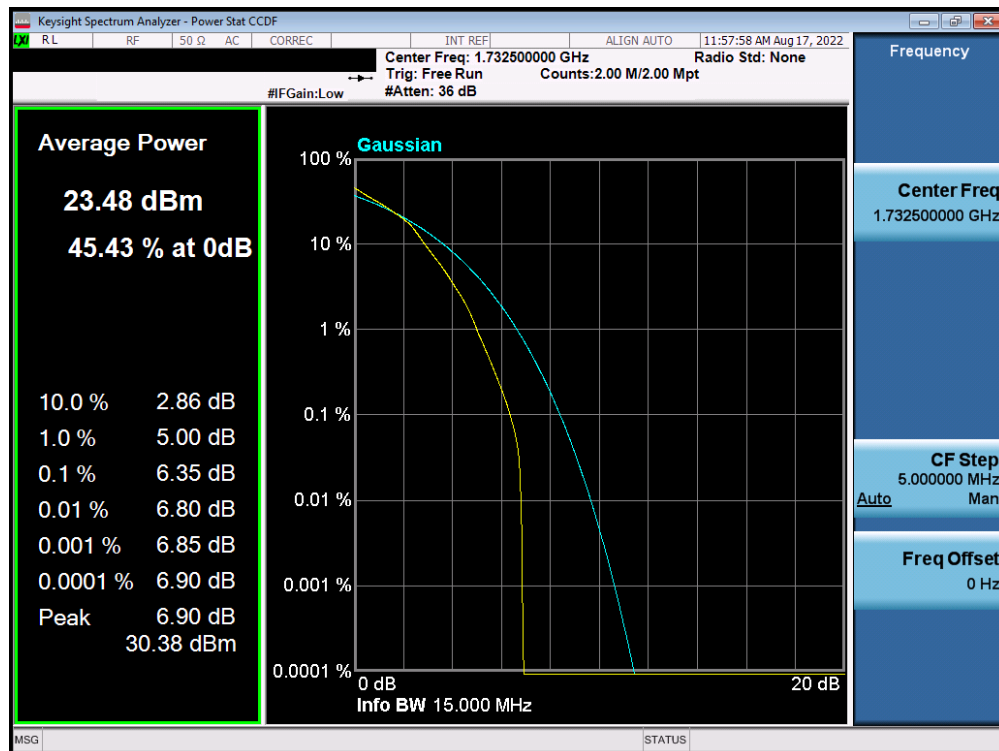
Plot 7-147. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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Plot 7-148. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)

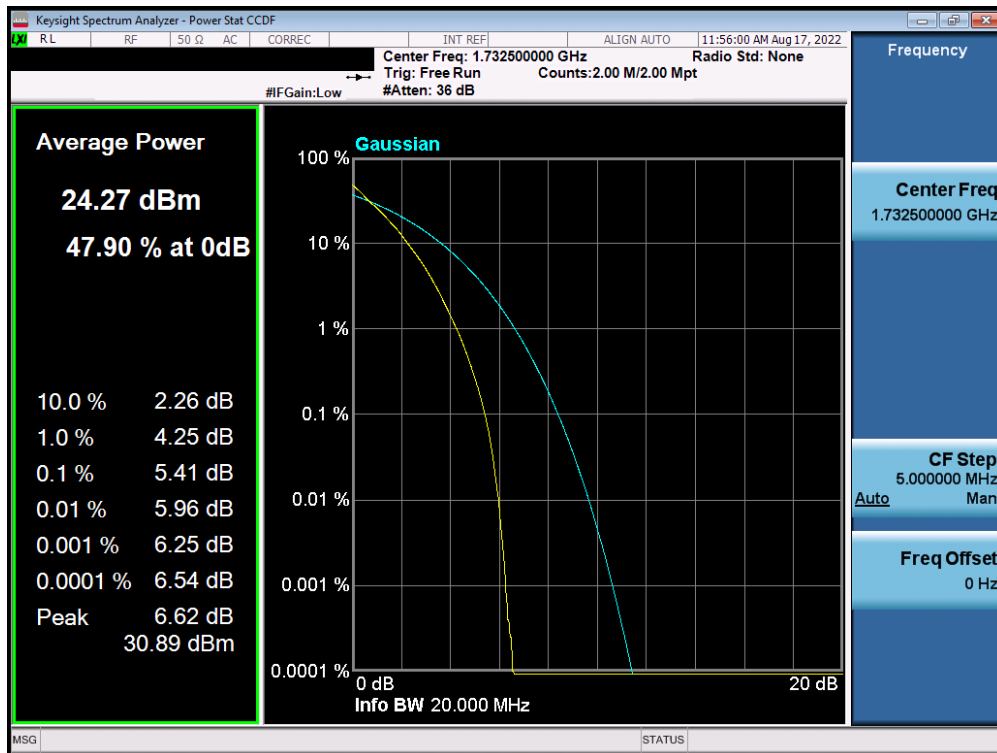


Plot 7-149. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

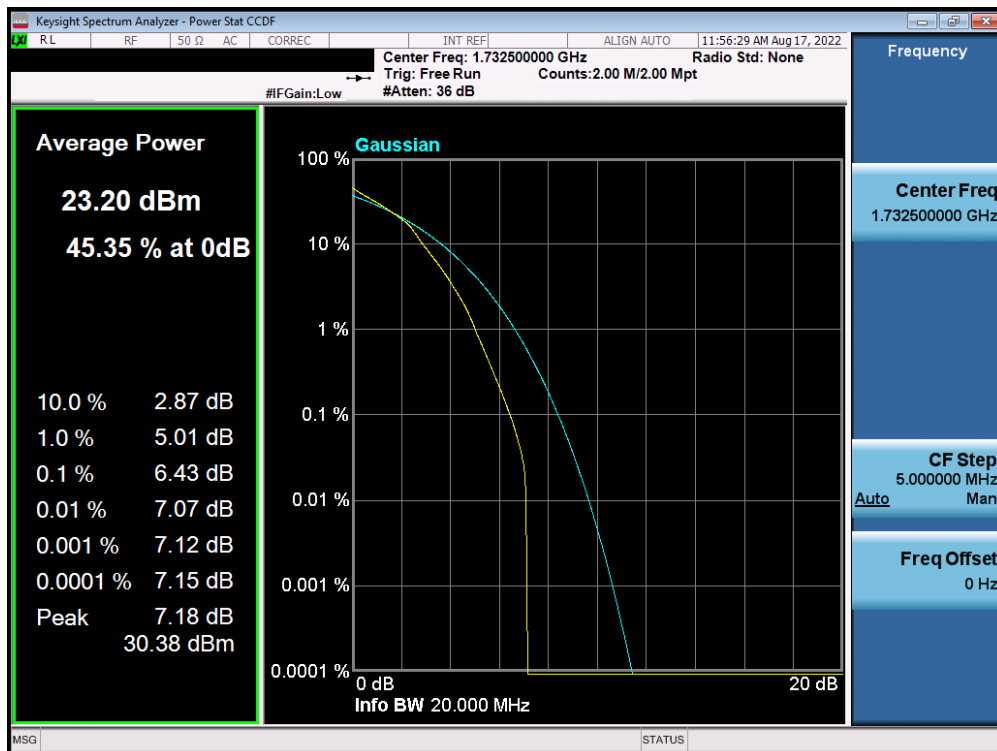
FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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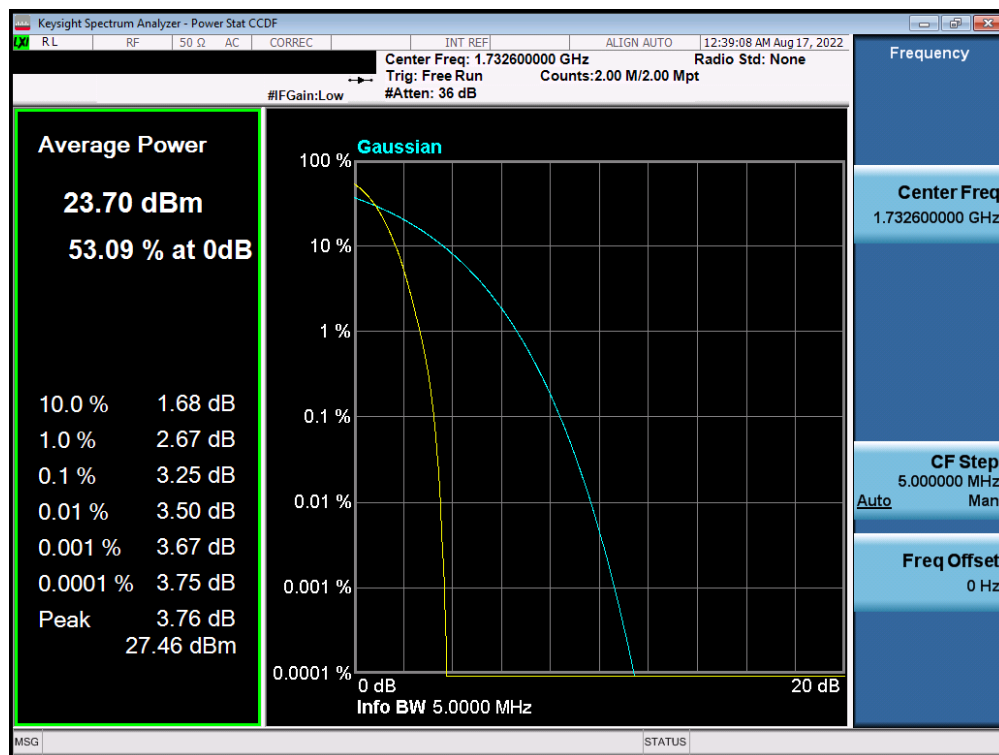
Plot 7-150. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)




Plot 7-151. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A2622	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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Plot 7-152. PAR Plot (WCDMA, Ch. 1413)

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7.6 Radiated Power (ERP/EIRP)

§27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

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.

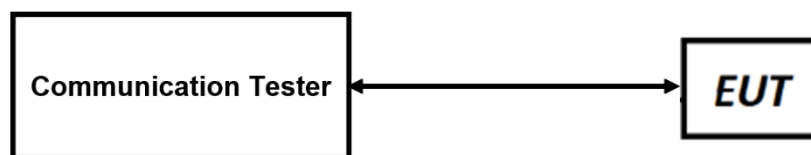




Figure 7-5. ERP/EIRP Measurement Setup

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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. 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."
5. The Ant. Gains (GT) are listed in dBi.

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7.6.1 Antenna FCM EIRP

Antenna FCM LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-11.50	1 / 3	24.50	13.00	19.953	30.00	-17.00
		1745.0	-11.50	1 / 5	24.29	12.79	19.011	30.00	-17.21
		1779.3	-11.50	1 / 3	24.46	12.96	19.770	30.00	-17.04
	16-QAM	1710.7	-11.50	1 / 3	23.95	12.45	17.579	30.00	-17.55
3 MHz	QPSK	1711.5	-11.50	1 / 0	24.50	13.00	19.953	30.00	-17.00
		1745.0	-11.50	1 / 7	24.36	12.86	19.320	30.00	-17.14
		1778.5	-11.50	1 / 0	24.37	12.87	19.364	30.00	-17.13
	16-QAM	1778.5	-11.50	1 / 7	23.92	12.42	17.458	30.00	-17.58
5 MHz	QPSK	1712.5	-11.50	1 / 12	24.50	13.00	19.953	30.00	-17.00
		1745.0	-11.50	1 / 12	24.28	12.78	18.967	30.00	-17.22
		1777.5	-11.50	1 / 24	24.23	12.73	18.750	30.00	-17.27
	16-QAM	1712.5	-11.50	1 / 24	23.77	12.27	16.866	30.00	-17.73
10 MHz	QPSK	1715.0	-11.50	1 / 49	24.50	13.00	19.953	30.00	-17.00
		1745.0	-11.50	1 / 25	24.36	12.86	19.320	30.00	-17.14
		1775.0	-11.50	1 / 0	24.48	12.98	19.861	30.00	-17.02
	16-QAM	1715.0	-11.50	1 / 25	23.91	12.41	17.418	30.00	-17.59
15 MHz	QPSK	1717.5	-11.50	1 / 0	24.50	13.00	19.953	30.00	-17.00
		1745.0	-11.50	1 / 0	24.15	12.65	18.408	30.00	-17.35
		1772.5	-11.50	1 / 0	24.26	12.76	18.880	30.00	-17.24
	16-QAM	1745.0	-11.50	1 / 37	23.66	12.16	16.444	30.00	-17.84
20 MHz	QPSK	1720.0	-11.50	1 / 50	24.39	12.89	19.454	30.00	-17.11
		1745.0	-11.50	1 / 50	24.50	13.00	19.953	30.00	-17.00
		1770.0	-11.50	1 / 0	24.50	13.00	19.953	30.00	-17.00
	16-QAM	1720.0	-11.50	1 / 99	23.81	12.31	17.022	30.00	-17.69

Table 7-2. Antenna FCM EIRP Data (LTE Band 66)

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Antenna FCM LTE Band 4


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-11.50	1 / 3	24.50	13.00	19.953	30.00	-17.00
		1732.5	-11.50	1 / 5	24.41	12.91	19.543	30.00	-17.09
		1754.3	-11.50	1 / 3	24.40	12.90	19.498	30.00	-17.10
	16-QAM	1710.7	-11.50	1 / 5	23.78	12.28	16.904	30.00	-17.72
3 MHz	QPSK	1711.5	-11.50	1 / 7	24.50	13.00	19.953	30.00	-17.00
		1732.5	-11.50	1 / 0	24.44	12.94	19.679	30.00	-17.06
		1753.5	-11.50	1 / 0	24.48	12.98	19.861	30.00	-17.02
	16-QAM	1732.5	-11.50	1 / 0	23.82	12.32	17.061	30.00	-17.68
5 MHz	QPSK	1712.5	-11.50	1 / 12	24.44	12.94	19.679	30.00	-17.06
		1732.5	-11.50	1 / 12	24.50	13.00	19.953	30.00	-17.00
		1752.5	-11.50	1 / 24	24.45	12.95	19.724	30.00	-17.05
	16-QAM	1712.5	-11.50	1 / 24	23.65	12.15	16.406	30.00	-17.85
10 MHz	QPSK	1715.0	-11.50	1 / 25	24.45	12.95	19.724	30.00	-17.05
		1732.5	-11.50	1 / 25	24.50	13.00	19.953	30.00	-17.00
		1750.0	-11.50	1 / 49	24.50	13.00	19.953	30.00	-17.00
	16-QAM	1732.5	-11.50	1 / 25	23.86	12.36	17.219	30.00	-17.64
15 MHz	QPSK	1717.5	-11.50	1 / 37	24.50	13.00	19.953	30.00	-17.00
		1732.5	-11.50	1 / 74	24.43	12.93	19.634	30.00	-17.07
		1747.5	-11.50	1 / 74	24.42	12.92	19.588	30.00	-17.08
	16-QAM	1747.5	-11.50	1 / 74	23.79	12.29	16.943	30.00	-17.71
20 MHz	QPSK	1720.0	-11.50	1 / 0	24.50	13.00	19.953	30.00	-17.00
		1732.5	-11.50	1 / 50	24.41	12.91	19.543	30.00	-17.09
		1745.0	-11.50	1 / 50	24.47	12.97	19.815	30.00	-17.03
	16-QAM	1720.0	-11.50	1 / 99	23.91	12.41	17.418	30.00	-17.59

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

Antenna FCM WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.98	-11.50	12.48	17.701	30.00	-17.52
1732.60	WCDMA1700	24.00	-11.50	12.50	17.783	30.00	-17.50
1752.60	WCDMA1700	23.95	-11.50	12.45	17.579	30.00	-17.55

Table 7-4. Antenna FCM EIRP Data (WCDMA AWS)

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7.6.2 Antenna BCM ERP/EIRP

Antenna BCM LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-29.70	1 / 5	24.88	-6.97	0.201	34.77	-41.74	-4.82	0.330	36.99	-41.81
		707.5	-29.70	1 / 0	25.00	-6.85	0.207	34.77	-41.62	-4.70	0.339	36.99	-41.69
		715.3	-29.70	1 / 0	25.13	-6.72	0.213	34.77	-41.49	-4.57	0.349	36.99	-41.56
3 MHz	QPSK	707.5	-29.70	1 / 5	24.30	-7.55	0.176	34.77	-42.32	-5.40	0.288	36.99	-42.39
		700.5	-29.70	1 / 0	25.03	-6.82	0.208	34.77	-41.59	-4.67	0.341	36.99	-41.66
		707.5	-29.70	1 / 0	25.19	-6.66	0.216	34.77	-41.43	-4.51	0.354	36.99	-41.50
	16-QAM	714.5	-29.70	1 / 7	24.84	-7.01	0.199	34.77	-41.78	-4.86	0.327	36.99	-41.85
		714.5	-29.70	1 / 7	24.37	-7.48	0.179	34.77	-42.25	-5.33	0.293	36.99	-42.32
5 MHz	QPSK	701.5	-29.70	1 / 0	25.02	-6.83	0.207	34.77	-41.60	-4.68	0.340	36.99	-41.67
		707.5	-29.70	1 / 0	25.08	-6.77	0.210	34.77	-41.54	-4.62	0.345	36.99	-41.61
		713.5	-29.70	1 / 12	24.84	-7.01	0.199	34.77	-41.78	-4.86	0.327	36.99	-41.85
	16-QAM	707.5	-29.70	1 / 0	24.48	-7.37	0.183	34.77	-42.14	-5.22	0.301	36.99	-42.21
10 MHz	QPSK	704.0	-29.70	1 / 0	24.81	-7.04	0.198	34.77	-41.81	-4.89	0.324	36.99	-41.88
		707.5	-29.70	1 / 49	24.94	-6.91	0.204	34.77	-41.68	-4.76	0.334	36.99	-41.75
		711.0	-29.70	1 / 25	25.10	-6.75	0.211	34.77	-41.52	-4.60	0.347	36.99	-41.59
	16-QAM	704.0	-29.70	1 / 0	24.33	-7.52	0.177	34.77	-42.29	-5.37	0.290	36.99	-42.36

Table 7-5. Antenna BCM ERP/EIRP Data (LTE Band 12)

Antenna BCM LTE Band 17


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-29.70	1 / 12	25.00	-6.85	0.207	34.77	-41.62	-4.70	0.339	36.99	-41.69
		710.0	-29.70	1 / 24	25.23	-6.62	0.218	34.77	-41.39	-4.47	0.357	36.99	-41.46
		713.5	-29.70	1 / 12	24.81	-7.04	0.198	34.77	-41.81	-4.89	0.324	36.99	-41.88
	16-QAM	706.5	-29.70	1 / 0	24.30	-7.55	0.176	34.77	-42.32	-5.40	0.288	36.99	-42.39
10 MHz	QPSK	709.0	-29.70	1 / 49	24.94	-6.91	0.204	34.77	-41.68	-4.76	0.334	36.99	-41.75
		710.0	-29.70	1 / 49	25.15	-6.70	0.214	34.77	-41.47	-4.55	0.351	36.99	-41.54
		711.0	-29.70	1 / 25	24.80	-7.05	0.197	34.77	-41.82	-4.90	0.324	36.99	-41.89
	16-QAM	710.0	-29.70	1 / 0	24.37	-7.48	0.179	34.77	-42.25	-5.33	0.293	36.99	-42.32

Table 7-6. Antenna BCM ERP/EIRP Data (LTE Band 17)

Antenna BCM LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-26.10	1 / 0	25.20	-3.05	0.495	34.77	-37.82	-0.90	0.813	36.99	-37.89
		782.0	-26.10	1 / 24	25.20	-3.05	0.495	34.77	-37.82	-0.90	0.813	36.99	-37.89
		784.5	-26.10	1 / 12	24.88	-3.37	0.460	34.77	-38.14	-1.22	0.755	36.99	-38.21
10 MHz	16-QAM	782.0	-26.10	1 / 24	24.65	-3.60	0.437	34.77	-38.37	-1.45	0.716	36.99	-38.44
	QPSK	782.0	-26.10	1 / 25	25.10	-3.15	0.484	34.77	-37.92	-1.00	0.794	36.99	-37.99
		782.0	-26.10	1 / 0	24.50	-3.75	0.422	34.77	-38.52	-1.60	0.692	36.99	-38.59

Table 7-7. Antenna BCM ERP/EIRP Data (LTE Band 13)

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7.7 Radiated Spurious Emissions

\$2.1053, \$27.53(f)

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

ANSI C63.26-2015, TIA-603-E-2016 – Section 2.2.12

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.

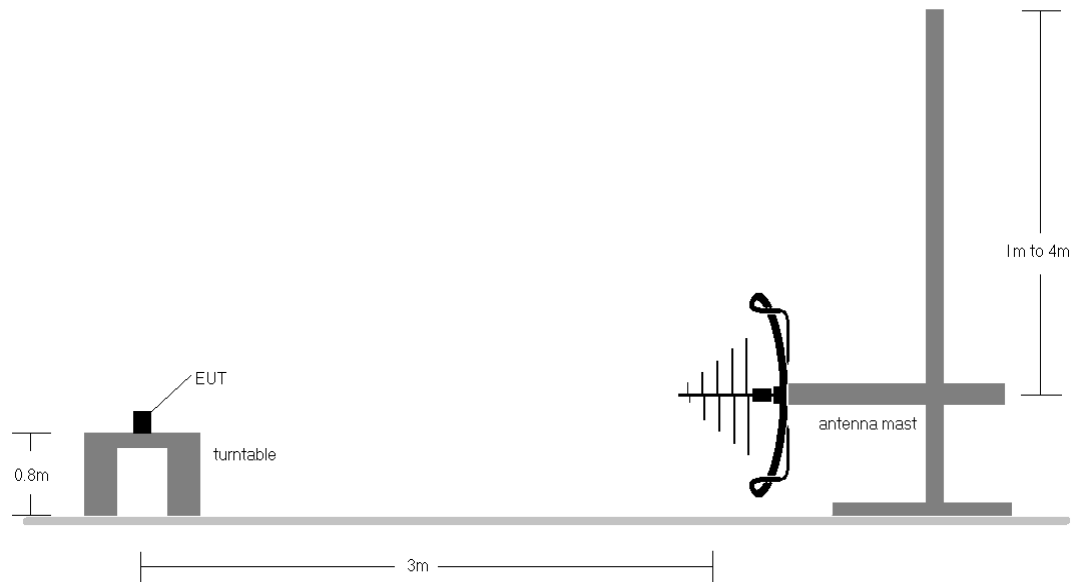


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

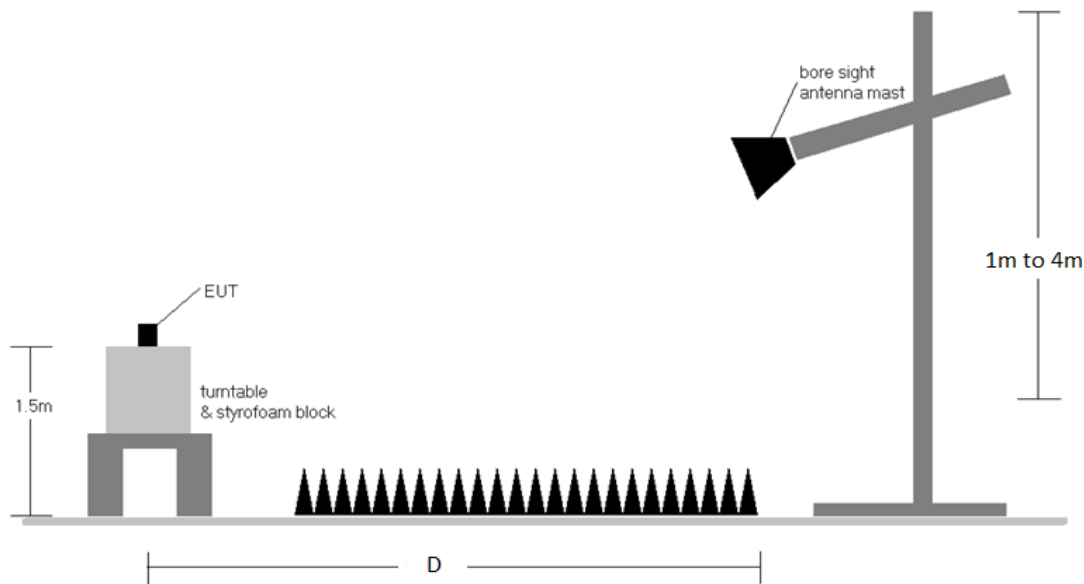




Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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Test Notes

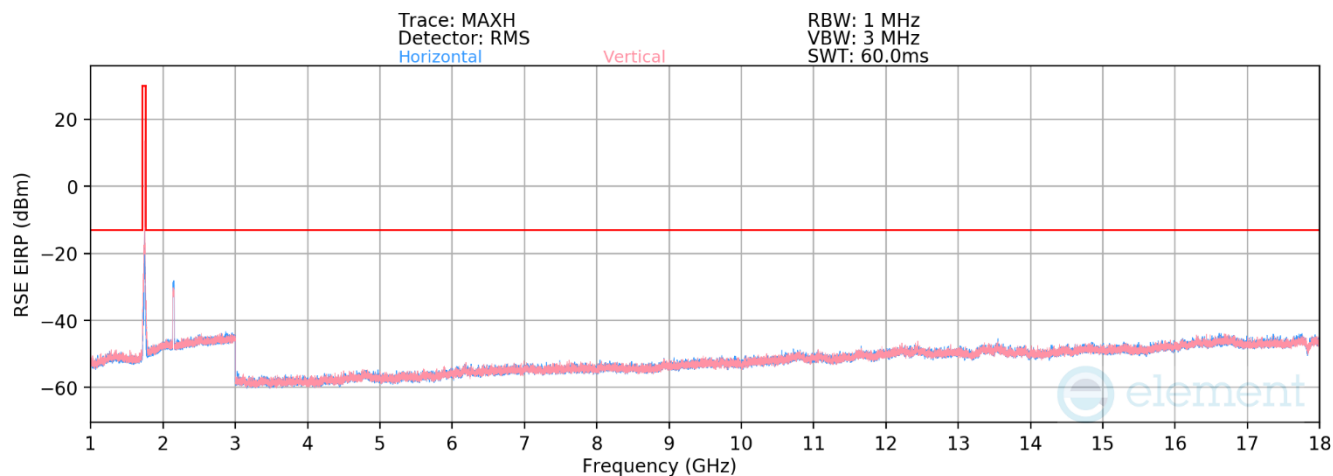
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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.

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7.7.1 Radiated Spurious Emission Measurement

Antenna FCM LTE Band 66/4



Plot 7-153. Antenna FCM Radiated Spurious Emission above 1GHz (LTE Band 66/4)

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Bandwidth (MHz):	20
Frequency (MHz):	1720.0
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]
3440.0	V	-	-	-80.08	4.30	31.22	-64.04	-13.00	-51.04
5160.0	V	-	-	-81.04	6.23	32.19	-63.07	-13.00	-50.07
6880.0	V	-	-	-82.50	9.82	34.32	-60.94	-13.00	-47.94

Table 7-8. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
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]
3490.0	V	-	-	-78.16	4.14	32.98	-62.27	-13.00	-49.27
5235.0	V	-	-	-79.80	6.74	33.94	-61.32	-13.00	-48.32
6980.0	V	-	-	-80.90	9.56	35.66	-59.59	-13.00	-46.59

Table 7-9. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

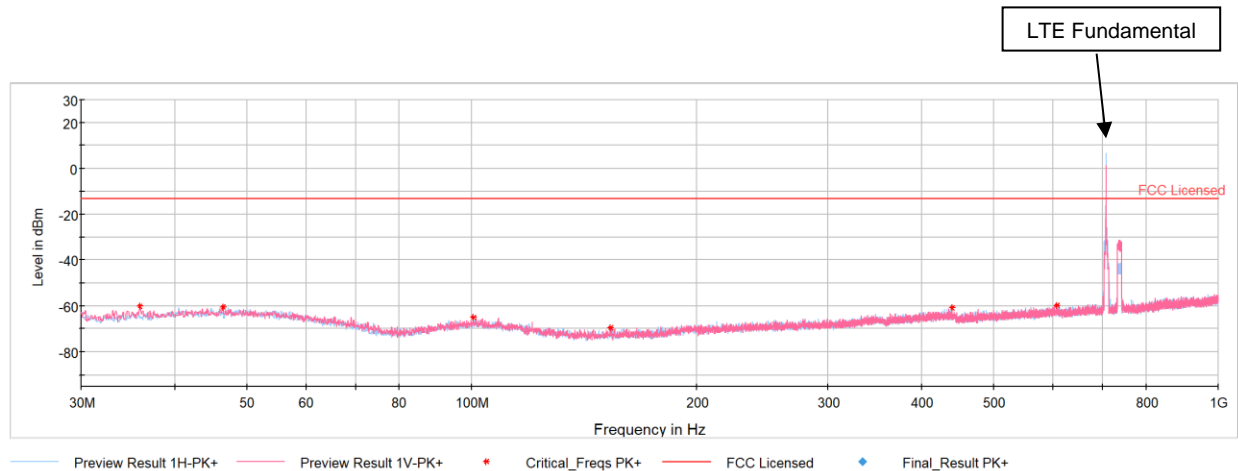
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.32	4.28	32.96	-62.30	-13.00	-49.30
5310.0	V	-	-	-79.90	7.57	34.67	-60.59	-13.00	-47.59
7080.0	V	-	-	-81.25	10.15	35.90	-59.36	-13.00	-46.36

Table 7-10. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)

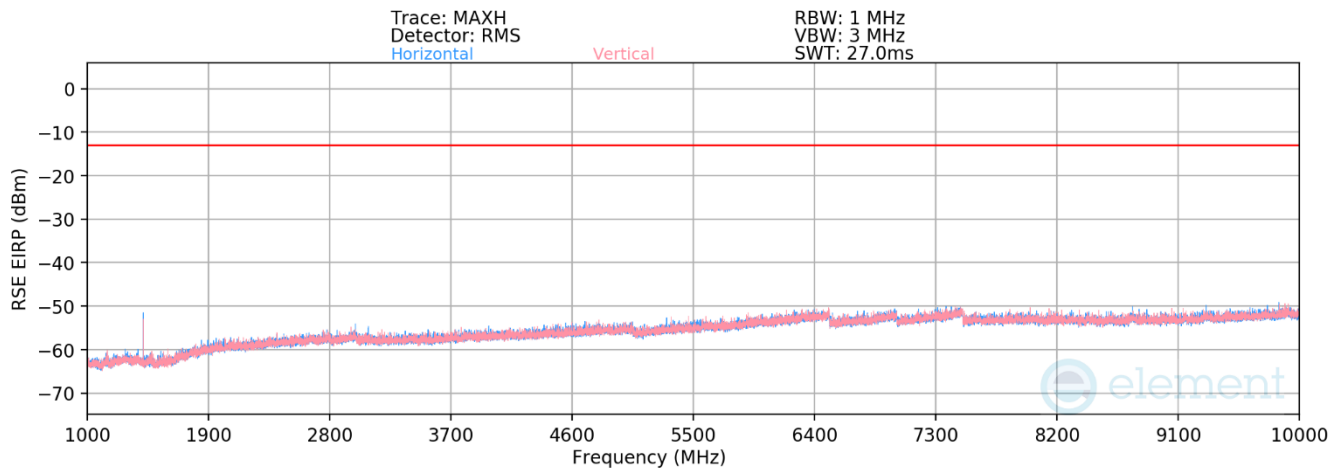
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Antenna BCM LTE Band 12/17



Plot 7-154. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-155. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 12/17)

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Bandwidth (MHz):	10
Frequency (MHz):	704.0
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]
1408.0	V	115	301	-72.65	-3.41	30.94	-64.31	-13.00	-51.31
2112.0	V	153	240	-76.75	0.14	30.39	-64.87	-13.00	-51.87
2816.0	V	-	-	-77.83	1.85	31.02	-64.24	-13.00	-51.24
3520.0	V	-	-	-78.56	3.80	32.24	-63.02	-13.00	-50.02
4224.0	V	-	-	-78.92	5.14	33.22	-62.04	-13.00	-49.04

Table 7-11. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.0	V	167	109	-73.61	-3.40	29.99	-65.27	-13.00	-52.27
2122.5	V	111	224	-75.68	0.19	31.51	-63.75	-13.00	-50.75
2830.0	V	-	-	-77.96	1.95	30.99	-64.26	-13.00	-51.26
3537.5	V	-	-	-78.44	3.93	32.49	-62.76	-13.00	-49.76
4245.0	V	-	-	-78.75	5.05	33.30	-61.96	-13.00	-48.96

Table 7-12. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

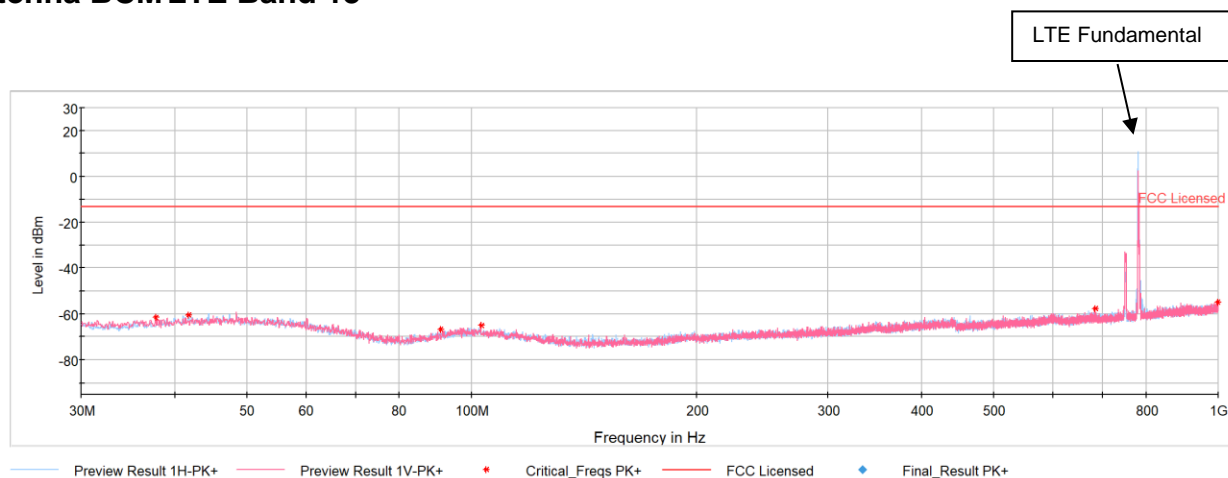
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	V	319	256	-73.06	-3.44	30.50	-64.76	-13.00	-51.76
2133.0	V	326	270	-76.46	0.21	30.75	-64.50	-13.00	-51.50
2844.0	V	-	-	-77.94	2.19	31.25	-64.00	-13.00	-51.00
3555.0	V	-	-	-78.49	3.77	32.28	-62.98	-13.00	-49.98
4266.0	V	-	-	-78.97	5.13	33.16	-62.10	-13.00	-49.10

Table 7-13. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – High Channel)

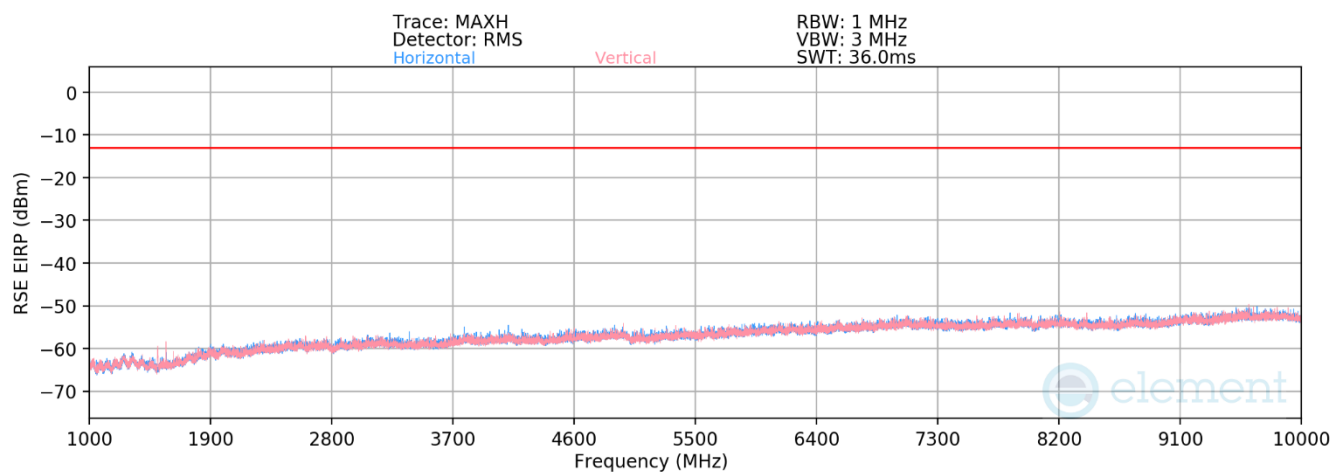
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Antenna BCM LTE Band 13



Plot 7-156. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-157. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCG-A2622		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	779.5
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]
1559.0	V	132	285	-76.68	5.58	35.90	-59.35	-40.00	-19.35
2338.5	V	235	249	-75.13	10.68	42.55	-52.71	-13.00	-39.71
3118.0	V	-	-	-78.77	12.78	41.01	-54.25	-13.00	-41.25
3897.5	V	-	-	-79.50	14.26	41.76	-53.50	-13.00	-40.50
4677.0	V	-	-	-79.85	15.38	42.53	-52.73	-13.00	-39.73

Table 7-14. Antenna BCM Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	5
Frequency (MHz):	782.0
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]
1564.0	V	194	230	-75.52	5.58	37.06	-58.19	-40.00	-18.19
2346.0	V	399	19	-77.07	10.68	40.61	-54.65	-13.00	-41.65
3128.0	V	-	-	-78.32	12.78	41.46	-53.80	-13.00	-40.80
3910.0	V	-	-	-78.74	14.26	42.52	-52.74	-13.00	-39.74
4692.0	V	-	-	-79.38	15.38	43.00	-52.26	-13.00	-39.26

Table 7-15. Antenna BCM Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

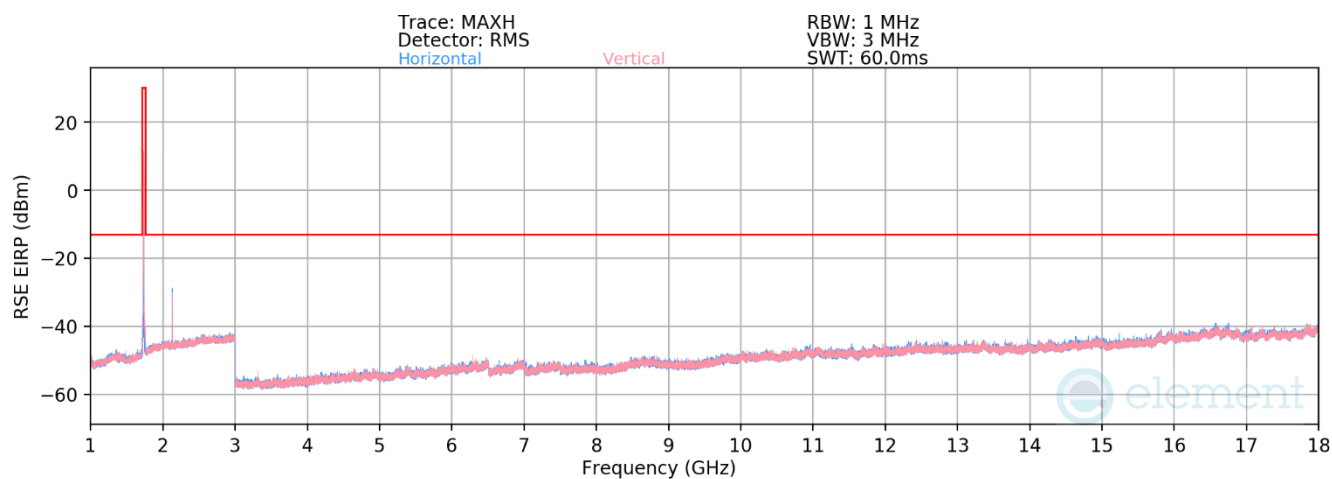
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	V	184	146	-76.55	5.58	36.03	-59.22	-40.00	-19.22
2353.5	V	172	27	-77.86	10.68	39.82	-55.44	-13.00	-42.44
3138.0	V	-	-	-78.15	12.78	41.63	-53.63	-13.00	-40.63
3922.5	V	-	-	-78.96	14.26	42.30	-52.96	-13.00	-39.96
4707.0	V	-	-	-79.21	15.38	43.17	-52.09	-13.00	-39.09

Table 7-16. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)


FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Antenna FCM WCDMA AWS



Plot 7-158. Antenna FCM Radiated Spurious Emission above 1GHz (WCDMA AWS)

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Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
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]
3424.8	V	-	-	-79.10	4.06	31.96	-63.30	-13.00	-50.30
5137.2	V	-	-	-79.90	6.72	33.82	-61.44	-13.00	-48.44
6849.6	V	-	-	-80.70	8.74	35.04	-60.22	-13.00	-47.22


7-17. Antenna FCM Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
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]
3465.2	V	-	-	-78.99	3.73	31.74	-63.52	-13.00	-50.52
5197.8	V	-	-	-80.22	6.80	33.58	-61.67	-13.00	-48.67
6930.4	V	-	-	-80.32	9.41	36.09	-59.17	-13.00	-46.17

Table 7-18. Antenna FCM Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
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]
3505.2	V	-	-	-78.87	3.75	31.88	-63.37	-13.00	-50.37
5257.8	V	-	-	-79.93	7.60	34.67	-60.59	-13.00	-47.59
7010.4	V	-	-	-80.22	9.11	35.89	-59.37	-13.00	-46.37

Table 7-19. Antenna FCM Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

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.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

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

Test Setup

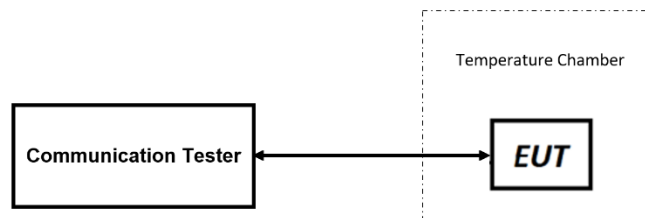



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None


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Frequency Stability / Temperature Variation

LTE Band 66/4							
			Low Channel Frequency (Hz):		1,720,000,000		
			High Channel Frequency (Hz):		1,770,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,720,000,001	1,770,000,001	1.12	0.75	0.0000001
		- 20	1,720,000,001	1,770,000,001	0.99	1.45	0.0000001
		- 10	1,720,000,006	1,770,000,002	6.28	2.15	0.0000004
		0	1,720,000,001	1,770,000,002	1.05	2.35	0.0000001
		+ 10	1,720,000,003	1,770,000,007	3.45	6.87	0.0000004
		+ 20 (Ref)	1,720,000,000	1,770,000,000	0.00	0.00	0.0000000
		+ 30	1,720,000,004	1,770,000,006	4.48	6.42	0.0000004
		+ 40	1,720,000,004	1,770,000,006	4.28	6.42	0.0000004
		+ 50	1,720,000,007	1,770,000,008	6.69	7.80	0.0000004
Battery Endpoint	3.40	+ 20	1,719,999,999	1,770,000,001	-0.93	0.59	-0.0000001

Table 7-20. LTE Band 66/4 Frequency Stability Data


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Frequency Stability / Temperature Variation

LTE Band 12/17							
			Low Channel Frequency (Hz):	704,000,000			
			High Channel Frequency (Hz):	711,000,000			
			Ref. Voltage (VDC):	3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	704,000,001	711,000,001	1.05	0.82	0.0000001
		- 20	704,000,001	711,000,001	0.95	0.77	0.0000001
		- 10	704,000,001	711,000,001	0.92	0.84	0.0000001
		0	704,000,001	711,000,001	0.89	0.68	0.0000001
		+ 10	704,000,001	711,000,001	1.29	0.92	0.0000002
		+ 20 (Ref)	704,000,000	711,000,000	0.00	0.00	0.0000000
		+ 30	704,000,002	711,000,001	1.79	1.03	0.0000003
		+ 40	704,000,001	711,000,001	1.25	0.62	0.0000002
		+ 50	704,000,001	711,000,001	0.92	0.57	0.0000001
Battery Endpoint	3.40	+ 20	704,000,001	711,000,000	1.34	-0.19	0.0000001

Table 7-21. LTE Band 12/17 Frequency Stability Data


FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 13							
			Low Channel Frequency (Hz):		779,500,000		
			High Channel Frequency (Hz):		784,500,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	779,500,003	784,500,002	2.79	2.25	0.0000004
		- 20	779,500,004	784,500,005	4.39	4.97	0.0000006
		- 10	779,500,004	784,500,004	4.12	4.28	0.0000005
		0	779,500,002	784,500,002	2.42	1.95	0.0000003
		+ 10	779,500,002	784,500,002	2.07	1.84	0.0000003
		+ 20 (Ref)	779,500,000	784,500,000	0.00	0.00	0.0000000
		+ 30	779,500,004	784,500,003	3.89	3.28	0.0000005
		+ 40	779,500,002	784,500,002	1.90	2.25	0.0000003
		+ 50	779,500,002	784,500,002	2.19	1.87	0.0000001
Battery Endpoint	3.40	+ 20	779,500,001	784,500,001	1.26	1.47	0.0000001

Table 7-22. LTE Band 13 Frequency Stability Data


FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

WCDMA AWS							
			Low Channel Frequency (Hz):		1,712,400,000		
			High Channel Frequency (Hz):		1,752,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,712,400,001	1,752,600,000	0.89	-0.47	0.0000001
		- 20	1,712,400,001	1,752,600,000	0.57	0.27	0.0000000
		- 10	1,712,400,001	1,752,600,000	0.98	0.43	0.0000001
		0	1,712,399,999	1,752,600,001	-0.92	0.65	-0.0000001
		+ 10	1,712,399,999	1,752,600,001	-0.70	0.92	0.0000001
		+ 20 (Ref)	1,712,400,000	1,752,600,000	0.00	0.00	0.0000000
		+ 30	1,712,400,001	1,752,600,000	1.05	-0.40	0.0000001
		+ 40	1,712,400,001	1,752,600,000	0.74	0.29	0.0000000
		+ 50	1,712,400,001	1,752,600,001	1.04	0.57	0.0000001
Battery Endpoint	3.40	+ 20	1,712,399,999	1,752,599,999	-0.53	-0.77	0.0000000


Table 7-23. WCDMA AWS Frequency Stability Data

FCC ID: BCG-A2622	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch** **FCC ID: BCG-A2622** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCG-A2622		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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9.0 APPENDIX A

Antenna gains provided by the manufacturer:

A2622 Antenna Specifications

Cellular Antenna Gain (FCM), Type: IFA			
Band	Frequency (MHz)	Horizontal (dBi)	VerFcal (dBi)
1	1921.6	-8.4	-7.9
1	1950.0	-8.0	-7.2
1	1978.4	-8.0	-6.9
3	1711.6	-13.3	-11.7
3	1747.5	-13.4	-11.8
3	1783.4	-13.0	-11.5
7	2502.6	-8.9	-8.3
7	2535.0	-7.1	-7.2
7	2567.4	-6.9	-7.8
25	1851.0	-10.5	-9.7
25	1882.4	-9.2	-8.4
25	1914.0	-8.7	-8.4
39	1882.6	-9.1	-8.1
39	1900.0	-8.7	-8.2
39	1917.4	-8.4	-7.9
40	2302.6	-3.2	-3.3
40	2350.0	-4.8	-4.2
41	2498.6	-8.1	-7.9
41	2593.0	-7.2	-6.9
41	2687.4	-9.6	-8.8

Table 9-1. FCM Antenna Gains


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Cellular Antenna Gain (BCM), Type: LDS			
Band	Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)
12	700.0	-33.5	-30.3
12	707.4	-33.3	-29.7
12	715.0	-33.8	-29.8
13	778.6	-29.2	-26.4
13	782.0	-29.5	-26.5
13	785.4	-28.7	-26.1
26	815.0	-29.6	-26.8
26	831.4	-29.3	-26.1
26	848.0	-29.1	-25.7
40	2397.4	-11.7	-11.5

Table 9-2. BCM Antenna Gains

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