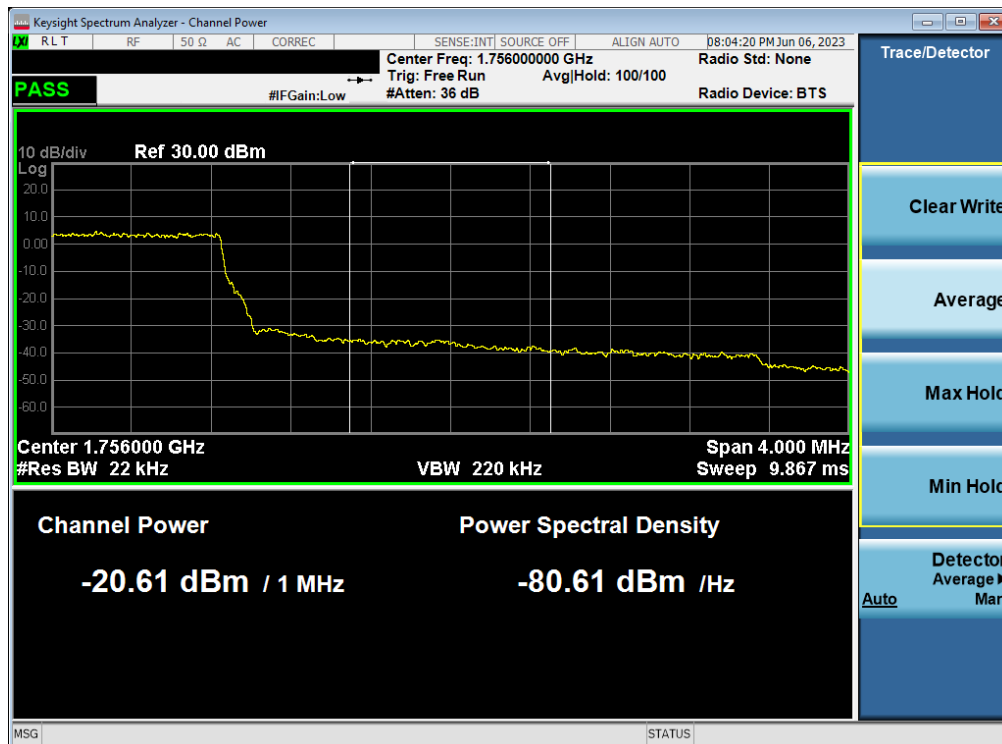


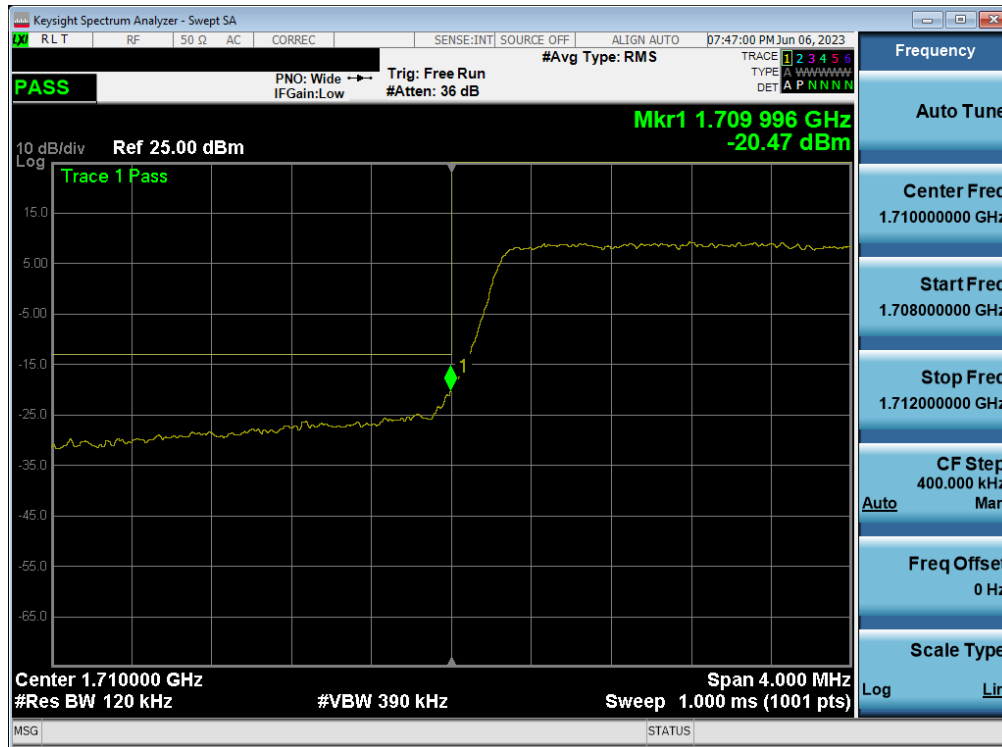


Plot 7-86. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

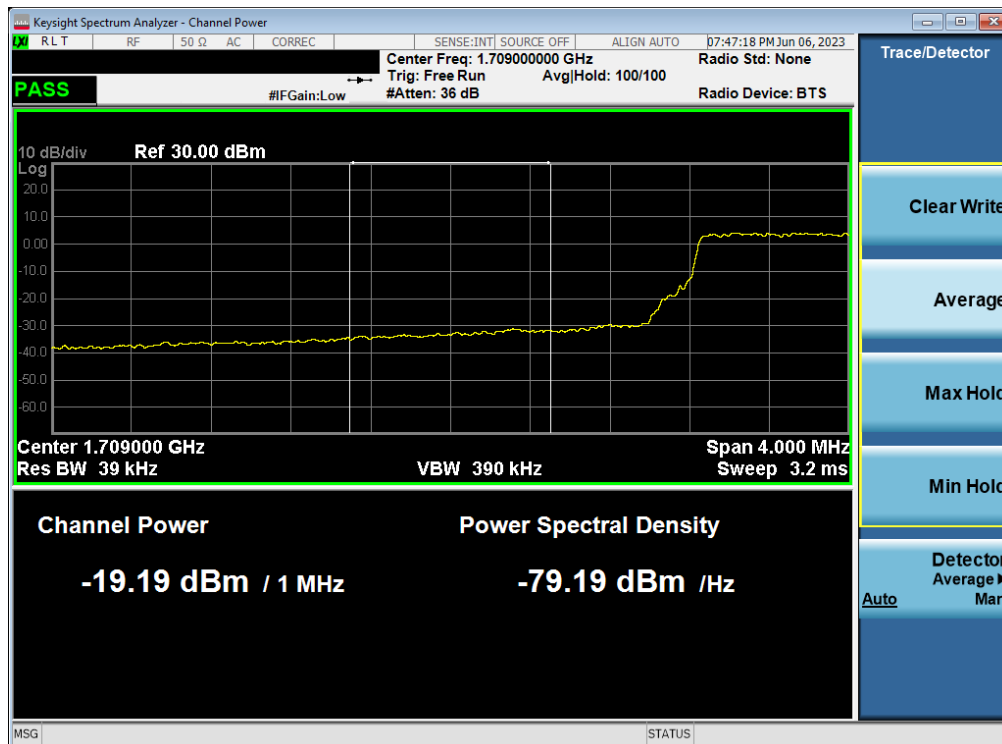


Plot 7-87. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-88. Lower Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

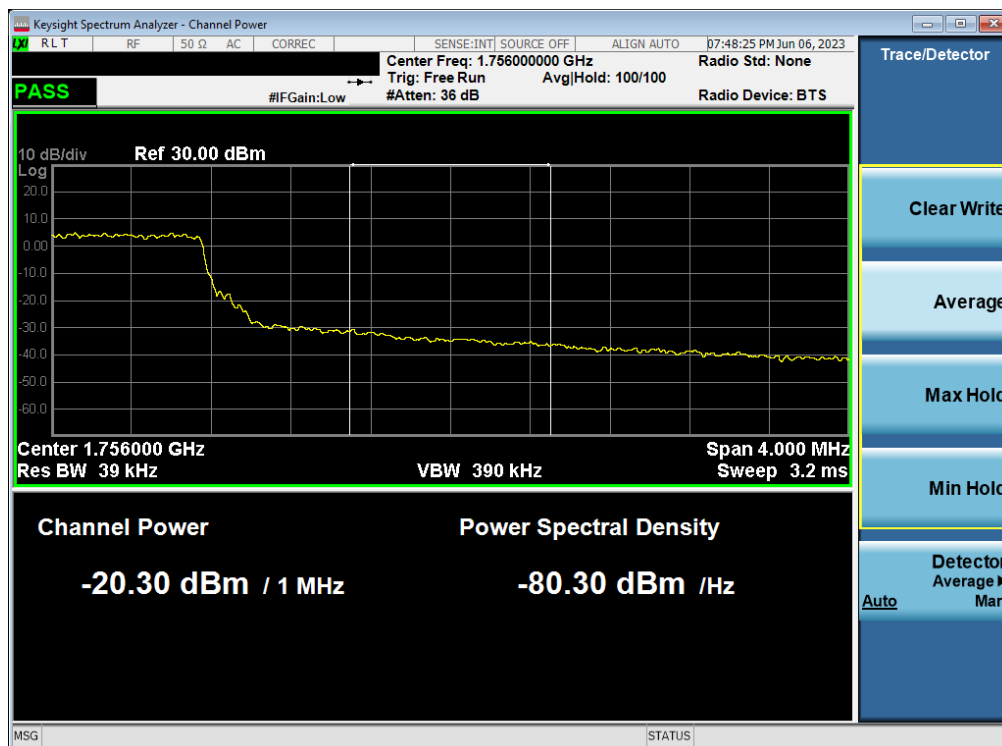


Plot 7-89. Lower Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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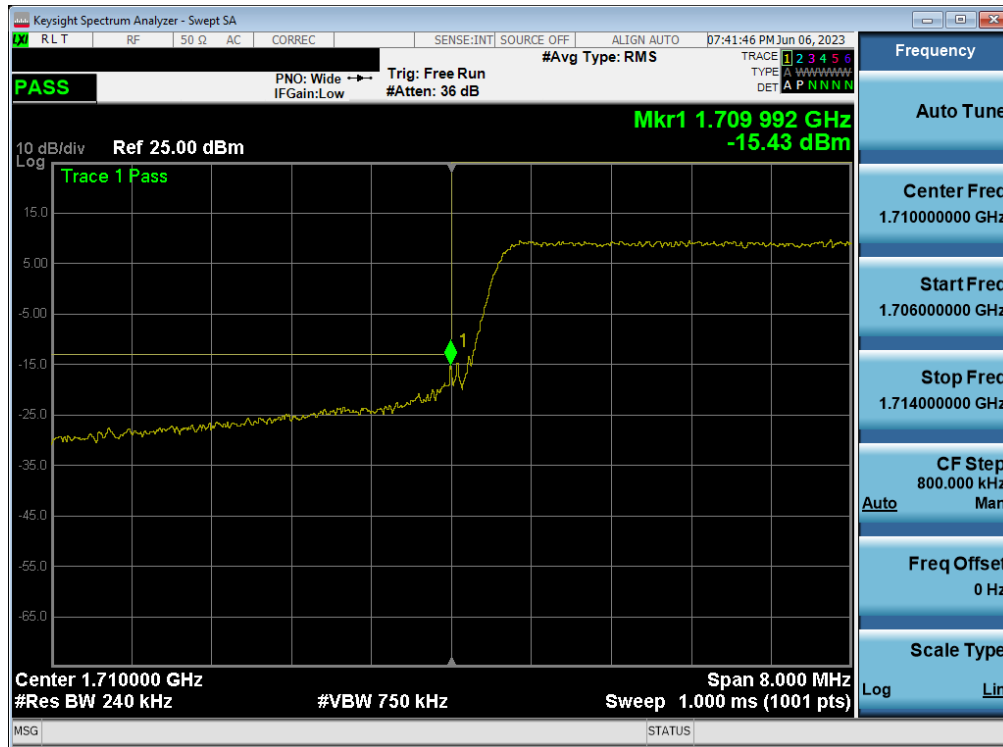


Plot 7-90. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

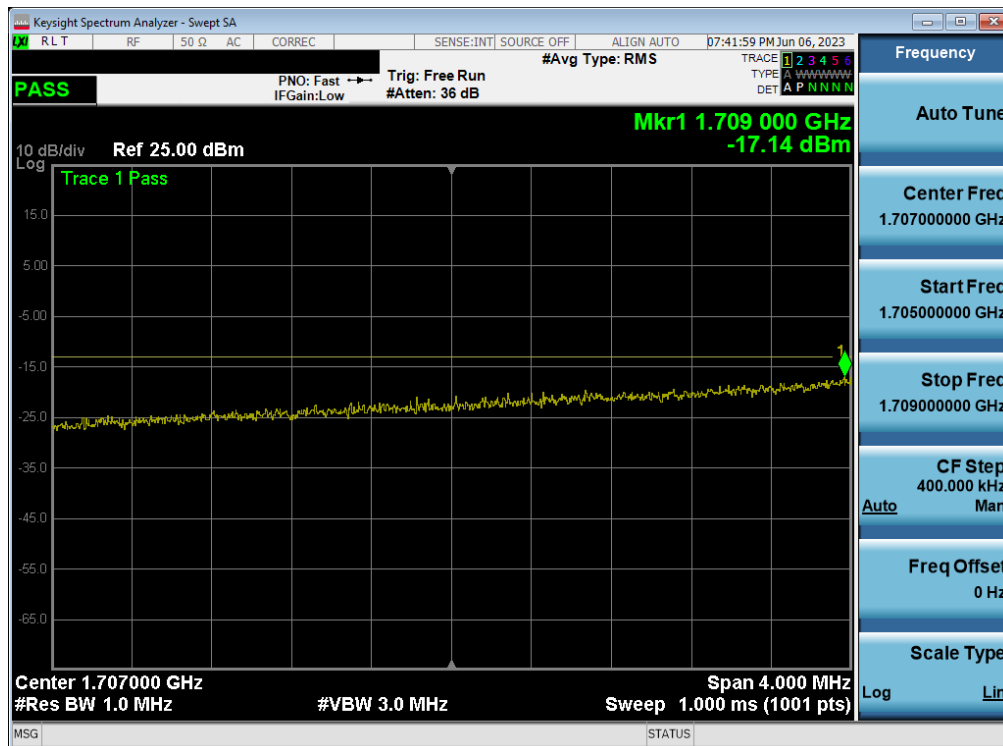


Plot 7-91. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-92. Lower Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)



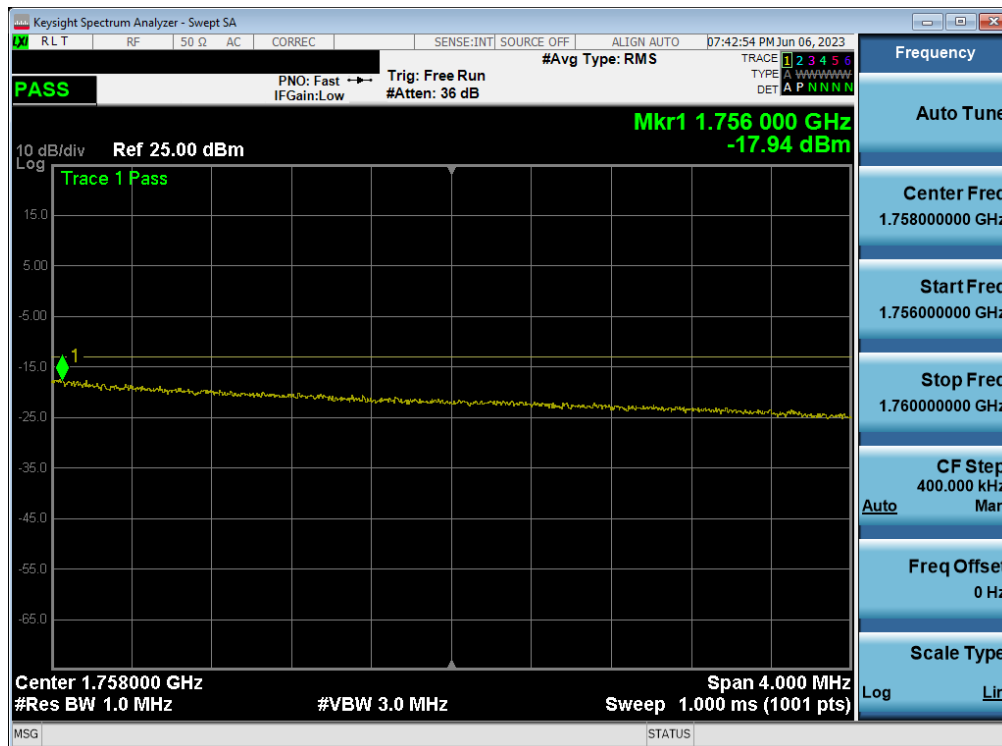
Plot 7-93. Lower Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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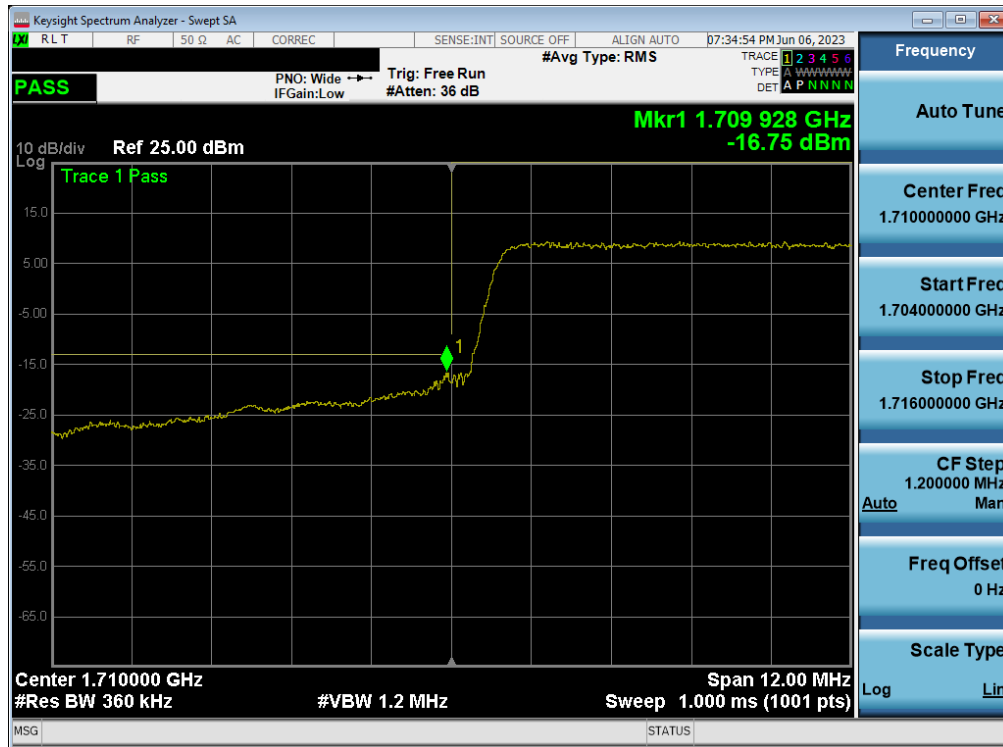


Plot 7-94. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

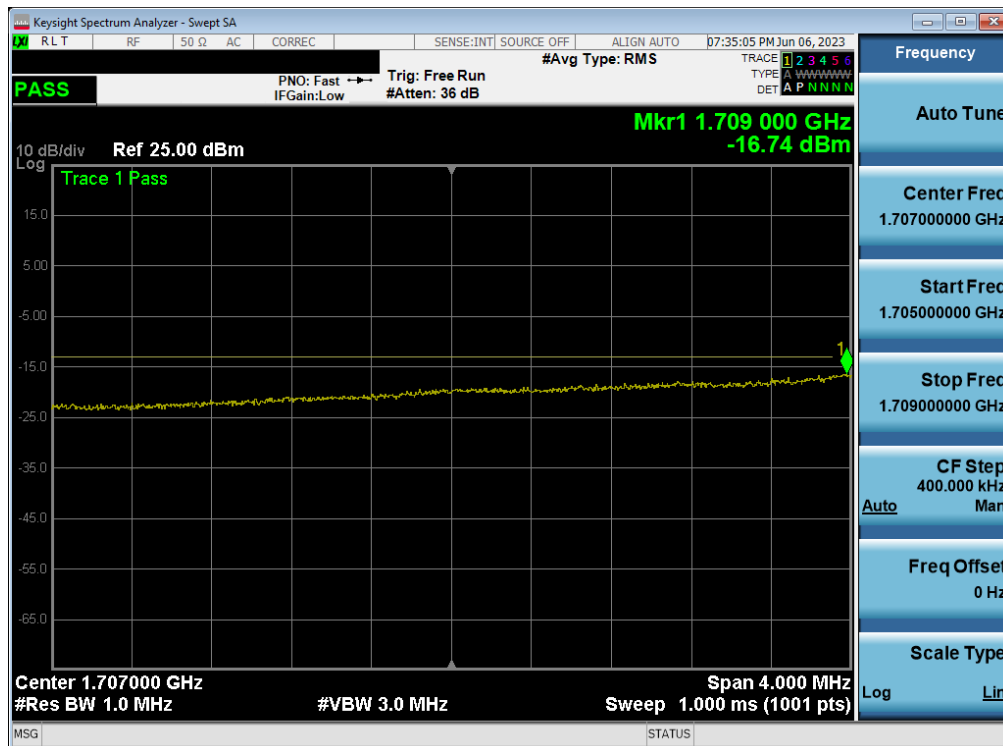


Plot 7-95. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-96. Lower Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)



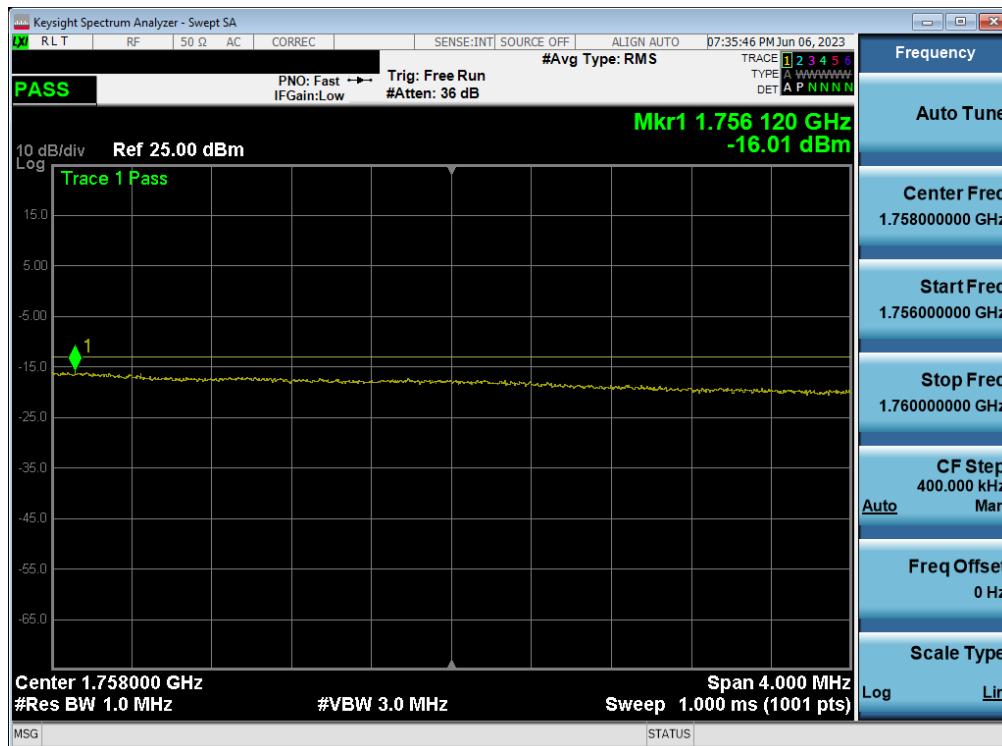
Plot 7-97. Lower Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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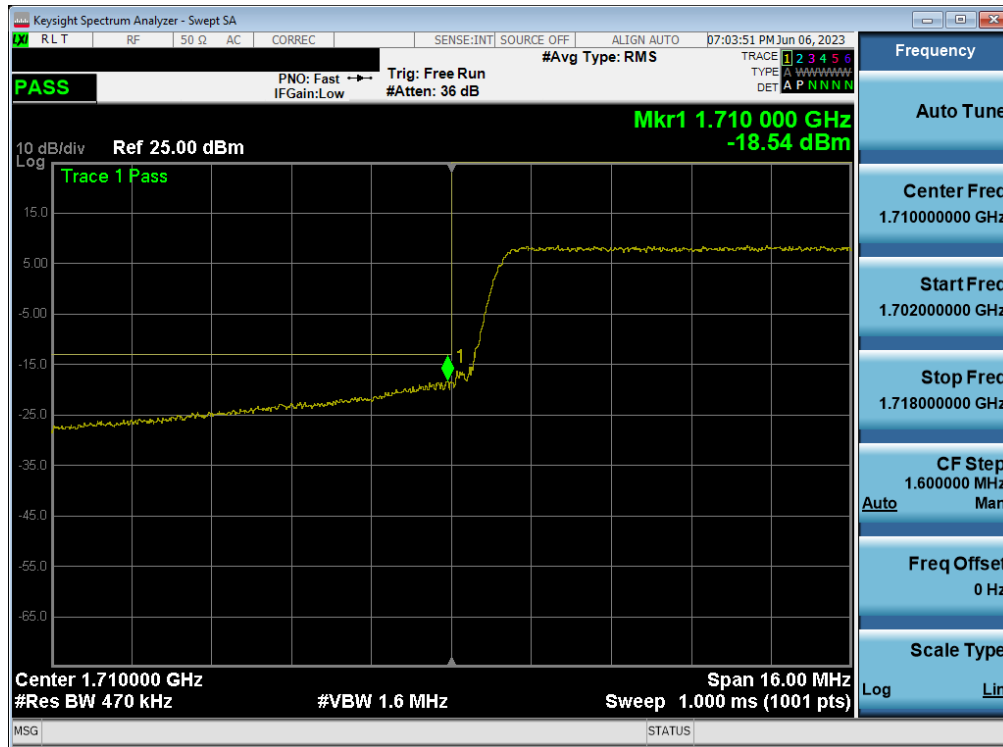
Plot 7-98. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)



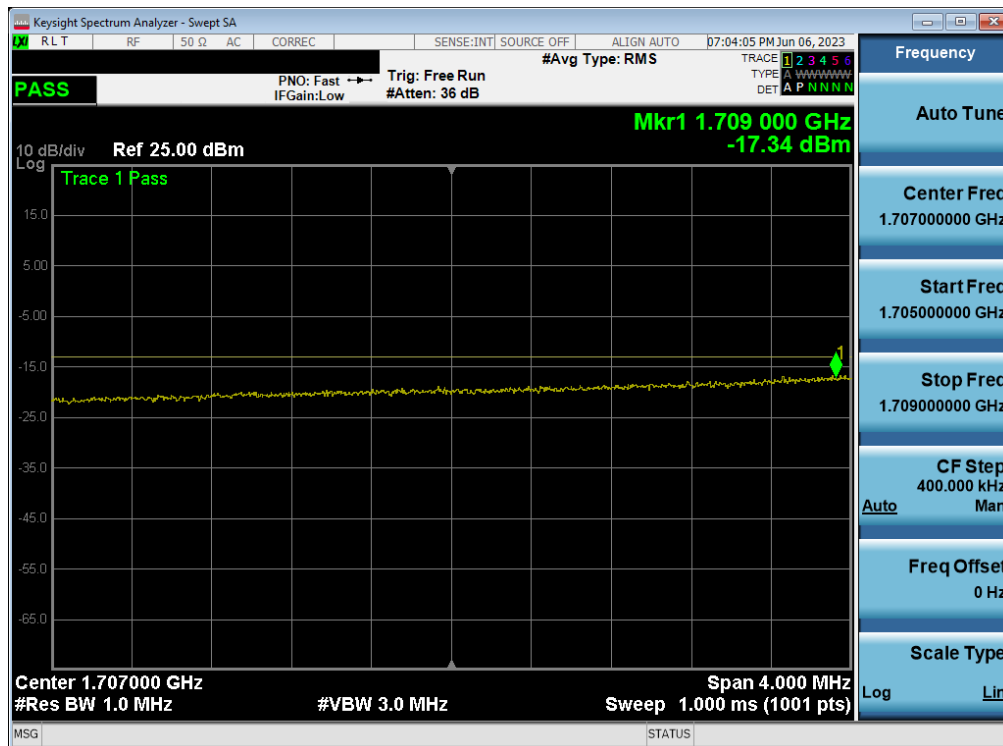
Plot 7-99. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2305020012-05.BCG	Test Dates: 06/08/2023 - 08/14/2023	EUT Type: Watch	Page 70 of 120

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



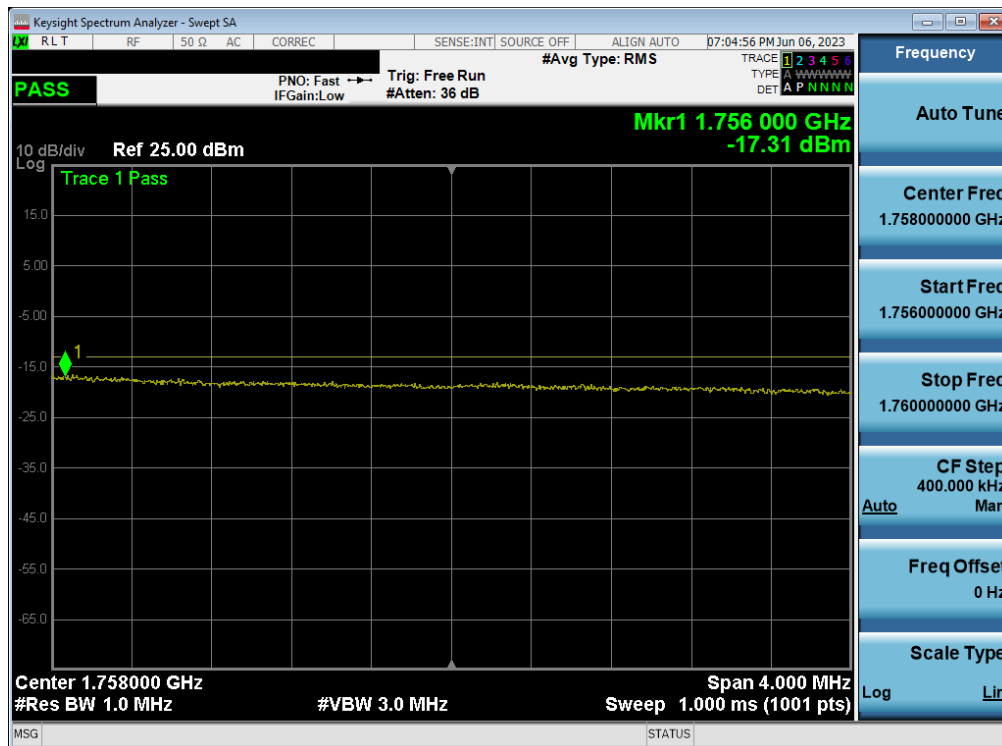
Plot 7-101. Lower Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2305020012-05.BCG	Test Dates: 06/08/2023 - 08/14/2023	EUT Type: Watch	Page 71 of 120

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Plot 7-102. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

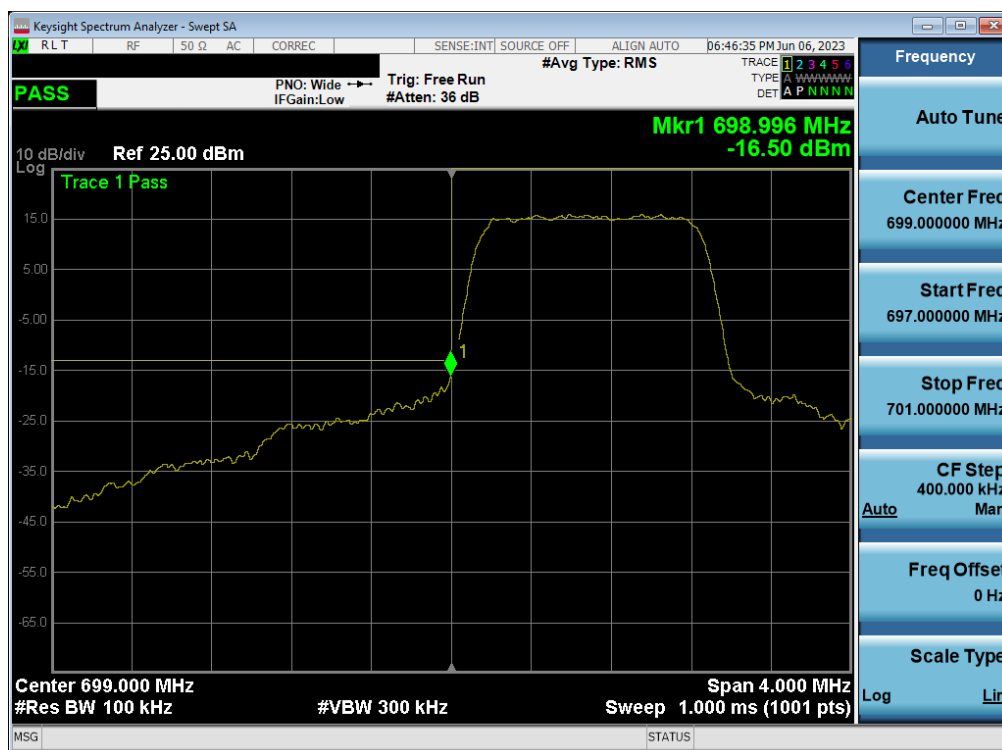


Plot 7-103. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 12



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

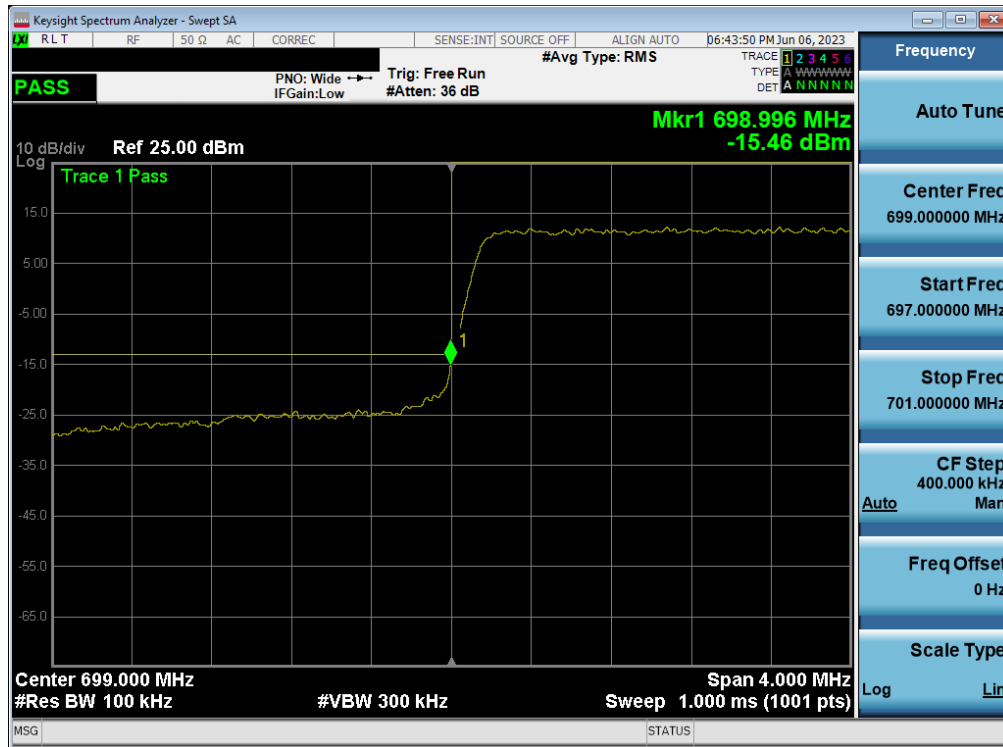


Plot 7-105. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)

FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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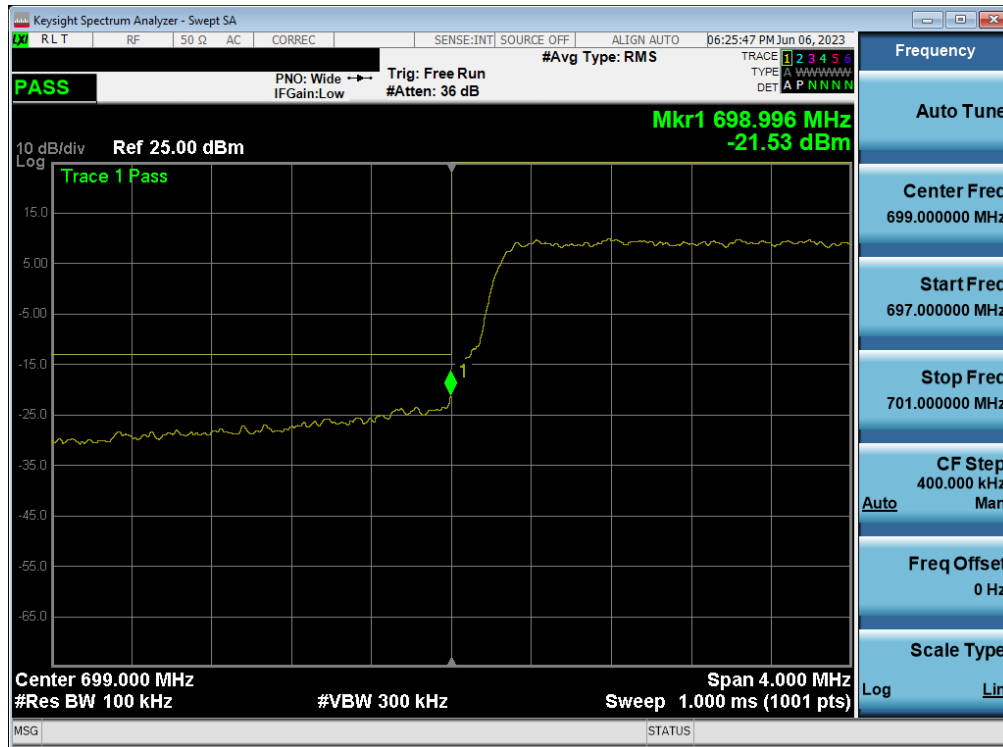
Plot 7-106. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB)



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

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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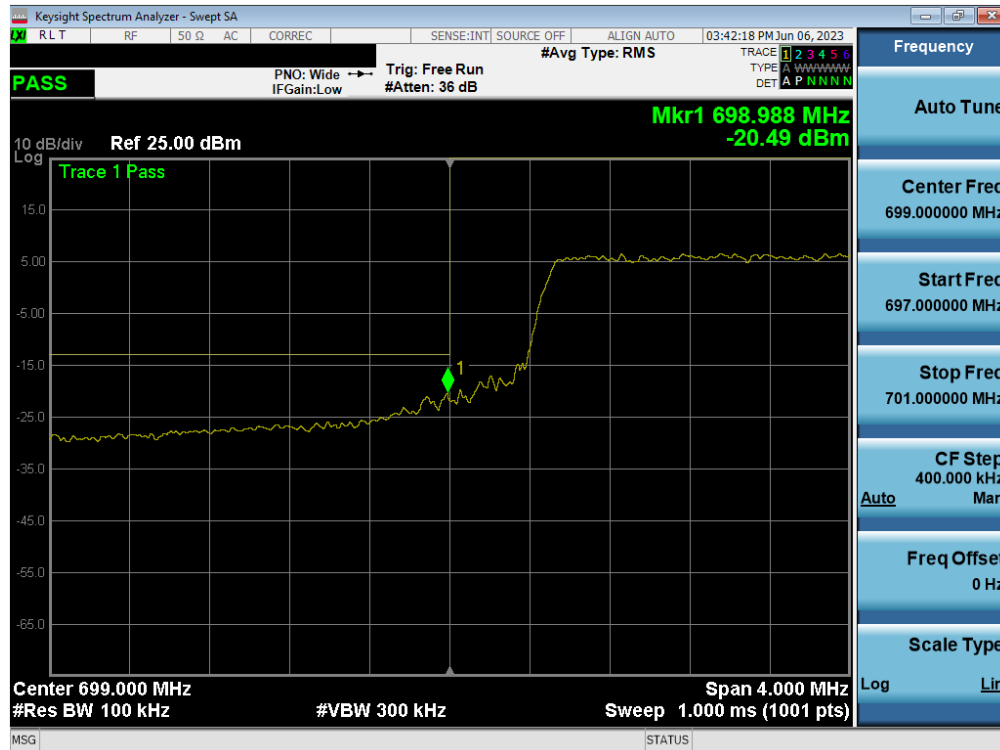


Plot 7-108. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB)



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

FCC ID: BCG-A2982	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)

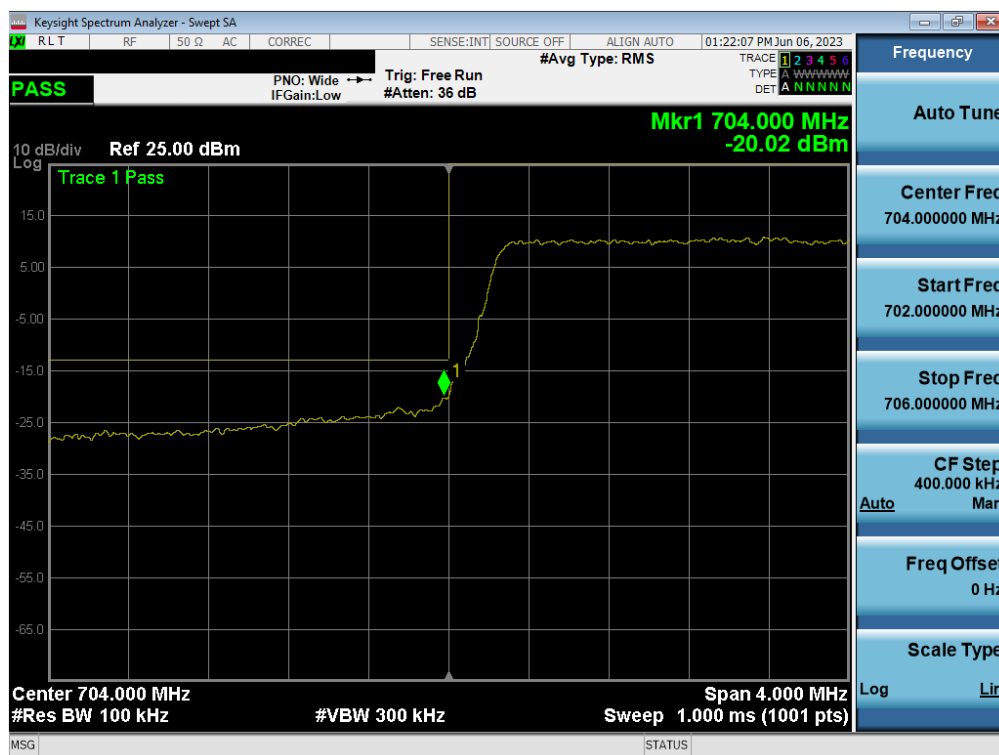


Plot 7-111. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 17



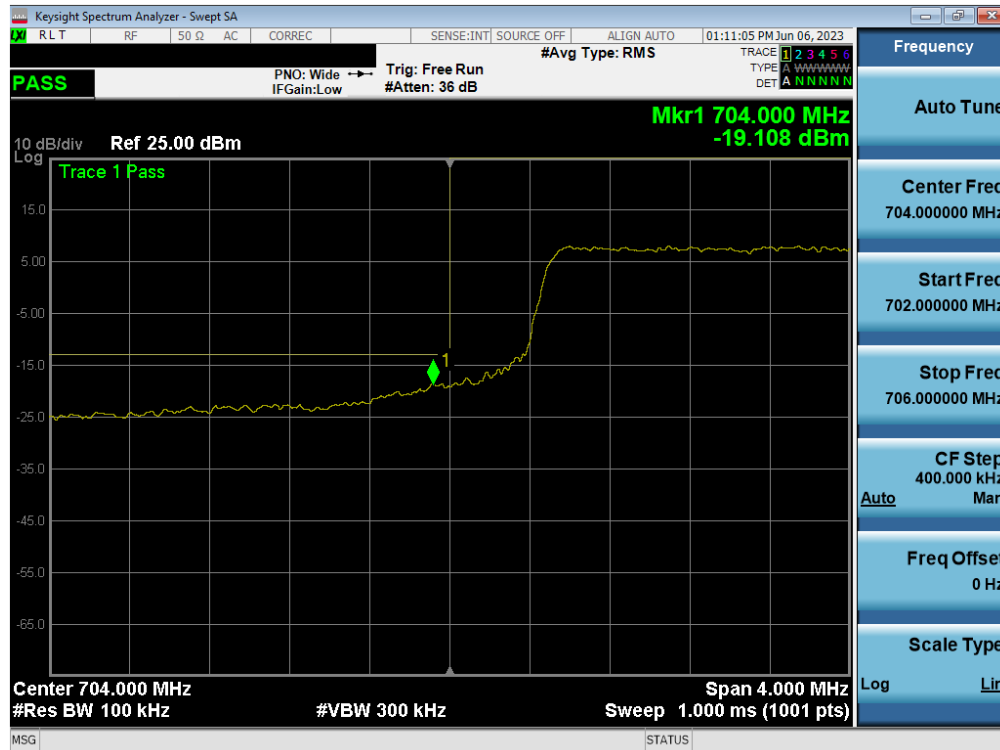
Plot 7-112. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB)



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

FCC ID: BCG-A2982	 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-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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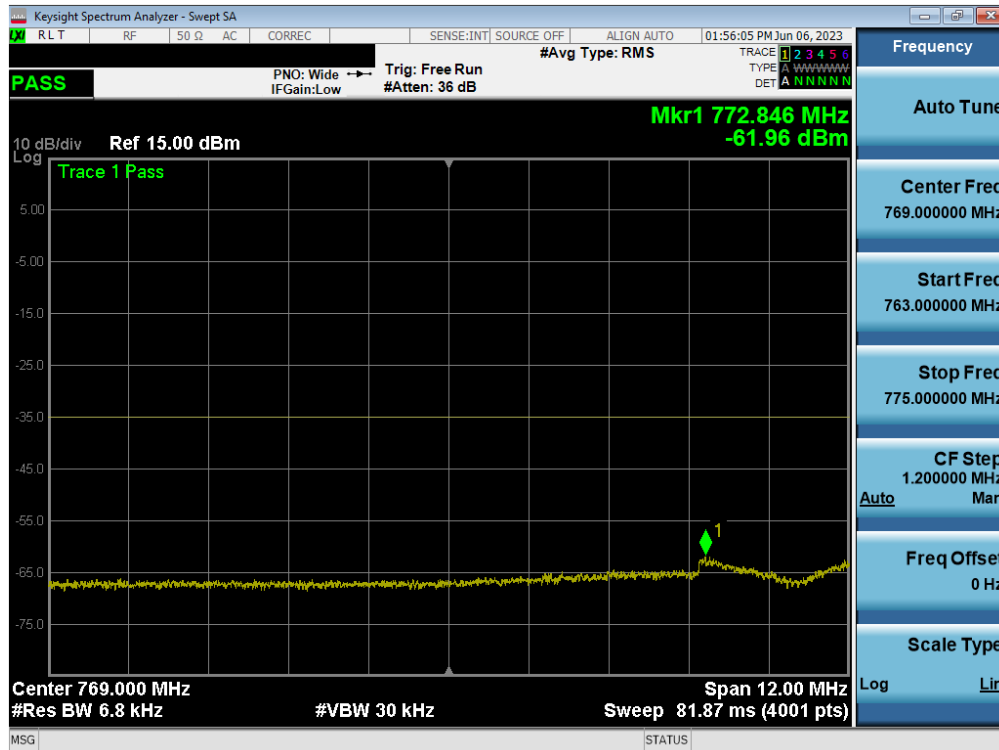
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LTE Band 13



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)

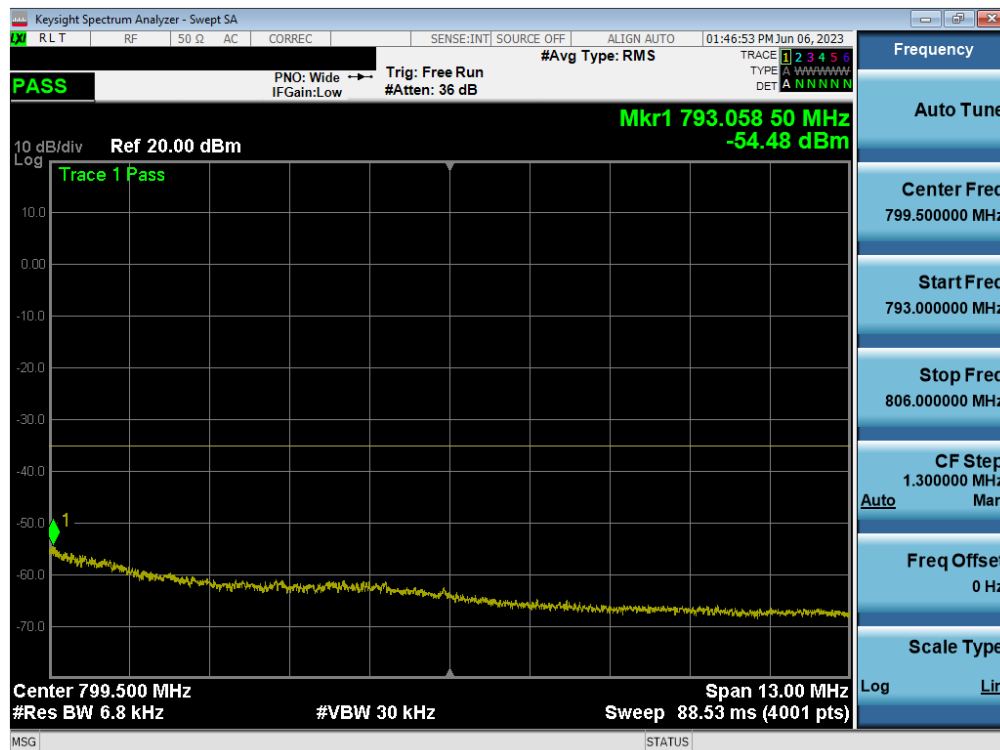
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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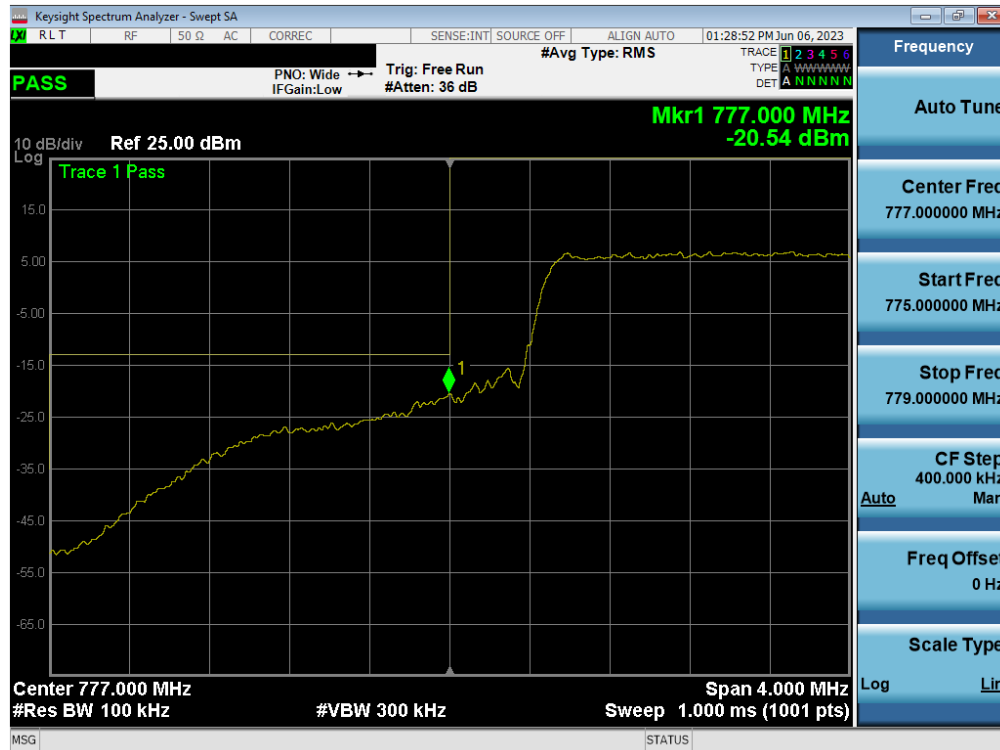


Plot 7-118. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB)



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

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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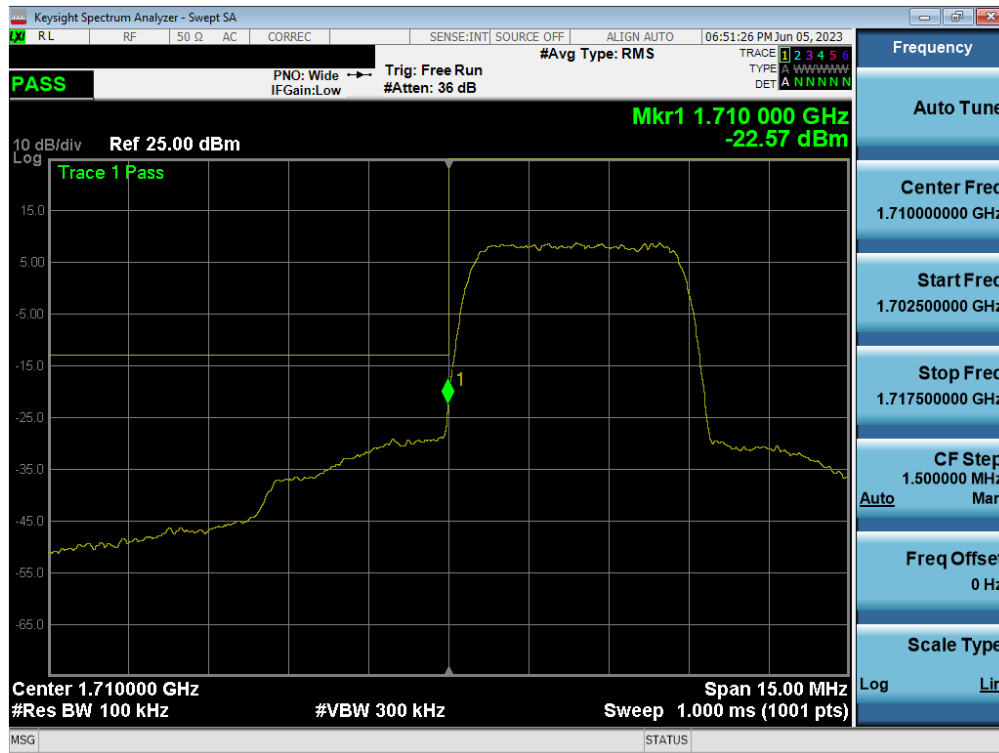
Plot 7-122. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB)



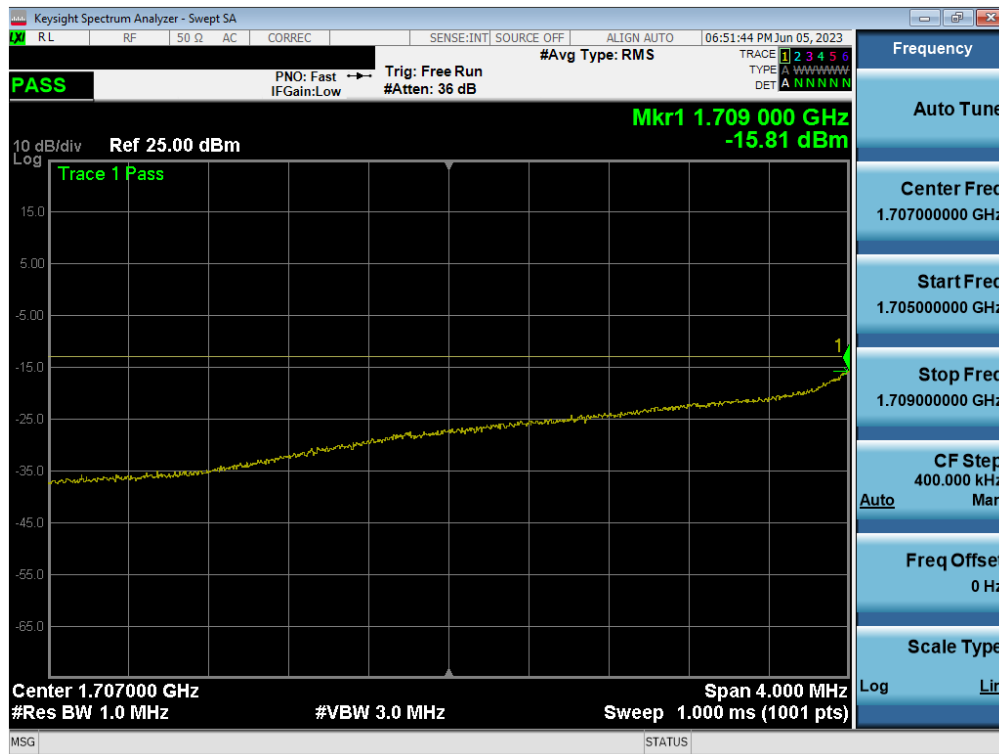
Plot 7-123. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2305020012-05.BCG	Test Dates: 06/08/2023 - 08/14/2023	EUT Type: Watch	Page 82 of 120

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Plot 7-124. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)

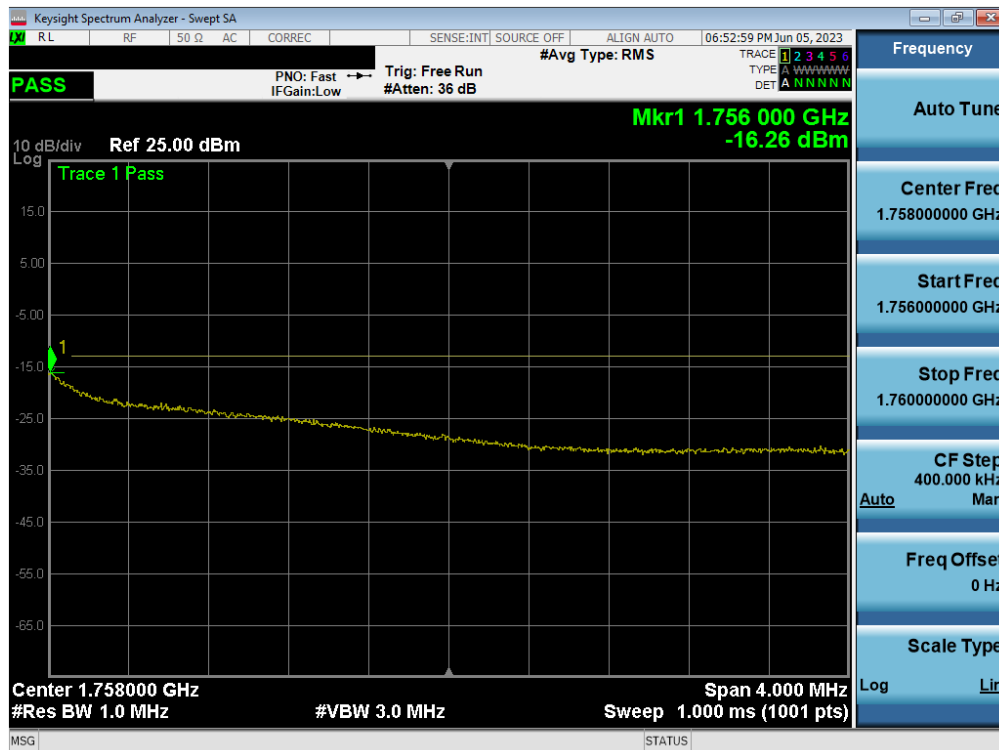


Plot 7-125. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)

FCC ID: BCG-A2982	 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)

FCC ID: BCG-A2982	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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. All ports were tested and only the worst case data were reported.

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.

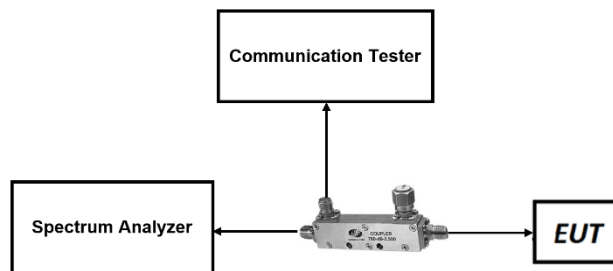


Figure 7-4. Test Instrument & Measurement Setup

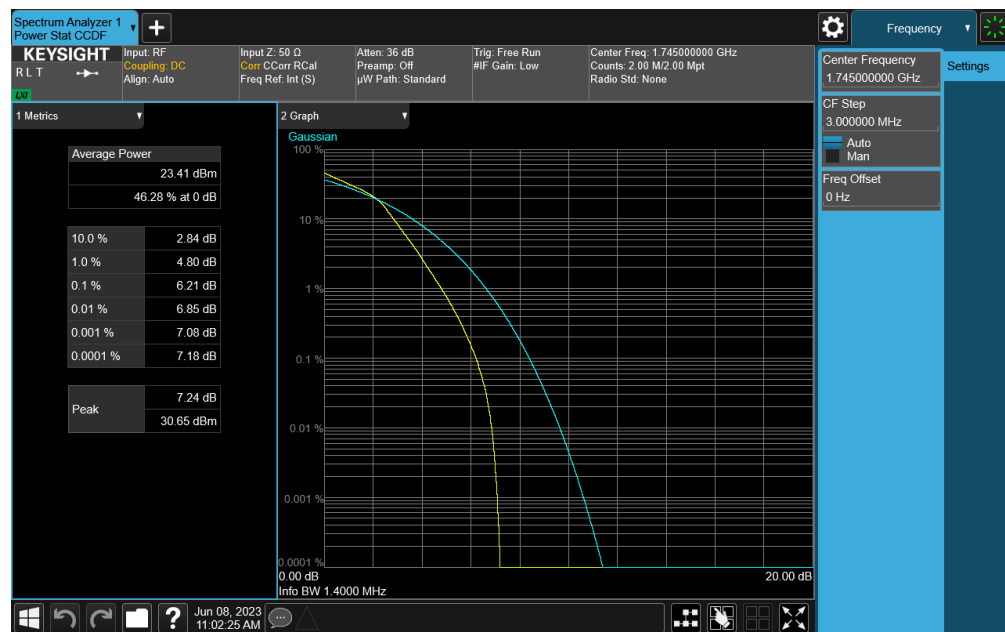
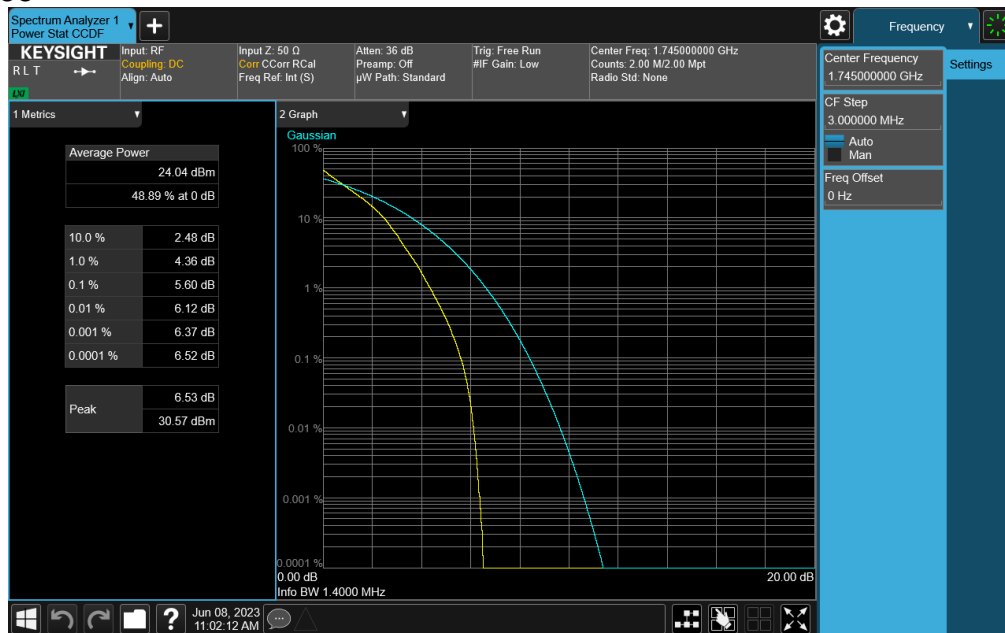
Test Notes

None.

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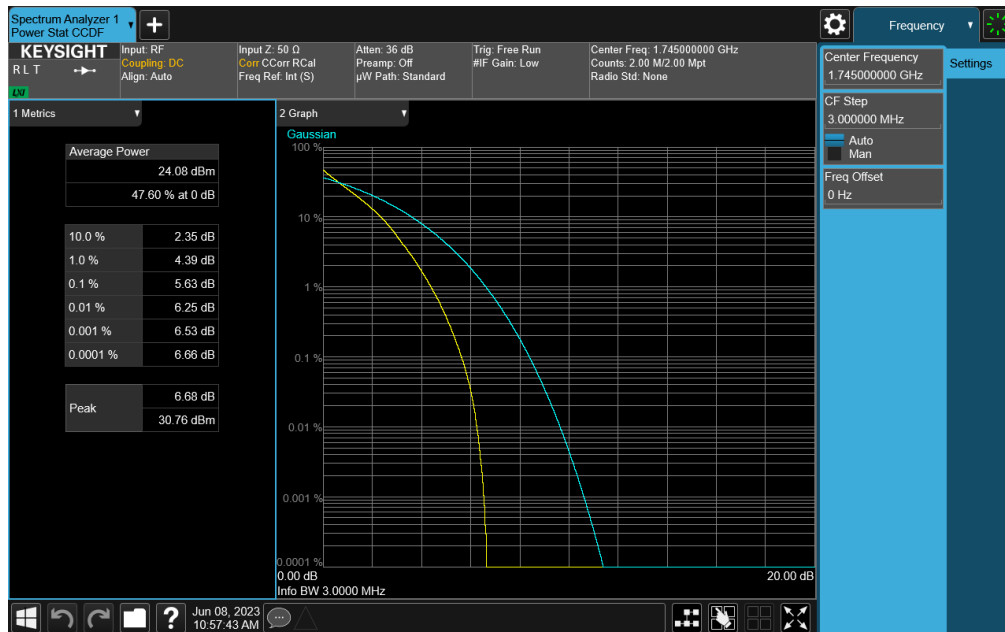
LTE Band 66



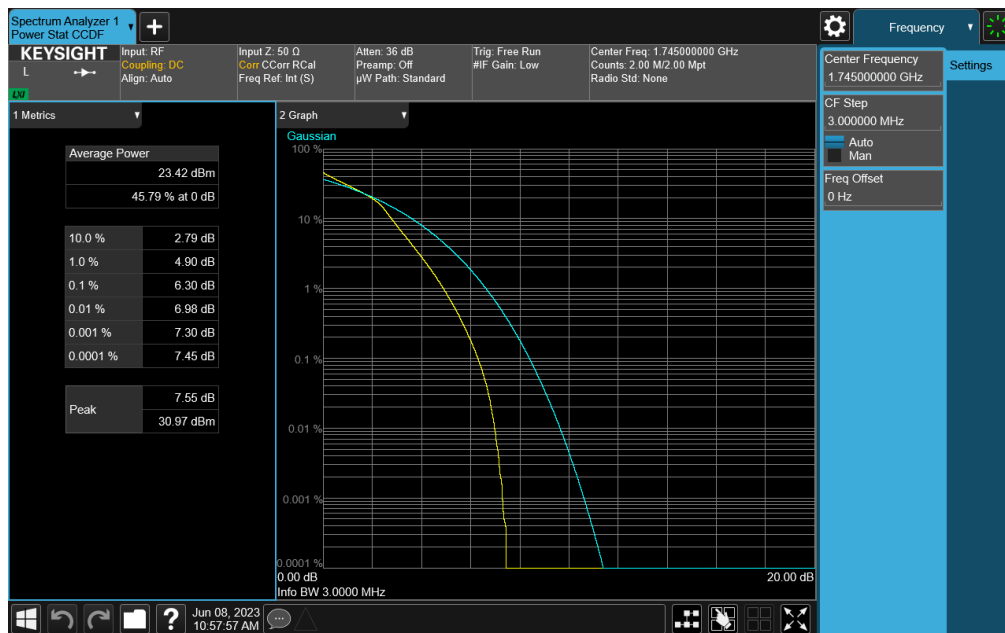
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-130. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB)

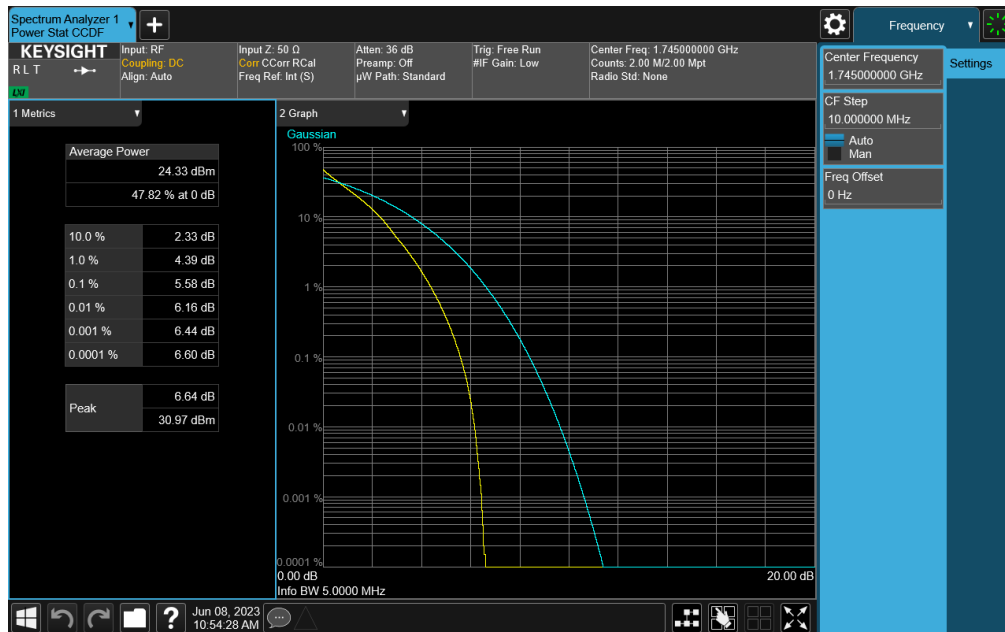


Plot 7-131. PAR Plot (LTE Band 66 - 3MHz 16-QAM - Full RB)

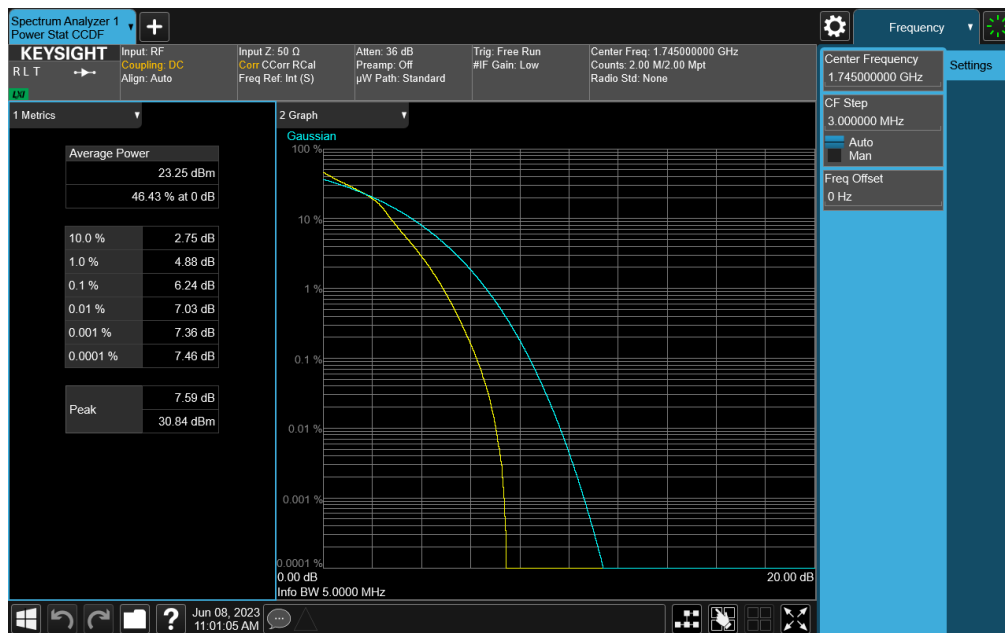
FCC ID: BCG-A2982	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-132. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB)

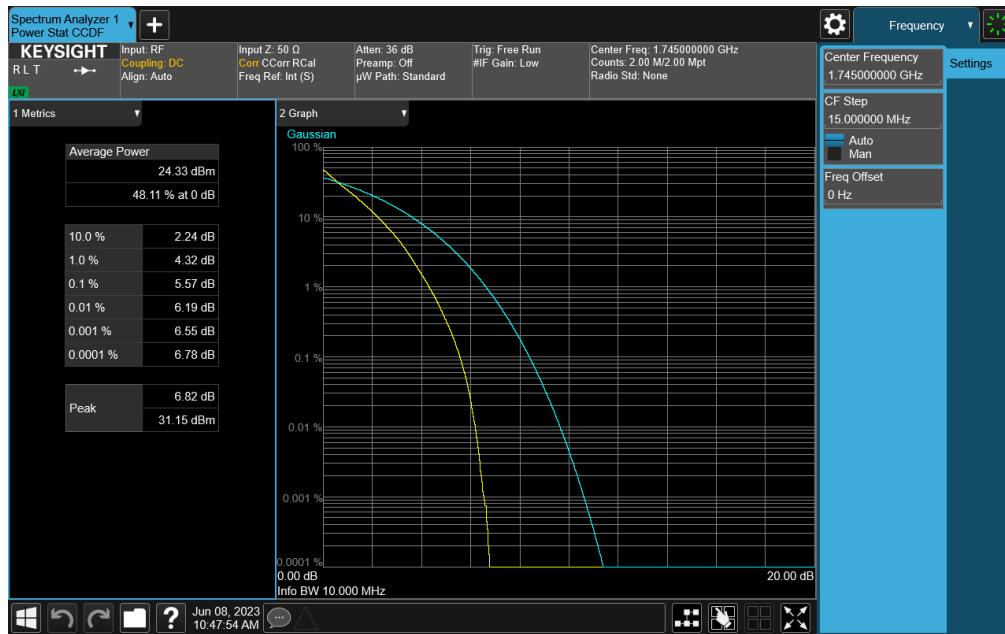


Plot 7-133. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB)

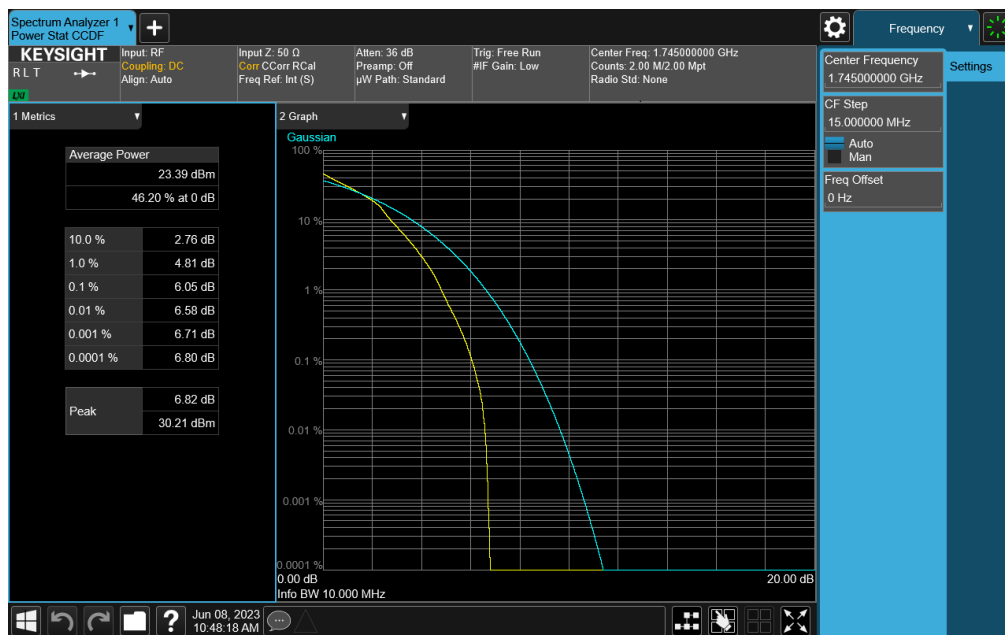
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-134. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB)

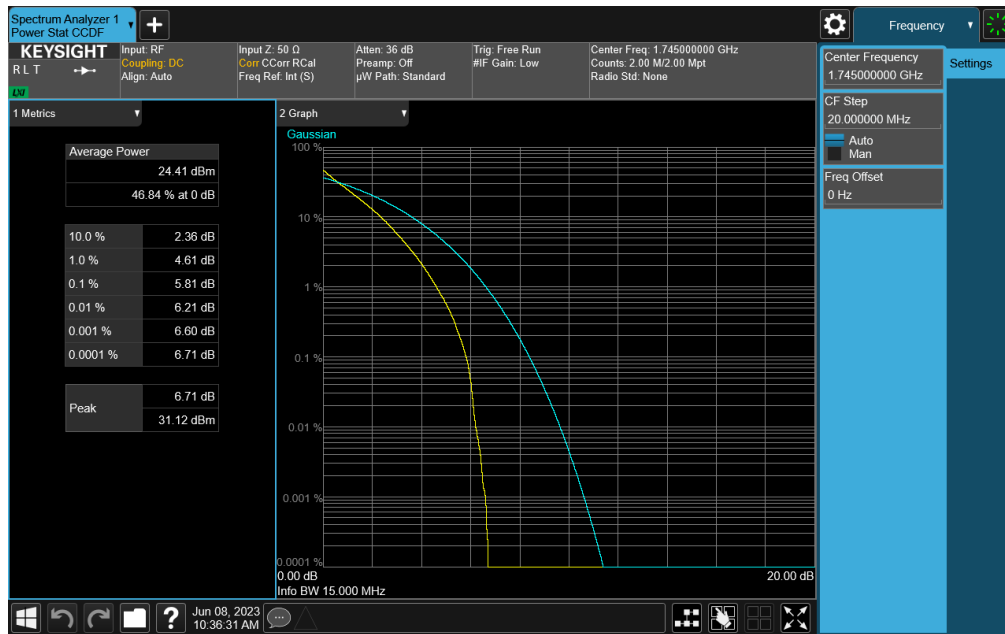


Plot 7-135. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB)

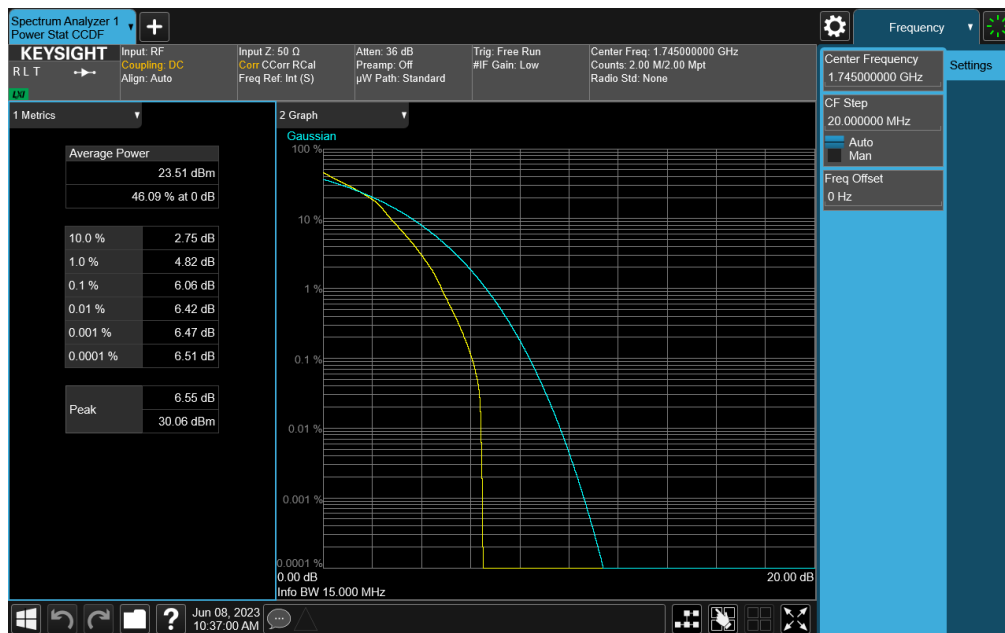
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-136. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB)

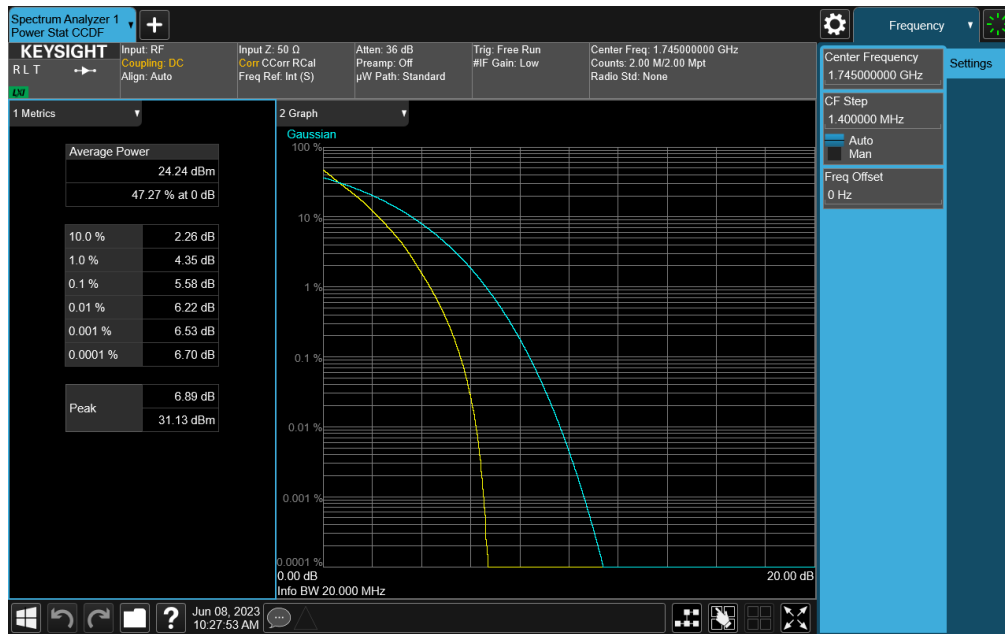


Plot 7-137. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB)

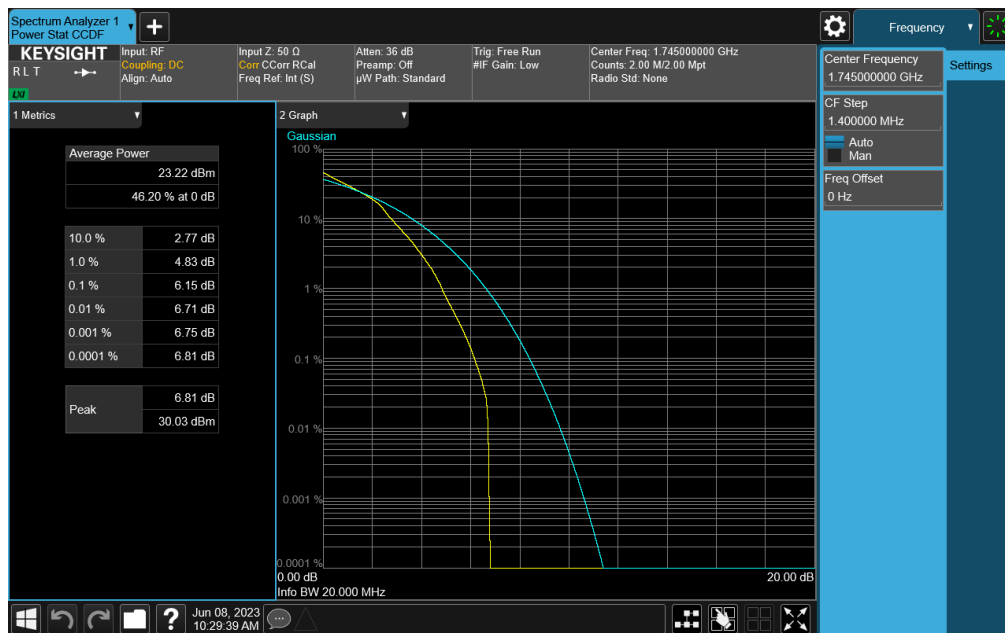
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-138. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB)



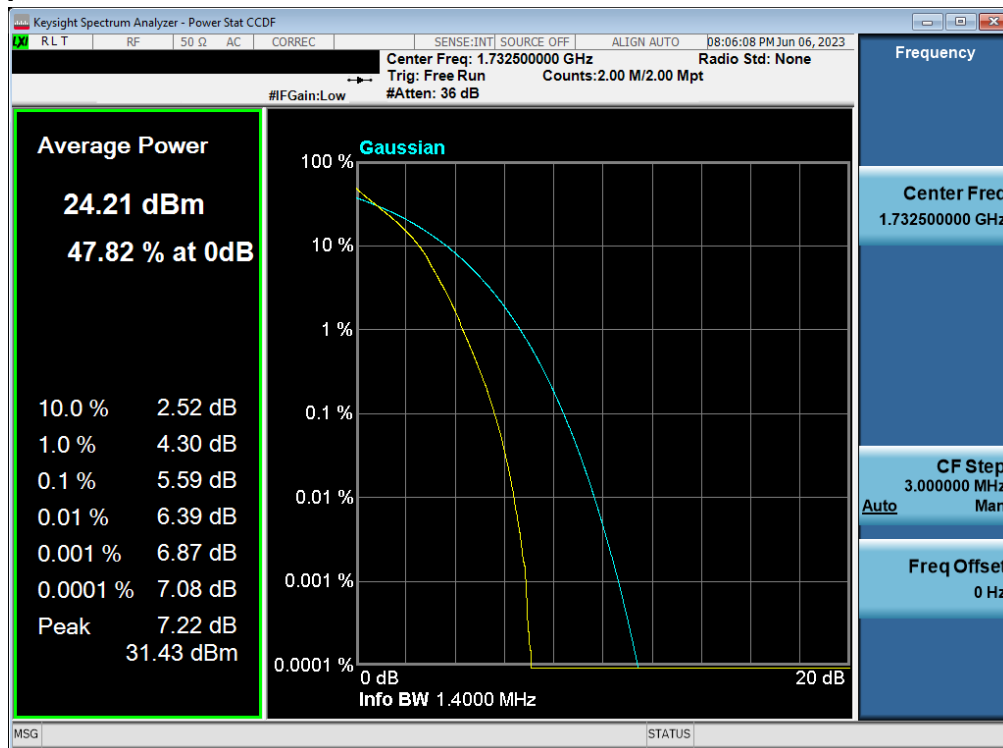
Plot 7-139. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A2982	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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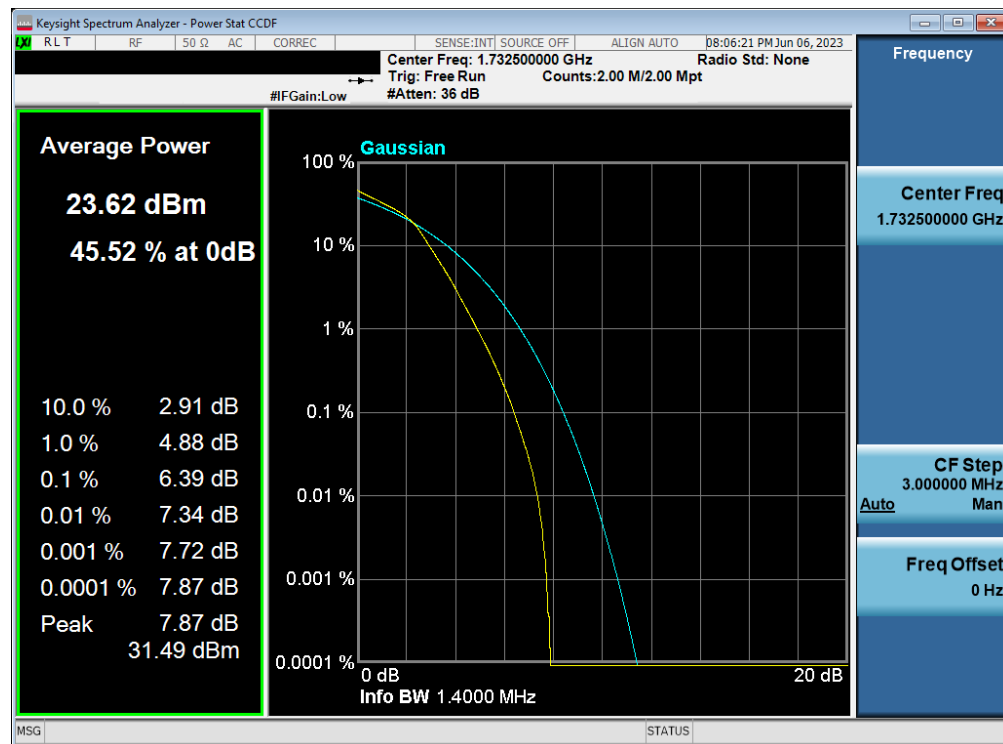
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LTE Band 4



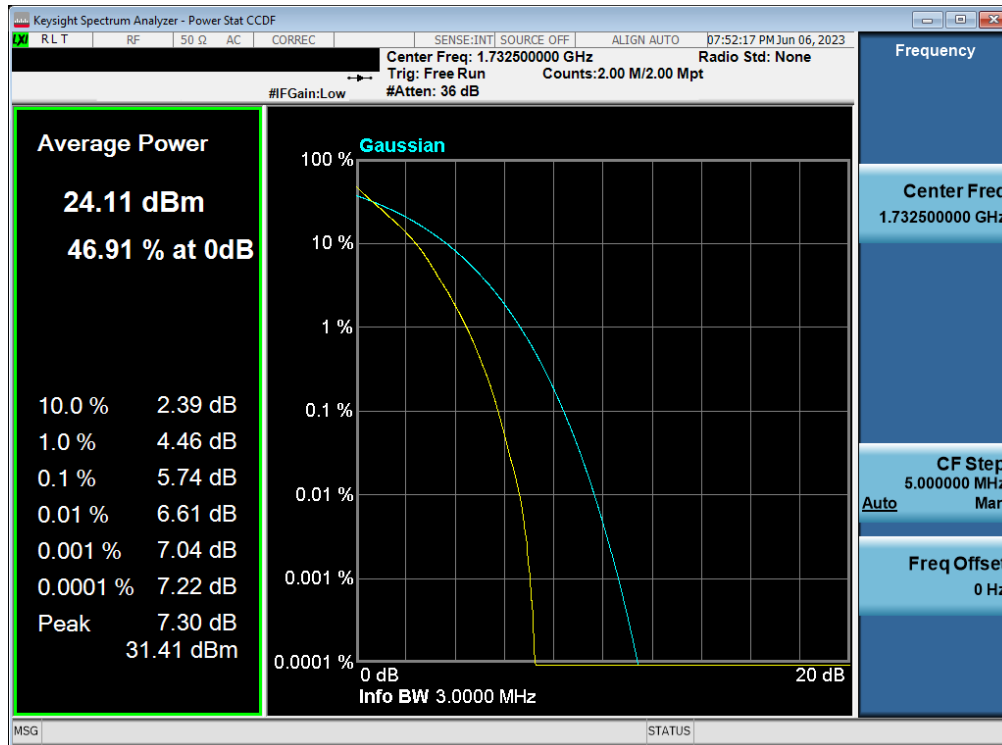
Plot 7-140. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



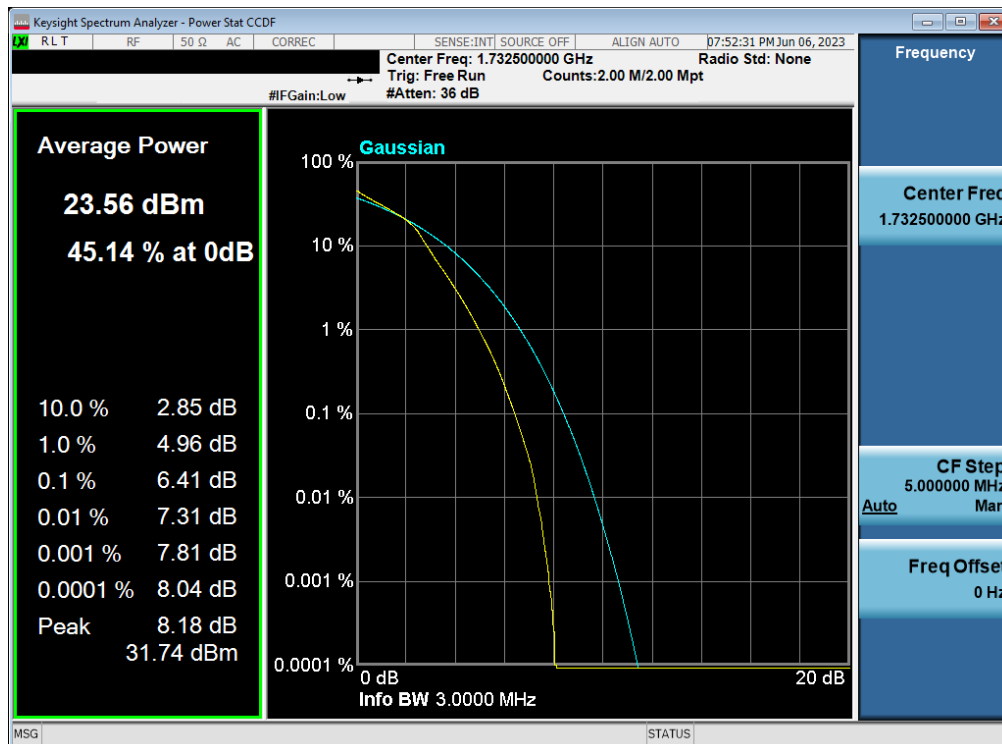
Plot 7-141. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

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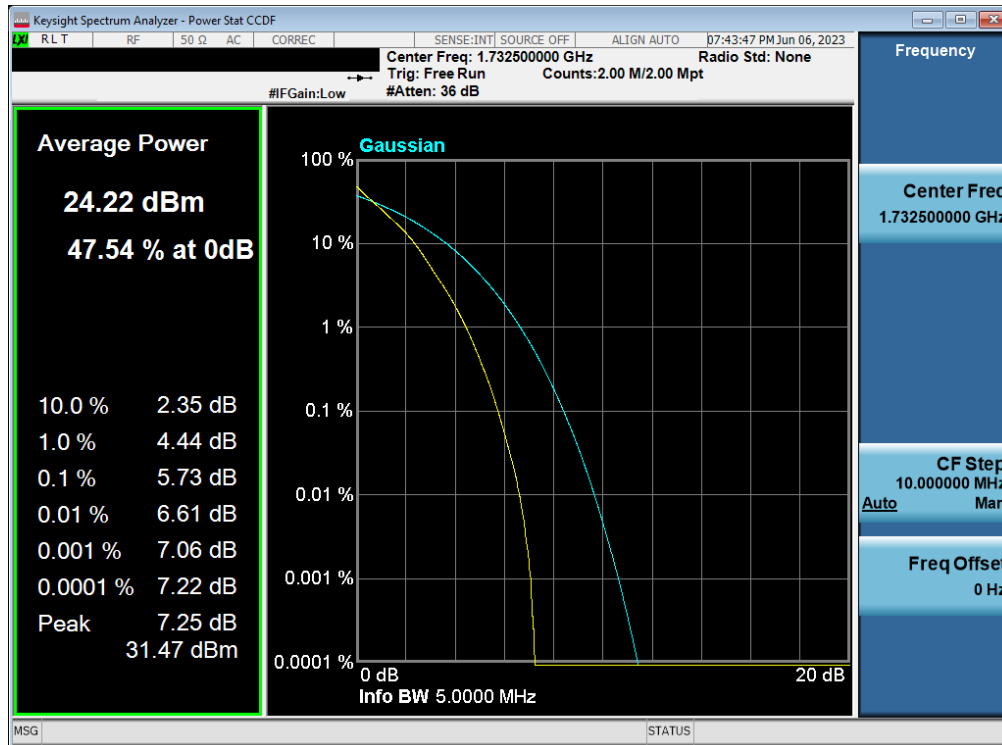
Plot 7-142. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)



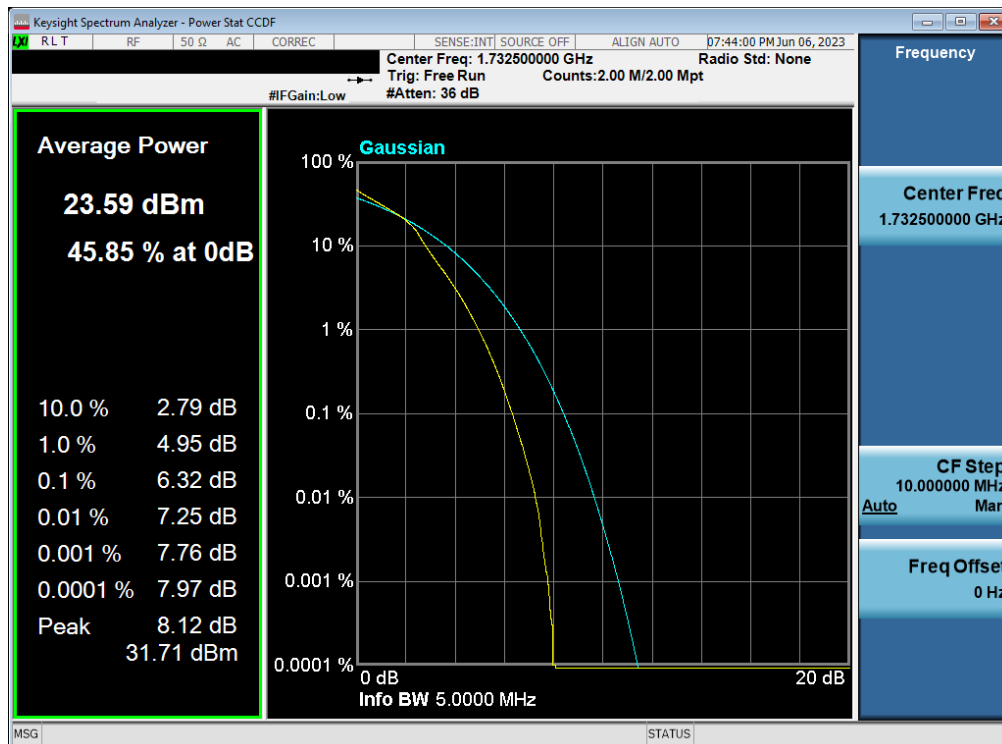
Plot 7-143. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A2982	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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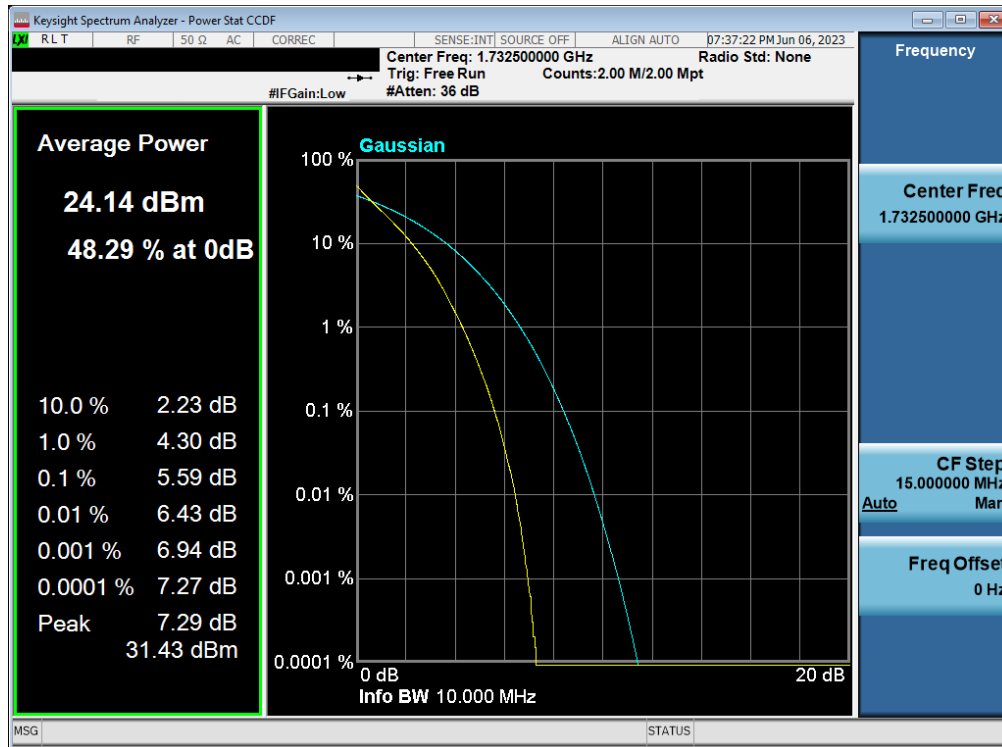
Plot 7-144. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)



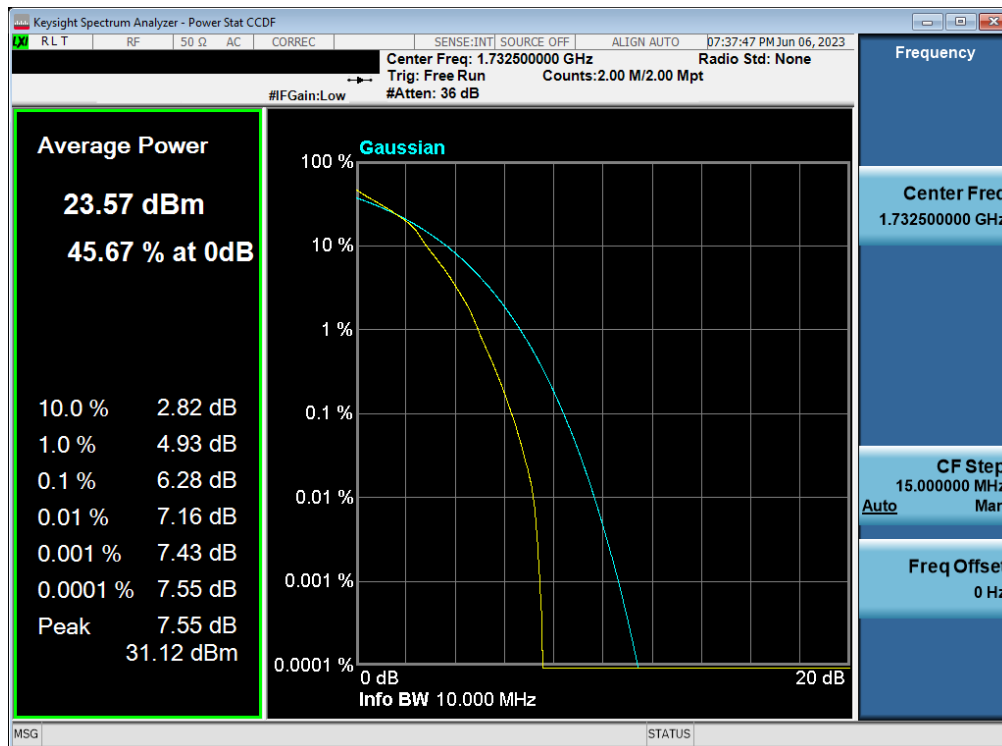
Plot 7-145. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A2982	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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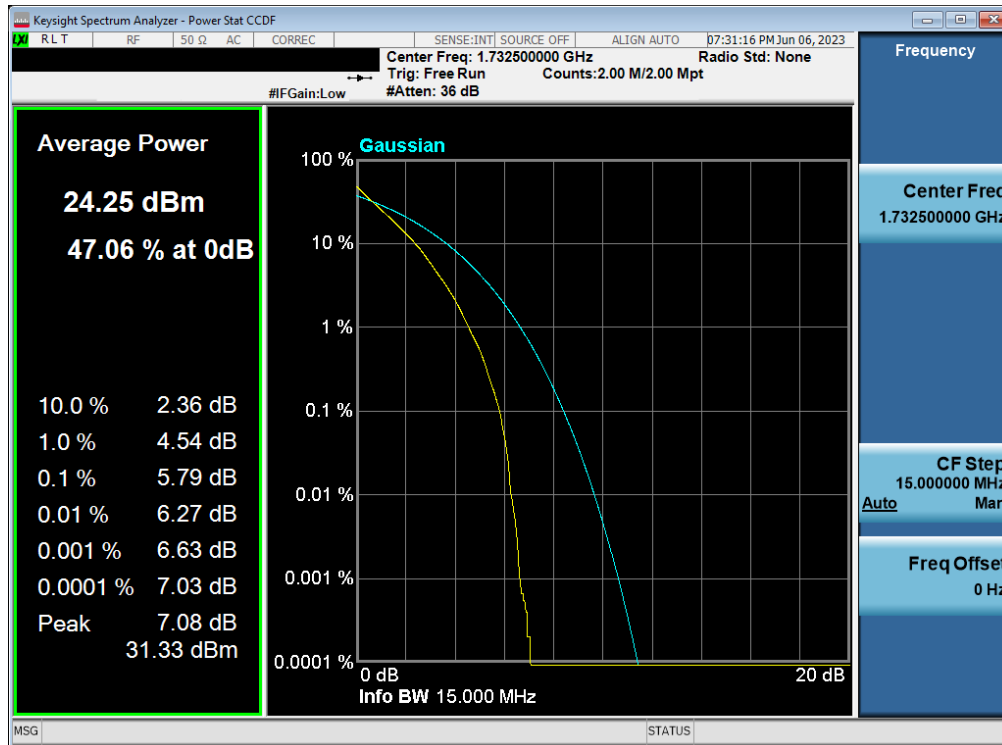
Plot 7-146. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)



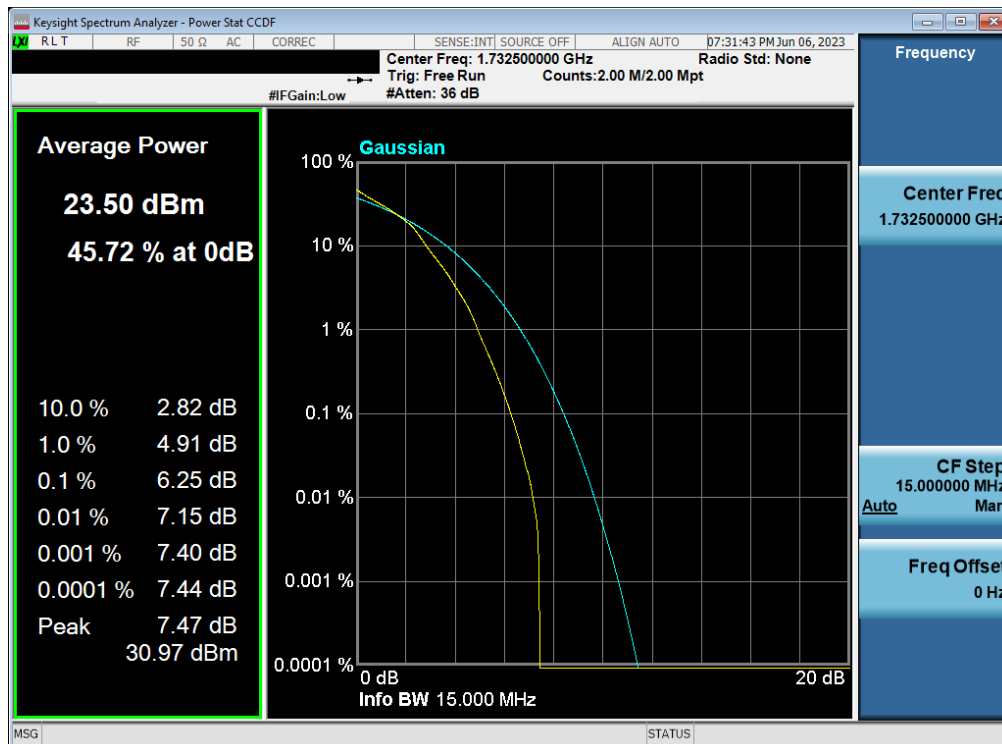
Plot 7-147. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A2982	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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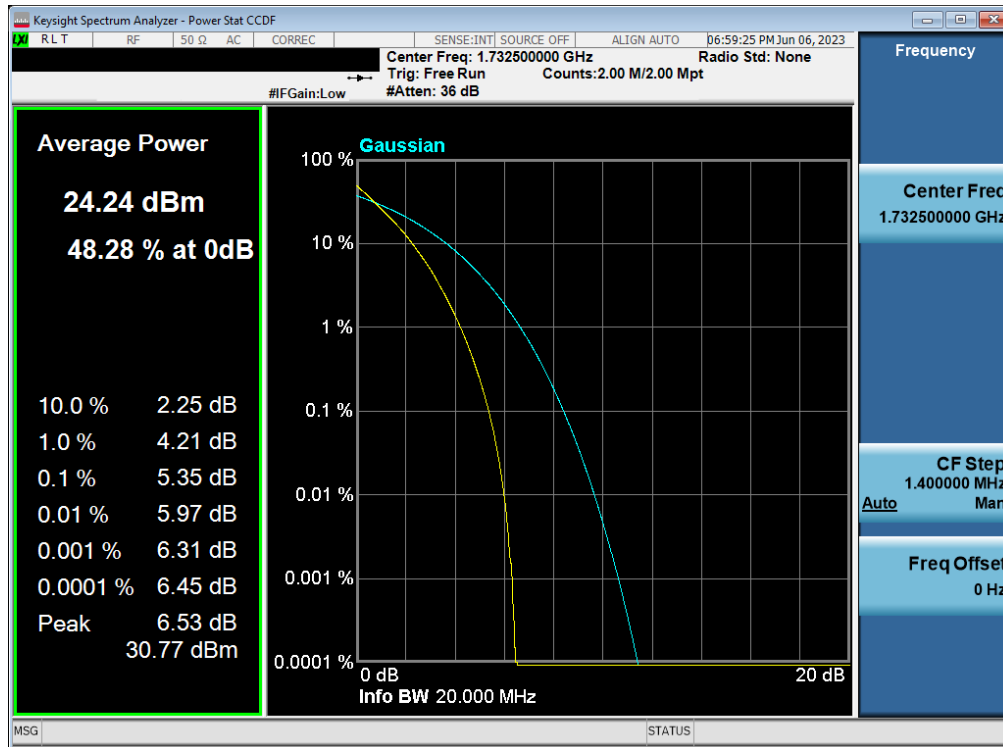
Plot 7-148. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)



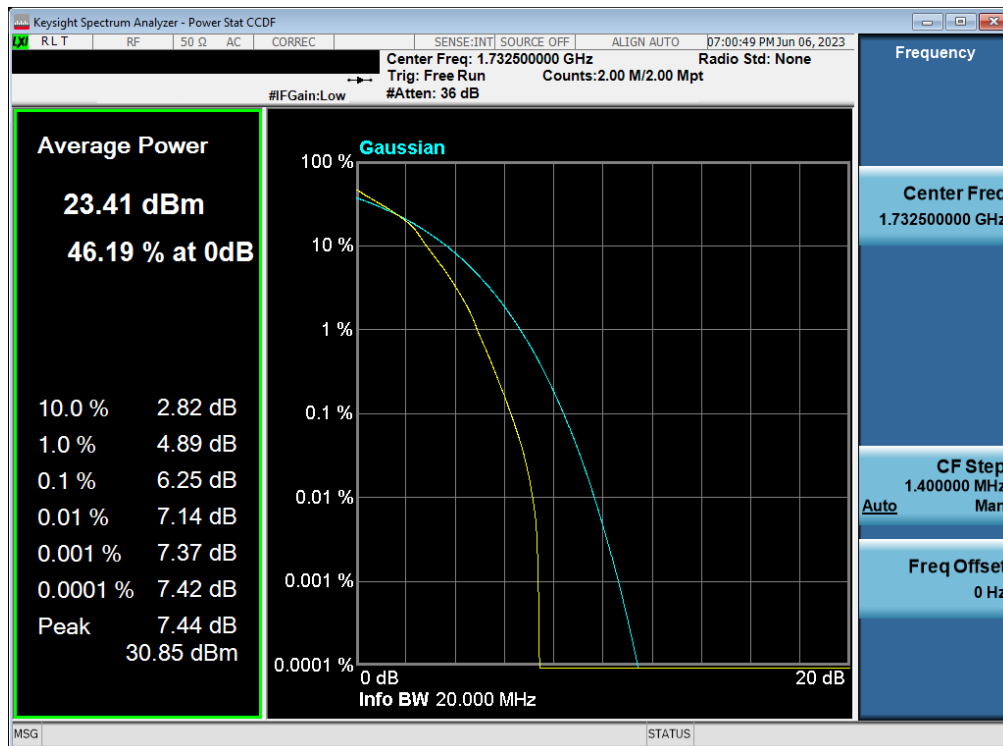
Plot 7-149. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A2982	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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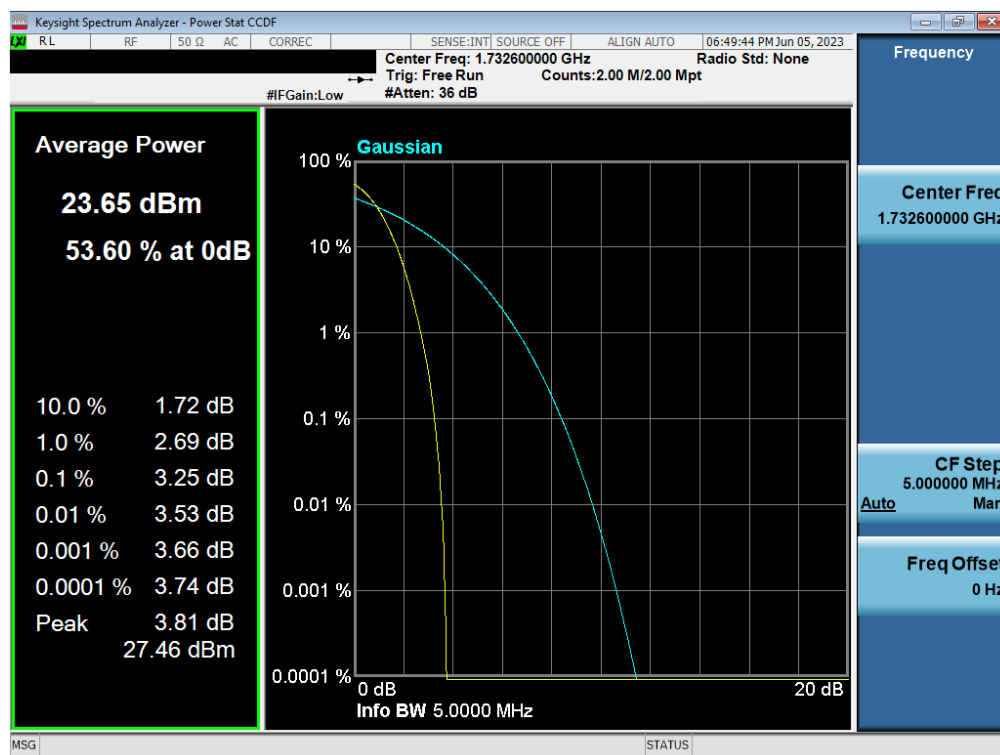
Plot 7-150. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)



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

FCC ID: BCG-A2982	element PART 27 MEASUREMENT REPORT		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.

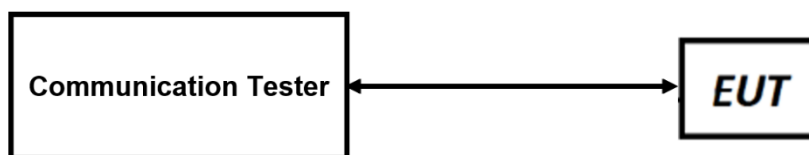


Figure 7-5. ERP/EIRP Measurement Setup

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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

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	-13.00	1 / 3	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 3	24.12	11.12	12.942	30.00	-18.88
		1779.3	-13.00	1 / 3	24.46	11.46	13.996	30.00	-18.54
	16-QAM	1779.3	-13.00	1 / 3	24.01	11.01	12.618	30.00	-18.99
3 MHz	QPSK	1711.5	-13.00	1 / 7	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 0	24.13	11.13	12.972	30.00	-18.87
		1778.5	-13.00	1 / 7	24.25	11.25	13.335	30.00	-18.75
	16-QAM	1711.5	-13.00	1 / 7	23.98	10.98	12.531	30.00	-19.02
5 MHz	QPSK	1712.5	-13.00	1 / 12	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 12	24.30	11.30	13.490	30.00	-18.70
		1777.5	-13.00	1 / 24	24.21	11.21	13.213	30.00	-18.79
	16-QAM	1745.0	-13.00	1 / 12	23.94	10.94	12.417	30.00	-19.06
10 MHz	QPSK	1715.0	-13.00	1 / 25	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 25	24.26	11.26	13.366	30.00	-18.74
		1775.0	-13.00	1 / 25	24.30	11.30	13.490	30.00	-18.70
	16-QAM	1745.0	-13.00	1 / 25	24.03	11.03	12.677	30.00	-18.97
15 MHz	QPSK	1717.5	-13.00	1 / 37	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 37	24.31	11.31	13.521	30.00	-18.69
		1772.5	-13.00	1 / 37	24.26	11.26	13.366	30.00	-18.74
	16-QAM	1745.0	-13.00	1 / 37	24.09	11.09	12.853	30.00	-18.91
20 MHz	QPSK	1720.0	-13.00	1 / 50	24.50	11.50	14.125	30.00	-18.50
		1745.0	-13.00	1 / 0	24.24	11.24	13.305	30.00	-18.76
		1770.0	-13.00	1 / 99	24.44	11.44	13.932	30.00	-18.56
	16-QAM	1720.0	-13.00	1 / 99	23.99	10.99	12.560	30.00	-19.01

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

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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	-13.00	1 / 3	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 3	24.12	11.12	12.942	30.00	-18.88
		1754.3	-13.00	1 / 5	24.08	11.08	12.823	30.00	-18.92
	16-QAM	1732.5	-13.00	1 / 0	23.86	10.86	12.190	30.00	-19.14
3 MHz	QPSK	1711.5	-13.00	1 / 7	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 0	24.28	11.28	13.428	30.00	-18.72
		1753.5	-13.00	1 / 0	24.46	11.46	13.996	30.00	-18.54
	16-QAM	1732.5	-13.00	1 / 7	23.90	10.90	12.303	30.00	-19.10
5 MHz	QPSK	1712.5	-13.00	1 / 12	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 24	24.25	11.25	13.335	30.00	-18.75
		1752.5	-13.00	1 / 0	24.49	11.49	14.093	30.00	-18.51
	16-QAM	1732.5	-13.00	1 / 12	23.90	10.90	12.303	30.00	-19.10
10 MHz	QPSK	1715.0	-13.00	1 / 25	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 25	24.27	11.27	13.397	30.00	-18.73
		1750.0	-13.00	1 / 25	24.14	11.14	13.002	30.00	-18.86
	16-QAM	1750.0	-13.00	1 / 0	23.95	10.95	12.445	30.00	-19.05
15 MHz	QPSK	1717.5	-13.00	1 / 37	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 74	24.38	11.38	13.740	30.00	-18.62
		1747.5	-13.00	1 / 0	24.09	11.09	12.853	30.00	-18.91
	16-QAM	1732.5	-13.00	1 / 37	23.86	10.86	12.190	30.00	-19.14
20 MHz	QPSK	1720.0	-13.00	1 / 50	24.50	11.50	14.125	30.00	-18.50
		1732.5	-13.00	1 / 50	24.22	11.22	13.243	30.00	-18.78
		1745.0	-13.00	1 / 99	24.11	11.11	12.912	30.00	-18.89
	16-QAM	1745.0	-13.00	1 / 99	23.83	10.83	12.106	30.00	-19.17

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

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.66	-13.00	10.66	11.641	30.00	-19.34
1732.60	WCDMA1700	23.68	-13.00	10.68	11.695	30.00	-19.32
1752.60	WCDMA1700	23.66	-13.00	10.66	11.641	30.00	-19.34

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

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7.6.2 Antenna BCM – ERP/EIRP

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	-35.00	1 / 3	25.29	-11.86	0.065	34.77	-46.63	-9.71	0.107	36.99	-46.70
		707.5	-35.00	1 / 5	25.21	-11.94	0.064	34.77	-46.71	-9.79	0.105	36.99	-46.78
		715.3	-35.00	1 / 5	25.24	-11.91	0.064	34.77	-46.68	-9.76	0.106	36.99	-46.75
	16-QAM	699.7	-35.00	1 / 0	24.72	-12.43	0.057	34.77	-47.20	-10.28	0.094	36.99	-47.27
3 MHz	QPSK	700.5	-35.00	1 / 0	25.29	-11.86	0.065	34.77	-46.63	-9.71	0.107	36.99	-46.70
		707.5	-35.00	1 / 14	25.19	-11.96	0.064	34.77	-46.73	-9.81	0.104	36.99	-46.80
		714.5	-35.00	1 / 0	25.10	-12.05	0.062	34.77	-46.82	-9.90	0.102	36.99	-46.89
	16-QAM	714.5	-35.00	1 / 7	24.67	-12.48	0.056	34.77	-47.25	-10.33	0.093	36.99	-47.32
5 MHz	QPSK	701.5	-35.00	1 / 12	25.50	-11.65	0.068	34.77	-46.42	-9.50	0.112	36.99	-46.49
		707.5	-35.00	1 / 24	25.37	-11.78	0.066	34.77	-46.55	-9.63	0.109	36.99	-46.62
		713.5	-35.00	1 / 12	25.08	-12.07	0.062	34.77	-46.84	-9.92	0.102	36.99	-46.91
	16-QAM	701.5	-35.00	1 / 12	24.76	-12.39	0.058	34.77	-47.16	-10.24	0.095	36.99	-47.23
10 MHz	QPSK	704.0	-35.00	1 / 25	25.33	-11.82	0.066	34.77	-46.59	-9.67	0.108	36.99	-46.66
		707.5	-35.00	1 / 49	25.38	-11.77	0.067	34.77	-46.54	-9.62	0.109	36.99	-46.61
		711.0	-35.00	1 / 0	25.15	-12.00	0.063	34.77	-46.77	-9.85	0.104	36.99	-46.84
	16-QAM	704.0	-35.00	1 / 25	24.75	-12.40	0.058	34.77	-47.17	-10.25	0.094	36.99	-47.24

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

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	-35.00	1 / 12	25.36	-11.79	0.066	34.77	-46.56	-9.64	0.109	36.99	-46.63
		710.0	-35.00	1 / 24	25.46	-11.69	0.068	34.77	-46.46	-9.54	0.111	36.99	-46.53
		713.5	-35.00	1 / 12	25.13	-12.02	0.063	34.77	-46.79	-9.87	0.103	36.99	-46.86
	16-QAM	710.0	-35.00	1 / 24	24.72	-12.43	0.057	34.77	-47.20	-10.28	0.094	36.99	-47.27
10 MHz	QPSK	709.0	-35.00	1 / 49	25.29	-11.86	0.065	34.77	-46.63	-9.71	0.107	36.99	-46.70
		710.0	-35.00	1 / 0	25.47	-11.68	0.068	34.77	-46.45	-9.53	0.111	36.99	-46.52
		711.0	-35.00	1 / 0	25.19	-11.96	0.064	34.77	-46.73	-9.81	0.104	36.99	-46.80
	16-QAM	710.0	-35.00	1 / 0	24.71	-12.44	0.057	34.77	-47.21	-10.29	0.094	36.99	-47.28

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

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	-31.30	1 / 0	25.49	-7.96	0.160	34.77	-42.73	-5.81	0.262	36.99	-42.80
		782.0	-31.30	1 / 12	25.50	-7.95	0.160	34.77	-42.72	-5.80	0.263	36.99	-42.79
		784.5	-31.30	1 / 12	25.10	-8.35	0.146	34.77	-43.12	-6.20	0.240	36.99	-43.19
	16-QAM	782.0	-31.30	1 / 12	24.94	-8.51	0.141	34.77	-43.28	-6.36	0.231	36.99	-43.35
10 MHz	QPSK	782.0	-31.30	1 / 25	25.26	-8.19	0.152	34.77	-42.96	-6.04	0.249	36.99	-43.03
	16-QAM	782.0	-31.30	1 / 0	24.82	-8.63	0.137	34.77	-43.40	-6.48	0.225	36.99	-43.47

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.

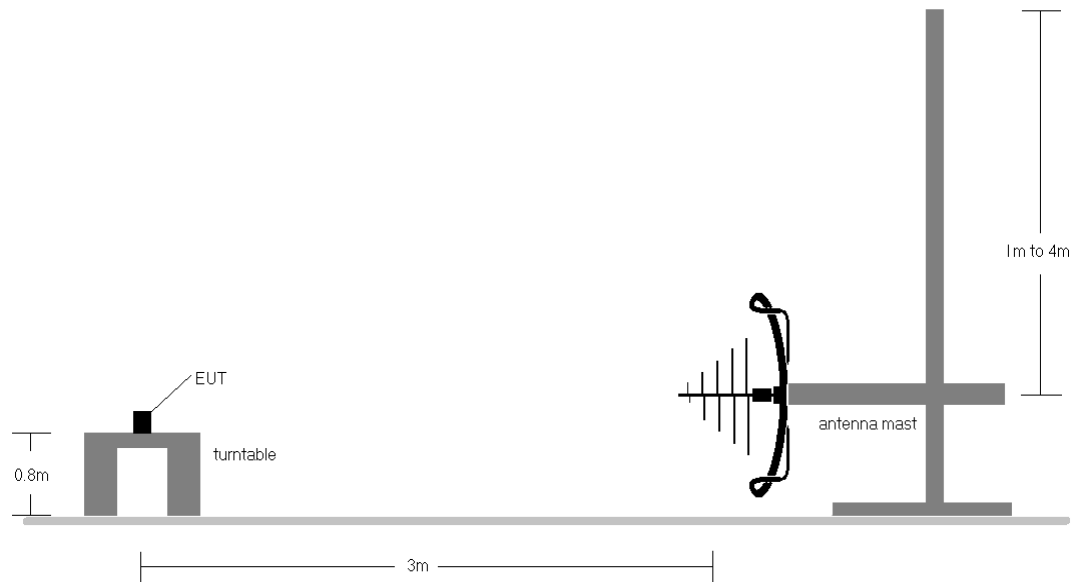


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

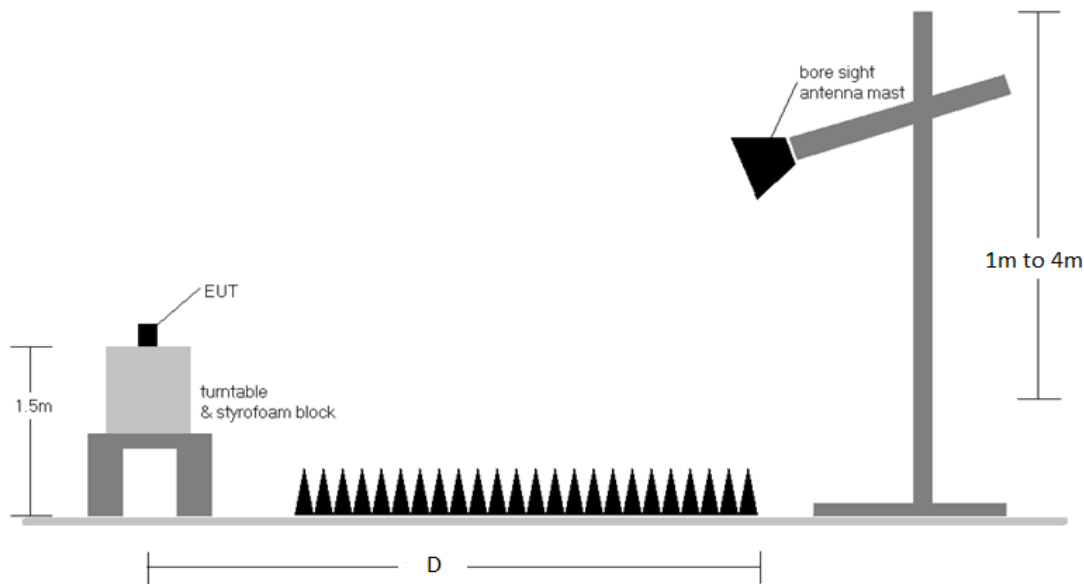


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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Test Notes

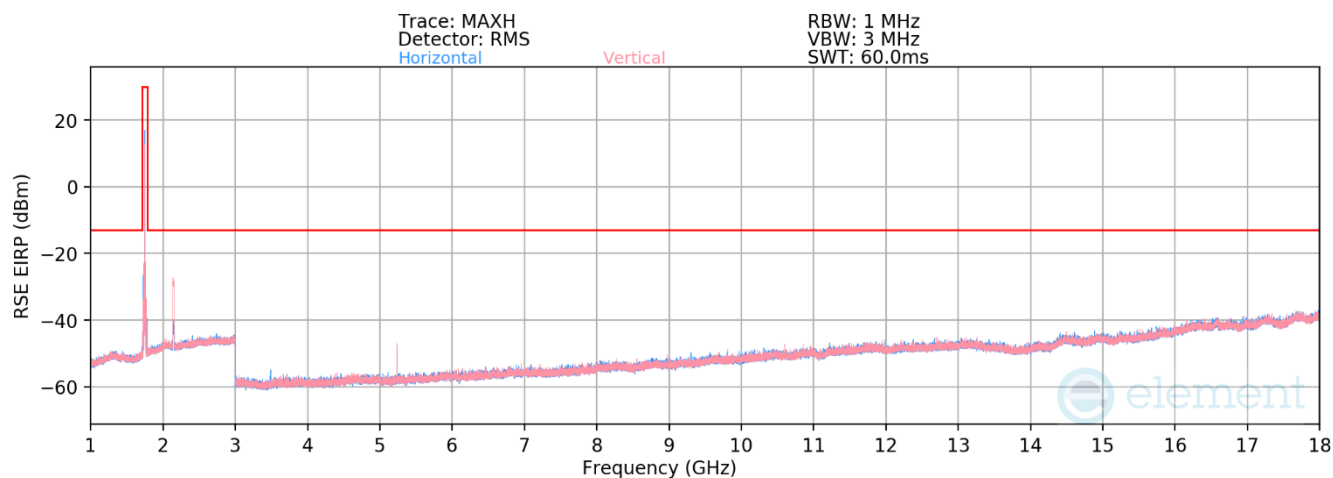
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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.
7. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".

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7.7.1 Antenna FCM – Radiated Spurious Emission Measurement

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	H	117	19	-78.15	2.54	31.39	-63.86	-13.00	-50.86
5160.0	H	117	100	-72.08	5.38	40.30	-54.96	-13.00	-41.96
6880.0	H	-	-	-82.26	8.58	33.32	-61.94	-13.00	-48.94
8600.0	H	-	-	-80.67	8.81	35.14	-60.12	-13.00	-47.12

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	H	109	199	-77.98	2.60	31.62	-63.64	-13.00	-50.64
5235.0	H	326	236	-70.57	5.48	41.91	-53.35	-13.00	-40.35
6980.0	H	-	-	-82.05	8.40	33.35	-61.91	-13.00	-48.91
8725.0	H	-	-	-80.78	9.23	35.45	-59.80	-13.00	-46.80

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	H	109	26	-77.35	2.85	32.50	-62.76	-13.00	-49.76
5310.0	H	109	104	-80.23	5.96	32.73	-62.53	-13.00	-49.53
7080.0	H	-	-	-82.02	8.40	33.38	-61.88	-13.00	-48.88
8850.0	H	-	-	-80.69	9.24	35.55	-59.70	-13.00	-46.70
10620.0	H	-	-	-80.16	11.39	38.23	-57.03	-13.00	-44.03

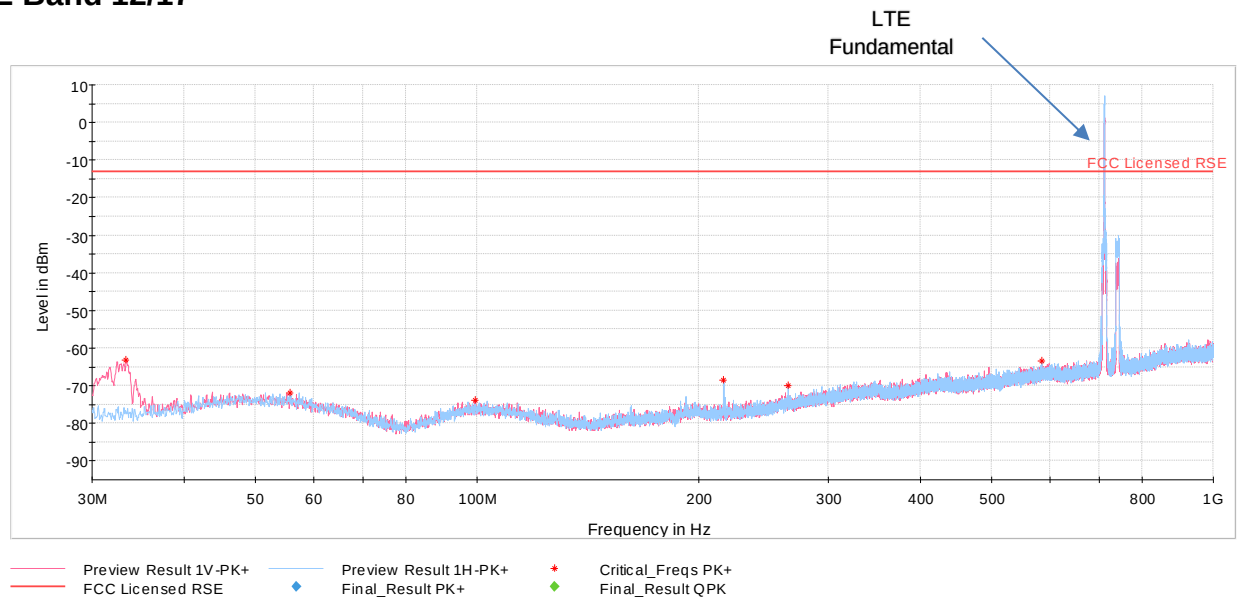
Table 7-10. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)

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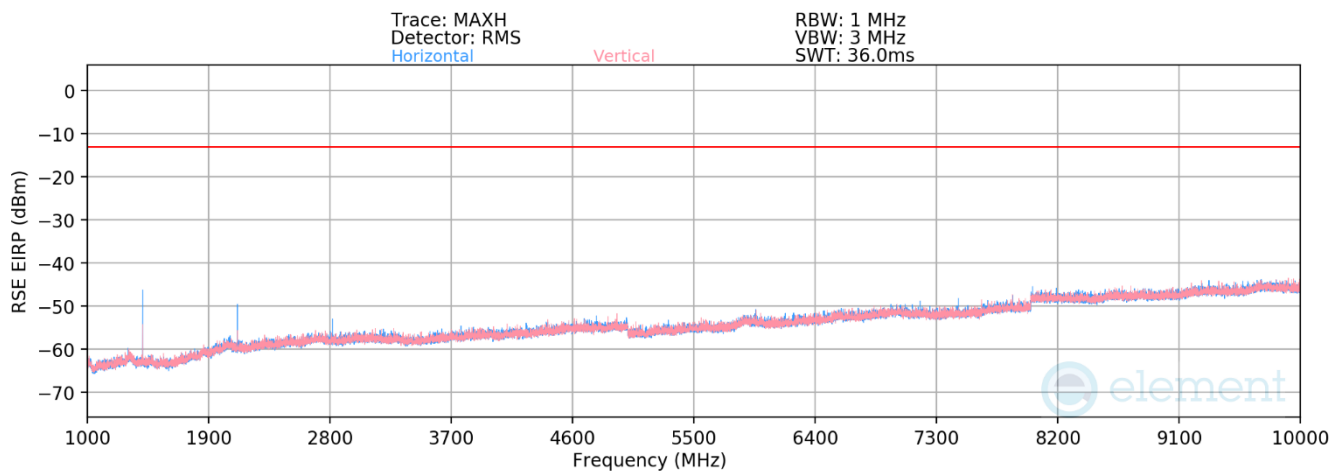
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LTE Band 12/17



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)

FCC ID: BCG-A2982		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	H	109	294	-64.66	-3.65	38.69	-56.57	-13.00	-43.57
2112.0	H	384	4	-70.96	-0.38	35.66	-59.60	-13.00	-46.60
2816.0	H	-	-	-77.05	1.42	31.37	-63.88	-13.00	-50.88
3520.0	H	-	-	-78.76	2.57	30.81	-64.45	-13.00	-51.45

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	H	102	291	-66.54	-3.65	36.81	-58.45	-13.00	-45.45
2122.5	H	224	256	-71.82	-0.42	34.76	-60.50	-13.00	-47.50
2830.0	H	-	-	-78.34	1.34	30.00	-65.26	-13.00	-52.26
3537.5	H	-	-	-78.86	2.61	30.75	-64.50	-13.00	-51.50

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

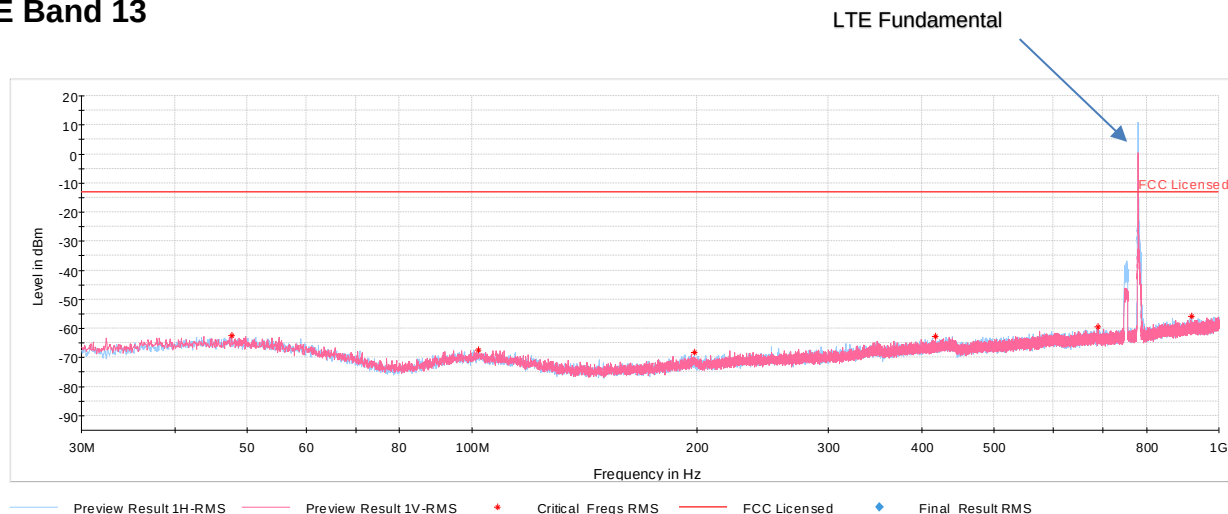
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	236	296	-66.71	-3.70	36.59	-58.67	-13.00	-45.67
2133.0	H	109	16	-71.78	-0.42	34.80	-60.46	-13.00	-47.46
2844.0	H	278	344	-75.88	1.30	32.42	-62.84	-13.00	-49.84
3555.0	H	-	-	-78.65	2.69	31.04	-64.22	-13.00	-51.22
4266.0	H	-	-	-79.49	3.46	30.97	-64.29	-13.00	-51.29

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

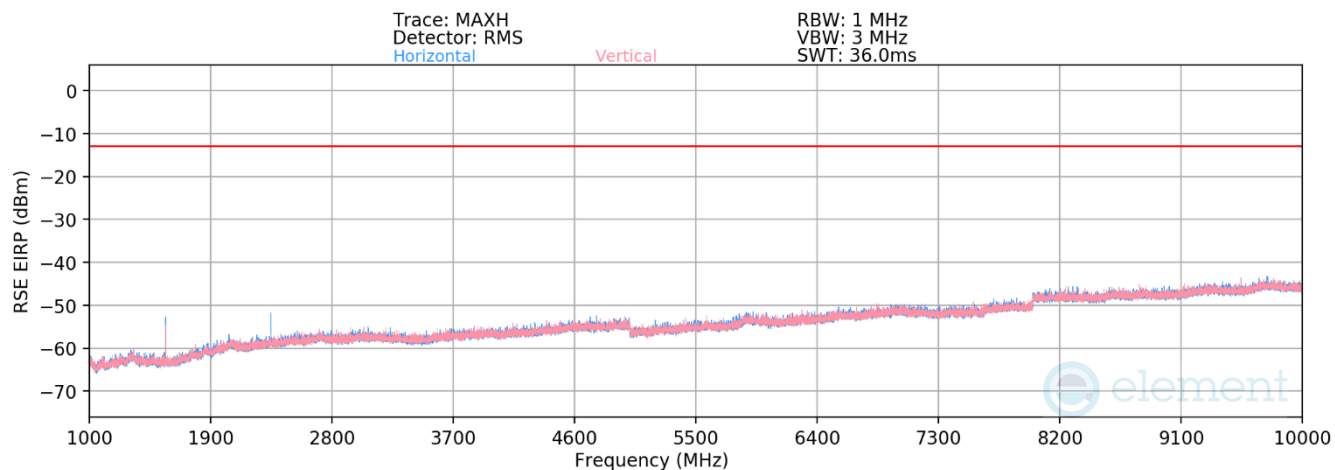
FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13



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)

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Bandwidth (MHz):	10
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	H	398	275	-73.95	-4.13	28.92	-66.34	-40.00	-26.34
2338.5	H	354	35	-76.75	0.76	31.01	-64.24	-13.00	-51.24
3118.0	H	-	-	-78.35	2.39	31.04	-64.22	-13.00	-51.22
3897.5	H	-	-	-79.19	3.18	30.99	-64.26	-13.00	-51.26

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

Bandwidth (MHz):	10
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	H	319	237	-72.60	-4.12	30.28	-64.98	-40.00	-24.98
2346.0	H	243	195	-76.16	0.82	31.66	-63.60	-13.00	-50.60
3128.0	H	-	-	-78.72	2.29	30.57	-64.69	-13.00	-51.69
3910.0	H	-	-	-79.07	3.22	31.15	-64.10	-13.00	-51.10

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

Bandwidth (MHz):	10
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	H	399	248	-73.58	-4.12	29.30	-65.96	-40.00	-25.96
2353.5	H	229	49	-77.08	0.87	30.79	-64.47	-13.00	-51.47
3138.0	H	-	-	-78.16	2.21	31.05	-64.21	-13.00	-51.21
3922.5	H	-	-	-78.96	3.18	31.22	-64.04	-13.00	-51.04

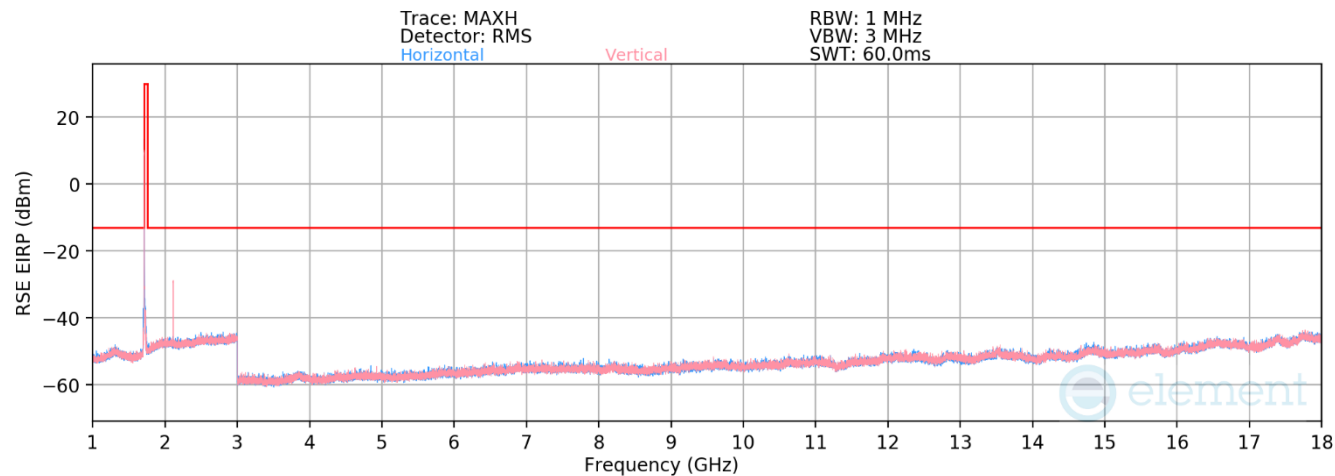
Table 7-16. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)

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WCDMA AWS



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

FCC ID: BCG-A2982	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	H	102	199	-75.63	1.64	33.01	-62.25	-13.00	-49.25
5137.2	H	-	-	-79.63	4.87	32.24	-63.02	-13.00	-50.02
6849.6	H	-	-	-81.69	8.76	34.07	-61.19	-13.00	-48.19
8562.0	H	-	-	-82.46	9.10	33.64	-61.62	-13.00	-48.62

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	H	181	194	-77.19	1.59	31.40	-63.86	-13.00	-50.86
5197.8	H	-	-	-79.41	4.71	32.30	-62.96	-13.00	-49.96
6930.4	H	-	-	-81.67	8.76	34.09	-61.17	-13.00	-48.17
8663.0	H	-	-	-82.59	8.97	33.38	-61.87	-13.00	-48.87

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	H	-	-	-79.03	2.66	30.63	-64.62	-13.00	-51.62
5257.8	H	116	109	-75.46	5.61	37.15	-58.11	-13.00	-45.11
7010.4	H	-	-	-81.86	8.46	33.60	-61.65	-13.00	-48.65
8763.0	H	-	-	-80.72	9.42	35.70	-59.56	-13.00	-46.56

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

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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

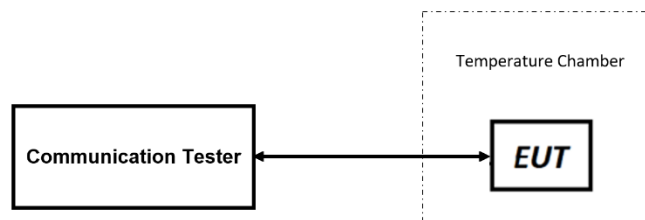


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None

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Frequency Stability / Temperature Variation

LTE Band 66/4				
		Operating Band Lower Boundary (GHz)	1.710	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.711138692	-0.0011387
		- 20	1.711151256	-0.0011513
		- 10	1.711041669	-0.0010417
		0	1.711036184	-0.0010362
		+ 10	1.711051223	-0.0010512
		+ 20 (Ref)	1.711033309	-0.0010333
		+ 30	1.711057548	-0.0010575
		+ 40	1.711079438	-0.0010794
		+ 50	1.711043127	-0.0010431
Battery Endpoint	3.40	+ 20	1.711056293	-0.0010563

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

LTE Band 66/4				
		Operating Band Upper Boundary (GHz)	1.780	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.778952141	-0.0010479
		- 20	1.778922236	-0.0010778
		- 10	1.779013276	-0.0009867
		0	1.779033408	-0.0009666
		+ 10	1.779048123	-0.0009519
		+ 20 (Ref)	1.779037772	-0.0009622
		+ 30	1.779042128	-0.0009579
		+ 40	1.779033532	-0.0009665
		+ 50	1.779064961	-0.0009350
Battery Endpoint	3.40	+ 20	1.779048174	-0.0009518

Table 7-21. LTE Band 66/4 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 12/17				
Operating Band Lower Boundary (GHz)			0.699	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69952	-0.0005242
		- 20	0.69953	-0.0005329
		- 10	0.69946	-0.0004615
		0	0.69947	-0.0004701
		+ 10	0.69946	-0.0004635
		+ 20 (Ref)	0.69948	-0.0004775
		+ 30	0.69948	-0.0004762
		+ 40	0.69950	-0.0004953
		+ 50	0.69950	-0.0004986
Battery Endpoint	3.40	+ 20	0.69951	-0.0005124

Table 7-22. LTE Band 12/17 Lower Boundary Frequency Stability Data

LTE Band 12/17				
Operating Band Upper Boundary (GHz)			0.716	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.71547	-0.0005299
		- 20	0.71547	-0.0005308
		- 10	0.71554	-0.0004594
		0	0.71554	-0.0004594
		+ 10	0.71554	-0.0004621
		+ 20 (Ref)	0.71552	-0.0004773
		+ 30	0.71553	-0.0004652
		+ 40	0.71554	-0.0004606
		+ 50	0.71554	-0.0004604
Battery Endpoint	3.40	+ 20	0.71554	-0.0004578

Table 7-23. LTE Band 12/17 Upper Boundary Frequency Stability Data

FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 13				
		Operating Band Lower Boundary (GHz)	0.777	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.77727	-0.0002712
		- 20	0.77727	-0.0002684
		- 10	0.77724	-0.0002442
		0	0.77725	-0.0002483
		+ 10	0.77725	-0.0002506
		+ 20 (Ref)	0.77724	-0.0002443
		+ 30	0.77720	-0.0002049
		+ 40	0.77725	-0.0002547
		+ 50	0.77726	-0.0002620
Battery Endpoint	3.40	+ 20	0.77726	-0.0002562

Table 7-24. LTE Band 13 Lower Boundary Frequency Stability Data

LTE Band 13				
		Operating Band Upper Boundary (GHz)	0.787	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.78674	-0.0002614
		- 20	0.78674	-0.0002605
		- 10	0.78675	-0.0002548
		0	0.78675	-0.0002477
		+ 10	0.78675	-0.0002538
		+ 20 (Ref)	0.78676	-0.0002437
		+ 30	0.78680	-0.0002016
		+ 40	0.78677	-0.0002281
		+ 50	0.78674	-0.0002597
Battery Endpoint	3.40	+ 20	0.78685	-0.0001522

Table 7-25. LTE Band 13 Upper Boundary Frequency Stability Data

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Frequency Stability / Temperature Variation

WCDMA AWS				
Operating Band Lower Boundary (GHz)			1.710	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.710362644	-0.0003626
		- 20	1.710369070	-0.0003691
		- 10	1.710374039	-0.0003740
		0	1.710372532	-0.0003725
		+ 10	1.710374146	-0.0003741
		+ 20 (Ref)	1.710375527	-0.0003755
		+ 30	1.710375449	-0.0003754
		+ 40	1.710376464	-0.0003765
		+ 50	1.710375126	-0.0003751
Battery Endpoint	3.40	+ 20	1.710369258	-0.0003693

Table 7-26. WCDMA AWS Lower Boundary Frequency Stability Data

WCDMA AWS				
Operating Band Upper Boundary (GHz)			1.755	
Ref. Voltage (VDC)			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.754637943	-0.0003621
		- 20	1.754640507	-0.0003595
		- 10	1.754637976	-0.0003620
		0	1.754634806	-0.0003652
		+ 10	1.754635847	-0.0003642
		+ 20 (Ref)	1.754635772	-0.0003642
		+ 30	1.754638623	-0.0003614
		+ 40	1.754638648	-0.0003614
		+ 50	1.754637260	-0.0003627
Battery Endpoint	3.40	+ 20	1.754634528	-0.0003655

Table 7-27. WCDMA AWS Upper Boundary Frequency Stability Data

FCC ID: BCG-A2982	 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-A2982** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCG-A2982	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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