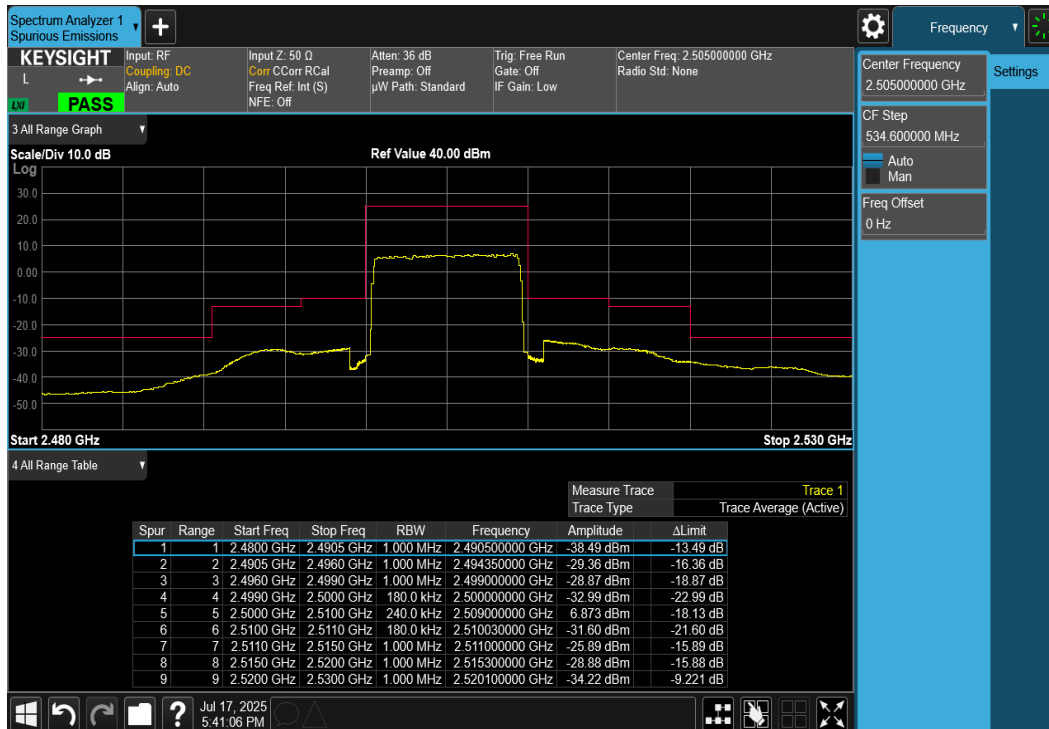


Plot 7-86. Upper Band Edge Plot (LTE Band 7 - 5MHz QPSK - Full RB)

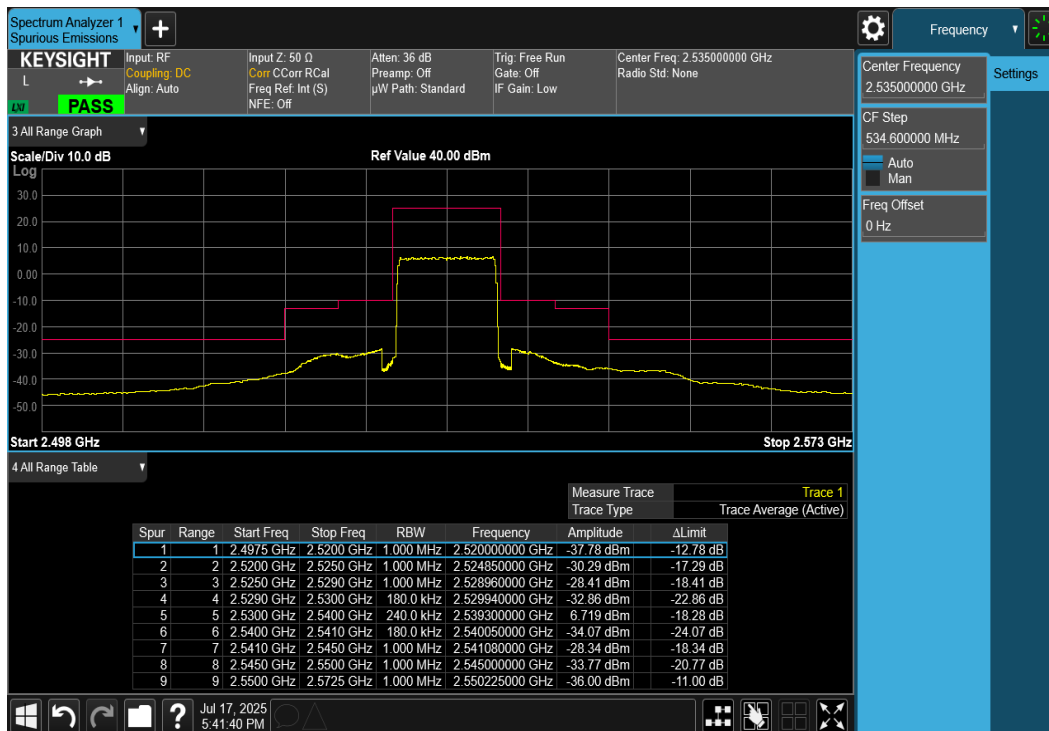


Plot 7-87. Lower Band Edge Plot (LTE Band 7 - 10MHz QPSK - Full RB)

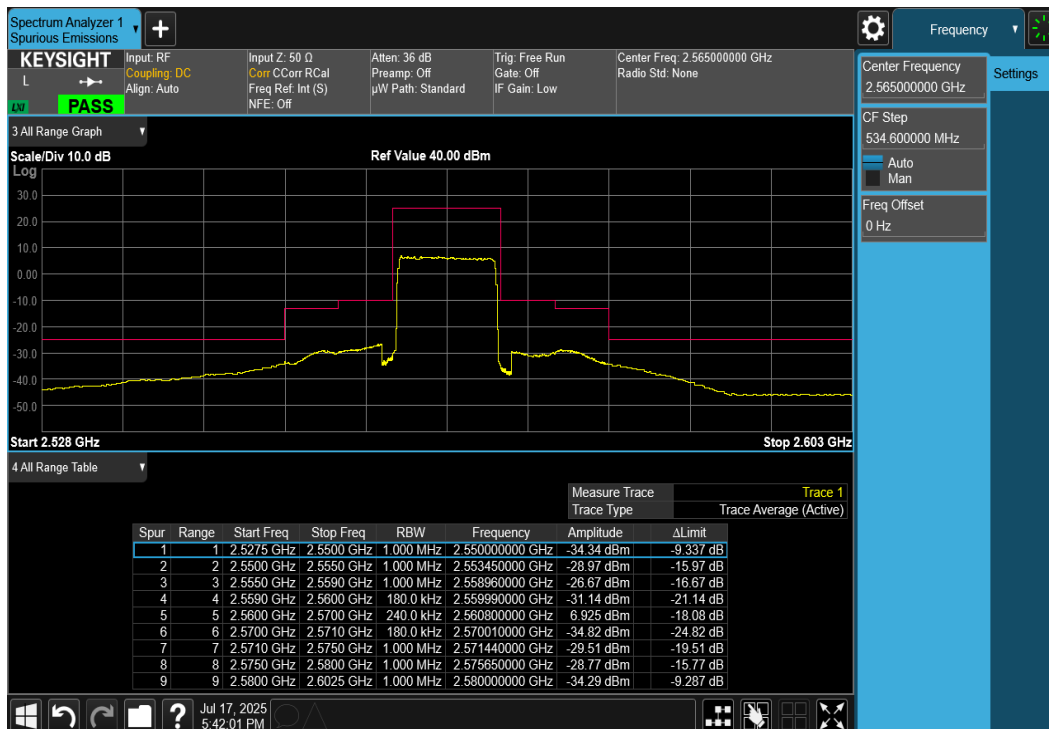
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-88. Mid Band Edge Plot (LTE Band 7 - 10MHz QPSK - Full RB)

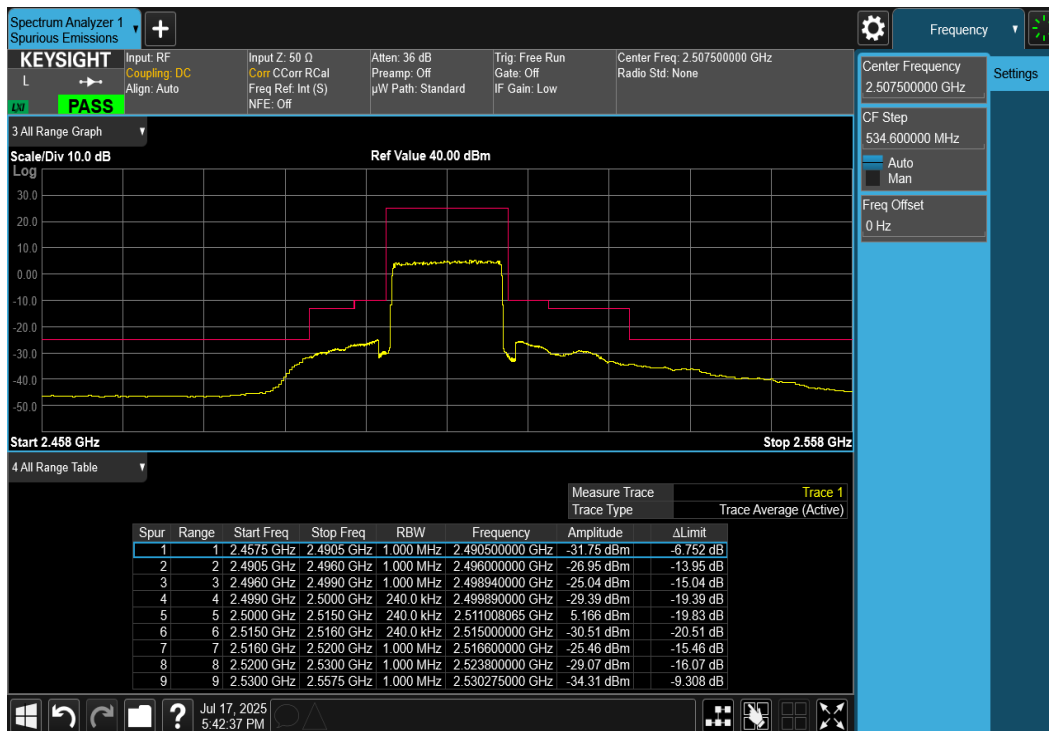


Plot 7-89. Upper Band Edge Plot (LTE Band 7 - 10MHz QPSK - Full RB)

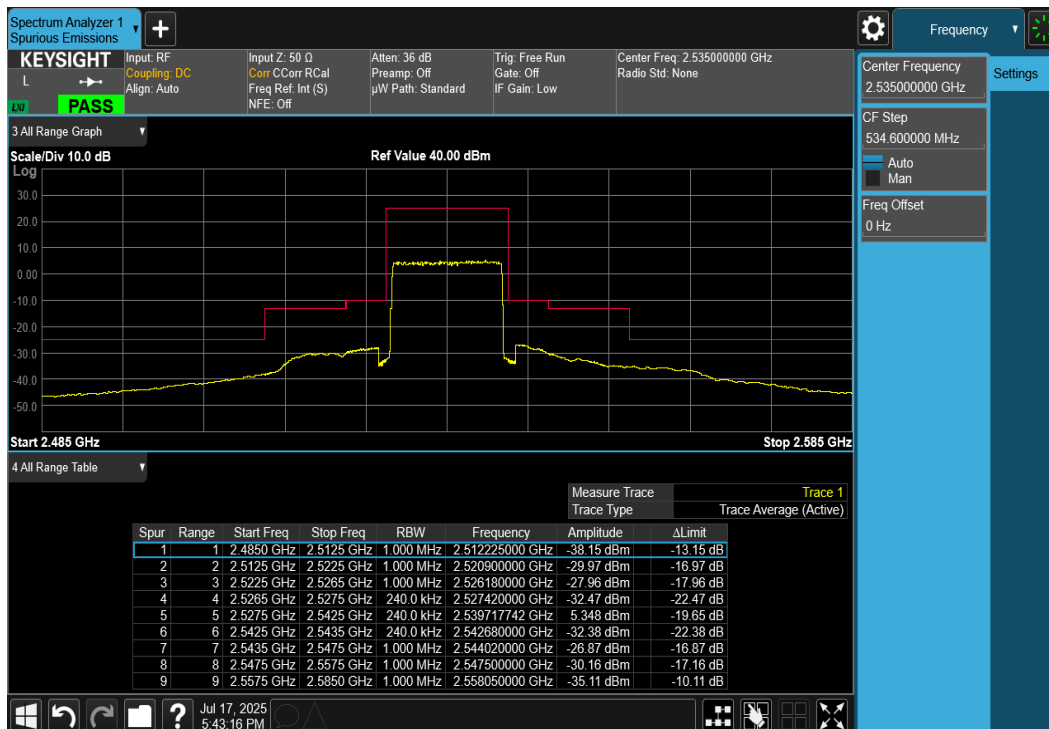
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 67 of 112

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Plot 7-90. Lower Band Edge Plot (LTE Band 7 - 15MHz QPSK - Full RB)

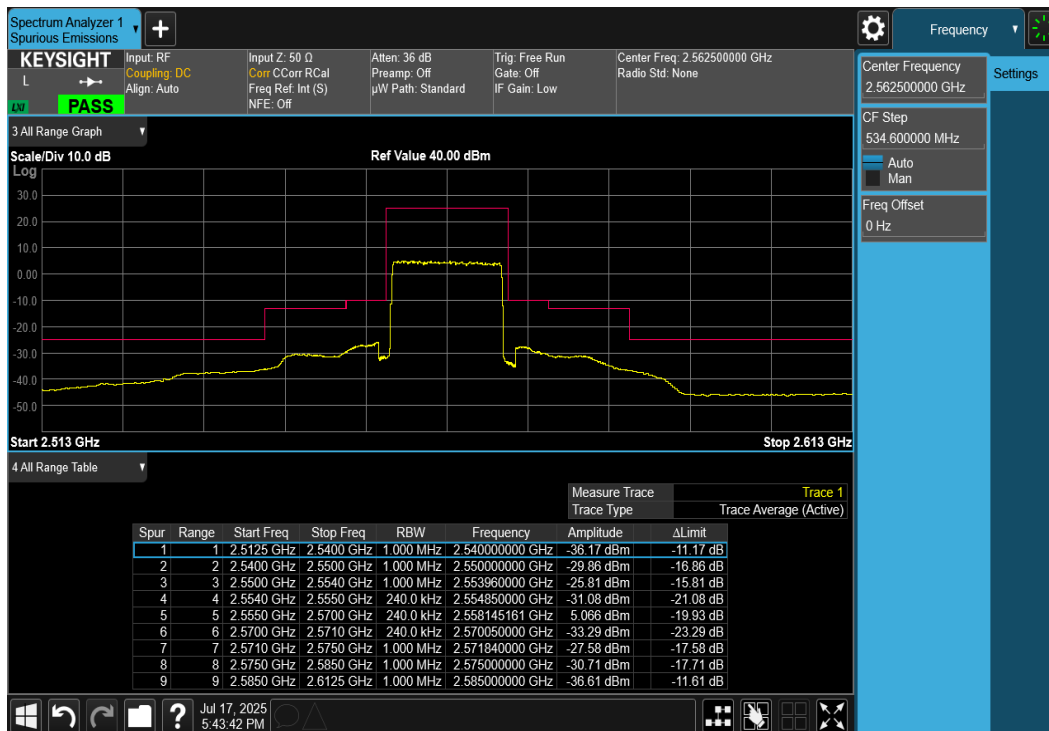


Plot 7-91. Mid Band Edge Plot (LTE Band 7 - 15MHz QPSK - Full RB)

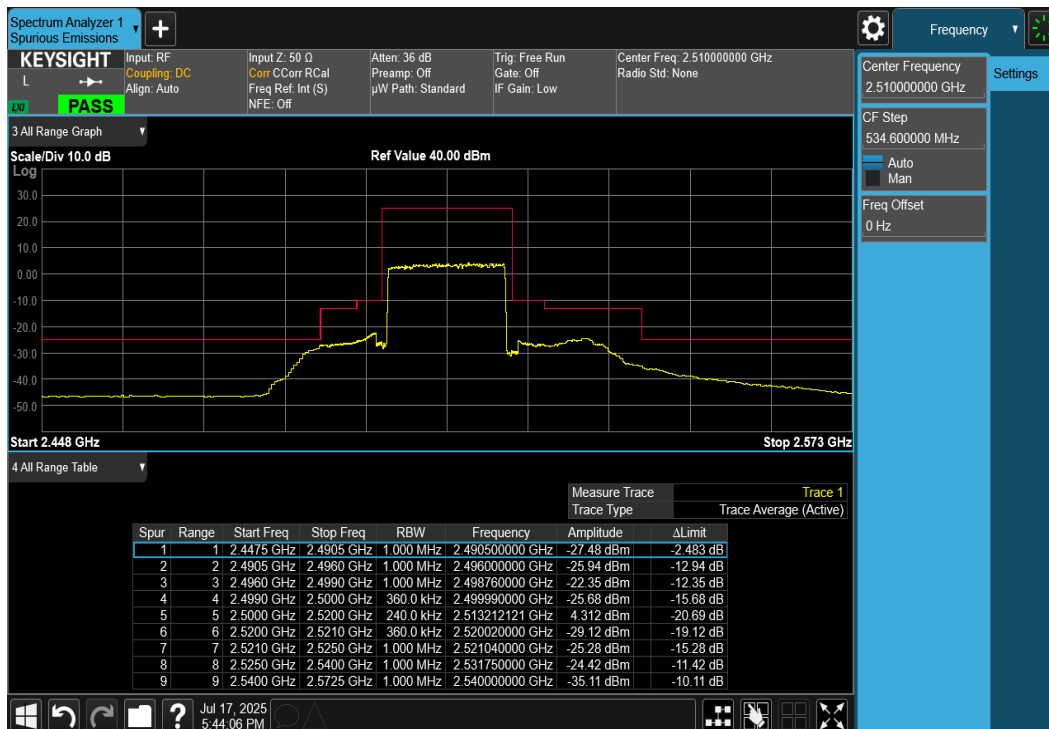
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 68 of 112

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Plot 7-92. Upper Band Edge Plot (LTE Band 7 - 15MHz QPSK - Full RB)

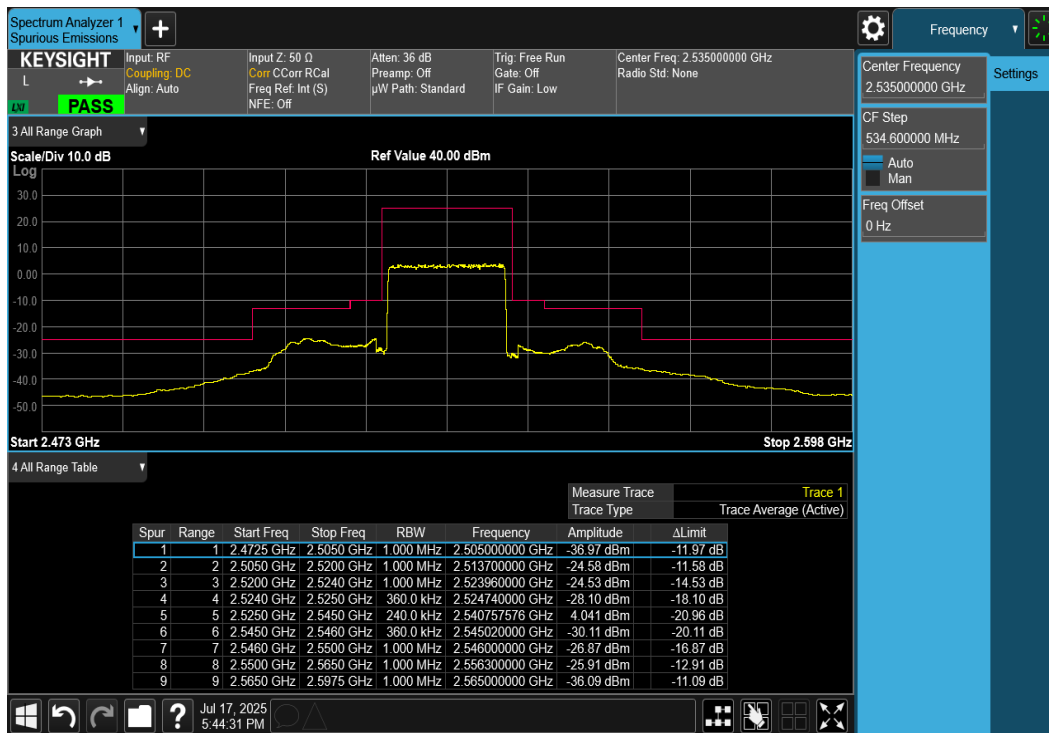


Plot 7-93. Lower Band Edge Plot (LTE Band 7 - 20MHz QPSK - Full RB)

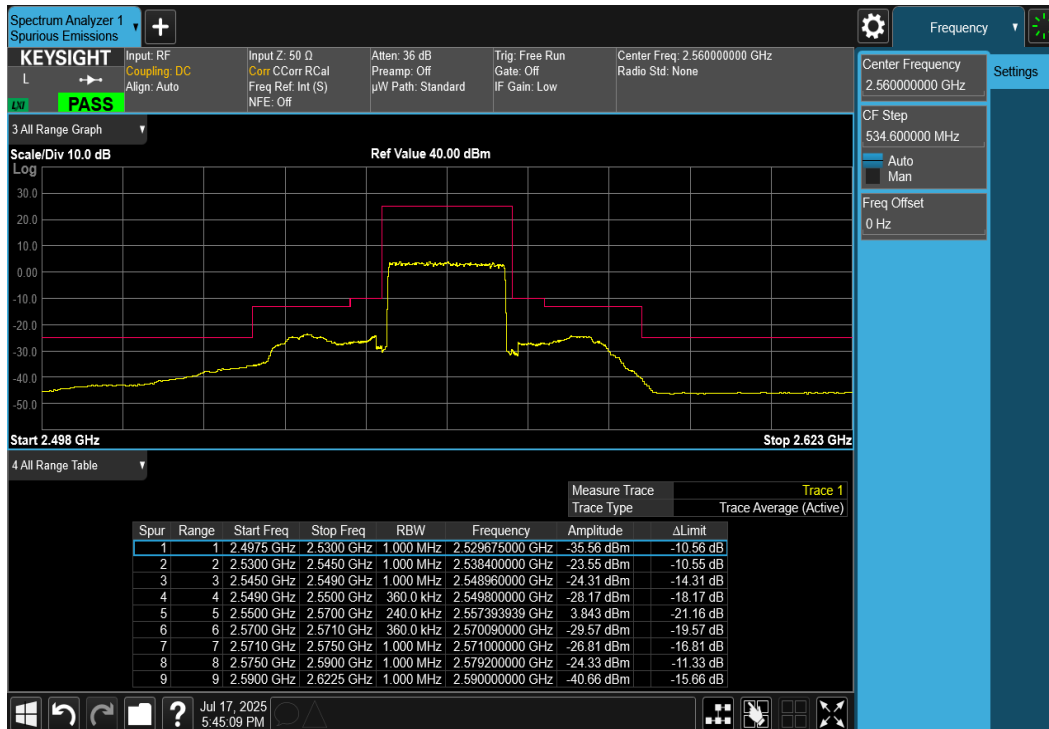
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-94. Mid Band Edge Plot (LTE Band 7 - 20MHz QPSK – Full RB)



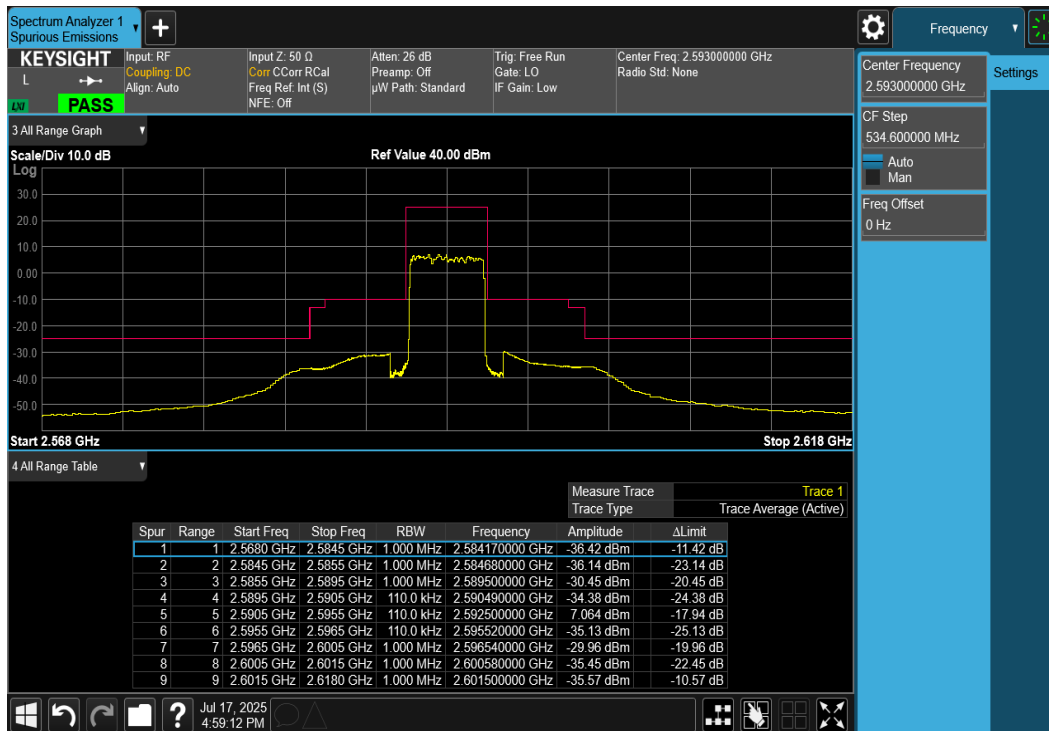
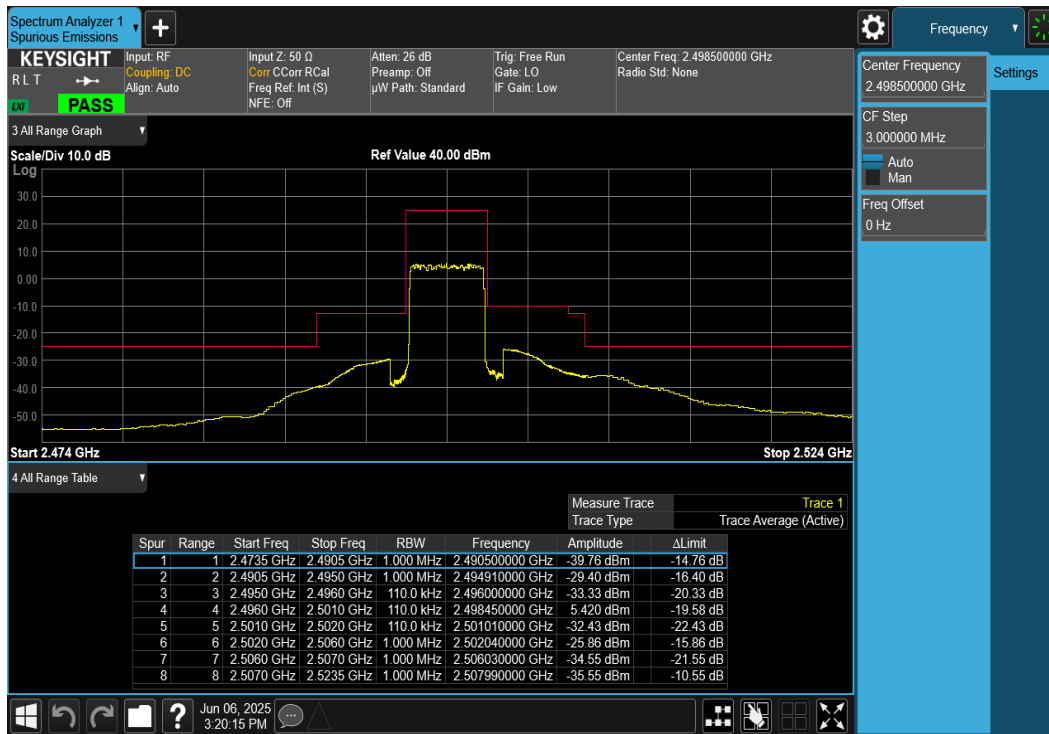
Plot 7-95. Upper Band Edge Plot (LTE Band 7 - 20MHz QPSK – Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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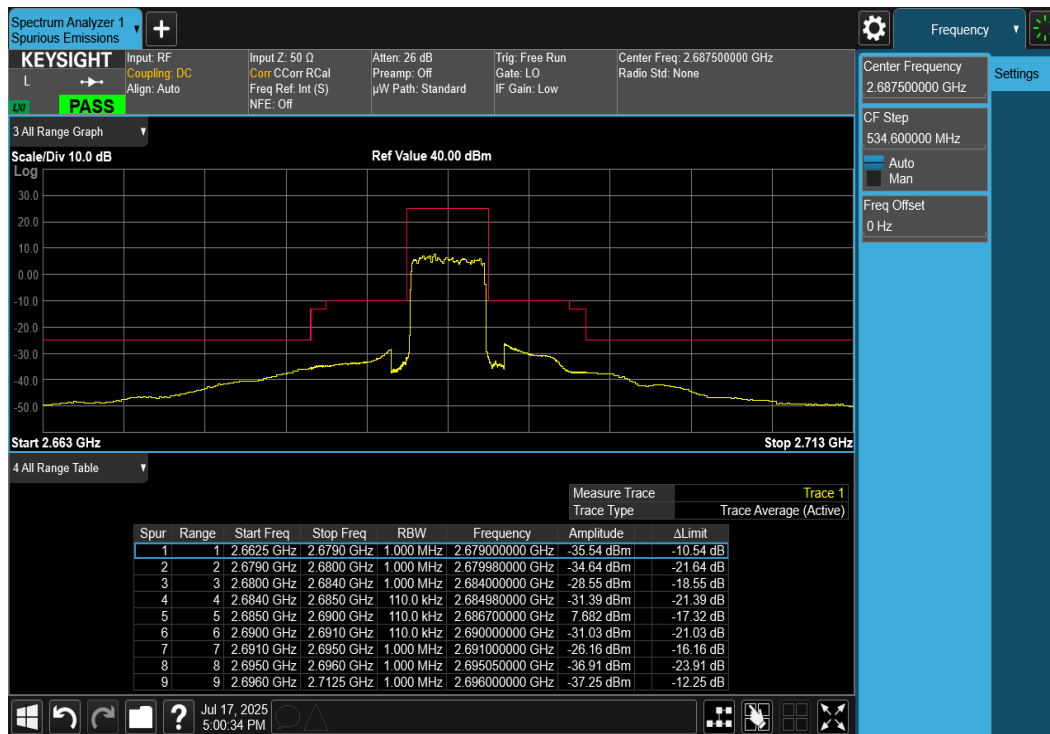
## LTE Band 41



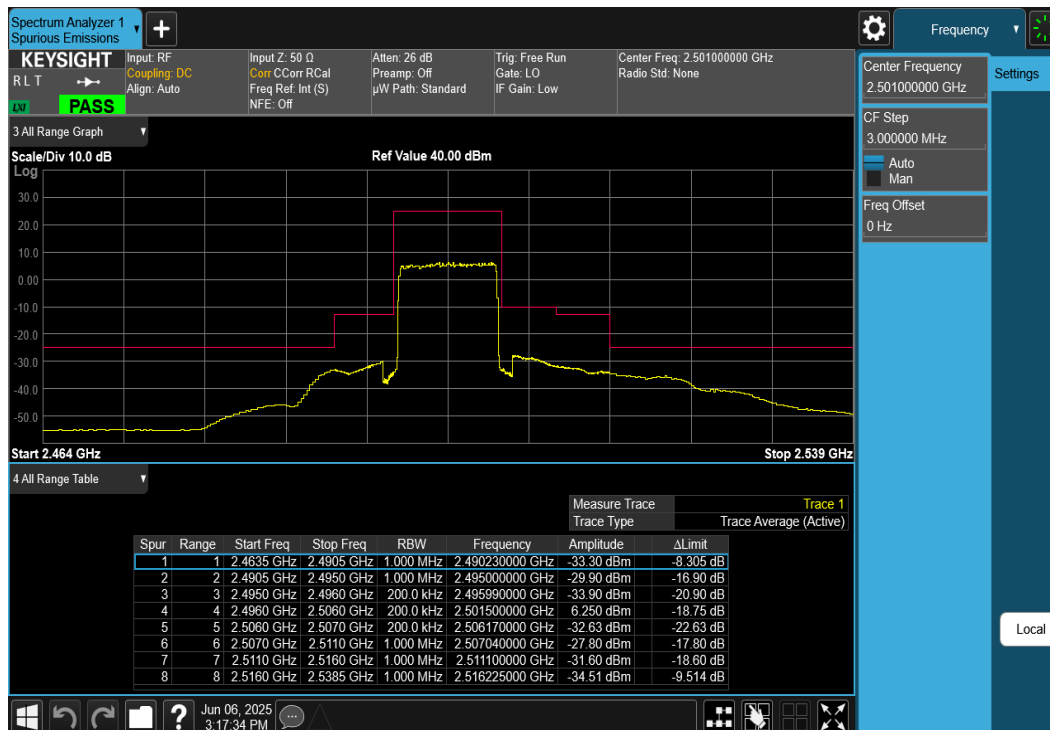
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 71 of 112

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Plot 7-98. Upper Band Edge Plot (LTE Band 41 - 5MHz QPSK – Full RB)

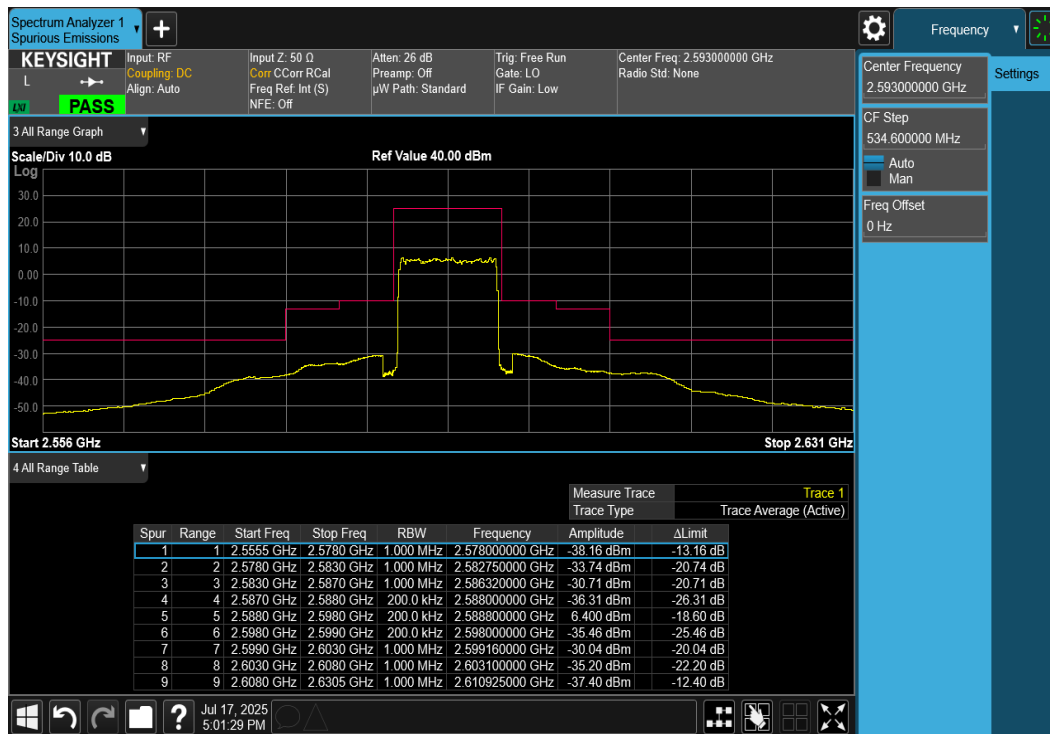


Plot 7-99. Lower Band Edge Plot (LTE Band 41 - 10MHz QPSK – Full RB)

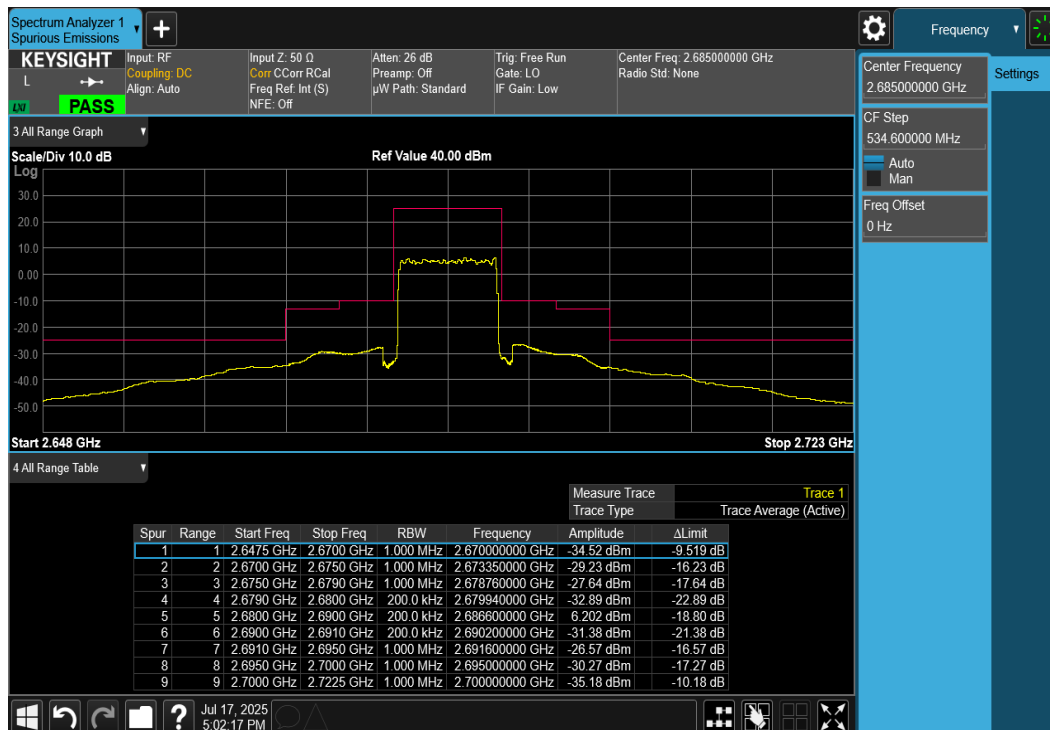
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-100. Mid Band Edge Plot (LTE Band 41 - 10MHz QPSK – Full RB)



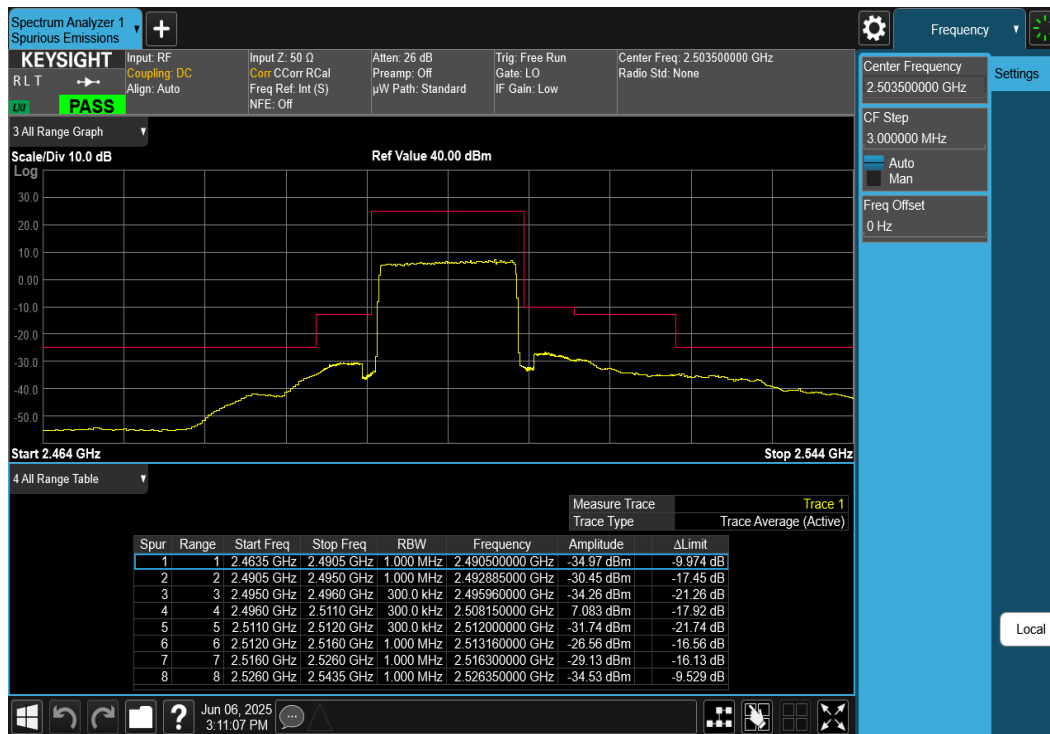
Plot 7-101. Upper Band Edge Plot (LTE Band 41 – 10MHz QPSK – Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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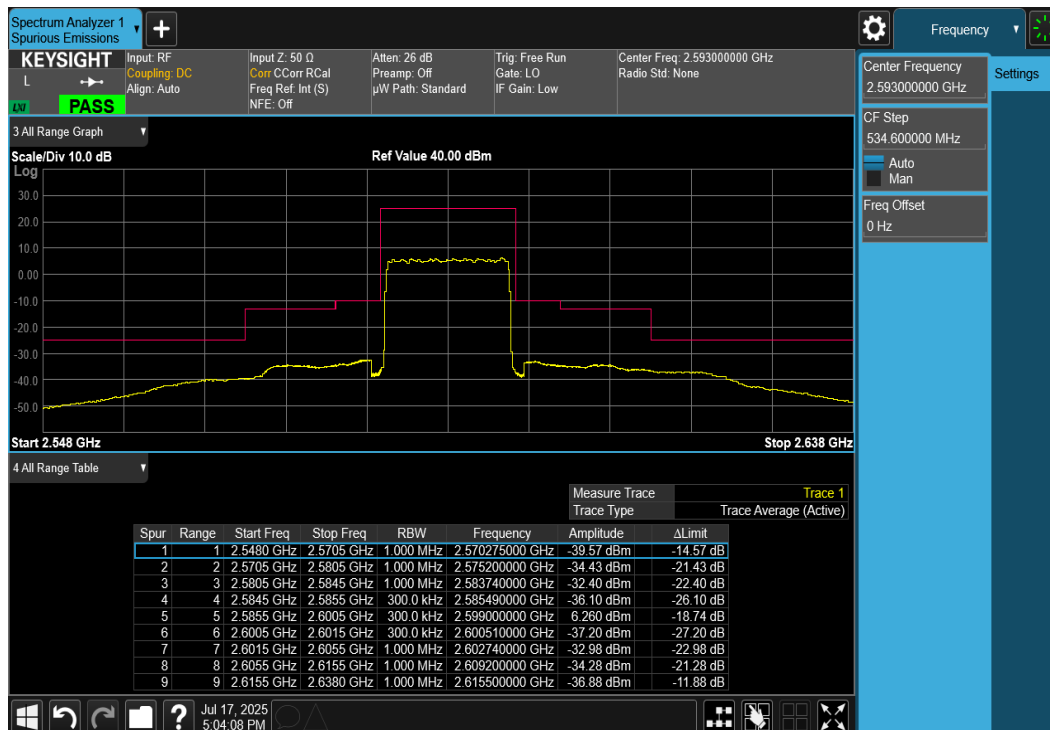
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Plot 7-102. Lower Band Edge Plot (LTE Band 41 - 15MHz QPSK – Full RB)

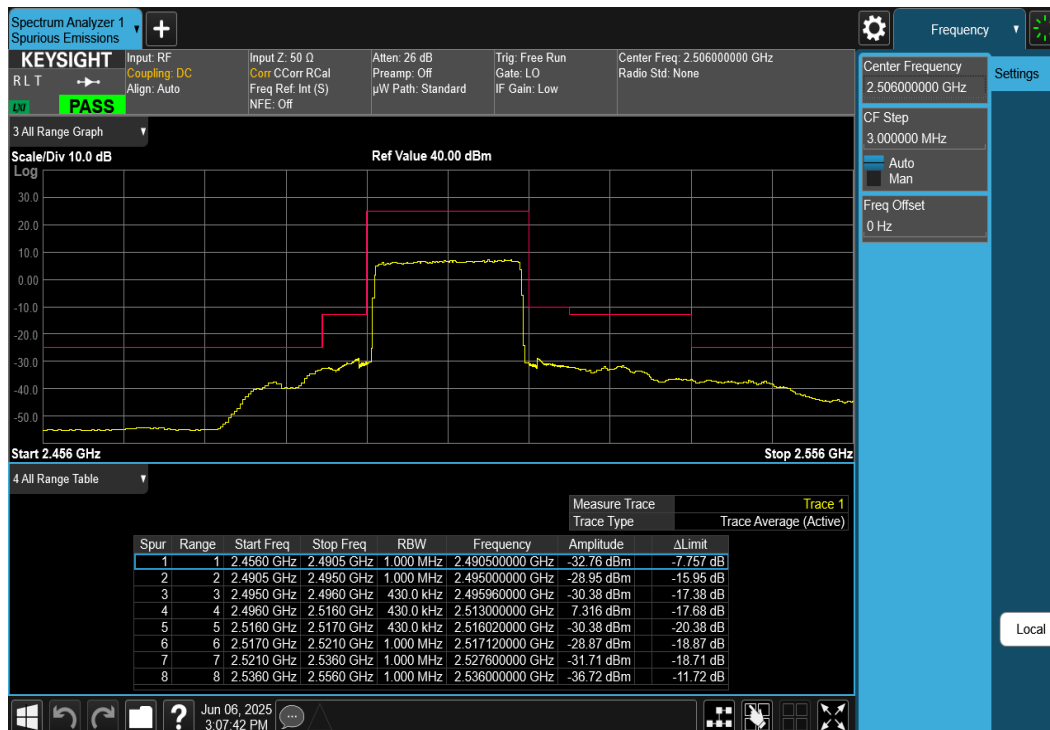
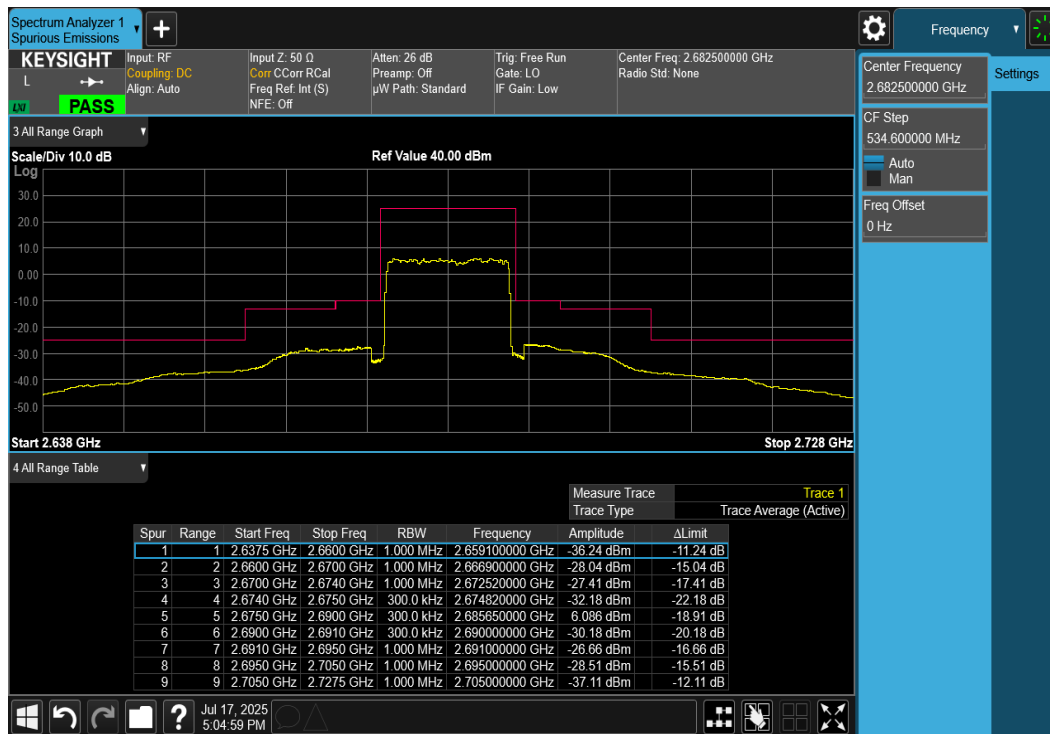


Plot 7-103. Mid Band Edge Plot (LTE Band 41 - 15MHz QPSK – Full RB)

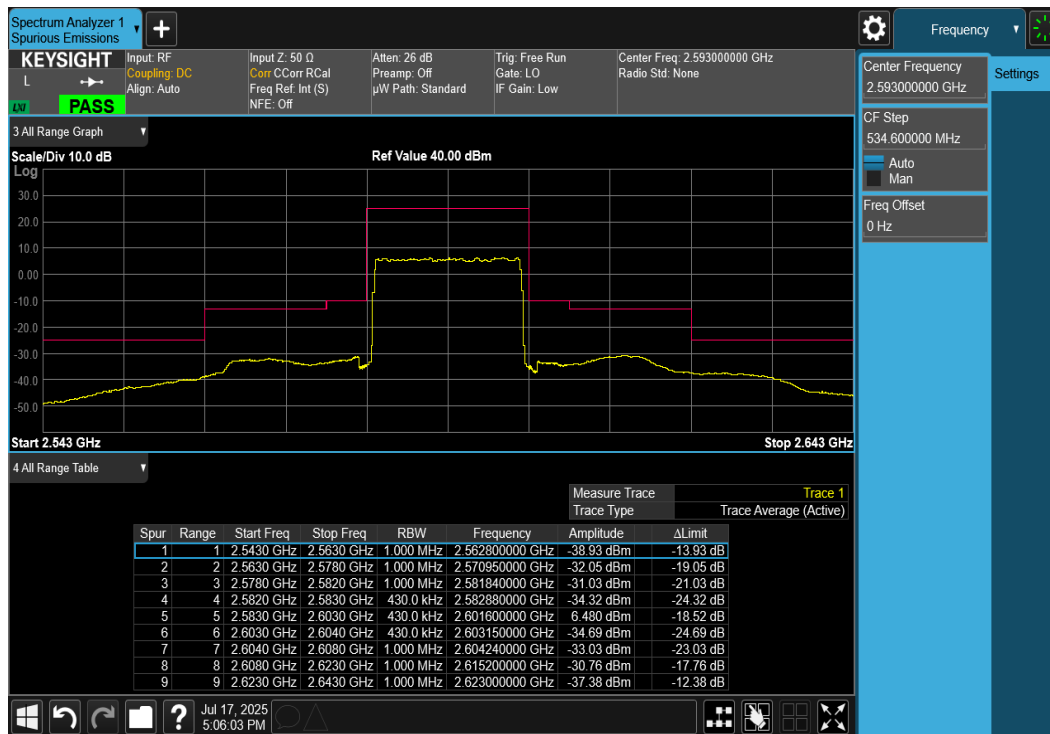
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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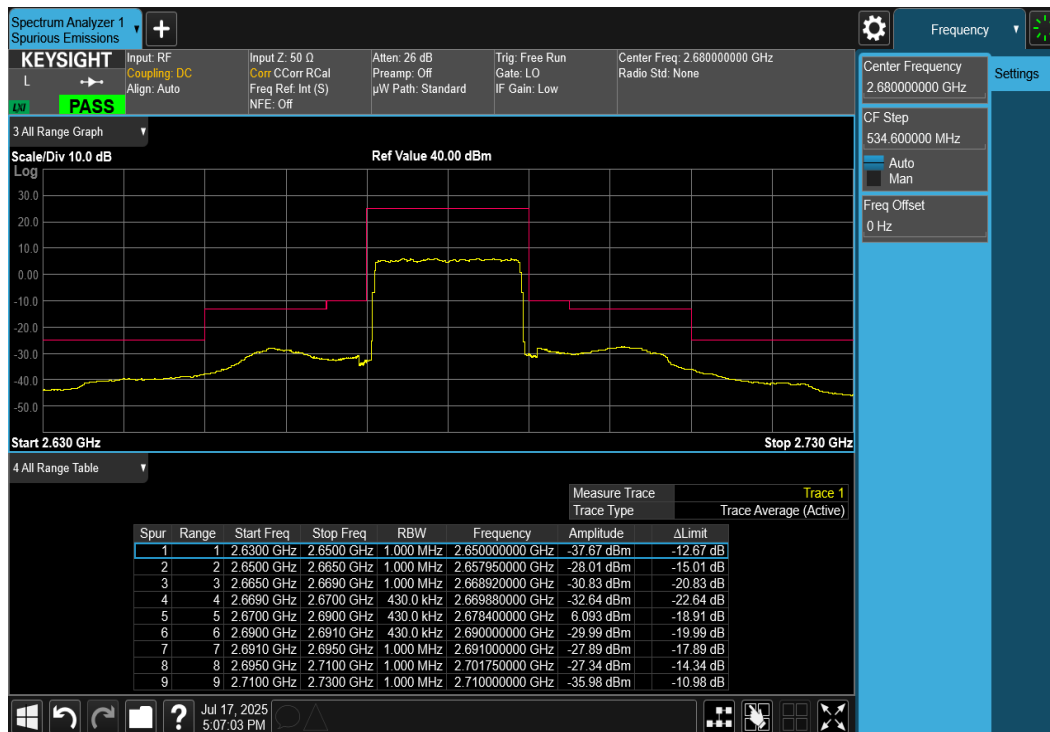
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FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-106. Mid Band Edge Plot (LTE Band 41 - 20MHz QPSK – Full RB)



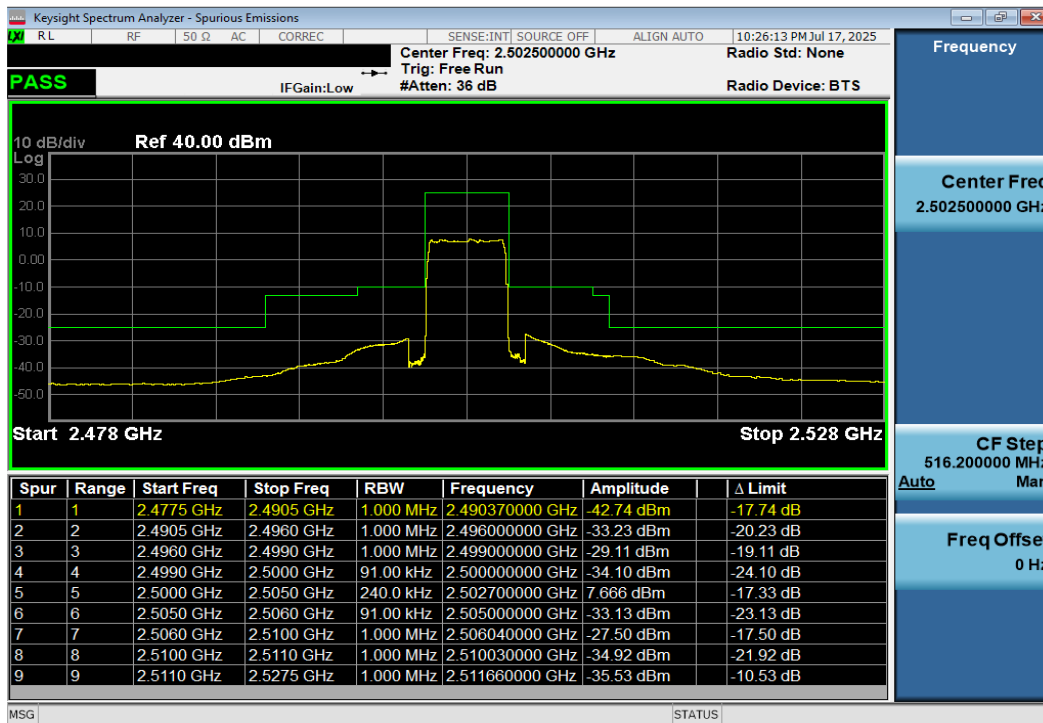
Plot 7-107. Upper Band Edge Plot (LTE Band 41 - 20MHz QPSK – Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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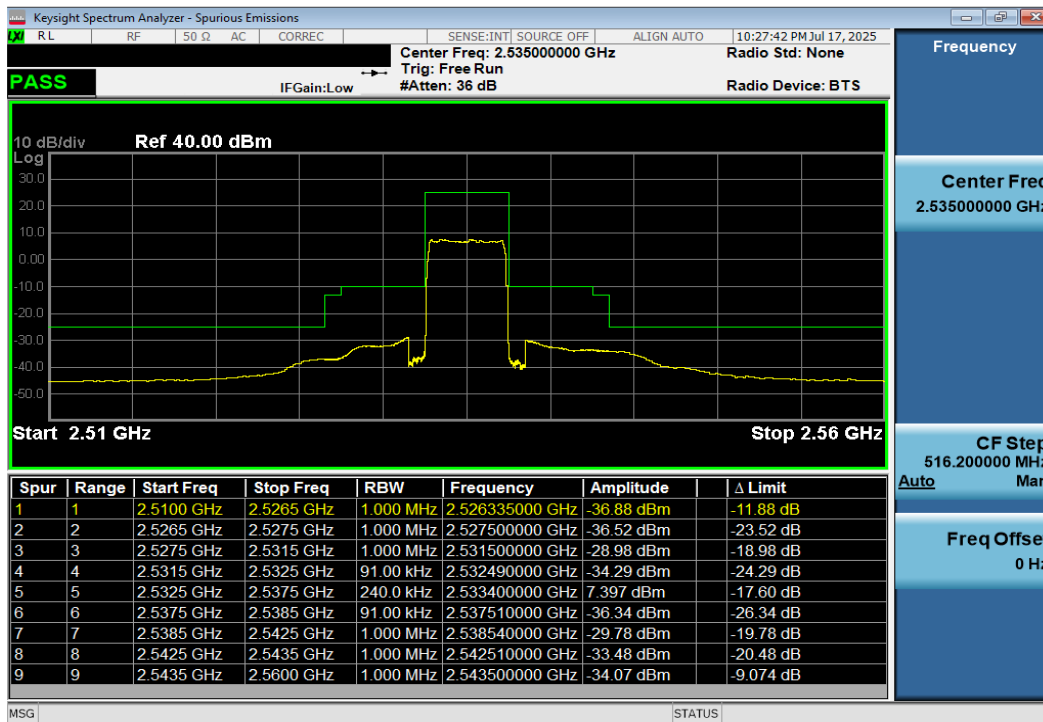
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## NR Band n7



Plot 7-108. Lower Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

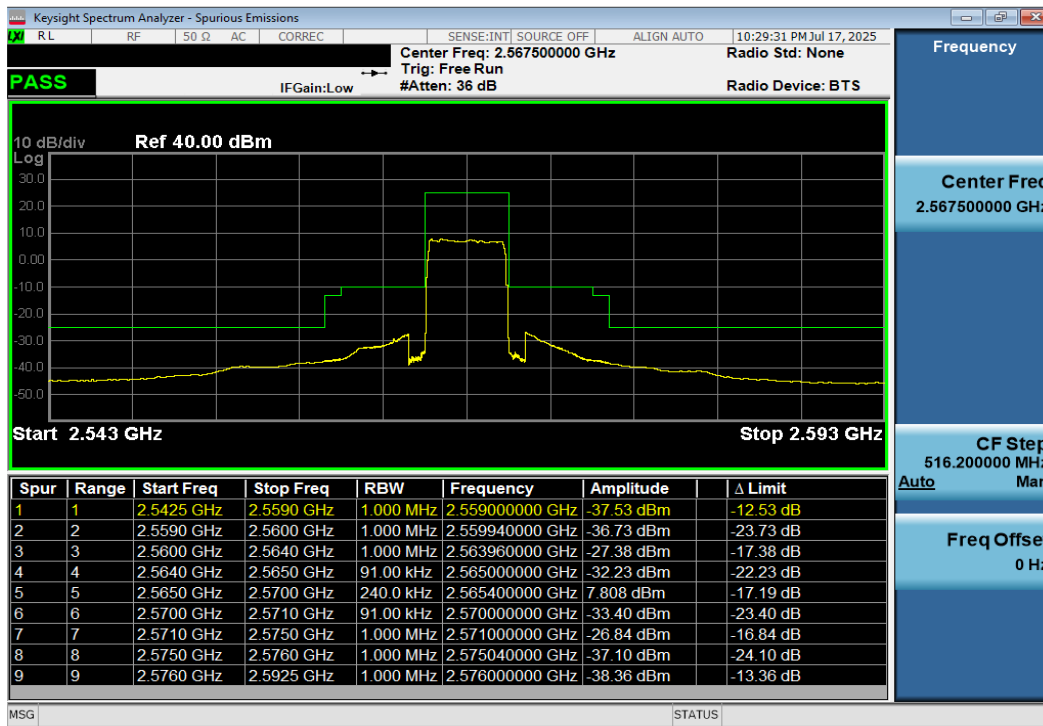


Plot 7-109. Mid Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

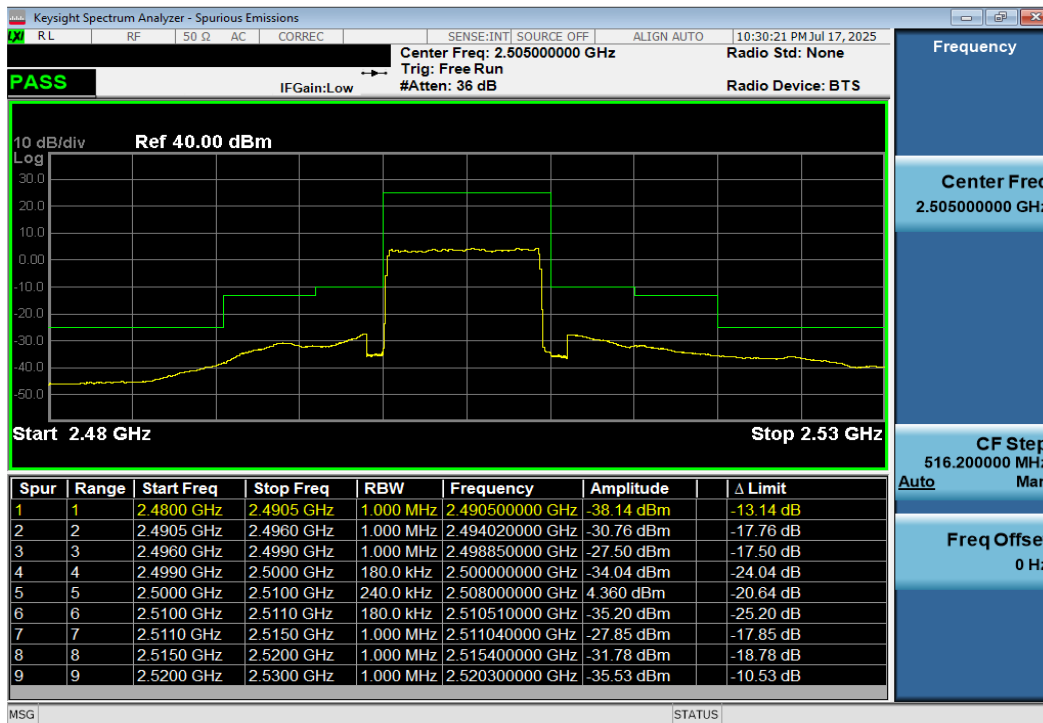
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 77 of 112

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Plot 7-110. Upper Band Edge Plot (NR Band n7 - 5MHz DFT-s-OFDM QPSK – Full RB)

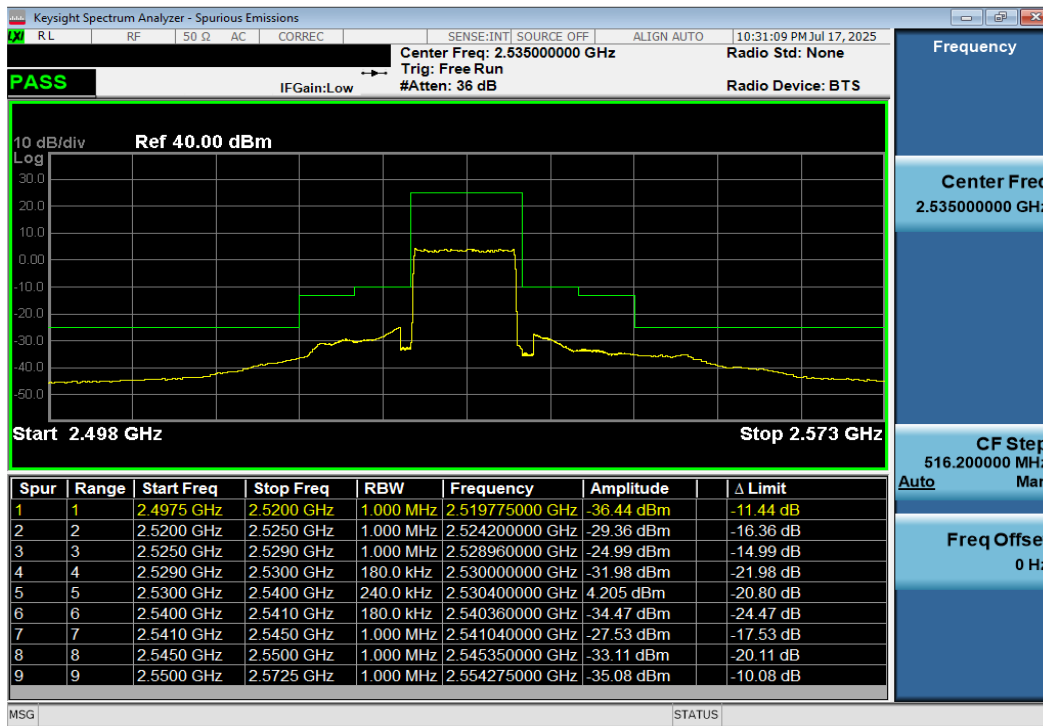


Plot 7-111. Lower Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

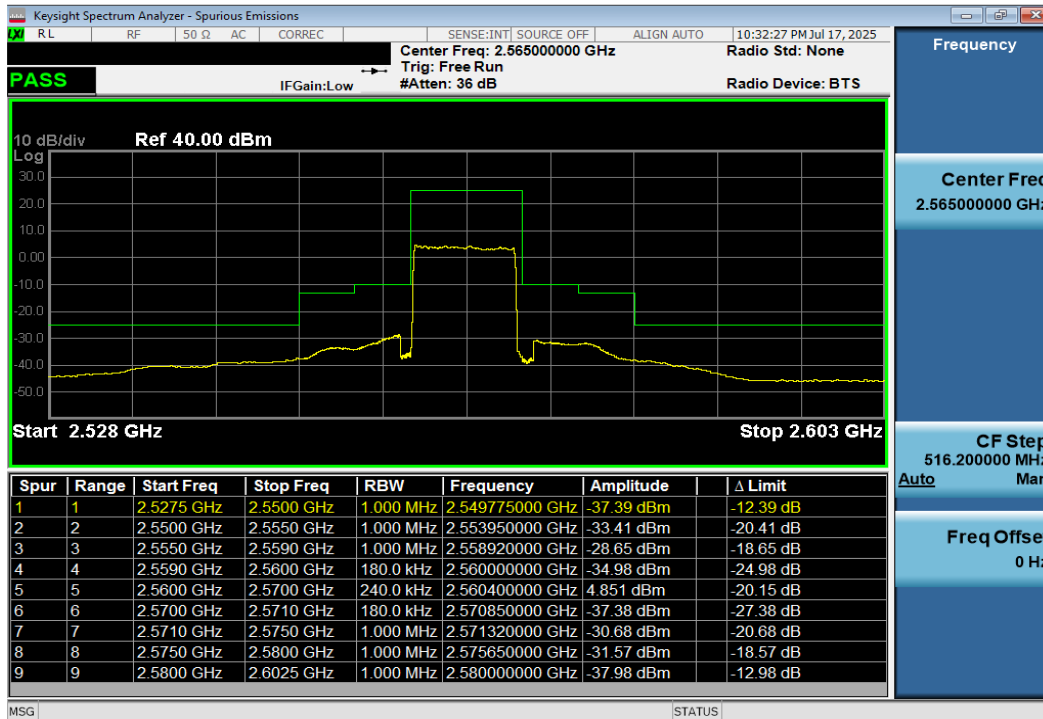
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 78 of 112

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Plot 7-112. Mid Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

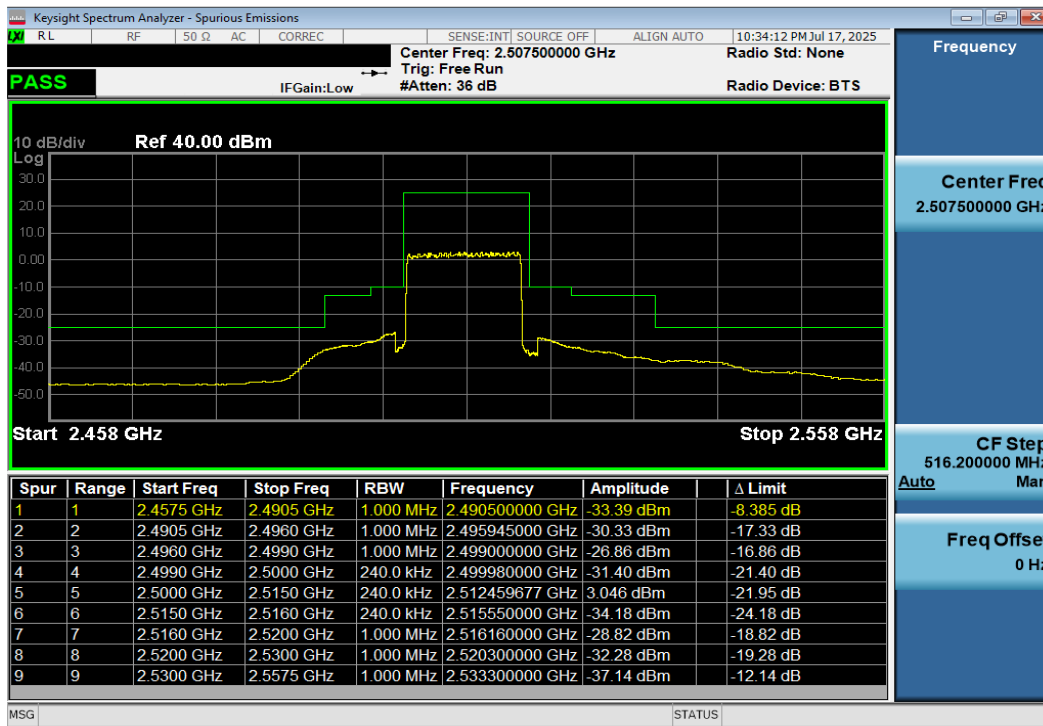


Plot 7-113. Upper Band Edge Plot (NR Band n7 - 10MHz DFT-s-OFDM QPSK – Full RB)

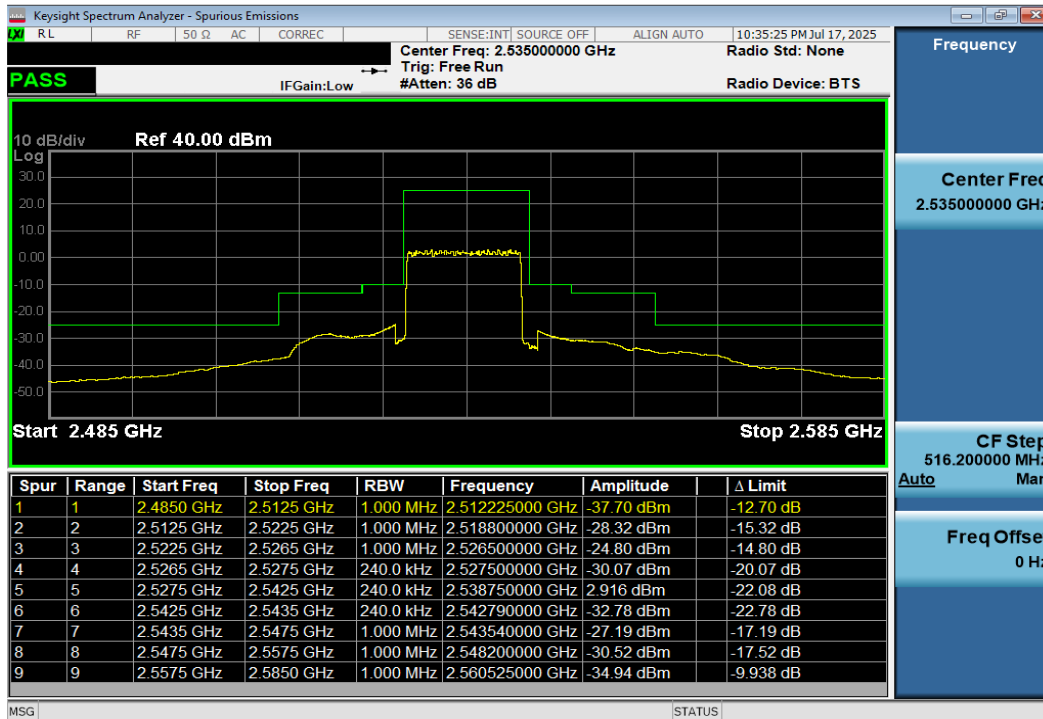
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 79 of 112

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Plot 7-114. Lower Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)



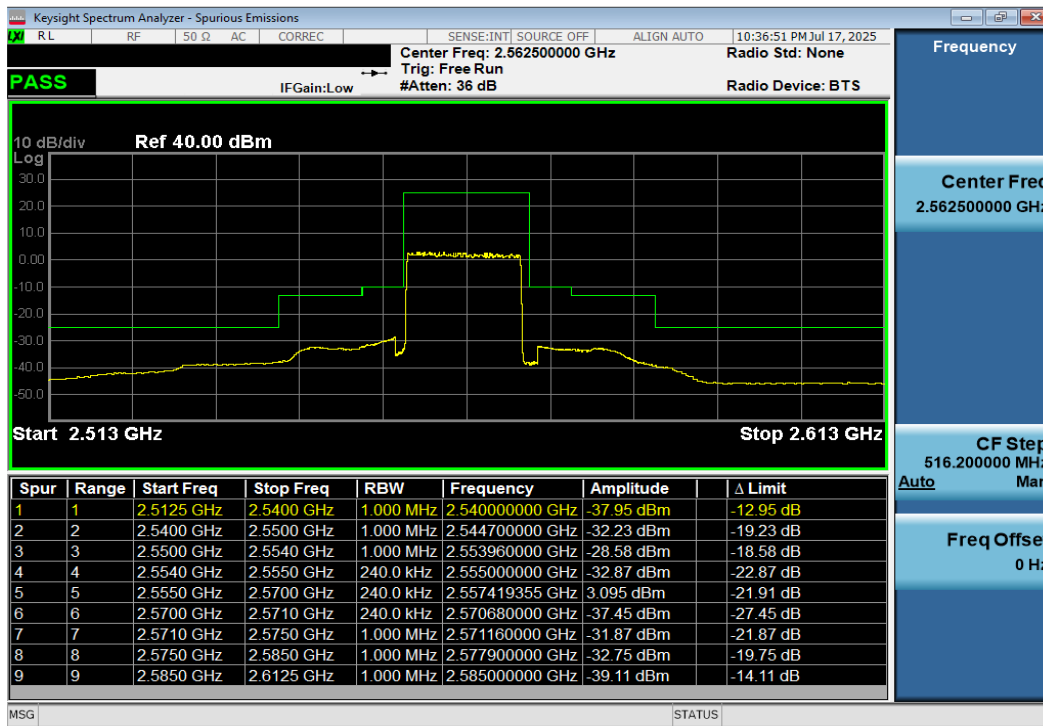
Plot 7-115. Mid Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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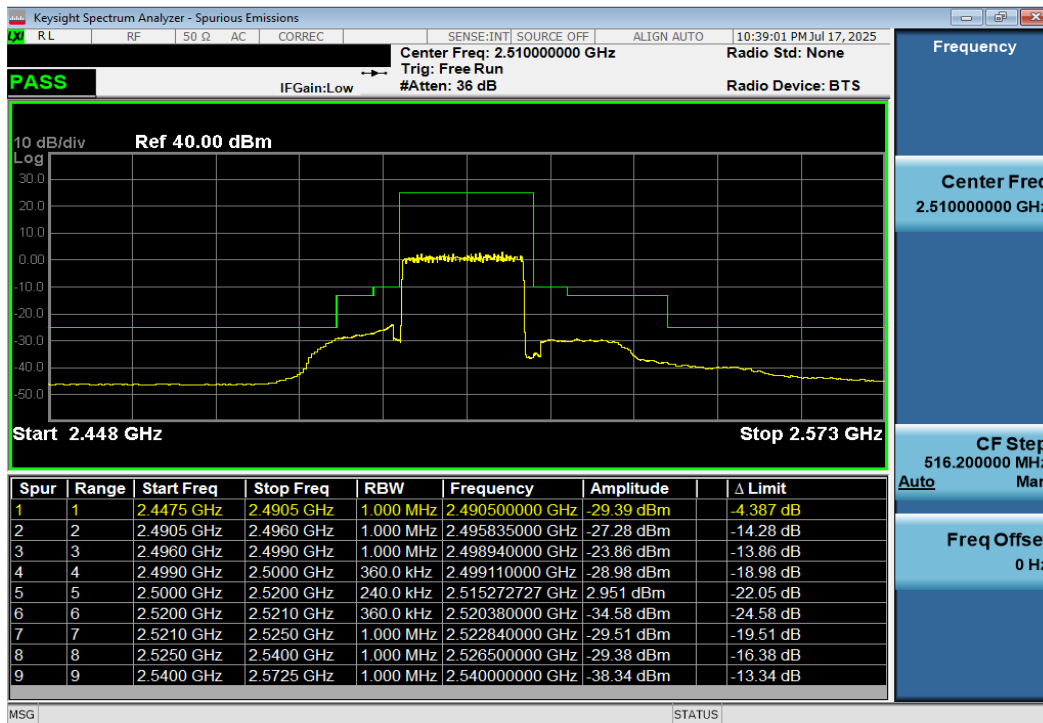
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Plot 7-116. Upper Band Edge Plot (NR Band n7 - 15MHz DFT-s-OFDM QPSK – Full RB)



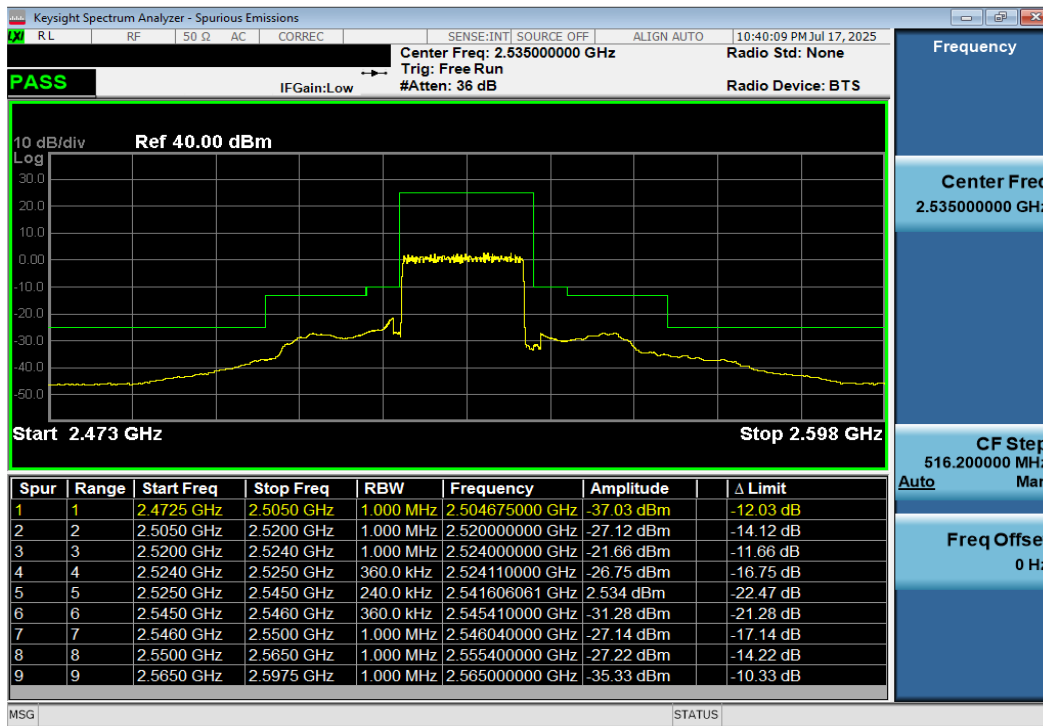
Plot 7-117. Lower Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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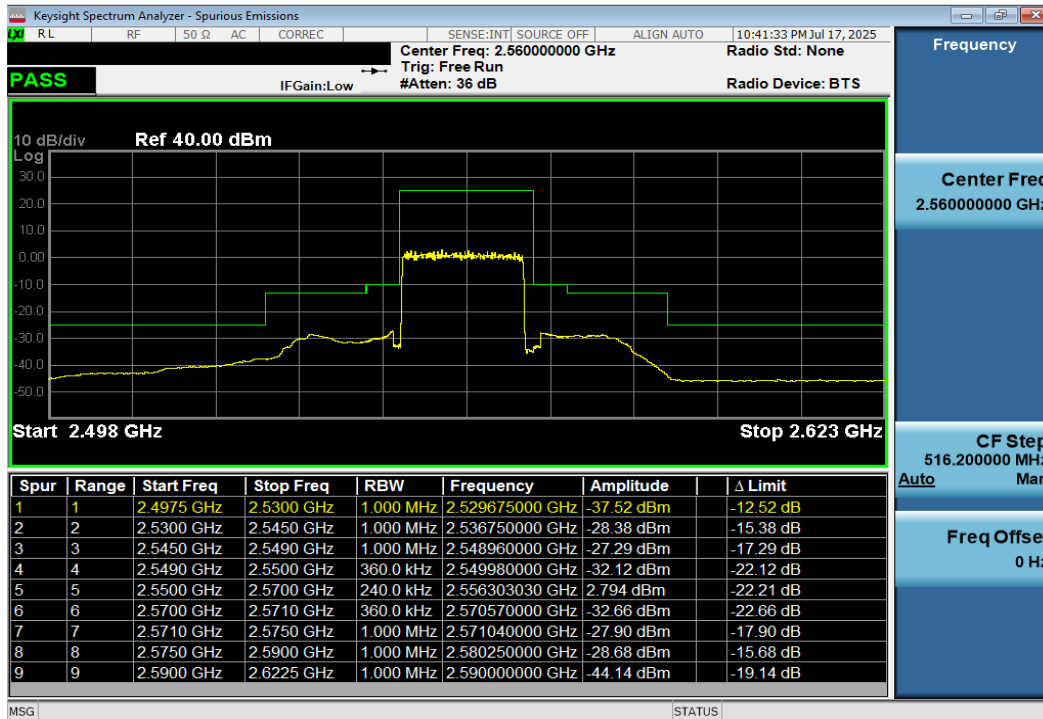
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Plot 7-118. Mid Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)



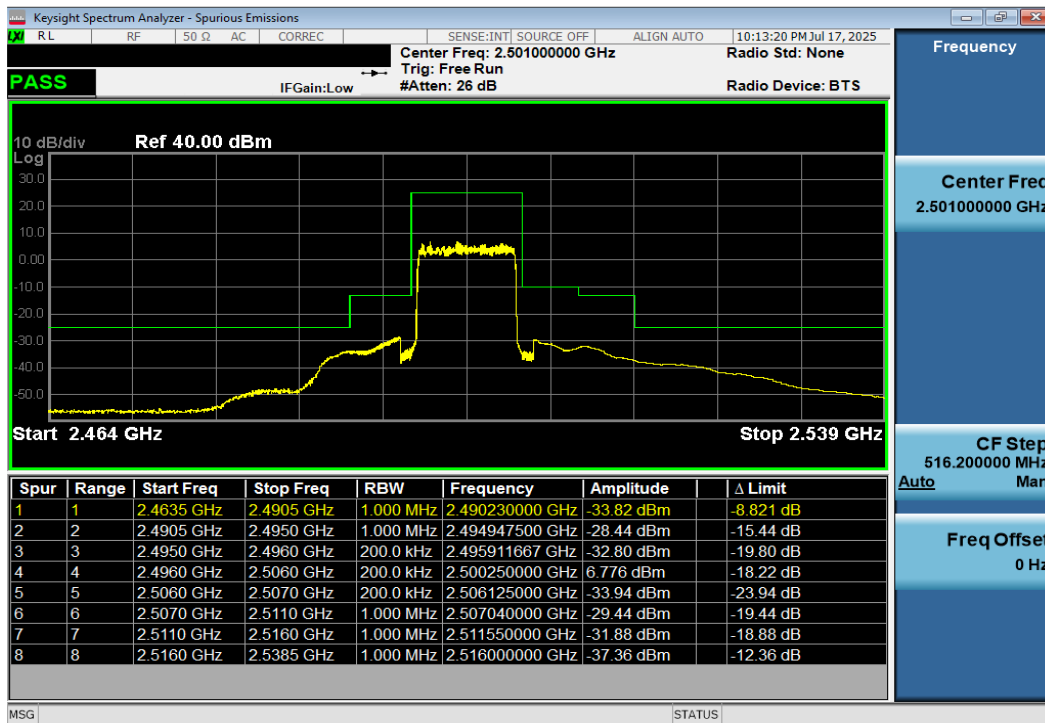
Plot 7-119. Upper Band Edge Plot (NR Band n7 - 20MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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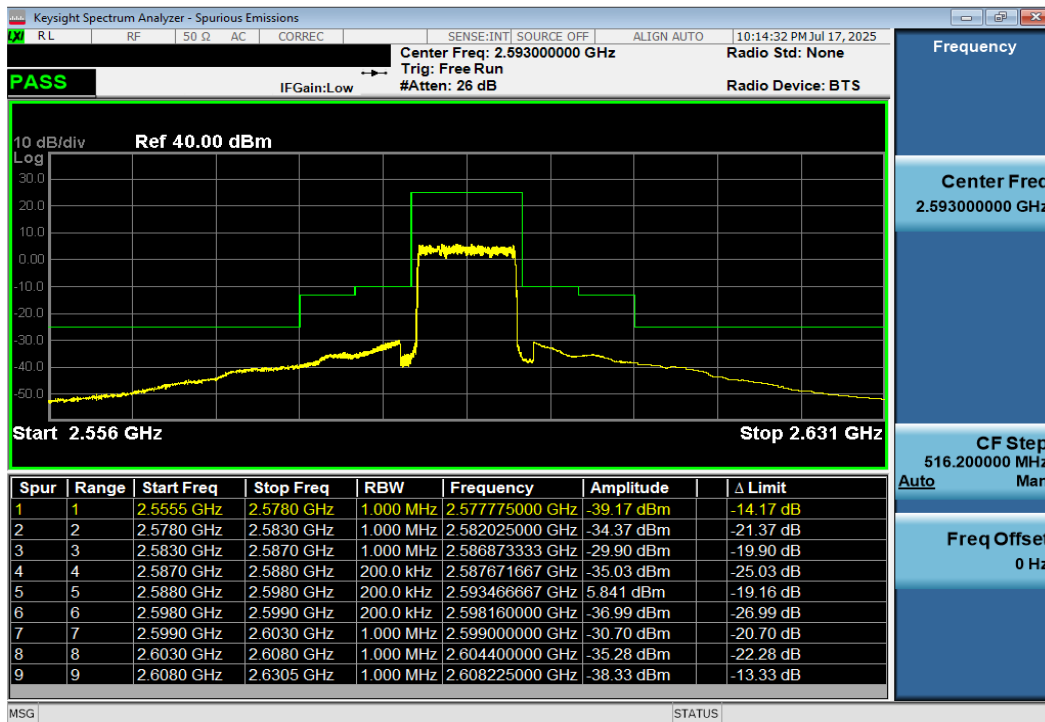
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## NR Band n41



Plot 7-120. Lower Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM QPSK – Full RB)

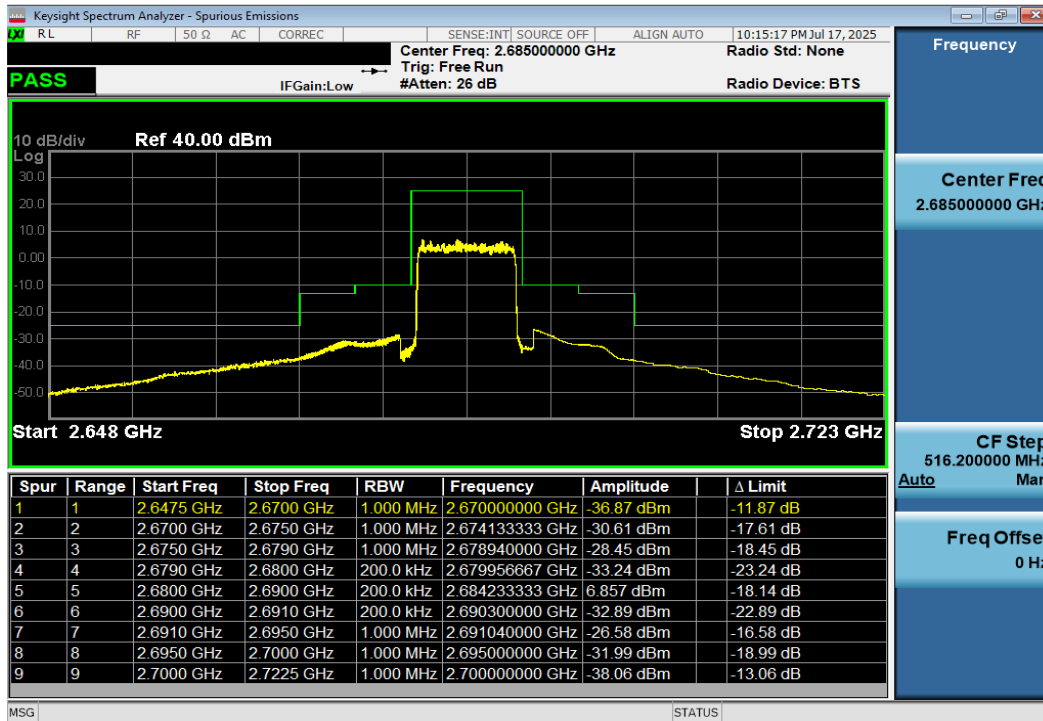


Plot 7-121. Mid Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM QPSK – Full RB)

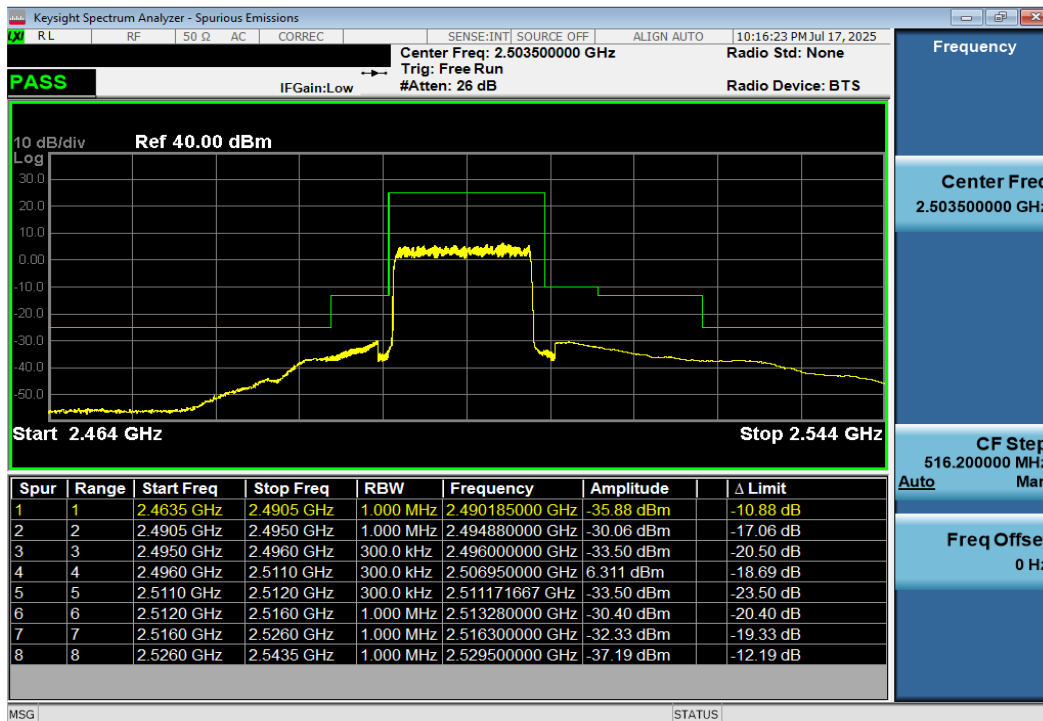
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-122. Upper Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM QPSK – Full RB)

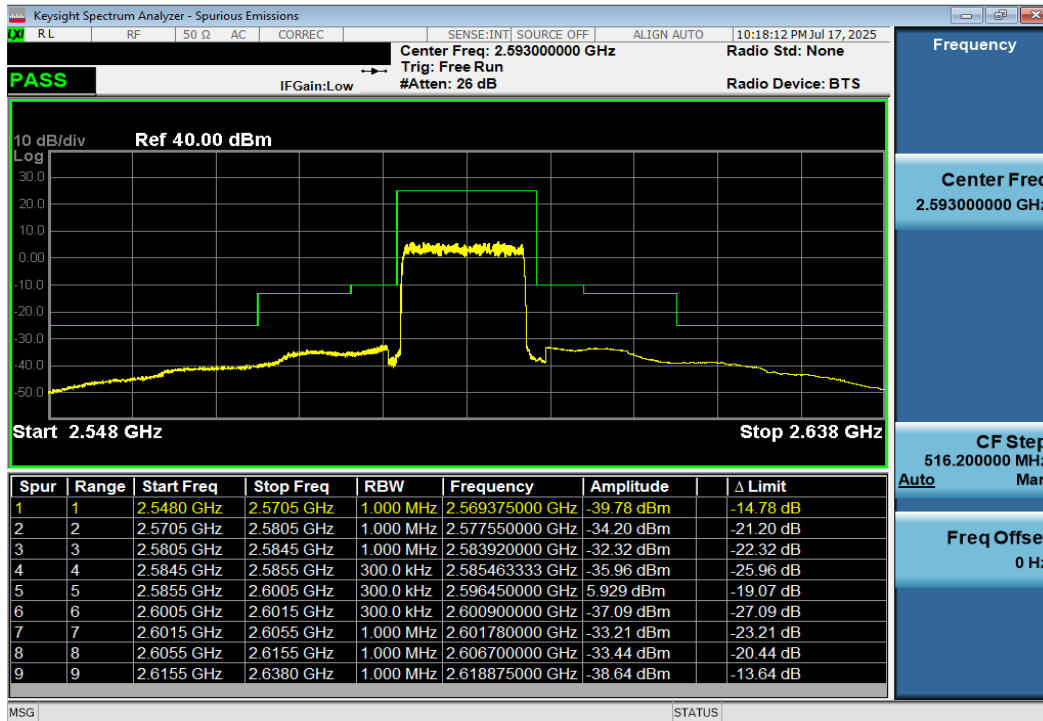


Plot 7-123. Lower Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

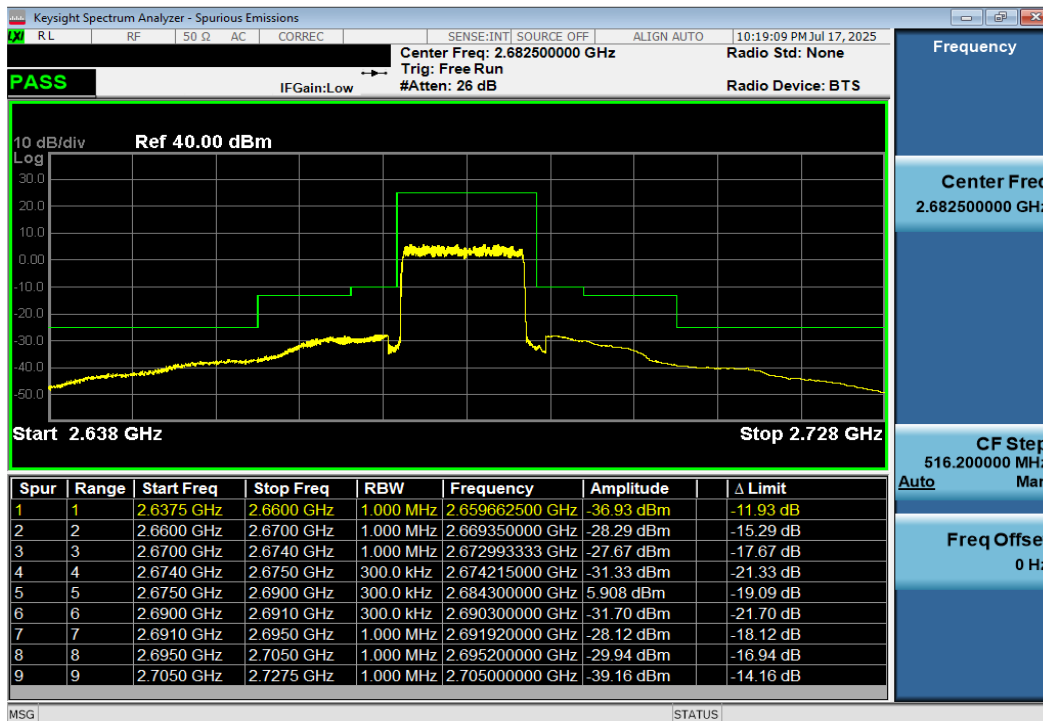
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-124. Mid Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

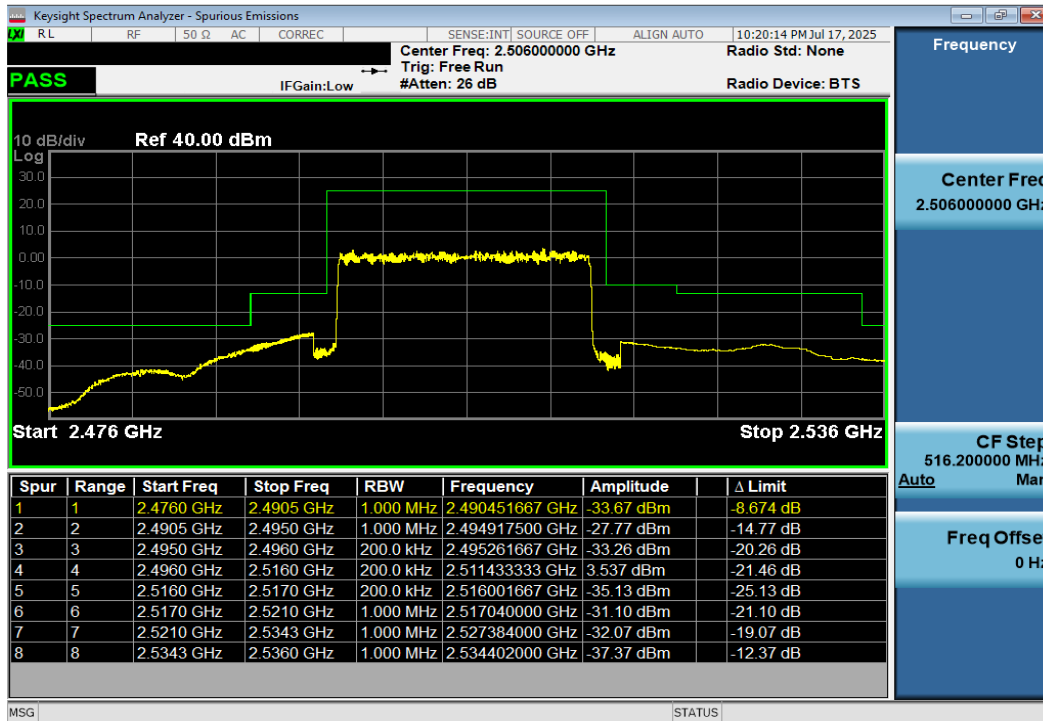


Plot 7-125. Upper Band Edge Plot (NR Band n41 - 15MHz DFT-s-OFDM QPSK – Full RB)

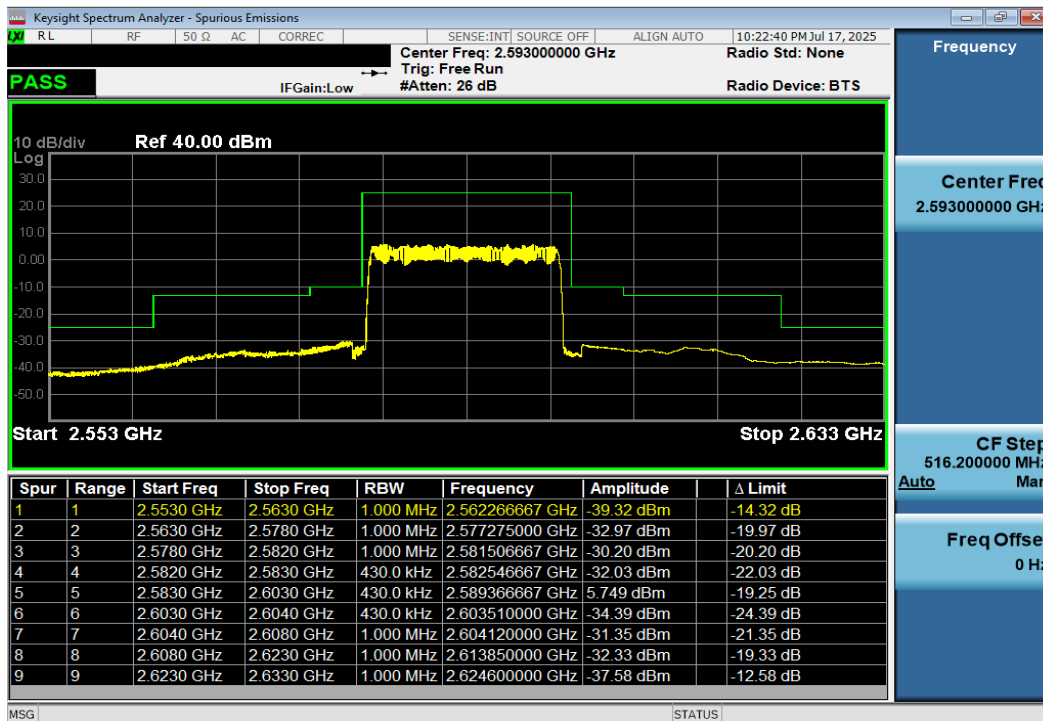
FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-126. Lower Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

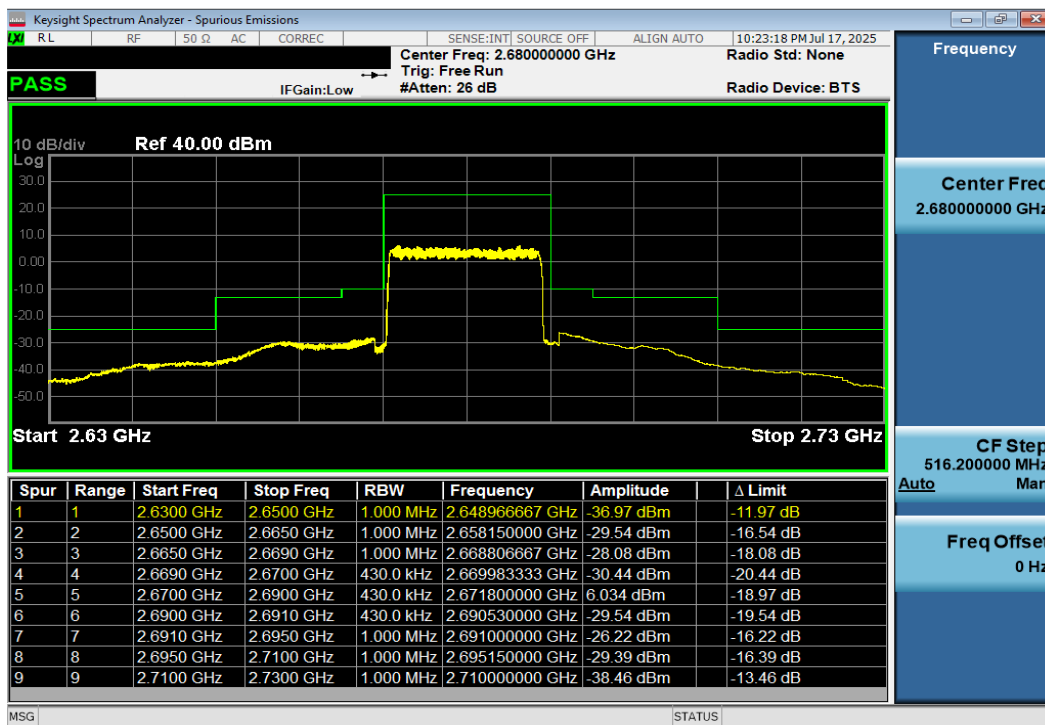


Plot 7-127. Mid Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-128. Upper Band Edge Plot (NR Band n41 - 20MHz DFT-s-OFDM QPSK – Full RB)

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## 7.5 Radiated Power (EIRP)

§27.50(a)(3), §27.50(h)(2)

### Test Overview

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

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

### Test Settings

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

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

Where:

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

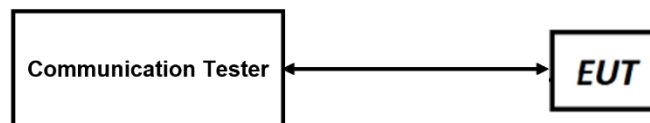
PMeas = measured transmitter output power or PSD, in dBW or dBm

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

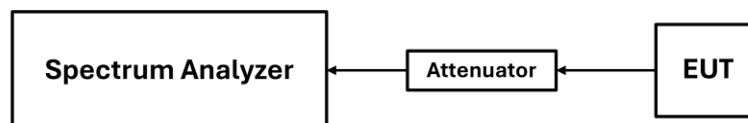
GT = gain of the transmitting antenna, in dBi (EIRP)

### Test Setup


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



**Figure 7-7. LTE EIRP Measurement Setup**




**Figure 7-8. FR1 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.

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## 7.5.1 Antenna FCM EIRP Data

### LTE Band 7

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2502.5	-6.30	1 / 0	25.16	<b>18.86</b>	76.913	33.01	-14.15
		2535.0	-6.30	1 / 0	24.84	18.54	71.450	33.01	-14.47
		2567.5	-6.30	1 / 25	25.20	<b>18.90</b>	77.625	33.01	-14.11
	16-QAM	2535.0	-6.30	1 / 25	24.18	<b>17.88</b>	61.376	33.01	-15.13
10 MHz	QPSK	2505.0	-6.30	1 / 50	25.14	<b>18.84</b>	76.560	33.01	-14.17
		2535.0	-6.30	1 / 25	25.05	18.75	74.989	33.01	-14.26
		2565.0	-6.30	1 / 0	24.75	18.45	69.984	33.01	-14.56
	16-QAM	2565.0	-6.30	1 / 25	24.09	<b>17.79</b>	60.117	33.01	-15.22
15 MHz	QPSK	2507.5	-6.30	1 / 75	25.06	18.76	75.162	33.01	-14.25
		2535.0	-6.30	1 / 0	25.08	18.78	75.509	33.01	-14.23
		2562.5	-6.30	1 / 0	25.20	<b>18.90</b>	77.625	33.01	-14.11
	16-QAM	2507.5	-6.30	1 / 37	24.16	<b>17.86</b>	61.094	33.01	-15.15
20 MHz	QPSK	2510.0	-6.30	1 / 100	24.97	18.67	73.621	33.01	-14.34
		2535.0	-6.30	1 / 100	25.20	<b>18.90</b>	77.625	33.01	-14.11
		2560.0	-6.30	1 / 100	25.13	18.83	76.384	33.01	-14.18
	16-QAM	2560.0	-6.30	1 / 0	24.16	<b>17.86</b>	61.094	33.01	-15.15

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


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## LTE Band 41

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	2498.5	-6.40	1 / 25	25.13	<b>18.73</b>	74.645	33.01	-14.28
		2593.0	-6.40	1 / 25	25.20	<b>18.80</b>	75.858	33.01	-14.21
		2687.5	-6.40	1 / 0	25.00	18.60	72.444	33.01	-14.41
	16-QAM	2498.5	-6.40	1 / 12	24.20	17.80	60.256	33.01	-15.21
10 MHz	QPSK	2501.0	-6.40	1 / 25	25.09	18.69	73.961	33.01	-14.32
		2593.0	-6.40	1 / 50	25.10	<b>18.70</b>	74.131	33.01	-14.31
		2685.0	-6.40	1 / 0	25.08	18.68	73.790	33.01	-14.33
	16-QAM	2593.0	-6.40	1 / 50	24.04	17.64	58.076	33.01	-15.37
15 MHz	QPSK	2503.5	-6.40	1 / 37	25.04	18.64	73.114	33.01	-14.37
		2593.0	-6.40	1 / 37	25.18	18.78	75.509	33.01	-14.23
		2682.5	-6.40	1 / 0	25.20	<b>18.80</b>	75.858	33.01	-14.21
	16-QAM	2682.5	-6.40	1 / 75	24.22	17.82	60.534	33.01	-15.19
20 MHz	QPSK	2506.0	-6.40	1 / 0	25.15	18.75	74.989	33.01	-14.26
		2593.0	-6.40	1 / 0	25.20	<b>18.80</b>	75.858	33.01	-14.21
		2680.0	-6.40	1 / 0	25.17	18.77	75.336	33.01	-14.24
	16-QAM	2506.0	-6.40	1 / 50	24.20	17.80	60.256	33.01	-15.21

**Table 7-3. Antenna FCM EIRP Data (LTE Band 41)**


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## NR Band n7

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	-6.30	1 / 0	25.04	<b>18.74</b>	74.817	33.01	-14.27
		2535.0	-6.30	1 / 0	25.03	18.73	74.645	33.01	-14.28
		2567.5	-6.30	1 / 24	25.20	<b>18.90</b>	77.625	33.01	-14.11
	QPSK	2502.5	-6.30	1 / 0	24.98	18.68	73.790	33.01	-14.33
		2535.0	-6.30	1 / 0	25.00	18.70	74.131	33.01	-14.31
		2567.5	-6.30	1 / 12	25.17	18.87	77.090	33.01	-14.14
	16-QAM	2567.5	-6.30	1 / 12	24.18	17.88	61.376	33.01	-15.13
	64-QAM	2567.5	-6.30	1 / 12	23.20	16.90	48.978	33.01	-16.11
10 MHz	$\pi/2$ BPSK	2505.0	-6.30	1 / 0	25.07	18.77	75.336	33.01	-14.24
		2535.0	-6.30	1 / 0	25.14	18.84	76.560	33.01	-14.17
		2565.0	-6.30	1 / 51	25.20	<b>18.90</b>	77.625	33.01	-14.11
	QPSK	2505.0	-6.30	1 / 25	25.20	<b>18.90</b>	77.625	33.01	-14.11
		2535.0	-6.30	1 / 25	25.18	18.88	77.268	33.01	-14.13
		2565.0	-6.30	1 / 0	25.08	18.78	75.509	33.01	-14.23
	16-QAM	2505.0	-6.30	1 / 0	24.20	17.90	61.660	33.01	-15.11
	64-QAM	2535.0	-6.30	1 / 0	23.19	16.89	48.865	33.01	-16.12
15 MHz	$\pi/2$ BPSK	2507.5	-6.30	1 / 39	25.07	18.77	75.336	33.01	-14.24
		2535.0	-6.30	1 / 78	25.18	18.88	77.268	33.01	-14.13
		2562.5	-6.30	1 / 0	25.15	18.85	76.736	33.01	-14.16
	QPSK	2507.5	-6.30	1 / 39	25.20	<b>18.90</b>	77.625	33.01	-14.11
		2535.0	-6.30	1 / 39	25.18	18.88	77.268	33.01	-14.13
		2562.5	-6.30	1 / 39	25.12	18.82	76.208	33.01	-14.19
	16-QAM	2507.5	-6.30	1 / 39	24.26	17.96	62.517	33.01	-15.05
	64-QAM	2507.5	-6.30	1 / 0	23.29	16.99	50.003	33.01	-16.02
20 MHz	$\pi/2$ BPSK	2510.0	-6.30	1 / 52	25.20	<b>18.90</b>	77.625	33.01	-14.11
		2535.0	-6.30	1 / 52	25.18	18.88	77.268	33.01	-14.13
		2560.0	-6.30	1 / 0	25.16	18.86	76.913	33.01	-14.15
	QPSK	2510.0	-6.30	1 / 105	25.14	18.84	76.560	33.01	-14.17
		2535.0	-6.30	1 / 0	25.15	18.85	76.736	33.01	-14.16
		2560.0	-6.30	1 / 52	25.10	18.80	75.858	33.01	-14.21
	16-QAM	2510.0	-6.30	1 / 52	24.11	17.81	60.395	33.01	-15.20
	64-QAM	2510.0	-6.30	1 / 0	23.19	16.89	48.865	33.01	-16.12

**Table 7-4. Antenna FCM EIRP Data (NR Band n7)**

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## NR Band n41

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
10MHz	$\pi/2$ BPSK	2501.0	-6.40	1 / 23	25.20	<b>18.80</b>	75.858	33.01	-14.21
		2593.0	-6.40	1 / 0	25.02	18.62	72.778	33.01	-14.39
		2685.0	-6.40	1 / 0	25.07	18.67	73.621	33.01	-14.34
	QPSK	2501.0	-6.40	1 / 12	25.09	<b>18.69</b>	73.961	33.01	-14.32
		2593.0	-6.40	1 / 23	25.02	18.62	72.778	33.01	-14.39
		2685.0	-6.40	1 / 0	24.92	18.52	71.121	33.01	-14.49
	16-QAM	2593.0	-6.40	1 / 23	24.07	17.67	58.479	33.01	-15.34
	64-QAM	2685.0	-6.40	1 / 0	23.19	16.79	47.753	33.01	-16.22
15MHz	$\pi/2$ BPSK	2503.5	-6.40	1 / 37	24.94	18.54	71.450	33.01	-14.47
		2593.0	-6.40	1 / 18	25.13	18.73	74.645	33.01	-14.28
		2682.5	-6.40	1 / 0	25.20	<b>18.80</b>	75.858	33.01	-14.21
	QPSK	2503.5	-6.40	1 / 0	25.20	<b>18.80</b>	75.858	33.01	-14.21
		2593.0	-6.40	1 / 0	25.16	18.76	75.162	33.01	-14.25
		2682.5	-6.40	1 / 18	24.99	18.59	72.277	33.01	-14.42
	16-QAM	2682.5	-6.40	1 / 18	24.16	17.76	59.704	33.01	-15.25
	64-QAM	2682.5	-6.40	1 / 37	23.25	16.85	48.417	33.01	-16.16
20MHz	$\pi/2$ BPSK	2506.0	-6.40	1 / 50	25.15	<b>18.75</b>	74.989	33.01	-14.26
		2593.0	-6.40	1 / 25	25.03	18.63	72.946	33.01	-14.38
		2680.0	-6.40	1 / 50	24.96	18.56	71.779	33.01	-14.45
	QPSK	2506.0	-6.40	1 / 0	24.86	18.46	70.146	33.01	-14.55
		2593.0	-6.40	1 / 50	24.96	18.56	71.779	33.01	-14.45
		2680.0	-6.40	1 / 50	25.14	18.74	74.817	33.01	-14.27
	16-QAM	2506.0	-6.40	1 / 25	24.16	17.76	59.704	33.01	-15.25
	64-QAM	2593.0	-6.40	1 / 50	23.11	16.71	46.881	33.01	-16.30

**Table 7-5. Antenna FCM EIRP Data (NR Band n41)**

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## 7.6 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

### Test Overview


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

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

### Test Settings

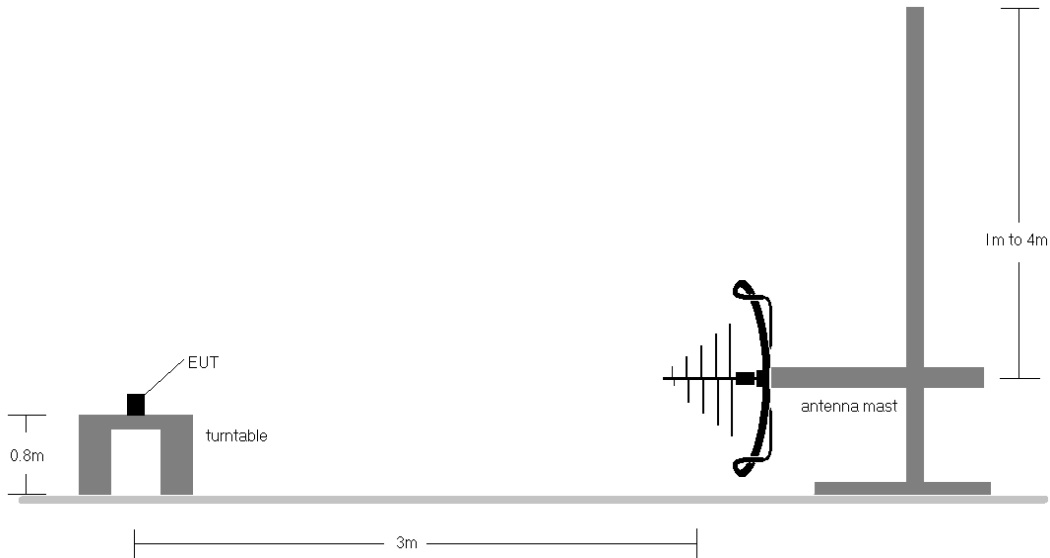
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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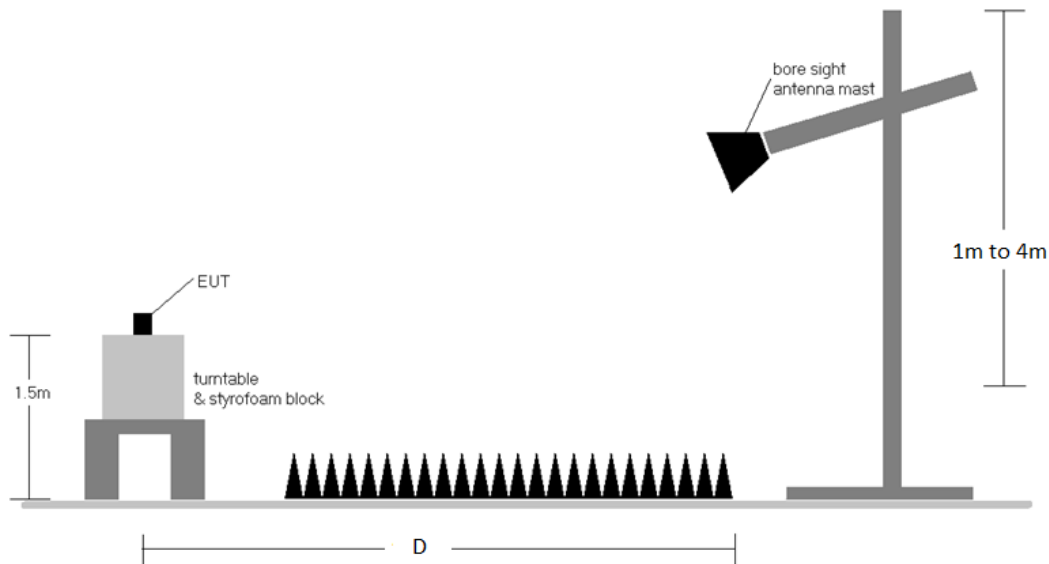
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**Test Setup**


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



**Figure 7-9. Test Instrument & Measurement Setup < 1GHz**




**Figure 7-10. Test Instrument & Measurement Setup >1 GHz**

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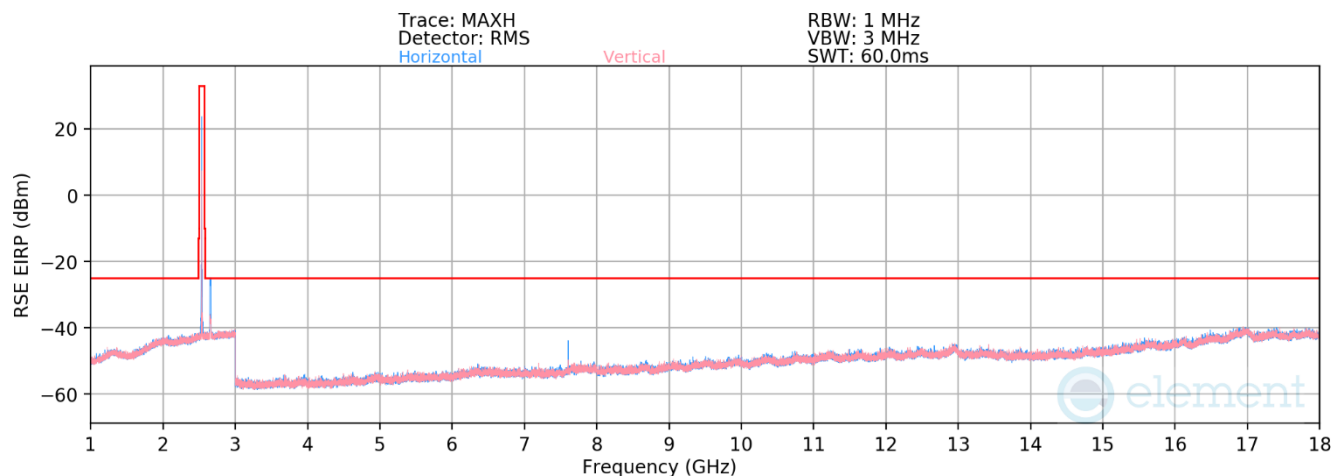
## Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
  - a.  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b.  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
2. 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. Emissions below 18GHz were measured at a 3 meter 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. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

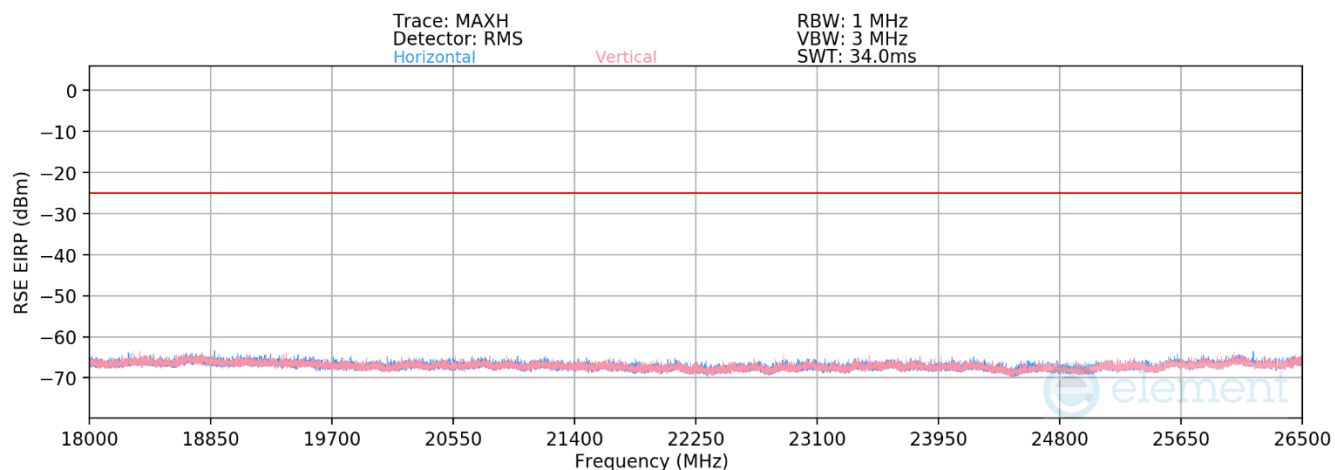
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## LTE Band 7



**Plot 7-129. Antenna FCM Radiated Spurious Plot 1-18GHz (LTE Band 7)**



**Plot 7-130. Antenna FCM Radiated Spurious Emission above 18GHz (LTE Band 7)**

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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.08	8.31	34.23	-61.03	-25.00	-36.03
7530.0	V	110	224	-75.34	11.23	42.89	-52.37	-25.00	-27.37
10040.0	V	-	-	-82.51	14.05	38.53	-56.72	-25.00	-31.72
12550.0	V	-	-	-83.24	18.21	41.97	-53.29	-25.00	-28.29
15060.0	V	-	-	-84.53	20.68	43.16	-52.10	-25.00	-27.10

**Table 7-6. Radiated Spurious Data (LTE Band 7 – Low Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.34	8.46	34.12	-61.14	-25.00	-36.14
7605.0	H	100	27	-67.74	11.29	50.55	-44.70	-25.00	-19.70
10140.0	V	-	-	-82.08	14.06	38.97	-56.29	-25.00	-31.29
12675.0	V	-	-	-83.56	18.39	41.83	-53.43	-25.00	-28.43
15210.0	V	-	-	-84.42	20.70	43.28	-51.98	-25.00	-26.98

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

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-81.21	8.37	34.16	-61.10	-25.00	-36.10
7680.00	V	-	-	-80.65	11.81	38.15	-57.11	-25.00	-32.11
10240.00	V	-	-	-82.42	14.19	38.76	-56.49	-25.00	-31.49

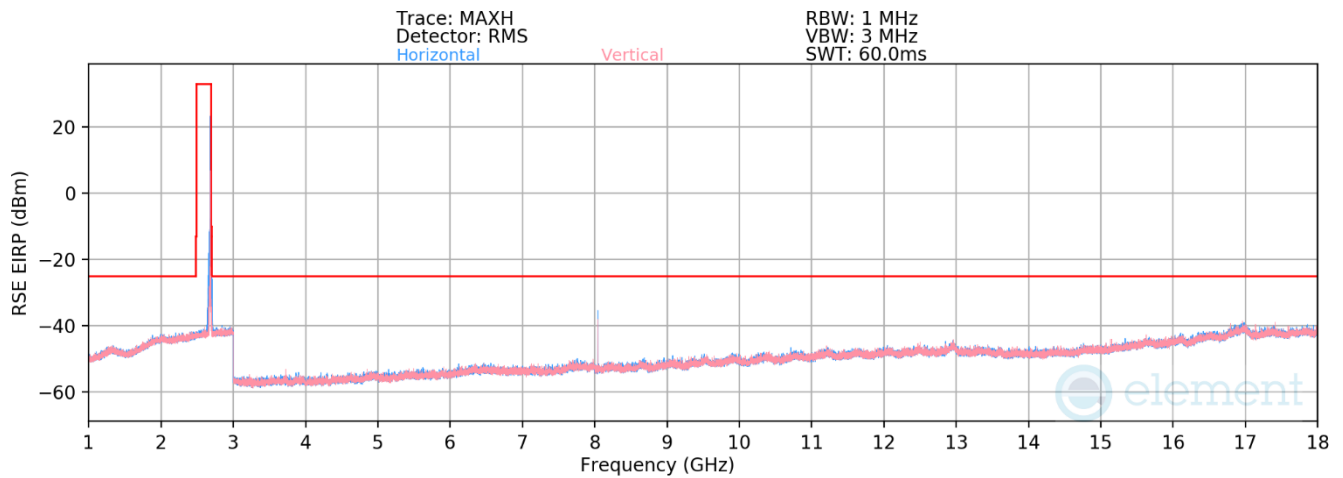
**Table 7-8. Radiated Spurious Data (LTE Band 7 – High Channel)**

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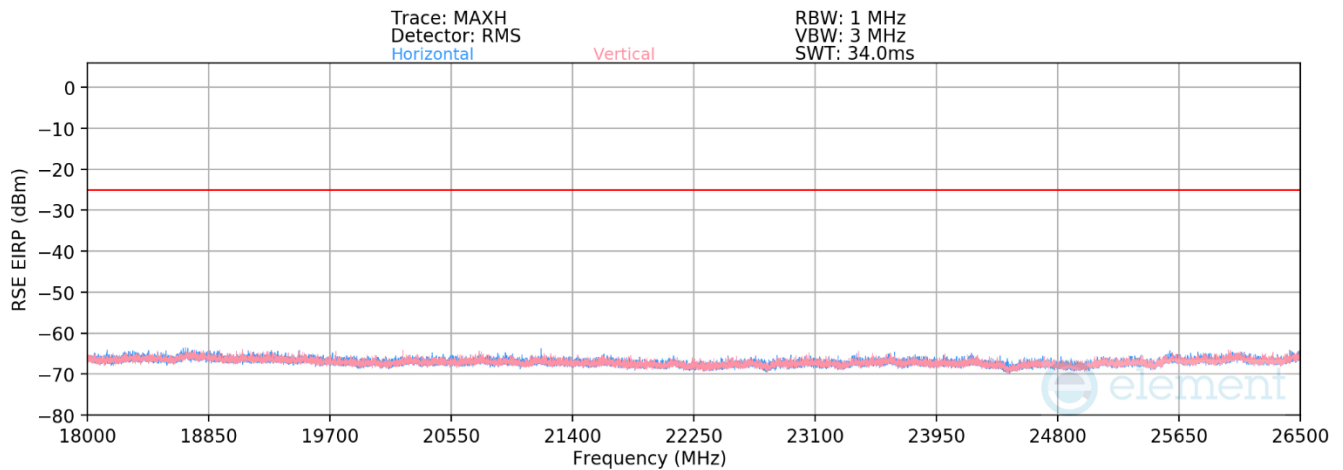
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## LTE Band 41



**Plot 7-131. Antenna FCM Radiated Spurious Plot 1-18GHz (LTE Band 41)**



**Plot 7-132. Antenna FCM Radiated Spurious Emission above 18GHz (LTE Band 41)**

FCC ID: BCG-A3335	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-80.45	8.31	34.86	-60.40	-25.00	-35.40
7518.0	V	101	317	-78.21	11.29	40.07	-55.18	-25.00	-30.18
10024.0	H	-	-	-81.82	14.04	39.22	-56.03	-25.00	-31.03
12530.0	V	-	-	-83.47	18.81	42.34	-52.92	-25.00	-27.92
15036.0	H	-	-	-83.71	20.35	43.64	-51.62	-25.00	-26.62

**Table 7-9. Radiated Spurious Data (LTE Band 41 – Low Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-80.75	8.71	34.96	-60.30	-25.00	-35.30
7779.0	H	108	229	-78.27	11.27	40.00	-55.25	-25.00	-30.25
10372.0	H	-	-	-81.84	15.11	40.27	-54.99	-25.00	-29.99
12965.0	H	-	-	-83.11	20.26	44.15	-51.11	-25.00	-26.11
15558.0	H	-	-	-84.30	21.78	44.48	-50.77	-25.00	-25.77

**Table 7-10. Radiated Spurious Data (LTE Band 41 – Mid Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

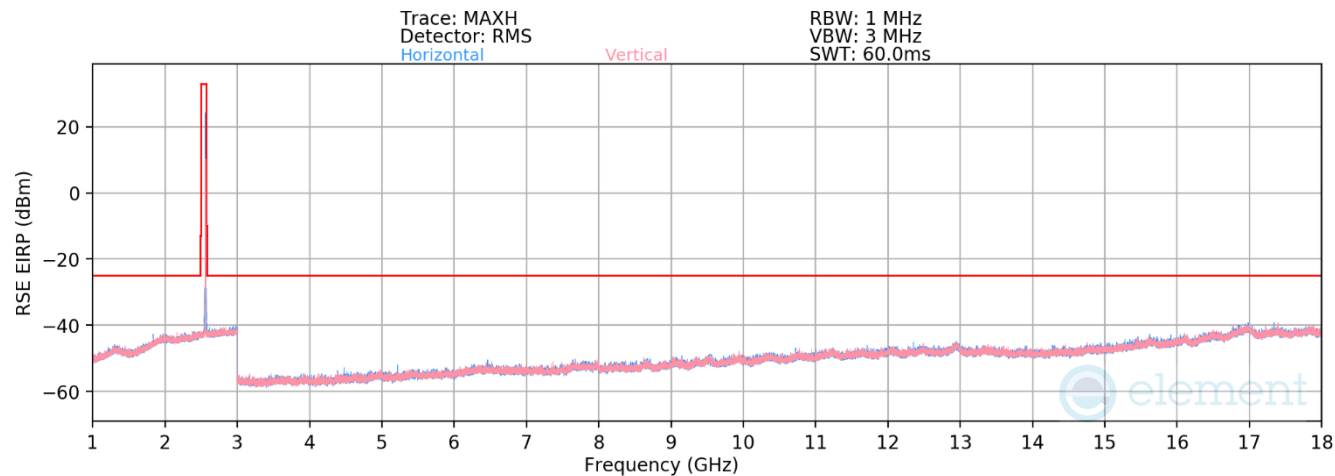
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-80.68	8.70	35.02	-60.23	-25.00	-35.23
8040.0	H	291	283	-60.69	11.32	57.63	-37.62	-25.00	-12.62
10720.0	V	-	-	-81.53	14.84	40.32	-54.94	-25.00	-29.94
13400.0	V	-	-	-83.30	18.78	42.48	-52.78	-25.00	-27.78
16080.0	V	-	-	-84.72	23.59	45.87	-49.39	-25.00	-24.39

**Table 7-11. Radiated Spurious Data (LTE Band 41 – High Channel)**

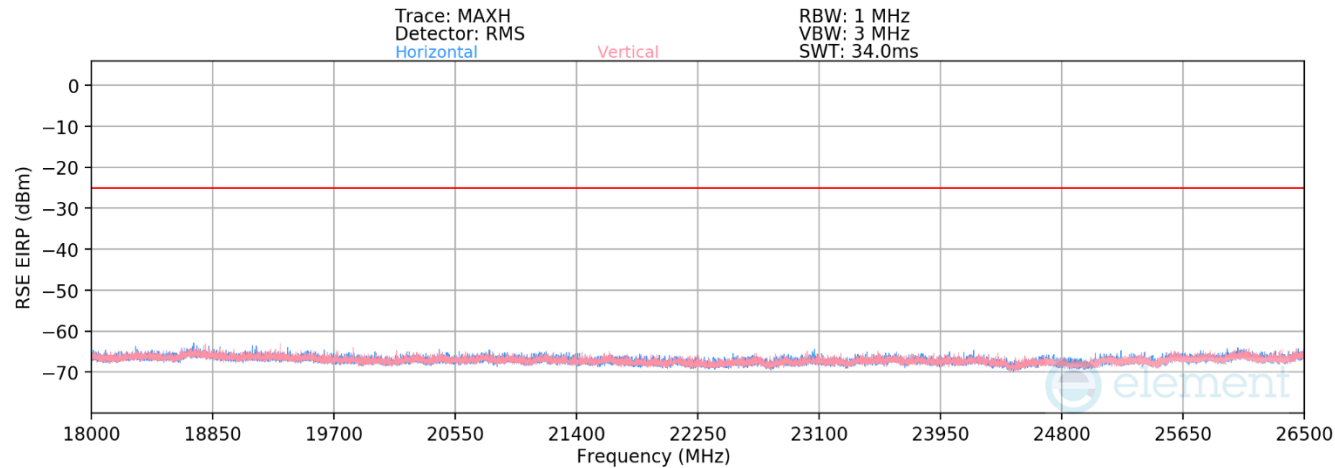
FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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**NR Band n7**



**Plot 7-133. Antenna FCM Radiated Spurious Plot 1-18GHz (NR Band n7)**



**Plot 7-134. Antenna FCM Radiated Spurious Emission above 18GHz (NR Band n7)**

FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-81.34	8.69	34.35	-60.91	-25.00	-35.91
7530.0	V	-	-	-81.90	11.23	36.33	-58.92	-25.00	-33.92
10040.0	V	-	-	-82.34	14.05	38.71	-56.55	-25.00	-31.55

**Table 7-12. Radiated Spurious Data (NR Band n7 – Low Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-81.16	8.46	34.30	-60.96	-25.00	-35.96
7605.0	V	-	-	-81.73	11.38	36.66	-58.60	-25.00	-33.60
10140.0	V	-	-	-81.83	13.66	38.83	-56.43	-25.00	-31.43

**Table 7-13. Radiated Spurious Data (NR Band n7 – Mid Channel)**

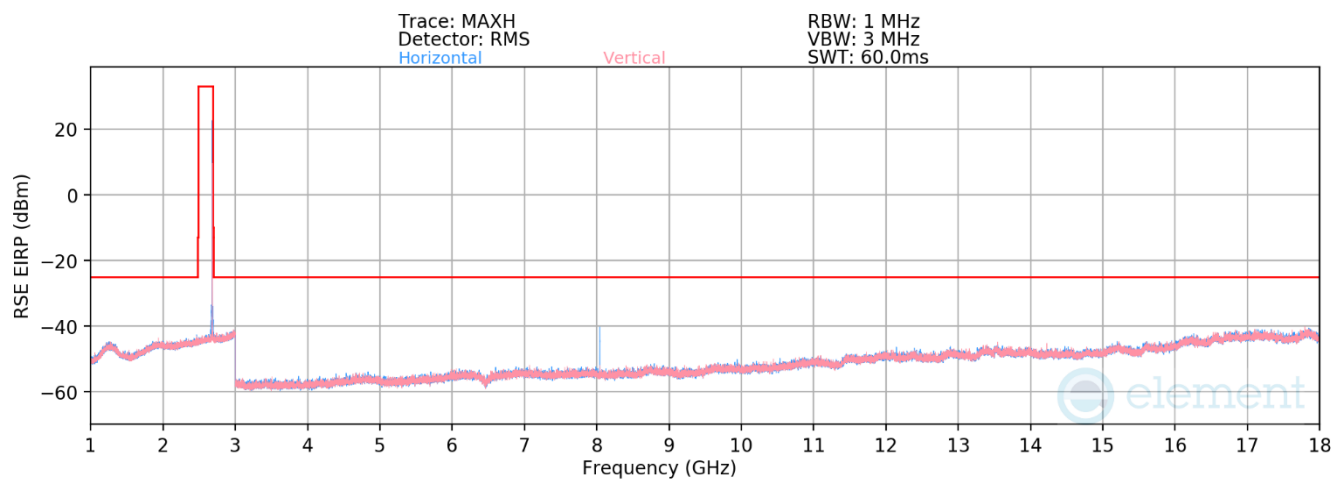
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	-	-	-81.16	17.71	43.55	-51.71	-25.00	-26.71
7680.0	V	-	-	-81.99	20.68	45.69	-49.57	-25.00	-24.57
10240.0	V	-	-	-82.39	23.52	48.13	-47.13	-25.00	-22.13

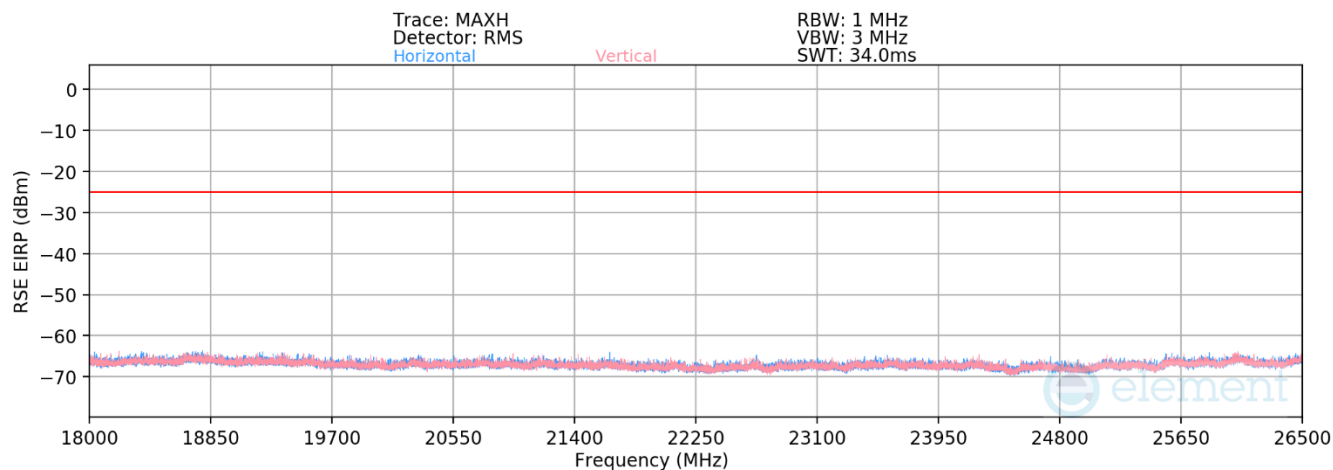
**Table 7-14. Radiated Spurious Data (NR Band n7 – High Channel)**

FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## NR Band n41



**Plot 7-135. Antenna FCM Radiated Spurious Plot 1-18GHz (NR Band n41)**



**Plot 7-136. Antenna FCM Radiated Spurious Emission above 18GHz (NR Band n41)**

FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270032-04.BCG	Test Dates: 4/2/2025 - 7/31/2025	EUT Type: Watch	Page 103 of 112

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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.0	H	-	-	-80.78	8.69	34.90	-60.36	-25.00	-35.36
7518.0	H	-	-	-81.86	11.69	36.83	-58.43	-25.00	-33.43
10024.0	H	-	-	-81.75	14.04	39.29	-55.97	-25.00	-30.97

**Table 7-15. Radiated Spurious Data (NR Band n41 – Low Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.0	V	-	-	-80.78	8.71	34.93	-60.33	-25.00	-35.33
7779.0	V	-	-	-80.94	11.19	37.25	-58.00	-25.00	-33.00
10372.0	V	-	-	-81.67	15.12	40.45	-54.81	-25.00	-29.81
12965.0	V	-	-	-83.26	20.26	44.00	-51.26	-25.00	-26.26

**Table 7-16. Radiated Spurious Data (NR Band n41 – Mid Channel)**

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
5360.0	H	-	-	-79.29	5.93	33.64	-61.62	-25.00	-36.62
8040.0	H	100	245	-69.59	8.66	46.07	-49.19	-25.00	-24.19
10720.0	H	-	-	-80.92	12.32	38.40	-56.86	-25.00	-31.86
13400.0	H	-	-	-82.92	17.31	41.39	-53.87	-25.00	-28.87
16080.0	H	-	-	-83.17	21.03	44.86	-50.40	-25.00	-25.40

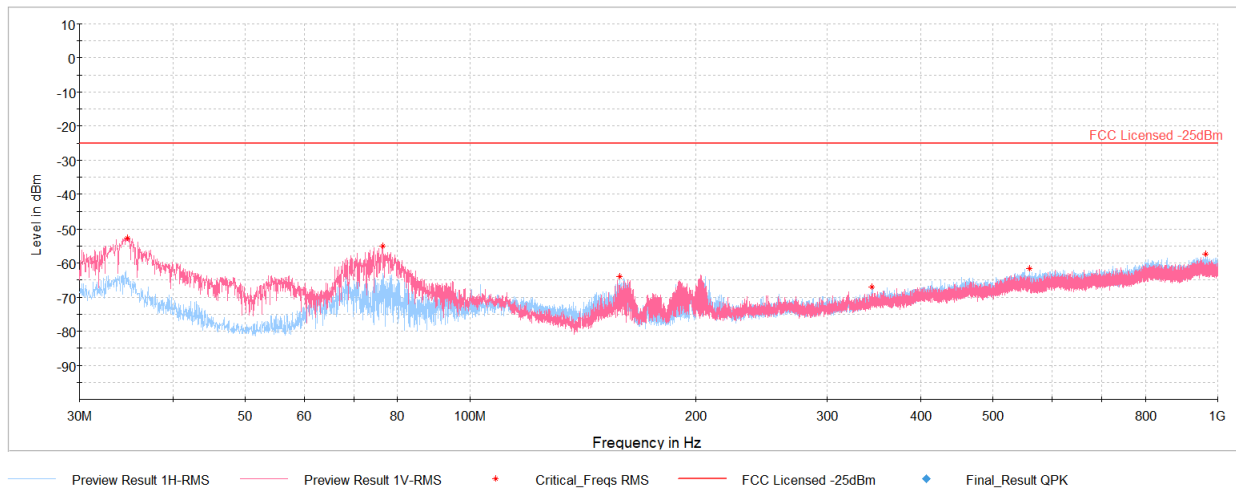
**Table 7-17. Radiated Spurious Data (NR Band n41 – High Channel)**

FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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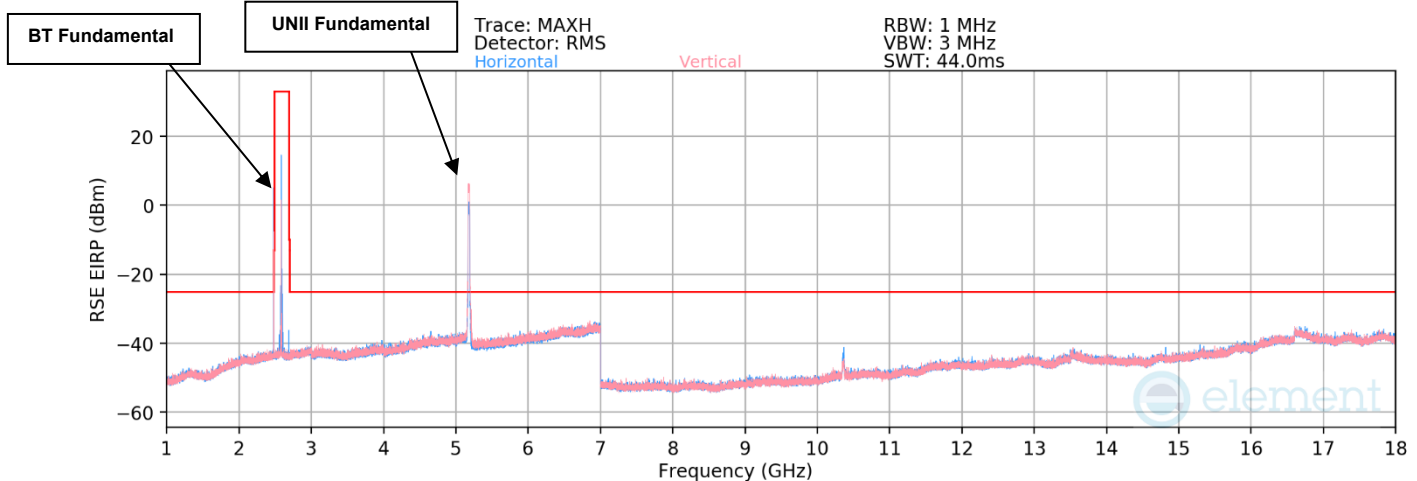
## 7.6.1 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE (Band 41)	UNII
Antenna	FCM	FCM	FCM
Channel	78	40620	36
Operating Frequency (MHz)	2480	2593	5180
Mode/Modulation	GFSK ePA	QPSK/1RB/10MHz	802.11n


Table 7-18. Worst Case Simultaneous Transmission Configuration



Plot 7-137. Radiated Spurious Emissions - Simultaneous Transmission 30MHz – 1GHz

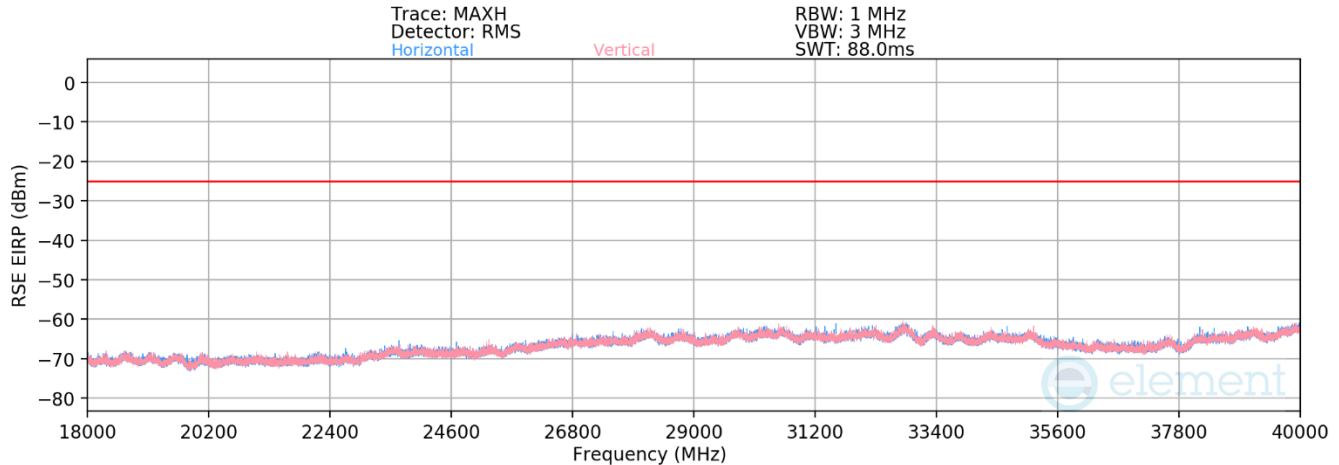


Plot 7-138. Radiated Spurious Emissions - Simultaneous Transmission 1GHz – 18GHz

FCC ID: BCG-A3335		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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**Plot 7-139. Radiated Spurious Emissions - Simultaneous Transmission Above 18GHz**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Peak	-	-	-	-69.50	15.88	53.38	73.98	-20.60
7440.00	Peak	-	-	-	-72.39	13.10	47.71	73.98	-26.27
12400.00	Peak	-	-	-	-75.16	19.93	51.77	73.98	-22.21


**Table 7-19. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	V	274	182	-68.73	17.41	55.68	68.20	-12.52
15540.00	Avg	-	-	-	-86.09	25.95	46.86	53.98	-7.12
15540.00	Peak	-	-	-	-75.03	25.88	57.85	73.98	-16.13

**Table 7-20. UHF Harmonics Emissions Measurements in Simultaneous Transmission Mode**

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]
7767.00	V	266	326	-81.28	13.38	39.10	-56.16	-25.00	-31.16
10356.00	-	-	-	-84.91	16.35	38.44	-56.82	-25.00	-31.82
12945.00	-	-	-	-86.19	21.14	41.95	-53.31	-25.00	-28.31
15534.00	-	-	-	-87.39	24.79	44.40	-50.86	-25.00	-25.86
2371.00	-	-	-	-69.74	10.81	48.07	-47.19	-25.00	-22.19
2698.00	H	152	134	-62.04	18.34	63.30	-31.96	-25.00	-6.96

**Table 7-21. LTE-B41 Harmonics and Intermodulation Emissions Measurements in Simultaneous Transmission Mode**

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## 7.7 Frequency Stability / Temperature Variation

\$2.1055, \$27.54

### Test Overview and Limit

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

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

***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

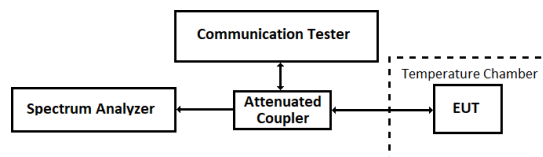
TIA-603-E-2016

### Test Settings

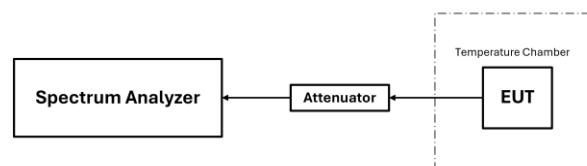
1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute 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

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.




**Figure 7-11. LTE Test Instrument & Measurement Setup**



**Figure 7-12. FR1 Test Instrument & Measurement Setup**

### Test Notes

1. None.

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## Frequency Stability / Temperature Variation

LTE Band 7				
Operating Band Lower Boundary (GHz)			2.500	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5008944	-0.0008944
		- 20	2.5009115	-0.0009115
		- 10	2.5008998	-0.0008998
		0	2.5008841	-0.0008841
		+ 10	2.5008928	-0.0008928
		+ 20 (Ref)	2.5008948	-0.0008948
		+ 30	2.5008898	-0.0008898
		+ 40	2.5009014	-0.0009014
		+ 50	2.5008856	-0.0008856
Battery Endpoint	3.40	+ 20	2.5008884	-0.0008884

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

LTE Band 7				
Operating Band Upper Boundary (GHz)			2.570	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5690881	-0.0009119
		- 20	2.5691708	-0.0008292
		- 10	2.5691385	-0.0008615
		0	2.5691114	-0.0008886
		+ 10	2.5690824	-0.0009176
		+ 20 (Ref)	2.5691087	-0.0008913
		+ 30	2.5690784	-0.0009216
		+ 40	2.5690876	-0.0009124
		+ 50	2.5691019	-0.0008981
Battery Endpoint	3.40	+ 20	2.5691121	-0.0008879

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

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## Frequency Stability / Temperature Variation

LTE Band 41				
Operating Band Lower Boundary (GHz)			2.496	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4969403	-0.0009403
		- 20	2.4969311	-0.0009311
		- 10	2.4969434	-0.0009434
		0	2.4969181	-0.0009181
		+ 10	2.4969219	-0.0009219
		+ 20 (Ref)	2.4969211	-0.0009211
		+ 30	2.4969227	-0.0009227
		+ 40	2.4969179	-0.0009179
		+ 50	2.4969179	-0.0009179
Battery Endpoint	3.40	+ 20	2.4969210	-0.0009210

Table 7-24. Lower Boundary LTE Band 41 Frequency Stability Data

LTE Band 41				
Operating Band Upper Boundary (GHz)			2.690	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6891204	-0.0008796
		- 20	2.6890818	-0.0009182
		- 10	2.6891167	-0.0008833
		0	2.6891143	-0.0008857
		+ 10	2.6890903	-0.0009097
		+ 20 (Ref)	2.6890865	-0.0009135
		+ 30	2.6890711	-0.0009289
		+ 40	2.6890853	-0.0009147
		+ 50	2.6891170	-0.0008830
Battery Endpoint	3.40	+ 20	2.6890763	-0.0009237

Table 7-25. Upper Boundary LTE Band 41 Frequency Stability Data

FCC ID: BCG-A3335	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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## Frequency Stability / Temperature Variation

NR Band n7				
		Operating Band Lower Boundary (GHz)		2.500
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5005561	-0.0005561
		- 20	2.5005583	-0.0005583
		- 10	2.5005602	-0.0005602
		0	2.5005676	-0.0005676
		+ 10	2.5005588	-0.0005588
		+ 20 (Ref)	2.5005521	-0.0005521
		+ 30	2.5005408	-0.0005408
		+ 40	2.5005107	-0.0005107
		+ 50	2.5005213	-0.0005213
Battery Endpoint	3.40	+ 20	2.5003443	-0.0003443

Table 7-26. Lower Boundary NR Band n7 Frequency Stability Data

NR Band n7				
		Operating Band Upper Boundary (GHz)		2.570
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5694771	-0.0005229
		- 20	2.5694691	-0.0005309
		- 10	2.5694585	-0.0005415
		0	2.5694485	-0.0005515
		+ 10	2.5694484	-0.0005516
		+ 20 (Ref)	2.5694429	-0.0005571
		+ 30	2.5694624	-0.0005376
		+ 40	2.5694814	-0.0005186
		+ 50	2.5694773	-0.0005227
Battery Endpoint	3.40	+ 20	2.5696682	-0.0003318

Table 7-27. Upper Boundary NR Band n7 Frequency Stability Data

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## Frequency Stability / Temperature Variation

NR Band n41				
		Operating Band Lower Boundary (GHz)		2.496
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4969702	-0.0009702
		- 20	2.4969649	-0.0009649
		- 10	2.4969532	-0.0009532
		0	2.4969447	-0.0009447
		+ 10	2.4969345	-0.0009345
		+ 20 (Ref)	2.4969481	-0.0009481
		+ 30	2.4969340	-0.0009340
		+ 40	2.4968990	-0.0008990
		+ 50	2.4968948	-0.0008948
Battery Endpoint	3.40	+ 20	2.4966334	-0.0006334

Table 7-28. Lower Boundary NR Band n41 Frequency Stability Data

NR Band n41				
		Operating Band Upper Boundary (GHz)		2.690
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6890681	-0.0009319
		- 20	2.6890674	-0.0009326
		- 10	2.6890695	-0.0009305
		0	2.6890681	-0.0009319
		+ 10	2.6890654	-0.0009346
		+ 20 (Ref)	2.6890774	-0.0009226
		+ 30	2.6890812	-0.0009188
		+ 40	2.6890949	-0.0009051
		+ 50	2.6890953	-0.0009047
Battery Endpoint	3.40	+ 20	2.6894039	-0.0005961


Table 7-29. Upper Boundary NR Band n41 Frequency Stability Data

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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-A3335** complies with all the requirements of Part 27 of the FCC rules.

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