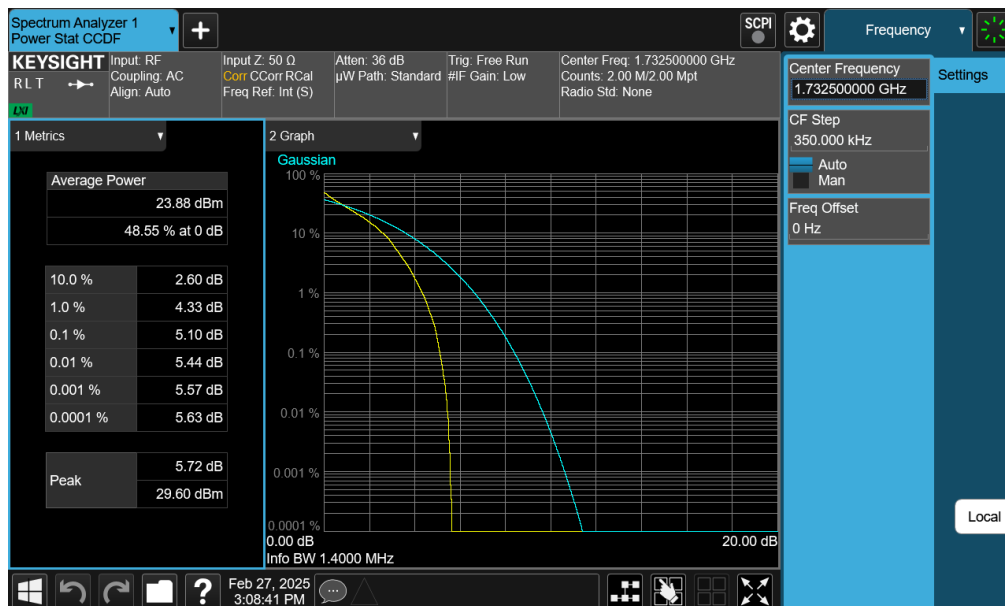
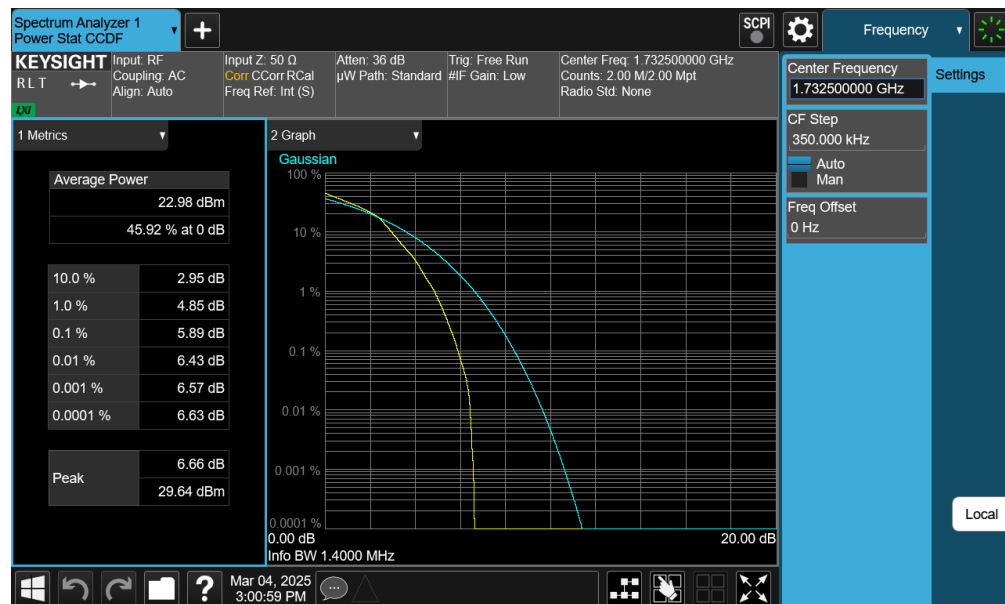



LTE Band 4



Plot 7-254. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)

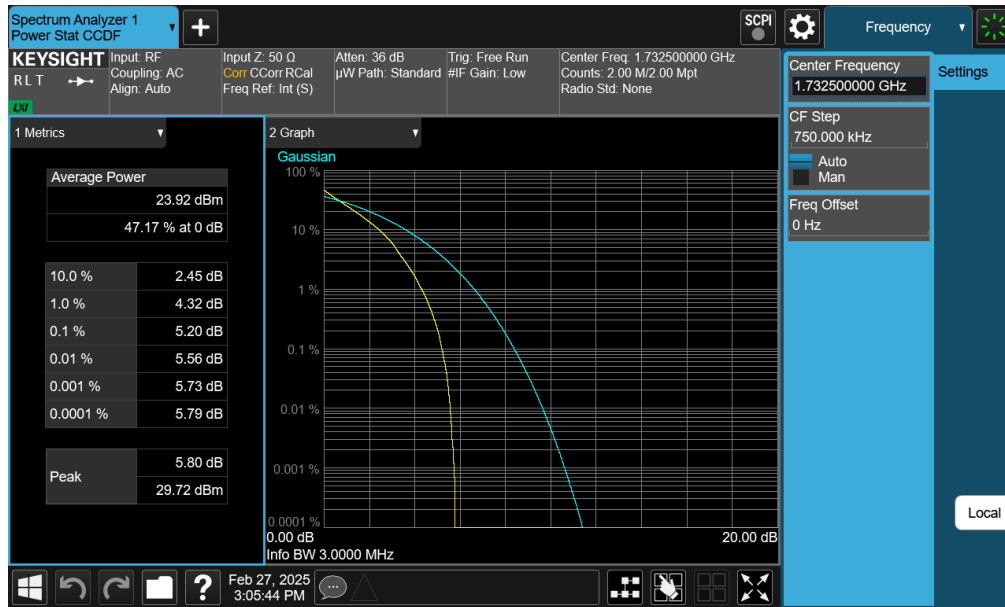


Plot 7-255. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

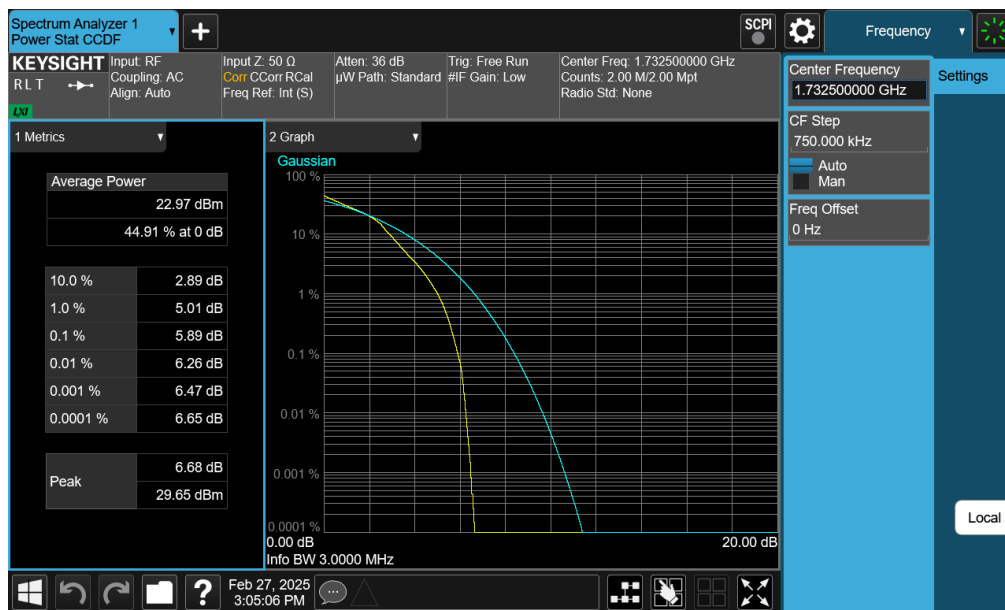
FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-256. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)



Plot 7-257. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

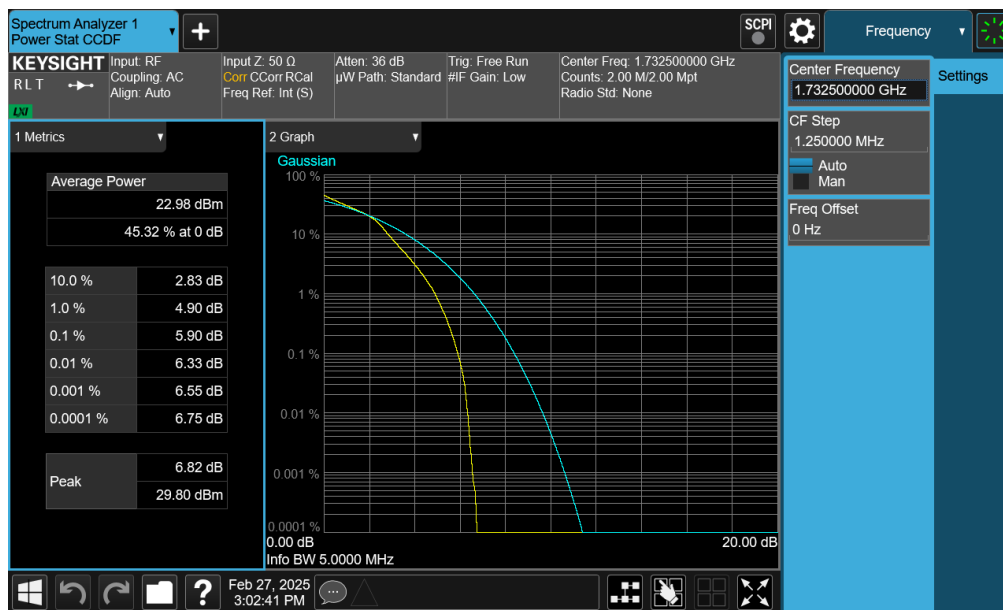
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 154 of 202

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Plot 7-258. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)

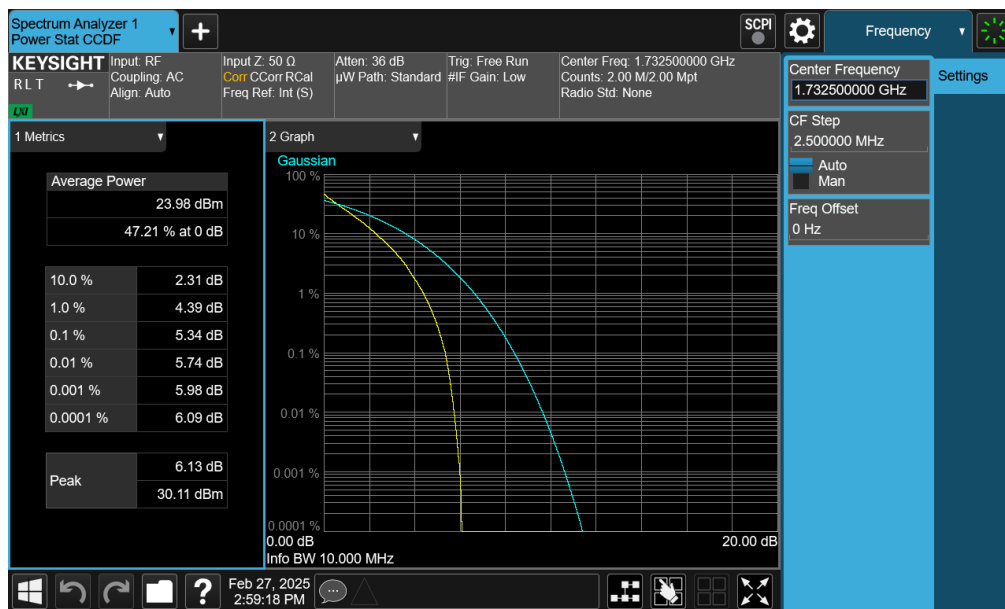


Plot 7-259. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

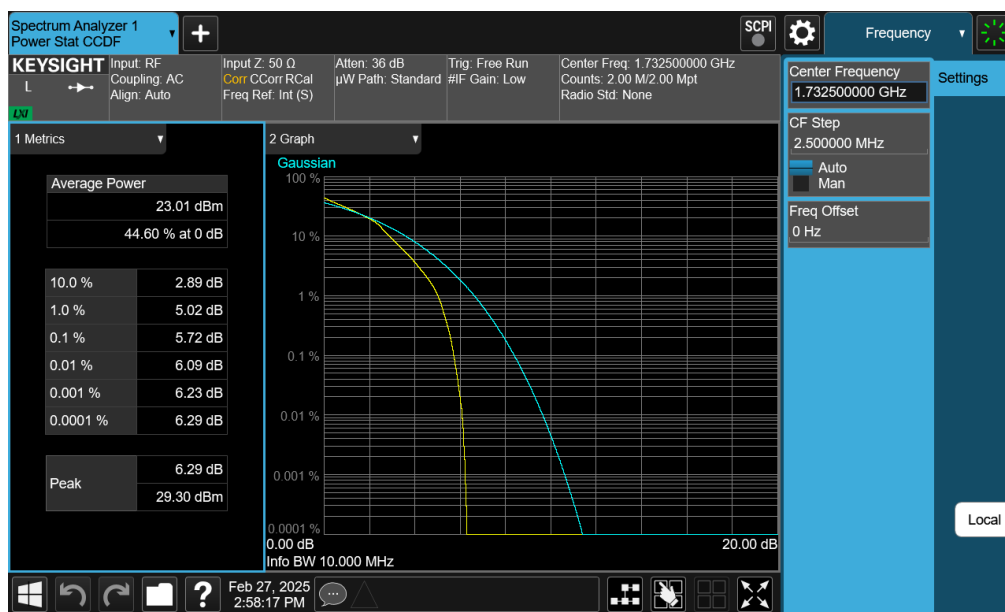
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-260. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)

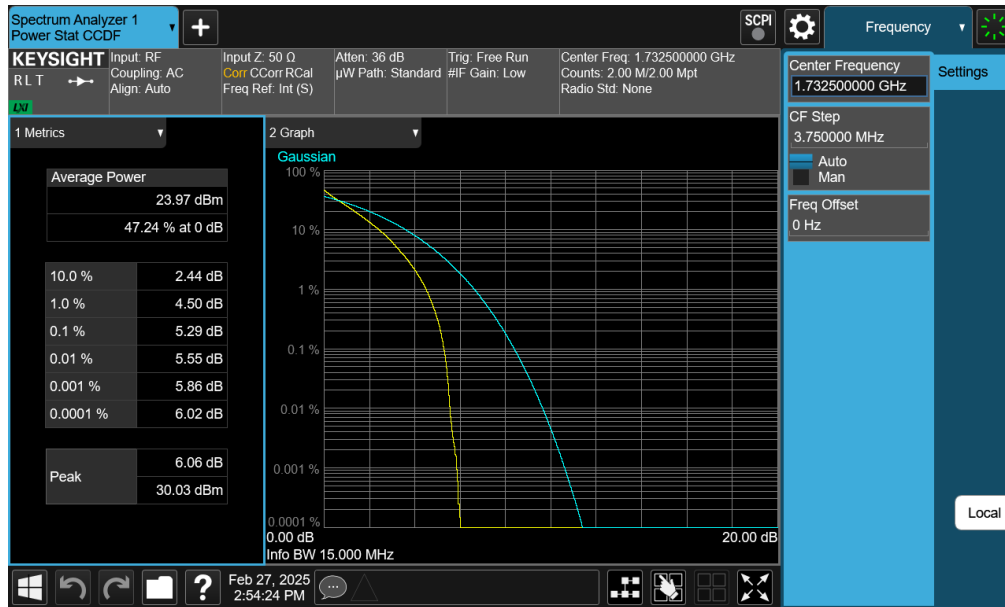


Plot 7-261. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

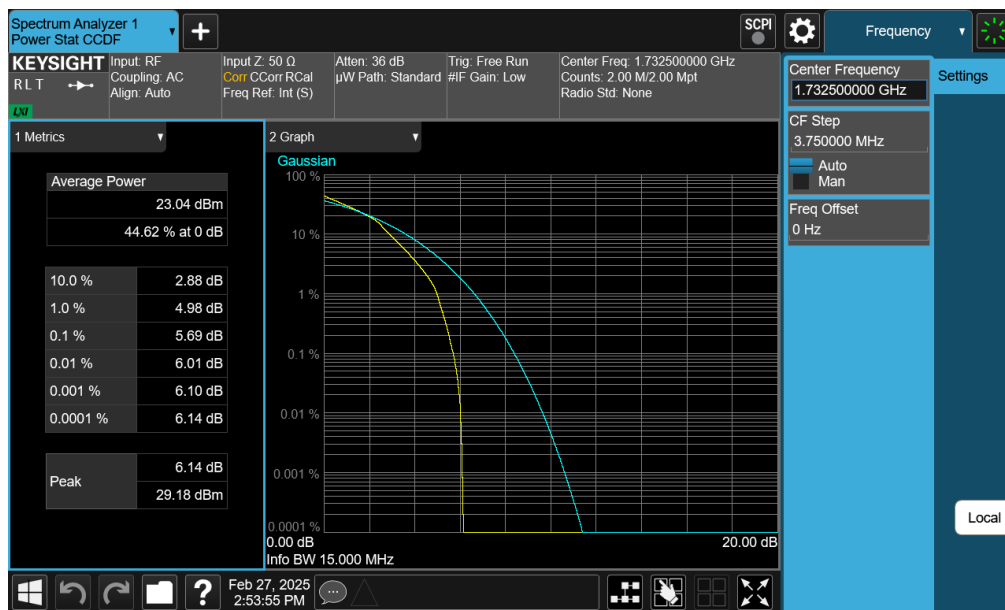
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 156 of 202

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Plot 7-262. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)

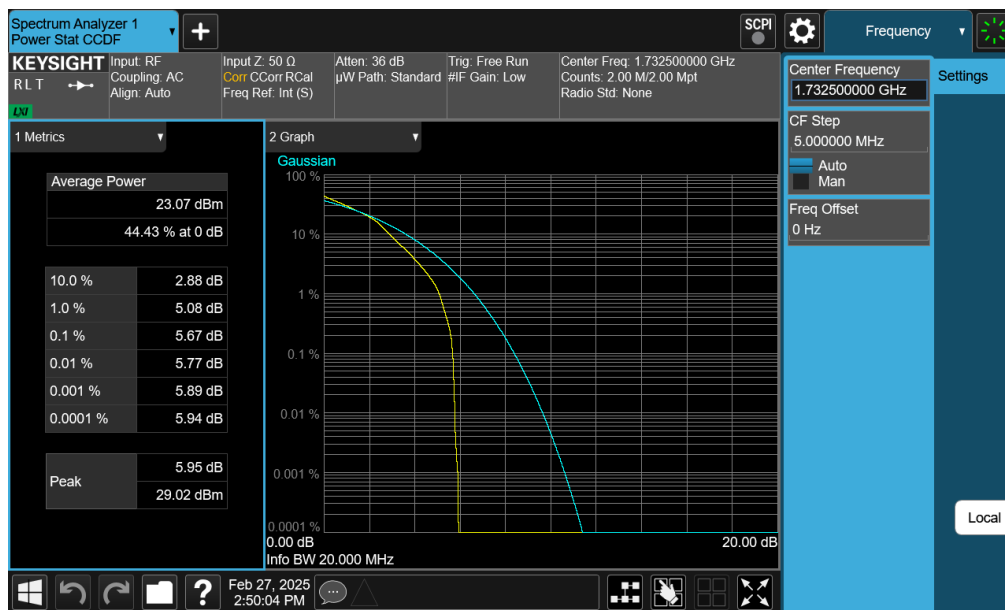
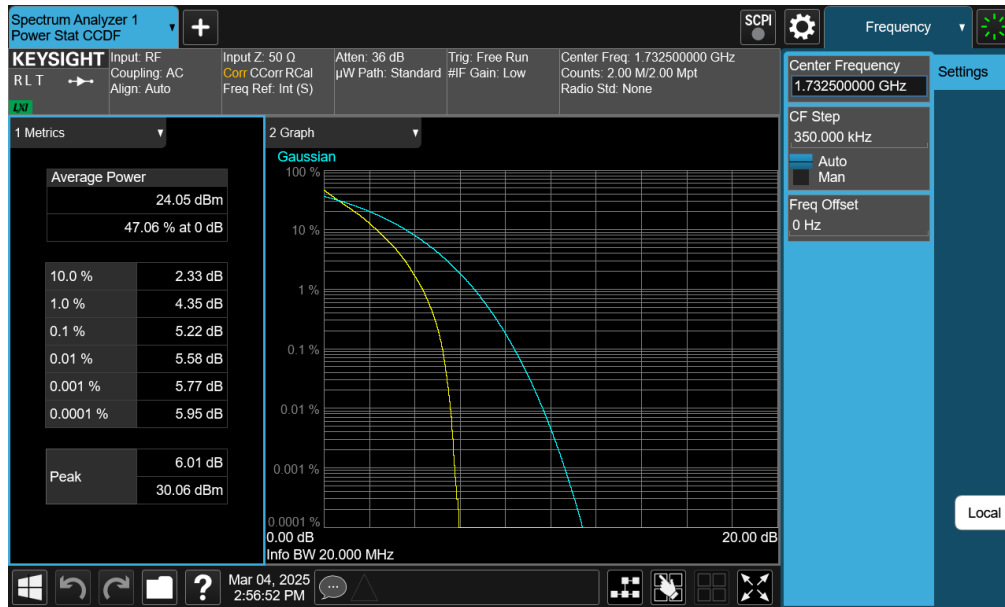



Plot 7-263. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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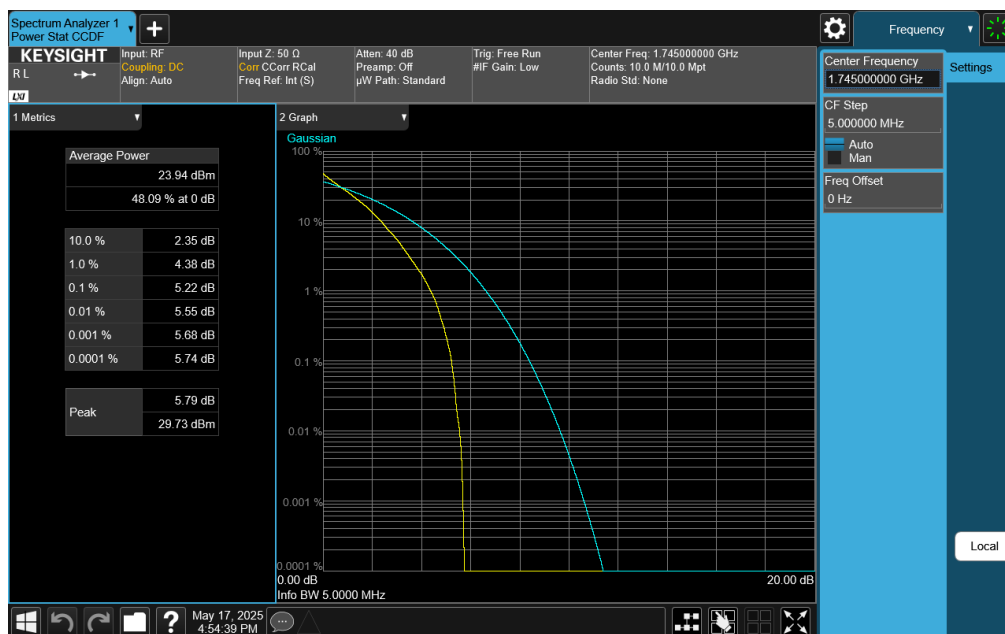
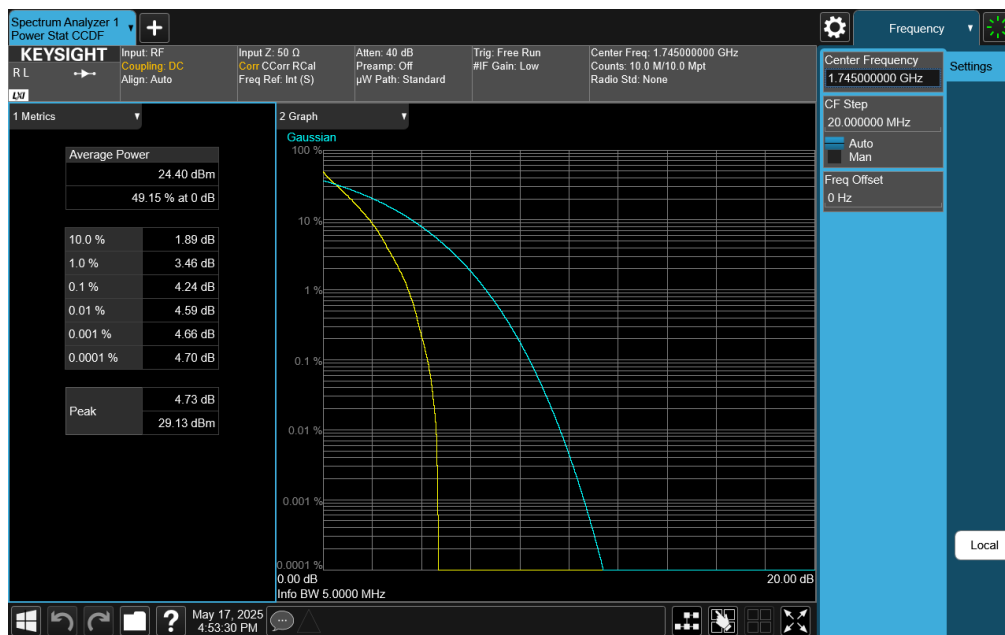
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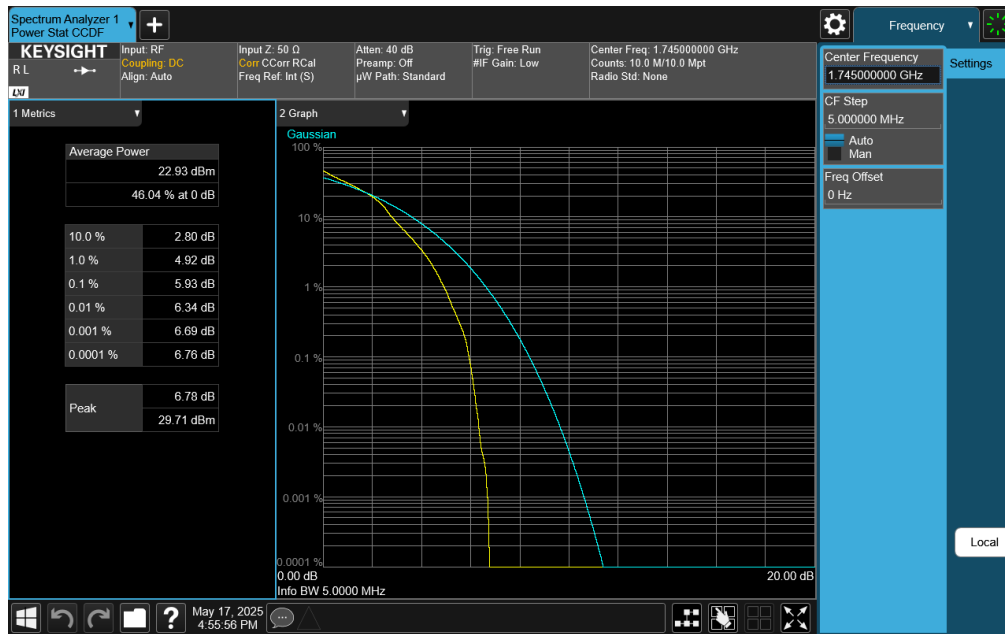
FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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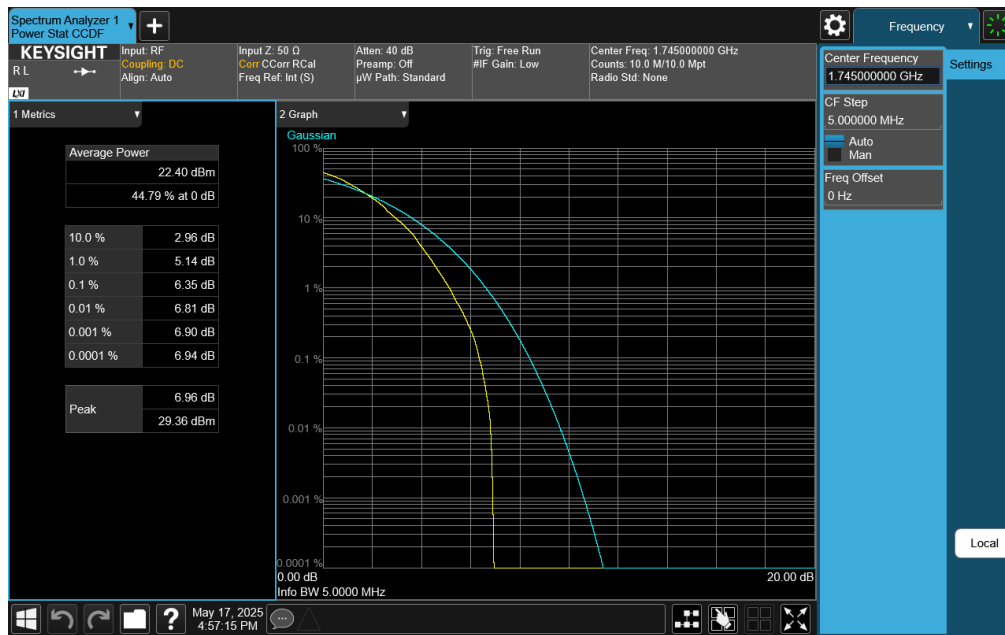
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Plot 7-268. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

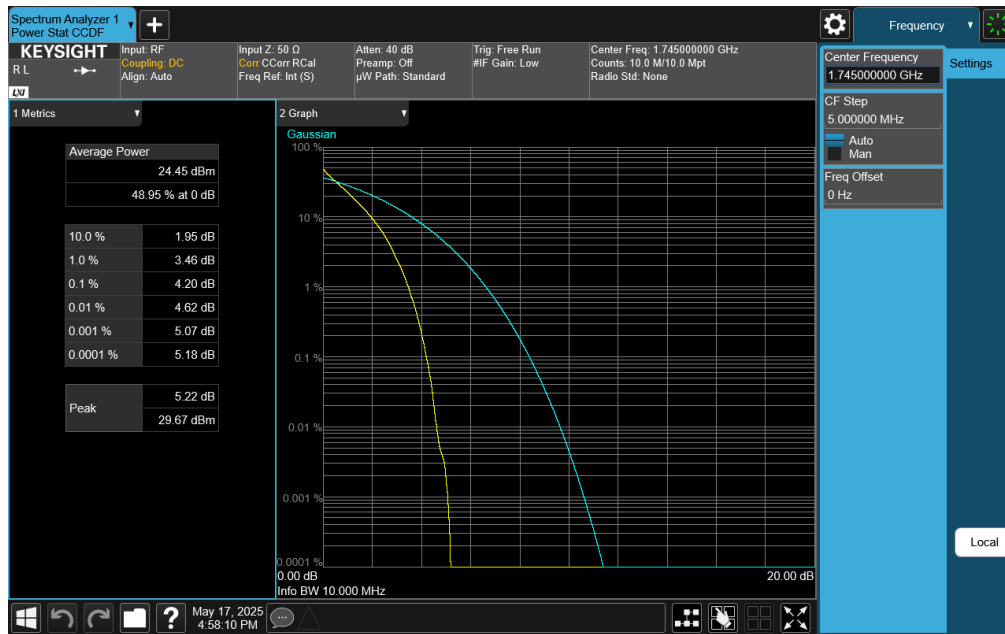


Plot 7-269. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

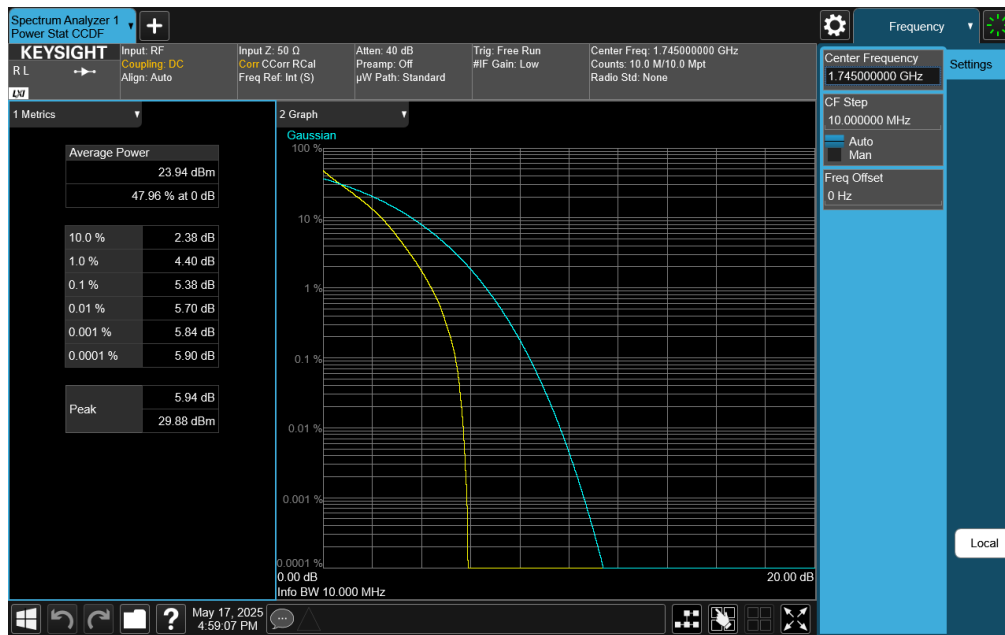
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-270. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

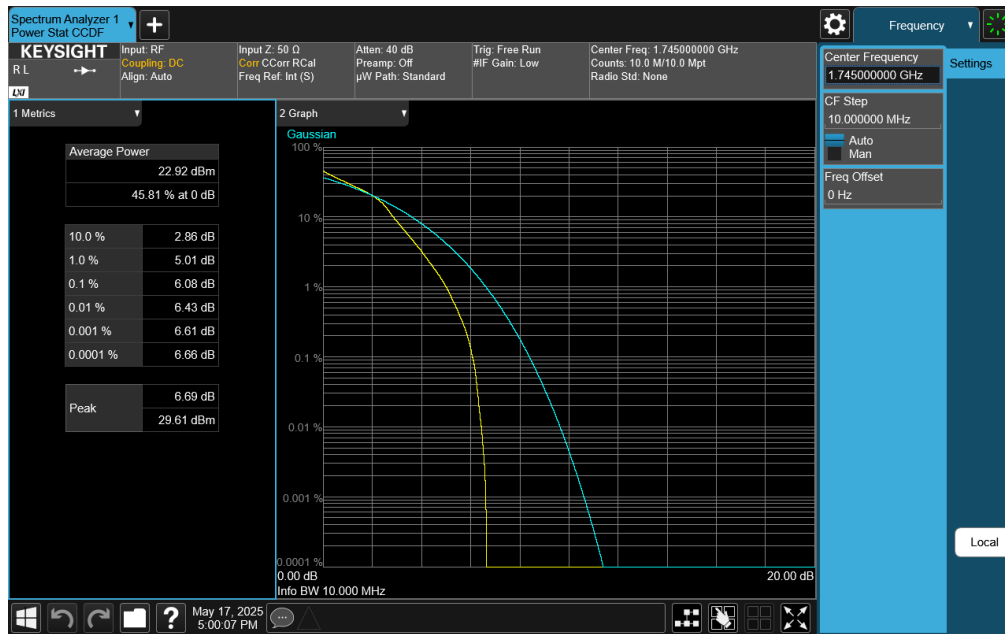


Plot 7-271. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

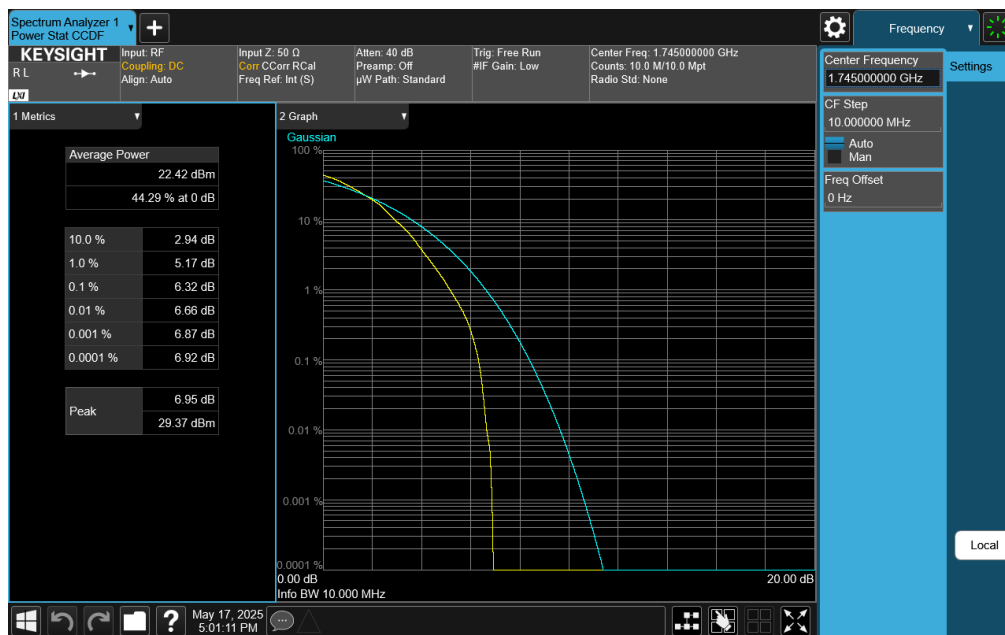
FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-272. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

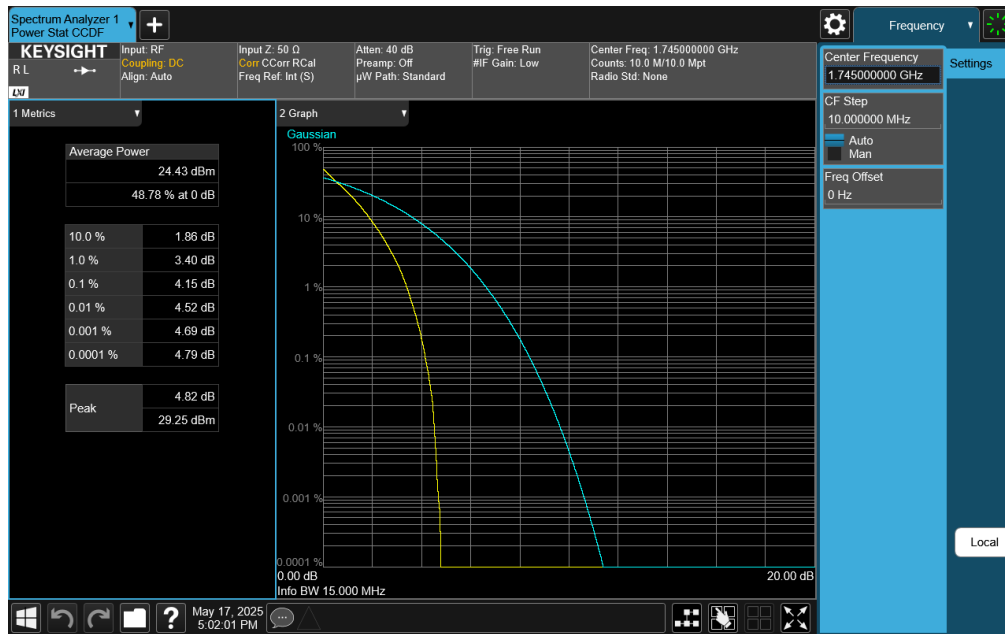


Plot 7-273. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

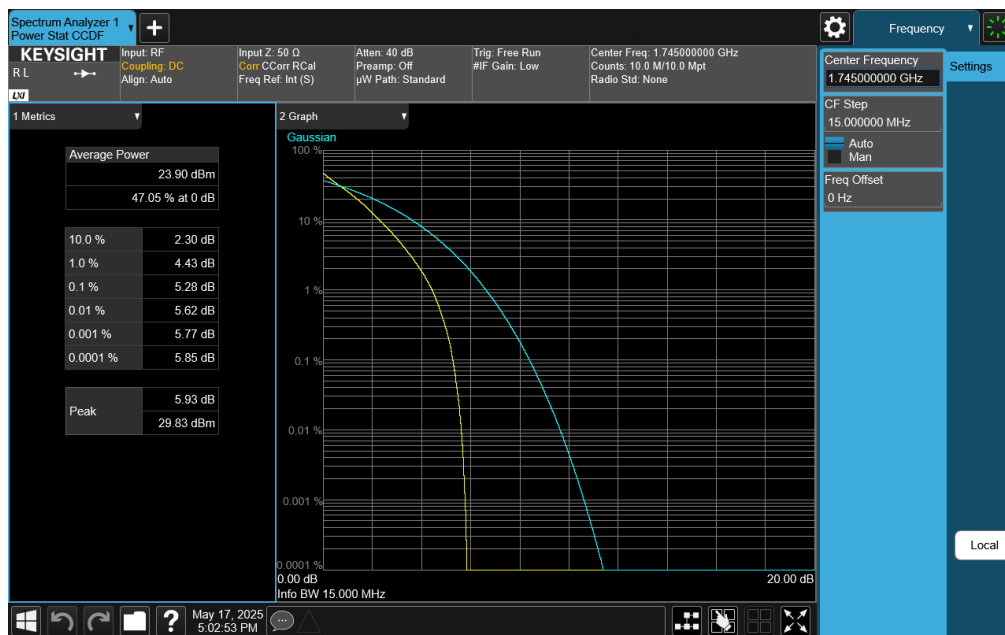
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-274. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

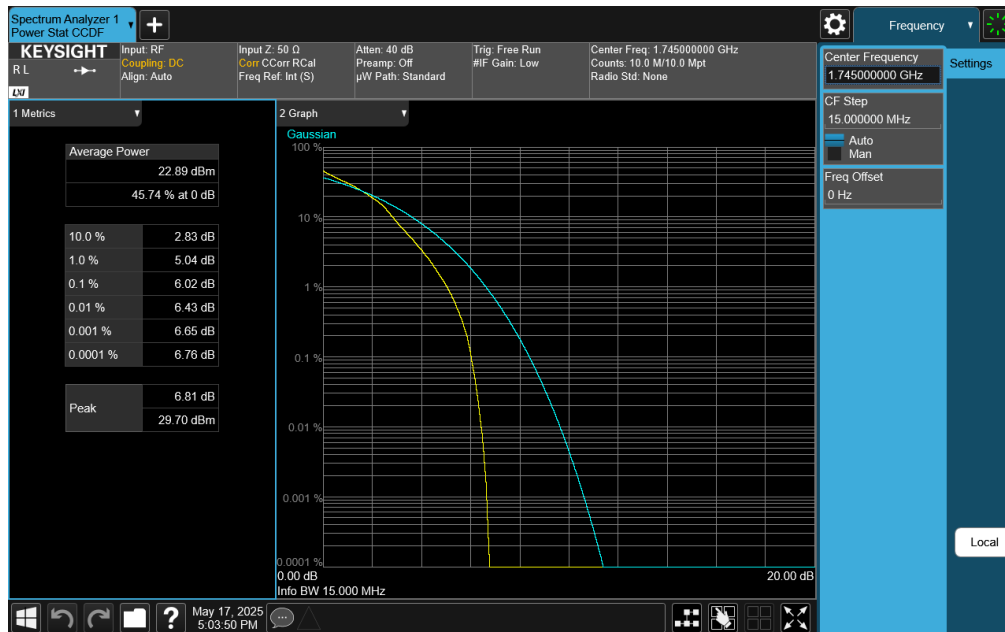


Plot 7-275. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

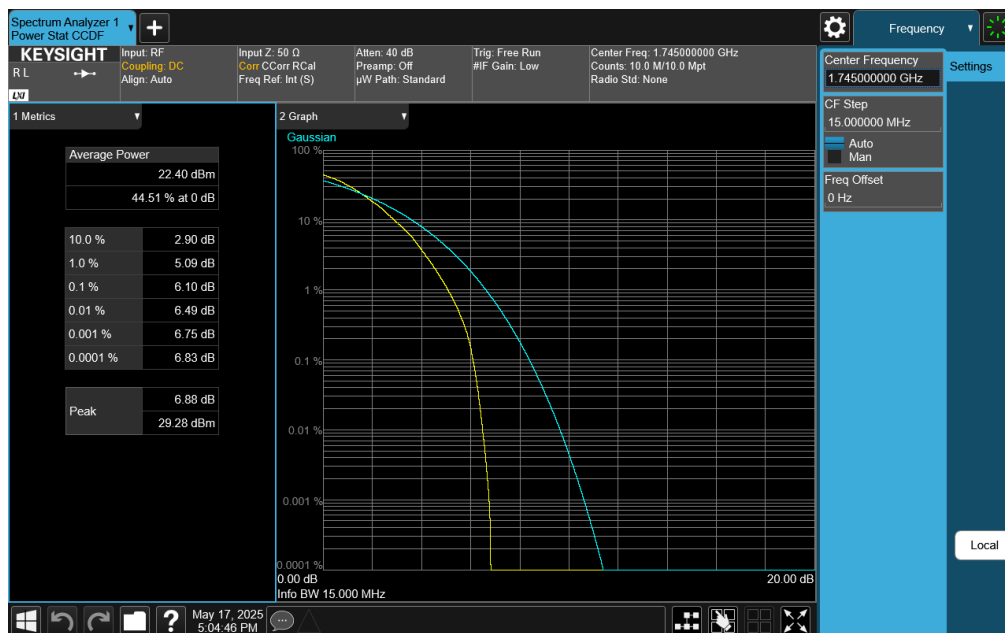
FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-276. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

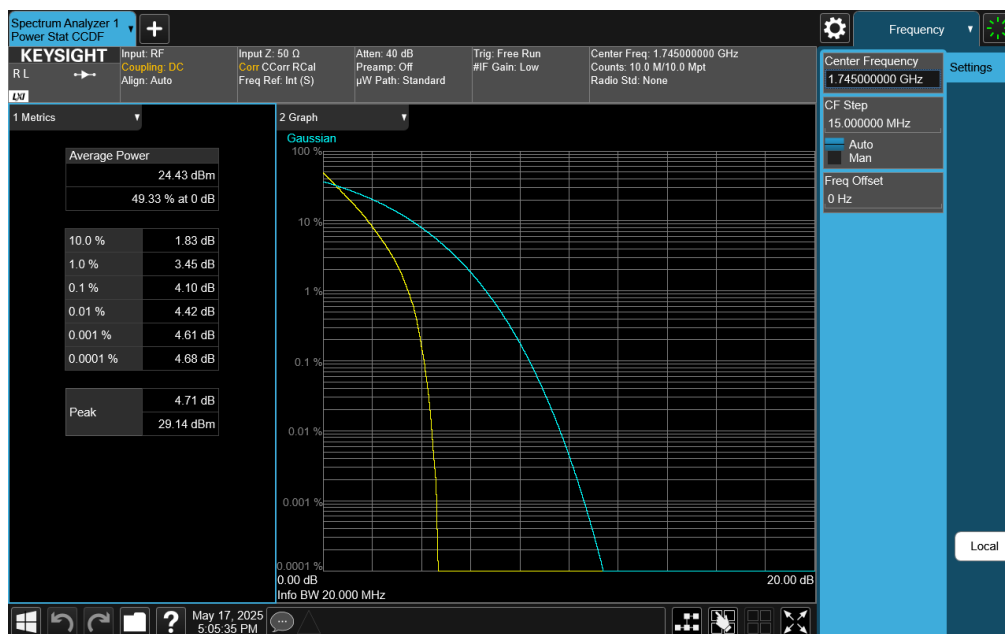


Plot 7-277. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

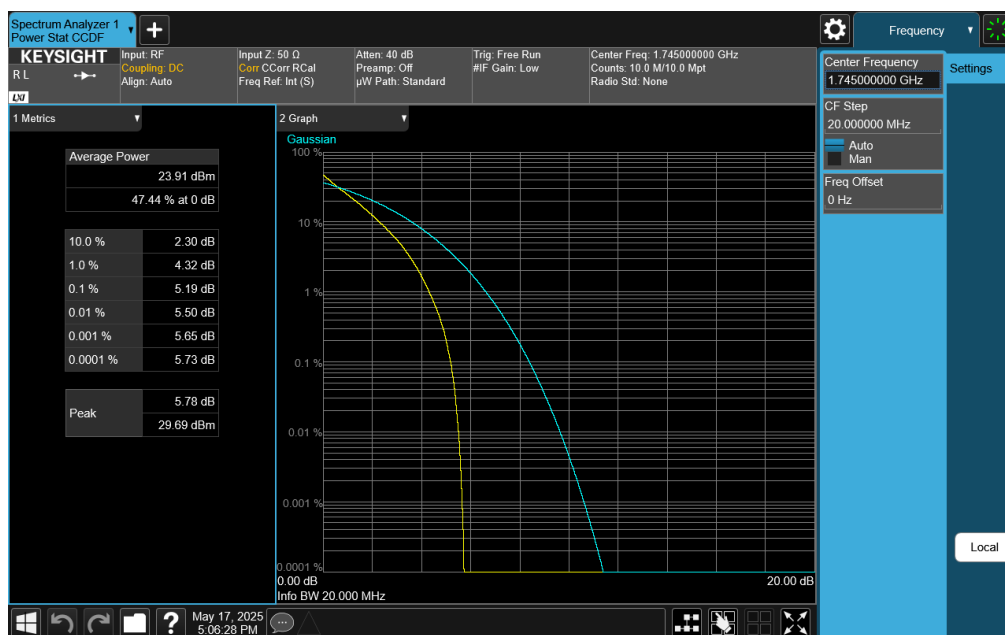
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-278. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

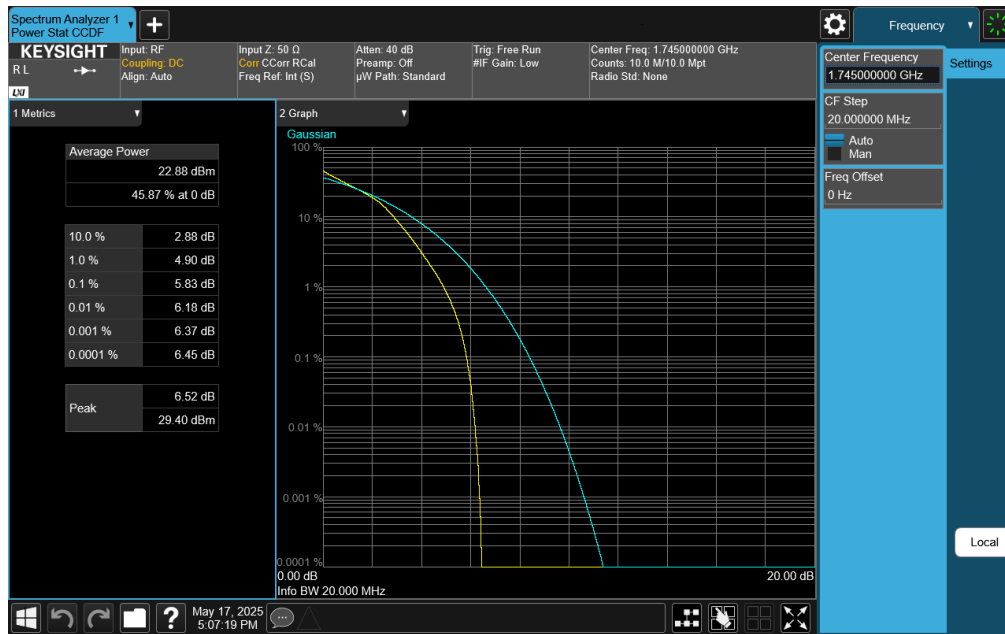


Plot 7-279. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

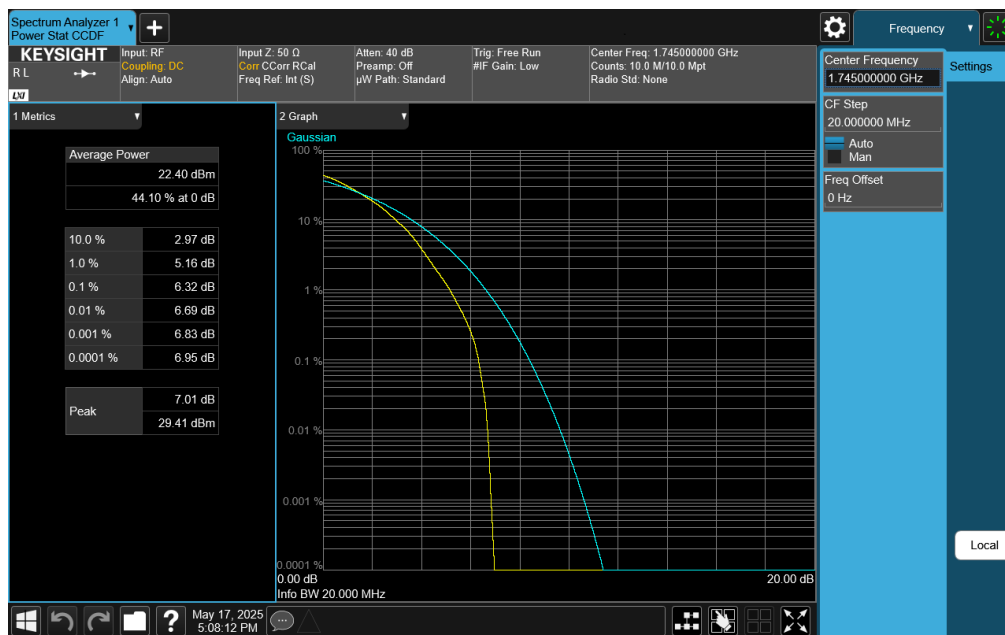
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-280. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-281. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

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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.

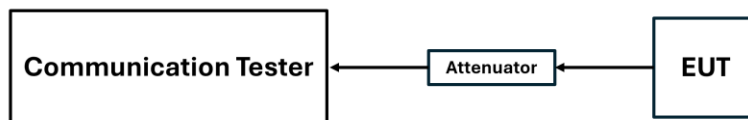


Figure 7-9. LTE ERP/EIRP Measurement Setup

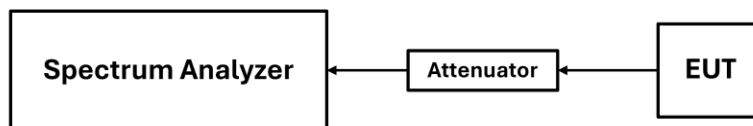




Figure 7-10. FR1 ERP/EIRP Measurement Setup

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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. The Ant. Gains (GT) are listed in dBi.
5. 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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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	-12.20	1 / 0	24.77	12.57	18.072	30.00	-17.43
		1745.0	-12.20	1 / 5	24.89	12.69	18.578	30.00	-17.31
		1779.3	-12.20	1 / 5	25.05	12.85	19.275	30.00	-17.15
	16-QAM	1745.0	-12.20	1 / 0	24.30	12.10	16.218	30.00	-17.90
3 MHz	QPSK	1711.5	-12.20	1 / 14	24.86	12.66	18.450	30.00	-17.34
		1745.0	-12.20	1 / 14	24.95	12.75	18.836	30.00	-17.25
		1778.5	-12.20	1 / 14	24.84	12.64	18.365	30.00	-17.36
	16-QAM	1745.0	-12.20	1 / 14	24.33	12.13	16.331	30.00	-17.87
5 MHz	QPSK	1712.5	-12.20	1 / 12	24.95	12.75	18.836	30.00	-17.25
		1745.0	-12.20	1 / 24	24.98	12.78	18.967	30.00	-17.22
		1777.5	-12.20	1 / 12	24.79	12.59	18.155	30.00	-17.41
	16-QAM	1745.0	-12.20	1 / 0	24.50	12.30	16.982	30.00	-17.70
10 MHz	QPSK	1715.0	-12.20	1 / 49	24.91	12.71	18.664	30.00	-17.29
		1745.0	-12.20	1 / 49	24.96	12.76	18.880	30.00	-17.24
		1775.0	-12.20	1 / 0	24.82	12.62	18.281	30.00	-17.38
	16-QAM	1745.0	-12.20	1 / 49	24.33	12.13	16.331	30.00	-17.87
15 MHz	QPSK	1717.5	-12.20	1 / 37	25.20	13.00	19.953	30.00	-17.00
		1745.0	-12.20	1 / 74	24.98	12.78	18.967	30.00	-17.22
		1772.5	-12.20	1 / 37	24.85	12.65	18.408	30.00	-17.35
	16-QAM	1745.0	-12.20	1 / 74	24.37	12.17	16.482	30.00	-17.83
20 MHz	QPSK	1720.0	-12.20	1 / 50	25.16	12.96	19.770	30.00	-17.04
		1745.0	-12.20	1 / 50	24.79	12.59	18.155	30.00	-17.41
		1770.0	-12.20	1 / 50	24.99	12.79	19.011	30.00	-17.21
	16-QAM	1770.0	-12.20	1 / 99	24.49	12.29	16.943	30.00	-17.71

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	-12.20	1 / 5	24.80	12.60	18.197	30.00	-17.40
		1732.5	-12.20	1 / 5	24.94	12.74	18.793	30.00	-17.26
		1754.3	-12.20	1 / 5	25.07	12.87	19.364	30.00	-17.13
	16-QAM	1732.5	-12.20	1 / 0	24.42	12.22	16.672	30.00	-17.78
3 MHz	QPSK	1711.5	-12.20	1 / 14	24.90	12.70	18.621	30.00	-17.30
		1732.5	-12.20	1 / 7	24.92	12.72	18.707	30.00	-17.28
		1753.5	-12.20	1 / 0	24.78	12.58	18.113	30.00	-17.42
	16-QAM	1732.5	-12.20	1 / 0	24.45	12.25	16.788	30.00	-17.75
5 MHz	QPSK	1712.5	-12.20	1 / 12	25.04	12.84	19.231	30.00	-17.16
		1732.5	-12.20	1 / 0	25.04	12.84	19.231	30.00	-17.16
		1752.5	-12.20	1 / 12	24.78	12.58	18.113	30.00	-17.42
	16-QAM	1732.5	-12.20	1 / 0	24.63	12.43	17.498	30.00	-17.57
10 MHz	QPSK	1715.0	-12.20	1 / 49	24.88	12.68	18.535	30.00	-17.32
		1732.5	-12.20	1 / 0	25.00	12.80	19.055	30.00	-17.20
		1750.0	-12.20	1 / 0	24.81	12.61	18.239	30.00	-17.39
	16-QAM	1732.5	-12.20	1 / 0	24.48	12.28	16.904	30.00	-17.72
15 MHz	QPSK	1717.5	-12.20	1 / 37	25.14	12.94	19.679	30.00	-17.06
		1732.5	-12.20	1 / 37	25.02	12.82	19.143	30.00	-17.18
		1747.5	-12.20	1 / 37	24.87	12.67	18.493	30.00	-17.33
	16-QAM	1732.5	-12.20	1 / 0	24.43	12.23	16.711	30.00	-17.77
20 MHz	QPSK	1720.0	-12.20	1 / 99	25.20	13.00	19.953	30.00	-17.00
		1732.5	-12.20	1 / 50	24.81	12.61	18.239	30.00	-17.39
		1745.0	-12.20	1 / 99	25.01	12.81	19.099	30.00	-17.19
	16-QAM	1745.0	-12.20	1 / 50	24.55	12.35	17.179	30.00	-17.65

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

FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth	Mod.	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	1712.5	-12.20	1 / 12	25.12	12.92	19.588	30.00	-17.08
		1745.0	-12.20	1 / 12	25.03	12.83	19.187	30.00	-17.17
		1777.5	-12.20	1 / 0	25.13	12.93	19.634	30.00	-17.07
	QPSK	1712.5	-12.20	1 / 0	24.83	12.63	18.323	30.00	-17.37
		1745.0	-12.20	1 / 0	25.08	12.88	19.409	30.00	-17.12
		1777.5	-12.20	1 / 0	25.20	13.00	19.953	30.00	-17.00
10 MHz	$\pi/2$ BPSK	1715.0	-12.20	1 / 49	25.20	13.00	19.953	30.00	-17.00
		1745.0	-12.20	1 / 49	25.00	12.80	19.055	30.00	-17.20
		1775.0	-12.20	1 / 25	25.02	12.82	19.143	30.00	-17.18
	QPSK	1715.0	-12.20	1 / 25	25.16	12.96	19.770	30.00	-17.04
		1745.0	-12.20	1 / 0	25.17	12.97	19.815	30.00	-17.03
		1775.0	-12.20	1 / 49	25.19	12.99	19.907	30.00	-17.01
15 MHz	$\pi/2$ BPSK	1717.5	-12.20	1 / 0	25.06	12.86	19.320	30.00	-17.14
		1745.0	-12.20	1 / 0	24.93	12.73	18.750	30.00	-17.27
		1772.5	-12.20	1 / 74	25.12	12.92	19.588	30.00	-17.08
	QPSK	1717.5	-12.20	1 / 37	25.05	12.85	19.275	30.00	-17.15
		1745.0	-12.20	1 / 0	25.20	13.00	19.953	30.00	-17.00
		1772.5	-12.20	1 / 0	25.00	12.80	19.055	30.00	-17.20
20 MHz	$\pi/2$ BPSK	1717.5	-12.20	1 / 0	24.18	11.98	15.776	30.00	-18.02
		1745.0	-12.20	1 / 37	23.05	10.85	12.162	30.00	-19.15
		1772.5	-12.20	1 / 37	23.05	10.85	12.162	30.00	-19.15
	QPSK	1720.0	-12.20	1 / 50	25.07	12.87	19.364	30.00	-17.13
		1745.0	-12.20	1 / 99	25.20	13.00	19.953	30.00	-17.00
		1770.0	-12.20	1 / 50	24.95	12.75	18.836	30.00	-17.25
20 MHz	QPSK	1720.0	-12.20	1 / 0	25.10	12.90	19.498	30.00	-17.10
		1745.0	-12.20	1 / 0	25.18	12.98	19.861	30.00	-17.02
		1770.0	-12.20	1 / 50	24.98	12.78	18.967	30.00	-17.22
	16-QAM	1770.0	-12.20	1 / 99	24.20	12.00	15.849	30.00	-18.00
	64-QAM	1745.0	-12.20	1 / 50	23.13	10.93	12.388	30.00	-19.07

Table 7-4. Antenna FCM EIRP Data NR Band n66

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7.6.2 Antenna BCM – ERP

LTE Band 71


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-29.30	1 / 0	25.26	-6.19	0.240	34.77	-40.96
		680.5	-29.30	1 / 12	25.20	-6.25	0.237	34.77	-41.02
		695.5	-29.30	1 / 12	25.39	-6.06	0.248	34.77	-40.83
	16-QAM	695.5	-29.30	1 / 12	24.52	-6.93	0.203	34.77	-41.70
10 MHz	QPSK	668.0	-29.30	1 / 49	25.49	-5.96	0.254	34.77	-40.73
		680.5	-29.30	1 / 49	25.30	-6.15	0.243	34.77	-40.92
		693.0	-29.30	1 / 25	25.26	-6.19	0.240	34.77	-40.96
	16-QAM	693.0	-29.30	1 / 49	24.66	-6.79	0.209	34.77	-41.56
15 MHz	QPSK	670.5	-29.30	1 / 0	25.36	-6.09	0.246	34.77	-40.86
		680.5	-29.30	1 / 37	25.46	-5.99	0.252	34.77	-40.76
		690.5	-29.30	1 / 0	25.33	-6.12	0.244	34.77	-40.89
	16-QAM	670.5	-29.30	1 / 74	24.56	-6.89	0.205	34.77	-41.66
20 MHz	QPSK	673.0	-29.30	1 / 0	25.20	-6.25	0.237	34.77	-41.02
		680.5	-29.30	1 / 99	25.44	-6.01	0.251	34.77	-40.78
		688.0	-29.30	1 / 50	25.24	-6.21	0.239	34.77	-40.98
	16-QAM	673.0	-29.30	1 / 50	24.68	-6.77	0.210	34.77	-41.54

Table 7-5. Antenna BCM ERP Data LTE Band 71

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]
1.4 MHz	QPSK	699.7	-28.60	1 / 5	25.33	-5.42	0.287	34.77	-40.19
		707.5	-28.60	1 / 0	25.42	-5.33	0.293	34.77	-40.10
		715.3	-28.60	1 / 5	25.57	-5.18	0.303	34.77	-39.95
	16-QAM	707.5	-28.60	1 / 5	24.75	-6.00	0.251	34.77	-40.77
3 MHz	QPSK	700.5	-28.60	1 / 14	25.39	-5.36	0.291	34.77	-40.13
		707.5	-28.60	1 / 14	25.43	-5.32	0.294	34.77	-40.09
		714.5	-28.60	1 / 14	25.37	-5.38	0.290	34.77	-40.15
	16-QAM	714.5	-28.60	1 / 14	24.61	-6.14	0.243	34.77	-40.91
5 MHz	QPSK	701.5	-28.60	1 / 24	25.41	-5.34	0.292	34.77	-40.11
		707.5	-28.60	1 / 12	25.47	-5.28	0.296	34.77	-40.05
		713.5	-28.60	1 / 24	25.33	-5.42	0.287	34.77	-40.19
	16-QAM	707.5	-28.60	1 / 0	24.70	-6.05	0.248	34.77	-40.82
10 MHz	QPSK	704.0	-28.60	1 / 49	25.36	-5.39	0.289	34.77	-40.16
		707.5	-28.60	1 / 49	25.43	-5.32	0.294	34.77	-40.09
		711.0	-28.60	1 / 49	25.40	-5.35	0.292	34.77	-40.12
	16-QAM	711.0	-28.60	1 / 49	24.61	-6.14	0.243	34.77	-40.91

Table 7-6. Antenna BCM ERP Data LTE Band 12

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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]
5 MHz	QPSK	706.5	-28.60	1 / 0	25.40	-5.35	0.292	34.77	-40.12
		710.0	-28.60	1 / 12	25.43	-5.32	0.294	34.77	-40.09
		713.5	-28.60	1 / 0	25.24	-5.51	0.281	34.77	-40.28
10 MHz	16-QAM	710.0	-28.60	1 / 0	24.63	-6.12	0.244	34.77	-40.89
		709.0	-28.60	1 / 0	25.28	-5.47	0.284	34.77	-40.24
	QPSK	710.0	-28.60	1 / 25	25.34	-5.41	0.288	34.77	-40.18
		711.0	-28.60	1 / 49	25.29	-5.46	0.284	34.77	-40.23
	16-QAM	710.0	-28.60	1 / 0	24.58	-6.17	0.242	34.77	-40.94

Table 7-7. Antenna BCM ERP 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]
5 MHz	QPSK	779.5	-27.00	1 / 24	25.47	-3.68	0.429	34.77	-38.45
		782.0	-27.00	1 / 12	25.49	-3.66	0.431	34.77	-38.43
		784.5	-27.00	1 / 0	25.34	-3.81	0.416	34.77	-38.58
10 MHz	16-QAM	779.5	-27.00	1 / 0	25.01	-4.14	0.385	34.77	-38.91
	QPSK	782.0	-27.00	1 / 0	25.45	-3.70	0.427	34.77	-38.47
	16-QAM	782.0	-27.00	1 / 25	24.58	-4.57	0.349	34.77	-39.34

Table 7-8. Antenna BCM ERP Data LTE Band 13

FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-29.30	1 / 24	25.58	-5.87	0.259	34.77	-40.64
		680.5	-29.30	1 / 12	25.67	-5.78	0.264	34.77	-40.55
		695.5	-29.30	1 / 0	25.59	-5.86	0.259	34.77	-40.63
	QPSK	665.5	-29.30	1 / 0	25.70	-5.75	0.266	34.77	-40.52
		680.5	-29.30	1 / 24	25.70	-5.75	0.266	34.77	-40.52
		695.5	-29.30	1 / 0	25.66	-5.79	0.264	34.77	-40.56
	16-QAM	680.5	-29.30	1 / 12	24.64	-6.81	0.208	34.77	-41.58
10 MHz	$\pi/2$ BPSK	680.5	-29.30	1 / 24	23.69	-7.76	0.167	34.77	-42.53
	QPSK	668.0	-29.30	1 / 25	25.55	-5.90	0.257	34.77	-40.67
		680.5	-29.30	1 / 49	25.64	-5.81	0.262	34.77	-40.58
		693.0	-29.30	1 / 0	25.60	-5.85	0.260	34.77	-40.62
	16-QAM	668.0	-29.30	1 / 25	25.70	-5.75	0.266	34.77	-40.52
		680.5	-29.30	1 / 49	25.63	-5.82	0.262	34.77	-40.59
		693.0	-29.30	1 / 25	25.31	-6.14	0.243	34.77	-40.91
15 MHz	$\pi/2$ BPSK	693.0	-29.30	1 / 25	24.60	-6.85	0.207	34.77	-41.62
	QPSK	693.0	-29.30	1 / 25	23.62	-7.83	0.165	34.77	-42.60
		693.0	-29.30	1 / 25	23.62	-7.83	0.165	34.77	-42.60
	16-QAM	670.5	-29.30	1 / 74	25.59	-5.86	0.259	34.77	-40.63
		680.5	-29.30	1 / 37	25.70	-5.75	0.266	34.77	-40.52
		690.5	-29.30	1 / 74	25.63	-5.82	0.262	34.77	-40.59
	64-QAM	670.5	-29.30	1 / 37	25.57	-5.88	0.258	34.77	-40.65
20 MHz	$\pi/2$ BPSK	680.5	-29.30	1 / 37	25.67	-5.78	0.264	34.77	-40.55
	QPSK	690.5	-29.30	1 / 0	25.63	-5.82	0.262	34.77	-40.59
		690.5	-29.30	1 / 0	25.63	-5.82	0.262	34.77	-40.59
	16-QAM	670.5	-29.30	1 / 74	24.65	-6.80	0.209	34.77	-41.57
		680.5	-29.30	1 / 37	23.70	-7.75	0.168	34.77	-42.52
		690.5	-29.30	1 / 37	23.70	-7.75	0.168	34.77	-42.52
	64-QAM	670.5	-29.30	1 / 37	23.70	-7.75	0.168	34.77	-42.52

Table 7-9. Antenna BCM EIRP Data NR Band n71


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NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-28.60	1 / 1	25.52	-5.23	0.300	34.77	-40.00
		707.5	-28.60	1 / 12	25.70	-5.05	0.313	34.77	-39.82
		713.5	-28.60	1 / 12	25.65	-5.10	0.309	34.77	-39.87
	QPSK	701.5	-28.60	1 / 12	25.69	-5.06	0.312	34.77	-39.83
		707.5	-28.60	1 / 23	25.64	-5.11	0.308	34.77	-39.88
		713.5	-28.60	1 / 12	25.63	-5.12	0.308	34.77	-39.89
	16-QAM	701.5	-28.60	1 / 23	24.63	-6.12	0.244	34.77	-40.89
		713.5	-28.60	1 / 12	23.66	-7.09	0.195	34.77	-41.86
10 MHz	$\pi/2$ BPSK	704.0	-28.60	1 / 1	25.67	-5.08	0.310	34.77	-39.85
		707.5	-28.60	1 / 26	25.57	-5.18	0.303	34.77	-39.95
		711.0	-28.60	1 / 26	25.69	-5.06	0.312	34.77	-39.83
	QPSK	704.0	-28.60	1 / 50	25.35	-5.40	0.288	34.77	-40.17
		707.5	-28.60	1 / 26	25.70	-5.05	0.313	34.77	-39.82
		711.0	-28.60	1 / 26	25.63	-5.12	0.308	34.77	-39.89
	16-QAM	704.0	-28.60	1 / 50	24.66	-6.09	0.246	34.77	-40.86
15 MHz	$\pi/2$ BPSK	706.5	-28.60	1 / 39	25.66	-5.09	0.310	34.77	-39.86
		707.5	-28.60	1 / 77	25.61	-5.14	0.306	34.77	-39.91
		708.5	-28.60	1 / 39	25.56	-5.19	0.303	34.77	-39.96
	QPSK	706.5	-28.60	1 / 39	25.70	-5.05	0.313	34.77	-39.82
		707.5	-28.60	1 / 1	25.67	-5.08	0.310	34.77	-39.85
		708.5	-28.60	1 / 77	25.59	-5.16	0.305	34.77	-39.93
	16-QAM	707.5	-28.60	1 / 39	24.70	-6.05	0.248	34.77	-40.82
15 MHz	64-QAM	707.5	-28.60	1 / 39	23.74	-7.01	0.199	34.77	-41.78

Table 7-10. Antenna BCM ERP Data NR Band n12

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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.

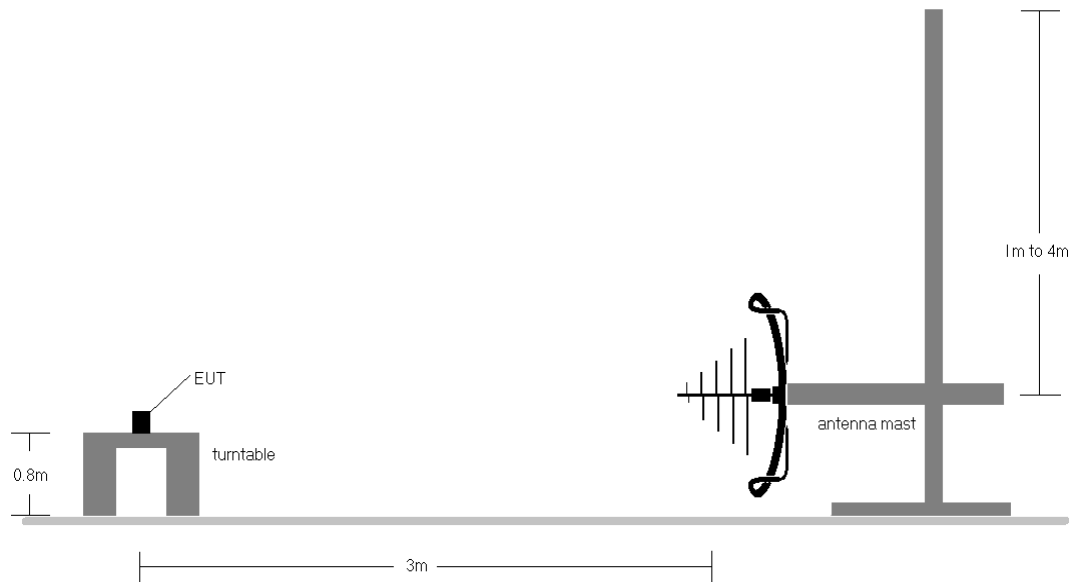


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

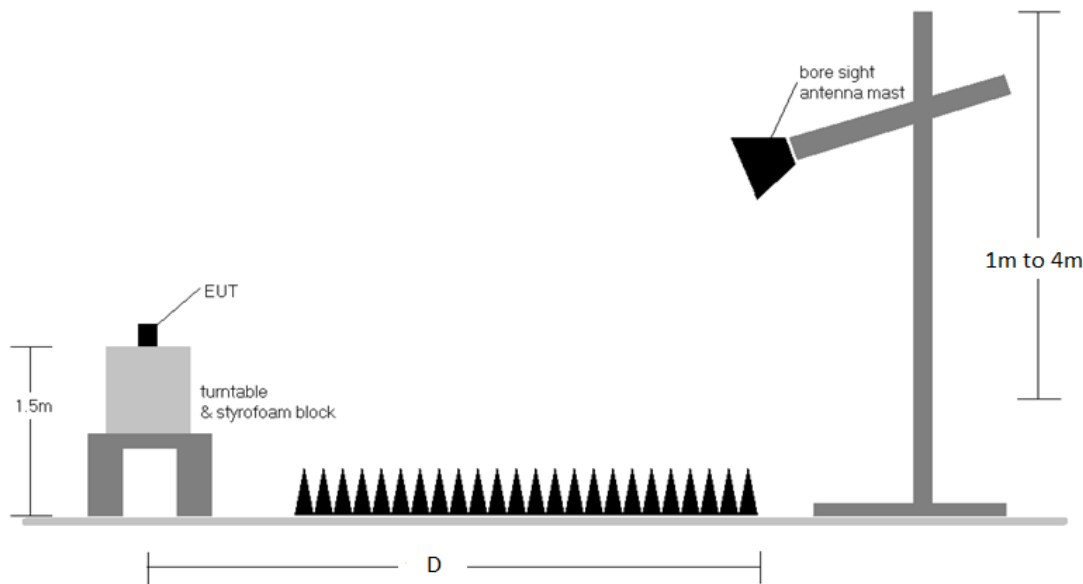




Figure 7-12. Test Instrument & Measurement Setup > 1GHz

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Test Notes

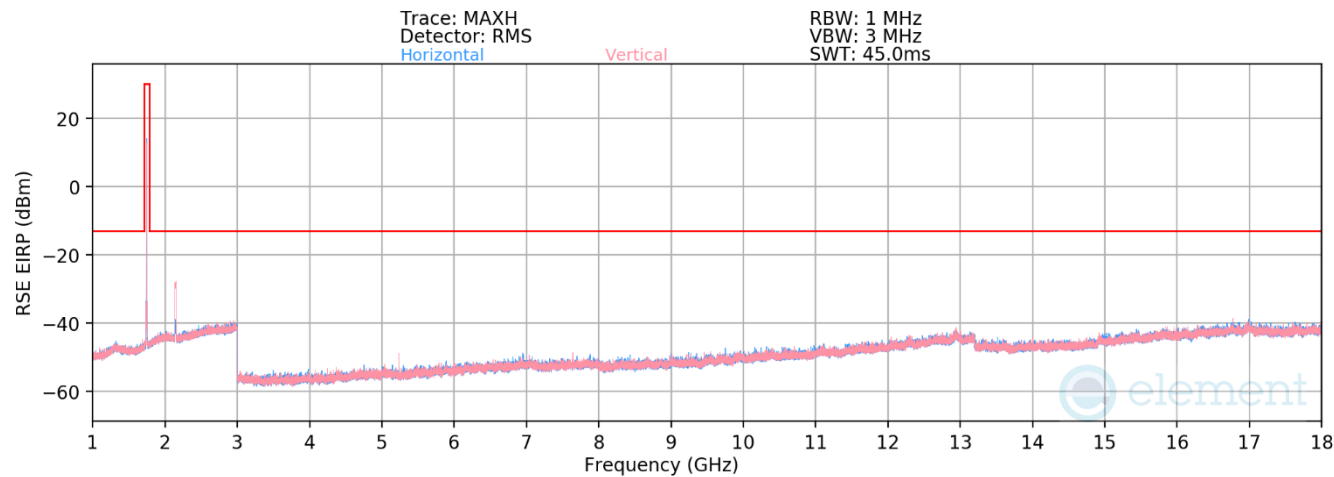
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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. 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. 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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7.7.1 Antenna FCM – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-282. Antenna FCM Radiated Spurious Emission above 1GHz (LTE Band 66/4)

FCC ID: BCG-A3328	elementPART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
3422.3	H	-	-	-79.35	5.06	32.72	-62.54	-13.00	-49.54
5146.4	H	-	-	-81.26	8.37	34.11	-61.15	-13.00	-48.15
6901.8	V	-	-	-81.42	11.26	36.84	-58.41	-13.00	-45.41

Table 7-11. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1/50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-79.32	5.42	33.10	-62.16	-13.00	-49.16
5235.0	V	101	69	-74.87	8.59	40.72	-54.54	-13.00	-41.54
6980.0	V	-	-	-81.92	11.14	36.22	-59.04	-13.00	-46.04
8725.0	V	-	-	-81.37	11.89	37.52	-57.74	-13.00	-44.74
10470.0	H	-	-	-82.84	15.08	39.24	-56.02	-13.00	-43.02

Table 7-12. 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	-	-	-79.61	5.36	32.75	-62.50	-13.00	-49.50
5310.0	H	282	34	-78.04	8.69	37.65	-57.61	-13.00	-44.61
7080.0	H	-	-	-81.77	11.33	36.56	-58.69	-13.00	-45.69
8850.0	H	-	-	-81.35	11.74	37.39	-57.86	-13.00	-44.86
10620.0	V	-	-	-82.69	15.13	39.44	-55.81	-13.00	-42.81

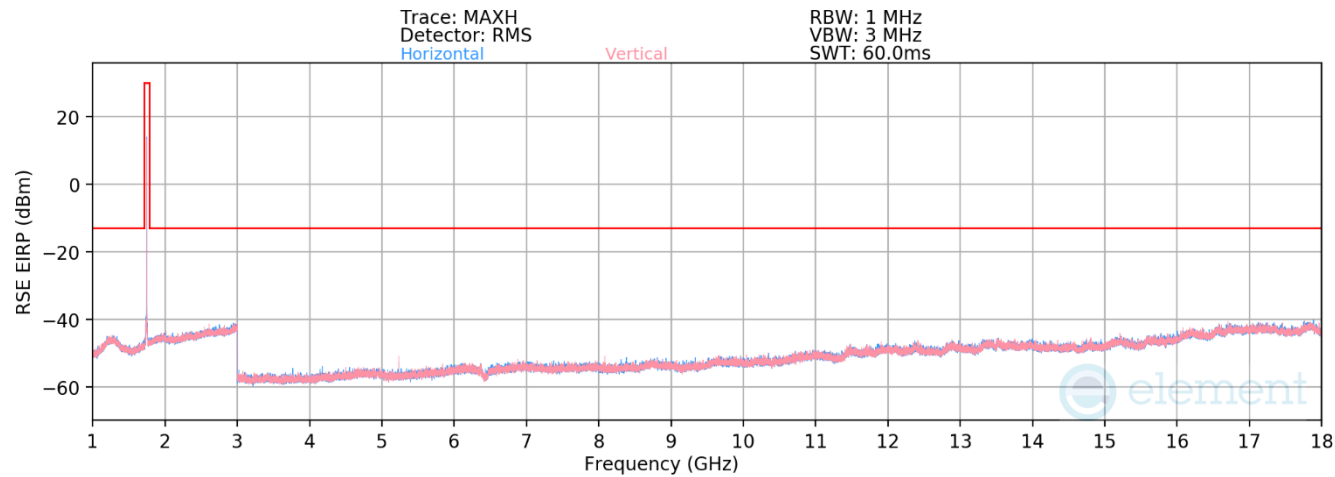
Table 7-13. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n66/n4



Plot 7-283. Antenna FCM Radiated Spurious Emission above 1GHz (NR Band n66/n4)

FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch
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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	119	179	-77.43	4.10	33.67	-61.59	-13.00	-48.59
5160.0	V	155	7	-77.66	5.93	35.27	-59.99	-13.00	-46.99
6880.0	V	-	-	-80.40	8.77	35.36	-59.89	-13.00	-46.89
8600.0	V	-	-	-79.49	8.61	36.13	-59.13	-13.00	-46.13
10320.0	V	-	-	-81.63	12.29	37.66	-57.60	-13.00	-44.60

Table 7-14. Antenna FCM Radiated Spurious Data (NR Band n66/n4 – 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	-	-	-78.02	3.34	32.33	-62.93	-13.00	-49.93
5235.0	V	165	359	-73.76	5.85	39.09	-56.17	-13.00	-43.17
6980.0	V	-	-	-79.67	8.34	35.67	-59.58	-13.00	-46.58
8725.0	H	-	-	-80.44	10.11	36.67	-58.59	-13.00	-45.59
10470.0	V	-	-	-81.33	11.91	37.58	-57.68	-13.00	-44.68

Table 7-15. Antenna FCM Radiated Spurious Data (NR Band n66/n4 – 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	-	-	-77.71	3.00	32.29	-62.97	-13.00	-49.97
5310.0	H	293	299	-74.22	5.85	38.63	-56.63	-13.00	-43.63
7080.0	H	-	-	-79.95	8.75	35.81	-59.45	-13.00	-46.45
8850.0	H	-	-	-79.63	8.96	36.33	-58.93	-13.00	-45.93
10620.0	H	-	-	-81.51	12.38	37.87	-57.39	-13.00	-44.39

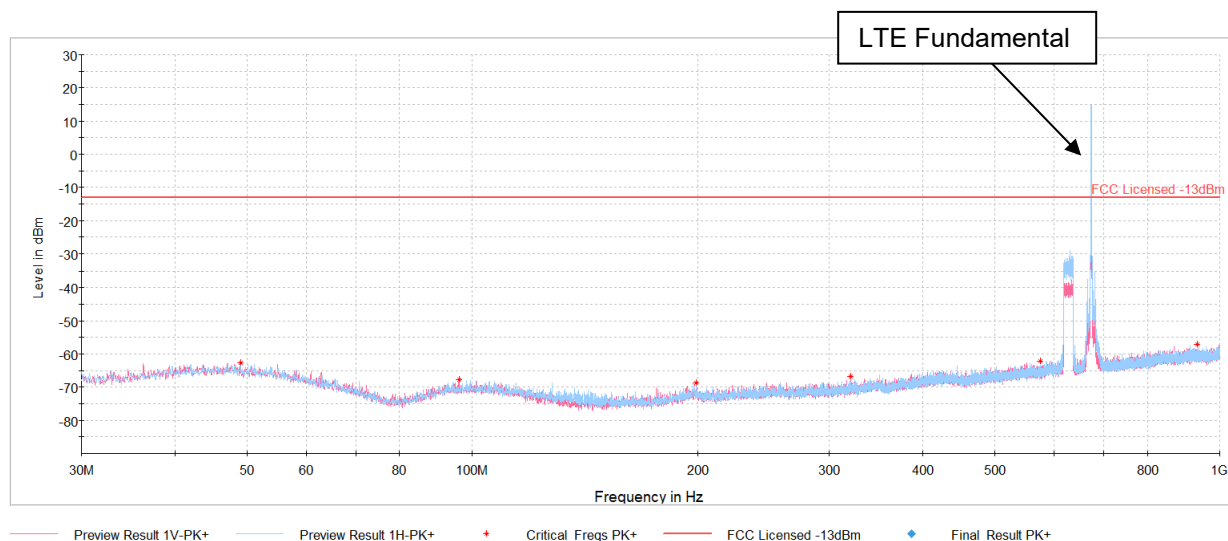
Table 7-16. Antenna FCM Radiated Spurious Data (NR Band n66/n4 – High Channel)

FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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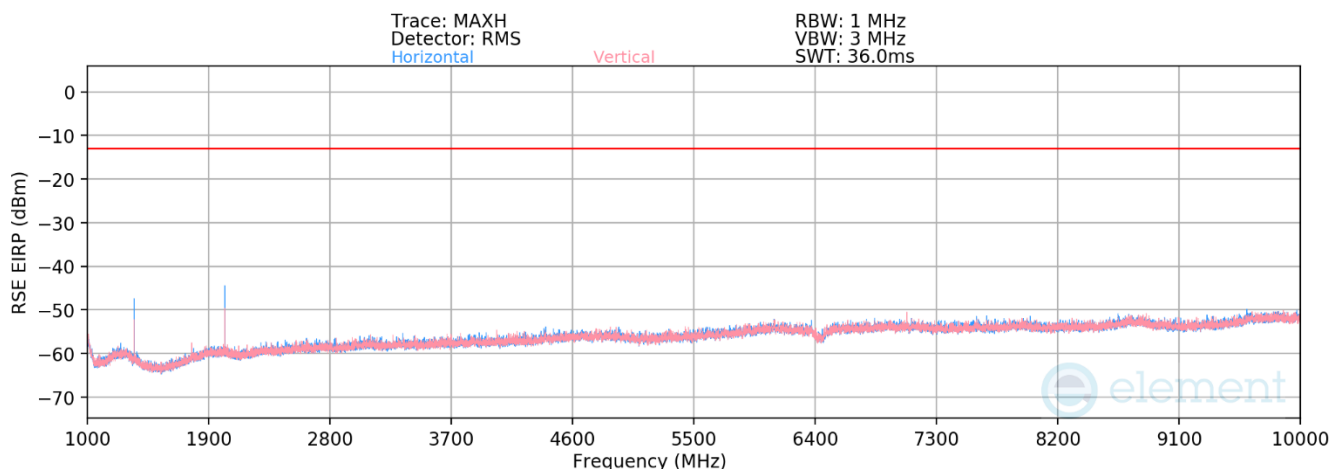
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7.7.2 Antenna BCM – Radiated Spurious Emission Measurement

LTE Band 71



Plot 7-284. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 71)



Plot 7-285. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 71)

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 183 of 202

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Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	168	306	-64.79	-0.67	41.54	-53.72	-13.00	-40.72
2019.0	H	207	333	-65.59	0.39	41.80	-53.46	-13.00	-40.46
2692.0	V	-	-	-76.96	1.23	31.28	-63.98	-13.00	-50.98
3365.0	V	-	-	-77.58	2.43	31.85	-63.40	-13.00	-50.40
4038.0	V	-	-	-78.15	3.78	32.63	-62.63	-13.00	-49.63

Table 7-17. Antenna BCM Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	217	100	-71.93	-1.25	33.82	-61.44	-13.00	-48.44
2041.5	H	108	33	-69.29	1.83	39.54	-55.72	-13.00	-42.72
2722.0	V	-	-	-78.04	2.94	31.90	-63.36	-13.00	-50.36
3402.5	H	-	-	-77.30	-1.11	28.58	-66.67	-13.00	-53.67
4083.0	V	-	-	-79.38	6.11	33.73	-61.53	-13.00	-48.53

Table 7-18. Antenna BCM Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

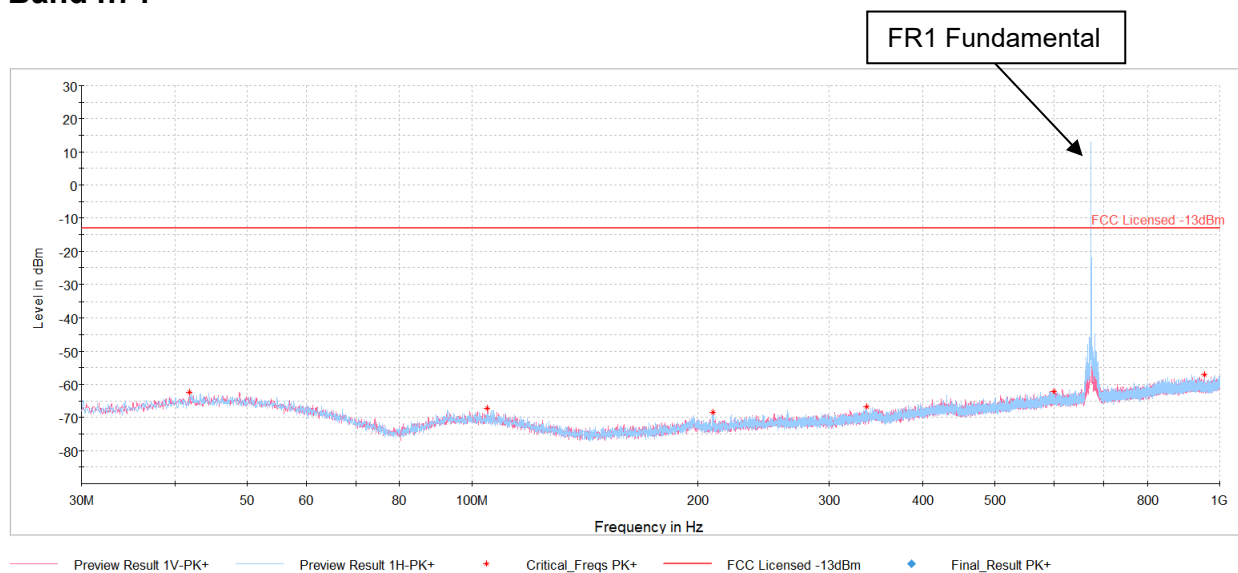
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	115	194	-71.29	-1.23	34.49	-60.77	-13.00	-47.77
2064.0	V	-	-	-77.93	1.83	30.90	-64.35	-13.00	-51.35
2752.0	V	-	-	-78.28	3.38	32.10	-63.16	-13.00	-50.16
3440.0	H	-	-	-79.23	4.55	32.31	-62.94	-13.00	-49.94

Table 7-19. Antenna BCM Radiated Spurious Data (LTE Band 71 – High Channel)

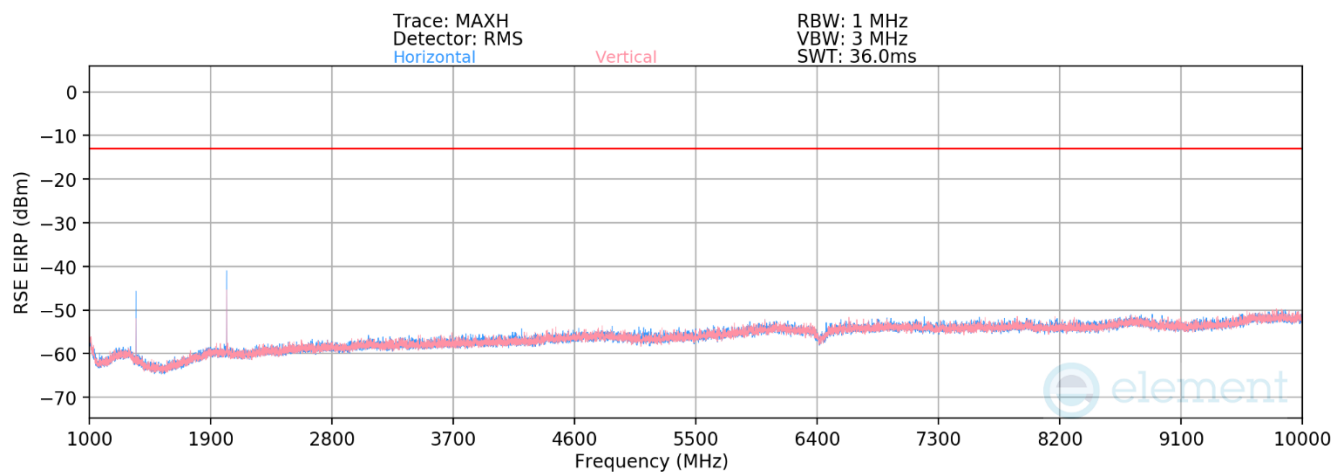
FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71



Plot 7-286. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-287. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 185 of 202

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Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	120	302	-64.19	-0.67	42.14	-53.12	-13.00	-40.12
2019.0	H	155	245	-59.23	0.39	48.16	-47.09	-13.00	-34.09
2692.0	H	-	-	-77.12	1.38	31.27	-63.99	-13.00	-50.99
3365.0	H	-	-	-77.83	2.53	31.70	-63.56	-13.00	-50.56
4038.0	H	-	-	-78.26	4.07	32.81	-62.45	-13.00	-49.45

Table 7-20. Antenna BCM Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	215	298	-63.96	-0.89	42.15	-53.11	-13.00	-40.11
2041.5	H	285	290	-63.14	0.40	44.26	-50.99	-13.00	-37.99
2722.0	H	-	-	-77.23	1.41	31.18	-64.07	-13.00	-51.07
3402.5	H	-	-	-77.43	2.44	32.01	-63.25	-13.00	-50.25
4083.0	H	-	-	-78.48	3.82	32.34	-62.92	-13.00	-49.92

Table 7-21. Antenna BCM Radiated Spurious Data (NR Band n71 – Mid Channel)

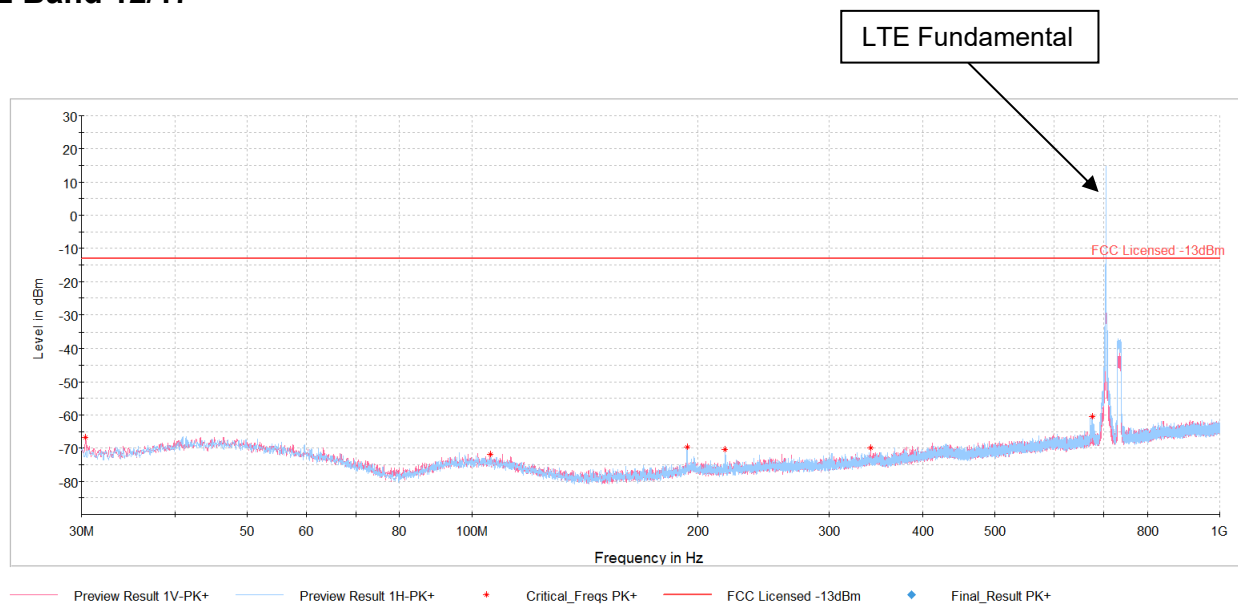
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

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]
1376.0	H	200	300	-64.87	-1.10	41.03	-54.23	-13.00	-41.23
2064.0	H	165	247	-59.68	0.22	47.54	-47.72	-13.00	-34.72
2752.0	H	-	-	-77.49	1.75	31.26	-63.99	-13.00	-50.99
3440.0	H	-	-	-77.47	2.67	32.20	-63.06	-13.00	-50.06
4128.0	H	-	-	-77.95	3.90	32.95	-62.31	-13.00	-49.31

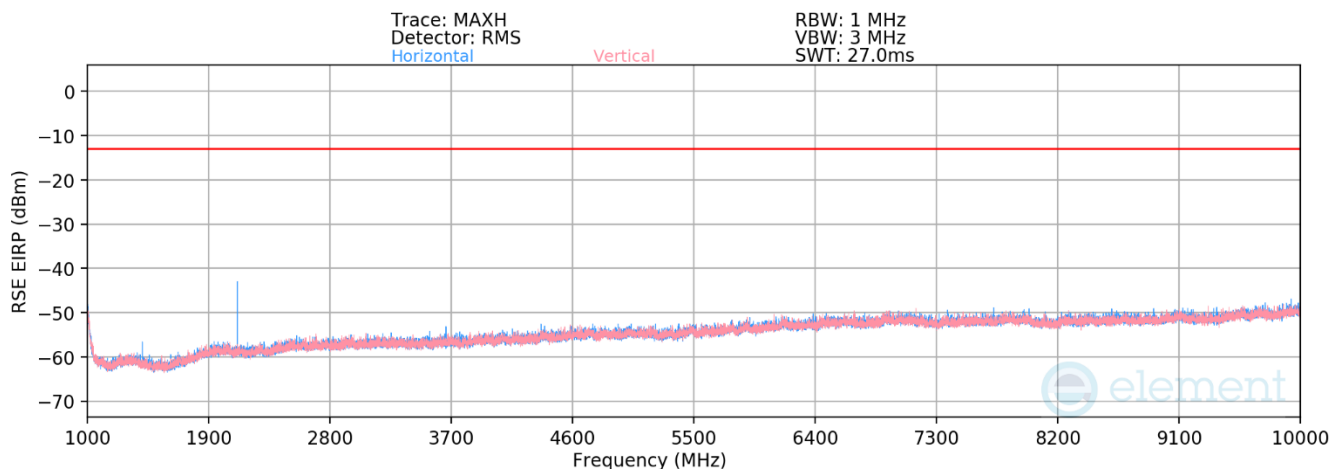
Table 7-22. Antenna BCM Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-288. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-289. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCG-A3328	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 187 of 202

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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	210	114	-70.97	-1.98	34.05	-61.20	-13.00	-48.20
2112.0	H	100	39	-66.40	1.45	42.05	-53.21	-13.00	-40.21
2816.0	V	-	-	-78.52	3.23	31.70	-63.55	-13.00	-50.55
3520.0	H	-	-	-78.99	4.52	32.53	-62.72	-13.00	-49.72
4224.0	V	-	-	-80.35	6.58	33.22	-62.04	-13.00	-49.04

Table 7-23. 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	225	110	-72.14	-1.98	32.88	-62.38	-13.00	-49.38
2122.5	H	331	35	-69.81	1.42	38.61	-56.65	-13.00	-43.65
2830.0	V	-	-	-78.48	3.60	32.12	-63.14	-13.00	-50.14
3537.5	H	-	-	-79.67	5.32	32.64	-62.61	-13.00	-49.61
4245.0	V	-	-	-79.91	6.92	34.01	-61.25	-13.00	-48.25

Table 7-24. 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	182	91	-72.50	-1.98	32.52	-62.74	-13.00	-49.74
2133.0	H	224	11	-66.53	1.42	41.89	-53.37	-13.00	-40.37
2844.0	V	-	-	-78.61	3.76	32.15	-63.11	-13.00	-50.11
3555.0	H	-	-	-79.66	5.36	32.69	-62.56	-13.00	-49.56
4266.0	V	-	-	-80.43	6.99	33.56	-61.70	-13.00	-48.70

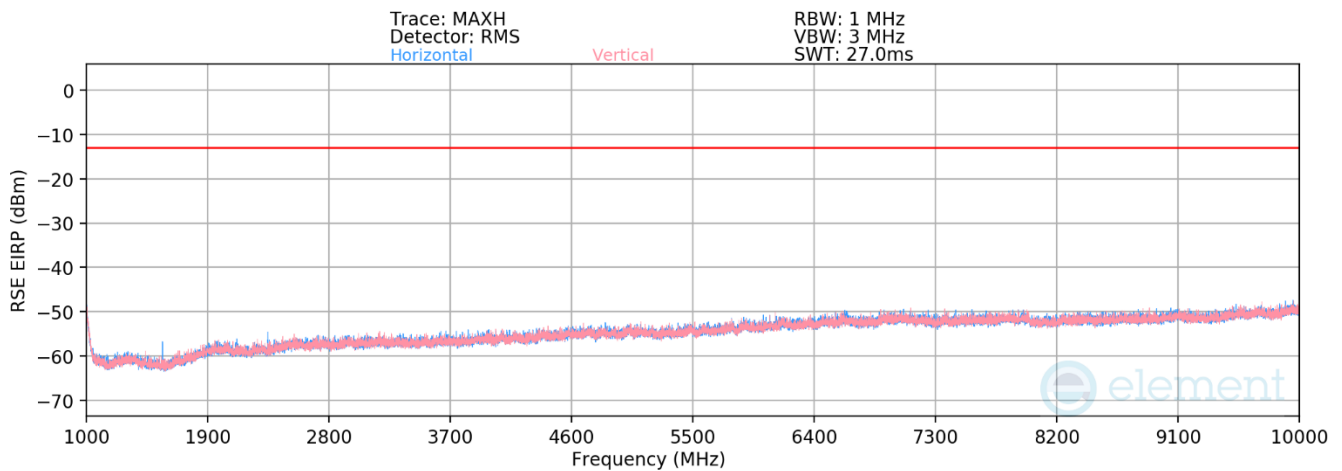
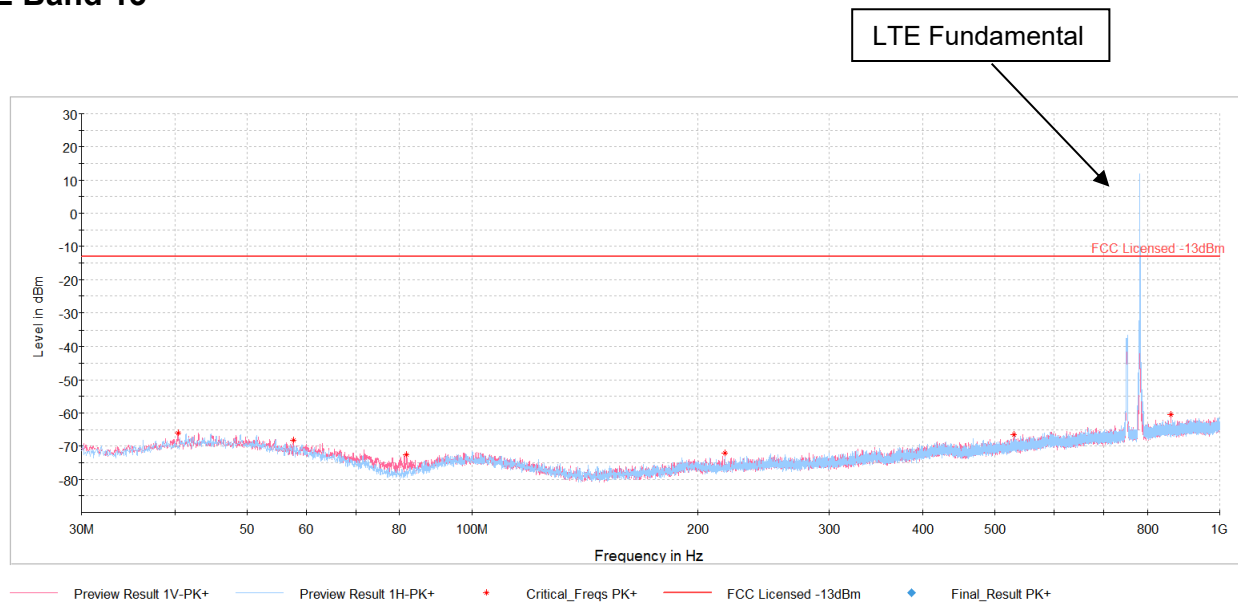
Table 7-25. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – High Channel)


FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 188 of 202

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LTE Band 13



FCC ID: BCG-A3328		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 189 of 202

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Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	114	88	-74.37	-2.44	30.19	-65.06	-40.00	-25.06
2338.5	H	-	-	-78.19	1.74	30.55	-64.70	-13.00	-51.70
3118.0	V	-	-	-78.90	4.33	32.43	-62.82	-13.00	-49.82
3897.5	V	-	-	-79.66	5.88	33.22	-62.04	-13.00	-49.04

Table 7-26. Antenna BCM Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	5
Frequency (MHz):	782.0
RB / Offset:	1 / 12


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	136	84	-70.91	-2.36	33.73	-61.53	-40.00	-21.53
2346.0	H	250	360	-77.45	1.71	31.25	-64.00	-13.00	-51.00
3128.0	V	-	-	-78.78	4.34	32.56	-62.70	-13.00	-49.70
3910.0	V	-	-	-79.74	5.93	33.19	-62.07	-13.00	-49.07
4692.0	H	-	-	-80.02	7.46	34.44	-60.82	-13.00	-47.82

Table 7-27. Antenna BCM Radiated Spurious Data (LTE Band 13 – Mid Channel)

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

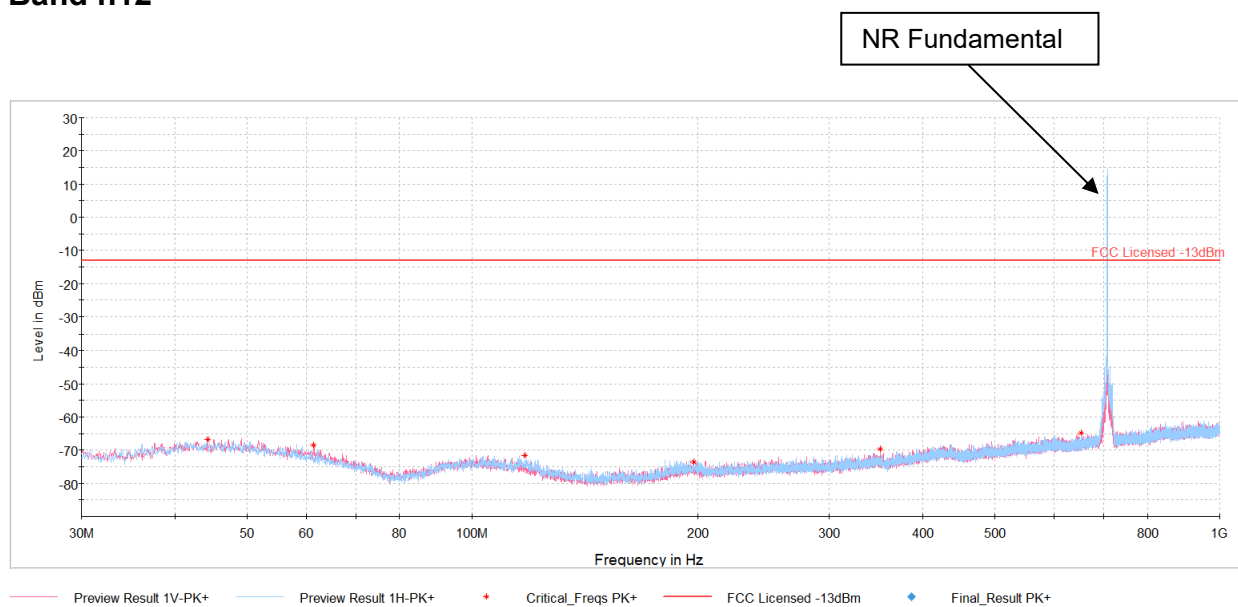
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	192	317	-73.98	-2.36	30.66	-64.60	-40.00	-24.60
2353.5	H	-	-	-77.90	1.60	30.71	-64.55	-13.00	-51.55
3138.0	H	-	-	-78.96	4.39	32.43	-62.83	-13.00	-49.83
3922.5	H	-	-	-80.04	6.10	33.06	-62.20	-13.00	-49.20

Table 7-28. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)

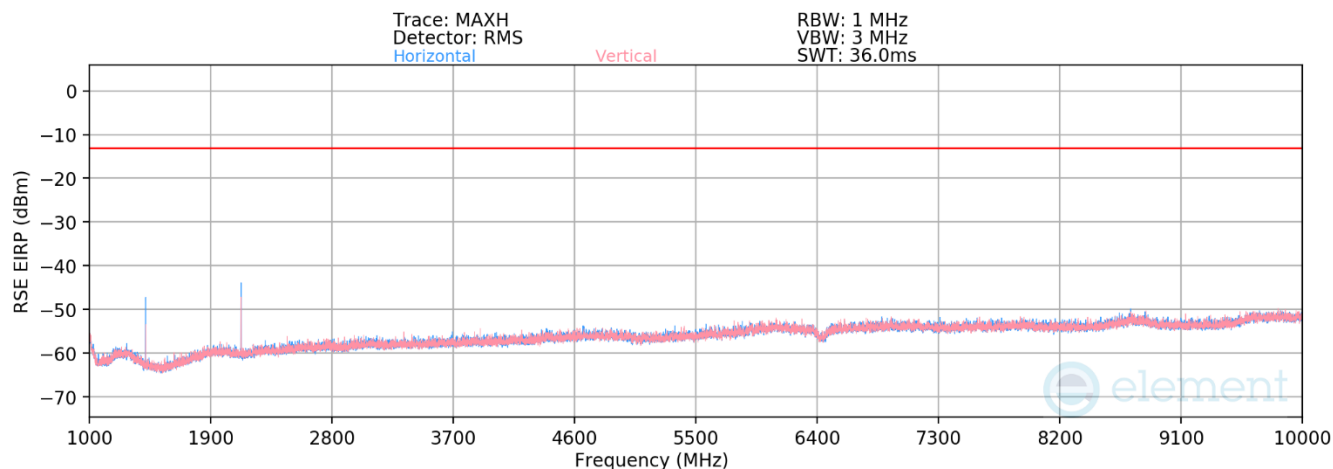
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NR Band n12



Plot 7-292. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-293. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n12)

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Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1/37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	207	301	-64.89	-2.37	39.74	-55.52	-13.00	-42.52
2119.5	H	122	304	-76.76	-0.32	29.92	-65.33	-13.00	-52.33
2826.0	H	-	-	-77.01	1.54	31.52	-63.73	-13.00	-50.73
3532.5	H	-	-	-77.87	2.91	32.05	-63.21	-13.00	-50.21
4239.0	H	-	-	-78.12	4.15	33.03	-62.23	-13.00	-49.23

Table 7-29. Antenna BCM Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1/37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	215	304	-66.86	-2.37	37.78	-57.48	-13.00	-44.48
2122.5	H	250	296	-71.34	-0.32	35.35	-59.91	-13.00	-46.91
2830.0	H	-	-	-76.99	1.54	31.54	-63.72	-13.00	-50.72
3537.5	H	-	-	-77.89	2.85	31.96	-63.29	-13.00	-50.29
4245.0	H	-	-	-78.74	4.30	32.56	-62.70	-13.00	-49.70

Table 7-30. Antenna BCM Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1/37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	211	293	-67.19	-2.37	37.44	-57.82	-13.00	-44.82
2125.5	H	266	275	-56.92	-0.18	49.90	-45.36	-13.00	-32.36
2834.0	H	-	-	-77.19	1.42	31.23	-64.03	-13.00	-51.03
3542.5	H	-	-	-77.57	2.85	32.28	-62.98	-13.00	-49.98
4251.0	H	-	-	-78.44	4.15	32.71	-62.55	-13.00	-49.55

Table 7-31. Antenna BCM Radiated Spurious Data (NR Band n12 – 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.

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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.

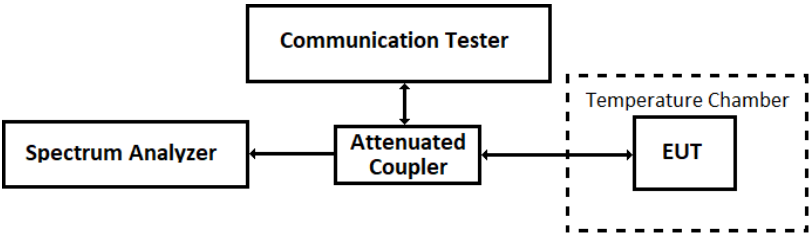


Figure 7-13. LTE Test Instrument & Measurement Setup

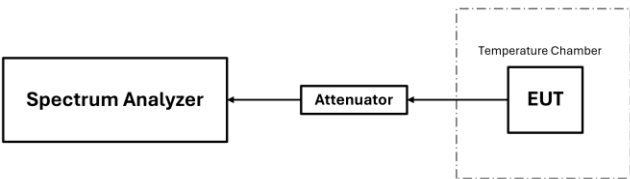



Figure 7-14. NR Test Instrument & Measurement Setup

Test Notes

N/A

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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	1.71089940	-0.00089940
		- 20	1.71044300	-0.00044300
		- 10	1.71089270	-0.00089270
		0	1.71084450	-0.00084450
		+ 10	1.71090060	-0.00090060
		+ 20 (Ref)	1.71040860	-0.00040860
		+ 30	1.71077090	-0.00077090
		+ 40	1.71032420	-0.00032420
		+ 50	1.71075280	-0.00075280
Battery Endpoint	3.40	+ 20	1.71074890	-0.00074890

Table 7-32. 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	1.77965170	-0.00034830
		- 20	1.77924550	-0.00075450
		- 10	1.77940550	-0.00059450
		0	1.77967370	-0.00032630
		+ 10	1.77944540	-0.00055460
		+ 20 (Ref)	1.77947300	-0.00052700
		+ 30	1.77944200	-0.00055800
		+ 40	1.77959000	-0.00041000
		+ 50	1.77943480	-0.00056520
Battery Endpoint	3.40	+ 20	1.77937710	-0.00062290

Table 7-33. LTE Band 66/4 Upper Boundary Frequency Stability Data

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LTE Band 71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66398430	-0.00098430
		- 20	0.66341640	-0.00041640
		- 10	0.66358180	-0.00058180
		0	0.66372700	-0.00072700
		+ 10	0.66349220	-0.00049220
		+ 20 (Ref)	0.66359390	-0.00059390
		+ 30	0.66353180	-0.00053180
		+ 40	0.66353980	-0.00053980
		+ 50	0.66368940	-0.00068940
Battery Endpoint	3.40	+ 20	0.66344260	-0.00044260

Table 7-34. LTE Band 71 Lower Boundary Frequency Stability Data

LTE Band 71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69707370	-0.00092630
		- 20	0.69728370	-0.00071630
		- 10	0.69720740	-0.00079260
		0	0.69696690	-0.00103310
		+ 10	0.69671610	-0.00128390
		+ 20 (Ref)	0.69686690	-0.00113310
		+ 30	0.69747130	-0.00052870
		+ 40	0.69765190	-0.00034810
		+ 50	0.69704480	-0.00095520
Battery Endpoint	3.40	+ 20	0.69692820	-0.00107180

Table 7-35. LTE Band 71 Upper Boundary Frequency Stability Data

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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	0.69998410	-0.00198410
		- 20	0.69934050	-0.00134050
		- 10	0.69933890	-0.00133890
		0	0.69934720	-0.00134720
		+ 10	0.69972290	-0.00172290
		+ 20 (Ref)	0.69949040	-0.00149040
		+ 30	0.69935040	-0.00135040
		+ 40	0.69974840	-0.00174840
		+ 50	0.69930690	-0.00130690
Battery Endpoint	3.40	+ 20	0.69934180	-0.00134180

Table 7-36. 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	0.71517320	-0.00082680
		- 20	0.71513340	-0.00086660
		- 10	0.71528060	-0.00071940
		0	0.71525900	-0.00074100
		+ 10	0.71534210	-0.00065790
		+ 20 (Ref)	0.71526830	-0.00073170
		+ 30	0.71531290	-0.00068710
		+ 40	0.71520760	-0.00079240
		+ 50	0.71522350	-0.00077650
Battery Endpoint	3.40	+ 20	0.71526100	-0.00073900

Table 7-37. LTE Band 12/17 Upper Boundary Frequency Stability Data

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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	0.77811790	-0.00111790
		- 20	0.77765470	-0.00065470
		- 10	0.77742710	-0.00042710
		0	0.77760390	-0.00060390
		+ 10	0.77809580	-0.00109580
		+ 20 (Ref)	0.77760920	-0.00060920
		+ 30	0.77809650	-0.00109650
		+ 40	0.77763860	-0.00063860
		+ 50	0.77816000	-0.00116000
Battery Endpoint	3.40	+ 20	0.77775540	-0.00075540

Table 7-38. 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	0.78693260	-0.00006740
		- 20	0.78627390	-0.00072610
		- 10	0.78650200	-0.00049800
		0	0.78637200	-0.00062800
		+ 10	0.78639940	-0.00060060
		+ 20 (Ref)	0.78686630	-0.00013370
		+ 30	0.78630120	-0.00069880
		+ 40	0.78621590	-0.00078410
		+ 50	0.78606850	-0.00093150
Battery Endpoint	3.40	+ 20	0.78605270	-0.00094730

Table 7-39. LTE Band 13 Upper Boundary Frequency Stability Data

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NR Band n66				
		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	1.71036070	-0.00036070
		- 20	1.71070530	-0.00070530
		- 10	1.71072390	-0.00072390
		0	1.71050690	-0.00050690
		+ 10	1.71012560	-0.00012560
		+ 20 (Ref)	1.71053680	-0.00053680
		+ 30	1.71071490	-0.00071490
		+ 40	1.71040610	-0.00040610
		+ 50	1.71049470	-0.00049470
Battery Endpoint	3.40	+ 20	1.71059040	-0.00059040

Table 7-40. NR Band n66 Lower Boundary Frequency Stability Data

NR Band n66				
		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	1.77986530	-0.00013470
		- 20	1.77936130	-0.00063870
		- 10	1.77928350	-0.00071650
		0	1.77962830	-0.00037170
		+ 10	1.77944380	-0.00055620
		+ 20 (Ref)	1.77973610	-0.00026390
		+ 30	1.77913820	-0.00086180
		+ 40	1.77940560	-0.00059440
		+ 50	1.77957770	-0.00042230
Battery Endpoint	3.40	+ 20	1.77915280	-0.00084720

Table 7-41. NR Band n66 Upper Boundary Frequency Stability Data

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NR Band n71				
Operating Band Lower Boundary (GHz)			0.663	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.66385140	-0.00085140
		- 20	0.66347470	-0.00047470
		- 10	0.66363650	-0.00063650
		0	0.66347250	-0.00047250
		+ 10	0.66381410	-0.00081410
		+ 20 (Ref)	0.66366360	-0.00066360
		+ 30	0.66366500	-0.00066500
		+ 40	0.66349900	-0.00049900
		+ 50	0.66343500	-0.00043500
Battery Endpoint	3.40	+ 20	0.66349290	-0.00049290

Table 7-42. NR Band n71 Lower Boundary Frequency Stability Data

NR Band n71				
Operating Band Upper Boundary (GHz)			0.698	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.69758310	-0.00041690
		- 20	0.69767070	-0.00032930
		- 10	0.69777240	-0.00022760
		0	0.69720400	-0.00079600
		+ 10	0.69774370	-0.00025630
		+ 20 (Ref)	0.69767470	-0.00032530
		+ 30	0.69767250	-0.00032750
		+ 40	0.69746500	-0.00053500
		+ 50	0.69779160	-0.00020840
Battery Endpoint	3.40	+ 20	0.69720090	-0.00079910

Table 7-43. NR Band n71 Upper Boundary Frequency Stability Data

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NR Band n12				
		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	0.69994990	-0.00094990
		- 20	0.69944330	-0.00044330
		- 10	0.69951220	-0.00051220
		0	0.69969030	-0.00069030
		+ 10	0.69954800	-0.00054800
		+ 20 (Ref)	0.69948550	-0.00048550
		+ 30	0.69954910	-0.00054910
		+ 40	0.69978160	-0.00078160
		+ 50	0.69984290	-0.00084290
Battery Endpoint	3.40	+ 20	0.69920940	-0.00020940

Table 7-44. NR Band n12 Lower Boundary Frequency Stability Data

NR Band n12				
		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	0.71579720	-0.00020280
		- 20	0.71512780	-0.00087220
		- 10	0.71510040	-0.00089960
		0	0.71562450	-0.00037550
		+ 10	0.71542640	-0.00057360
		+ 20 (Ref)	0.71507730	-0.00092270
		+ 30	0.71550960	-0.00049040
		+ 40	0.71525460	-0.00074540
		+ 50	0.71552820	-0.00047180
Battery Endpoint	3.40	+ 20	0.71540540	-0.00059460


Table 7-45. NR Band n12 Upper Boundary 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-A3328** complies with all the requirements of Part 27 of the FCC rules.

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