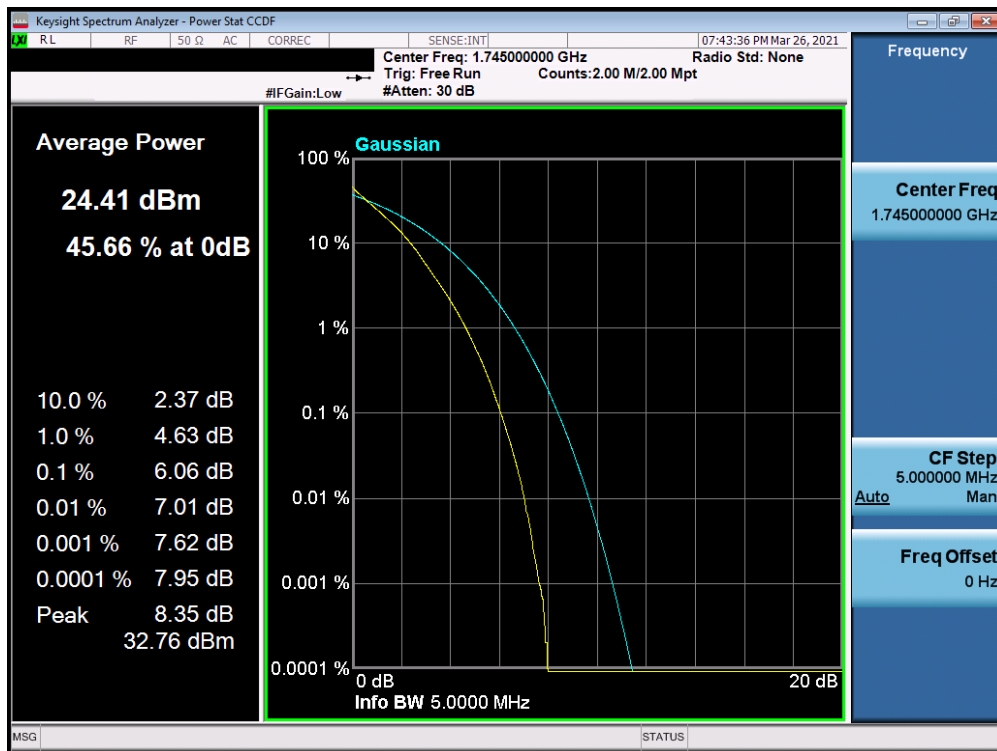
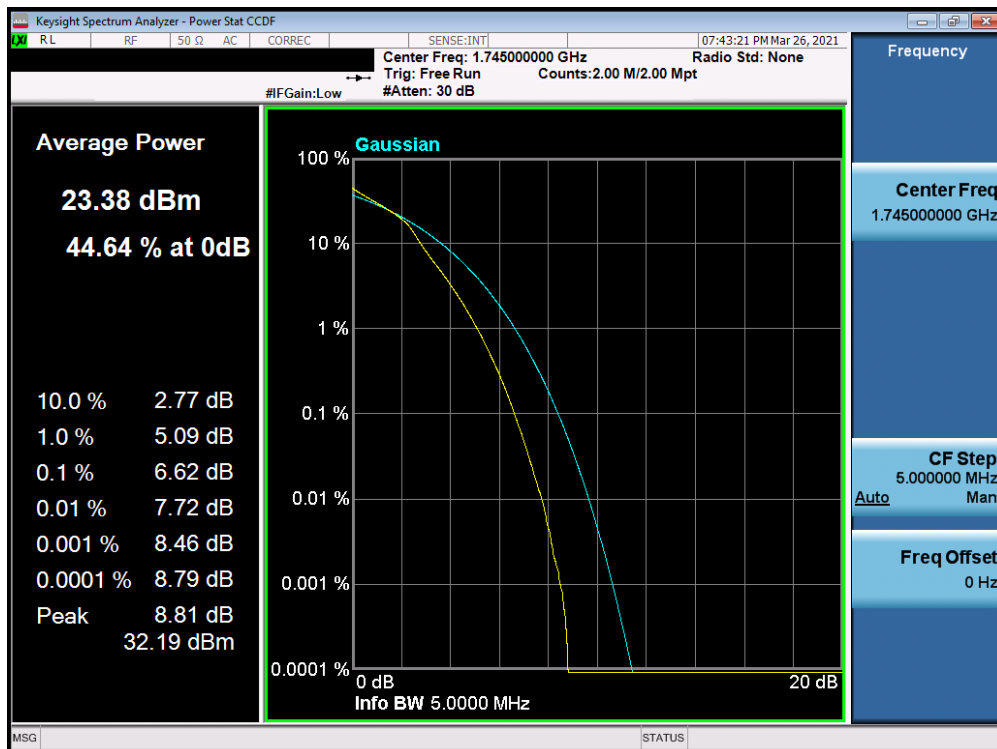


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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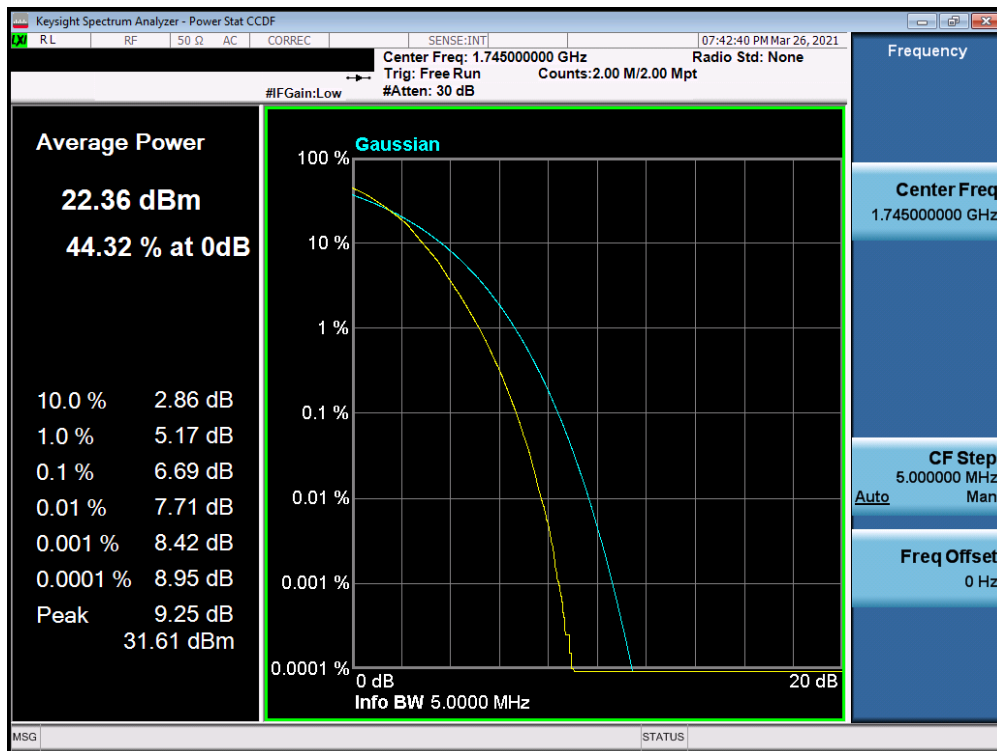


Plot 7-175. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB Configuration)

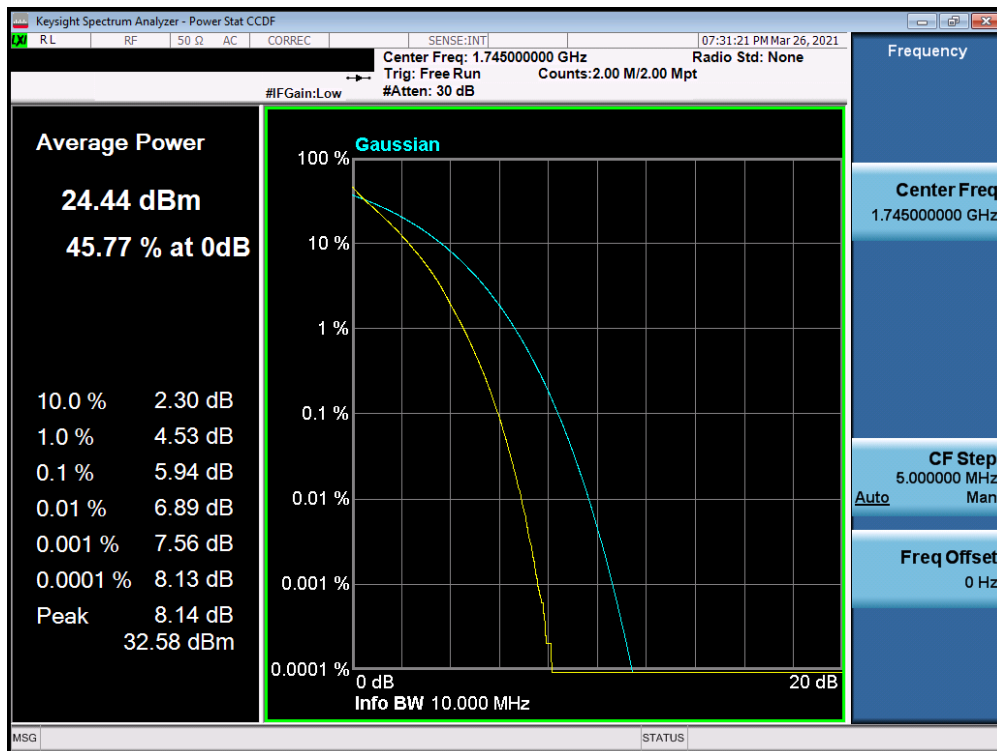


Plot 7-176. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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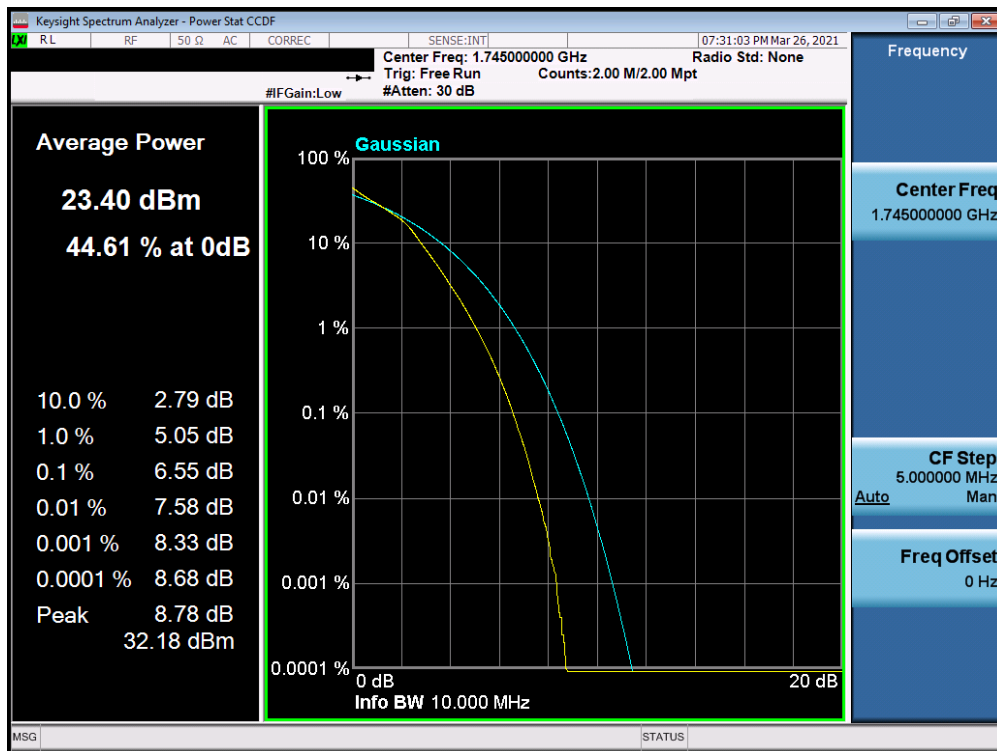


Plot 7-177. PAR Plot (LTE Band 66 - 5MHz 64-QAM - Full RB Configuration)

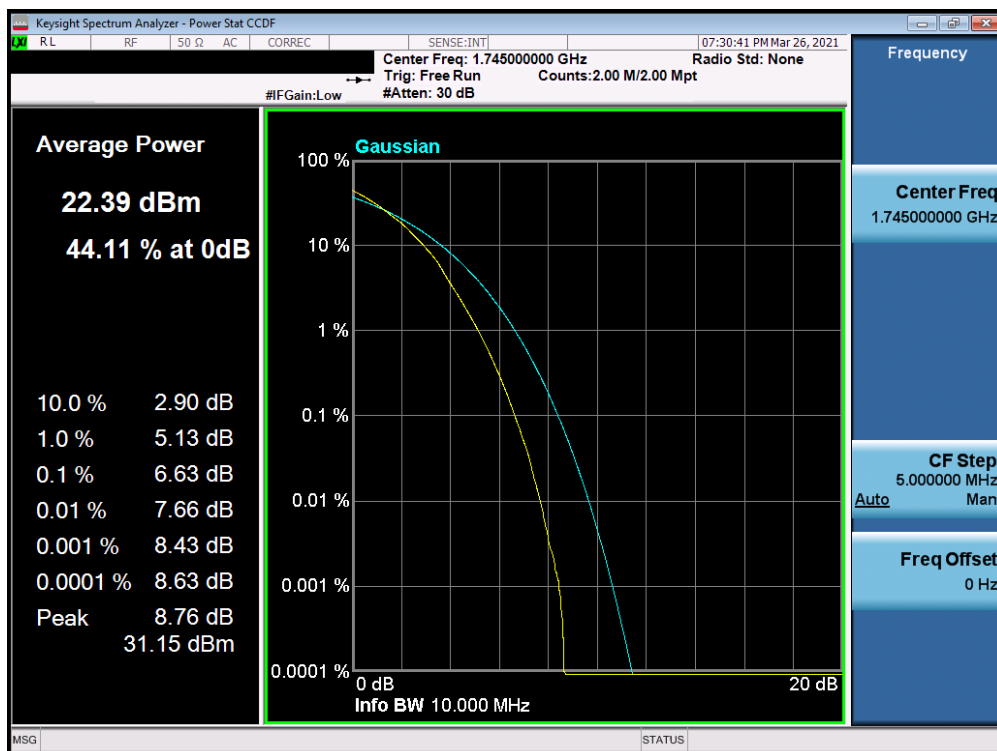


Plot 7-178. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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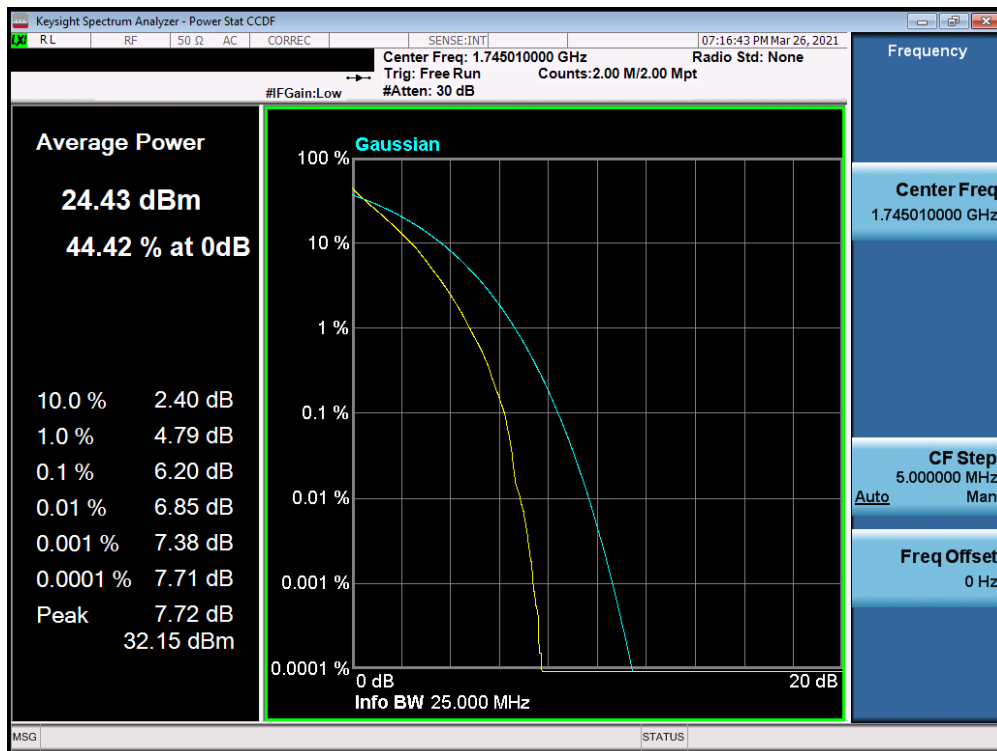


Plot 7-179. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB Configuration)

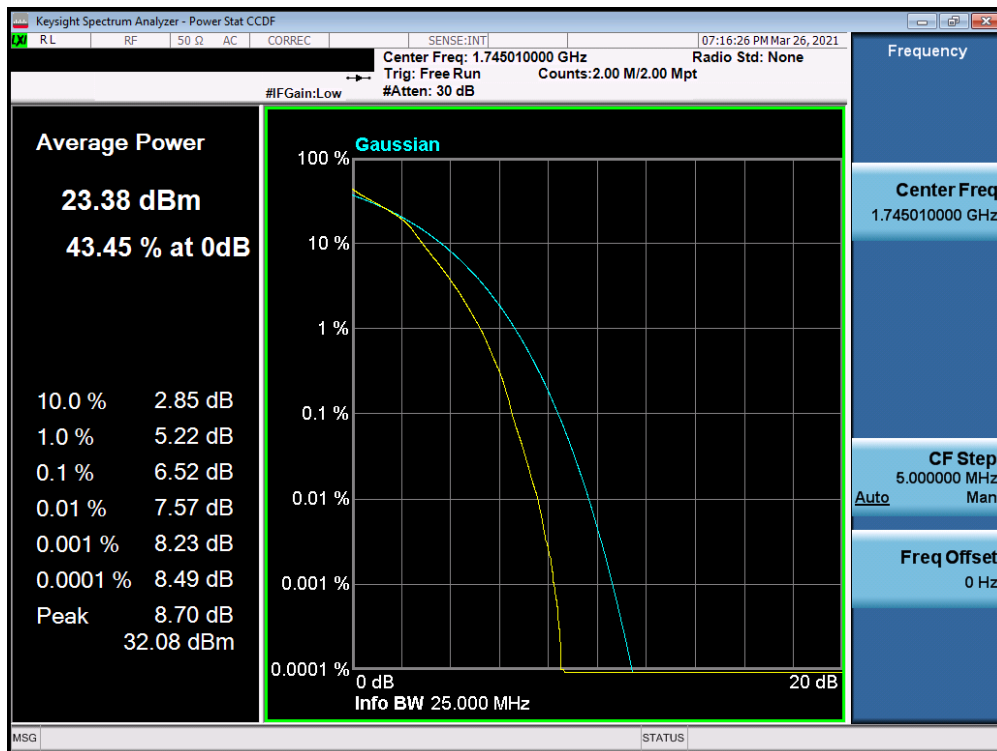


Plot 7-180. PAR Plot (LTE Band 66 - 10MHz 64-QAM - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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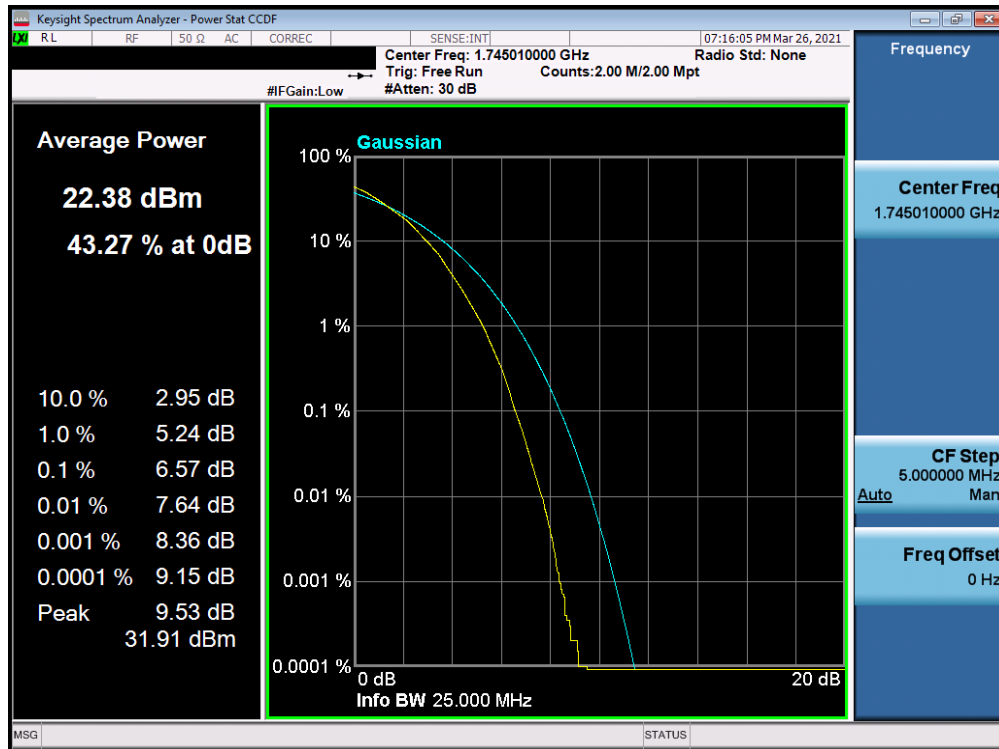


Plot 7-181. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB Configuration)

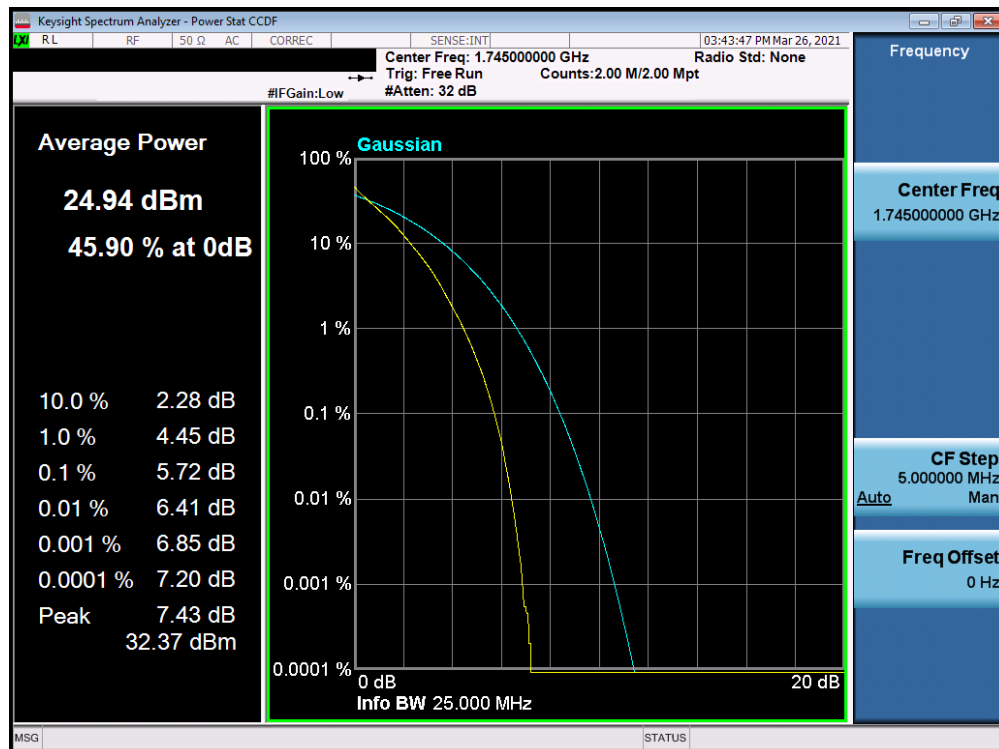


Plot 7-182. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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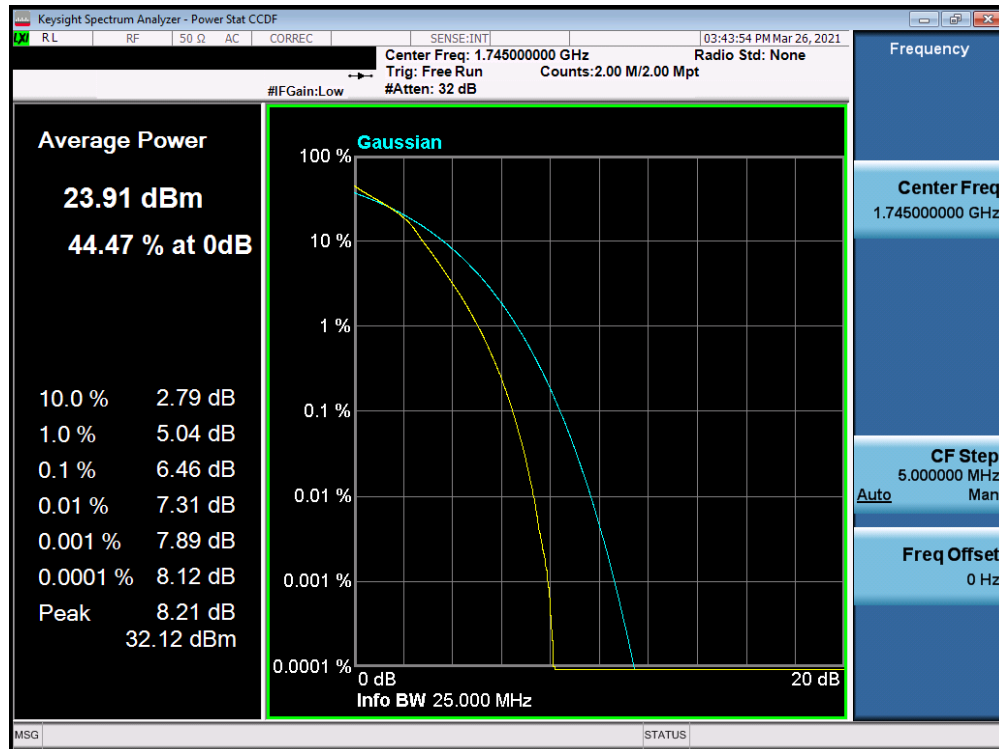


Plot 7-183. PAR Plot (LTE Band 66 - 15MHz 64-QAM - Full RB Configuration)

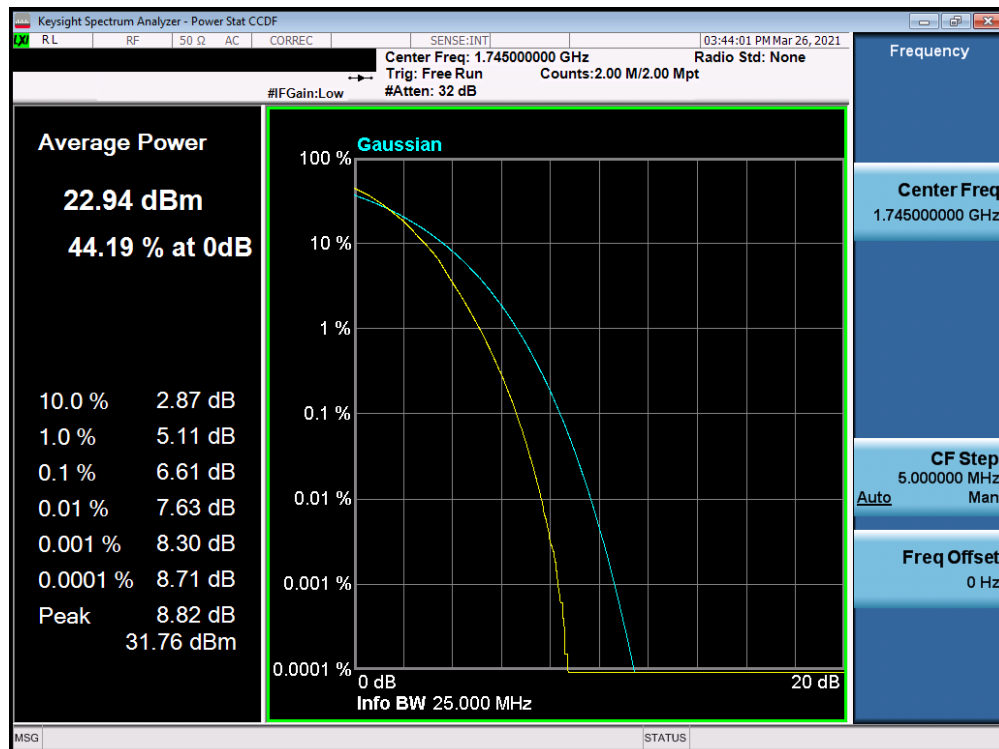


Plot 7-184. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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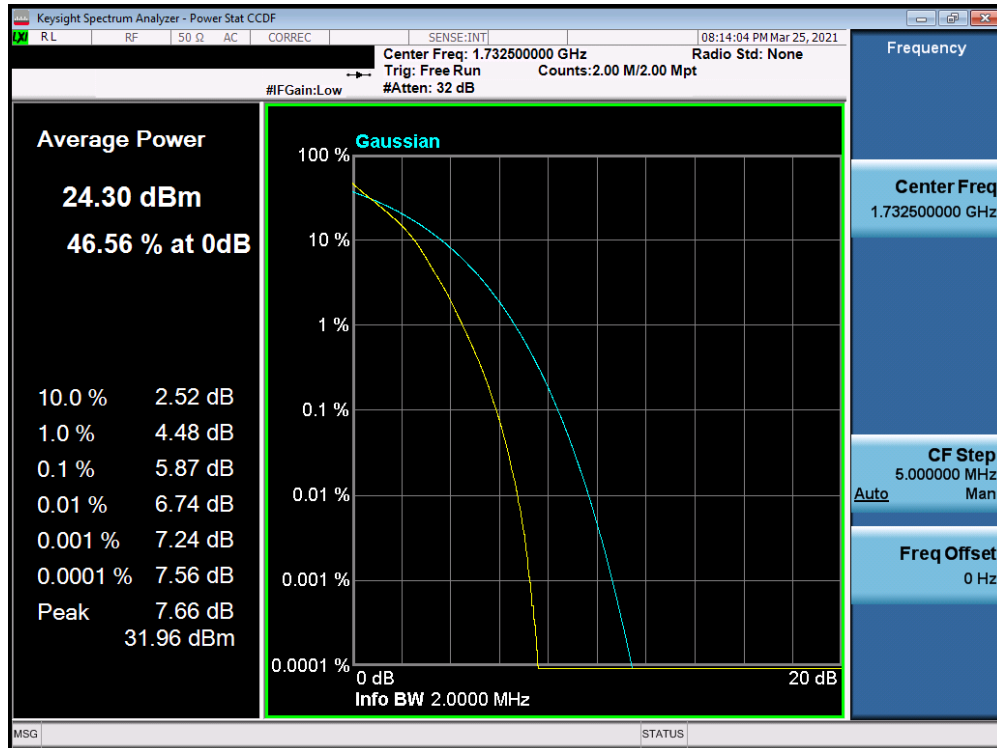
Plot 7-185. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB Configuration)



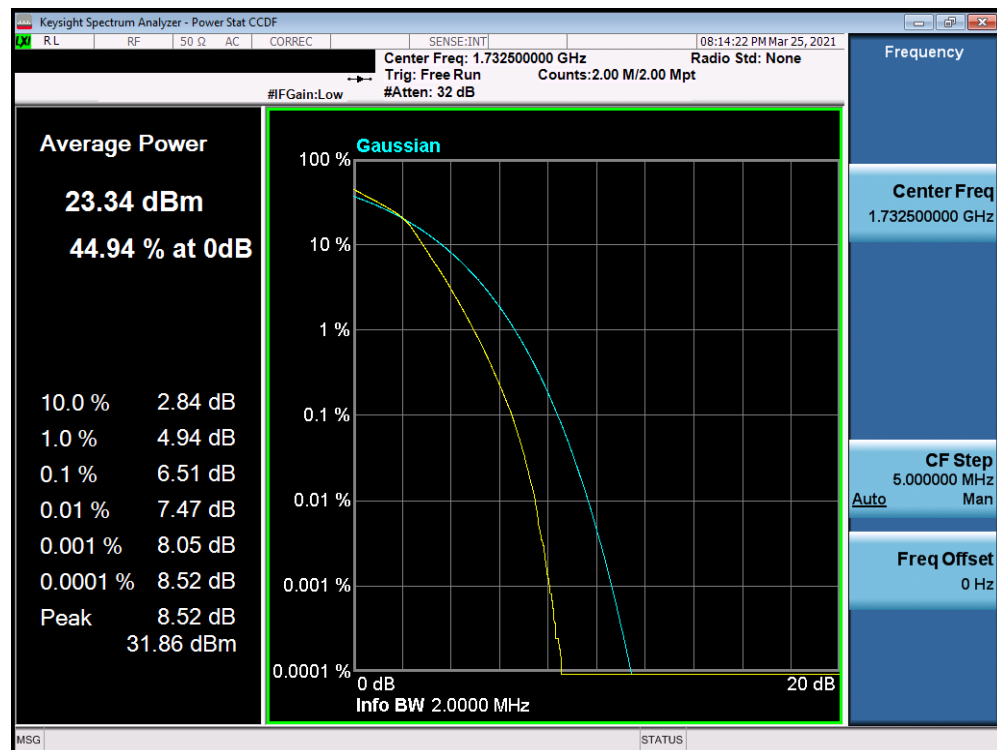
Plot 7-186. PAR Plot (LTE Band 66 - 20MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 115 of 158

LTE Band 4

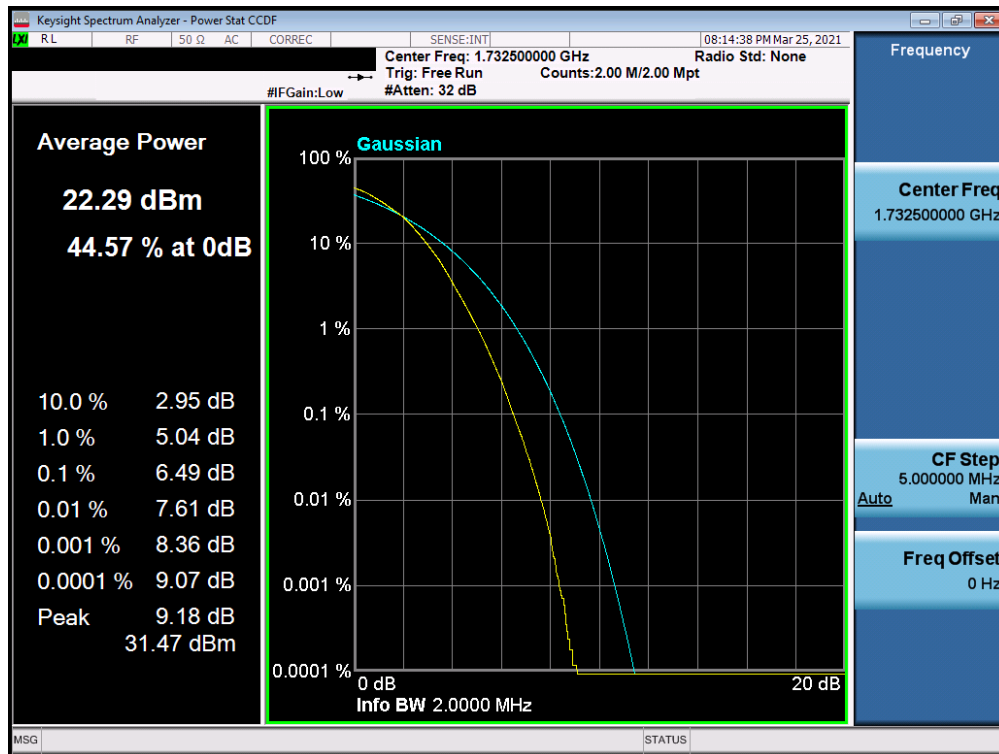


Plot 7-187. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB Configuration)

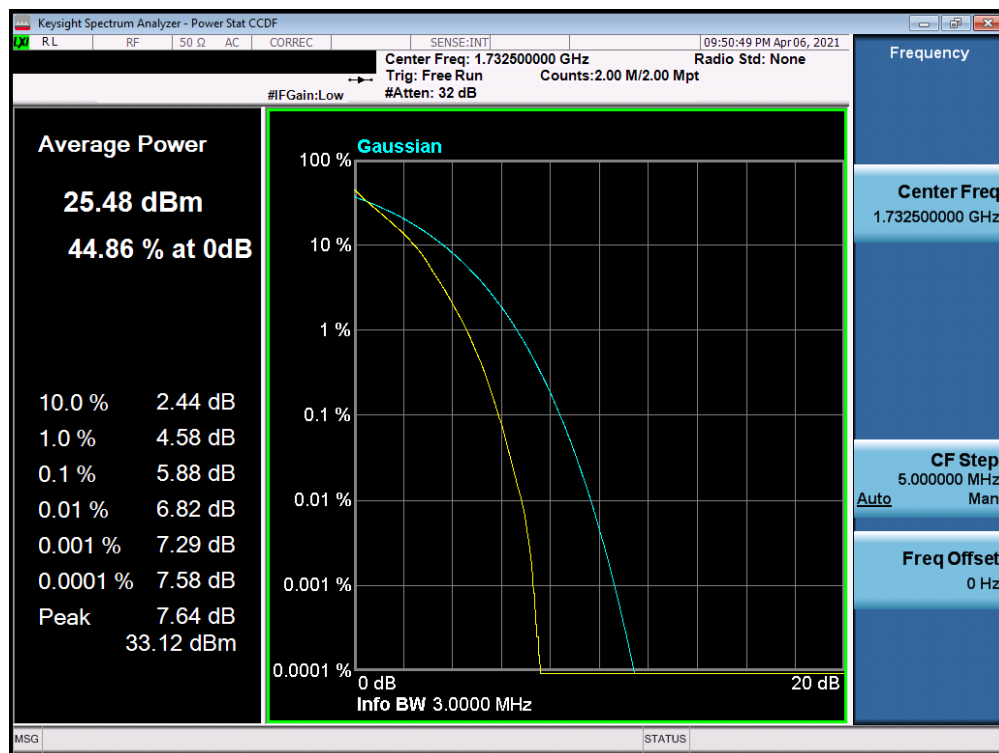


Plot 7-188. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 116 of 158

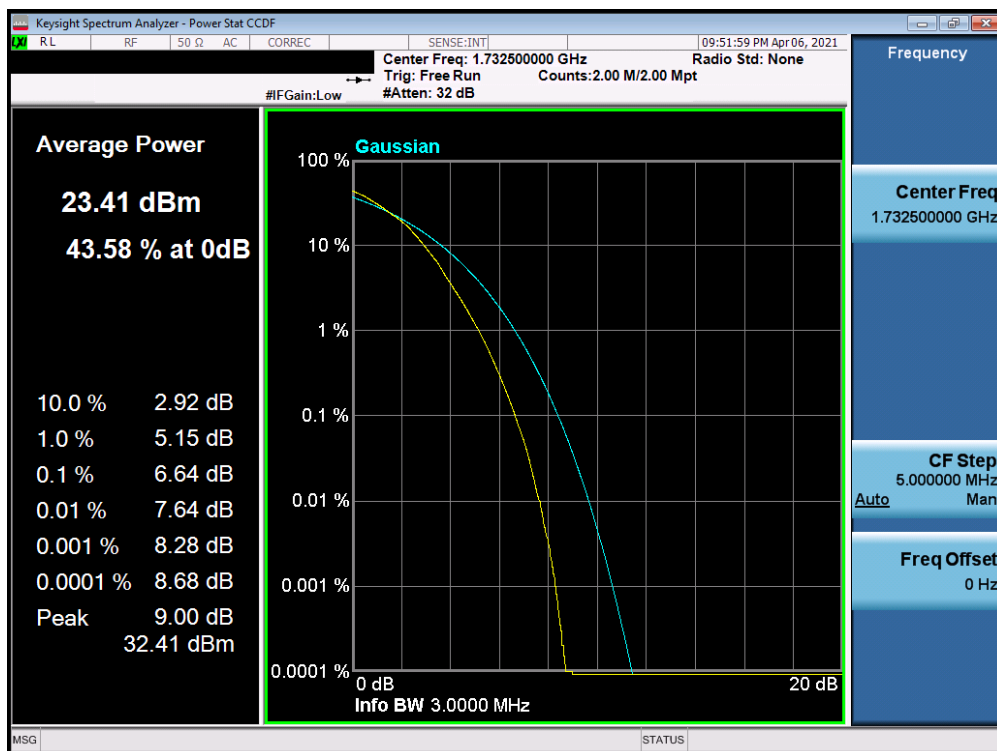
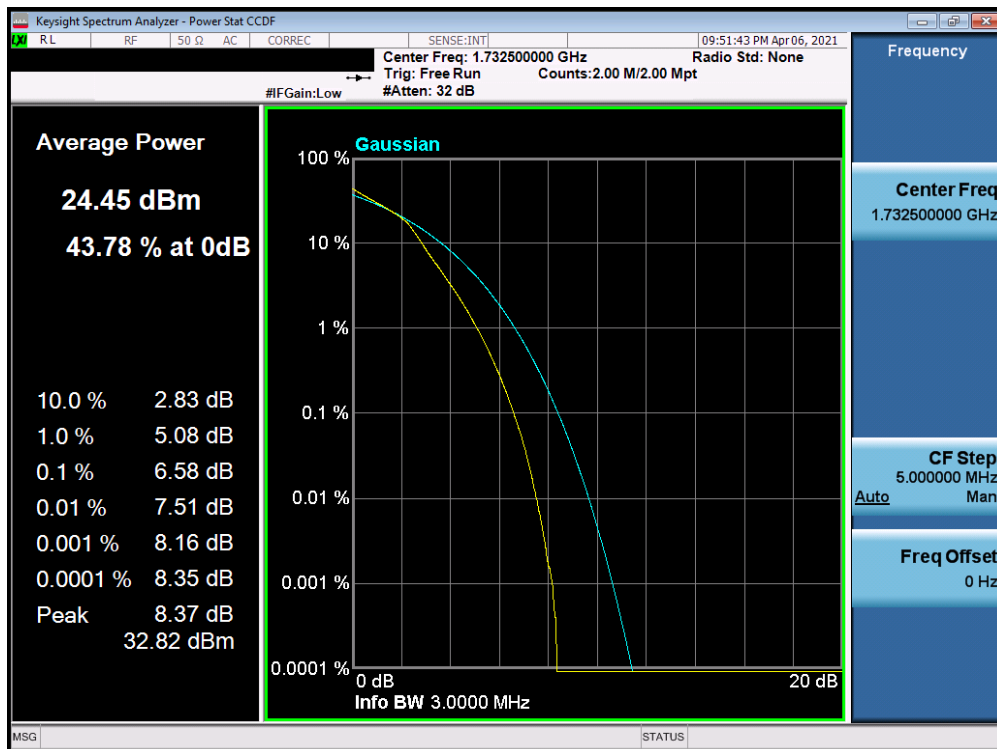


Plot 7-189. PAR Plot (LTE Band 4 - 1.4MHz 64-QAM - Full RB Configuration)

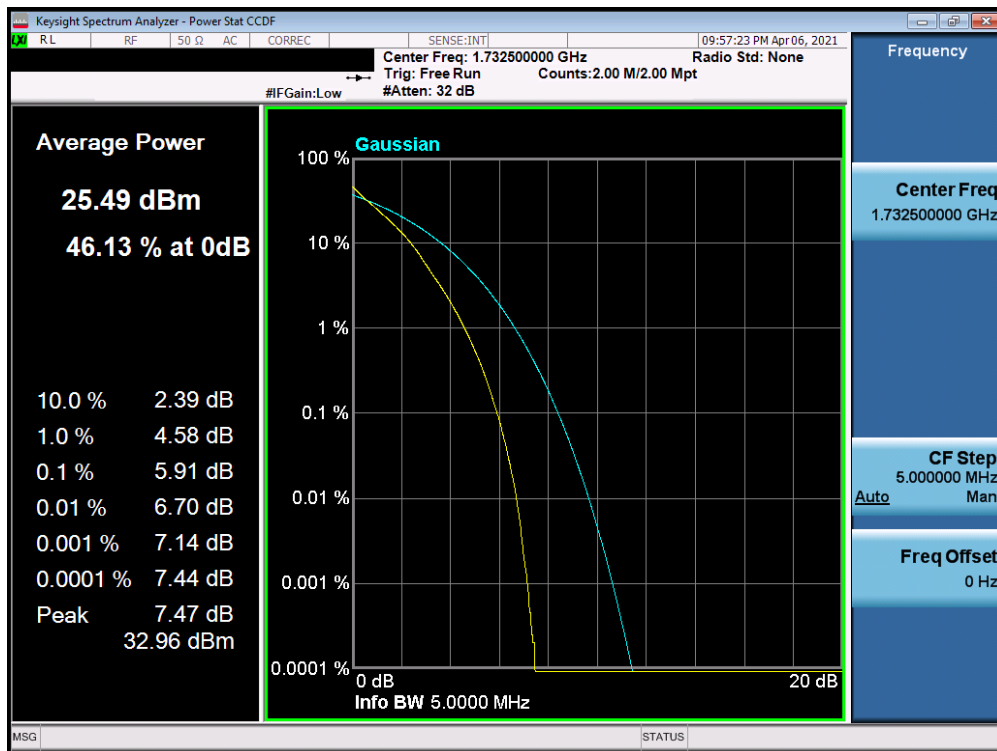


Plot 7-190. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB Configuration)

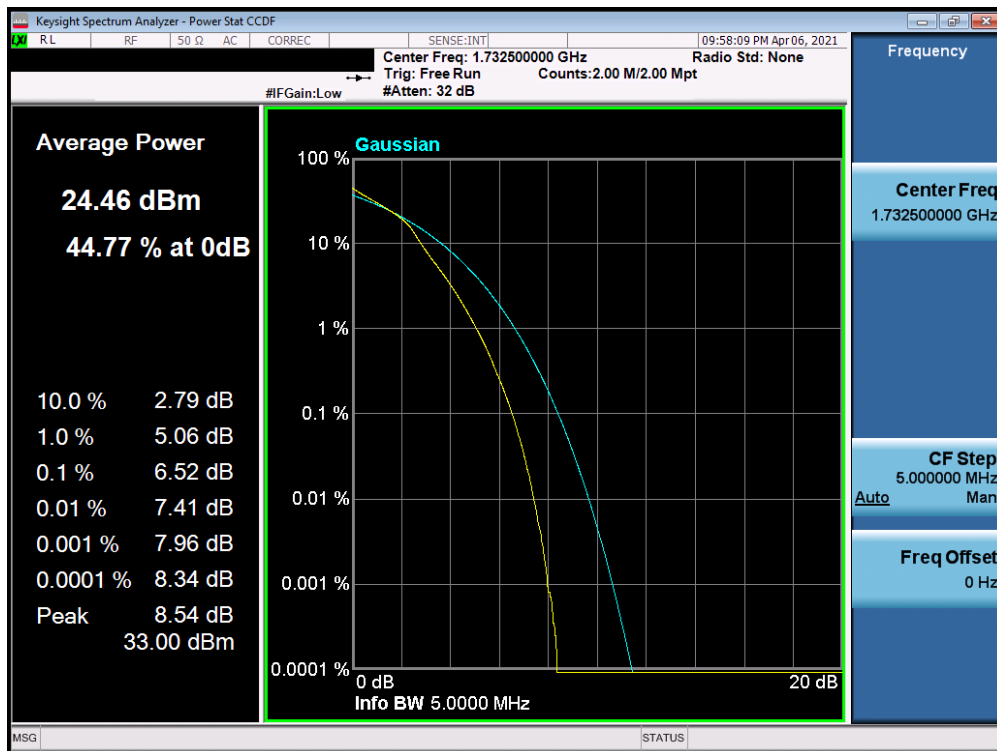
FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 117 of 158



FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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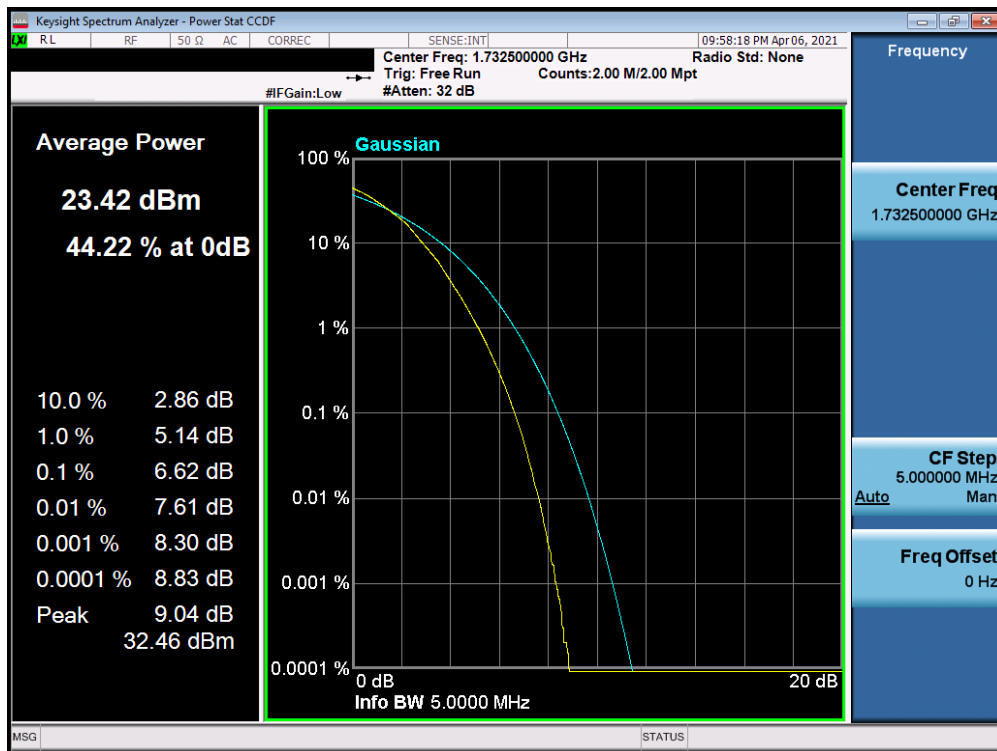


Plot 7-193. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB Configuration)

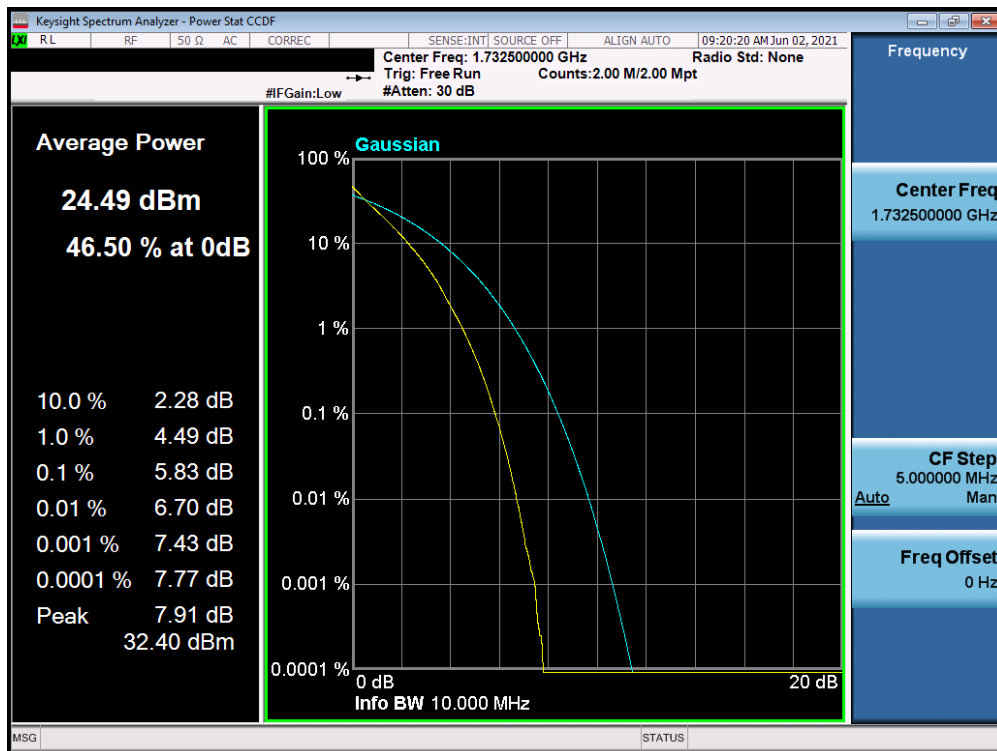


Plot 7-194. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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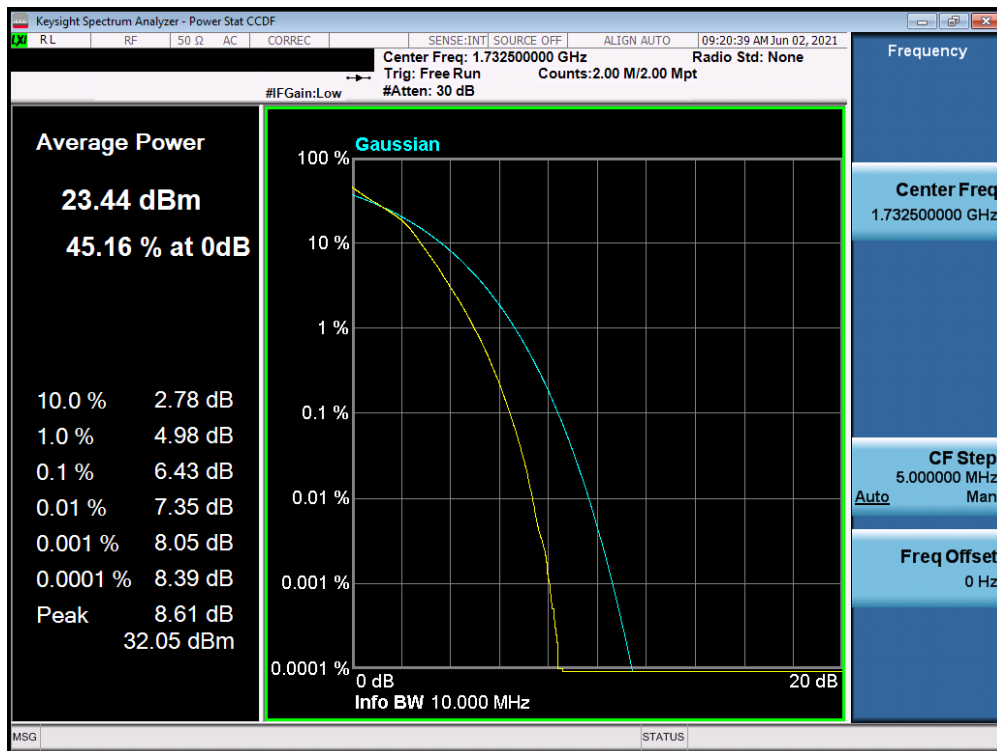


Plot 7-195. PAR Plot (LTE Band 4 - 5MHz 64-QAM - Full RB Configuration)

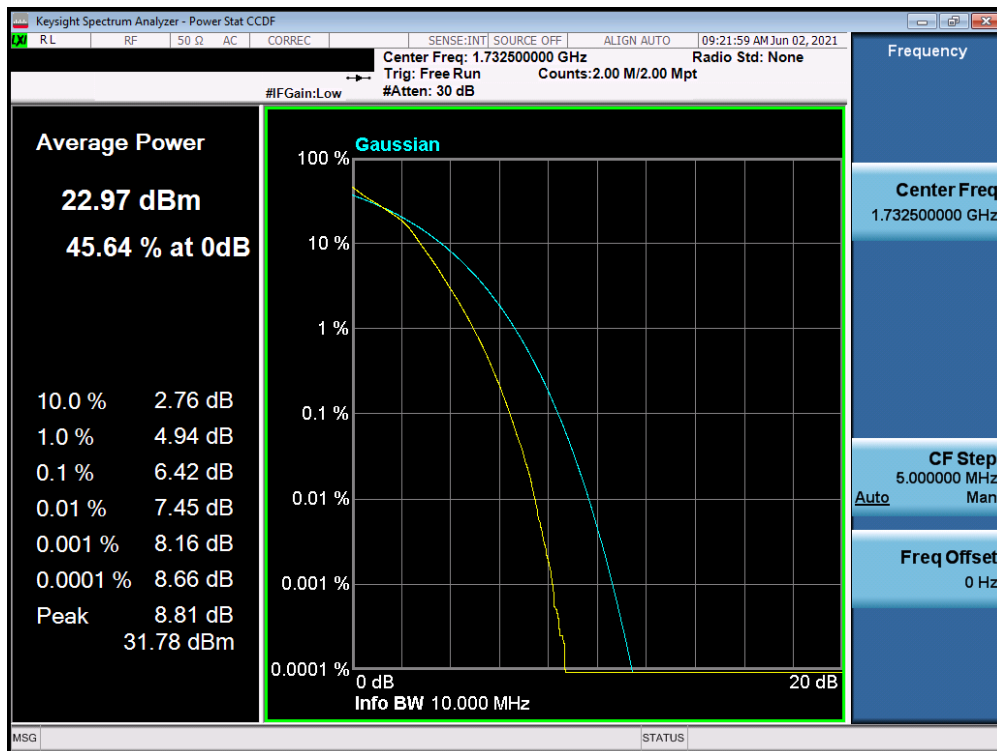


Plot 7-196. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 120 of 158

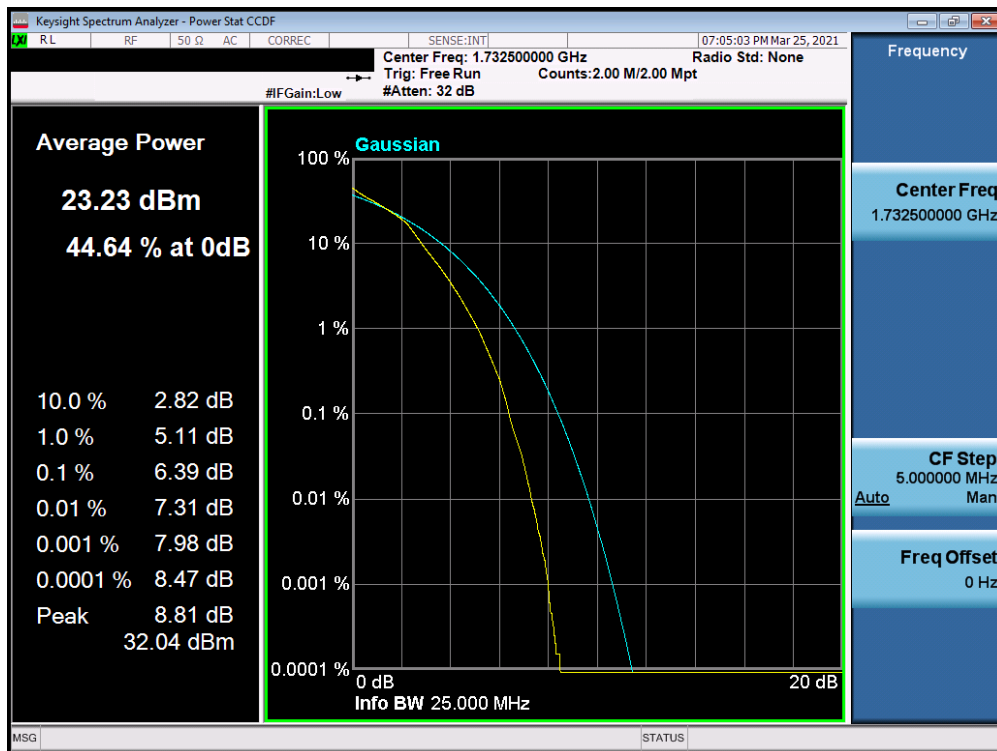
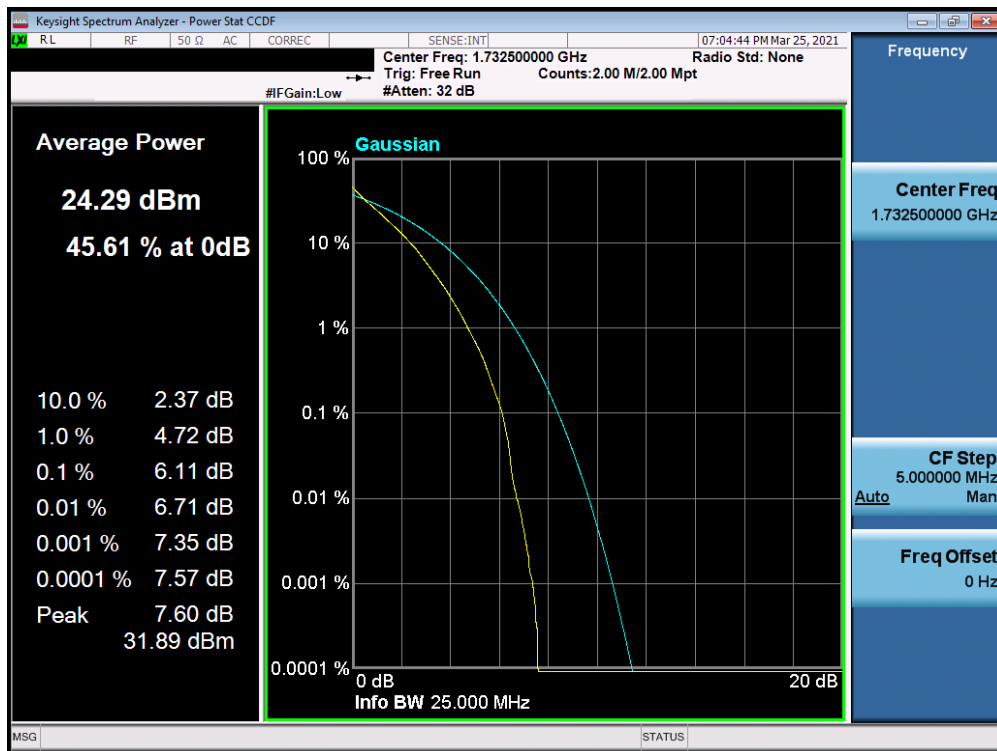


Plot 7-197. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB Configuration)

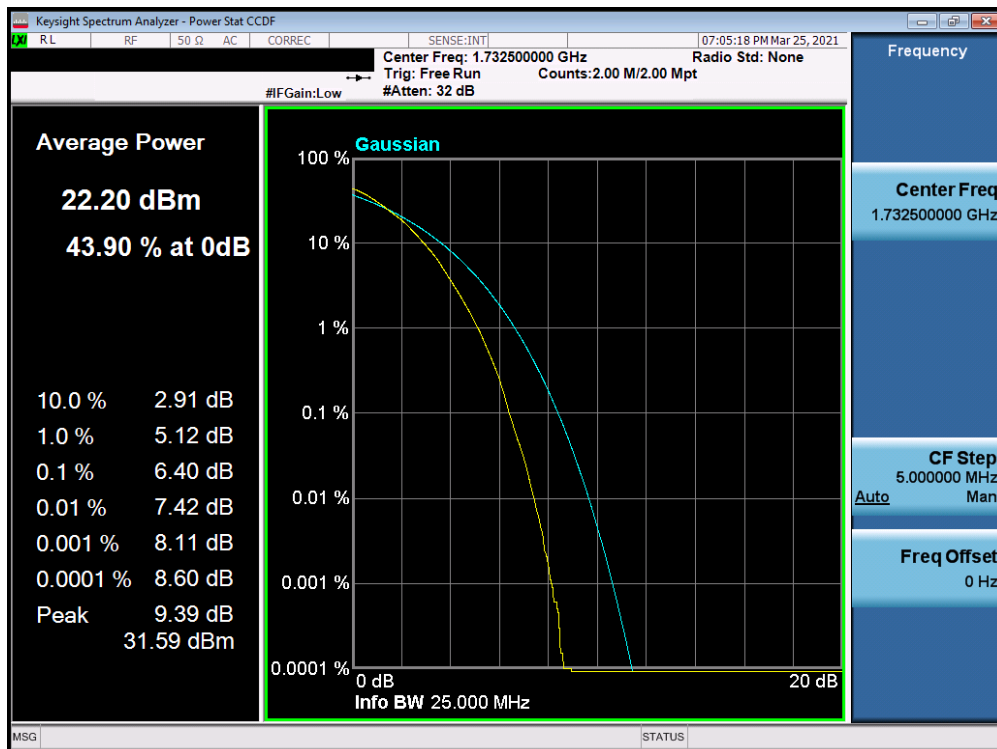


Plot 7-198. PAR Plot (LTE Band 4 - 10MHz 64-QAM - Full RB Configuration)

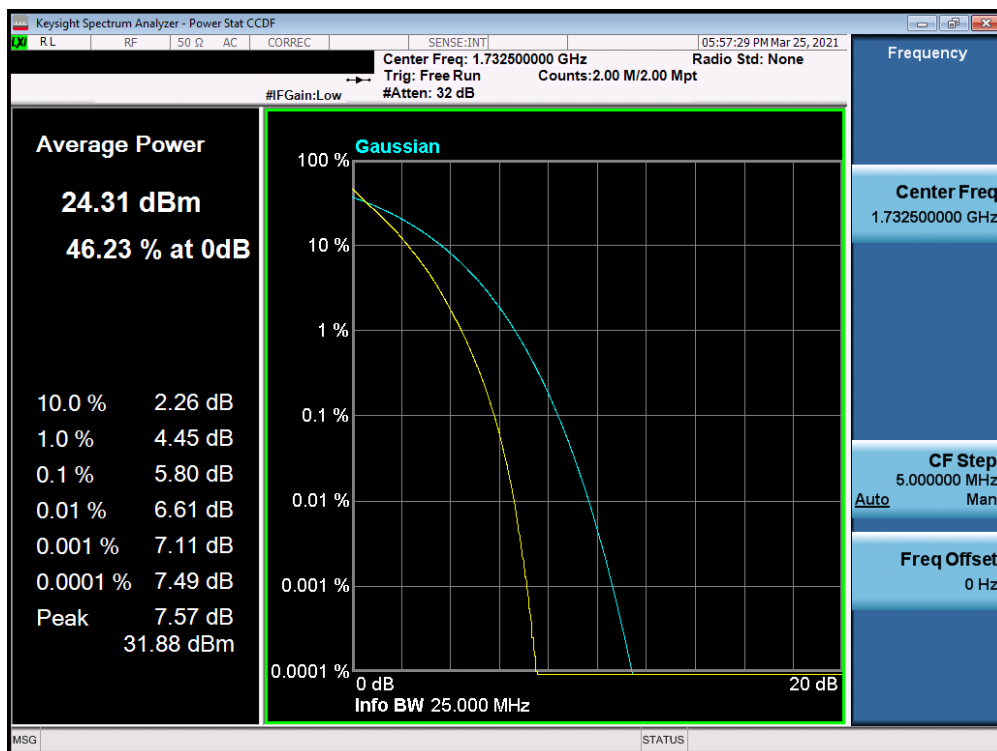
FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 121 of 158



FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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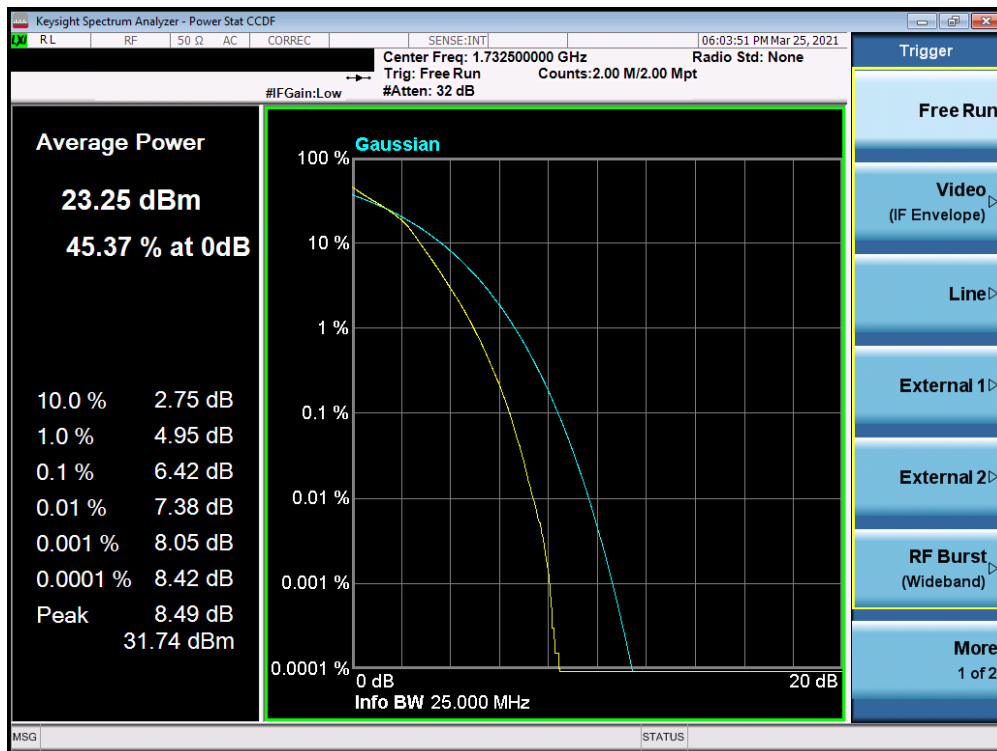


Plot 7-201. PAR Plot (LTE Band 4 - 15MHz 64-QAM - Full RB Configuration)

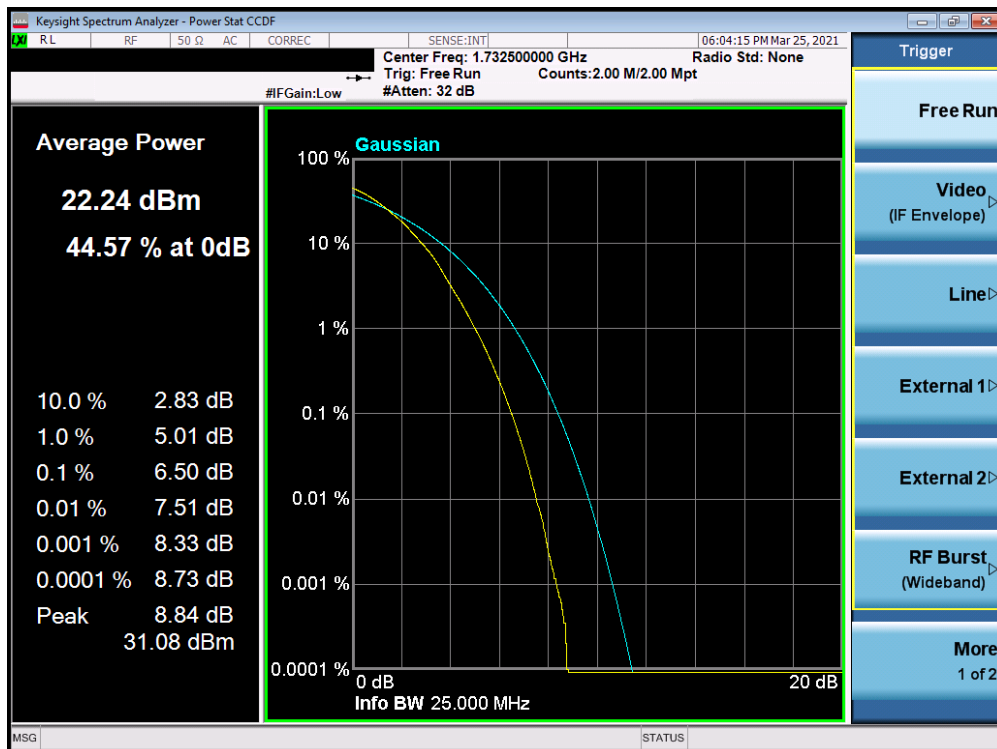


Plot 7-202. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 123 of 158



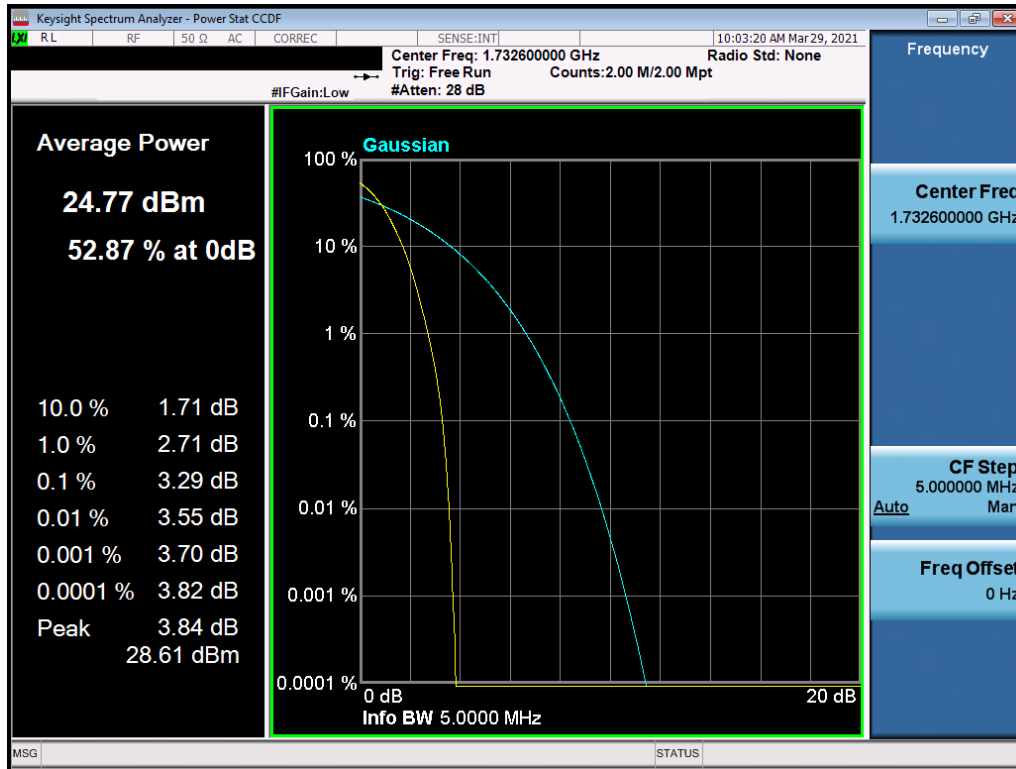
Plot 7-203. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB Configuration)



Plot 7-204. PAR Plot (LTE Band 4 - 20MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 124 of 158

WCDMA AWS



Plot 7-205. Peak-Average Ratio Plot (AWS WCDMA Mode)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6 Radiated Power (ERP/EIRP) §27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

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

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

Where:

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

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

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

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

Test Setup

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

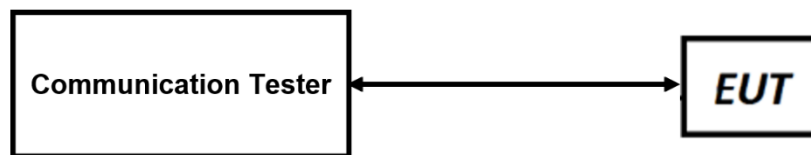




Figure 7-5. ERP/EIRP Measurement Setup

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
5. The Ant. Gains (GT) are listed in dBi.


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7.6.1 Antenna C – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	1.40	1 / 3	25.34	26.74	0.472	30.00	-3.26
		1745.0	1.40	1 / 5	25.30	26.70	0.468	30.00	-3.30
		1779.3	1.40	1 / 3	25.45	26.85	0.484	30.00	-3.15
	16-QAM	1745.0	1.40	1 / 3	24.79	26.19	0.416	30.00	-3.81
	64-QAM	1779.3	1.40	1 / 0	23.82	25.22	0.333	30.00	-4.78
3 MHz	QPSK	1711.5	1.40	1 / 0	25.32	26.72	0.470	30.00	-3.28
		1745.0	1.40	1 / 0	25.27	26.67	0.465	30.00	-3.33
		1778.5	1.40	1 / 0	25.21	26.61	0.458	30.00	-3.39
	16-QAM	1745.0	1.40	1 / 0	24.79	26.19	0.416	30.00	-3.81
	64-QAM	1778.5	1.40	1 / 7	23.62	25.02	0.318	30.00	-4.98
5 MHz	QPSK	1712.5	1.40	1 / 24	25.36	26.76	0.474	30.00	-3.24
		1745.0	1.40	1 / 24	25.46	26.86	0.485	30.00	-3.14
		1777.5	1.40	1 / 24	25.18	26.58	0.455	30.00	-3.42
	16-QAM	1745.0	1.40	1 / 0	24.86	26.26	0.423	30.00	-3.74
	64-QAM	1777.5	1.40	1 / 12	23.82	25.22	0.333	30.00	-4.78
10 MHz	QPSK	1715.0	1.40	1 / 25	25.27	26.67	0.465	30.00	-3.33
		1745.0	1.40	1 / 25	25.27	26.67	0.465	30.00	-3.33
		1775.0	1.40	1 / 25	25.19	26.59	0.456	30.00	-3.41
	16-QAM	1745.0	1.40	1 / 0	24.76	26.16	0.413	30.00	-3.84
	64-QAM	1715.0	1.40	1 / 25	23.63	25.03	0.318	30.00	-4.97
15 MHz	QPSK	1717.5	1.40	1 / 37	25.48	26.88	0.488	30.00	-3.12
		1745.0	1.40	1 / 37	25.23	26.63	0.460	30.00	-3.37
		1772.5	1.40	1 / 74	25.12	26.52	0.449	30.00	-3.48
	16-QAM	1772.5	1.40	1 / 74	24.83	26.23	0.420	30.00	-3.77
	64-QAM	1717.5	1.40	1 / 74	23.60	25.00	0.316	30.00	-5.00
20 MHz	QPSK	1720.0	1.40	1 / 50	25.29	26.69	0.467	30.00	-3.31
		1745.0	1.40	1 / 50	25.17	26.57	0.454	30.00	-3.43
		1770.0	1.40	1 / 99	25.36	26.76	0.474	30.00	-3.24
	16-QAM	1720.0	1.40	1 / 99	24.69	26.09	0.406	30.00	-3.91
	64-QAM	1745.0	1.40	1 / 50	23.84	25.24	0.334	30.00	-4.76

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

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 4


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	1.40	1 / 5	25.26	26.66	0.463	30.00	-3.34
		1732.5	1.40	1 / 5	25.27	26.67	0.465	30.00	-3.33
		1754.3	1.40	1 / 3	25.38	26.78	0.476	30.00	-3.22
	16-QAM	1710.7	1.40	1 / 0	24.81	26.21	0.418	30.00	-3.79
	64-QAM	1754.3	1.40	1 / 3	23.68	25.08	0.322	30.00	-4.92
3 MHz	QPSK	1711.5	1.40	1 / 0	25.21	26.61	0.458	30.00	-3.39
		1732.5	1.40	1 / 0	25.26	26.66	0.463	30.00	-3.34
		1753.5	1.40	1 / 0	25.16	26.56	0.453	30.00	-3.44
	16-QAM	1732.5	1.40	1 / 14	24.79	26.19	0.416	30.00	-3.81
	64-QAM	1753.5	1.40	1 / 14	23.60	25.00	0.316	30.00	-5.00
5 MHz	QPSK	1712.5	1.40	1 / 24	25.32	26.72	0.470	30.00	-3.28
		1732.5	1.40	1 / 24	25.43	26.83	0.482	30.00	-3.17
		1752.5	1.40	1 / 12	25.17	26.57	0.454	30.00	-3.43
	16-QAM	1712.5	1.40	1 / 12	24.97	26.37	0.434	30.00	-3.63
	64-QAM	1752.5	1.40	1 / 0	23.74	25.14	0.327	30.00	-4.86
10 MHz	QPSK	1715.0	1.40	1 / 25	25.27	26.67	0.465	30.00	-3.33
		1732.5	1.40	1 / 49	25.28	26.68	0.466	30.00	-3.32
		1750.0	1.40	1 / 25	25.27	26.67	0.465	30.00	-3.33
	16-QAM	1750.0	1.40	1 / 25	24.91	26.31	0.428	30.00	-3.69
	64-QAM	1715.0	1.40	1 / 25	23.63	25.03	0.318	30.00	-4.97
15 MHz	QPSK	1717.5	1.40	1 / 0	25.42	26.82	0.481	30.00	-3.18
		1732.5	1.40	1 / 74	25.27	26.67	0.465	30.00	-3.33
		1747.5	1.40	1 / 37	25.22	26.62	0.459	30.00	-3.38
	16-QAM	1747.5	1.40	1 / 0	24.82	26.22	0.419	30.00	-3.78
	64-QAM	1717.5	1.40	1 / 74	23.67	25.07	0.321	30.00	-4.93
20 MHz	QPSK	1720.0	1.40	1 / 50	25.32	26.72	0.470	30.00	-3.28
		1732.5	1.40	1 / 99	25.25	26.65	0.462	30.00	-3.35
		1745.0	1.40	1 / 50	25.40	26.80	0.479	30.00	-3.20
	16-QAM	1745.0	1.40	1 / 0	24.83	26.23	0.420	30.00	-3.77
	64-QAM	1732.5	1.40	1 / 0	23.76	25.16	0.328	30.00	-4.84

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

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-0.50	1 / 12	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		680.5	-0.50	1 / 0	25.41	22.76	0.189	34.77	-12.01	24.91	0.310	36.99	-12.08
		695.5	-0.50	1 / 24	25.27	22.62	0.183	34.77	-12.15	24.77	0.300	36.99	-12.22
	16-QAM	665.5	-0.50	1 / 12	24.99	22.34	0.171	34.77	-12.43	24.49	0.281	36.99	-12.50
	64-QAM	665.5	-0.50	1 / 12	24.13	21.48	0.141	34.77	-13.29	23.63	0.231	36.99	-13.36
10 MHz	QPSK	668.0	-0.50	1 / 0	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		680.5	-0.50	1 / 49	25.34	22.69	0.186	34.77	-12.08	24.84	0.305	36.99	-12.15
		693.0	-0.50	1 / 49	25.44	22.79	0.190	34.77	-11.98	24.94	0.312	36.99	-12.05
	16-QAM	693.0	-0.50	1 / 0	24.88	22.23	0.167	34.77	-12.54	24.38	0.274	36.99	-12.61
	64-QAM	680.5	-0.50	1 / 49	24.18	21.53	0.142	34.77	-13.24	23.68	0.233	36.99	-13.31
15 MHz	QPSK	670.5	-0.50	1 / 0	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		680.5	-0.50	1 / 37	25.23	22.58	0.181	34.77	-12.19	24.73	0.297	36.99	-12.26
		690.5	-0.50	1 / 74	25.25	22.60	0.182	34.77	-12.17	24.75	0.299	36.99	-12.24
	16-QAM	690.5	-0.50	1 / 74	25.08	22.43	0.175	34.77	-12.34	24.58	0.287	36.99	-12.41
	64-QAM	670.5	-0.50	1 / 74	24.06	21.41	0.138	34.77	-13.36	23.56	0.227	36.99	-13.43
20 MHz	QPSK	673.0	-0.50	1 / 0	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		680.5	-0.50	1 / 50	25.18	22.53	0.179	34.77	-12.24	24.68	0.294	36.99	-12.31
		688.0	-0.50	1 / 99	25.23	22.58	0.181	34.77	-12.19	24.73	0.297	36.99	-12.26
	16-QAM	673.0	-0.50	1 / 0	25.06	22.41	0.174	34.77	-12.36	24.56	0.286	36.99	-12.43
	64-QAM	673.0	-0.50	1 / 0	24.25	21.60	0.145	34.77	-13.17	23.75	0.237	36.99	-13.24

Table 7-4. Antenna C ERP/EIRP Data (LTE Band 71)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-0.50	1 / 5	25.23	22.58	0.181	34.77	-12.19	24.73	0.297	36.99	-12.26
		707.5	-0.50	1 / 5	25.24	22.59	0.182	34.77	-12.18	24.74	0.298	36.99	-12.25
		715.3	-0.50	1 / 3	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
	16-QAM 64-QAM	707.5	-0.50	1 / 5	24.77	22.12	0.163	34.77	-12.65	24.27	0.267	36.99	-12.72
		715.3	-0.50	1 / 5	23.65	21.00	0.126	34.77	-13.77	23.15	0.207	36.99	-13.84
3 MHz	QPSK	700.5	-0.50	1 / 7	25.43	22.78	0.190	34.77	-11.99	24.93	0.311	36.99	-12.06
		707.5	-0.50	1 / 7	25.44	22.79	0.190	34.77	-11.98	24.94	0.312	36.99	-12.05
		714.5	-0.50	1 / 7	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
	16-QAM 64-QAM	707.5	-0.50	1 / 7	24.94	22.29	0.169	34.77	-12.48	24.44	0.278	36.99	-12.55
		714.5	-0.50	1 / 14	23.78	21.13	0.130	34.77	-13.64	23.28	0.213	36.99	-13.71
5 MHz	QPSK	701.5	-0.50	1 / 12	25.30	22.65	0.184	34.77	-12.12	24.80	0.302	36.99	-12.19
		707.5	-0.50	1 / 24	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		713.5	-0.50	1 / 24	25.34	22.69	0.186	34.77	-12.08	24.84	0.305	36.99	-12.15
	16-QAM 64-QAM	707.5	-0.50	1 / 24	24.81	22.16	0.164	34.77	-12.61	24.31	0.270	36.99	-12.68
		713.5	-0.50	1 / 24	23.82	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
10 MHz	QPSK	704.0	-0.50	1 / 25	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		707.5	-0.50	1 / 49	25.41	22.76	0.189	34.77	-12.01	24.91	0.310	36.99	-12.08
		711.0	-0.50	1 / 25	25.39	22.74	0.188	34.77	-12.03	24.89	0.308	36.99	-12.10
	16-QAM 64-QAM	704.0	-0.50	1 / 49	24.96	22.31	0.170	34.77	-12.46	24.46	0.279	36.99	-12.53
		711.0	-0.50	1 / 49	23.80	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69

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

LTE Band 17

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-0.50	1 / 0	25.46	22.81	0.191	34.77	-11.96	24.96	0.313	36.99	-12.03
		710.0	-0.50	1 / 24	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		713.5	-0.50	1 / 0	25.46	22.81	0.191	34.77	-11.96	24.96	0.313	36.99	-12.03
	16-QAM 64-QAM	710.0	-0.50	1 / 24	24.93	22.28	0.169	34.77	-12.49	24.43	0.277	36.99	-12.56
		713.5	-0.50	1 / 0	24.01	21.36	0.137	34.77	-13.41	23.51	0.224	36.99	-13.48
10 MHz	QPSK	709.0	-0.50	1 / 25	25.48	22.83	0.192	34.77	-11.94	24.98	0.315	36.99	-12.01
		710.0	-0.50	1 / 25	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		711.0	-0.50	1 / 49	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
	16-QAM 64-QAM	709.0	-0.50	1 / 49	24.93	22.28	0.169	34.77	-12.49	24.43	0.277	36.99	-12.56
		710.0	-0.50	1 / 25	23.90	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59

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

LTE Band 13


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-0.50	1 / 12	25.50	22.85	0.193	34.77	-11.92	25.00	0.316	36.99	-11.99
		782.0	-0.50	1 / 12	25.31	22.66	0.185	34.77	-12.11	24.81	0.303	36.99	-12.18
		784.5	-0.50	1 / 12	24.95	22.30	0.170	34.77	-12.47	24.45	0.279	36.99	-12.54
	16-QAM 64-QAM	782.0	-0.50	1 / 12	24.96	22.31	0.170	34.77	-12.46	24.46	0.279	36.99	-12.53
		779.5	-0.50	1 / 12	24.00	21.35	0.136	34.77	-13.42	23.50	0.224	36.99	-13.49
10 MHz	QPSK	782.0	-0.50	1 / 25	25.39	22.74	0.188	34.77	-12.03	24.89	0.308	36.99	-12.10
		782.0	-0.50	1 / 25	24.58	21.93	0.156	34.77	-12.84	24.08	0.256	36.99	-12.91
	64-QAM	782.0	-0.50	1 / 25	23.26	20.61	0.115	34.77	-14.16	22.76	0.189	36.99	-14.23

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

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.49	1.40	26.89	0.489	30.00	-3.11
1732.60	WCDMA1700	25.50	1.40	26.90	0.490	30.00	-3.10
1752.60	WCDMA1700	25.46	1.40	26.86	0.485	30.00	-3.14

Table 7-8. Antenna C EIRP Data (WCDMA AWS)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6.2 Antenna D – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	2.00	1 / 3	23.26	25.26	0.336	30.00	-4.74
		1745.0	2.00	1 / 5	23.16	25.16	0.328	30.00	-4.84
		1779.3	2.00	1 / 3	23.32	25.32	0.340	30.00	-4.68
	16-QAM	1710.7	2.00	1 / 5	22.75	24.75	0.299	30.00	-5.25
	64-QAM	1710.7	2.00	1 / 0	21.61	23.61	0.230	30.00	-6.39
3 MHz	QPSK	1711.5	2.00	1 / 0	23.24	25.24	0.334	30.00	-4.76
		1745.0	2.00	1 / 0	23.16	25.16	0.328	30.00	-4.84
		1778.5	2.00	1 / 0	23.14	25.14	0.327	30.00	-4.86
	16-QAM	1778.5	2.00	1 / 0	22.67	24.67	0.293	30.00	-5.33
	64-QAM	1711.5	2.00	1 / 0	21.70	23.70	0.234	30.00	-6.30
5 MHz	QPSK	1712.5	2.00	1 / 24	23.36	25.36	0.344	30.00	-4.64
		1745.0	2.00	1 / 24	23.33	25.33	0.341	30.00	-4.67
		1777.5	2.00	1 / 24	23.14	25.14	0.327	30.00	-4.86
	16-QAM	1712.5	2.00	1 / 24	22.81	24.81	0.303	30.00	-5.19
	64-QAM	1777.5	2.00	1 / 24	21.63	23.63	0.231	30.00	-6.37
10 MHz	QPSK	1715.0	2.00	1 / 25	23.27	25.27	0.337	30.00	-4.73
		1745.0	2.00	1 / 49	23.22	25.22	0.333	30.00	-4.78
		1775.0	2.00	1 / 25	23.21	25.21	0.332	30.00	-4.79
	16-QAM	1775.0	2.00	1 / 49	22.86	24.86	0.306	30.00	-5.14
	64-QAM	1715.0	2.00	1 / 25	21.60	23.60	0.229	30.00	-6.40
15 MHz	QPSK	1717.5	2.00	1 / 37	23.46	25.46	0.352	30.00	-4.54
		1745.0	2.00	1 / 74	23.18	25.18	0.330	30.00	-4.82
		1772.5	2.00	1 / 74	23.15	25.15	0.327	30.00	-4.85
	16-QAM	1772.5	2.00	1 / 37	22.70	24.70	0.295	30.00	-5.30
	64-QAM	1717.5	2.00	1 / 0	21.64	23.64	0.231	30.00	-6.36
20 MHz	QPSK	1720.0	2.00	1 / 50	23.35	25.35	0.343	30.00	-4.65
		1745.0	2.00	1 / 99	23.23	25.23	0.333	30.00	-4.77
		1770.0	2.00	1 / 99	23.36	25.36	0.344	30.00	-4.64
	16-QAM	1720.0	2.00	1 / 50	22.68	24.68	0.294	30.00	-5.32
	64-QAM	1745.0	2.00	1 / 99	21.87	23.87	0.244	30.00	-6.13

Table 7-9. Antenna D EIRP Data (LTE Band 66)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 4


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	2.00	1 / 3	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 3	23.39	25.39	0.346	30.00	-4.61
		1754.3	2.00	1 / 3	23.46	25.46	0.352	30.00	-4.54
	16-QAM	1710.7	2.00	1 / 0	22.76	24.76	0.299	30.00	-5.24
	64-QAM	1754.3	2.00	1 / 3	21.69	23.69	0.234	30.00	-6.31
3 MHz	QPSK	1711.5	2.00	1 / 0	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 0	23.39	25.39	0.346	30.00	-4.61
		1753.5	2.00	1 / 0	23.40	25.40	0.347	30.00	-4.60
	16-QAM	1711.5	2.00	1 / 7	22.79	24.79	0.301	30.00	-5.21
	64-QAM	1711.5	2.00	1 / 7	21.62	23.62	0.230	30.00	-6.38
5 MHz	QPSK	1712.5	2.00	1 / 12	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 24	23.36	25.36	0.344	30.00	-4.64
		1752.5	2.00	1 / 12	23.47	25.47	0.352	30.00	-4.53
	16-QAM	1732.5	2.00	1 / 12	22.94	24.94	0.312	30.00	-5.06
	64-QAM	1712.5	2.00	1 / 24	21.75	23.75	0.237	30.00	-6.25
10 MHz	QPSK	1715.0	2.00	1 / 25	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 25	23.46	25.46	0.352	30.00	-4.54
		1750.0	2.00	1 / 25	23.38	25.38	0.345	30.00	-4.62
	16-QAM	1715.0	2.00	1 / 49	22.80	24.80	0.302	30.00	-5.20
	64-QAM	1715.0	2.00	1 / 49	21.59	23.59	0.229	30.00	-6.41
15 MHz	QPSK	1717.5	2.00	1 / 37	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 37	23.43	25.43	0.349	30.00	-4.57
		1747.5	2.00	1 / 0	23.35	25.35	0.343	30.00	-4.65
	16-QAM	1717.5	2.00	1 / 37	22.92	24.92	0.310	30.00	-5.08
	64-QAM	1717.5	2.00	1 / 0	21.89	23.89	0.245	30.00	-6.11
20 MHz	QPSK	1720.0	2.00	1 / 50	23.50	25.50	0.355	30.00	-4.50
		1732.5	2.00	1 / 99	23.50	25.50	0.355	30.00	-4.50
		1745.0	2.00	1 / 99	23.34	25.34	0.342	30.00	-4.66
	16-QAM	1745.0	2.00	1 / 99	22.95	24.95	0.313	30.00	-5.05
	64-QAM	1732.5	2.00	1 / 99	21.79	23.79	0.239	30.00	-6.21

Table 7-10. Antenna D EIRP Data (LTE Band 4)

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-0.70	1 / 12	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
		680.5	-0.70	1 / 24	24.43	21.58	0.144	34.77	-13.19	23.73	0.236	36.99	-13.26
		695.5	-0.70	1 / 24	24.33	21.48	0.141	34.77	-13.29	23.63	0.231	36.99	-13.36
	16-QAM	665.5	-0.70	1 / 12	24.03	21.18	0.131	34.77	-13.59	23.33	0.215	36.99	-13.66
	64-QAM	665.5	-0.70	1 / 12	22.91	20.06	0.101	34.77	-14.71	22.21	0.166	36.99	-14.78
10 MHz	QPSK	668.0	-0.70	1 / 25	24.45	21.60	0.145	34.77	-13.17	23.75	0.237	36.99	-13.24
		680.5	-0.70	1 / 25	24.26	21.41	0.138	34.77	-13.36	23.56	0.227	36.99	-13.43
		693.0	-0.70	1 / 25	24.35	21.50	0.141	34.77	-13.27	23.65	0.232	36.99	-13.34
	16-QAM	680.5	-0.70	1 / 0	23.80	20.95	0.124	34.77	-13.82	23.10	0.204	36.99	-13.89
	64-QAM	693.0	-0.70	1 / 49	22.86	20.01	0.100	34.77	-14.76	22.16	0.164	36.99	-14.83
15 MHz	QPSK	670.5	-0.70	1 / 37	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
		680.5	-0.70	1 / 0	24.21	21.36	0.137	34.77	-13.41	23.51	0.224	36.99	-13.48
		690.5	-0.70	1 / 74	24.28	21.43	0.139	34.77	-13.34	23.58	0.228	36.99	-13.41
	16-QAM	690.5	-0.70	1 / 0	23.83	20.98	0.125	34.77	-13.79	23.13	0.206	36.99	-13.86
	64-QAM	670.5	-0.70	1 / 0	22.73	19.88	0.097	34.77	-14.89	22.03	0.160	36.99	-14.96
20 MHz	QPSK	673.0	-0.70	1 / 99	24.46	21.61	0.145	34.77	-13.16	23.76	0.238	36.99	-13.23
		680.5	-0.70	1 / 99	24.43	21.58	0.144	34.77	-13.19	23.73	0.236	36.99	-13.26
		688.0	-0.70	1 / 99	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
	16-QAM	688.0	-0.70	1 / 99	23.97	21.12	0.129	34.77	-13.65	23.27	0.212	36.99	-13.72
	64-QAM	680.5	-0.70	1 / 0	22.96	20.11	0.103	34.77	-14.66	22.26	0.168	36.99	-14.73

Table 7-11. Antenna D ERP/EIRP Data (LTE Band 71)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-0.70	1 / 3	24.31	21.46	0.140	34.77	-13.31	23.61	0.230	36.99	-13.38
		707.5	-0.70	1 / 3	24.38	21.53	0.142	34.77	-13.24	23.68	0.233	36.99	-13.31
		715.3	-0.70	1 / 5	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
	16-QAM	715.3	-0.70	1 / 5	24.00	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
	64-QAM	715.3	-0.70	1 / 0	23.06	20.21	0.105	34.77	-14.56	22.36	0.172	36.99	-14.63
3 MHz	QPSK	700.5	-0.70	1 / 14	24.33	21.48	0.141	34.77	-13.29	23.63	0.231	36.99	-13.36
		707.5	-0.70	1 / 14	24.39	21.54	0.143	34.77	-13.23	23.69	0.234	36.99	-13.30
		714.5	-0.70	1 / 14	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
	16-QAM	700.5	-0.70	1 / 14	23.76	20.91	0.123	34.77	-13.86	23.06	0.202	36.99	-13.93
	64-QAM	714.5	-0.70	1 / 0	22.83	19.98	0.100	34.77	-14.79	22.13	0.163	36.99	-14.86
5 MHz	QPSK	701.5	-0.70	1 / 0	24.40	21.55	0.143	34.77	-13.22	23.70	0.234	36.99	-13.29
		707.5	-0.70	1 / 24	24.49	21.64	0.146	34.77	-13.13	23.79	0.239	36.99	-13.20
		713.5	-0.70	1 / 24	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
	16-QAM	707.5	-0.70	1 / 24	24.02	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
	64-QAM	707.5	-0.70	1 / 24	22.85	20.00	0.100	34.77	-14.77	22.15	0.164	36.99	-14.84
10 MHz	QPSK	704.0	-0.70	1 / 49	24.47	21.62	0.145	34.77	-13.15	23.77	0.238	36.99	-13.22
		707.5	-0.70	1 / 49	24.49	21.64	0.146	34.77	-13.13	23.79	0.239	36.99	-13.20
		711.0	-0.70	1 / 49	24.50	21.65	0.146	34.77	-13.12	23.80	0.240	36.99	-13.19
	16-QAM	707.5	-0.70	1 / 49	24.06	21.21	0.132	34.77	-13.56	23.36	0.217	36.99	-13.63
	64-QAM	711.0	-0.70	1 / 49	22.89	20.04	0.101	34.77	-14.73	22.19	0.166	36.99	-14.80

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

LTE Band 13


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-0.70	1 / 12	24.43	21.58	0.144	34.77	-13.19	23.73	0.236	36.99	-13.26
		782.0	-0.70	1 / 12	24.15	21.30	0.135	34.77	-13.47	23.45	0.221	36.99	-13.54
		784.5	-0.70	1 / 12	24.13	21.28	0.134	34.77	-13.49	23.43	0.220	36.99	-13.56
	16-QAM	779.5	-0.70	1 / 0	23.95	21.10	0.129	34.77	-13.67	23.25	0.211	36.99	-13.74
	64-QAM	779.5	-0.70	1 / 12	22.89	20.04	0.101	34.77	-14.73	22.19	0.166	36.99	-14.80
10 MHz	QPSK	782.0	-0.70	1 / 25	24.42	21.57	0.144	34.77	-13.20	23.72	0.236	36.99	-13.27
	16-QAM	782.0	-0.70	1 / 25	23.91	21.06	0.128	34.77	-13.71	23.21	0.209	36.99	-13.78
	64-QAM	782.0	-0.70	1 / 25	22.92	20.07	0.102	34.77	-14.70	22.22	0.167	36.99	-14.77

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

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.97	2.00	26.97	0.498	30.00	-3.03
1732.60	WCDMA1700	24.89	2.00	26.89	0.489	30.00	-3.11
1752.60	WCDMA1700	25.00	2.00	27.00	0.501	30.00	-3.00

Table 7-14. Antenna D EIRP Data (WCDMA AWS)

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7.7 Radiated Spurious Emissions

\$2.1053, \$27.53(f)

Test Overview

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


Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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

Test Settings

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

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Test Setup

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

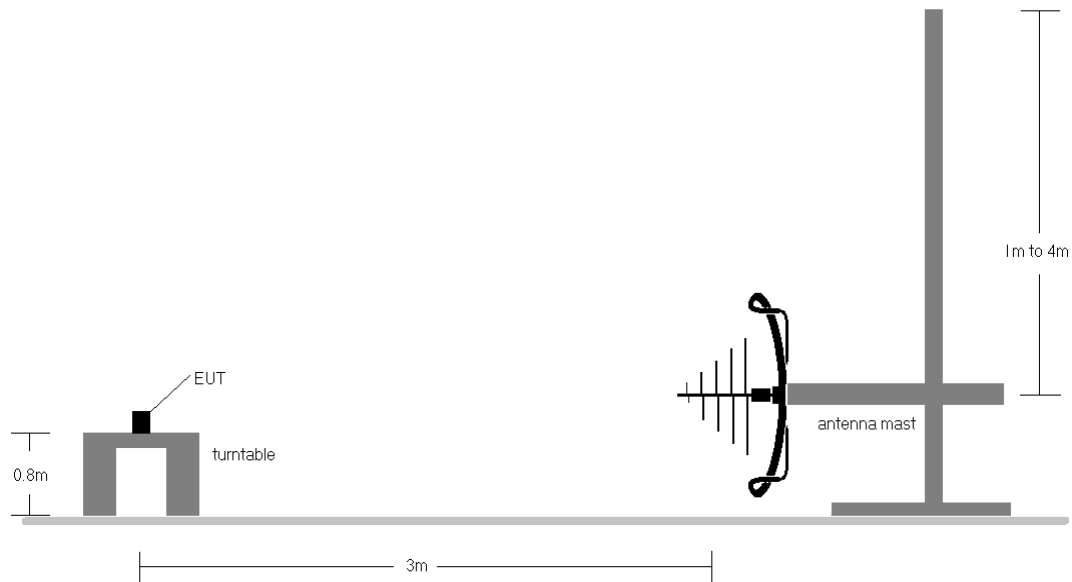


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

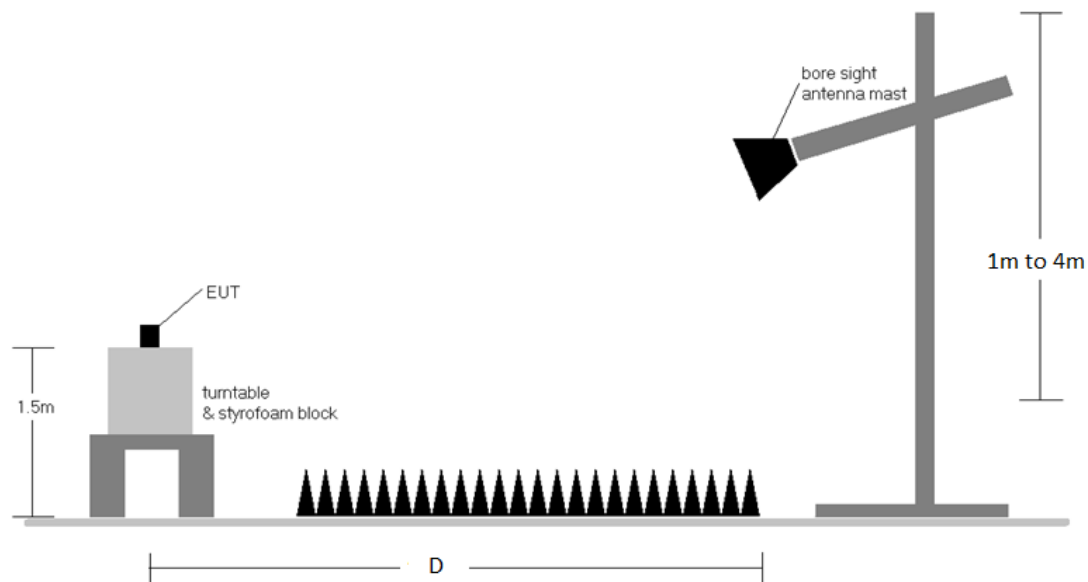




Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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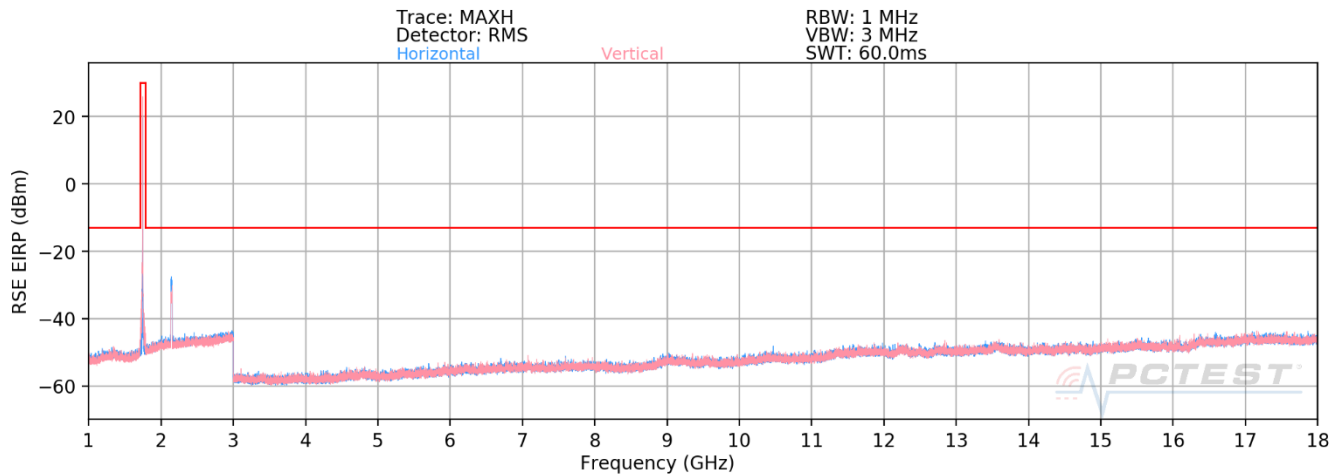
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - 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 EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. No significant emissions were found for below 1GHz measurement.

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7.7.1 Antenna C – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-206. Antenna C Radiated Spurious Emission above 1GHz (LTE Band 66/4)

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Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.17	3.74	32.57	-62.69	-13.00	-49.69
5160.0	V	-	-	-79.30	5.73	33.43	-61.83	-13.00	-48.83
6880.0	V	-	-	-79.61	7.91	35.30	-59.96	-13.00	-46.96

Table 7-15. Antenna C 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	-	-	-77.93	2.86	31.93	-63.32	-13.00	-50.32
5235.0	V	-	-	-79.31	5.67	33.36	-61.90	-13.00	-48.90
6980.0	V	-	-	-79.85	8.30	35.45	-59.81	-13.00	-46.81

Table 7-16. Antenna C Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

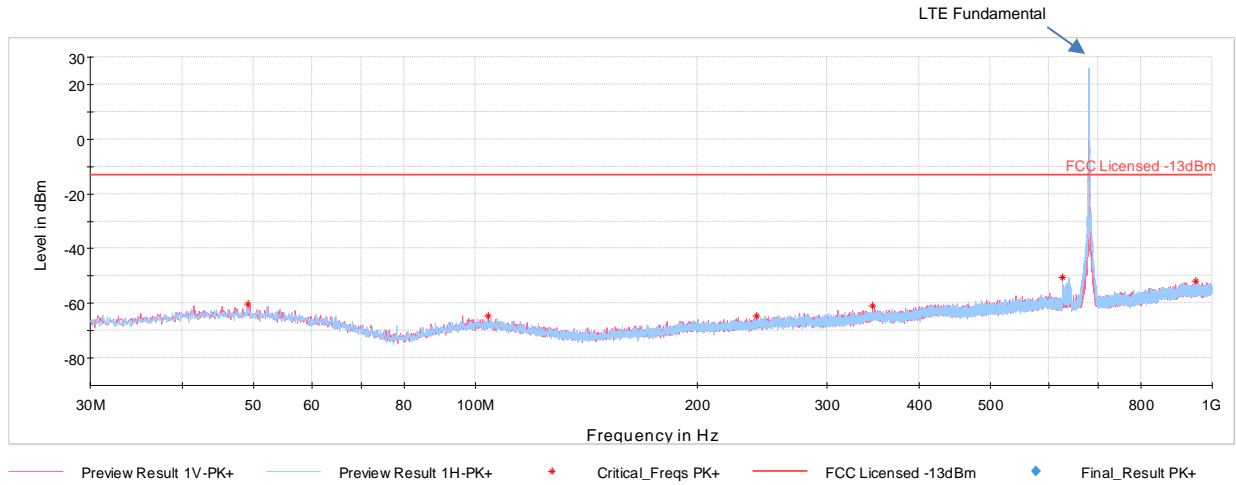
Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

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]
3540.00	V	-	-	-78.36	3.45	32.09	-63.17	-13.00	-50.17
5310.00	V	-	-	-79.94	6.64	33.70	-61.55	-13.00	-48.55
7080.00	V	-	-	-80.41	8.92	35.51	-59.74	-13.00	-46.74

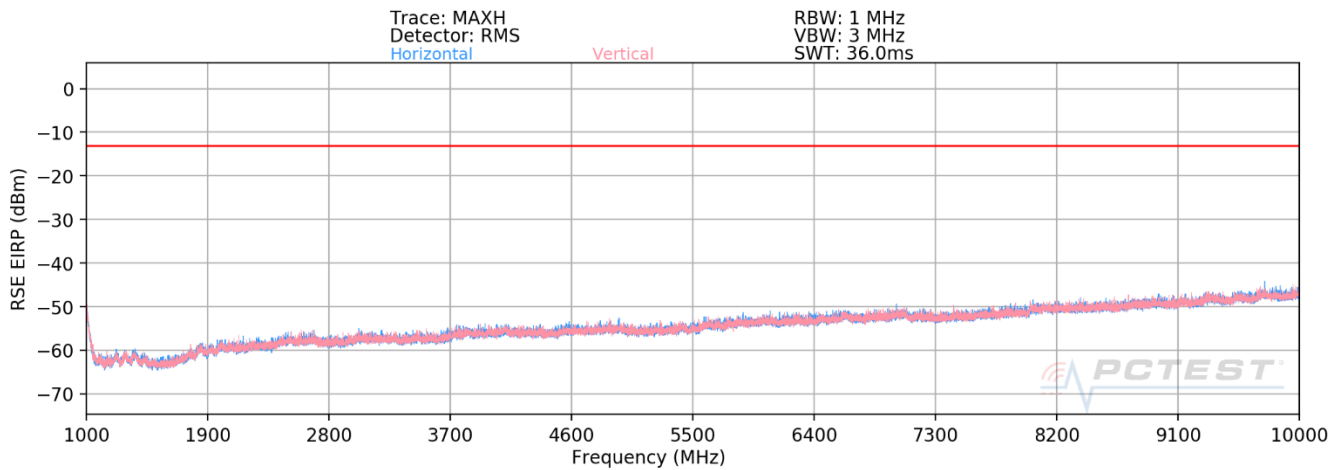
Table 7-17. Antenna C Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 71



Plot 7-207. Antenna C Radiated Spurious Emission below 18GHz (LTE Band 71)



Plot 7-208. Antenna C Radiated Spurious Emission above 18GHz (LTE Band 71)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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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	-	-	-78.20	-0.40	28.40	-66.86	-13.00	-53.86
2019.0	H	-	-	-79.01	2.48	30.47	-64.79	-13.00	-51.79
2692.0	H	-	-	-79.92	4.81	31.89	-63.36	-13.00	-50.36


Table 7-18. Antenna C 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	-	-	-78.17	-0.29	28.54	-66.71	-13.00	-53.71
2041.5	H	-	-	-78.78	2.67	30.89	-64.37	-13.00	-51.37
2722.0	H	-	-	-79.88	4.38	31.50	-63.75	-13.00	-50.75

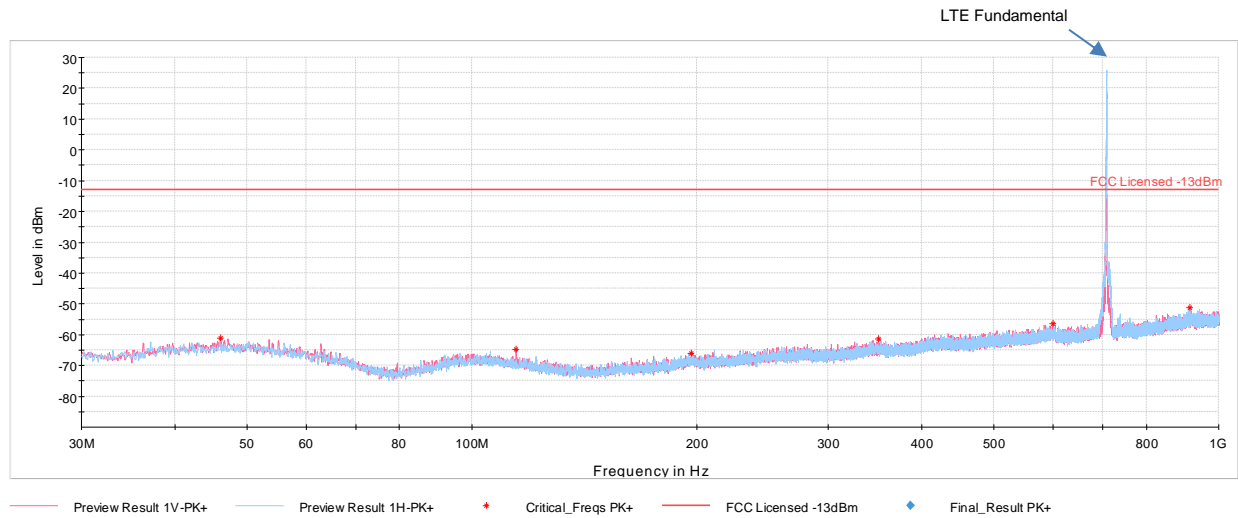
Table 7-19. Antenna C Radiated Spurious Data (LTE Band 71 – Mid Channel)

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	-	-	-77.98	-0.40	28.62	-66.64	-13.00	-53.64
2064.0	H	-	-	-79.21	2.59	30.38	-64.88	-13.00	-51.88
2752.0	H	-	-	-79.64	4.00	31.36	-63.90	-13.00	-50.90

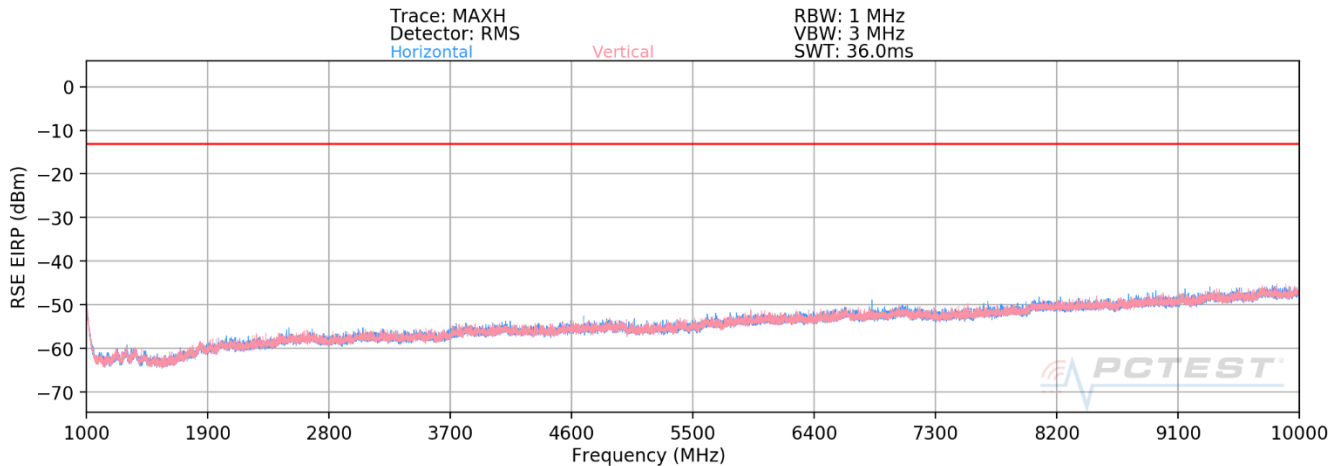
Table 7-20. Antenna C Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12/17



Plot 7-209. Antenna C Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-210. Antenna C Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Bandwidth (MHz):	10								
Frequency (MHz):	704.0								
RB / Offset:	1 / 25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	-	-	-77.91	-1.22	27.87	-67.38	-13.00	-54.38
2112.0	H	-	-	-79.07	2.34	30.27	-64.99	-13.00	-51.99
2816.0	H	-	-	-80.32	4.59	31.27	-63.99	-13.00	-50.99


Table 7-21. Antenna C 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	-	-	-78.20	-1.27	27.53	-67.73	-13.00	-54.73
2122.5	H	-	-	-78.99	2.40	30.41	-64.84	-13.00	-51.84
2830.0	H	-	-	-80.01	4.51	31.50	-63.76	-13.00	-50.76

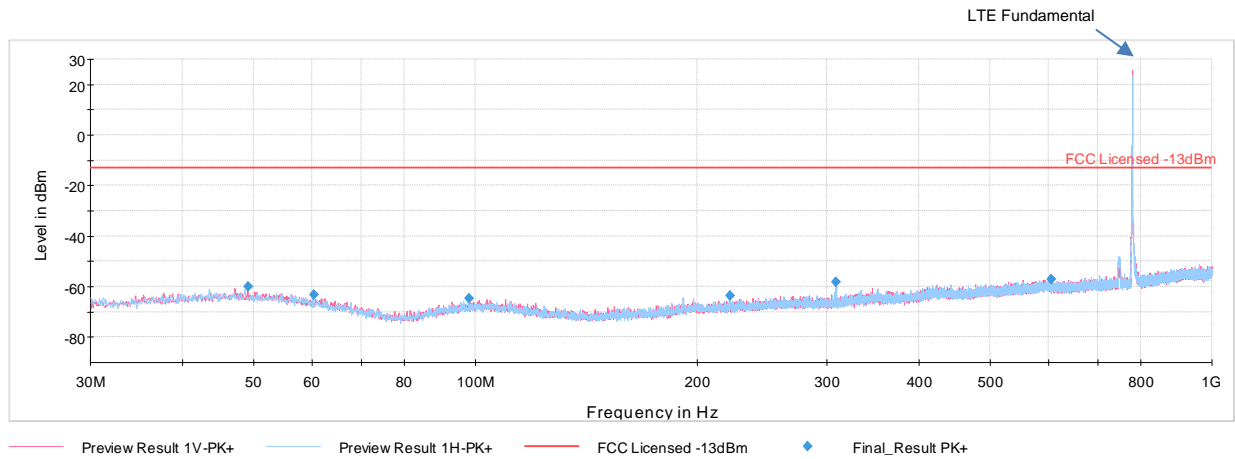
Table 7-22. Antenna C Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

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	-	-	-78.12	-1.30	27.58	-67.68	-13.00	-54.68
2133.0	H	-	-	-79.06	2.43	30.37	-64.89	-13.00	-51.89
2844.0	H	-	-	-80.29	4.53	31.24	-64.02	-13.00	-51.02

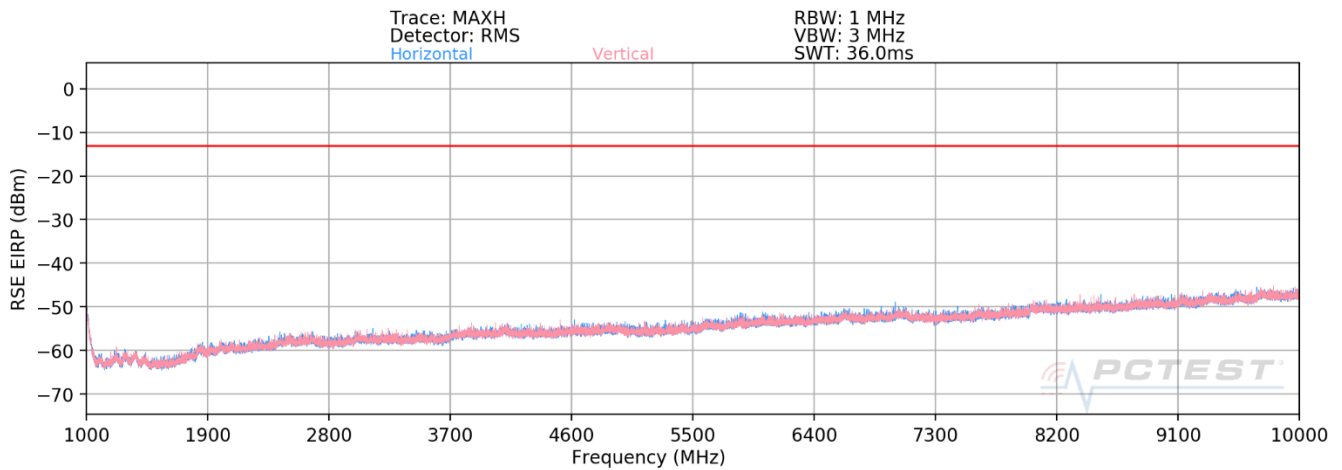
Table 7-23. Antenna C Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 13



Plot 7-211. Antenna C Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-212. Antenna C Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2603	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 143 of 158

Bandwidth (MHz):	5								
Frequency (MHz):	779.5								
RB / Offset:	1/12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	V	-	-	-78.21	-2.15	26.64	-68.62	-40.00	-28.62
2338.5	V	-	-	-79.02	2.15	30.13	-65.13	-13.00	-52.13
3118.0	V	-	-	-79.39	3.60	31.21	-64.05	-13.00	-51.05


Table 7-24. Antenna C Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	782.0								
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]
1564.0	H	-	-	-78.53	-1.97	26.50	-68.76	-40.00	-28.76
2346.0	H	-	-	-79.34	3.02	30.68	-64.57	-13.00	-51.57
3128.0	H	-	-	-80.26	5.21	31.95	-63.31	-13.00	-50.31

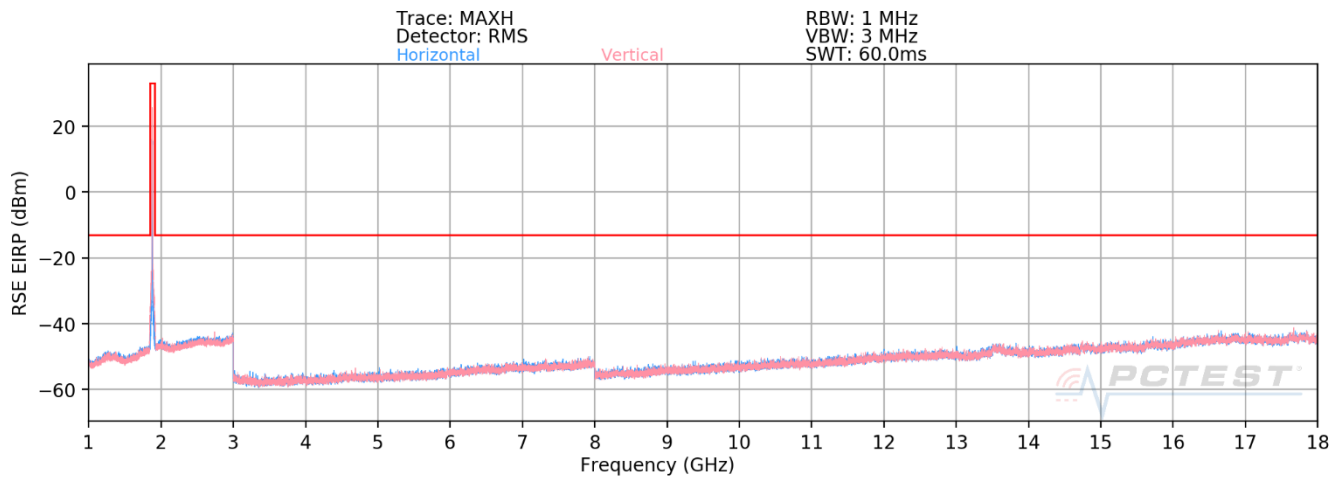
Table 7-25. Antenna C Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	784.5								
RB / Offset:	1/12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	V	-	-	-78.35	-2.14	26.51	-68.75	-40.00	-28.75
2353.5	V	-	-	-79.21	2.28	30.07	-65.19	-13.00	-52.19
3138.0	V	-	-	-79.57	3.58	31.01	-64.25	-13.00	-51.25

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

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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WCDMA AWS



Plot 7-213. Antenna C Radiated Spurious Emission above 1GHz (WCDMA AWS)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 145 of 158

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-79.88	4.68	31.80	-63.46	-13.00	-50.46
5137.2	V	-	-	-81.14	7.59	33.45	-61.81	-13.00	-48.81
6849.6	V	-	-	-81.79	9.80	35.01	-60.24	-13.00	-47.24

7-27. Antenna C Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-79.97	5.03	32.06	-63.19	-13.00	-50.19
5197.8	V	-	-	-81.04	7.55	33.51	-61.75	-13.00	-48.75
6930.4	V	-	-	-81.60	9.63	35.03	-60.22	-13.00	-47.22

Table 7-28. Antenna C Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-80.14	5.33	32.19	-63.07	-13.00	-50.07
5257.8	V	-	-	-81.16	7.47	33.31	-61.94	-13.00	-48.94
7010.4	V	-	-	-81.55	9.79	35.24	-60.02	-13.00	-47.02

Table 7-29. Antenna C Radiated Spurious Data (WCDMA AWS – High Channel)

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7.7.2 Antenna D – Radiated Spurious Emission Measurement

LTE Band 66/4

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	-	-	-78.24	3.74	32.50	-62.76	-13.00	-49.76
5160.0	H	-	-	-79.48	5.73	33.25	-62.01	-13.00	-49.01
6880.0	H	-	-	-79.56	7.91	35.35	-59.91	-13.00	-46.91


Table 7-30. Antenna D Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-77.86	2.86	32.00	-63.25	-13.00	-50.25
5235.0	H	-	-	-79.34	5.67	33.33	-61.93	-13.00	-48.93
6980.0	H	-	-	-80.10	8.30	35.20	-60.06	-13.00	-47.06

Table 7-31. Antenna D 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]
3540.00	H	-	-	-78.55	3.45	31.90	-63.36	-13.00	-50.36
5310.00	H	-	-	-79.93	6.64	33.71	-61.54	-13.00	-48.54
7080.00	H	-	-	-80.58	8.92	35.34	-59.91	-13.00	-46.91

Table 7-32. Antenna D Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 71

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	-	-	-77.62	-1.60	27.78	-67.48	-13.00	-54.48
2019.0	H	-	-	-78.67	1.58	29.91	-65.35	-13.00	-52.35
2692.0	H	-	-	-79.47	3.47	31.00	-64.26	-13.00	-51.26


Table 7-33. Antenna D 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	-	-	-77.61	-1.61	27.78	-67.48	-13.00	-54.48
2041.5	H	-	-	-78.66	1.34	29.68	-65.58	-13.00	-52.58
2722.0	H	-	-	-79.65	3.75	31.10	-64.16	-13.00	-51.16

Table 7-34. Antenna D 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	-	-	-77.80	-1.68	27.52	-67.73	-13.00	-54.73
2064.0	H	-	-	-78.76	1.42	29.66	-65.60	-13.00	-52.60
2752.0	H	-	-	-79.74	3.50	30.76	-64.49	-13.00	-51.49

Table 7-35. Antenna D Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 12/17

Bandwidth (MHz):	10								
Frequency (MHz):	704.0								
RB / Offset:	1 / 25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	V	400	225	-71.13	-3.50	32.37	-62.88	-13.00	-49.88
2112.0	V	-	-	-76.95	0.39	30.44	-64.82	-13.00	-51.82
2816.0	V	-	-	-77.75	2.10	31.35	-63.91	-13.00	-50.91
3520.0	V	-	-	-78.67	3.21	31.54	-63.72	-13.00	-50.72


Table 7-36. Antenna D 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	322	311	-69.65	-3.54	33.81	-61.44	-13.00	-48.44
2122.5	H	-	-	-77.12	0.50	30.38	-64.88	-13.00	-51.88
2830.0	H	-	-	-77.96	2.20	31.24	-64.02	-13.00	-51.02
3537.5	H	-	-	-78.53	3.16	31.63	-63.63	-13.00	-50.63

Table 7-37. Antenna D Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	711.0								
RB / Offset:	1 / 25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	V	399	210	-70.21	-3.48	33.31	-61.95	-13.00	-48.95
2133.0	V	-	-	-76.96	0.60	30.64	-64.62	-13.00	-51.62
2844.0	V	-	-	-77.90	2.22	31.32	-63.94	-13.00	-50.94
3555.0	V	-	-	-78.51	3.19	31.68	-63.58	-13.00	-50.58

Table 7-38. Antenna D Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 13

Bandwidth (MHz):	5								
Frequency (MHz):	779.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	V	264	45	-70.70	-3.05	33.25	-62.01	-40.00	-22.01
2338.5	V	-	-	-76.65	0.97	31.32	-63.94	-13.00	-50.94
3118.0	V	-	-	-78.32	3.14	31.82	-63.44	-13.00	-50.44
3897.5	V	-	-	-78.92	4.10	32.18	-63.07	-13.00	-50.07


Table 7-39. Antenna D Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10								
Frequency (MHz):	782.0								
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]
1564.0	V	289	39	-69.95	-3.11	33.94	-61.31	-40.00	-21.31
2346.0	V	-	-	-77.13	0.99	30.86	-64.39	-13.00	-51.39
3128.0	V	-	-	-78.13	3.15	32.02	-63.24	-13.00	-50.24
3910.0	V	-	-	-78.90	4.24	32.34	-62.92	-13.00	-49.92

Table 7-40. Antenna D Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5								
Frequency (MHz):	784.5								
RB / Offset:	1 / 12								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	V	265	36	-69.46	-3.16	34.38	-60.88	-40.00	-20.88
2353.5	V	-	-	-77.57	1.04	30.47	-64.78	-13.00	-51.78
3138.0	V	-	-	-78.43	3.23	31.80	-63.46	-13.00	-50.46
3922.5	V	-	-	-78.99	4.29	32.30	-62.95	-13.00	-49.95

Table 7-41. Antenna D Radiated Spurious Data (LTE Band 13 – High Channel)

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WCDMA AWS

Mode:	WCDMA RMC								
Channel:	1312								
Frequency (MHz):	1712.4								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-79.86	4.68	31.82	-63.44	-13.00	-50.44
5137.2	H	-	-	-81.20	7.59	33.39	-61.87	-13.00	-48.87
6849.6	H	-	-	-81.63	9.80	35.17	-60.08	-13.00	-47.08


7-42. Antenna D Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC								
Channel:	1413								
Frequency (MHz):	1732.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	H	-	-	-80.00	5.03	32.03	-63.22	-13.00	-50.22
5197.8	H	-	-	-81.12	7.55	33.43	-61.83	-13.00	-48.83
6930.4	H	-	-	-81.61	9.63	35.02	-60.23	-13.00	-47.23

Table 7-43. Antenna D Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC								
Channel:	1513								
Frequency (MHz):	1752.6								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	H	-	-	-80.24	5.33	32.09	-63.17	-13.00	-50.17
5257.8	H	-	-	-80.76	7.47	33.71	-61.54	-13.00	-48.54
7010.4	H	-	-	-81.37	9.79	35.42	-59.84	-13.00	-46.84

Table 7-44. Antenna D Radiated Spurious Data (WCDMA AWS – High Channel)

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7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

Test Overview and Limit

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

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

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

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

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

Test Setup

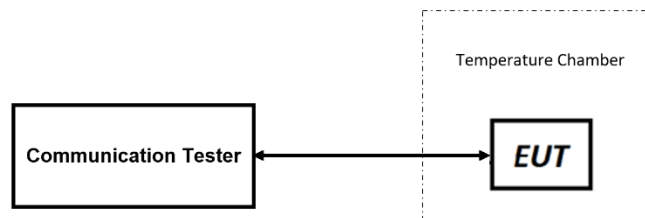



Figure 7-8. Test Instrument & Measurement Setup

Test Notes


1. All ports were tested and only the worst case data were reported

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Frequency Stability / Temperature Variation

LTE Band 66/4							
			Low Channel Frequency (Hz):		1,720,000,000		
			High Channel Frequency (Hz):		1,770,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,720,000,004	1,770,000,005	3	3	0.000000168
		- 20	1,720,000,004	1,770,000,005	2	3	0.000000149
		- 10	1,720,000,003	1,770,000,005	2	3	0.000000142
		0	1,720,000,003	1,770,000,005	2	3	0.000000162
		+ 10	1,720,000,002	1,770,000,005	1	3	0.000000160
		+ 20 (Ref)	1,720,000,001	1,770,000,002	0	0	0.000000000
		+ 30	1,720,000,004	1,770,000,004	3	2	0.000000182
		+ 40	1,720,000,004	1,770,000,005	2	3	0.000000151
		+ 50	1,720,000,004	1,770,000,005	3	3	0.000000162
Battery Endpoint	3.23	+ 20	1,720,000,004	1,770,000,005	2	3	0.000000148


Table 7-45. LTE Band 66/4 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 71							
			Low Channel Frequency (Hz):	673,000,000			
			High Channel Frequency (Hz):	688,000,000			
			Ref. Voltage (VDC):	3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	673,000,006	688,000,006	3	3	0.000000481
		- 20	673,000,006	688,000,007	3	4	0.000000517
		- 10	673,000,007	688,000,006	4	3	0.000000544
		0	673,000,006	688,000,006	3	3	0.000000485
		+ 10	673,000,006	688,000,006	3	3	0.000000480
		+ 20 (Ref)	673,000,003	688,000,003	0	0	0.000000000
		+ 30	673,000,006	688,000,007	3	4	0.000000520
		+ 40	673,000,006	688,000,007	3	4	0.000000536
		+ 50	673,000,006	688,000,007	3	4	0.000000223
Battery Endpoint	3.23	+ 20	673,000,006	688,000,007	3	3	0.000000197


Table 7-46. LTE Band 71 Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

LTE Band 12/17							
			Low Channel Frequency (Hz):		704,000,000		
			High Channel Frequency (Hz):		711,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	704,000,007	711,000,006	4	3	0.000000565
		- 20	704,000,007	711,000,007	4	4	0.000000598
		- 10	704,000,007	711,000,006	4	3	0.000000570
		0	704,000,006	711,000,007	3	4	0.000000543
		+ 10	704,000,006	711,000,007	3	4	0.000000554
		+ 20 (Ref)	704,000,003	711,000,003	0	0	0.000000000
		+ 30	704,000,006	711,000,006	3	3	0.000000478
		+ 40	704,000,007	711,000,007	4	4	0.000000598
		+ 50	704,000,007	711,000,006	4	3	0.000000237
Battery Endpoint	3.23	+ 20	704,000,007	711,000,007	3	4	0.000000218


Table 7-47. LTE Band 12/17 Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

LTE Band 13							
			Low Channel Frequency (Hz):	779,500,000			
			High Channel Frequency (Hz):	784,500,000			
			Ref. Voltage (VDC):	3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	779,500,007	784,500,006	4	3	0.000000516
		- 20	779,500,008	784,500,007	4	4	0.000000525
		- 10	779,500,008	784,500,007	4	3	0.000000527
		0	779,500,007	784,500,007	4	4	0.000000468
		+ 10	779,500,006	784,500,007	3	4	0.000000447
		+ 20 (Ref)	779,500,003	784,500,003	0	0	0.000000000
		+ 30	779,500,008	784,500,007	4	4	0.000000558
		+ 40	779,500,008	784,500,006	5	3	0.000000623
		+ 50	779,500,007	784,500,006	4	3	0.000000232
Battery Endpoint	3.23	+ 20	779,500,007	784,500,007	4	4	0.000000226


Table 7-48. LTE Band 13 Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Frequency Stability / Temperature Variation


WCDMA AWS							
			Low Channel Frequency (Hz):		1,712,400,000		
			High Channel Frequency (Hz):		1,752,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,712,399,999	1,752,599,999	-1	0	-0.000000030
		- 20	1,712,400,000	1,752,600,000	1	1	0.000000030
		- 10	1,712,400,000	1,752,600,000	1	1	0.000000034
		0	1,712,400,000	1,752,600,000	1	0	0.000000050
		+ 10	1,712,400,000	1,752,599,999	0	0	0.000000010
		+ 20 (Ref)	1,712,399,999	1,752,599,999	0	0	0.000000000
		+ 30	1,712,399,999	1,752,599,999	-1	-1	-0.000000042
		+ 40	1,712,399,999	1,752,599,999	0	0	-0.000000020
		+ 50	1,712,399,999	1,752,599,999	-1	-1	-0.000000036
Battery Endpoint	3.23	+ 20	1,712,399,999	1,752,599,998	0	-1	-0.000000057

Table 7-49. WCDMA AWS Frequency Stability Data

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 157 of 158

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2603** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device
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