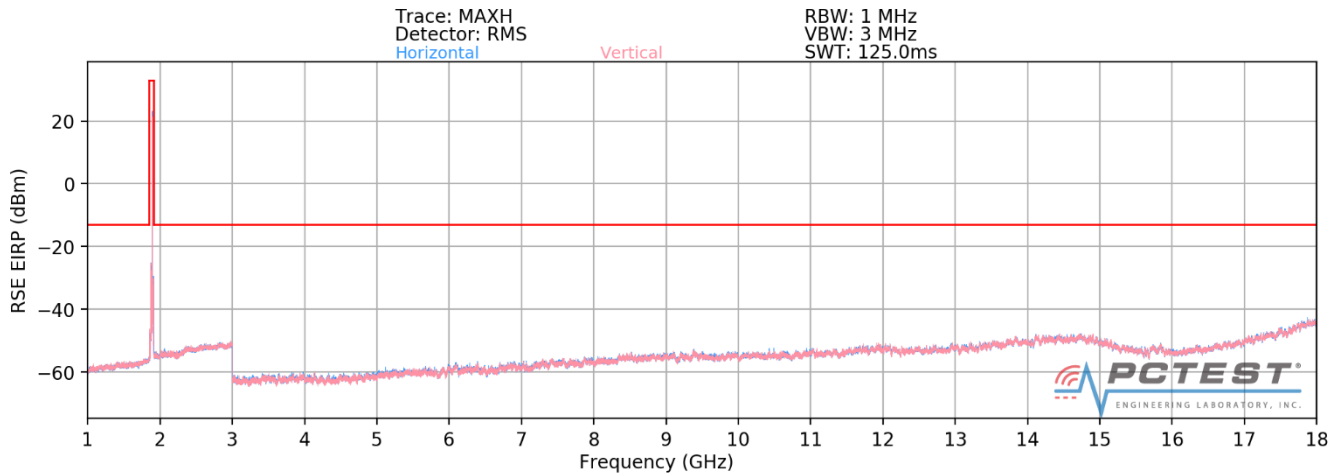
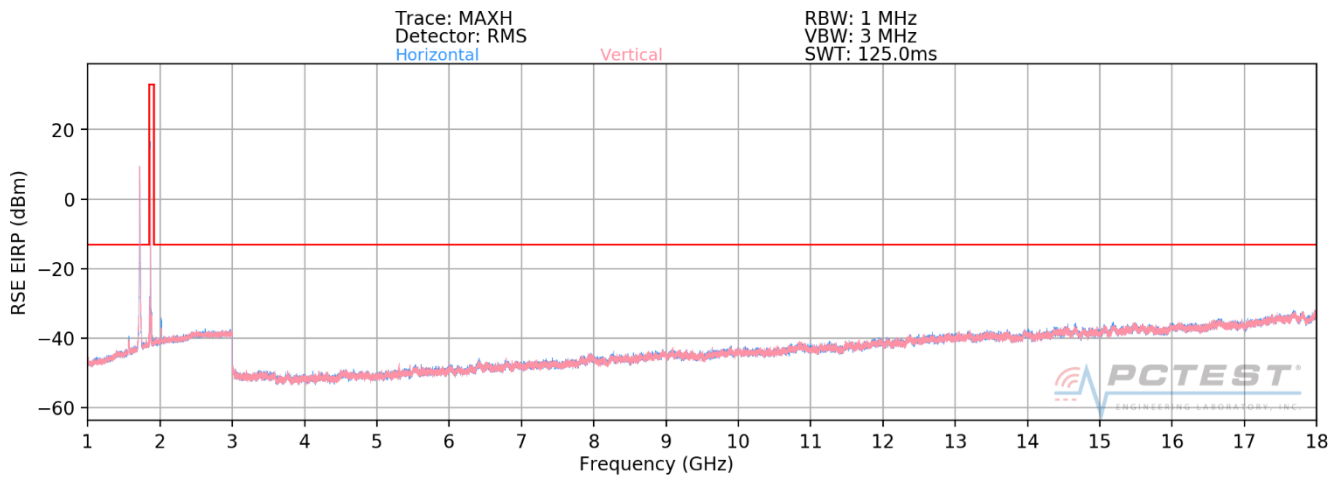


NR Band n2



Plot 7-442. Radiated Spurious Plot above 1GHz (n2 Standalone)



Plot 7-443. Radiated Spurious Plot above 1GHz (n2 ENDC - ANCHOR B66)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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OPERATING FREQUENCY: 1860.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	V	-	-	-67.94	9.51	-58.44	-45.4
5580.00	V	121	168	-62.53	10.99	-51.55	-38.5
7440.00	V	-	-	-64.10	10.99	-53.11	-40.1

Table 7-44. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– Low Channel)

OPERATING FREQUENCY: 1880.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	V	-	-	-67.05	9.37	-57.69	-44.7
5640.00	V	-	-	-66.26	11.17	-55.09	-42.1
7520.00	V	-	-	-62.62	11.11	-51.50	-38.5

Table 7-45. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– Mid Channel)

OPERATING FREQUENCY: 1900.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3800.00	V	-	-	-67.54	9.28	-58.26	-45.3
5700.00	V	-	-	-65.67	11.31	-54.36	-41.4
7600.00	V	-	-	-62.86	11.24	-51.62	-38.6

Table 7-46. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– High Channel)

FCC ID: ZNFV600AM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variatio

n5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 20525
 REFERENCE VOLTAGE: 4.18 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	836,499,940	-60	-0.0000072
100 %		- 20	836,500,133	133	0.0000159
100 %		- 10	836,499,746	-254	-0.0000304
100 %		0	836,500,319	319	0.0000381
100 %		+ 10	836,499,828	-172	-0.0000206
100 %		+ 20	836,500,349	349	0.0000417
100 %		+ 30	836,499,812	-188	-0.0000225
100 %		+ 40	836,499,952	-48	-0.0000057
100 %		+ 50	836,499,848	-152	-0.0000182
BATT. ENDPOINT	3.14	+ 20	836,500,108	108	0.0000129

Table 7-47. Frequency Stability Data (n5)

FCC ID: ZNFV600AM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
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n5 Frequency Stability Measurements

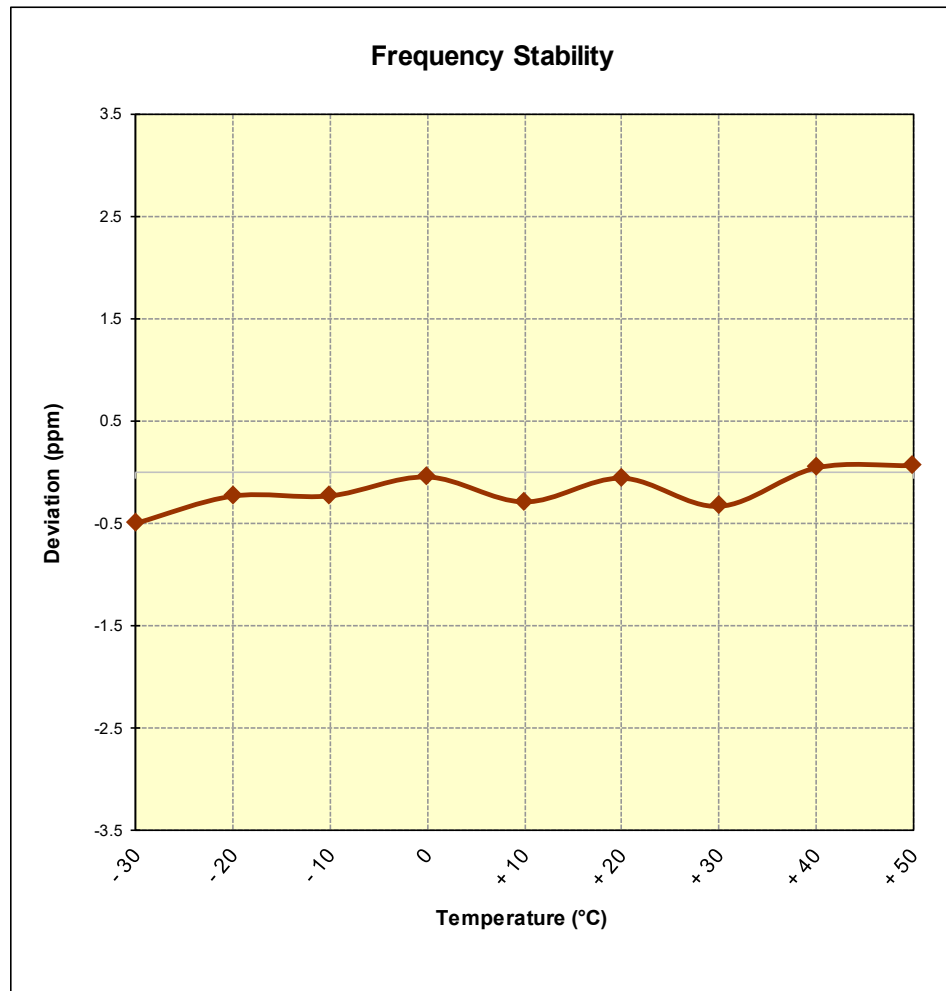


Figure 7-16. Frequency Stability Graph (n5)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1912300229-03.ZNF	Test Dates: 12/30/2019 - 2/14/2020	EUT Type: Portable Handset	Page 297 of 302

n66 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
 CHANNEL: 132322
 REFERENCE VOLTAGE: 4.18 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,745,000,246	246	0.0000141
100 %		- 20	1,745,000,108	108	0.0000062
100 %		- 10	1,744,999,898	-102	-0.0000058
100 %		0	1,745,000,006	6	0.0000003
100 %		+ 10	1,745,000,030	30	0.0000017
100 %		+ 20	1,744,999,869	-131	-0.0000075
100 %		+ 30	1,744,999,830	-170	-0.0000097
100 %		+ 40	1,744,999,948	-52	-0.0000030
100 %		+ 50	1,745,000,224	224	0.0000128
BATT. ENDPOINT	3.14	+ 20	1,745,000,199	199	0.0000114

Table 7-48. Frequency Stability Data (n66)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: ZNFV600AM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
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n66 Frequency Stability Measurements

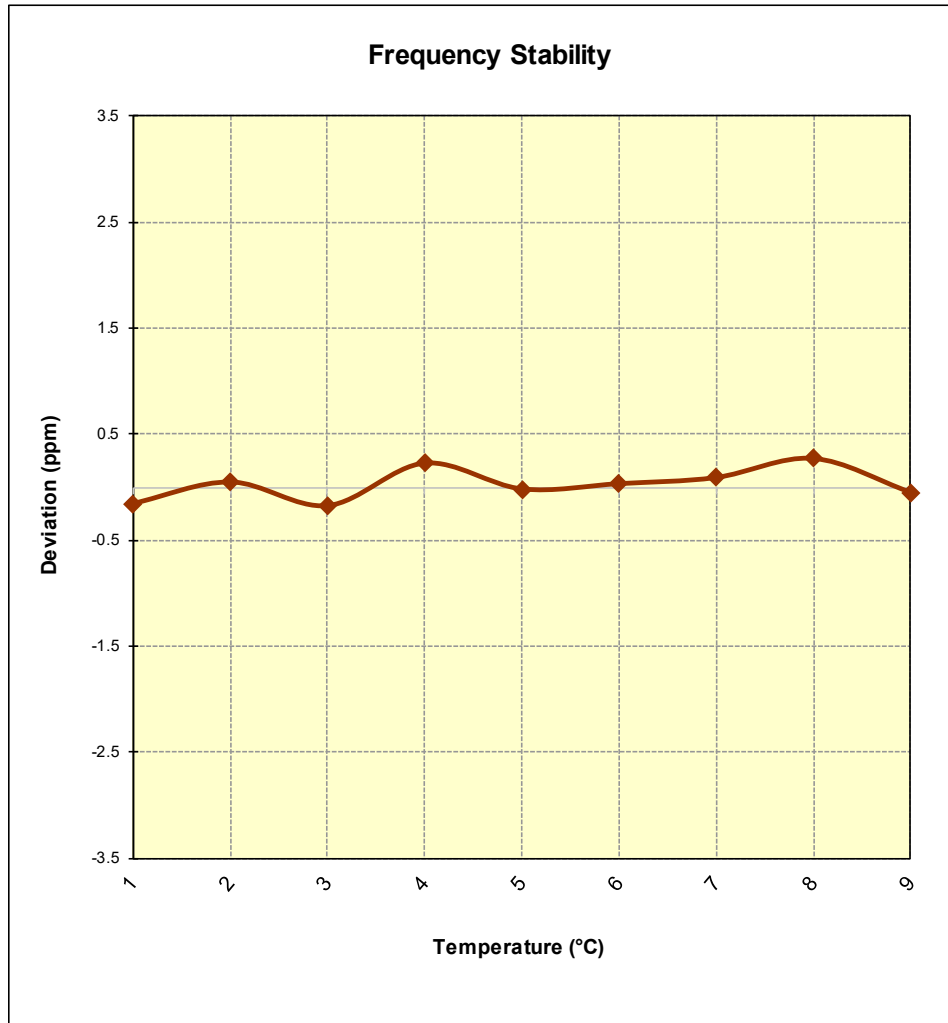


Figure 7-17. Frequency Stability Graph (n66)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1912300229-03.ZNF	Test Dates: 12/30/2019 - 2/14/2020	EUT Type: Portable Handset		Page 299 of 302

n2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,880,000,000 Hz
 CHANNEL: 18900
 REFERENCE VOLTAGE: 4.18 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,879,999,847	-153	-0.0000081
100 %		- 20	1,879,999,740	-260	-0.0000138
100 %		- 10	1,879,999,902	-98	-0.0000052
100 %		0	1,879,999,922	-78	-0.0000041
100 %		+ 10	1,880,000,016	16	0.0000009
100 %		+ 20	1,880,000,012	12	0.0000006
100 %		+ 30	1,879,999,588	-412	-0.0000219
100 %		+ 40	1,880,000,055	55	0.0000029
100 %		+ 50	1,879,999,629	-371	-0.0000197
BATT. ENDPOINT	3.14	+ 20	1,880,000,049	49	0.0000026

Table 7-49. Frequency Stability Data (n2)

FCC ID: ZNFV600AM	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
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n2 Frequency Stability Measurements

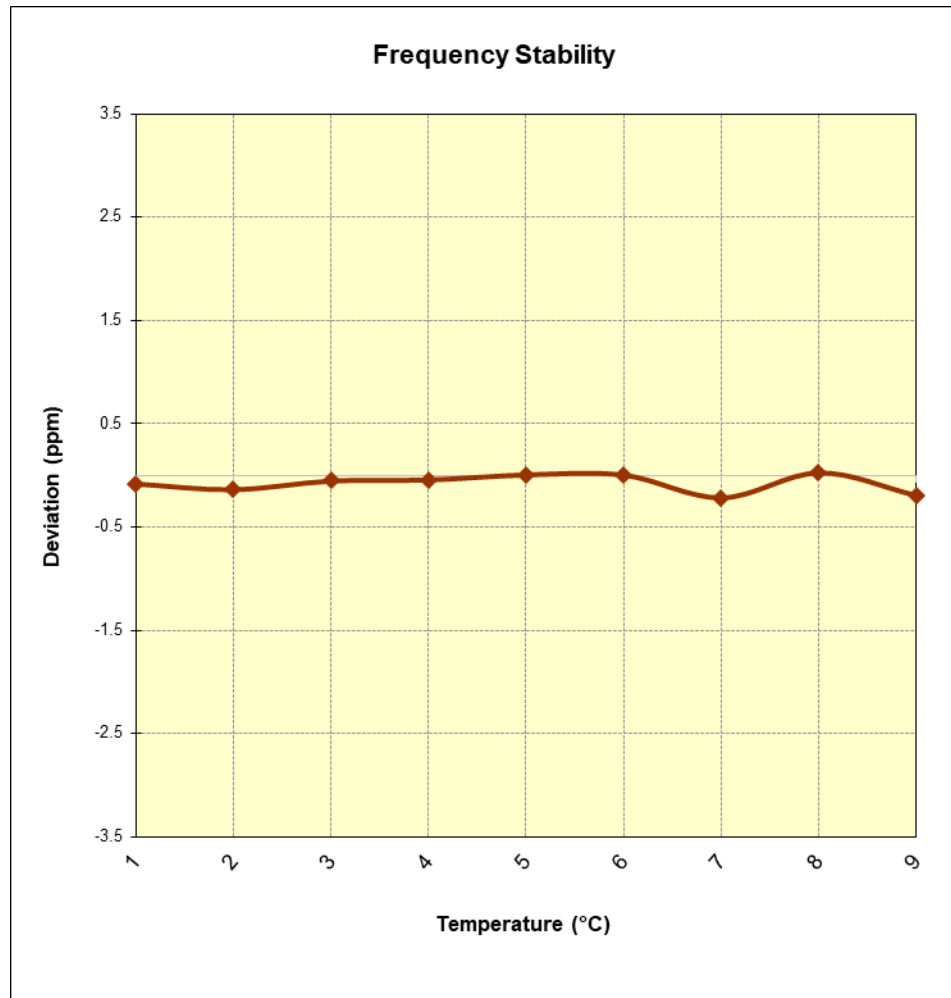


Figure 7-18. Frequency Stability Graph (n2)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1912300229-03.ZNF	Test Dates: 12/30/2019 - 2/14/2020	EUT Type: Portable Handset	Page 301 of 302

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFV600AM** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE and Sub 6GHz NR operation.

FCC ID: ZNFV600AM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300229-03.ZNF	Test Dates: 12/30/2019 - 2/14/2020	EUT Type: Portable Handset		Page 302 of 302