

Band 26/5 Frequency Stability Measurements

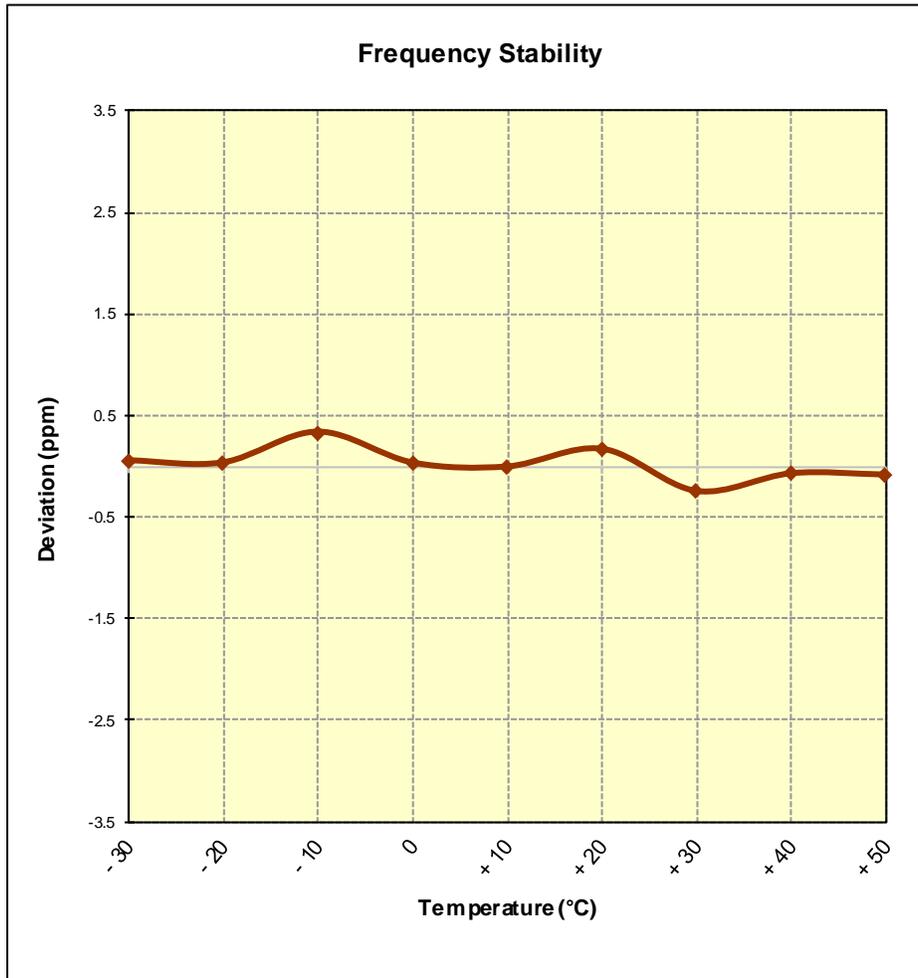


Figure 7-10. Frequency Stability Graph (Band 26/5)

FCC ID: A3LSMG977KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901160006-03.A3L	Test Dates: 1/16-3/14/2019	EUT Type: Portable Handset		Page 191 of 198

Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
 CHANNEL: 132322
 REFERENCE VOLTAGE: 4.20 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.20	- 30	1,744,999,776	-224	-0.0000128
100 %		- 20	1,744,999,976	-24	-0.0000014
100 %		- 10	1,745,000,179	179	0.0000103
100 %		0	1,744,999,989	-11	-0.0000006
100 %		+ 10	1,744,999,960	-40	-0.0000023
100 %		+ 20	1,744,999,896	-104	-0.0000060
100 %		+ 30	1,744,999,674	-326	-0.0000187
100 %		+ 40	1,744,999,737	-263	-0.0000151
100 %		+ 50	1,745,000,164	164	0.0000094
BATT. ENDPOINT		3.82	+ 20	1,745,000,195	195

Table 7-35. Frequency Stability Data (Band 66/4)

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.

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Band 66/4 Frequency Stability Measurements

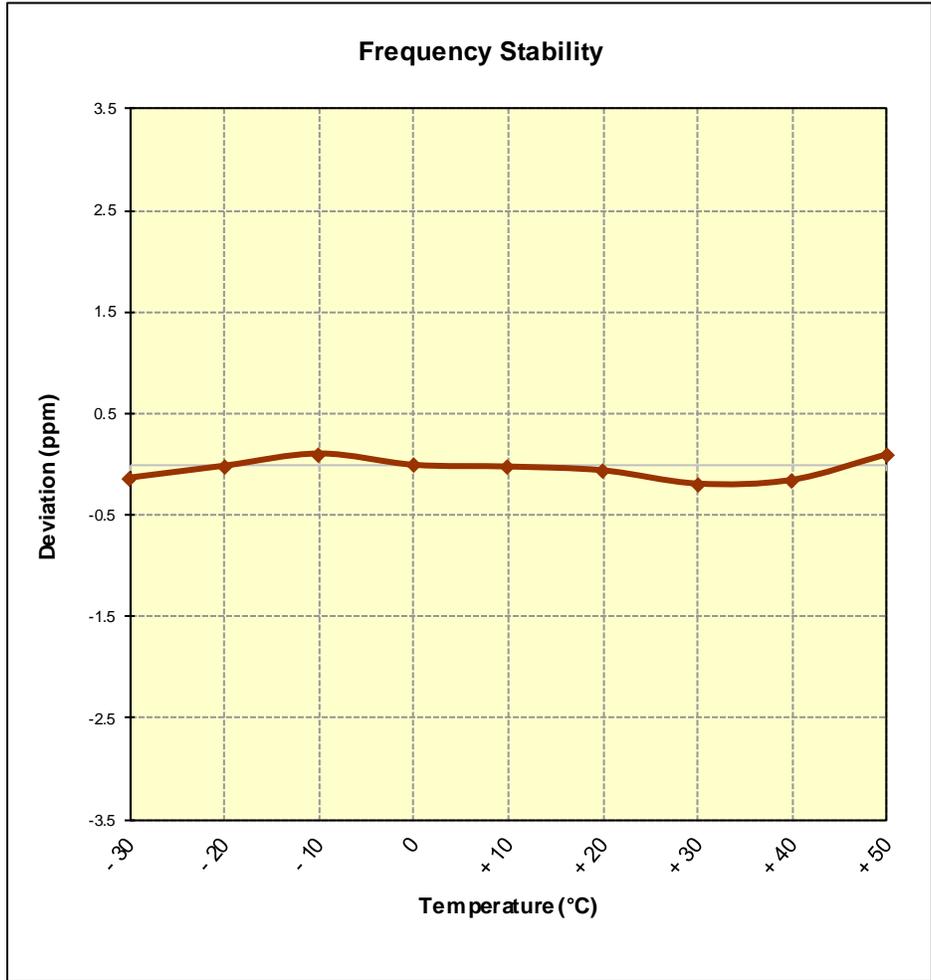


Figure 7-11. Frequency Stability Graph (Band 66/4)

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Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz
 CHANNEL: 26365
 REFERENCE VOLTAGE: 4.20 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.20	- 30	1,882,500,175	175	0.0000093
100 %		- 20	1,882,499,593	-407	-0.0000216
100 %		- 10	1,882,500,008	8	0.0000004
100 %		0	1,882,500,107	107	0.0000057
100 %		+ 10	1,882,499,799	-201	-0.0000107
100 %		+ 20	1,882,499,744	-256	-0.0000136
100 %		+ 30	1,882,499,999	-1	-0.0000001
100 %		+ 40	1,882,499,675	-325	-0.0000173
100 %		+ 50	1,882,499,959	-41	-0.0000022
BATT. ENDPOINT		3.82	+ 20	1,882,499,780	-220

Table 7-36. Frequency Stability Data (Band 25)

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Band 25/2 Frequency Stability Measurements

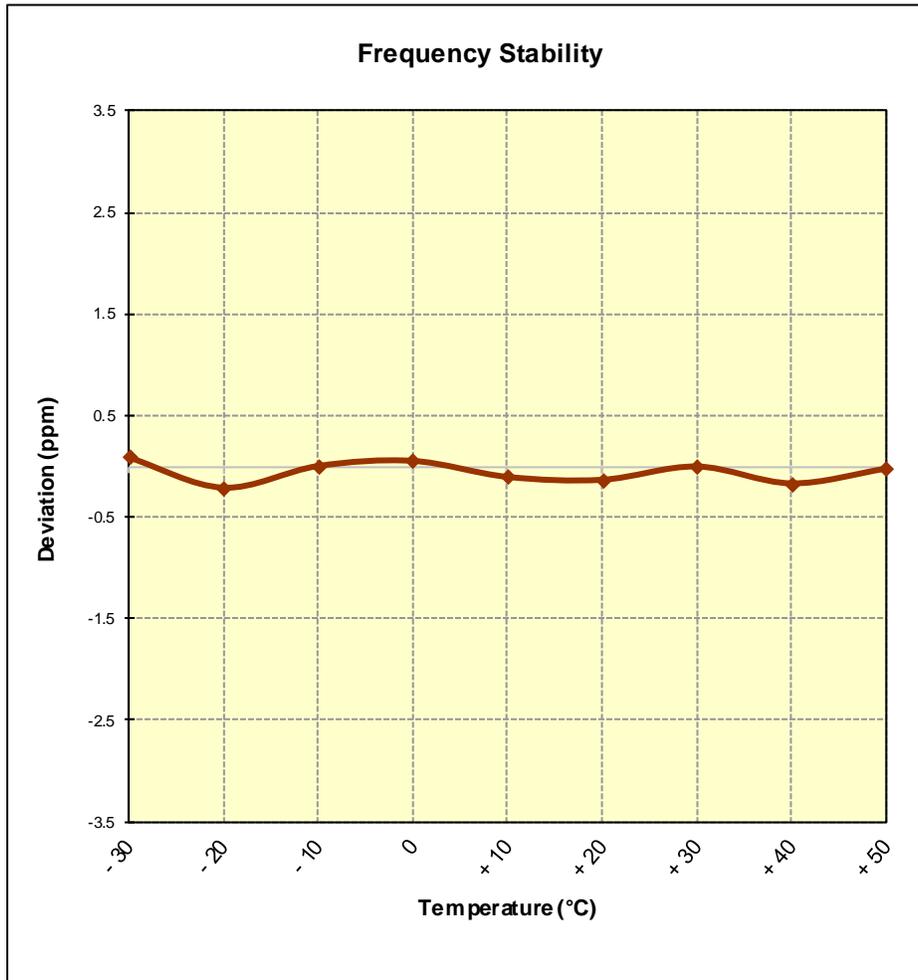


Figure 7-12. Frequency Stability Graph (Band 25)

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Band 41 Frequency Stability Measurements

OPERATING FREQUENCY: 2,593,000,000 Hz
 CHANNEL: 40620
 REFERENCE VOLTAGE: 4.20 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.20	- 30	2,593,000,116	116	0.0000045
100 %		- 20	2,592,999,652	-348	-0.0000134
100 %		- 10	2,592,999,768	-232	-0.0000089
100 %		0	2,593,000,197	197	0.0000076
100 %		+ 10	2,593,000,004	4	0.0000002
100 %		+ 20	2,592,999,921	-79	-0.0000030
100 %		+ 30	2,593,000,301	301	0.0000116
100 %		+ 40	2,592,999,653	-347	-0.0000134
100 %		+ 50	2,592,999,951	-49	-0.0000019
BATT. ENDPOINT		3.82	+ 20	2,592,999,867	-133

Table 7-37. Frequency Stability Data (Band 41)

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.

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Band 41 Frequency Stability Measurements

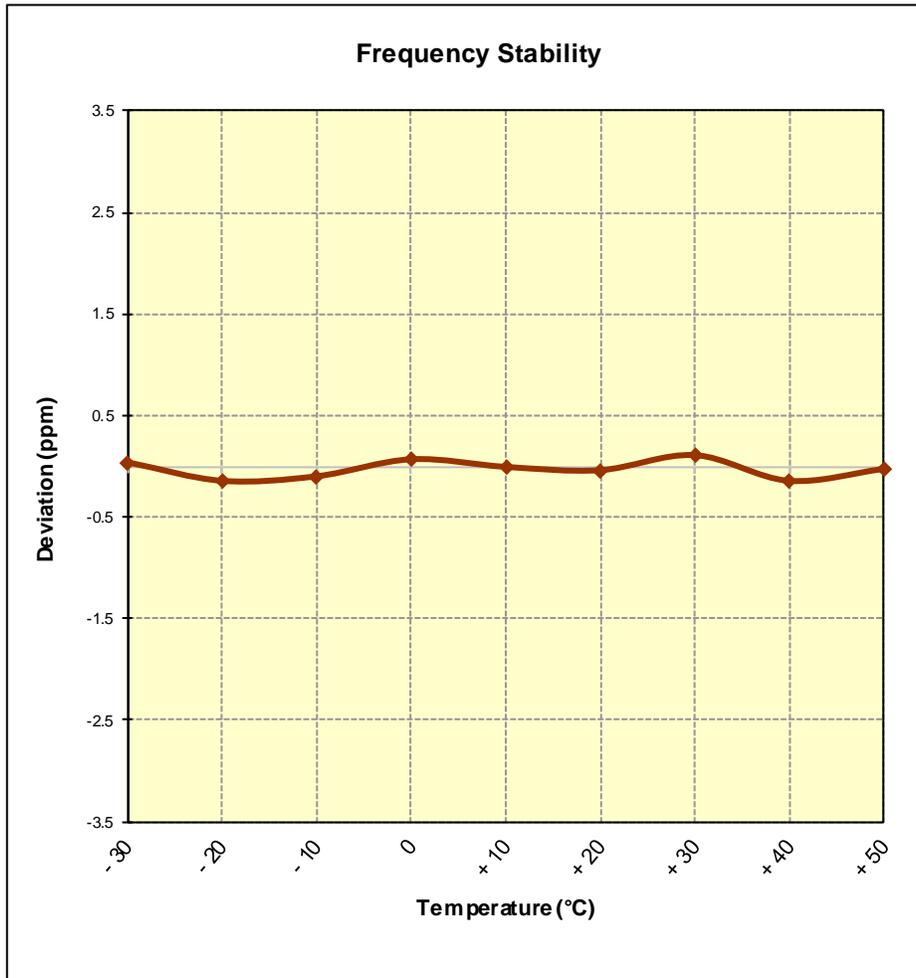


Figure 7-13. Frequency Stability Graph (Band 41)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG977KOR** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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