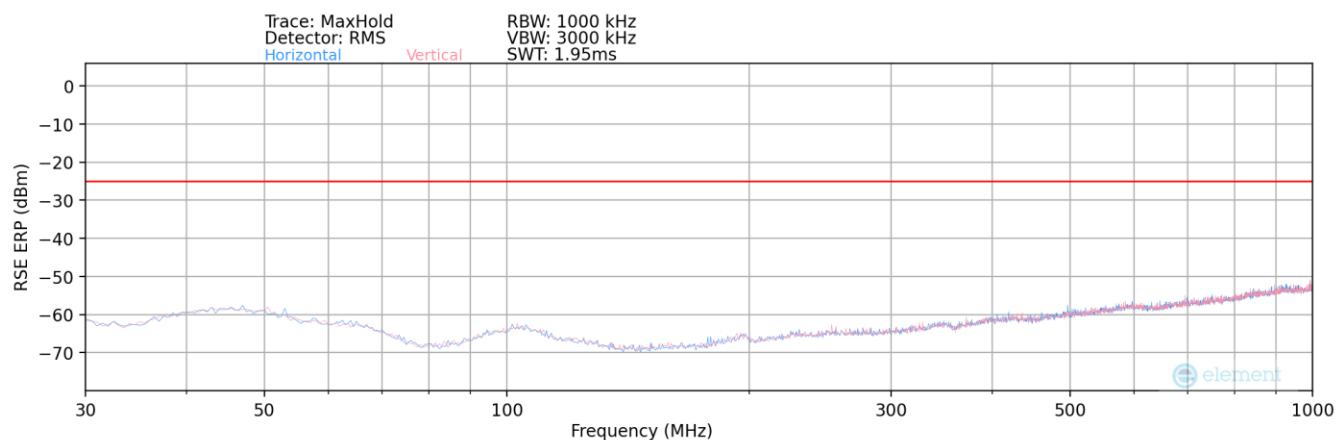
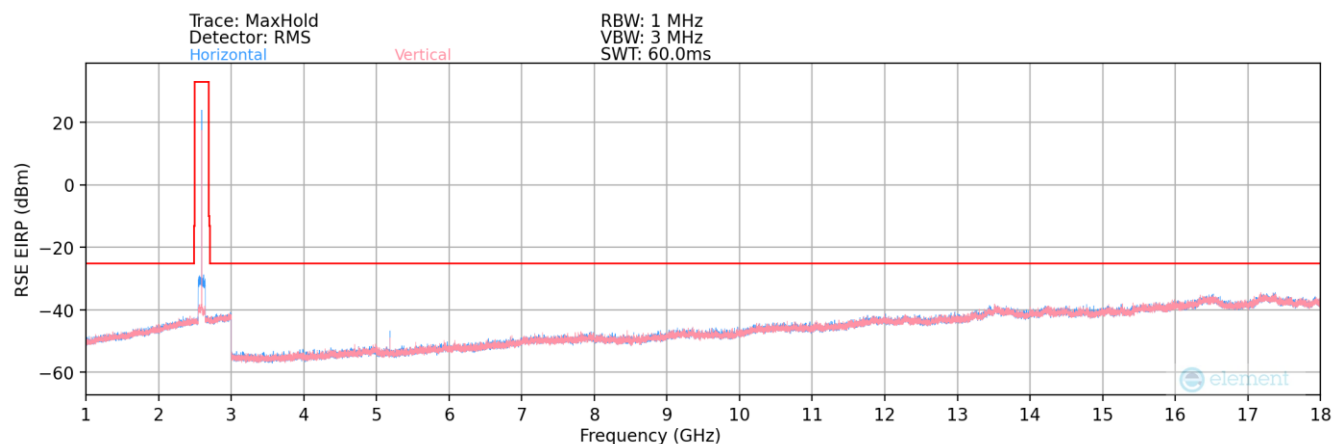


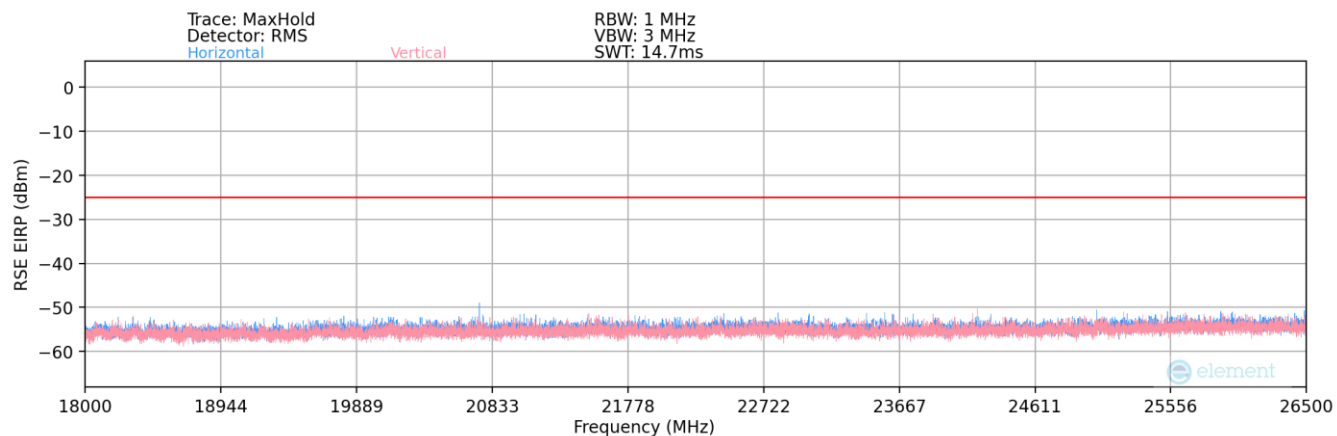
NR Band n41 – Ant2



Plot 7-144. Radiated Spurious Plot (NR Band n41 – Ant2)



Plot 7-145. Radiated Spurious Plot (NR Band n41 – Ant2)



Plot 7-146. Radiated Spurious Plot (NR Band n41 – Ant2)

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Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

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]
5092.02	H	-	-	-72.91	10.12	44.21	-51.05	-25.00	-26.05
7638.03	H	-	-	-74.47	15.84	48.37	-46.88	-25.00	-21.88
10184.04	H	-	-	-75.83	19.71	50.88	-44.37	-25.00	-19.37

Table 7-35. Radiated Spurious Data (NR Band n41 – Low Channel – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

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]
5185.98	H	139	339	-66.43	10.54	51.11	-44.15	-25.00	-19.15
7778.97	H	-	-	-74.73	15.59	47.86	-47.40	-25.00	-22.40
10371.96	H	-	-	-75.61	19.60	50.99	-44.27	-25.00	-19.27
12964.95	H	-	-	-76.75	24.23	54.48	-40.78	-25.00	-15.78

Table 7-36. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

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]
5280.00	H	173	337	-69.49	10.33	47.84	-47.41	-25.00	-22.41
7920.00	H	-	-	-74.91	15.63	47.72	-47.53	-25.00	-22.53
10560.00	H	-	-	-75.31	19.99	51.68	-43.58	-25.00	-18.58
13200.00	H	-	-	-76.79	24.39	54.60	-40.66	-25.00	-15.66

Table 7-37. Radiated Spurious Data (NR Band n41 – High Channel – Ant2)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
53.00	H	-	-	-56.93	-11.11	38.96	-58.45	-25.00	-33.45

Table 7-38. Radiated Spurious Data (NR Band n41 – High Channel – Ant2)

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. 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 – Section 5.6

Test Settings

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

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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LTE Band 41

Operating Frequency (Hz):	2,593,000,000
Ref. Voltage (VDC):	4.27

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	2,593,106,370	912	0.0000352
		- 20	2,593,101,646	-3,812	-0.0001470
		- 10	2,593,102,395	-3,063	-0.0001181
		0	2,593,106,712	1,254	0.0000484
		+ 10	2,593,107,200	1,742	0.0000672
		+ 20 (Ref)	2,593,105,458	0	0.0000000
		+ 30	2,593,104,162	-1,296	-0.0000500
		+ 40	2,593,104,639	-819	-0.0000316
		+ 50	2,593,104,776	-682	-0.0000263
Battery Endpoint	3.68	+ 20	2,593,107,211	1,753	0.0000676

Table 7-9. LTE Band 41(PC3) Frequency Stability Data

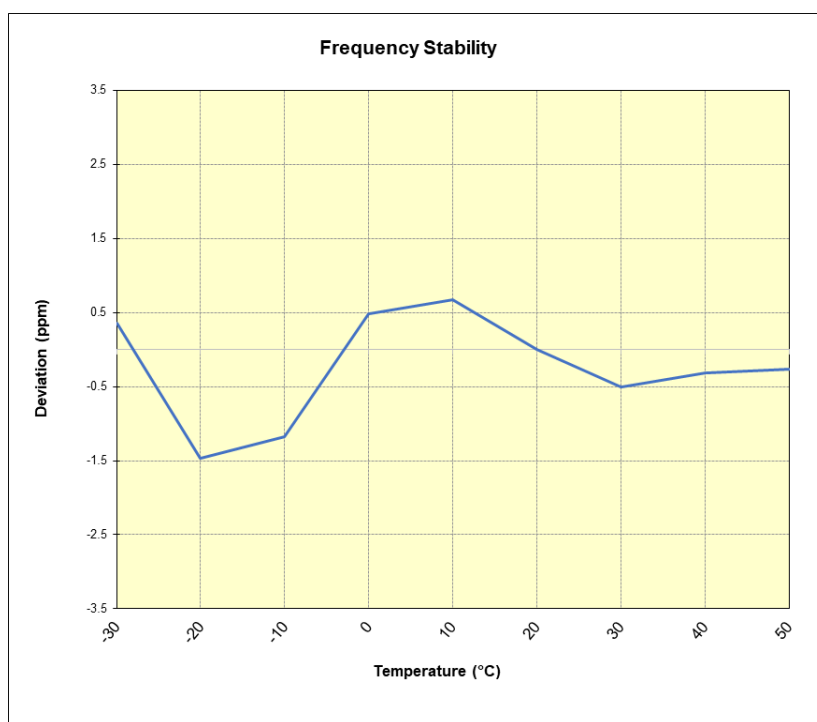


Table 7-9. LTE Band 41(PC3) Frequency Stability Chart

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NR Band n41					
Operating Frequency (Hz):			2,593,000,000		
Ref. Voltage (VDC):			4.27		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	2,593,121,045	716	0.0000276
		- 20	2,593,121,747	1,418	0.0000547
		- 10	2,593,121,147	818	0.0000315
		0	2,593,120,147	-182	-0.0000070
		+ 10	2,593,120,547	218	0.0000084
		+ 20 (Ref)	2,593,120,329	0	0.0000000
		+ 30	2,593,121,444	1,115	0.0000430
		+ 40	2,593,122,147	1,818	0.0000701
		+ 50	2,593,121,587	1,258	0.0000485
Battery Endpoint	3.68	+ 20	2,593,122,011	1,682	0.0000649

Table 7-9. NR Band n41 Frequency Stability Data

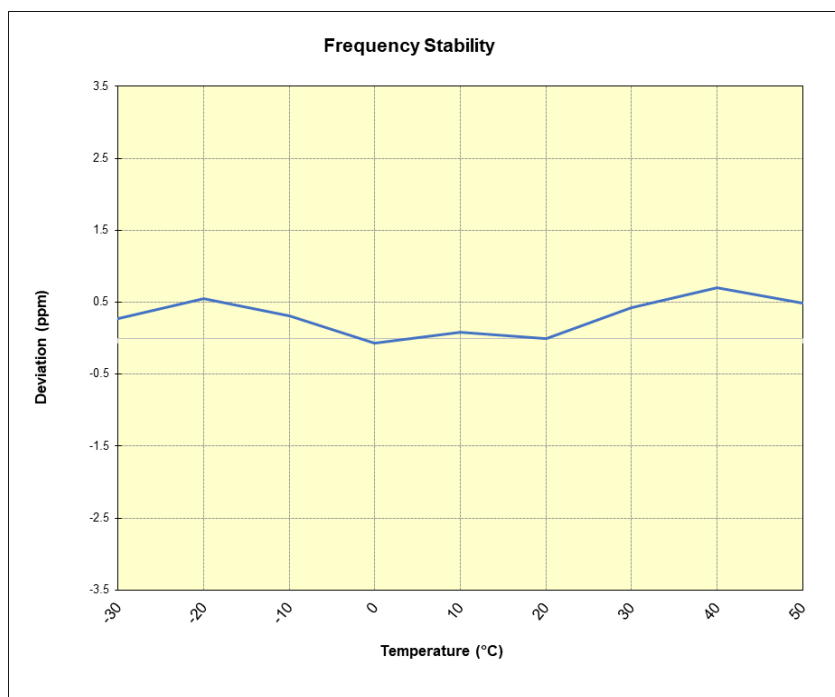


Table 7-9. NR Band n41 Frequency Stability Chart

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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: A3LSMS928JPN** complies with all the requirements of Part 27 of the FCC rules.

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