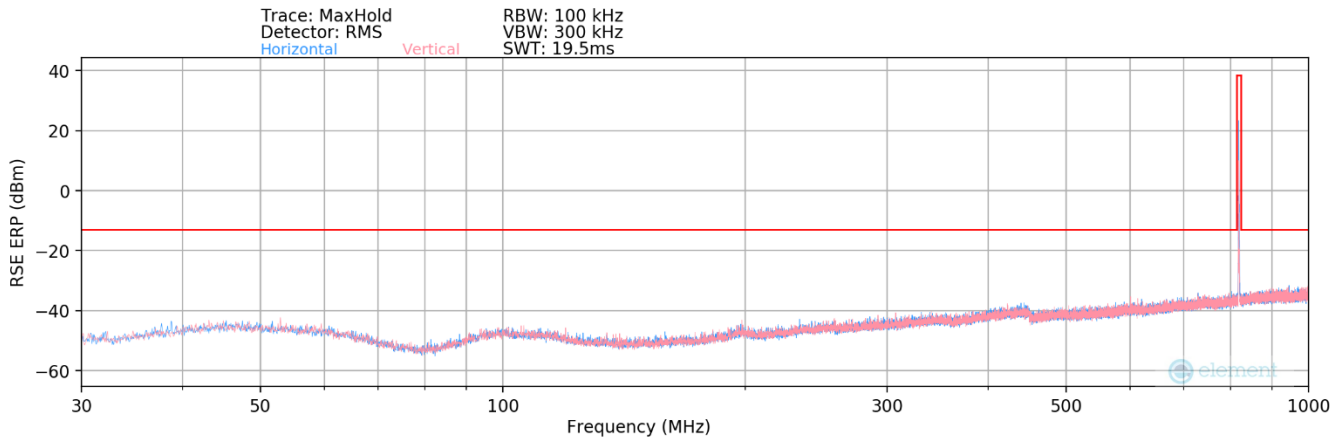


## LTE Band 26 – Ant 0

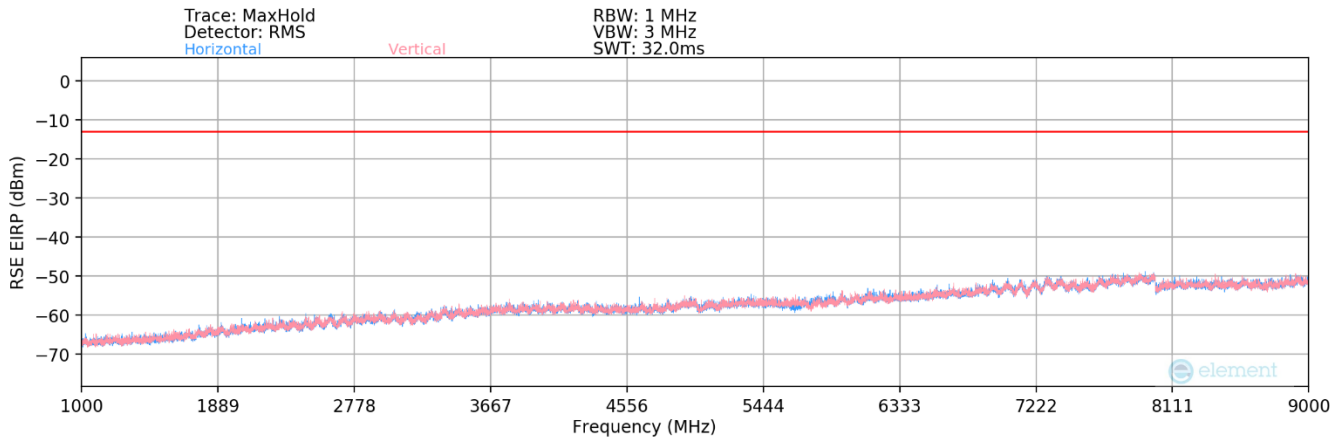


**Plot 7-33. Radiated Spurious Plot Below 1GHz (LTE Band 26 – Ant 0)**

Bandwidth (MHz):	15
Frequency (MHz):	819
RB Config (Size / 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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
984.64	H	-	-	-82.39	30.99	55.60	-41.81	-13.00	-28.81

**Table 7-10. Radiated Spurious Data Below 1GHz (LTE Band 26 – Ant 0)**



**Plot 7-34. Radiated Spurious Plot Above 1GHz (LTE Band 26 – Ant 0)**

FCC ID: A3LSMS928B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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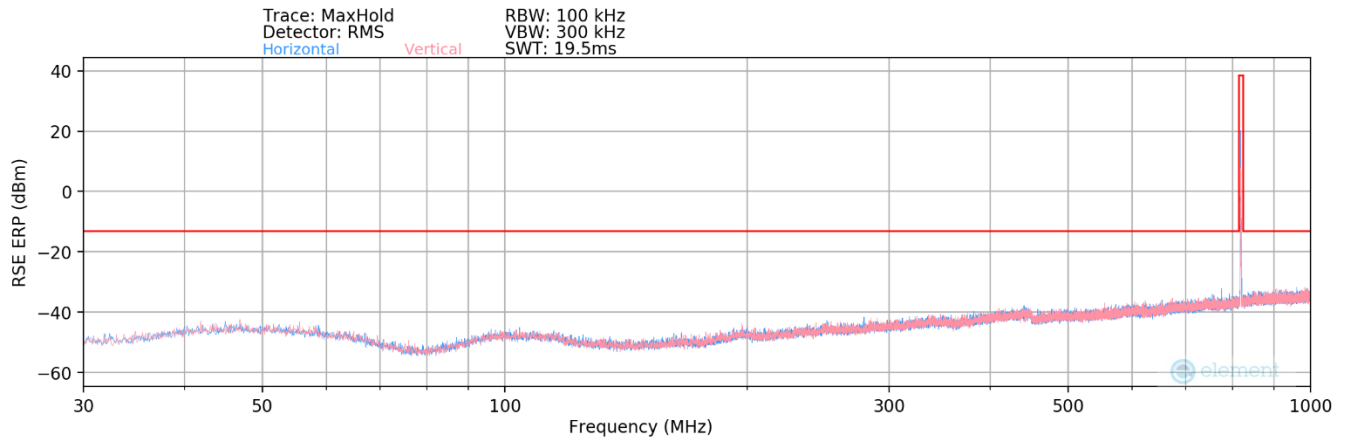
Bandwidth (MHz):	15
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 37

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]
1638.00	H	-	-	-74.43	-9.17	23.40	-71.86	-13.00	-58.86
2457.00	H	-	-	-74.39	-5.76	26.85	-68.41	-13.00	-55.41
3276.00	H	-	-	-75.09	-2.75	29.16	-66.10	-13.00	-53.10

**Table 7-11. Radiated Spurious Data Above 1GHz (LTE Band 26 – Mid Channel – Ant 0)**

<b>FCC ID:</b> A3LSMS928B	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-06.A3L	<b>Test Dates:</b> 8/23/2023 - 10/18/2023	<b>EUT Type:</b> Portable Handset	Page 45 of 50

## LTE Band 26 – Ant 6

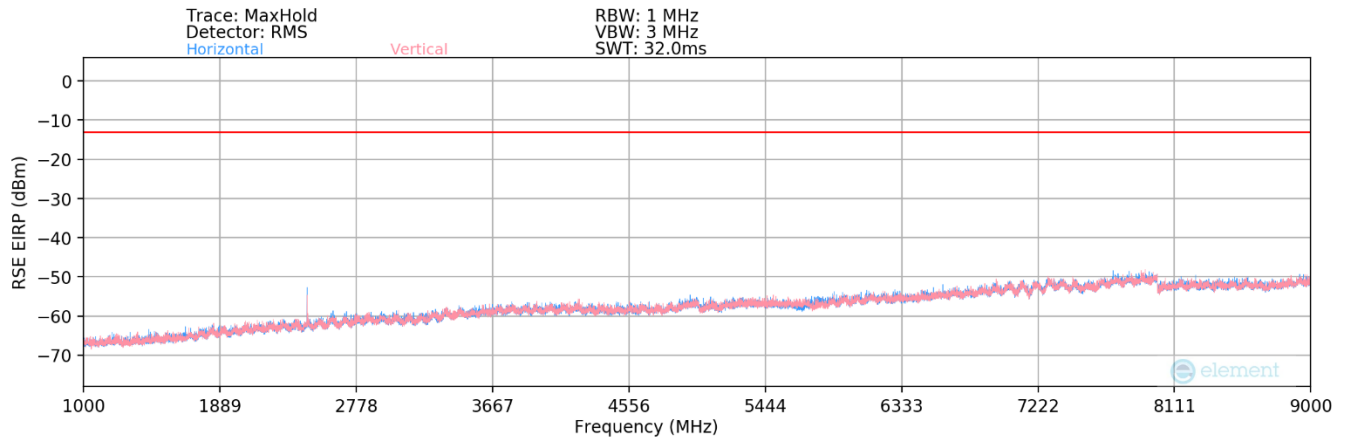


**Plot 7-35. Radiated Spurious Plot Below 1GHz (LTE Band 26 – Ant 6)**

Bandwidth (MHz):	15
Frequency (MHz):	819
RB Config (Size / 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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
865.81	H	-	-	-82.14	30.15	55.01	-42.40	-13.00	-29.40

**Table 7-12. Radiated Spurious Data Below 1GHz (LTE Band 26 – Ant 6)**



**Plot 7-36. Radiated Spurious Plot Above 1GHz (LTE Band 26 – Ant 6)**

FCC ID: A3LSMS928B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2308210093-06.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 46 of 50

Bandwidth (MHz):	15
Frequency (MHz):	819
RB Config (Size / 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]
1638.00	H	-	-	-73.68	-9.17	24.15	-71.11	-13.00	-58.11
2457.00	H	111	327	-64.38	-5.76	36.86	-58.40	-13.00	-45.40
3276.00	H	-	-	-74.27	-2.75	29.98	-65.28	-13.00	-52.28
4095.00	H	-	-	-76.31	0.01	30.70	-64.56	-13.00	-51.56
4914.00	H	-	-	-75.32	0.69	32.37	-62.89	-13.00	-49.89

**Table 7-13. Radiated Spurious Data Above 1GHz (LTE Band 26 – Mid Channel – Ant 6)**

<b>FCC ID:</b> A3LSMS928B	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
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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.

***The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency.***

### 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

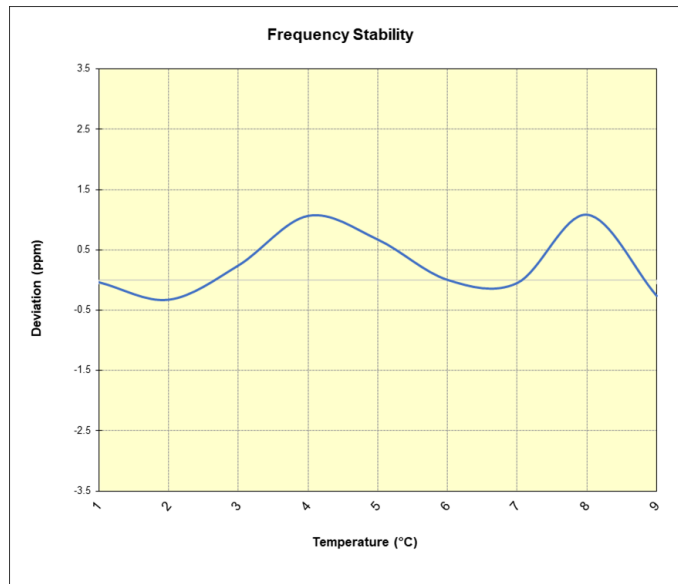
None

FCC ID: A3LSMS928B	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## LTE Band 26

LTE Band 26					
Operating Frequency (Hz):		821,500,000			
Ref. Voltage (VDC):		4.27			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	821,499,052	-33	-0.0000040
		- 20	821,498,814	-270	-0.0000329
		- 10	821,499,282	197	0.0000240
		0	821,499,958	873	0.0001063
		+ 10	821,499,634	549	0.0000669
		+ 20 (Ref)	821,499,084	0	0.0000000
		+ 30	821,499,042	-43	-0.0000052
		+ 40	821,499,973	889	0.0001082
Battery Endpoint	3.68	+ 20	821,498,773	-311	-0.0000379

Table 7-14. LTE Band 26 Frequency Stability Data



Plot 7-37. LTE Band 26 Frequency Stability Chart

FCC ID: A3LSMS928B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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: A3LSMS928B** complies with all the requirements of Parts 22(H) and 90 of the FCC rules.

FCC ID: A3LSMS928B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2308210093-06.A3L	Test Dates: 8/23/2023 - 10/18/2023	EUT Type: Portable Handset	Page 50 of 50