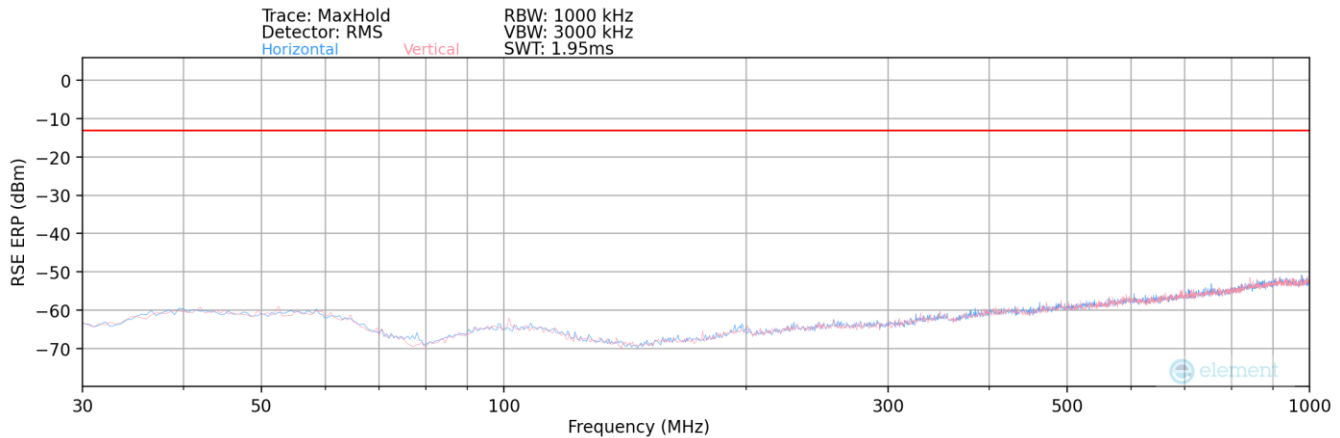


NR Band n25/2 – Ant1

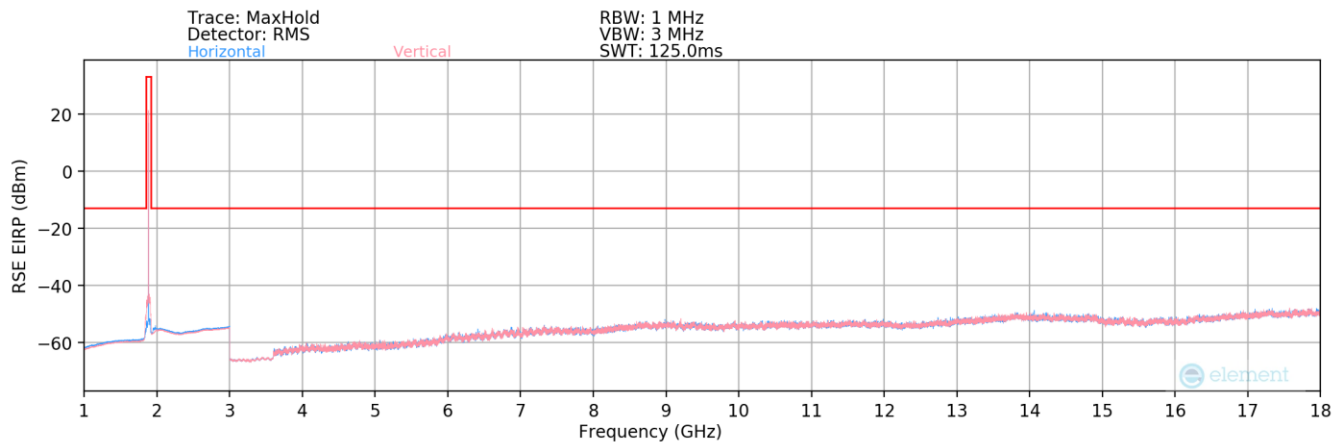


Plot 7-195. Radiated Spurious Plot – Below 1GHz (NR Band n25/2 - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
150.00	V	-	-	-81.20	-16.75	9.05	-88.36	-13.00	-75.36

Table 7-38. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant1)



Plot 7-196. Radiated Spurious Plot – Above 1GHz (NR Band n25/2 - Ant1)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 148 of 159

Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3740.00	V	134	234	-78.72	7.64	35.92	-59.34	-13.00	-46.34
5610.00	V	-	-	-81.30	11.33	37.03	-58.23	-13.00	-45.23
7480.00	V	-	-	-82.09	15.46	40.37	-54.89	-13.00	-41.89
9350.00	V	-	-	-82.43	18.55	43.12	-52.14	-13.00	-39.14

Table 7-39. Radiated Spurious Data (NR Band n25/2 – Low Channel - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3765.00	V	154	281	-78.14	7.94	36.80	-58.46	-13.00	-45.46
5647.50	V	-	-	-81.34	11.39	37.05	-58.21	-13.00	-45.21
7530.00	V	-	-	-82.11	15.50	40.39	-54.87	-13.00	-41.87
9412.50	V	-	-	-83.04	17.97	41.93	-53.33	-13.00	-40.33

Table 7-40. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant1)

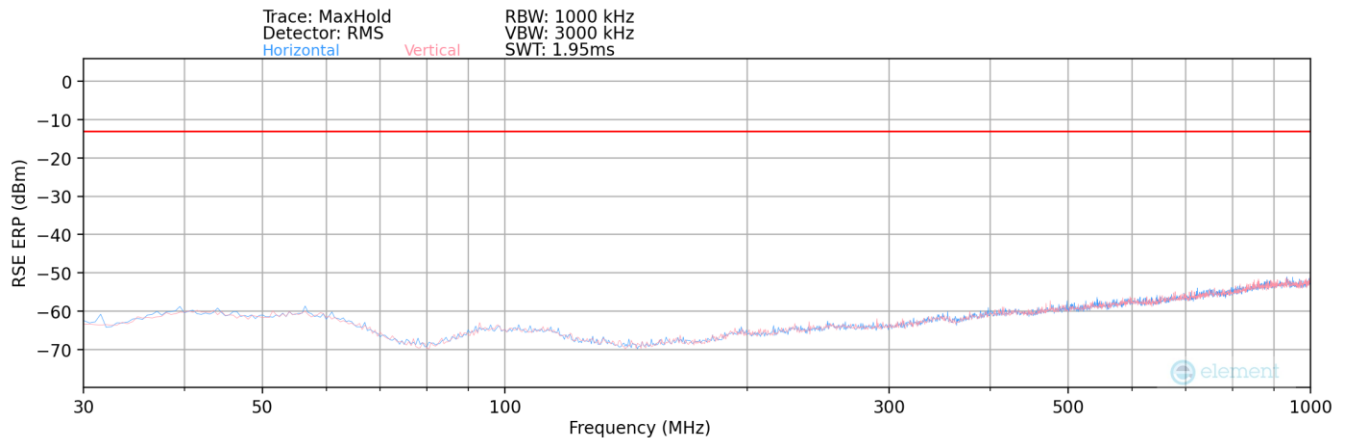
Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3790.00	V	-	-	-80.05	8.17	35.12	-60.14	-13.00	-47.14
5685.00	V	-	-	-80.83	10.99	37.16	-58.09	-13.00	-45.09
7580.00	V	-	-	-82.25	15.58	40.33	-54.93	-13.00	-41.93

Table 7-41. Radiated Spurious Data (NR Band n25/2 – High Channel - Ant1)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 149 of 159

LTE Band 25/2 – Ant2

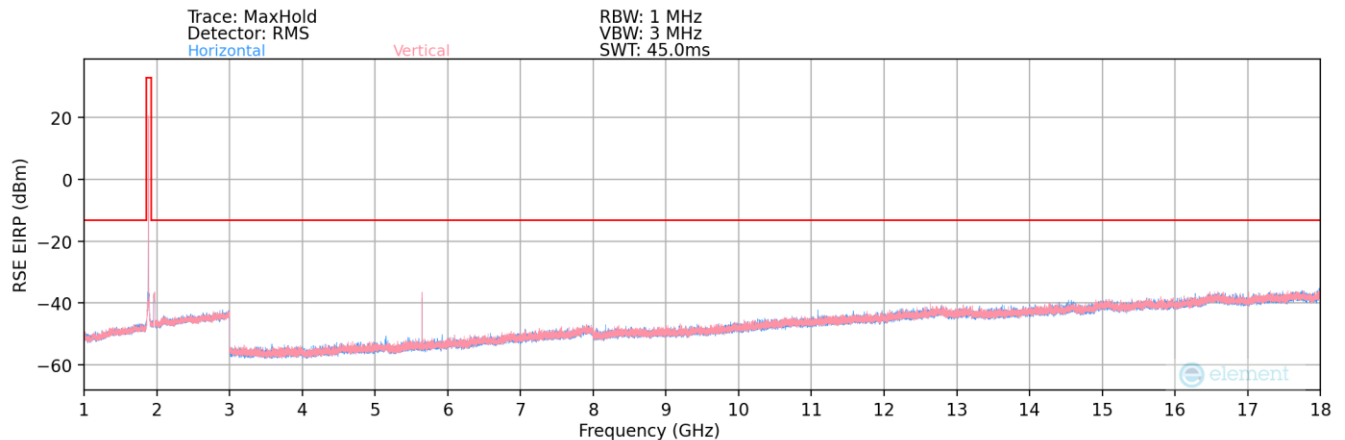


Plot 7-197. Radiated Spurious Plot – Below 1GHz(LTE Band 25/2 - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
550.00	H	-	-	-76.20	-5.69	25.11	-72.30	-13.00	-59.30

Table 7-42. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)



Plot 7-198. Radiated Spurious Plot – Above 1GHz (LTE Band 25/2 - Ant2)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 150 of 159

Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	H	112	258	-75.18	5.46	37.28	-57.98	-13.00	-44.98
5580.00	H	108	261	-62.92	8.50	52.58	-42.68	-13.00	-29.68
7440.00	H	-	-	-80.60	12.70	39.10	-56.15	-13.00	-43.15
9300.00	H	-	-	-80.55	14.62	41.07	-54.19	-13.00	-41.19
11160.00	H	-	-	-81.37	17.75	43.38	-51.88	-13.00	-38.88

Table 7-43. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	H	146	301	-76.71	5.68	35.97	-59.29	-13.00	-46.29
5647.50	H	120	259	-63.23	8.29	52.06	-43.20	-13.00	-30.20
7530.00	H	-	-	-80.85	13.00	39.15	-56.11	-13.00	-43.11
9412.50	H	-	-	-79.63	15.53	42.90	-52.35	-13.00	-39.35
11295.00	H	-	-	-81.20	18.25	44.05	-51.21	-13.00	-38.21

Table 7-44. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)

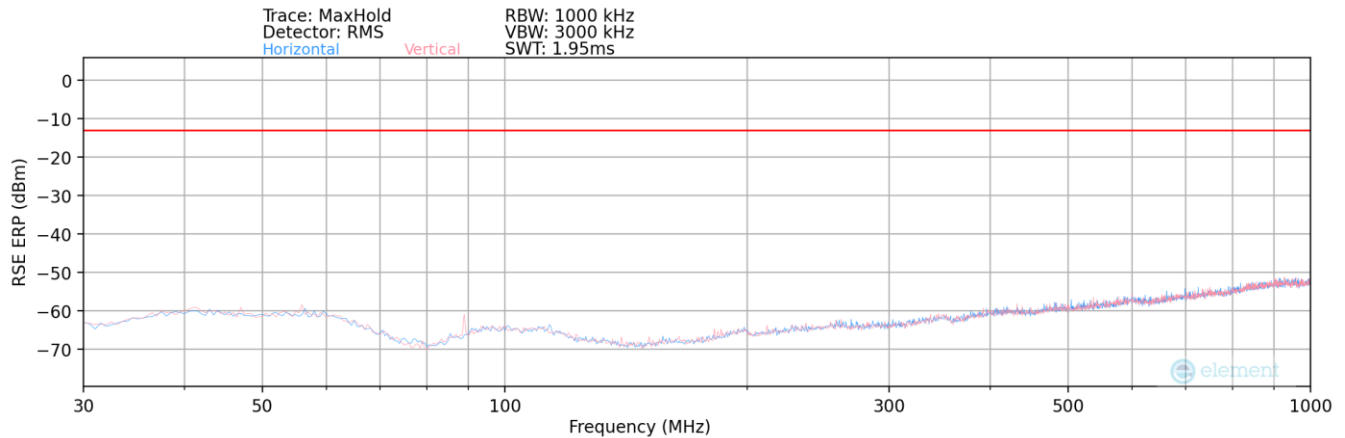
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

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]
3810.00	H	152	237	-78.20	5.87	34.67	-60.59	-13.00	-47.59
5715.00	H	118	273	-66.67	8.47	48.80	-46.45	-13.00	-33.45
7620.00	H	-	-	-80.12	12.67	39.55	-55.71	-13.00	-42.71
9525.00	H	108	8	-75.59	14.64	46.05	-49.21	-13.00	-36.21
11430.00	H	-	-	-81.37	18.17	43.80	-51.46	-13.00	-38.46
13335.00	H	-	-	-81.11	20.63	46.52	-48.74	-13.00	-35.74
15240.00	H	-	-	-81.84	22.53	47.69	-47.57	-13.00	-34.57

Table 7-45. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant2)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 151 of 159

NR Band n25/2 – Ant2

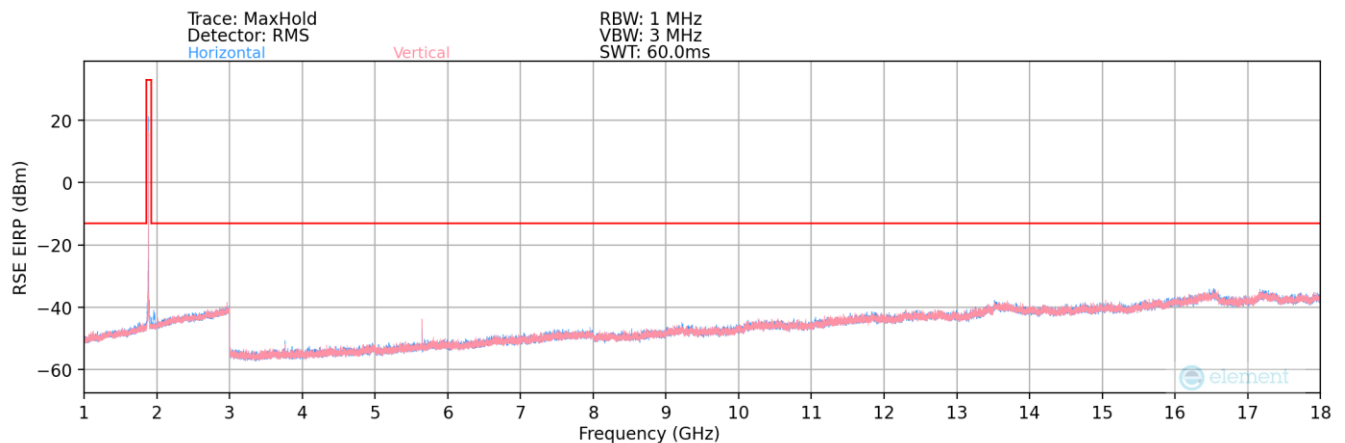


Plot 7-199. Radiated Spurious Plot – Below 1GHz (NR Band n25/2 - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
85.00	H	-	-	-68.13	-17.12	21.75	-75.66	-13.00	-62.66

Table 7-46. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant2)



Plot 7-200. Radiated Spurious Plot – Above 1GHz (NR Band n25/2 - Ant2)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 152 of 159

Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3740.00	H	102	230	-71.26	7.60	43.34	-51.92	-13.00	-38.92
5610.00	H	-	-	-81.35	11.46	37.11	-58.15	-13.00	-45.15
7480.00	H	-	-	-81.70	15.34	40.64	-54.62	-13.00	-41.62
9350.00	H	-	-	-82.53	17.83	42.30	-52.96	-13.00	-39.96

Table 7-47. Radiated Spurious Data (NR Band n25/2 – Low Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3765.00	H	116	301	-76.63	7.94	38.31	-56.95	-13.00	-43.95
5647.50	H	297	299	-72.77	11.39	45.62	-49.64	-13.00	-36.64
7530.00	H	-	-	-82.05	15.50	40.45	-54.81	-13.00	-41.81
9412.50	H	-	-	-83.00	17.97	41.97	-53.29	-13.00	-40.29
11295.00	H	-	-	-83.14	21.07	44.93	-50.33	-13.00	-37.33

Table 7-48. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108
Mode:	Stand Alone

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]
3790.00	H	133	302	-70.86	8.10	44.24	-51.02	-13.00	-38.02
5685.00	H	-	-	-80.94	11.31	37.37	-57.88	-13.00	-44.88
7580.00	H	-	-	-82.25	15.70	40.45	-54.81	-13.00	-41.81
9475.00	H	-	-	-83.06	18.06	42.00	-53.26	-13.00	-40.26

Table 7-49. Radiated Spurious Data (NR Band n25/2 – High Channel - Ant2)

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 153 of 159

7.9 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 24, 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

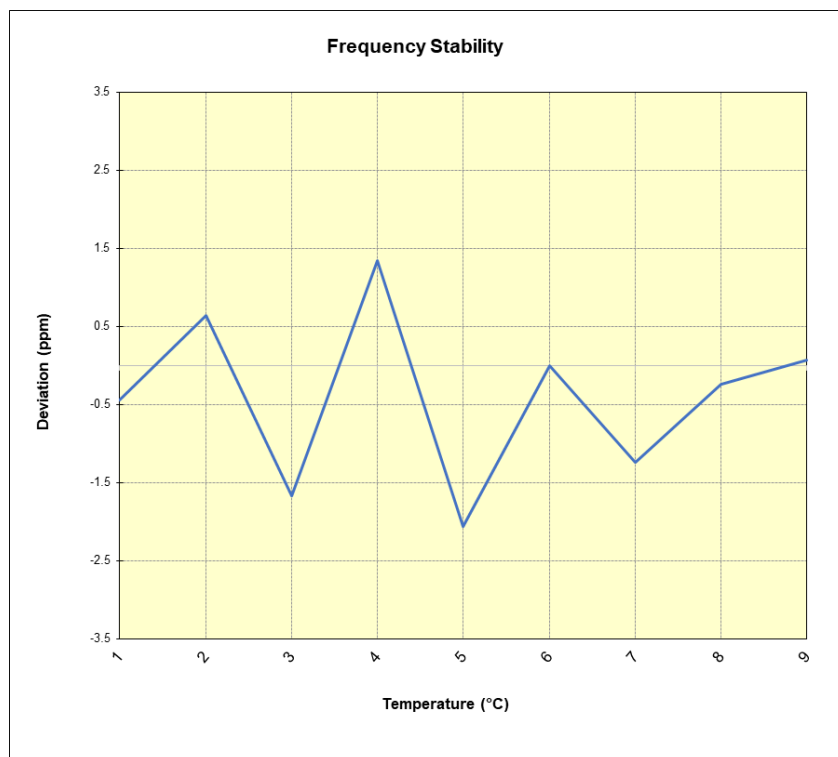
None

FCC ID: A3LSMA576U IC: 649E-SMA576W		PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset		Page 154 of 159

LTE Band 25/2

LTE Band 25/2					
		Operating Frequency (Hz):		1,882,500,000	
		Ref. Voltage (VDC):		4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,882,594,674	-829	-0.0000440
		- 20	1,882,596,710	1,207	0.0000641
		- 10	1,882,592,350	-3,153	-0.0001675
		0	1,882,598,028	2,525	0.0001341
		+ 10	1,882,591,628	-3,875	-0.0002058
		+ 20 (Ref)	1,882,595,503	0	0.0000000
		+ 30	1,882,593,176	-2,327	-0.0001236
		+ 40	1,882,595,044	-459	-0.0000244
		+ 50	1,882,595,622	119	0.0000063
Battery Endpoint	3.648	+ 20	1,882,597,446	1,943	0.0001032

Table 7-50. LTE Band 25/2 Frequency Stability Data



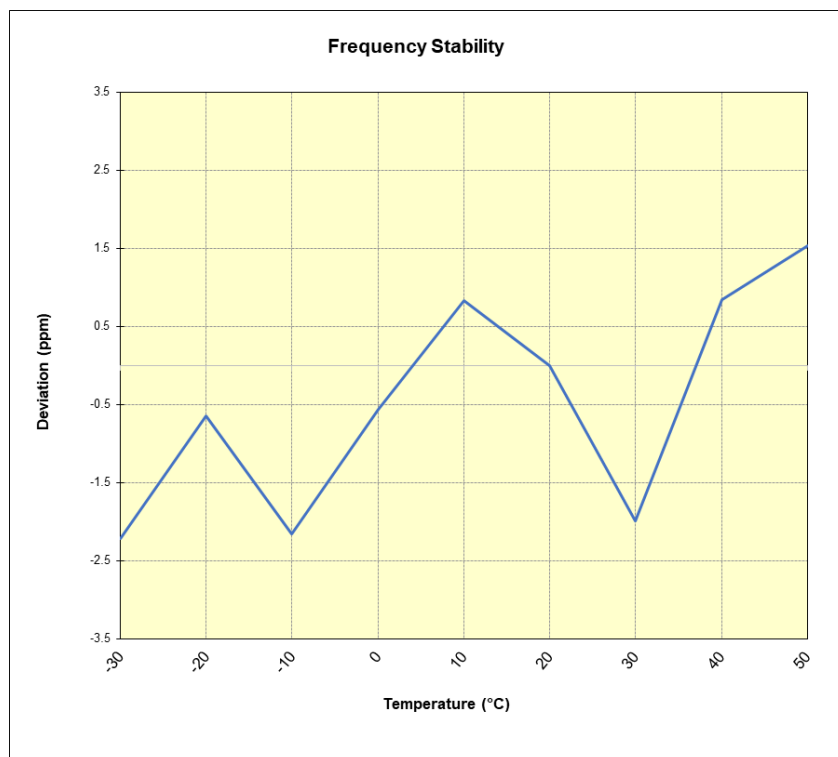
Plot 7-201. LTE Band 25/2 Frequency Stability Chart

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 155 of 159

NR Band n25/2

NR Band n25/2					
		Operating Frequency (Hz):		1,882,500,000	
		Ref. Voltage (VDC):		4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,882,583,697	-4,173	-0.0002217
		- 20	1,882,586,648	-1,222	-0.0000649
		- 10	1,882,583,802	-4,068	-0.0002161
		0	1,882,586,821	-1,049	-0.0000557
		+ 10	1,882,589,441	1,571	0.0000834
		+ 20 (Ref)	1,882,587,870	0	0.0000000
		+ 30	1,882,584,111	-3,759	-0.0001997
		+ 40	1,882,589,464	1,594	0.0000847
		+ 50	1,882,590,767	2,897	0.0001539
Battery Endpoint	3.648	+ 20	1,882,591,283	3,413	0.0001813

Table 7-51 NR Band n25/2 Frequency Stability Data



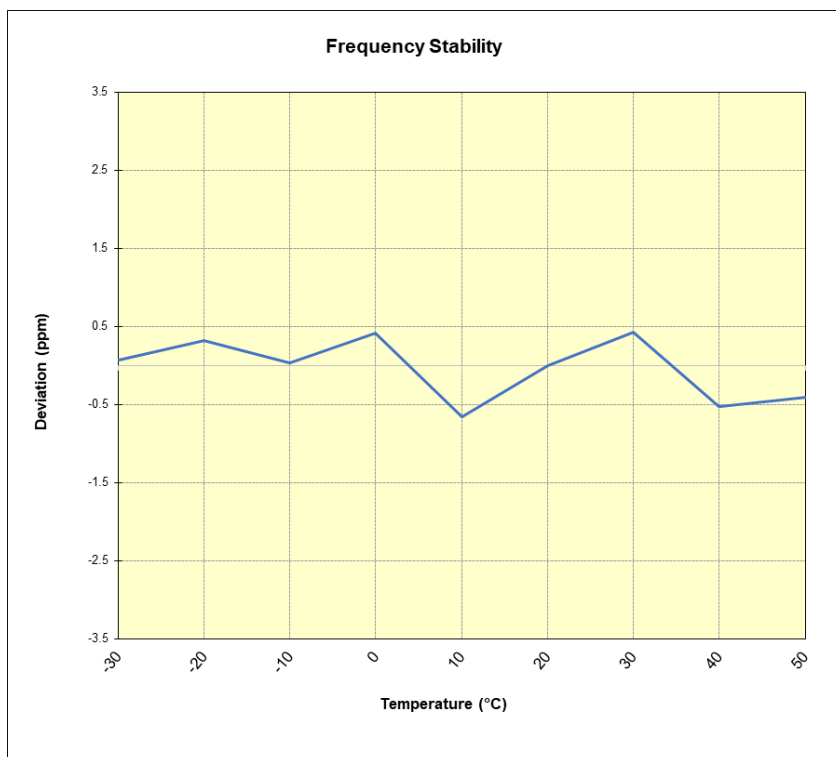
Plot 7-202. NR Band n25/2 Frequency Stability Chart

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 156 of 159

GSM/GPRS PCS

GSM/GPRS PCS					
		Operating Frequency (Hz):		1,880,000,000	
		Ref. Voltage (VDC):		4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,880,000,644	122	0.0000065
		- 20	1,880,001,118	596	0.0000317
		- 10	1,880,000,594	72	0.0000038
		0	1,880,001,306	784	0.0000417
		+ 10	1,879,999,276	-1,246	-0.0000663
		+ 20 (Ref)	1,880,000,522	0	0.0000000
		+ 30	1,880,001,324	802	0.0000427
		+ 40	1,879,999,538	-984	-0.0000523
		+ 50	1,879,999,750	-772	-0.0000411
Battery Endpoint	3.648	+ 20	1,879,999,685	-837	-0.0000445

Table 7-52. GSM/GPRS PCS Frequency Stability Data



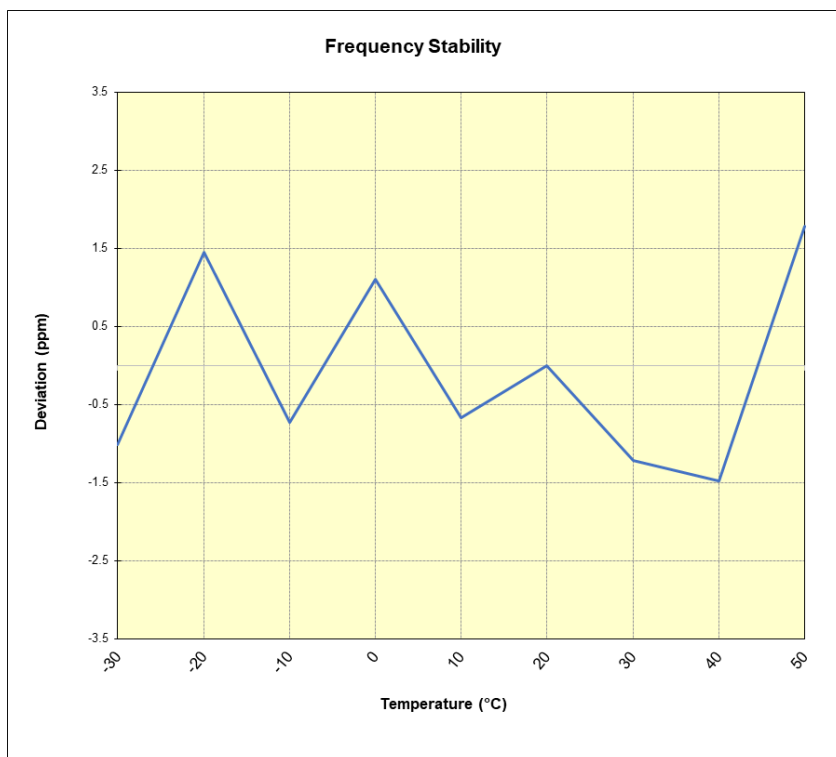
Plot 7-203. GSM/GPRS PCS Frequency Stability Chart

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 157 of 159

WCDMA PCS

WCDMA PCS					
			Operating Frequency (Hz):	1,880,000,000	
			Ref. Voltage (VDC):	4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,879,996,812	-1,908	-0.0001015
		- 20	1,880,001,444	2,724	0.0001449
		- 10	1,879,997,341	-1,379	-0.0000734
		0	1,880,000,789	2,069	0.0001101
		+ 10	1,879,997,466	-1,254	-0.0000667
		+ 20 (Ref)	1,879,998,720	0	0.0000000
		+ 30	1,879,996,436	-2,284	-0.0001215
		+ 40	1,879,995,938	-2,782	-0.0001480
		+ 50	1,880,002,070	3,350	0.0001782
Battery Endpoint	3.648	+ 20	1,879,995,203	-3,517	-0.0001871

Table 7-53. WCDMA PCS Frequency Stability Data



Plot 7-204. WCDMA PCS Frequency Stability Chart

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 158 of 159

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576U** and **IC: 649E-SMA576W** complies with all the requirements of Part 24 of the FCC rules and RSS-133 of ISED rules.

- END OF TEST REPORT -

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 24 RSS-133 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280090-06-R1.A3L	Test Dates: 11/3/2025 - 12/05/2025	EUT Type: Portable Handset	Page 159 of 159