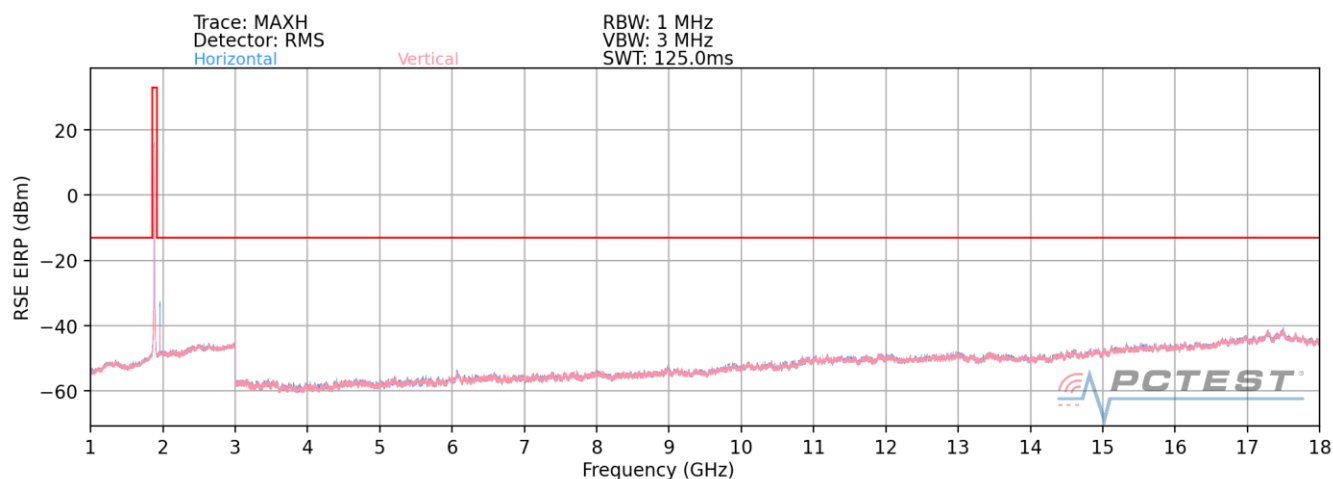


WCDMA PCS



Plot 7-155. Radiated Spurious Plot (WCDMA PCS)

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.80	V	-	-	-76.82	2.51	32.69	-62.56	-13.00	-49.56
5557.20	V	-	-	-77.76	5.28	34.52	-60.73	-13.00	-47.73
7409.60	V	-	-	-78.49	9.08	37.59	-57.67	-13.00	-44.67

Table 7-16. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


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]
3760.00	V	-	-	-77.10	3.46	33.36	-61.90	-13.00	-48.90
5640.00	V	-	-	-77.36	6.00	35.64	-59.62	-13.00	-46.62
7520.00	V	-	-	-78.33	8.69	37.36	-57.90	-13.00	-44.90

Table 7-17. Radiated Spurious Data (WCDMA PCS – Mid Channel)

FCC ID: PY7-95324M	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset		Page 109 of 116

Mode:	WCDMA RMC								
Channel:	9538								
Frequency (MHz):	1907.6								
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]
3815.20	V	-	-	-76.28	2.66	33.38	-61.88	-13.00	-48.88
5722.80	V	-	-	-77.76	5.31	34.55	-60.71	-13.00	-47.71
7630.40	V	-	-	-78.44	9.63	38.19	-57.07	-13.00	-44.07

Table 7-18. Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: PY7-95324M	 <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset	Page 110 of 116	

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. 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.

Test Procedure Used

ANSI/TIA-603-E-2016

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

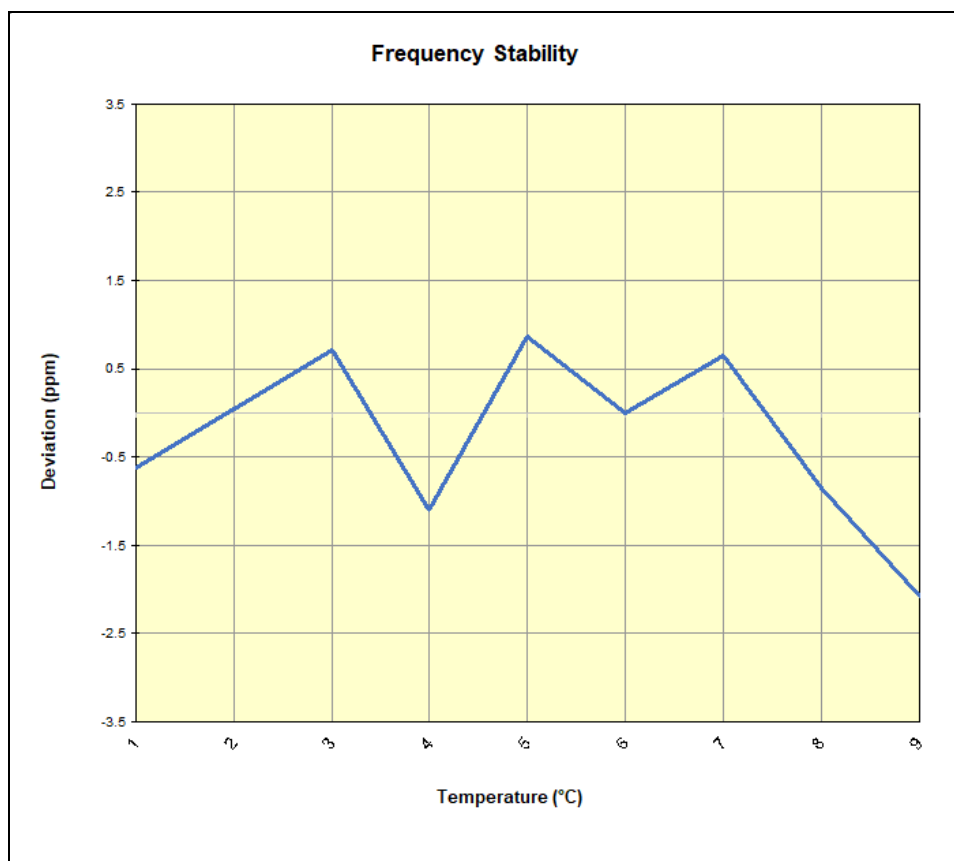
None

FCC ID: PY7-95324M	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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LTE Band 25/2

LTE Band 25/2					
Operating Frequency (Hz):			1,882,500,000		
Ref. Voltage (VDC):			3.86		
Deviation Limit:			± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.86	- 30	1,882,592,345	-1,161	-0.0000617
		- 20	1,882,593,597	91	0.0000048
		- 10	1,882,594,856	1,350	0.0000717
		0	1,882,591,427	-2,080	-0.0001105
		+ 10	1,882,595,149	1,643	0.0000873
		+ 20 (Ref)	1,882,593,507	0	0.0000000
		+ 30	1,882,594,720	1,213	0.0000644
		+ 40	1,882,591,916	-1,591	-0.0000845
		+ 50	1,882,589,597	-3,910	-0.0002077
Battery Endpoint	3.32	+ 20	1,882,590,604	-2,903	-0.0001542

Table 7-19. LTE Band 25/2 Frequency Stability Data



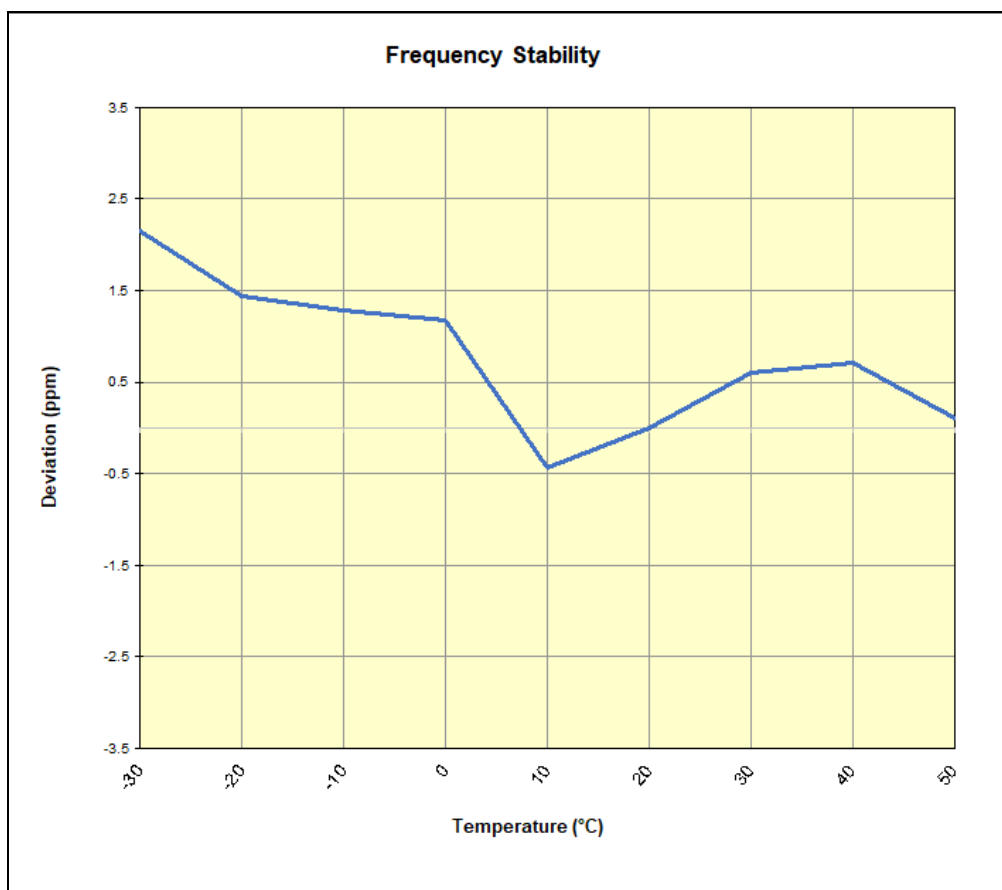
Plot 7-156. LTE Band 25/2 Frequency Stability Chart

FCC ID: PY7-95324M	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset	Page 112 of 116	

NR Band n2

NR Band n2					
Operating Frequency (Hz):			1,880,000,000		
Ref. Voltage (VDC):			3.86		
Deviation Limit:			± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.86	- 30	1,880,084,015	4,034	0.0002146
		- 20	1,880,082,683	2,702	0.0001437
		- 10	1,880,082,410	2,429	0.0001292
		0	1,880,082,207	2,226	0.0001184
		+ 10	1,880,079,158	-822	-0.0000437
		+ 20 (Ref)	1,880,079,981	0	0.0000000
		+ 30	1,880,081,111	1,131	0.0000601
		+ 40	1,880,081,306	1,325	0.0000705
		+ 50	1,880,080,184	203	0.0000108
Battery Endpoint	3.32	+ 20	1,880,078,444	-1,537	-0.0000818

Table 7-20. NR Band n2 Frequency Stability Data



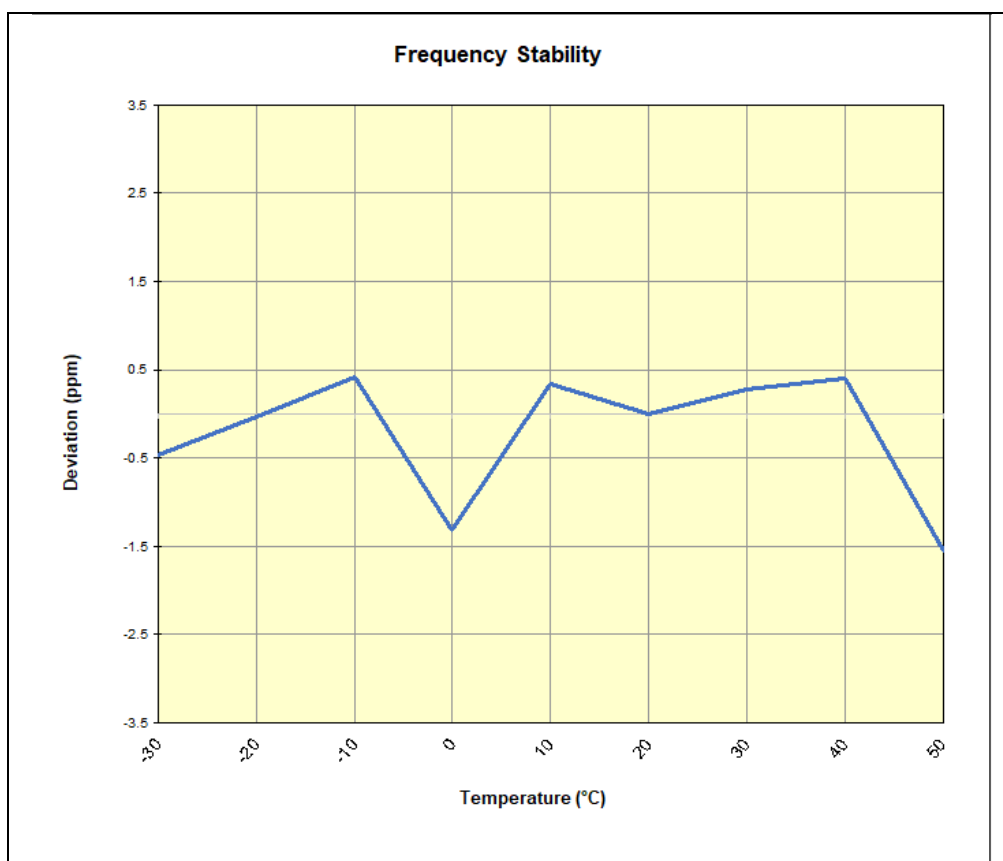
Plot 7-157. NR Band n2 Frequency Stability Chart

FCC ID: PY7-95324M	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset	Page 113 of 116	

GSM/GPRS PCS

GSM/GPRS PCS					
		Operating Frequency (Hz):		1,880,000,000	
		Ref. Voltage (VDC):		3.86	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.86	- 30	1,880,011,995	-879	-0.0000467
		- 20	1,880,012,821	-52	-0.0000028
		- 10	1,880,013,649	775	0.0000412
		0	1,880,010,394	-2,480	-0.0001319
		+ 10	1,880,013,499	626	0.0000333
		+ 20 (Ref)	1,880,012,873	0	0.0000000
		+ 30	1,880,013,397	524	0.0000279
		+ 40	1,880,013,626	753	0.0000400
		+ 50	1,880,009,957	-2,916	-0.0001551
Battery Endpoint	3.32	+ 20	1,880,012,564	-309	-0.0000165

Table 7-21. GSM/GPRS PCS Frequency Stability Data



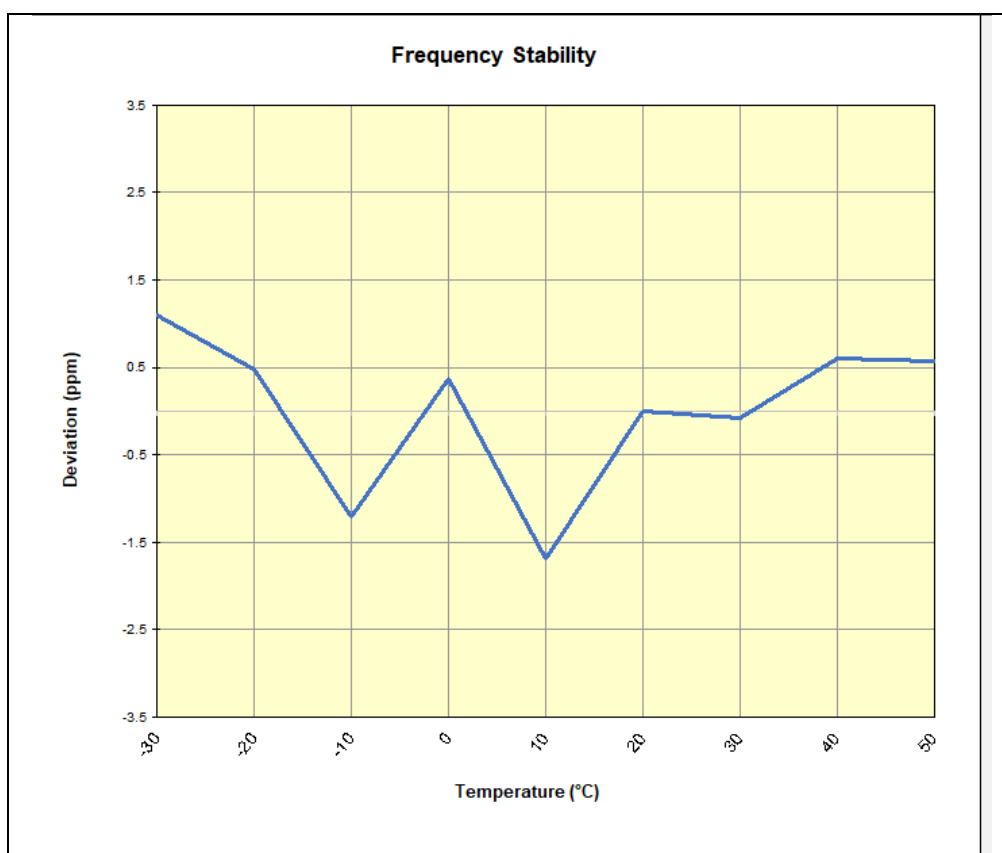
Plot 7-158. GSM/GPRS PCS Frequency Stability Chart

FCC ID: PY7-95324M	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset	Page 114 of 116	

WCDMA PCS

WCDMA PCS					
		Operating Frequency (Hz):		1,880,000,000	
		Ref. Voltage (VDC):		3.86	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.86	- 30	1,880,011,418	2,052	0.0001091
		- 20	1,880,010,266	899	0.0000478
		- 10	1,880,007,097	-2,270	-0.0001207
		0	1,880,010,073	706	0.0000376
		+ 10	1,880,006,202	-3,164	-0.0001683
		+ 20 (Ref)	1,880,009,367	0	0.0000000
		+ 30	1,880,009,227	-139	-0.0000074
		+ 40	1,880,010,488	1,121	0.0000596
		+ 50	1,880,010,444	1,077	0.0000573
Battery Endpoint	3.32	+ 20	1,880,008,989	-378	-0.0000201

Table 7-22. WCDMA PCS Frequency Stability Data




Plot 7-159. WCDMA PCS Frequency Stability Chart

FCC ID: PY7-95324M	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset	Page 115 of 116	

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the SONY **Portable Handset** **FCC ID: PY7-95324M** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: PY7-95324M	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N: 1M2108040087-03-R1.PY7	Test Dates: 8/2 – 9/23/2021	EUT Type: Portable Handset		Page 116 of 116