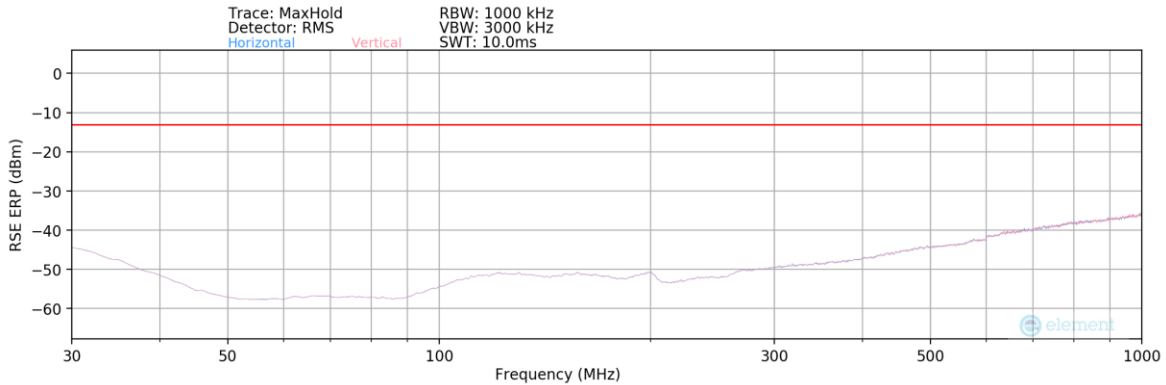
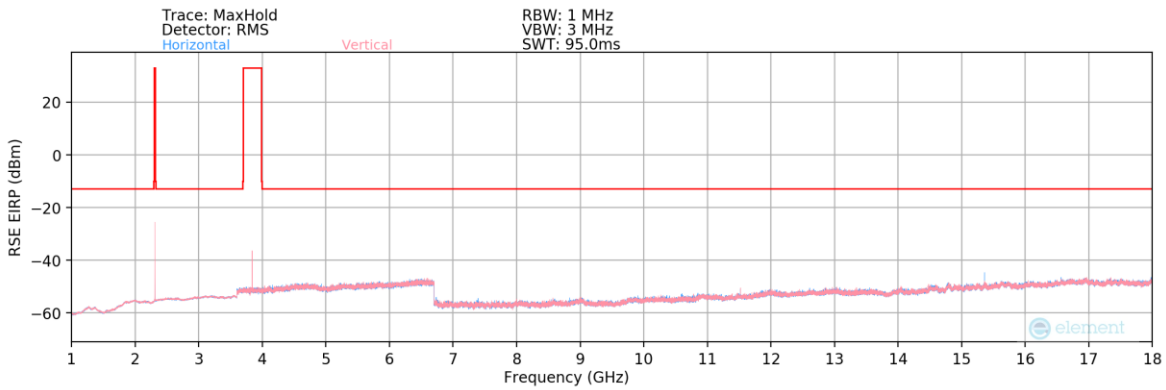




EN-DC: NR Band n77 (C-band) Main1 – LTE Band 30 Main2



Plot 7-401. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n77 (C-band) Main1 – LTE Band 30 Main2)



Plot 7-402. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n77 (C-band) Main1 – LTE Band 30 Main2)

Bandwidth (MHz):	100 / 10
Frequency (MHz):	3500.01 / 2310
RB / Offset:	1 / 136 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 30

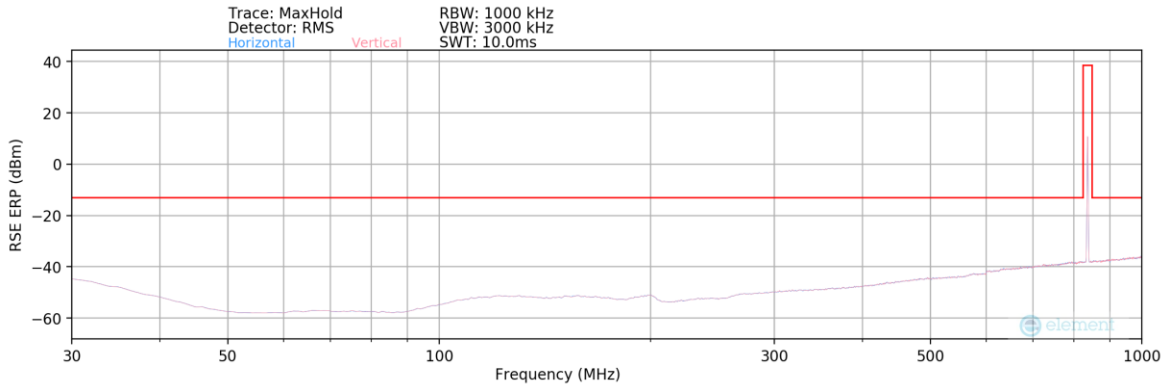
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
750.00	H	-	-	-85.18	29.40	51.22	-46.19	-13.00	-33.19
11550.00	V	-	-	-80.20	11.96	38.76	-56.49	-13.00	-43.49
15360.00	H	131	302	-72.62	16.57	50.95	-44.30	-13.00	-31.30
16140.00	H	-	-	-80.60	17.34	43.74	-51.52	-13.00	-38.52
17670.00	H	-	-	-79.64	17.37	44.73	-60.07	-13.00	-47.07
17700.00	H	-	-	-79.52	17.40	44.88	-59.92	-13.00	-46.92

Table 7-73. Radiated Spurious Data (EN-DC: NR Band n77 (C-band) Main1 – LTE Band 30 Main2)

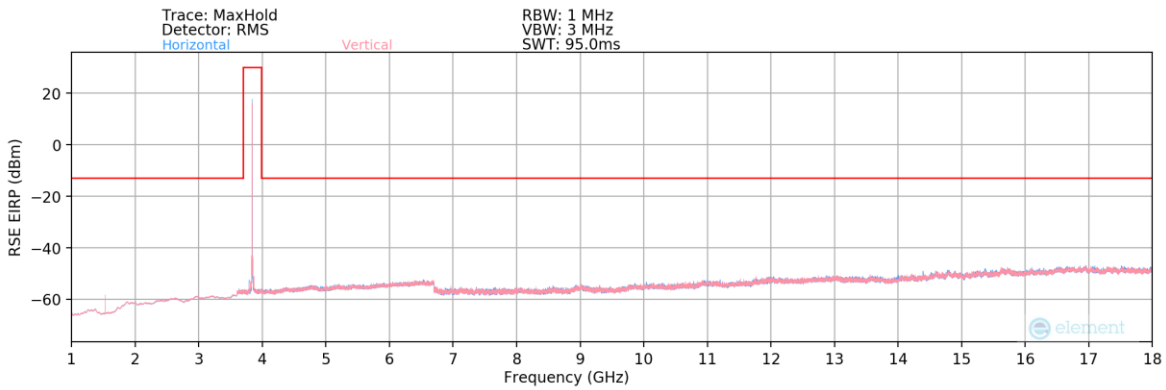
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-05-R1.PY7	Test Dates: 02/21/2023 - 4/12/2023	EUT Type: Portable Handset	Page 250 of 255



EN-DC: NR Band n77 (C-band) Sub-UHB – LTE Band 5 Sub



Plot 7-403. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n77 (C-band) Sub-UHB – LTE Band 5 Sub)



Plot 7-404. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n77 (C-band) Sub-UHB – LTE Band 5 Sub)

Bandwidth (MHz):	100 / 10
Frequency (MHz):	3500.01 / 836.5
RB / Offset:	1 / 136 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
494.00	V	-	-	-90.37	25.91	42.54	-54.87	-13.00	-41.87
1525.84	V	197	9	-39.54	-4.29	63.17	-32.09	-13.00	-19.09
2167.00	V	-	-	-77.45	-0.33	29.22	-66.04	-13.00	-53.04
4676.50	V	-	-	-78.79	4.06	32.27	-72.53	-13.00	-59.53
15845.00	V	-	-	-82.97	16.88	40.91	-63.89	-13.00	-50.89

Table 7-74. Radiated Spurious Data (EN-DC: NR Band n77 (C-band) Sub-UHB – LTE Band 5 Sub)

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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 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.

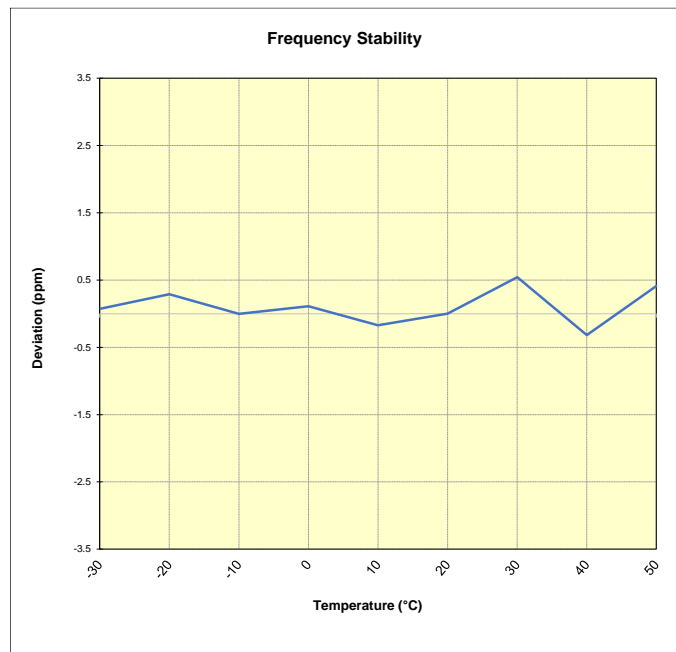
Test Notes

None.

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NR Band n77 DoD					
		Operating Frequency (Hz):		3,550,000,000	
		Ref. Voltage (VDC):		4.28	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	3,499,996,017	246	0.0000070
		- 20	3,499,996,779	1,008	0.0000288
		- 10	3,499,995,758	-13	-0.0000004
		0	3,499,996,157	386	0.0000110
		+ 10	3,499,995,168	-603	-0.0000172
		+ 20 (Ref)	3,499,995,771	0	0.0000000
		+ 30	3,499,997,663	1,892	0.0000541
		+ 40	3,499,994,659	-1,112	-0.0000318
Battery Endpoint	3.69	+ 20	3,499,995,837	66	0.0000019

Table 7-75. NR Band n77 (DoD) Frequency Stability Data

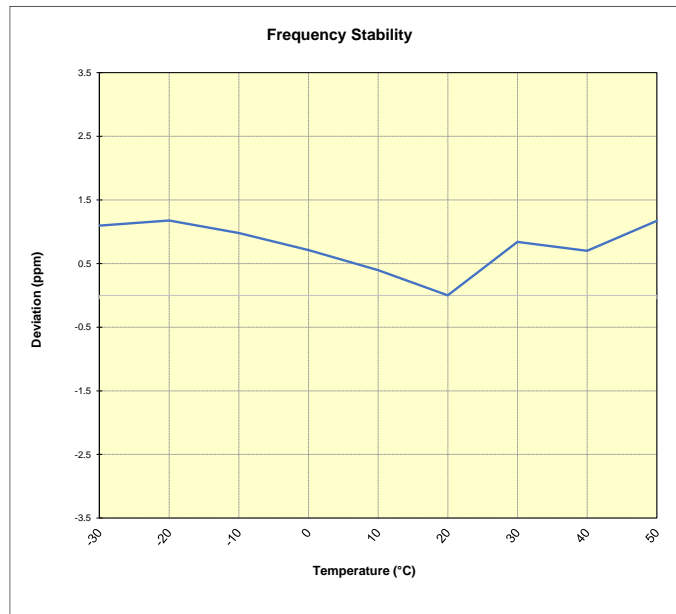


Plot 7-405. NR Band n77 (DoD) Frequency Stability Chart

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NR Band n77 C-Band					
Operating Frequency (Hz):		3,840,000,000			
Ref. Voltage (VDC):		4.28			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	3,839,986,612	4,207	0.0001096
		- 20	3,839,986,920	4,515	0.0001176
		- 10	3,839,986,161	3,756	0.0000978
		0	3,839,985,142	2,737	0.0000713
		+ 10	3,839,983,931	1,526	0.0000397
		+ 20 (Ref)	3,839,982,405	0	0.0000000
		+ 30	3,839,985,625	3,220	0.0000838
		+ 40	3,839,985,092	2,687	0.0000700
Battery Endpoint	3.69	+ 20	3,839,980,938	-1,467	-0.0000382

Table 7-76. NR Band n77 (C-band) Frequency Stability Data



Plot 7-406. NR Band n77 (C-band) Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7-84558E** complies with all the requirements of Part 27 of the FCC rules.

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