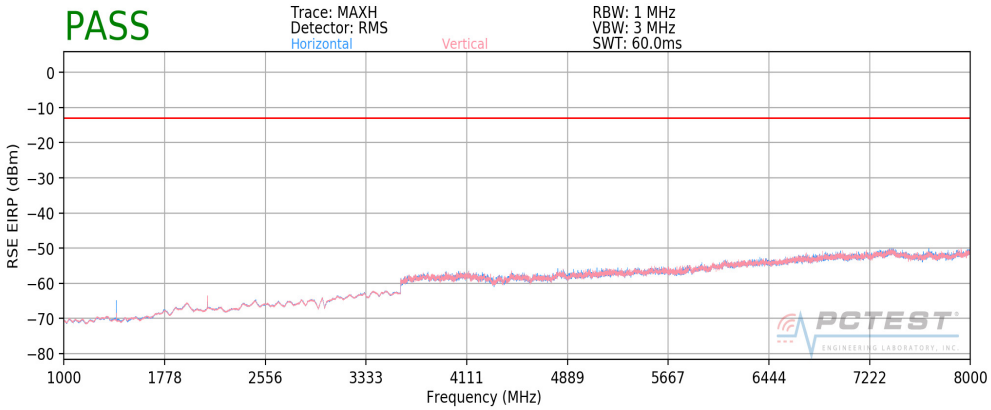
Band 12



Plot 7-191. Radiated Spurious Plot above 1GHz (Band 12)

OPERATING FREQUENCY:	704.00	MHz
CHANNEL:	23060	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	130	208	-78.12	8.00	-70.11	-57.1
2112.00	H	260	187	-78.69	8.89	-69.79	-56.8
2816.00	H	-	-	-80.33	10.10	-70.23	-57.2

Table 7-11. Radiated Spurious Data (Band 12 – Low Channel)

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OPERATING FREQUENCY:	707.50	MHz
CHANNEL:	23095	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	181	194	-78.18	8.09	-70.09	-57.1
2122.50	H	272	109	-77.13	8.88	-68.25	-55.2
2830.00	H	-	-	-79.26	10.13	-69.13	-56.1

Table 7-12. Radiated Spurious Data (Band 12 – Mid Channel)

OPERATING FREQUENCY:	711.00	MHz
CHANNEL:	23130	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	140	194	-77.96	8.17	-69.79	-56.8
2133.00	H	172	131	-77.26	8.87	-68.39	-55.4
2844.00	H	-	-	-78.26	10.16	-68.09	-55.1

Table 7-13. Radiated Spurious Data (Band 12 – High Channel)

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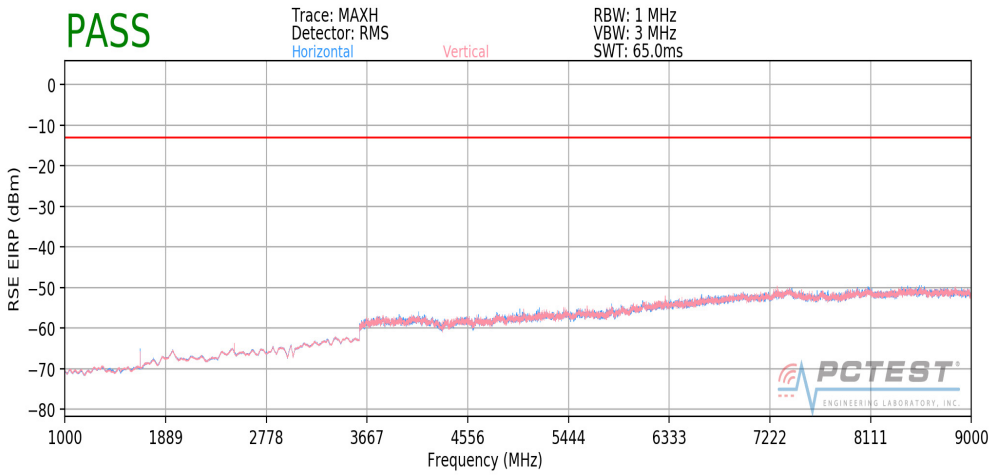
Band 5



Plot 7-192. Radiated Spurious Plot above 1GHz (Band 5)

OPERATING FREQUENCY:	825.50	MHz
CHANNEL:	20415	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	3.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1651.00	H	125	113	-76.69	9.01	-67.68	-54.7
2476.50	H	140	180	-74.74	9.12	-65.62	-52.6
3302.00	H	-	-	-76.35	9.37	-66.99	-54.0

Table 7-14. Radiated Spurious Data (Band 5 – Low Channel)

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OPERATING FREQUENCY:	836.50	MHz
CHANNEL:	20525	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	3.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	204	133	-75.65	8.85	-66.80	-53.8
2509.50	H	130	178	-76.52	9.17	-67.35	-54.4
3346.00	H	-	-	-77.25	9.36	-67.89	-54.9

Table 7-15. Radiated Spurious Data (Band 5 – Mid Channel)

OPERATING FREQUENCY:	847.50	MHz
CHANNEL:	20635	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	3.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1695.00	H	227	49	-73.88	8.69	-65.19	-52.2
2542.50	H	133	166	-77.81	9.27	-68.54	-55.5
3390.00	H	-	-	-76.45	9.45	-67.00	-54.0

Table 7-16. Radiated Spurious Data (Band 5 – High Channel)

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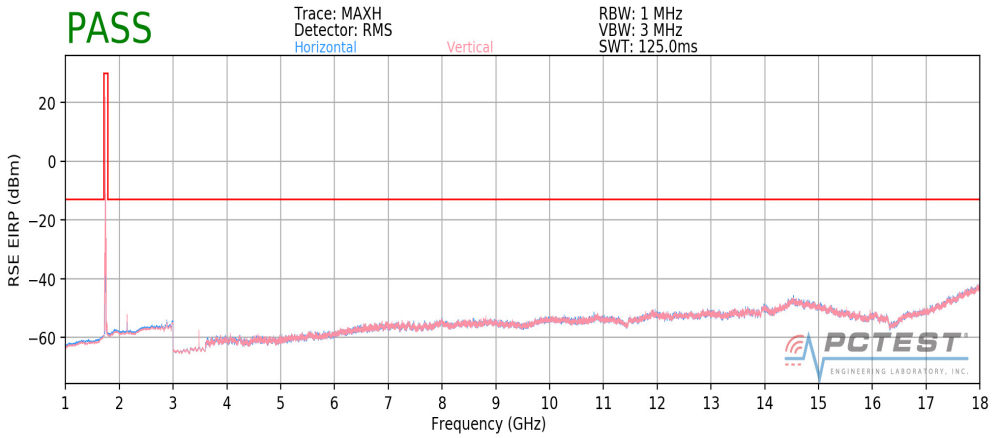
Band 4/66



Plot 7-193. Radiated Spurious Plot above 1GHz (Band 4/66)

OPERATING FREQUENCY:	1717.50	MHz
CHANNEL:	132047	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	15.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3435.00	V	149	288	-64.85	9.54	-55.32	-42.3
5152.50	V	-	-	-67.68	10.79	-56.89	-43.9

Table 7-17. Radiated Spurious Data (Band 4/66 – Low Channel)

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OPERATING FREQUENCY: 1745.00 MHz
CHANNEL: 132322
MODULATION SIGNAL: QPSK
BANDWIDTH: 15.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	177	301	-65.75	9.65	-56.11	-43.1
5235.00	V	-	-	-68.02	10.93	-57.10	-44.1

Table 7-18. Radiated Spurious Data (Band 4/66 – Mid Channel)

OPERATING FREQUENCY: 1772.50 MHz
CHANNEL: 132597
MODULATION SIGNAL: QPSK
BANDWIDTH: 15.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3545.00	V	200	299	-67.00	9.70	-57.30	-44.3

Table 7-19. Radiated Spurious Data (Band 4/66 – High Channel)

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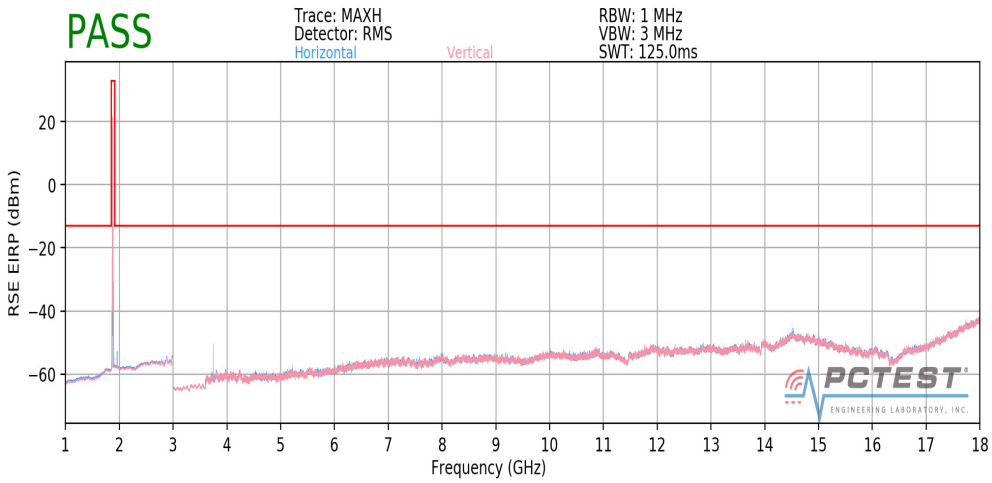
Band 2



Plot 7-194. Radiated Spurious Plot above 1GHz (Band 2)

OPERATING FREQUENCY:	1855.00	MHz
CHANNEL:	18650	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3710.00	H	104	145	-58.82	9.70	-49.12	-36.1
5565.00	H	-	-	-68.03	11.00	-57.03	-44.0

Table 7-20. Radiated Spurious Data (Band 2 – Low Channel)

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OPERATING FREQUENCY:	1880.00	MHz
CHANNEL:	18900	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	100	140	-60.93	9.50	-51.43	-38.4
5640.00	H	-	-	-68.25	11.16	-57.09	-44.1

Table 7-21. Radiated Spurious Data (Band 2 – Mid Channel)

OPERATING FREQUENCY:	1905.00	MHz
CHANNEL:	19150	
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	115	141	-56.37	9.32	-47.05	-34.0
5715.00	H	-	-	-68.54	11.32	-57.22	-44.2

Table 7-22. Radiated Spurious Data (Band 2 – High Channel)

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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/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.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

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Band 71 Frequency Stability Measurements

OPERATING FREQUENCY: 680,500,000 Hz

CHANNEL: 133297

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	680,499,736	-264	-0.0000388
100 %		- 30	680,499,883	-117	-0.0000172
100 %		- 20	680,499,893	-107	-0.0000157
100 %		- 10	680,499,925	-75	-0.0000110
100 %		0	680,500,007	7	0.0000010
100 %		+ 10	680,500,417	417	0.0000613
100 %		+ 20	680,500,054	54	0.0000079
100 %		+ 30	680,499,880	-120	-0.0000176
100 %		+ 40	680,500,178	178	0.0000262
100 %		+ 50	680,499,837	-163	-0.0000240
BATT. ENDPOINT	3.45	+ 20	680,500,038	38	0.0000056

Table 7-23. Frequency Stability Data (Band 71)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 71 Frequency Stability Measurements

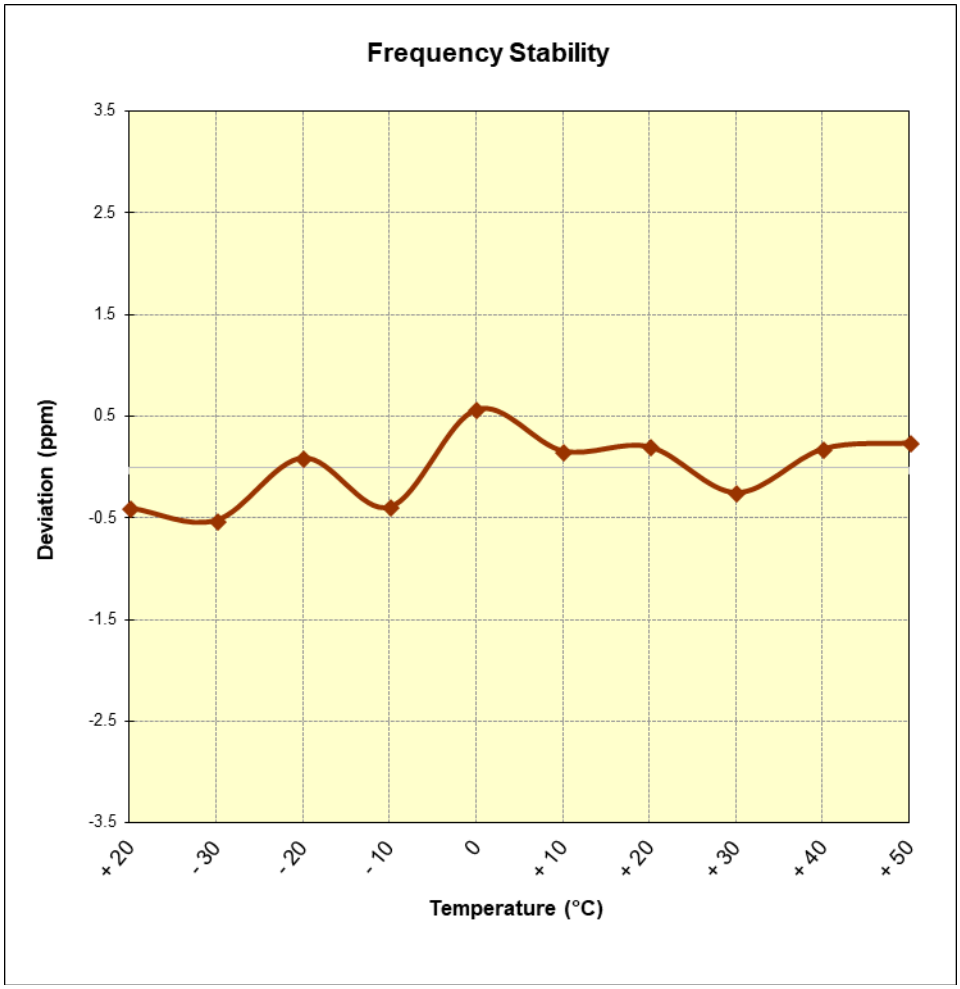

Figure 7-8. Frequency Stability Graph (Band 71)

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Band 12 Frequency Stability Measurements

OPERATING FREQUENCY: 707,500,000 Hz

CHANNEL: 23790

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	707,499,715	-285	-0.0000403
100 %		- 30	707,499,629	-371	-0.0000524
100 %		- 20	707,500,064	64	0.0000090
100 %		- 10	707,499,721	-279	-0.0000394
100 %		0	707,500,401	401	0.0000567
100 %		+ 10	707,500,113	113	0.0000160
100 %		+ 20	707,500,141	141	0.0000199
100 %		+ 30	707,499,822	-178	-0.0000252
100 %		+ 40	707,500,127	127	0.0000180
100 %		+ 50	707,500,169	169	0.0000239
BATT. ENDPOINT	3.45	+ 20	707,499,989	-11	-0.0000016

Table 7-24. Frequency Stability Data (Band 12)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 12 Frequency Stability Measurements

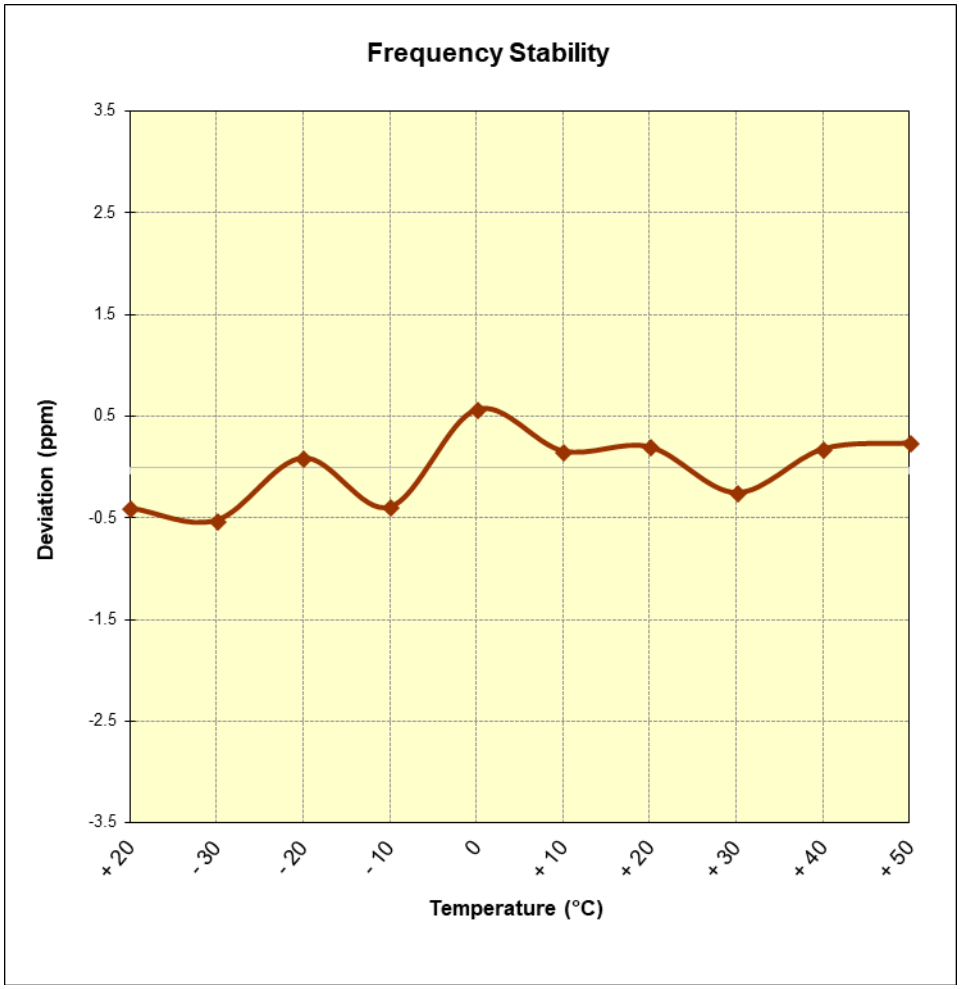

Figure 7-9. Frequency Stability Graph (Band 12)

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Band 5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz

CHANNEL: 20525

REFERENCE VOLTAGE: 3.85 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	836,499,964	-36	-0.0000043
100 %		- 30	836,499,990	-10	-0.0000012
100 %		- 20	836,500,167	167	0.0000200
100 %		- 10	836,499,861	-139	-0.0000166
100 %		0	836,499,937	-63	-0.0000075
100 %		+ 10	836,500,452	452	0.0000540
100 %		+ 20	836,499,884	-116	-0.0000139
100 %		+ 30	836,500,092	92	0.0000110
100 %		+ 40	836,499,588	-412	-0.0000493
100 %		+ 50	836,500,109	109	0.0000130
BATT. ENDPOINT	3.45	+ 20	836,500,120	120	0.0000143

Table 7-25. Frequency Stability Data (Band 5)

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Band 5 Frequency Stability Measurements

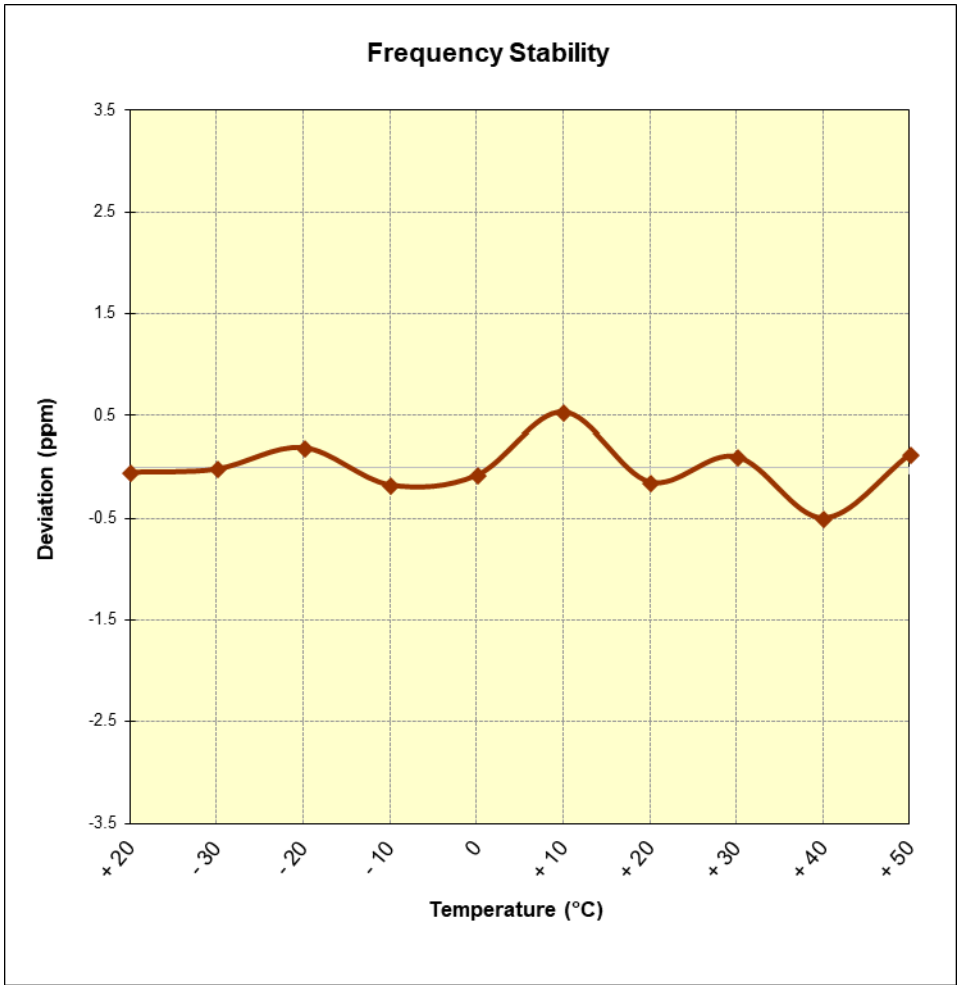

Figure 7-10. Frequency Stability Graph (Band 5)

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Band 4/66 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz

CHANNEL: 132322

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	1,745,000,042	42	0.0000024
100 %		- 30	1,744,999,914	-86	-0.0000049
100 %		- 20	1,745,000,082	82	0.0000047
100 %		- 10	1,745,000,051	51	0.0000029
100 %		0	1,744,999,906	-94	-0.0000054
100 %		+ 10	1,745,000,187	187	0.0000107
100 %		+ 20	1,744,999,905	-95	-0.0000054
100 %		+ 30	1,744,999,961	-39	-0.0000022
100 %		+ 40	1,745,000,194	194	0.0000111
100 %		+ 50	1,745,000,056	56	0.0000032
BATT. ENDPOINT	3.45	+ 20	1,745,000,204	204	0.0000117

Table 7-26. Frequency Stability Data (Band 4/66)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 4/66 Frequency Stability Measurements

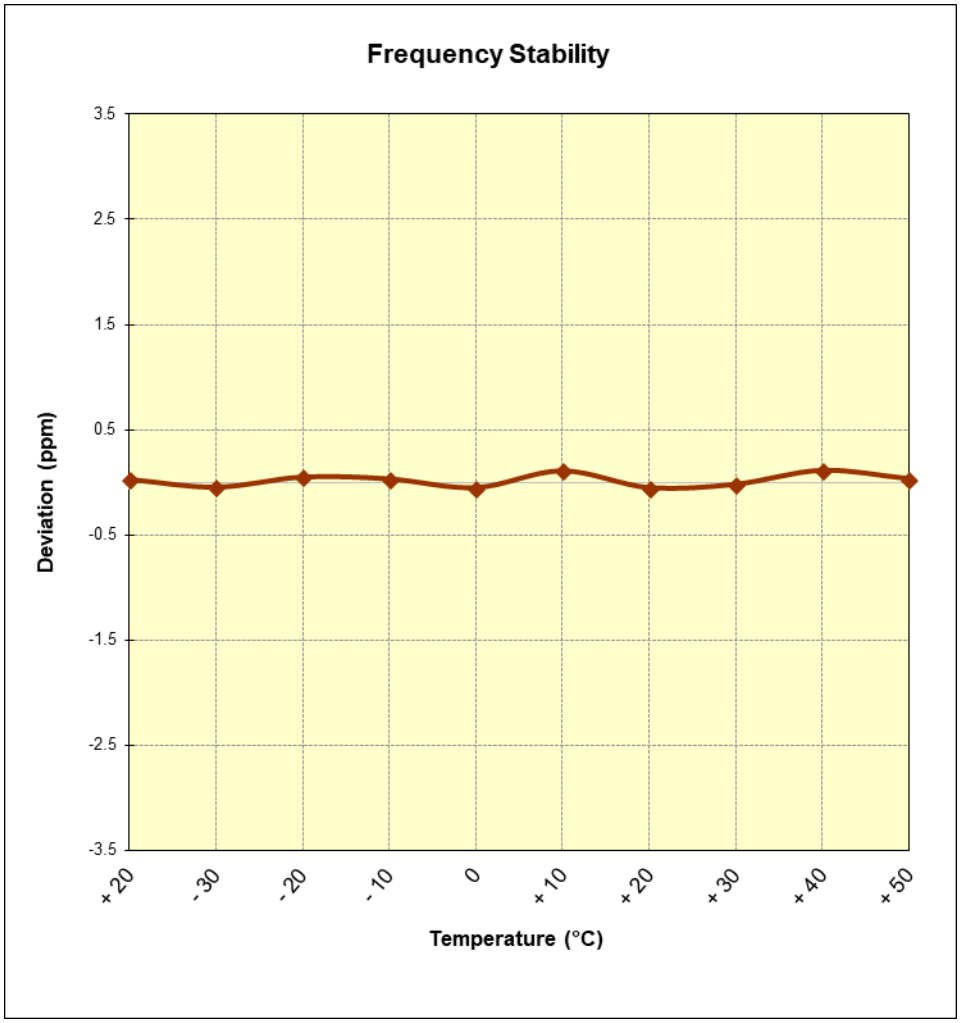

Figure 7-11. Frequency Stability Graph (Band 4/66)

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Band 2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 18900

REFERENCE VOLTAGE: 3.85 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	1,879,999,816	-184	-0.0000098
100 %		- 30	1,879,999,982	-18	-0.0000010
100 %		- 20	1,879,999,900	-100	-0.0000053
100 %		- 10	1,880,000,170	170	0.0000090
100 %		0	1,880,000,176	176	0.0000094
100 %		+ 10	1,879,999,994	-6	-0.0000003
100 %		+ 20	1,880,000,337	337	0.0000179
100 %		+ 30	1,880,000,174	174	0.0000093
100 %		+ 40	1,880,000,238	238	0.0000127
100 %		+ 50	1,880,000,242	242	0.0000129
BATT. ENDPOINT	3.45	+ 20	1,880,000,307	307	0.0000163

Table 7-27. Frequency Stability Data (Band 2)

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Band 2 Frequency Stability Measurements

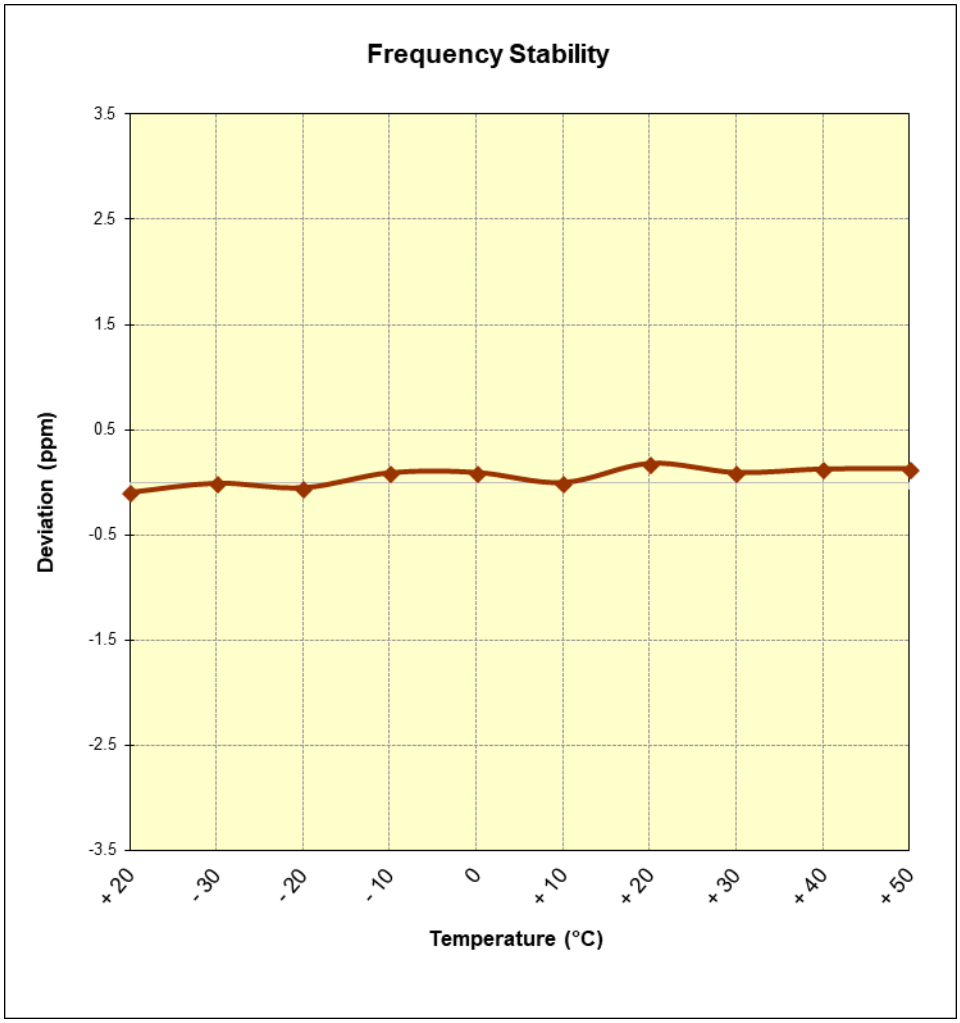

Figure 7-12. Frequency Stability Graph (Band 2)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFL211BL** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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