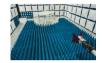


#### **PCTEST**

18855 Adams Court, Morgan Hill, CA 95037 USA Tel. 410.290.6652 / Fax 410.290.6654 http://www.pctest.com



# MEASUREMENT REPORT FCC Part 90

**Applicant Name:** 

Apple Inc.

One Apple Park Way Cupertino, CA 95014

LL 's LOS

**United States** 

**Date of Testing:** 

05/01/2020 - 09/01/2020

Test Site/Location:

PCTEST Morgan Hill, CA, USA

Test Report Serial No.: 1C2004270026-04.BCG

FCC ID: BCG-A2356

APPLICANT: Apple Inc.

Application Type: Certification
Model: A2356
EUT Type: Watch

FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)

**FCC Rule Part:** §2.1049, §90(S)

Test Procedure(s): ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01 v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.







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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [mW]	Max. Power [dBm]	Emission Designator
	10 MU-	QPSK	819.0	Conducted	295.121	24.70	9M03G7W
LTE Band 26	10 MHz	16QAM	819.0	Conducted	244.906	23.89	5M11D7W
	5 MHz	QPSK	816.5 - 821.5	Conducted	304.789	24.84	4M52G7W
		16QAM	816.5 - 821.5	Conducted	243.220	23.86	4M51D7W
	3 MHz	QPSK	815.5 - 822.5	Conducted	301.995	24.80	2M71G7W
		16QAM	815.5 - 822.5	Conducted	242.661	23.85	2M70D7W
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	306.196	24.86	1M08G7W
	1.4 IVIMZ	16QAM	814.7 - 823.3	Conducted	242.661	23.85	1M09D7W

**EUT Overview** 

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#### 1.0 INTRODUCTION

# 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

#### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

# 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISED.

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# 2.0 PRODUCT INFORMATION

# 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2356**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Parts 90(S).

Test Device Serial No.: DVPCR025Q7TX, DVPCF00SPWFJ

## 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, HDR4, HDR8, LE), NFC

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

	Antenna FCM				
Simultaneous	WLAN	Bluetooth	LTE/WCDMA		
Tx Config	802.11 b/g/n	BDR, EDR, HDR4/8, LE	Mid band/ High band		
Config 1	×	✓	✓		
Config 2	✓	×	✓		

**Table 2-1. Simultaneous Transmission Configuration** 

✓= Support; × = NOT Support

All the above simultaneous configurations have been tested and the worst case configuration was found to be configuration 1 (WLAN and LTE). These results can be found in the RF WLAN and RF LTE FCC reports.

### 2.3 Antenna Description

Following antenna was used for the testing.

Frequency [MHz]	Antenna Gain (dBi)
814-849	-25.9

Table 2-2. Highest Antenna Gain

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### 2.4 Test Support Equipment

Apple MacBook	Model:	A1398	S/N:	C2QKP008F6F3
w/AC/DC Adapter	Model:	A1435	S/N:	N/A
Apple USB Cable	Model:	Kanzi	S/N:	32530F
w/ Charging Dock	Model:	FAPS73	S/N:	17481001320
w/ Dock	Model:	X241	S/N:	CYV7614004
USB Lightning Cable	Model:	N/A	S/N:	N/A
w/ AC Adapter	Model:	A1385	S/N:	N/A
Wireless Charging Pad (WCP)	Model:	EVT	S/N:	DLC9223004YLNWL43
1				
X1456 Test Pathfinder Sinsa Board	Model:	920-06235-01	S/N:	N/A
SiP Cradle	Model:	P1 X1819B	S/N:	N/A
DC Power Supply	Model:	KPS3010D	S/N:	N/A
	w/AC/DC Adapter  Apple USB Cable w/ Charging Dock w/ Dock  USB Lightning Cable w/ AC Adapter  Wireless Charging Pad (WCP)  X1456 Test Pathfinder Sinsa Board SiP Cradle	w/AC/DC Adapter  Apple USB Cable W/ Charging Dock Model: W/ Dock  USB Lightning Cable W/ AC Adapter  Model: Wireless Charging Pad (WCP)  Model:  X1456 Test Pathfinder Sinsa Board SiP Cradle  Model: Model:	w/AC/DC Adapter  Model: A1435  Apple USB Cable  W/ Charging Dock  Model: FAPS73  W/ Dock  Model: X241  USB Lightning Cable  W/ AC Adapter  Model: N/A  W/ AC Adapter  Model: EVT  X1456 Test Pathfinder Sinsa Board  SiP Cradle  Model: P1 X1819B	w/AC/DC AdapterModel:A1435S/N:Apple USB CableModel:KanziS/N:w/ Charging DockModel:FAPS73S/N:w/ DockModel:X241S/N:USB Lightning CableModel:N/AS/N:w/ AC AdapterModel:A1385S/N:Wireless Charging Pad (WCP)Model:EVTS/N:X1456 Test Pathfinder Sinsa BoardModel:920-06235-01S/N:SiP CradleModel:P1 X1819BS/N:

Table 2-3. Test Support Equipment List

# 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The worst case configuration was investigated for various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

This device only supports 27RBs or less for 16-QAM uplink.

### 2.6 Software and Firmware

The test was conducted with firmware version wOS 7.0 installed on the EUT.

### 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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#### 3.0 DESCRIPTION OF TESTS

#### 3.1 Evaluation Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI C63.26-2015/TIA-603-E-2016) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

# 3.2 Radiated Power and Radiated Spurious Emissions §2.1053, §90.635, §90(S)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168 D01 v03r01.

Per the guidance of ANSI C63.26-2015/TIA-603-E-2016, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_{d [dBm]} = P_{g [dBm]} - cable loss [dB] + antenna gain [dBd/dBi]$$

Where,  $P_d$  is the dipole equivalent power,  $P_g$  is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to  $P_g$  [dBm] – cable loss [dB].

The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10 log10(Power [Watts]) specified in 90(S).

For fundamental radiated power measurements, the guidance of KDB 971168 D01 v03r01 is used to record the EUT power level that is subsequently matched via the aforementioned substitution method given in ANSI C63.26-2015/TIA-603-E-2016.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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#### MEASUREMENT UNCERTAINTY 4.0

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.30
Radiated Disturbance (<1GHz)	4.15
Radiated Disturbance (>1GHz)	4.59
Radiated Disturbance (>18GHz)	4.96

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#### TEST EQUIPMENT CALIBRATION DATA 5.0

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/4/2020	Annual	3/4/2021	MY49430244
ESPEC	SU-241	Tabletop Temperature Chamber	9/3/2019	Annual	9/3/2020	92009574
ETS-Lindgren	3142E-PA	Pre-Amplifier (30MHz - 6GHz)	9/19/2019	Annual	9/19/2020	213236
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	1/6/2020	Annual	1/6/2021	224569
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/21/2020	Annual	4/21/2021	205956
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/2/2020	Annual	3/2/2021	101619
Rohde & Schwarz	ESW26	EMI Test Receiver	6/1/2020	Annual	6/1/2021	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	9/13/2019	Annual	9/13/2020	101570
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/16/2019	Annual	11/16/2020	164715
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/16/2020	Annual	4/16/2021	166869
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	11/14/2019	Annual	11/14/2020	101057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	3/12/2020	Annual	3/12/2021	100546

Table 5-1. Test Equipment List

#### Notes:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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# 6.0 SAMPLE CALCULATIONS

### **Emission Designator**

#### **QPSK Modulation**

Emission Designator = 8M62G7W

LTE BW = 8.62 MHz G = Phase Modulation 7 = Quantized/Digital Info W = Combination of Any

#### **16QAM Modulation**

Emission Designator = 8M45D7W

LTE BW = 8.45 MHz
D = Amplitude/Angle Modulated
7 = Quantized/Digital Info
W = Combination of Any

### **Spurious Radiated Emission – LTE Band**

Example: Middle Channel LTE Mode 2<sup>nd</sup> Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80).

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# 7.0 TEST RESULTS

# 7.1 Summary

Company Name: <u>Apple Inc.</u>

FCC ID: BCG-A2356

FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)

Mode(s): <u>LTE</u>

Band: Band 26

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A		N/A	Section 7.2
2.1051 90(S).691(a)	Conducted Band Edge / Spurious Emissions	> 43 + 10 log <sub>10</sub> (P[Watts]) for all out-of-band emissions except > 50 + 10 log10 (P[Watts]) at Band Edge and for all out-of- band emissions within 37.5kHz of Block Edge	CONDUCTED	PASS	Sections 7.3, 7.4
2.1046 90.635	Conducted Power	< 100 Watts		PASS	Section 7.5
2.1053 90(S).691(a)	Radiated Spurious Emissions	> 43 + 10 log <sub>10</sub> (P[Watts]) for all out-of-band emissions except > 50 + 10 log <sub>10</sub> (P[Watts]) at Band Edge and for all out-of- band emissions within 37.5kHz of Block Edge	RADIATED	PASS	Section 7.6
2.1055 90.213	Frequency Stability	< 2.5 ppm	CONDUCTED	PASS	Section 7.7

**Table 7-1. Summary of Test Results** 

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in Section 7.0 were taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "2G/3G Automation," Version 4.2.

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# 7.2 Occupied Bandwidth §2.1049

#### **Test Overview**

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### **Test Procedure Used**

KDB 971168 D01 v03r01 - Section 4.2

#### **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW  $\geq$  3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
  - 1 5% of the 99% occupied bandwidth observed in Step 7

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

#### **Test Notes**

- 1. This device only supports 27RBs or less for 16-QAM uplink.
- 2. All RB sizes have been investigated and Full RB configuration was found and reported as worst case.

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#### LTE Band 26



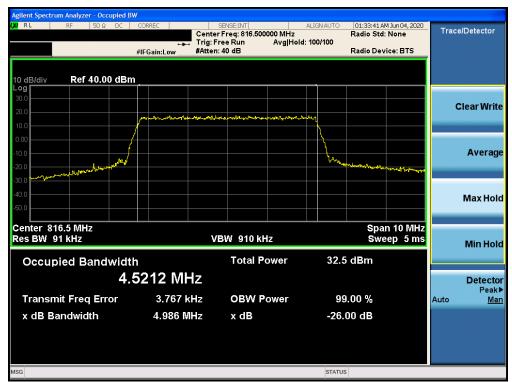
Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB Configuration)



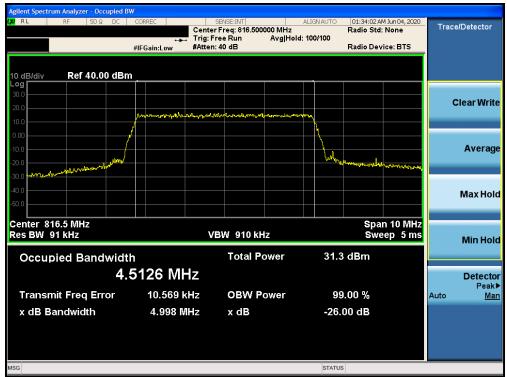
Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB Configuration)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK - Full RB Configuration)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM - Full RB Configuration)

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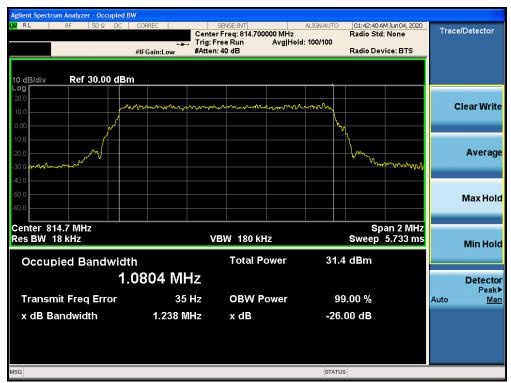
Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK - Full RB Configuration)



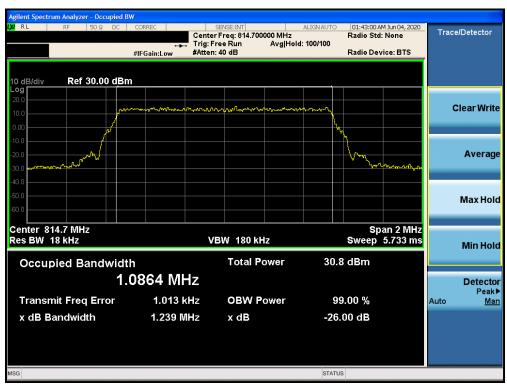
Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM - Full RB Configuration)

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Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 16-QAM - Full RB Configuration)

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# 7.3 Spurious and Harmonic Emissions at Antenna Terminal §2.1051 §90(S).691(a)

#### **Test Overview**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is  $43 + 10 \log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

#### **Test Procedure Used**

KDB 971168 D01 v03r01 - Section 6.0

#### **Test Settings**

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. RBW ≥ 100kHz
- 3. VBW ≥ 3 x RBW
- 4. Detector = RMS
- 5. Trace mode = trace average
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

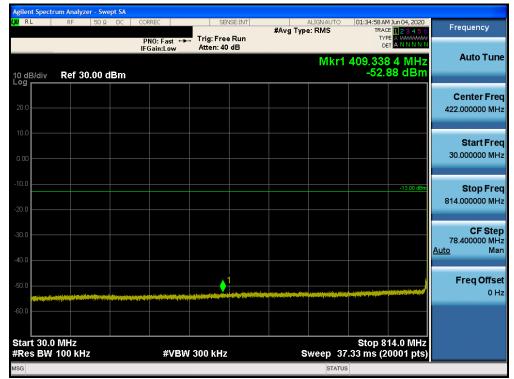
#### **Test Notes**

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 90. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

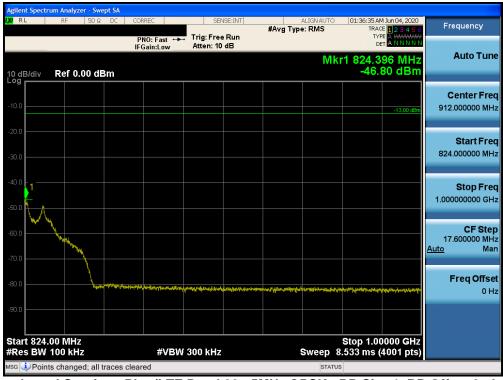
FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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#### LTE Band 26



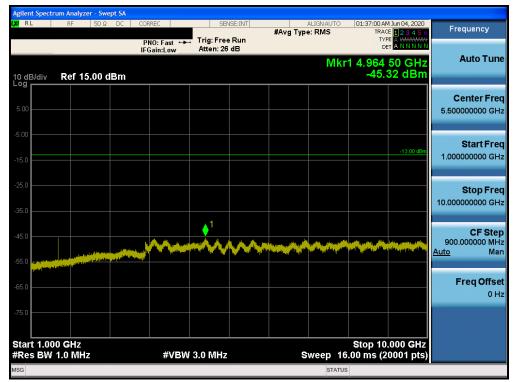
Plot 7-9. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



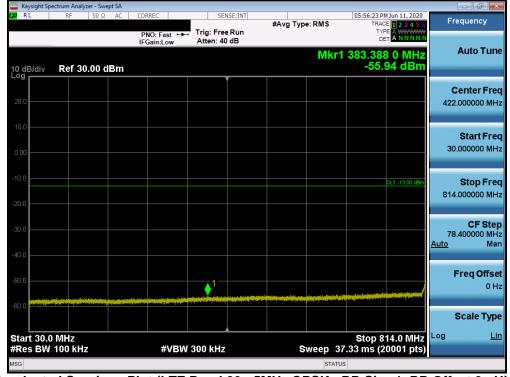
Plot 7-10. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCG-A2356	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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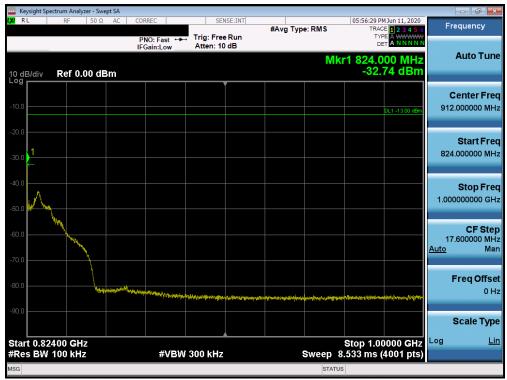
Plot 7-11. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-12. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-13. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-14. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# 7.4 Band Edge Emissions at Antenna Terminal §2.1051 §90(S).691(a)

#### **Test Overview**

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is 43 +  $10\log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is 50 +  $10\log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

#### **Test Procedure Used**

KDB 971168 D01 v03r01 - Section 6.0

#### **Test Settings**

- 1. Span was set large enough so as to capture all out of band emissions near the band edge
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Detector = RMS
- 5. Trace mode = trace average
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

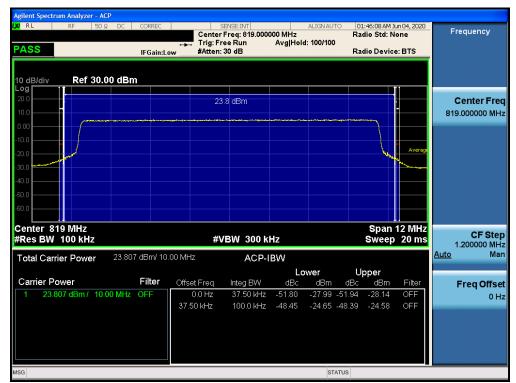
### **Test Notes**

- 1. For channel edge emission, the signal analyzer's "ACP" measurement capability is used.
- 2. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center.

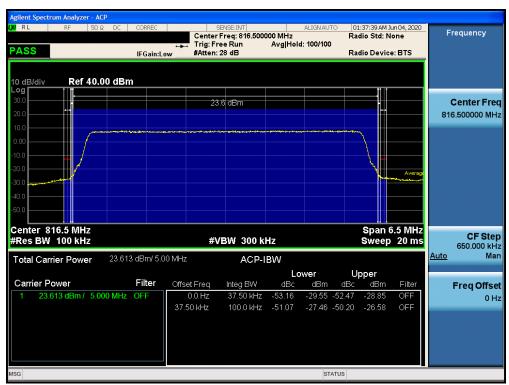
FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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#### LTE Band 26



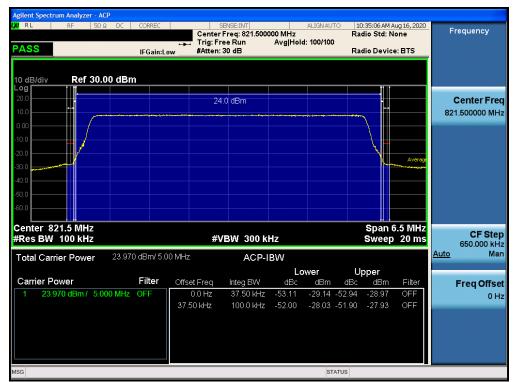
Plot 7-15. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Mid Channel)



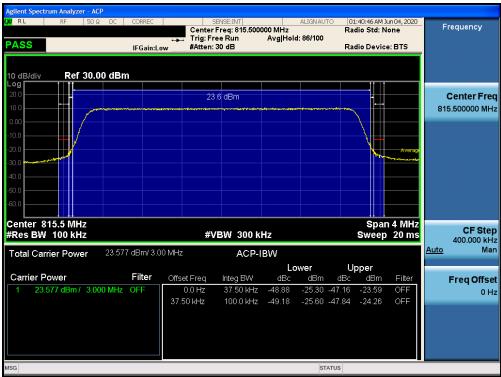
Plot 7-16. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Low Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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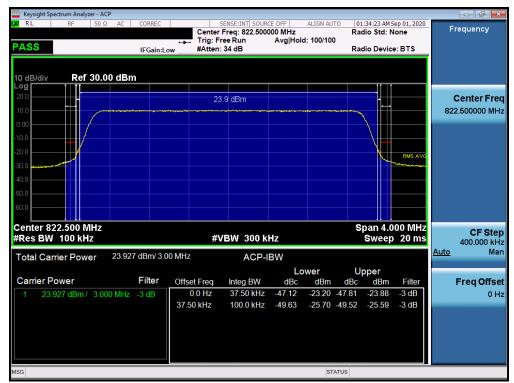
Plot 7-17. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - High Channel)



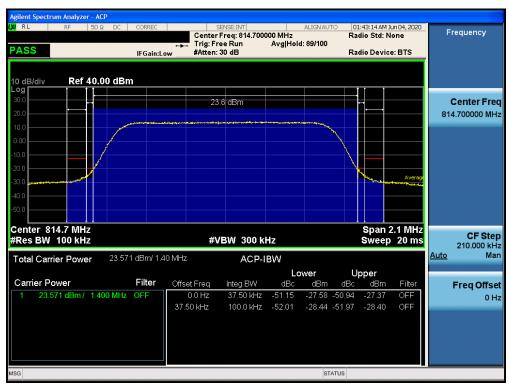
Plot 7-18. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Low Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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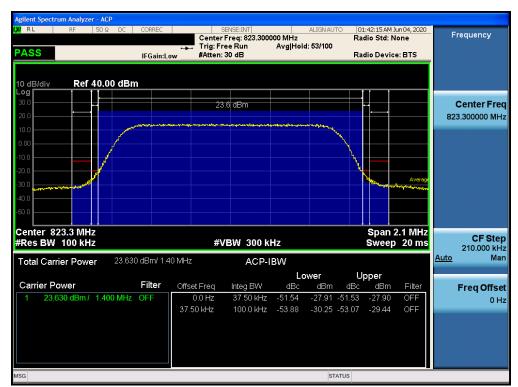
Plot 7-19. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - High Channel)



Plot 7-20. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Low Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-21. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - High Channel)

FCC ID: BCG-A2356	Proud to be post of element (CERTIFICATION)		Approved by: Quality Manager
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# 7.5 Conducted Power Output Data §2.1046 §90.635

#### **Test Overview**

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

#### **Test Procedures Used**

KDB 971168 D01 v03r01

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Conducted Power Measurement Setup

#### **Test Notes**

- 1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
- 2. This unit was tested with its standard battery.
- 3. This device only supports 27RBs or less for 16-QAM uplink.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [mW]	Conducted Power Limit [dBm]	Margin [dB]
10 MHz	QPSK	26740	819.0	1/0	24.70	295.121	50.00	-25.30
IO WITZ	16-QAM	26740	819.0	1/0	23.89	244.906	50.00	-26.11
	QPSK	26715	816.5	1/0	24.84	304.789	50.00	-25.16
5 MHz	5 MHz	26765	821.5	1 / 24	24.65	291.743	50.00	-25.35
	16-QAM	26765	821.5	1 / 24	23.86	243.220	50.00	-26.14
	QPSK	26705	815.5	1 / 7	24.80	301.995	50.00	-25.20
3 MHz	QFSK	26775	822.5	1 / 14	24.67	293.089	50.00	-25.33
	16-QAM	26705	815.5	1/0	23.85	242.661	50.00	-26.15
1.4 MHz QPSK	OBSK	26697	814.7	1/5	24.86	306.196	50.00	-25.14
	W-SK	26783	823.3	1/5	24.71	295.801	50.00	-25.29
	16-QAM	26697	814.7	1/0	23.85	242.661	50.00	-26.15

Table 7-2. LTE Band 26 Conducted Power Output Data

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# 7.6 Radiated Spurious Emissions §2.1053 §90(S).691(a)

#### **Test Overview**

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

#### **Test Procedures Used**

KDB 971168 D01 v03r01 - Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 - Section 2.2.12

#### **Test Settings**

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points  $\geq 2 \times \text{span} / \text{RBW}$
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

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#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.

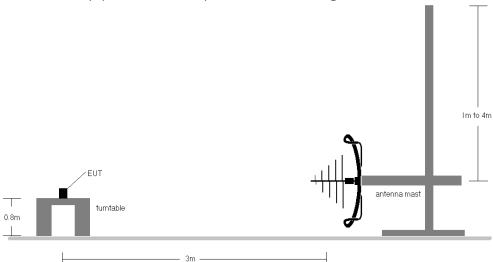


Figure 7-5. Radiated Measurement Setup < 1GHz

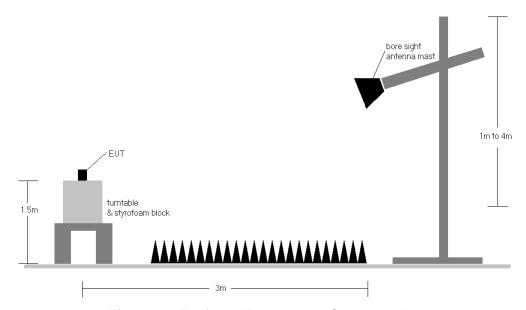


Figure 7-6. Radiated Measurement Setup >1 GHz

#### **Test Notes**

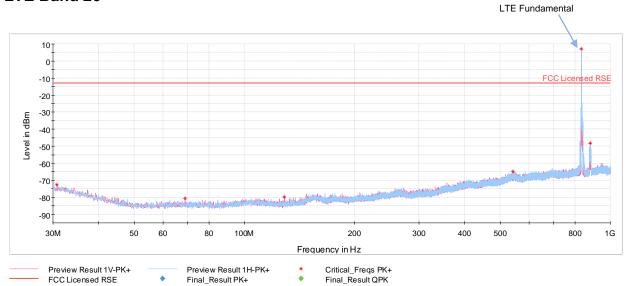
- 1. The worst case emissions are reported with modulations, offsets and channel bandwidth configurations in this section. QPSK/5MHz/1RB config was found and reported as worst configuration.
- 2. This unit was tested with its standard battery.
- 3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 4. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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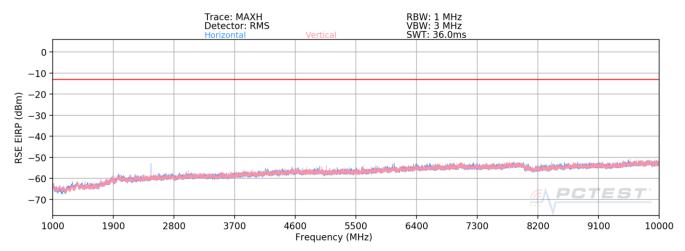
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#### LTE Band 26



Plot 7-22. Radiated Spurious Emissions Below 1GHz (Band 26)



Plot 7-23. Radiated Spurious Emissions Above 1GHz (Band 26)

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK

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]
1633.0	Н	261	89	-75.88	-3.36	27.76	-67.50	-13.00	-54.50
2449.5	Н	ı	ı	-78.33	1.29	29.96	-65.30	-13.00	-52.30
3266.0	Н	ı	ı	-79.02	2.94	30.92	-64.34	-13.00	-51.34
4082.5	Н	-	-	-79.63	4.77	32.14	-63.11	-13.00	-50.11

Table 7-3. Radiated Spurious Data (LTE Band 26 - Low Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK

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]
1643.0	Н	-	-	-71.33	-3.28	32.39	-62.87	-13.00	-49.87
2464.5	V	142	16	-76.15	1.57	32.42	-62.84	-13.00	-49.84
3286.0	V	-	-	-79.15	2.77	30.62	-64.64	-13.00	-51.64
4107.5	V	=	-	-81.64	4.88	30.24	-65.02	-13.00	-52.02
4929.0	Н	-	-	-81.96	6.30	31.34	-63.91	-13.00	-50.91

Table 7-4. Radiated Spurious Data (LTE Band 26 - High Channel)

FCC ID: BCG-A2356	Proud to be part of @ element	(0.77		
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# 7.7 Frequency Stability / Temperature Variation §2.1055 §90.213

#### **Test Overview and Limit**

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015/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.

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

TIA-603-E-2016

#### **Test Settings**

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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 wideband radio communication tester with the EUT placed inside an environmental chamber.



Figure 7-7. Test Instrument & Measurement Setup

#### **Test Notes**

None.

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# Frequency Stability / Temperature Variation §2.1055, §90.213

Operating Frequency (Hz):	819,000,000
Ref. Voltage (VDC):	3.80
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	819,000,001	1.2	0.0000015
		- 20	819,000,001	0.9	0.0000011
		- 10	819,000,001	1.3	0.0000016
		0	819,000,001	1.0	0.0000012
100 %	3.80	+ 10	819,000,001	1.1	0.0000013
		+ 20	819,000,001	0.9	0.0000011
		+ 30	819,000,001	0.9	0.0000011
		+ 40	819,000,001	1.0	0.00000012
		+ 50	819,000,001	0.7	0.00000009
Battery Endpoint	3.40	+ 20	819,000,001	0.8	0.0000010

Table 7-5. LTE Band 26 Frequency Stability Data – 10MHz QPSK Full RB Configuration

FCC ID: BCG-A2356	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# Frequency Stability / Temperature Variation §2.1055, §90.213

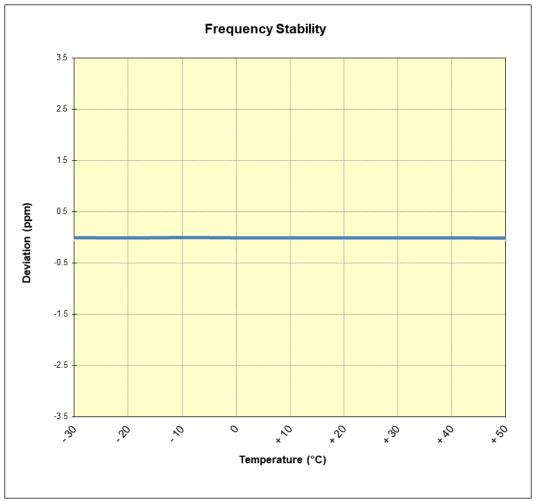


Figure 7-8. LTE Band 26 Frequency Stability Chart – 10MHz QPSK Full RB Configuration

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#### 8.0 CONCLUSION

data collected relate only to the item(s) tested and show that Apple Watch FCC ID: BCG-A2356 complies with all the requirements of Part 90 of the FCC rules.

FCC ID: BCG-A2356	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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