

ELEMENT WASHINGTON DC LLC

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PART 22 MEASUREMENT REPORT

Applicant Name: Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan Date of Testing: 6/6/2022 - 7/29/2022 Test Report Issue Date:

7/29/2022

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.: 1M2207200079-01.PY7

FCC ID: PY7-58692W

Applicant Name: Sony Corporation

Application Type:CertificationEUT Type:Portable Handset

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part: 22

Test Procedure(s): ANSI C63.26-2015, KDB 648474 D03 v01r04

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.

RJ Ortanez
Executive Vice President





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				l EF	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
GSM/GPRS	N/A	GMSK	824.2 - 848.8	0.304	24.83	242KGXW
EDGE	N/A	8-PSK	824.2 - 848.8	0.088	19.46	233KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.031	14.85	4M18F9W
	10 MHz 5 MHz	QPSK	829.0 - 844.0	0.020	13.00	9M06G7D
		16QAM	829.0 - 844.0	0.021	13.32	9M02W7D
		64QAM	829.0 - 844.0	0.022	13.34	9M04W7D
		QPSK	826.5 - 846.5	0.020	13.04	4M56G7D
		16QAM	826.5 - 846.5	0.022	13.42	4M54W7D
LTE Band 5		64QAM	826.5 - 846.5	0.022	13.46	4M54W7D
LIE Dand 5		QPSK	825.5 - 847.5	0.020	13.03	2M72G7D
	3 MHz	16QAM	825.5 - 847.5	0.021	13.24	2M72W7D
		64QAM	825.5 - 847.5	0.021	13.18	2M71W7D
		QPSK	824.7 - 848.3	0.020	12.91	1M11G7D
	1.4 MHz	16QAM	824.7 - 848.3	0.021	13.32	1M10W7D
		64QAM	824.7 - 848.3	0.022	13.42	1M11W7D

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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 **Element Test Location**

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 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.
- Element Washington DC LLC 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).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreement.

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PRODUCT INFORMATION

2.1 **Equipment Description**

The Equipment Under Test (EUT) is the Sony Corporation Portable Handset FCC ID: PY7-58692W. 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 Part 22.

Test Device Serial No.: 95101, 94880, 84320, 99864, 00001

2.2 **Device Capabilities**

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: Belkin F7U050 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version 0.45 installed on the EUT.

2.5 **EMI Suppression Device(s)/Modifications**

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

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DESCRIPTION OF TESTS

3.1 **Evaluation Procedure**

The measurement procedures described in the "American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services" (ANSI C63.26-2015) were used in the measurement of the EUT.

Deviation from Measurement ProcedureNone

3.2 Radiated Power and Radiated Spurious Emissions

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 turntable 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.

For radiated power measurements, substitution method is used per the guidance of ANSI C63.26-2015. For emissions below 1GHz, a half-wave dipole is 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_d 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 Pq [dBm] - cable loss [dB].

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

> E[dBuV/m] = Measured amplitude level[dBm] + 107 + Cable Loss[dB] + Antenna Factor[dB/m] And

 $EIRP_{fdBm}I = E_{fdBuV/m}I + 20logD - 104.8$; where D is the measurement distance in meters.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

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MEASUREMENT UNCERTAINTY

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	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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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 #
-	AP1-002	EMC Cable and Switch System	3/9/2022	Annual	3/9/2023	AP1-002
-	AP2-001	EMC Cable and Switch System	1/4/2022	Annual	1/4/2023	AP2-001
-	AP2-002	EMC Cable and Switch System	3/11/2022	Annual	3/11/2023	AP2-002
-	ETS-001	EMC Cable and Switch System	12/9/2021	Annual	12/9/2022	ETS-001
-	LTx1	Licensed Transmitter Cable Set	12/19/2021	Annual	12/19/2022	LTx1
-	LTx2	Licensed Transmitter Cable Set	12/19/2021	Annual	12/19/2022	LTx2
-	LTx4	Licensed Transmitter Cable Set	12/19/2021	Annual	12/19/2022	LTx4
ETS-Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/20/2021	Biennial	4/20/2023	125518
Keysight Technologies	N9020A	MXA Signal Analyzer	3/4/2022	Annual	3/4/2023	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	2/14/2022	Annual	2/14/2023	MY52350166
Keysight Technologies	N9038A	MXE EMI Receiver	1/21/2022	Annual	1/21/2023	MY51210133
Keysight Technologies	N9030A	PXA Signal Analyzer	1/6/2022	Annual	1/6/2023	MY55410501
Keysight Technologies	N9030B	PXA Signal Analyzer, Multi-touch	1/7/2022	Annual	1/7/2023	MY57141001
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	8/3/2021	Annual	8/3/2022	100342
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/28/2022	Annual	3/28/2023	101716
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	5/25/2021	Annual	7/25/2022	100348
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and spectrum analyzer	4/14/2022	Annual	4/14/2023	103187

Table 5-1. Test Equipment

Note:

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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SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHzG = Phase Modulation X = Cases not otherwise covered W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 250KG7W

EDGE BW = 250 kHz G = Phase Modulation 7 = Quantized/Digital Info W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz F = Frequency Modulation 9 = Composite Digital Info W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz G = Phase Modulation 7 = Quantized/Digital Info D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHzW = Amplitude/Angle Modulated 7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive 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 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

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TEST RESULTS

7.1 **Summary**

Company Name: Sony Corporation

FCC ID: PY7-58692W

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

Mode(s): GSM/GPRS/EDGE/WCDMA/LTE

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
	Transmitter Conducted Output Power	2.1046(a), 2.1046(c)	N/A	PASS	See RF Exposure Report
CTE	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	≥ 43 + 10 log (P[Watts]) dB of attenuation below transmitter power	PASS	Sections 7.3, 7.4
8	Frequency Stability	2.1055, 22.355	The carrier frequency of the transmitter must be maintained within the 2.5ppm	PASS	Section 7.7
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.5
RADI	Radiated Spurious Emissions	2.1053, 22.917(a)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.6

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 were all 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) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool
- 5) All conducted power measurements are contained in the RF exposure report for this filing

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Occupied Bandwidth

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

ANSI C63.26-2015 - Section 5.4.4

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

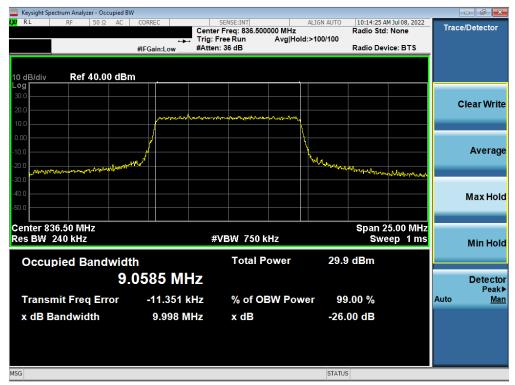
None.

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LTE Band 5



Plot 7-1. Occupied Bandwidth Plot (LTE Band 5 - 10MHz QPSK - Full RB)



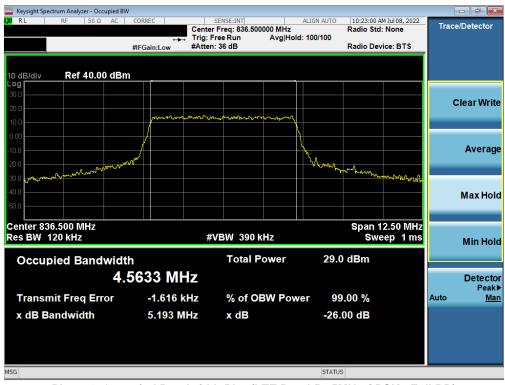
Plot 7-2. Occupied Bandwidth Plot (LTE Band 5 - 10MHz 16-QAM - Full RB)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 5 - 10MHz 64-QAM - Full RB)

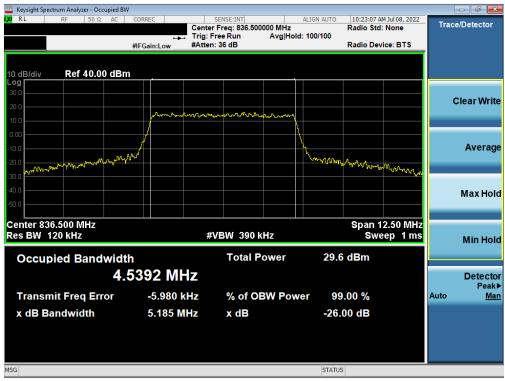


Plot 7-4. Occupied Bandwidth Plot (LTE Band 5 - 5MHz QPSK - Full RB)

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



Plot 7-6. Occupied Bandwidth Plot (LTE Band 5 - 5MHz 64-QAM - Full RB)

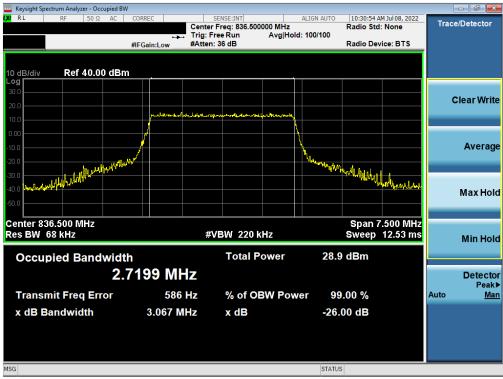
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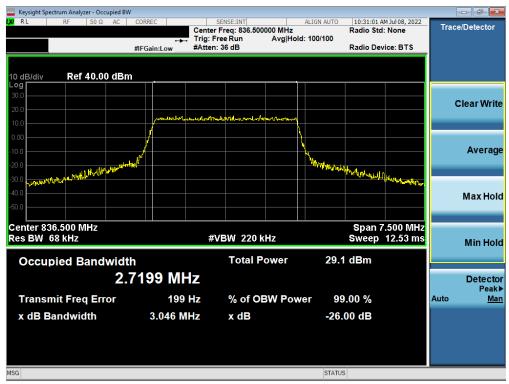
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 5 - 3MHz QPSK - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 5 - 3MHz 16-QAM - Full RB)

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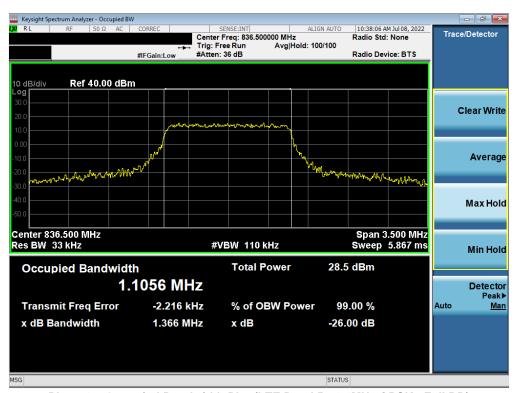
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Plot 7-9. Occupied Bandwidth Plot (LTE Band 5 - 3MHz 64-QAM - Full RB)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz QPSK - Full RB)

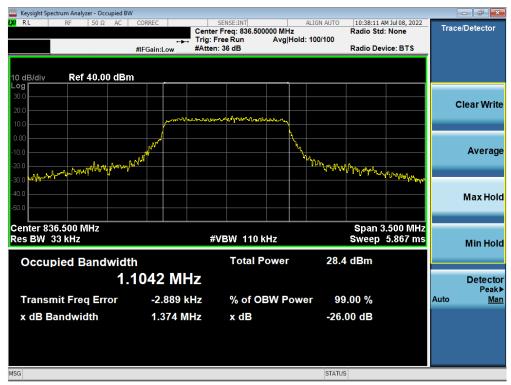
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Plot 7-11. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz 16-QAM - Full RB)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz 64-QAM - Full RB)

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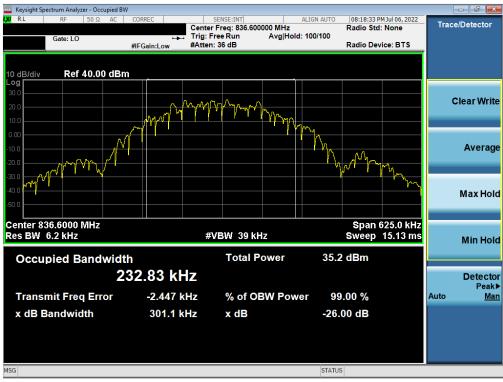
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GPRS Cell



Plot 7-13. Occupied Bandwidth Plot (GPRS, Ch. 190)



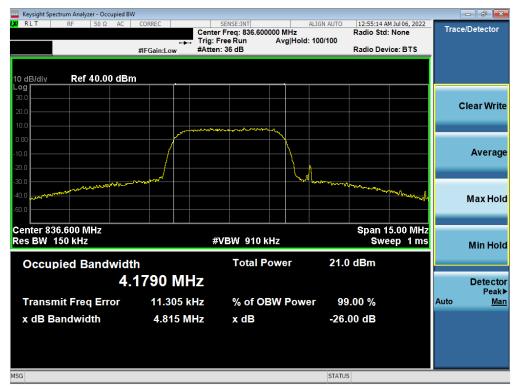
Plot 7-14. Occupied Bandwidth Plot (EDGE, Ch. 190)

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WCDMA Cell



Plot 7-15. Occupied Bandwidth Plot (WCDMA, Ch. 4183)

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7.3 Spurious and Harmonic Emissions at Antenna Terminal

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 10th 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

ANSI C63.26-2015 - Section 5.7.4

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. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Note

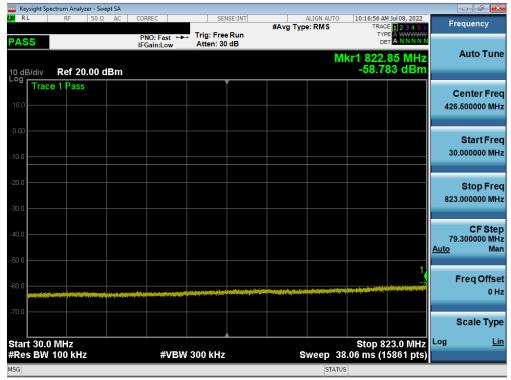
Per Part 22, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater.

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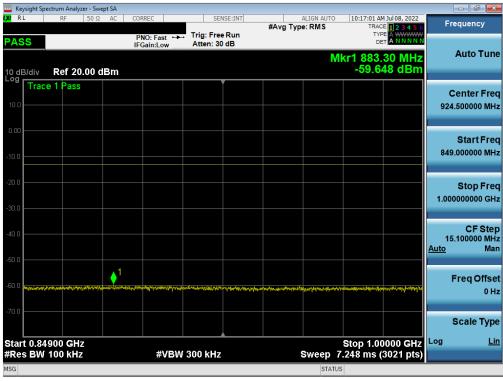
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LTE Band 5



Plot 7-16. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel)



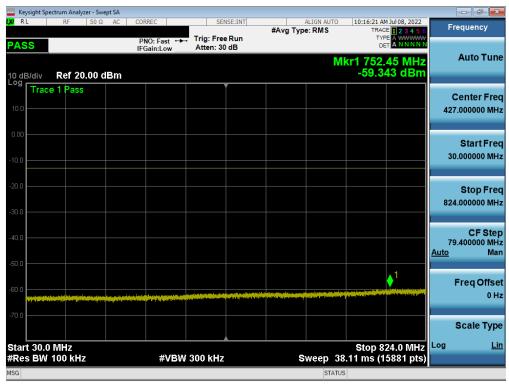
Plot 7-17. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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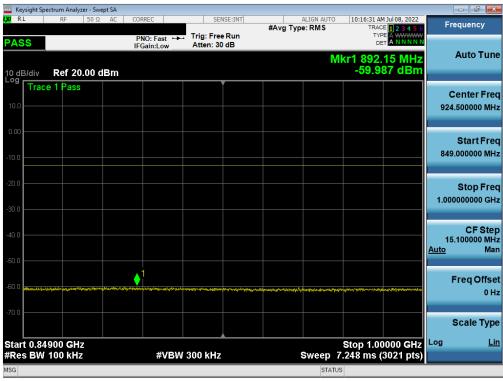
Plot 7-18. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel)



Plot 7-19. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel)

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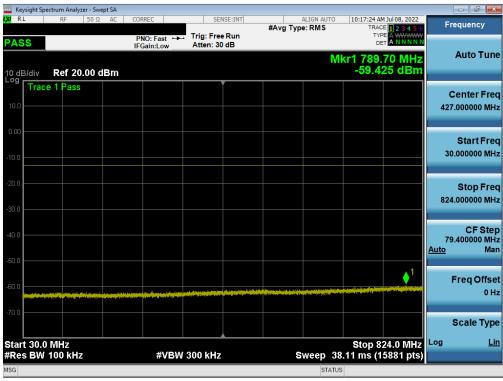
Plot 7-20. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel)



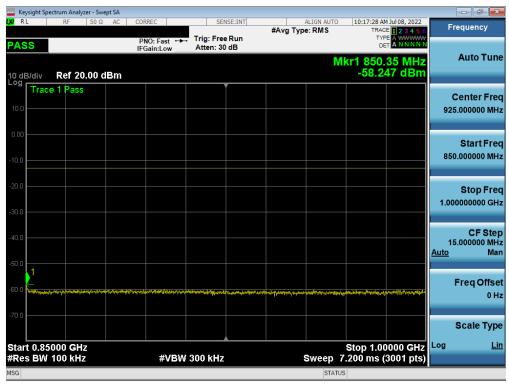
Plot 7-21. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel)

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Plot 7-22. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel)



Plot 7-23. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel)

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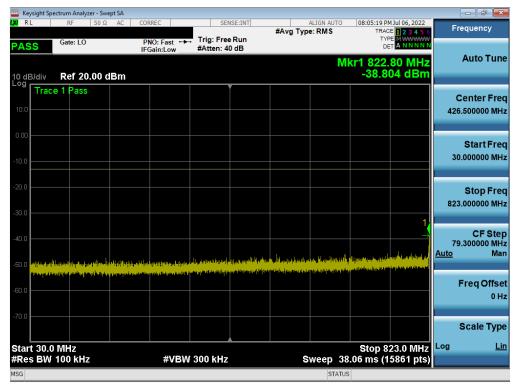
Plot 7-24. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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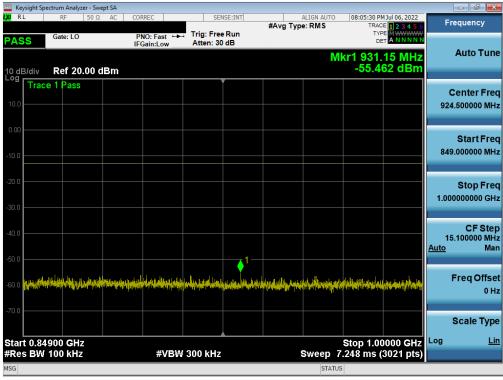
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GSM/GPRS Cell



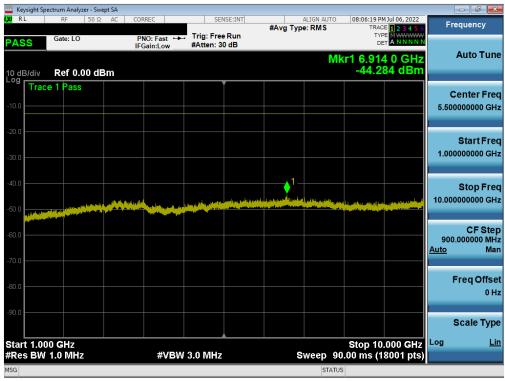
Plot 7-25. Conducted Spurious Plot (GPRS Ch. 128)



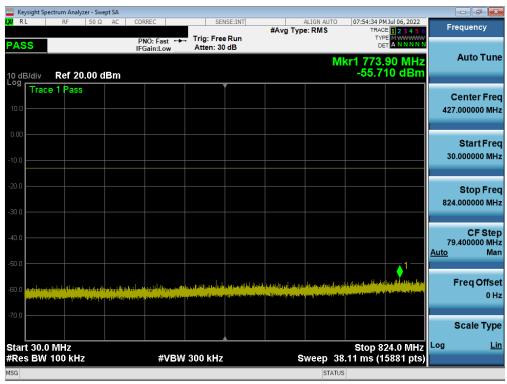
Plot 7-26. Conducted Spurious Plot (GPRS Ch. 128)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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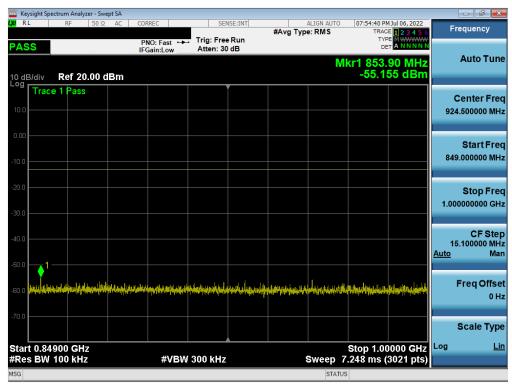
Plot 7-27. Conducted Spurious Plot (GPRS Ch. 128)



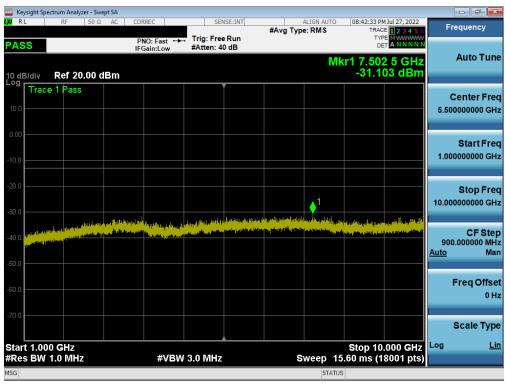
Plot 7-28. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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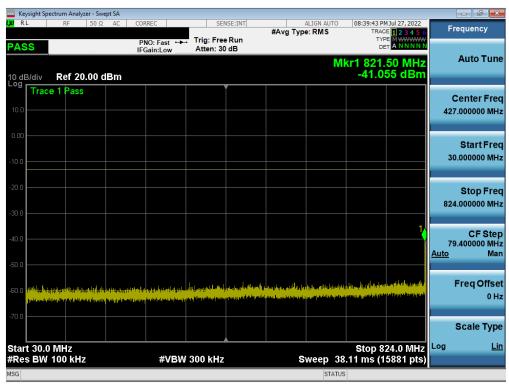
Plot 7-29. Conducted Spurious Plot (GPRS Ch. 190)



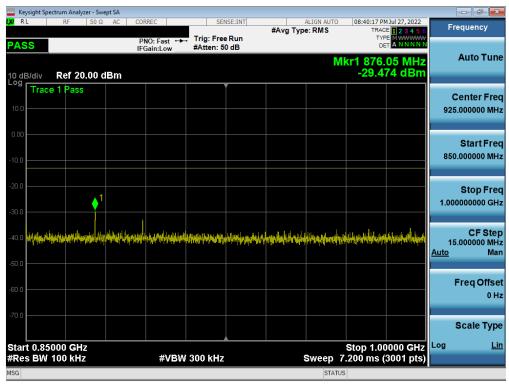
Plot 7-30. Conducted Spurious Plot (GPRS Ch. 190)

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Plot 7-31. Conducted Spurious Plot (GPRS Ch. 251)



Plot 7-32. Conducted Spurious Plot (GPRS Ch. 251)

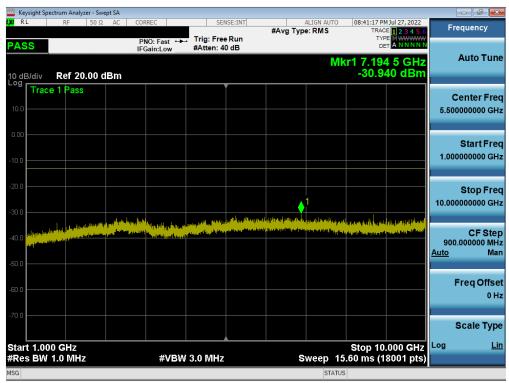
FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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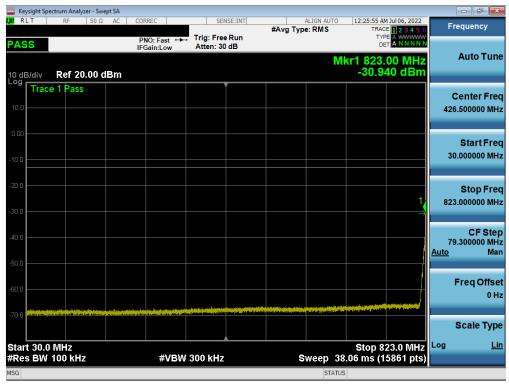


Plot 7-33. Conducted Spurious Plot (GPRS Ch. 251)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell



Plot 7-34. Conducted Spurious Plot (WCDMA Ch. 4132)



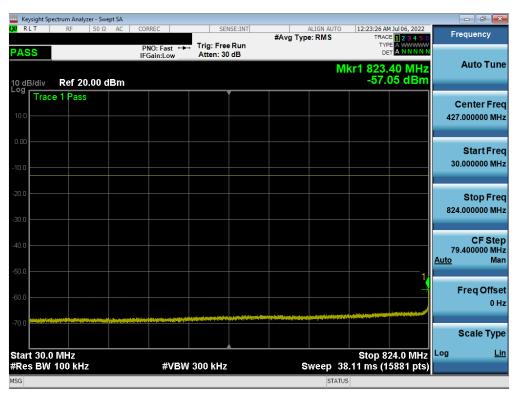
Plot 7-35. Conducted Spurious Plot (WCDMA Ch. 4132)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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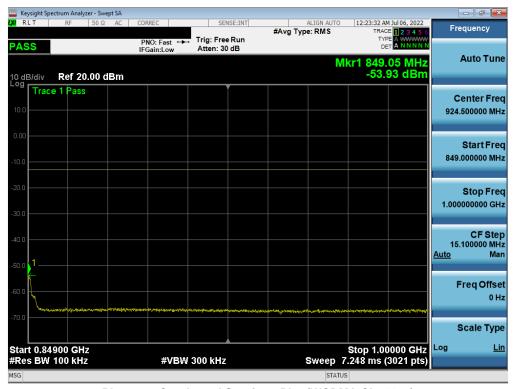
Plot 7-36. Conducted Spurious Plot (WCDMA Ch. 4132)



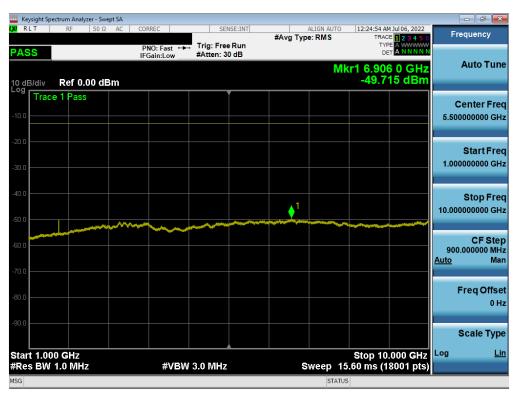
Plot 7-37. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager	
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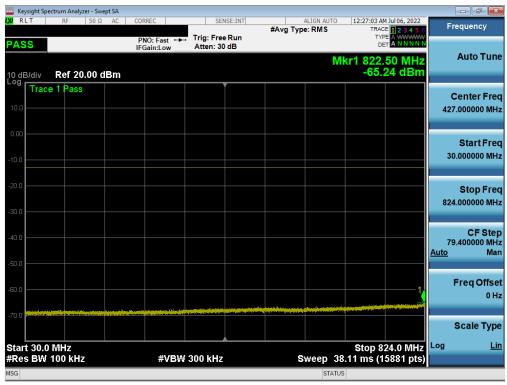
Plot 7-38. Conducted Spurious Plot (WCDMA Ch. 4183)



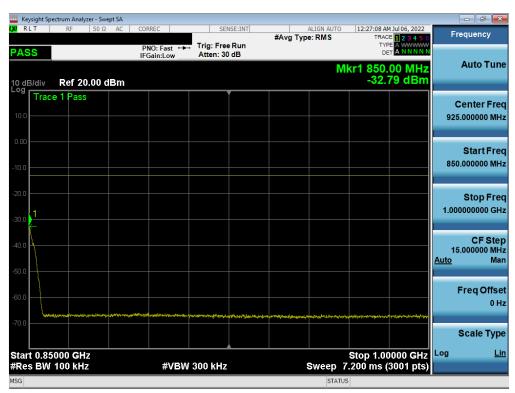
Plot 7-39. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-40. Conducted Spurious Plot (WCDMA Ch. 4233)



Plot 7-41. Conducted Spurious Plot (WCDMA Ch. 4233)

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Plot 7-42. Conducted Spurious Plot WCDMA Ch. 4233)

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Band Edge Emissions at Antenna Terminal

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.

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

ANSI C63.26-2015 - Section 5.7.3

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW \geq 1% of the emission bandwidth
- 4. $VBW \ge 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. 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 Note

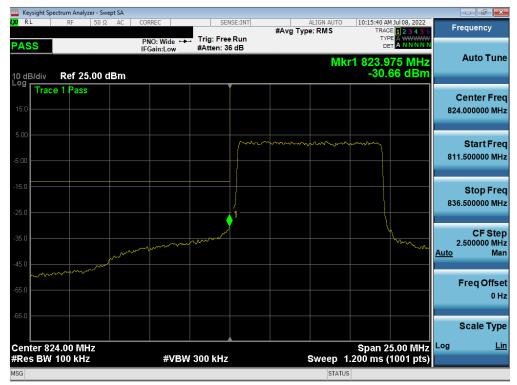
Per 22.917(b) and RSS-132(5.5), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. 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 frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

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LTE Band 5



Plot 7-43. Lower Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB)



Plot 7-44. Upper Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB)

FCC ID: PY7-58692W		Approved by: Technical Manager		
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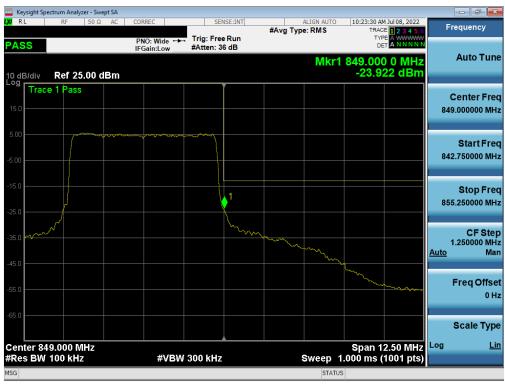
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Plot 7-45. Lower Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB)



Plot 7-46. Upper Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB)

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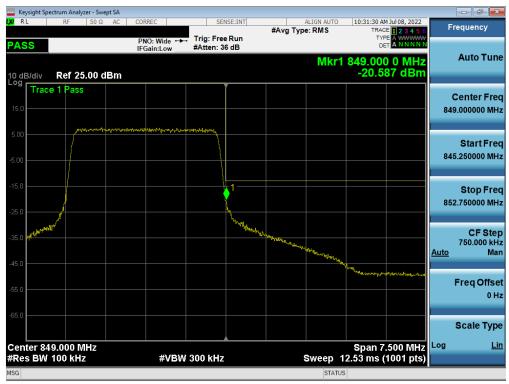
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Plot 7-47. Lower Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB)



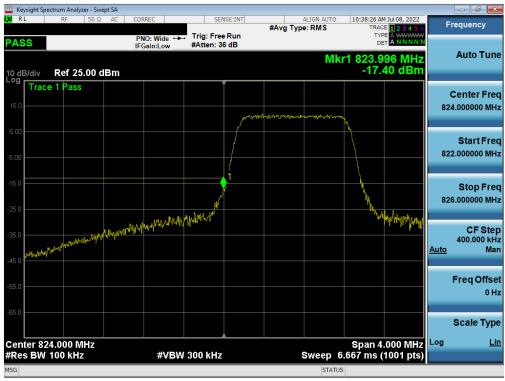
Plot 7-48. Upper Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB)

FCC ID: PY7-58692W		Approved by: Technical Manager		
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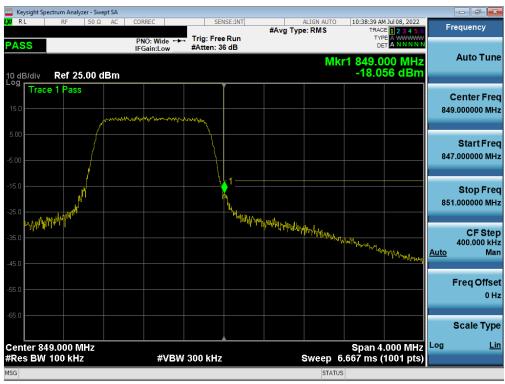
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Plot 7-49. Lower Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB)



Plot 7-50. Upper Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB)

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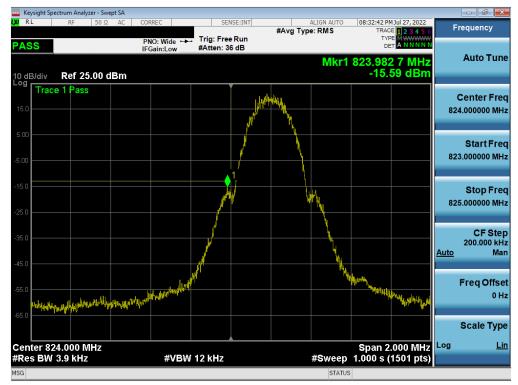
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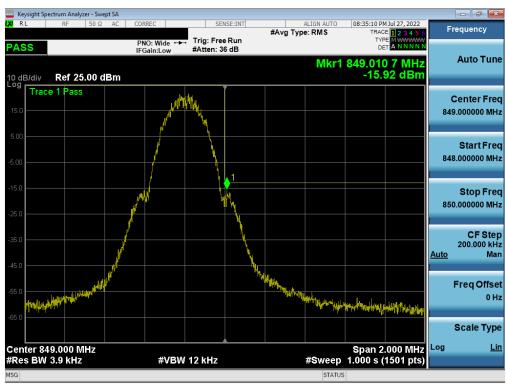
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GSM/GPRS Cell



Plot 7-51. Lower Band Edge Plot (GPRS Cell - Ch. 128)



Plot 7-52. Upper Band Edge Plot (GPRS Cell - Ch. 251)

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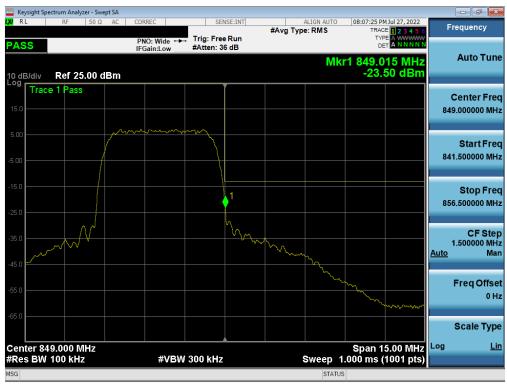
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WCDMA Cell



Plot 7-53. Lower Band Edge Plot (WCDMA Cell - Ch. 4132)



Plot 7-54. Upper Band Edge Plot (WCDMA Cell - Ch. 4233)

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7.5 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.2.4.4

Test Settings

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used.
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW \geq 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points $\geq 2 \times \text{span} / \text{RBW}$
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. 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.

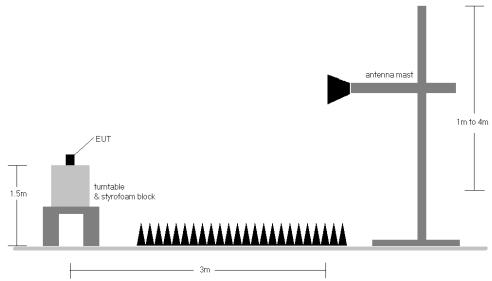


Figure 7-4. Radiated Test Setup < 1GHz

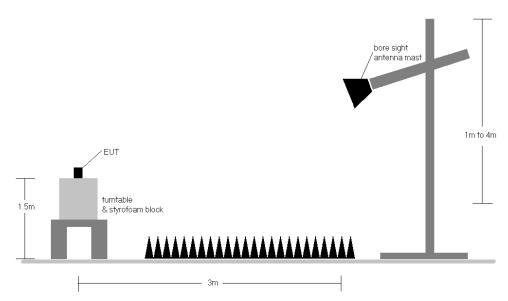


Figure 7-5. Radiated Test Setup > 1GHz

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Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
	QPSK	829.0	٧	130	98	6.10	1/0	9.05	13.00	0.020	38.45	-25.45
	QPSK	836.5	V	131	138	6.18	1 / 49	8.59	12.62	0.018	38.45	-25.83
	QPSK	844.0	V	140	115	6.36	1 / 49	8.74	12.95	0.020	38.45	-25.50
	16-QAM	829.0	V	130	98	6.10	1/0	9.37	13.32	0.021	38.45	-25.13
10 MHz	16-QAM	836.5	V	131	138	6.18	1 / 49	9.13	13.16	0.021	38.45	-25.29
	16-QAM	844.0	V	140	115	6.36	1 / 49	9.04	13.25	0.021	38.45	-25.20
	64-QAM	829.0	V	130	98	6.10	1/0	9.39	13.34	0.022	38.45	-25.11
	64-QAM	836.5	V	131	138	6.18	1 / 49	8.64	12.67	0.018	38.45	-25.78
	64-QAM	844.0	٧	140	115	6.36	1 / 49	8.88	13.09	0.020	38.45	-25.36
	QPSK	829.0	V	130	98	6.07	1 / 12	9.11	13.04	0.020	38.45	-25.42
	QPSK	836.5	V	131	138	6.18	1/0	8.61	12.64	0.018	38.45	-25.81
	QPSK	844.0	V	140	115	6.38	1 / 12	8.72	12.95	0.020	38.45	-25.50
	16-QAM	829.0	V	130	98	6.07	1/0	9.43	13.36	0.022	38.45	-25.10
5 MHz	16-QAM	836.5	V	131	138	6.18	1/0	9.37	13.40	0.022	38.45	-25.05
	16-QAM	844.0	٧	140	115	6.38	1 / 12	9.19	13.42	0.022	38.45	-25.03
	64-QAM	829.0	٧	130	98	6.07	1/0	9.54	13.46	0.022	38.45	-24.99
	64-QAM	836.5	V	131	138	6.18	1/0	8.74	12.77	0.019	38.45	-25.68
	64-QAM	844.0	V	140	115	6.38	1 / 12	8.85	13.08	0.020	38.45	-25.37
	QPSK	829.0	V	130	98	6.06	1 / 14	9.03	12.94	0.020	38.45	-25.51
	QPSK	836.5	V	131	138	6.18	1/7	8.75	12.78	0.019	38.45	-25.67
	QPSK	844.0	V	140	115	6.39	1/7	8.79	13.03	0.020	38.45	-25.42
	16-QAM	829.0	V	130	98	6.06	1/0	9.32	13.24	0.021	38.45	-25.21
3 MHz	16-QAM	836.5	V	131	138	6.18	1/7	9.17	13.20	0.021	38.45	-25.25
	16-QAM	844.0	V	140	115	6.39	1/0	8.92	13.16	0.021	38.45	-25.29
	64-QAM	829.0	V	130	98	6.06	1/0	9.26	13.18	0.021	38.45	-25.27
	64-QAM	836.5	V	131	138	6.18	1/7	8.75	12.78	0.019	38.45	-25.67
	64-QAM	844.0	V	140	115	6.39	1/7	8.79	13.03	0.020	38.45	-25.42
	QPSK	829.0	V	130	98	6.09	1/5	8.98	12.91	0.020	38.45	-25.54
	QPSK	836.5	V	131	138	6.18	1/3	8.51	12.54	0.018	38.45	-25.92
	QPSK	844.0	V	140	115	6.40	1/5	8.66	12.91	0.020	38.45	-25.54
	16-QAM	829.0	V	130	98	6.09	1/0	9.32	13.25	0.021	38.45	-25.20
1.4 MHz	16-QAM	836.5	V	131	138	6.18	1/0	8.97	13.00	0.020	38.45	-25.45
	16-QAM	844.0	٧	140	115	6.40	1/3	9.07	13.32	0.021	38.45	-25.13
	64-QAM	829.0	V	130	98	6.09	1/0	9.49	13.42	0.022	38.45	-25.03
	64-QAM	836.5	V	131	138	6.18	1/3	8.67	12.70	0.019	38.45	-25.75
	64-QAM	844.0	٧	140	115	6.40	1/3	8.71	12.96	0.020	38.45	-25.49
40 MH-	QPSK (Opposite Pol.)	829.0	Н	204	163	6.70	1 / 25	7.06	11.61	0.014	38.45	-26.84
10 MHz	QPSK (WCP)	829.0	Н	202	59	6.70	1/0	8.54	13.09	0.020	38.45	-25.36

Table 7-2. ERP Data (LTE Band 5)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.2	GPRS850	V	151	107	20.20	6.13	24.18	0.262	38.45	-14.27
836.6	GPRS850	V	123	118	19.13	6.18	23.16	0.207	38.45	-15.29
848.8	GPRS850	V	162	103	20.57	6.41	24.83	0.304	38.45	-13.63
848.8	GPRS850	Н	215	60	19.27	6.73	23.85	0.242	38.45	-14.61
848.8	EDGE850	V	162	103	15.20	6.41	19.46	0.088	38.45	-19.00
848.8	GPRS850 (WCP)	Н	208	77	18.24	6.73	22.82	0.191	38.45	-15.64

Table 7-3. ERP Data (GPRS Cell)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.4	WCDMA850	Η	215	71	9.96	6.67	14.48	0.028	38.45	-23.97
836.6	WCDMA850	Н	202	75	10.00	6.74	14.59	0.029	38.45	-23.86
846.6	WCDMA850	Н	208	63	10.22	6.78	14.85	0.031	38.45	-23.60
846.6	WCDMA850	V	150	70	9.08	6.78	13.71	0.024	38.45	-24.74
846.6	WCDMA850 (WCP)	Н	205	78	7.36	6.78	11.99	0.016	38.45	-26.46

Table 7-4. ERP Data (WCDMA Cell)

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Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.5.4

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW \geq 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.

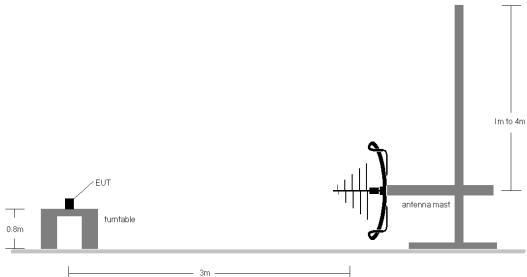


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

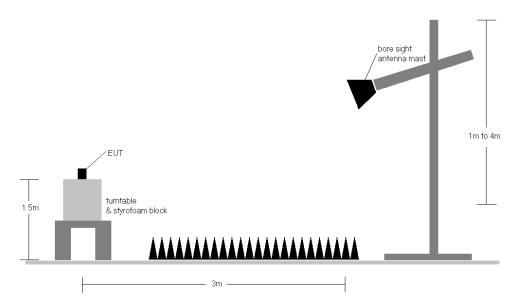


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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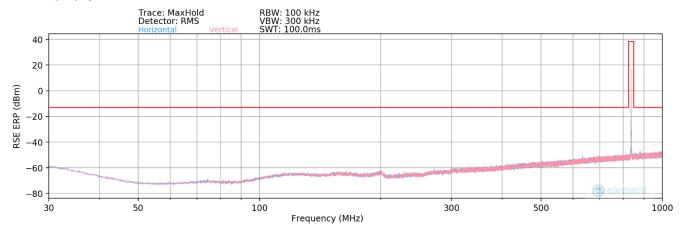
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b) EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

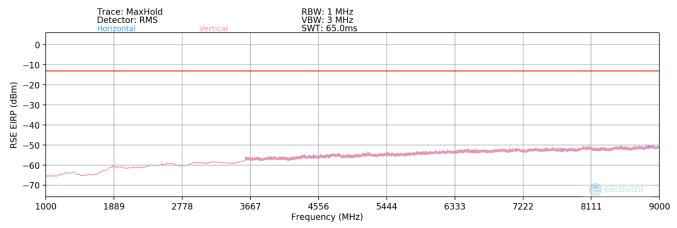
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LTE Band 5



Plot 7-55. Radiated Spurious Plot Below 1GHz (LTE Band 5)



Plot 7-56. Radiated Spurious Plot (LTE Band 5)

Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1 / 25

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]
200.00	V	-	-	-92.35	-16.38	-1.73	-99.14	-13.00	-86.14

Table 7-5. Radiated Spurious Data Below 1GHz (LTE Band 5 - Low Channel)

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Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1/25

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
1658.00	V	107	37	-78.29	0.98	29.69	-65.57	-13.00	-52.57
2487.00	V	116	261	-79.61	5.33	32.72	-62.54	-13.00	-49.54
3316.00	V	-	-	-80.05	7.43	34.38	-60.87	-13.00	-47.87
4145.00	V	-	ı	-80.85	8.42	34.57	-60.68	-13.00	-47.68
4974.00	V	-	-	-80.96	9.91	35.95	-59.30	-13.00	-46.30

Table 7-6. Radiated Spurious Data (LTE Band 5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25

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
1673.00	V	110	45	-78.41	1.33	29.92	-65.34	-13.00	-52.34
2509.50	V	131	267	-79.04	5.25	33.21	-62.04	-13.00	-49.04
3346.00	V	-	-	-80.83	7.55	33.72	-61.54	-13.00	-48.54
4182.50	V	-	-	-80.95	8.28	34.33	-60.92	-13.00	-47.92
5019.00	V	-	-	-81.20	10.53	36.33	-58.92	-13.00	-45.92

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

Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1 / 25

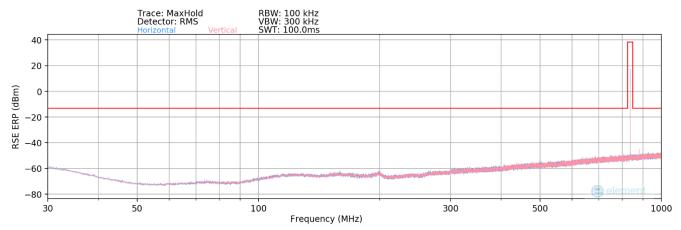
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB
1688.00	V	-	-	-78.73	1.60	29.87	-65.39	-13.00	-52.39
2532.00	V	131	266	-79.49	5.71	33.22	-62.04	-13.00	-49.04
3376.00	V	-	-	-80.20	7.13	33.93	-61.33	-13.00	-48.33
4220.00	V	-	-	-80.89	9.10	35.21	-60.05	-13.00	-47.05
5064.00	V	-	-	-81.01	10.26	36.25	-59.01	-13.00	-46.01

Table 7-8. Radiated Spurious Data (LTE Band 5 – High Channel)

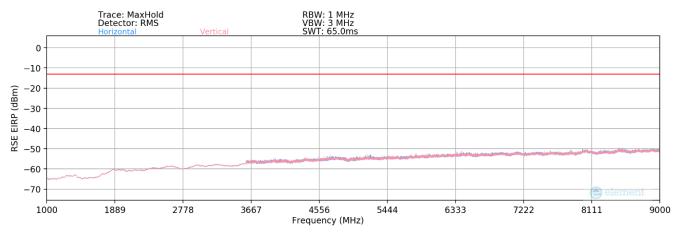
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GPRS Cell



Plot 7-57. Radiated Spurious Plot Below 1GHz (GPRS Cell)



Plot 7-58. Radiated Spurious Plot (GPRS Cell)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.5

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]
202.04	Н	-	-	-97.28	19.54	29.26	-68.15	-13.00	-55.15

Table 7-9. Radiated Spurious Data Below 1GHz (GPRS Cell - Mid Channel)

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Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

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]
1648.40	Н	168	113	-61.93	-3.94	41.13	-54.13	-13.00	-41.13
2472.60	Н	182	64	-73.39	0.32	33.93	-61.33	-13.00	-48.33
3296.80	Н	131	150	-68.82	2.00	40.18	-55.08	-13.00	-42.08
4121.00	Н	-	-	-77.16	2.95	32.79	-62.47	-13.00	-49.47
4945.20	Н	-	1	-77.02	3.76	33.74	-61.51	-13.00	-48.51
5769.40	Н	-	-	-77.14	5.42	35.28	-59.98	-13.00	-46.98

Table 7-10. Radiated Spurious Data (GPRS Cell - Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

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]
1673.20	Н	160	161	-66.52	-3.65	36.83	-58.43	-13.00	-45.43
2509.80	Н	170	150	-54.69	0.74	53.05	-42.21	-13.00	-29.21
3346.40	Н	127	158	-70.23	1.85	38.62	-56.64	-13.00	-43.64
4183.00	Н	390	141	-74.53	2.76	35.23	-60.02	-13.00	-47.02
5019.60	Н	-	-	-76.89	4.18	34.29	-60.96	-13.00	-47.96
5856.20	Н		-	-77.55	5.68	35.13	-60.12	-13.00	-47.12
6692.80	Н	-	-	-77.37	6.91	36.54	-58.72	-13.00	-45.72

Table 7-11. Radiated Spurious Data (GPRS Cell - Mid Channel)

Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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]
1697.60	Н	150	322	-64.94	-2.97	39.09	-56.16	-13.00	-43.16
2546.40	Н	199	152	-57.35	1.23	50.88	-44.38	-13.00	-31.38
3395.20	Н	152	165	-70.05	1.61	38.56	-56.69	-13.00	-43.69
4244.00	Н	384	169	-73.84	2.95	36.11	-59.15	-13.00	-46.15
5092.80	Н	-	-	-77.21	4.56	34.35	-60.91	-13.00	-47.91
5941.60	Н	-	-	-77.52	5.72	35.20	-60.06	-13.00	-47.06
6790.40	Н	-	-	-77.53	6.76	36.23	-59.03	-13.00	-46.03

Table 7-12. Radiated Spurious Data (GPRS Cell – High Channel)

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Case:	w/ Wireless Charging Pad
Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.5

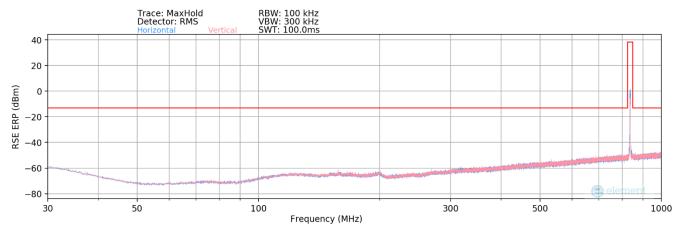
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	Н	156	103	-67.12	-3.65	36.23	-59.03	-13.00	-46.03
2509.80	Н	128	148	-55.72	0.74	52.02	-43.24	-13.00	-30.24
3346.40	Н	158	151	-69.95	1.85	38.90	-56.36	-13.00	-43.36
4183.00	Н	385	163	-74.27	2.76	35.49	-59.76	-13.00	-46.76
5019.60	Н	-	-	-77.02	4.18	34.16	-61.09	-13.00	-48.09
5856.20	Н	-	-	-77.83	5.68	34.85	-60.40	-13.00	-47.40
6692.80	Н	-	-	-77.17	6.91	36.74	-58.52	-13.00	-45.52

Table 7-13. Radiated Spurious Data with WCP (GPRS Cell)

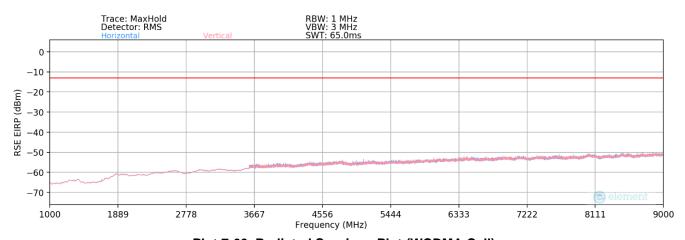
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WCDMA Cell



Plot 7-59. Radiated Spurious Plot Below 1GHz (WCDMA Cell)



Plot 7-60. Radiated Spurious Plot (WCDMA Cell)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
168.79	V	-	-	-107.52	19.70	19.18	-78.23	-13.00	-65.23
538.25	V	-	-	-107.04	26.27	26.23	-71.18	-13.00	-58.18

Table 7-14. Radiated Spurious Data Below 1GHz (WCDMA Cell - Mid Channel)

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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.80	V	-	-	-76.94	-0.94	29.12	-66.14	-13.00	-53.14
2479.20	V	-	-	-77.98	3.24	32.26	-62.99	-13.00	-49.99
3305.60	V	-	-	-78.44	4.65	33.21	-62.04	-13.00	-49.04

Table 7-15. Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.20	V	-	-	-76.91	-0.91	29.18	-66.08	-13.00	-53.08
2509.80	V	-	-	-77.98	3.53	32.55	-62.71	-13.00	-49.71
3346.40	V	-	-	-78.84	5.11	33.27	-61.98	-13.00	-48.98

Table 7-16. Radiated Spurious Data (WCDMA Cell - Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.20	V	-	-	-76.79	-0.84	29.37	-65.88	-13.00	-52.88
2539.80	V	-	-	-77.93	3.06	32.13	-63.12	-13.00	-50.12
3386.40	V	-	-	-78.43	5.02	33.59	-61.67	-13.00	-48.67

Table 7-17. Radiated Spurious Data (WCDMA Cell – High Channel)

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7.7 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 22 and RSS-132, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

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

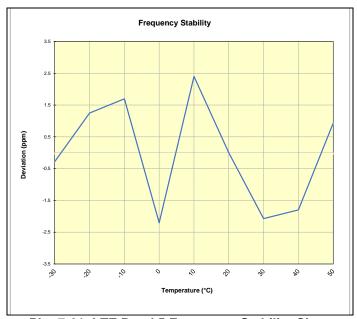
FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 5

	Operating F	requency (Hz):	836,500,000		
	Ref.	Voltage (VDC):	4.28		
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
'					•
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
	4.28	- 30	836,590,867	-233	-0.0000279
		- 20	836,592,145	1,045	0.0001249
		- 10	836,592,518	1,418	0.0001695
		0	836,589,257	-1,843	-0.0002203
100 %		+ 10	836,593,109	2,009	0.0002401
		+ 20 (Ref)	836,591,100	0	0.0000000
		+ 30	836,589,367	-1,733	-0.0002072
		+ 40	836,589,595	-1,505	-0.0001799
		+ 50	836,591,876	776	0.0000928
Battery Endpoint	3.69	+ 20	836,592,468	1,368	0.0001635

Table 7-18. LTE Band 5 Frequency Stability Data



Plot 7-61. LTE Band 5 Frequency Stability Chart

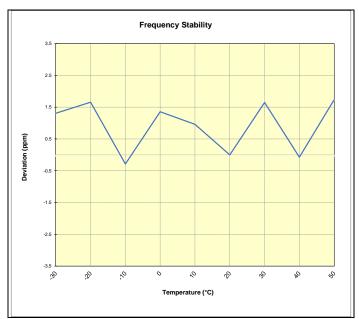
FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell

	Operating F	requency (Hz):	836,600,000		
	Ref. Voltage (VDC):		4.28		
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
	1				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	836,598,185	1,095	0.0001309
		- 20	836,598,476	1,386	0.0001657
		- 10	836,596,851	-239	-0.0000286
		0	836,598,226	1,136	0.0001358
		+ 10	836,597,893	803	0.0000960
		+ 20 (Ref)	836,597,090	0	0.0000000
		+ 30	836,598,470	1,380	0.0001650
		+ 40	836,597,029	-61	-0.0000073
		+ 50	836,598,543	1,453	0.0001737
Battery Endpoint	3.69	+ 20	836,597,855	765	0.0000914

Table 7-19. GSM/GPRS Cell Frequency Stability Data



Plot 7-62. GSM/GPRS Cell Frequency Stability Chart

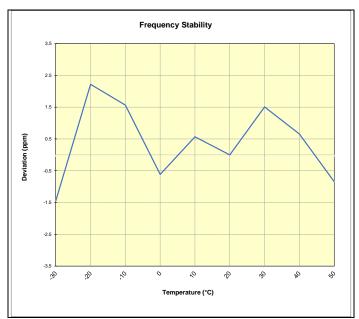
FCC ID: PY7-58692W	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell

	Operating F	00.000			
	Operating Frequency (Hz):		836,600,000		
	Ref.	Voltage (VDC):	4.28		
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	836,600,951	-1,209	-0.0001445
		- 20	836,604,018	1,858	0.0002221
		- 10	836,603,468	1,308	0.0001563
		0	836,601,647	-513	-0.0000613
		+ 10	836,602,634	474	0.0000567
		+ 20 (Ref)	836,602,160	0	0.0000000
		+ 30	836,603,421	1,261	0.0001507
		+ 40	836,602,709	549	0.0000656
	+ 50	836,601,454	-706	-0.0000844	
Battery Endpoint	3.69	+ 20	836,602,941	781	0.0000934

Table 7-20. WCDMA Cell Frequency Stability Data



Plot 7-63. WCDMA Cell Frequency Stability Chart

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CONCLUSION

The data collected relate only to the item(s) tested and show that the Sony Corporation Portable Handset FCC ID: PY7-58692W complies with all the requirements of Part 22 of the FCC rules.

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