

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:

02/08/2023 - 03/24/2023 **Test Report Issue Date:**

04/28/2023

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.: 1M2302060006-01-R2.PY7

FCC ID: PY7-84558E

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

Note: This revised Test Report (S/N: 1M2302060006-01-R2.PY7) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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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				E	RP	13	RP	Emission Designator 243KGXW 248KG7W 4M16F9W 9M02G7D 9M04W7D 4M54G7D 4M52W7D 2M71G7D 1M11G7D 1M11W7D 19M0G7D 19M0W7D 13M5G7D 14M2W7D 9M04G7D 9M04G7D 9M04G7D 9M34G7D 9M34W7D 4M52G7D 4M52G7D 4M51G7D 4M54W7D 4M52G7D 4M54W7D
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max, Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power (dBm)	
GSM/GPRS	N/A	GMSK	824.2 - 848.8	0.167	22.24	0.275	24.39	243KGXW
EDGE	N/A	B-PSK	824.2 - 848.8	0.051	17.05	0.083	19.20	248KG7W
WCDMA	N/A	Spread Spectrum	826.4 - 846.6	0.091	19.61	0.150	21.76	4M16F9W
	******	OPSK	829.0 - 844.0	0.102	20.10	0.168	22.25	9M02G7D
	10 MHz	16QAM	829.0 - 844.0	0.086	19.36	0.141	21.51	9M04W7D
	7 100	QPSK.	826.5 - 846.5	0.106	20.26	0.174	22.41	4M54G7D
LTE Band 5	5 MHz	16QAM	826.5 - 846.5	0.082	19.13	0.134	21.28	4M52W7D
Main1	3 MHz	QPSK	825.5 - 847.5	0.099	19.94	0.162	22.09	2M71G7D
		16QAM	825.5 - 847.5	0.083	19.21	0.137	21.36	2M72W7D
	1.4 MHz	QPSK	824.7 - 848.3	0.095	19.77	0.155	21.92	1M11G7D
		16QAM	824.7 - 848.3	0.083	19.21	0.137	21.36	1M11W7D
	20 MHz	TI/2 8PSK	834.0 - 839.0	0.076	18.78	0.124	20.93	18M0G7D
		QPSK	834.0 - 839.0	0.074	18.66	0.121	20.81	19M0G7D
		16QAM	834.0 - 839.0	0.063	17.96	0.103	20.11	19M0W7D
	15 MHz	TI/2 8PSK	831.5 - 841.5	0.076	18.79	0.124	20.94	13M5G7D
		QPSK	831.5 - 841.5	0.076	18.81	0.125	20.96	14M2G7D
NR Band n5	Westerne	16QAM	831.5 - 841.5	0.062	17.92	0.102	20.07	14M2W7D
Maint	915,000,000	TI/2 8PSK	829.0 - 844.0	0.073	18.61	0.119	20.76	9M04G7D
	10 MHz	QPSK	829.0 - 844.0	0.074	18.71	0.122	20.86	9M34G7D
		16QAM	829.0 - 844.0	0.064	18.07	0.105	20.22	9M34W7D
		Tr/2 BPSK	826.5 - 846.5	0.075	18.74	0.123	20.89	4M52G7D
	5 MHz	QPSK:	826.5 - 846.5	0.073	18.62	0.119	20.77	4M51G7D
		16QAM	826.5 - 846.5	0.061	17.88	0.101	20.03	4M54W7D

Overview Table - Main1 Antenna

				El	RP	Ell	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	Emission Designator
	10 MHz	QPSK	829.0 - 844.0	0.035	15.46	0.058	17.61	9M02G7D
	TO IVII IZ	16QAM	829.0 - 844.0	0.029	14.64	0.048	16.79	9M03W7D
	5 MHz	QPSK	826.5 - 846.5	0.035	15.47	0.058	17.62	4M54G7D
LTE Band 5	2 IVITZ	16QAM	826.5 - 846.5	0.029	14.66	0.048	16.81	Designator 9M02G7D 9M03W7D
Sub	3 MHz	QPSK	825.5 - 847.5	0.035	15.47	0.058	17.62	2M71G7D
	3 IVIHZ	16QAM	825.5 - 847.5	0.030	14.71	0.049	16.86	2M72W7D
	1.4 MHz	QPSK	824.7 - 848.3	0.035	15.46	0.058	17.61	1M11G7D
		16QAM	824.7 - 848.3	0.028	14.54	0.047	16.69	1M12W7D
	20 MHz	TT/2 BPSK	834.0 - 839.0	0.044	16.45	0.072	18.60	18M0G7D
		QPSK	834.0 - 839.0	0.045	16.51	0.074	18.66	19M0G7D
		16QAM	834.0 - 839.0	0.036	15.51	0.058	17.66	19M0W7D
		π/2 BPSK	831.5 - 841.5	0.045	16.55	0.074	18.70	13M5G7D
	15 MHz	QPSK	831.5 - 841.5	0.045	16.50	0.073	18.65	14M2G7D
NR Band n5		16QAM	831.5 - 841.5	0.036	15.52	0.059	17.67	14M1W7D
Sub		π/2 BPSK	829.0 - 844.0	0.043	16.38	0.071	18.53	9M01G7D
	10 MHz	QPSK	829.0 - 844.0	0.043	16.35	0.071	18.50	9M32G7D
		16QAM	829.0 - 844.0	0.036	15.53	0.059	17.68	9M36W7D
		Π/2 BPSK	826.5 - 846.5	0.046	16.59	0.075	18.74	4M54G7D
	5 MHz	QPSK	826.5 - 846.5	0.042	16.19	0.068	18.34	4M52G7D
		16QAM	826.5 - 846.5	0.033	15.13	0.053	17.28	4M52W7D

Overview Table - Sub Antenna

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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 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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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Sony Portable Handset FCC ID: PY7-84558E**. 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.: 01443, 02904, 02227

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR FR1, 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5 and 6 GHz), 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 0.621 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 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 Main1tain 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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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Maridiacturer	Wiodei	Description	Cai Date	Cai iiilei vai	Cai Due	Serial Nulliber
-	AP1-002	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	AP1-001
	ETS-001	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	ETS-001
-	ETS-002	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	ETS-002
-	LTx1	Licensed Transmitter Cable Set	1/12/2023	Annual	1/12/2024	LTx1
-	LTx2	Licensed Transmitter Cable Set	1/12/2023	Annual	1/12/2024	LTx2
-	LTx3	Licensed Transmitter Cable Set	1/12/2023	Annual	1/12/2024	LTx3
-	LTx4	Licensed Transmitter Cable Set	1/12/2023	Annual	1/12/2024	LTx4
-	LTx5	Licensed Transmitter Cable Set	1/12/2023	Annual	1/12/2024	LTx5
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6201525694
Emco	3115	Horn Antenna (1-18GHz)	8/8/2022	Biennial	8/8/2023	9704-5182
Espec	SCP-220	Environmental Chamber	5/25/2022	Annual	5/25/2023	OCPS5H0612K05
ETS Lindgren	3164-10	Quad Ridge Horn 400MHz - 10000MHz	5/10/2021	Biennial	5/10/2023	00166283
Keysight Technologies	N9030A	PXA Signal Analyzer	9/6/2022	Annual	9/6/2023	MY54490576
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		112347
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	8/25/2022	Annual	8/25/2023	100348
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	11/6/2022	Annual	11/6/2023	103187
Sunol Sciences	JB5	Bi-Log Antenna (30M - 5GHz)	8/30/2022	Biennial	8/30/2024	A051107

Table 5-1. Test Equipment

Notes:

- 1. 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.
- 2. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz
G = 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 MHz
W = 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

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

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

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	Section 7.2
CTEL	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
CONDUCTED	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	≥ 43 + 10 log (P[Watts]) dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
8	Frequency Stability	2.1055, 22.355	The carrier frequency of the transmitter must be maintained within the 2.5ppm	PASS	Section 7.8
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.6
RADI	Radiated Spurious Emissions	2.1053, 22.917(a)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.7

Table 7-1. Summary of Test Results

Notes:

- 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 Main1tain 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 v1.1.

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7.2 Conducted Output Power Data

Test Overview

All emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, 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.

Test Procedure Used

ANSI C63,26-2015 - Section 5.2

Test Settings

- 1. Detector = RMS
- 2. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 3. Sweep time = auto couple
- 4. The trace was allowed to stabilize.
- 5. 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 7-1. Test Instrument & Measurement Setup

Test Notes

- 1. Conducted power measurements were evaluated using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 2. All other conducted power measurements are contained in the RF exposure report for this filing.

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Bandwidth	Modulation	Modulation Channel		RB Size/Offset	Conducted Power [dBm]
N		20450	829.0	1 / 49	23.64
Ę	QPSK	20525	836.5	1 / 0	23.68
10 MHz		20600	844.0	1 / 25	23.68
-	16-QAM	20450	829.0	1 / 25	22.92
	QPSK	20425	826.5	1/0	23.69
MHz		20525	836.5	1 / 12	23.69
2 ≤		20625	846.5	1 / 12	23.67
-7	16-QAM	20525	836.5	1 / 12	23.18
<u> </u>		20415	825.5	1 / 7	23.65
포	QPSK	20525	836.5	1 / 7	23.69
3 MHz		20635	847.5	1 / 7	23.68
.,	16-QAM	20415	825.5	1 / 7	22.99
2		20407	824.7	1/0	23.63
Ĭ	QPSK	20525	836.5	1/3	23.68
1.4 MHz		20643	848.3	1/0	23.62
-	16-QAM	20407	824.7	1/0	22.82

Table 7-2. Conducted Power Output Data (LTE Band 5 Sub)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		166800	834.0	1 / 53	24.01
	π/2 BPSK	167300	836.5	1 / 53	24.09
20 MHz		167800	839.0	1 / 53	23.90
Σ		166800	834.0	1 / 53	23.96
20	QPSK	167300	836.5	1 / 53	23.99
		167800	839.0	1 / 53	23.98
	16-QAM	167800	839.0	1 / 53	22.92
		166300	831.5	1 / 39	24.04
	π/2 BPSK	167300	836.5	1 / 39	24.02
보		168300	841.5	1 / 20	24.00
15 MHz	QPSK	166300	831.5	1 / 39	23.96
15		167300	836.5	1 / 39	24.00
		168300	841.5	1 / 20	23.96
	16-QAM	168300	841.5	1 / 20	22.93
		165800	829.0	1 / 26	23.94
	π/2 BPSK	167300	836.5	1 / 13	23.89
보		168800	844.0	1 / 13	23.82
10 MHz		165800	829.0	1 / 26	23.92
10	QPSK	167300	836.5	1 / 13	23.84
		168800	844.0	1 / 13	23.81
	16-QAM	165800	829.0	1 / 26	23.07
		165300	826.5	1 / 18	24.07
	π/2 BPSK	167300	836.5	1 / 18	24.02
보		169300	846.5	1/6	24.04
5 MHz		165300	826.5	1 / 18	23.87
2	QPSK	167300	836.5	1 / 18	23.90
		169300	846.5	1/6	23.27
	16-QAM	165300	826.5	1 / 18	22.68

Table 7-3. Conducted Power Output Data (NR Band n5 Sub)

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			NR							LTE				NR	LTE	
NR Band	Antenna	NR Bandwidth [MHz]	NR Channel	NR Frequency [MHz]	Mod.	NR RB#/Offset	LTE Band	Antenna	LTE Bandwidth [MHz]	LTE Channel	LTE Frequency [MHz]	Mod.	LTE RB#/Offset	Conducted Power [dBm]	Conducted Power [dBm]	EN-DC Total Tx. Power [dBm]
					QPSK	100/0						QPSK	100/0	20.30	22.26	24.40
					QPSK	100/0						QPSK	1/50	17.99	23.42	24.51
n5	Main1	20	167300	836.5	QPSK	1/53	2	Main2	20	18900	1880	QPSK	100/0	20.30	22.31	24.43
					QPSK	1/53						QPSK	1/50	17.88	23.26	24.37
					16QAM	100/0						16QAM	1/50	20.33	22.61	24.63
					QPSK	100/0						QPSK	50/0	21.95	19.53	23.92
					QPSK	100/0						QPSK	1/25	20.34	20.22	23.29
n5	Main1	20	167300	836.5	QPSK	1/53	30	Main2	10	27710	2310	QPSK	50/0	21.88	19.40	23.82
					QPSK	1/53						QPSK	1/25	20.28	20.17	23.24
					16QAM	100/0						16QAM	50/0	22.64	18.35	24.01
					QPSK	100/0						QPSK	100/0	19.32	21.68	23.67
					QPSK	100/0						QPSK	1/50	16.81	22.68	23.68
n5	Sub	20	167300	836.5	QPSK	1/53	2	Main2	20	18900	1880	QPSK	100/0	19.24	21.65	23.62
					QPSK	1/53						QPSK	1/50	16.76	22.79	23.76
					16QAM	1/53						16QAM	1/50	19.20	21.92	23.78
					QPSK	100/0						QPSK	50/0	20.53	20.60	23.58
					QPSK	100/0						QPSK	1/25	19.21	21.68	23.63
n5	Sub	20	167300	836.5	QPSK	1/53	30	Main2	10	27710	2310	QPSK	50/0	20.29	20.60	23.46
					QPSK	1/53						QPSK	1/25	18.97	21.79	23.62
					16QAM	100/0						16QAM	1/25	20.45	21.05	23.77

Table 7-4. Conducted Power Output Data (EN-DC: NR Band n5)

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7.3 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 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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LTE Band 5 - Main1



Plot 7-1. Occupied Bandwidth Plot (LTE Band 5 - 10MHz QPSK - Full RB - Main1)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 5 - 10MHz 16-QAM - Full RB - Main1)

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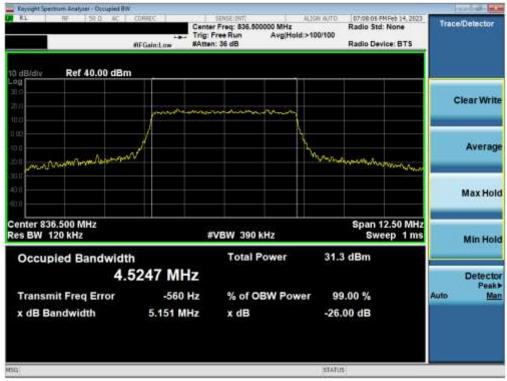
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Plot 7-3. Occupied Bandwidth Plot (LTE Band 5 - 5MHz QPSK - Full RB - Main1)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 5 - 5MHz 16-QAM - Full RB - Main1)

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Plot 7-5. Occupied Bandwidth Plot (LTE Band 5 - 3MHz QPSK - Full RB - Main1)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 5 - 3MHz 16-QAM - Full RB - Main1)

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Plot 7-7. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz QPSK - Full RB - Main1)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz 16-QAM - Full RB - Main1)

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LTE Band 5 - Sub



Plot 7-9. Occupied Bandwidth Plot (LTE Band 5 - 10MHz QPSK - Full RB - Sub)



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

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Plot 7-11. Occupied Bandwidth Plot (LTE Band 5 - 5MHz QPSK - Full RB - Sub)



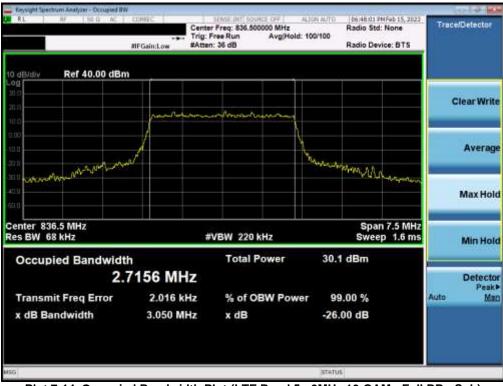
Plot 7-12. Occupied Bandwidth Plot (LTE Band 5 - 5MHz 16-QAM - Full RB - Sub)

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Plot 7-13. Occupied Bandwidth Plot (LTE Band 5 - 3MHz QPSK - Full RB - Sub)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 5 - 3MHz 16-QAM - Full RB - Sub)

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Plot 7-15. Occupied Bandwidth Plot (LTE Band 5 - 1.4MHz QPSK - Full RB - Sub)



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

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NR Band n5 - Main1



Plot 7-17. Occupied Bandwidth Plot (NR Band n5 - 20MHz π/2 BPSK - Full RB - Main1)



Plot 7-18. Occupied Bandwidth Plot (NR Band n5 - 20MHz QPSK - Full RB - Main1)

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Plot 7-19. Occupied Bandwidth Plot (NR Band n5 - 20MHz 16-QAM - Full RB - Main1)



Plot 7-20. Occupied Bandwidth Plot (NR Band n5 - 15MHz π/2 BPSK - Full RB - Main1)

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Plot 7-21. Occupied Bandwidth Plot (NR Band n5 - 15MHz QPSK - Full RB - Main1)



Plot 7-22. Occupied Bandwidth Plot (NR Band n5 - 15MHz 16-QAM - Full RB - Main1)

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Plot 7-23. Occupied Bandwidth Plot (NR Band n5 - 10MHz π/2 BPSK - Full RB - Main1)



Plot 7-24. Occupied Bandwidth Plot (NR Band n5 - 10MHz QPSK - Full RB - Main1)

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Plot 7-25. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB - Main1)



Plot 7-26. Occupied Bandwidth Plot (NR Band n5 - 5MHz π/2 BPSK - Full RB - Main1)

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Plot 7-27. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB - Main1)



Plot 7-28. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB - Main1)

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NR Band n5 - Sub



Plot 7-29. Occupied Bandwidth Plot (NR Band n5 - 20MHz π/2 BPSK - Full RB - Sub)



Plot 7-30. Occupied Bandwidth Plot (NR Band n5 - 20MHz QPSK - Full RB - Sub)

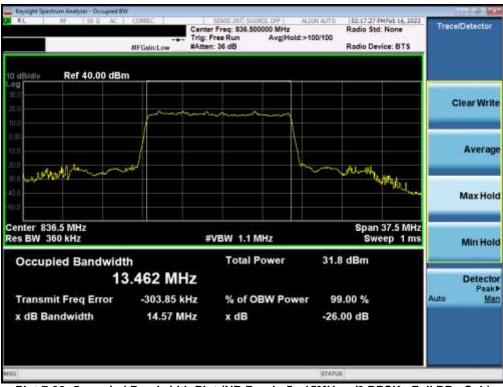
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Plot 7-31. Occupied Bandwidth Plot (NR Band n5 - 20MHz 16-QAM - Full RB - Sub)



Plot 7-32. Occupied Bandwidth Plot (NR Band n5 - 15MHz π/2 BPSK - Full RB - Sub)

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Plot 7-33. Occupied Bandwidth Plot (NR Band n5 - 15MHz QPSK - Full RB - Sub)



Plot 7-34. Occupied Bandwidth Plot (NR Band n5 - 15MHz 16-QAM - Full RB - Sub)

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Plot 7-35. Occupied Bandwidth Plot (NR Band n5 - 10MHz π/2 BPSK - Full RB - Sub)



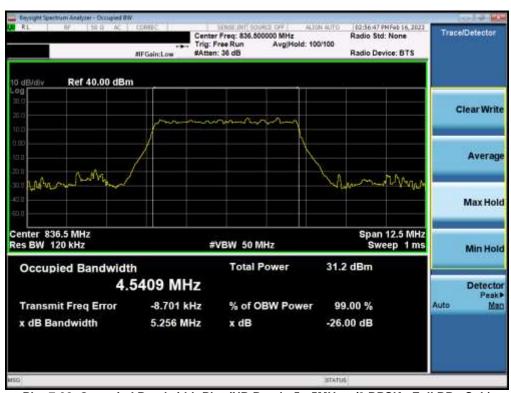
Plot 7-36. Occupied Bandwidth Plot (NR Band n5 - 10MHz QPSK - Full RB - Sub)

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Plot 7-37. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB - Sub)



Plot 7-38. Occupied Bandwidth Plot (NR Band n5 - 5MHz π /2 BPSK - Full RB - Sub)

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Plot 7-39. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB - Sub)



Plot 7-40. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB - Sub)

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GPRS Cell - Main1



Plot 7-41. Occupied Bandwidth Plot (GPRS, Ch. 190 - Main1)



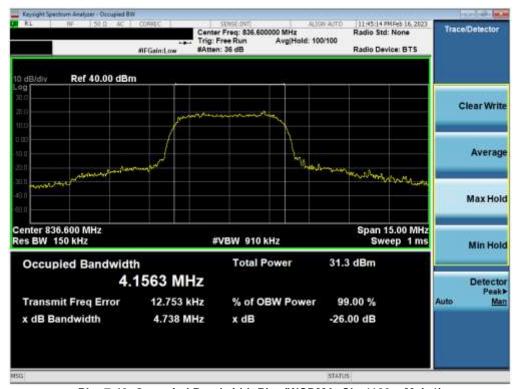
Plot 7-42. Occupied Bandwidth Plot (EDGE, Ch. 190 - Main1)

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WCDMA Cell - Main1



Plot 7-43. Occupied Bandwidth Plot (WCDMA, Ch. 4183 - Main1)

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7.4 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
- 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 7-3. Test Instrument & Measurement Setup

Test Notes

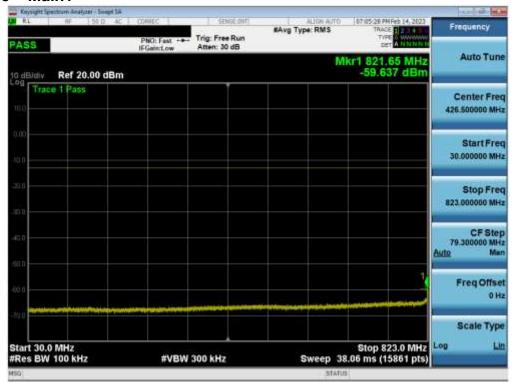
- 1. Per Part 22, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at 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 emissions are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) 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.

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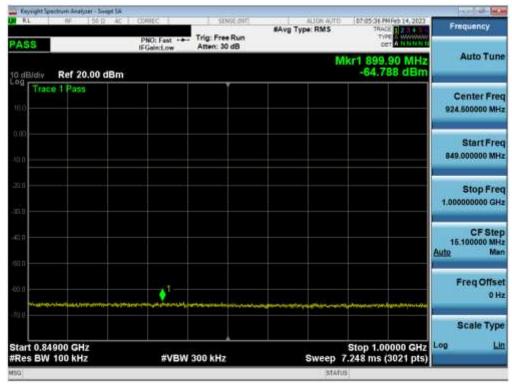
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LTE Band 5 - Main1



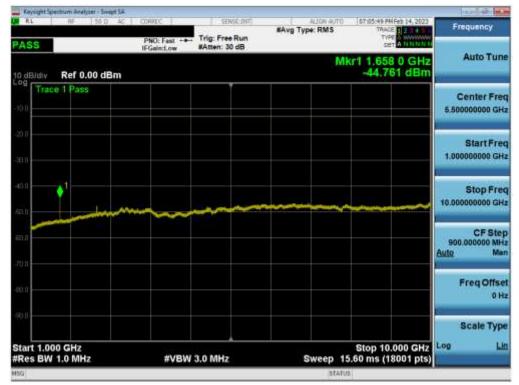
Plot 7-44. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel - Main1)



Plot 7-45. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel - Main1)

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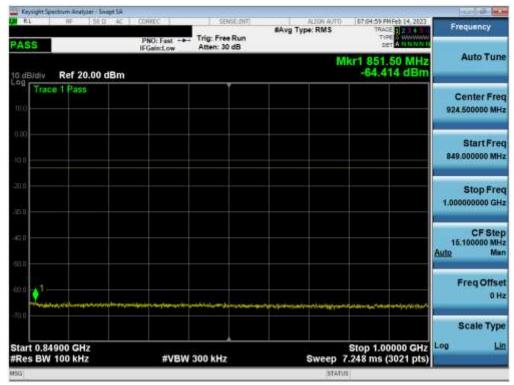
Plot 7-46. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel - Main1)



Plot 7-47. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Main1)

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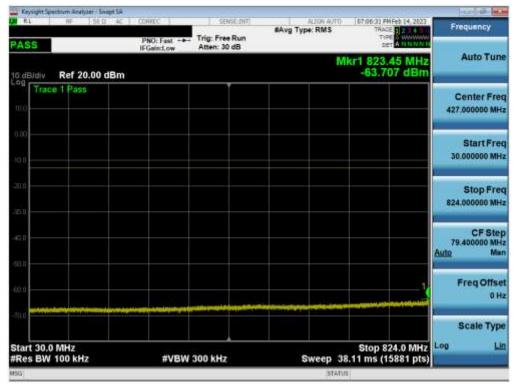
Plot 7-48. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Main1)



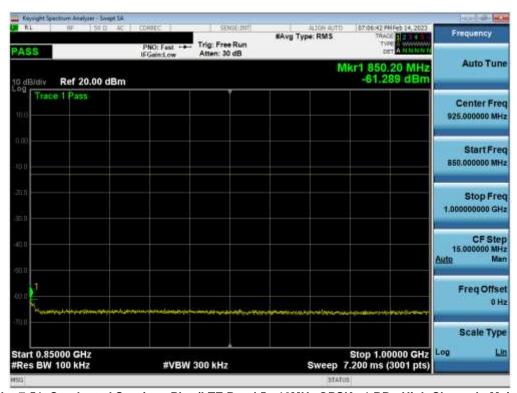
Plot 7-49. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Main1)

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Plot 7-50. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Main1)



Plot 7-51. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Main1)

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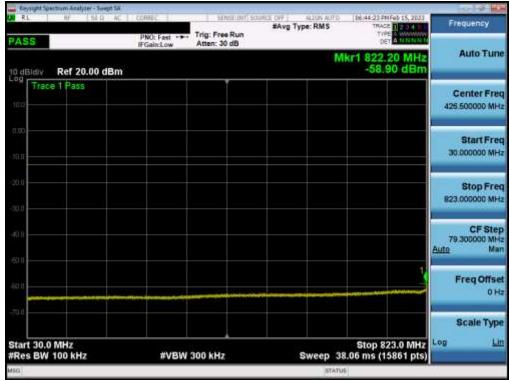


Plot 7-52. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Main1)

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LTE Band 5 - Sub



Plot 7-53. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel - Sub)



Plot 7-54. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Low Channel - Sub)

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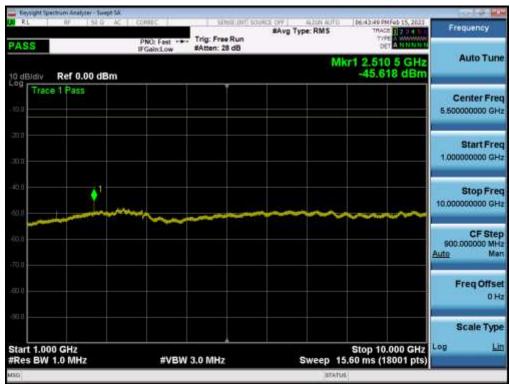
Plot 7-56. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Sub)

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Plot 7-57. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Sub)



Plot 7-58. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - Mid Channel - Sub)

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Plot 7-59. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Sub)



Plot 7-60. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Sub)

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Plot 7-61. Conducted Spurious Plot (LTE Band 5 - 10MHz QPSK - 1 RB - High Channel - Sub)

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NR Band n5 - Main1



Plot 7-62. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Main1)



Plot 7-63. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Main1)

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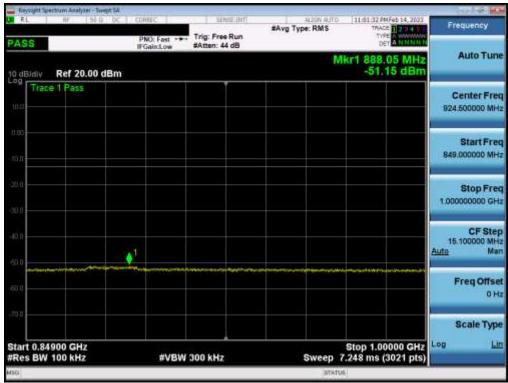
Plot 7-64. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Main1)



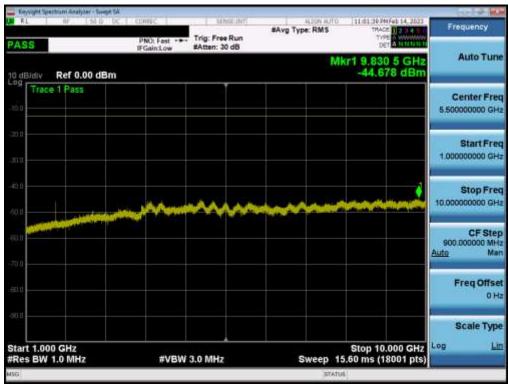
Plot 7-65. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Main1)

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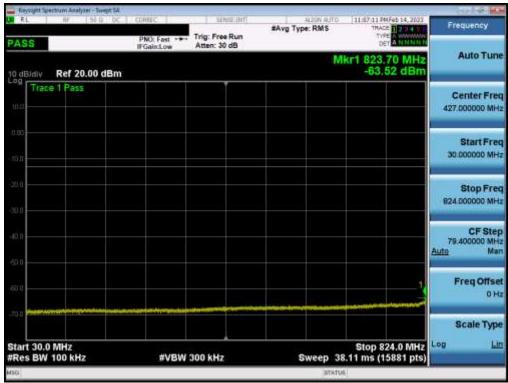
Plot 7-66. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Main1)



Plot 7-67. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Main1)

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Plot 7-68. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Main1)



Plot 7-69. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Main1)

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Plot 7-70. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Main1)

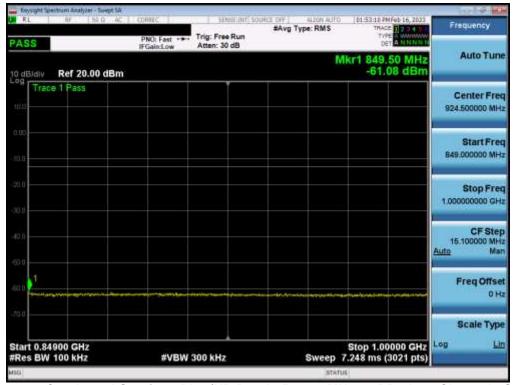
FCC ID: PY7-84558E	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 - Sub



Plot 7-71. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Sub)



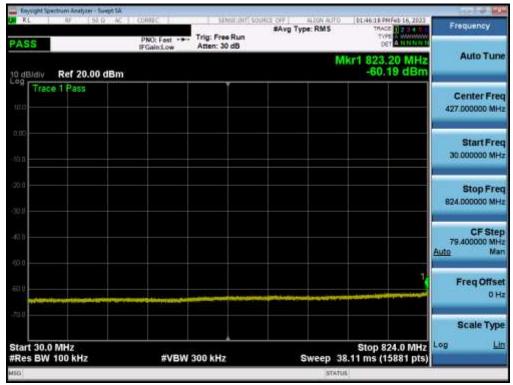
Plot 7-72. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Sub)

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Plot 7-73. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Sub)



Plot 7-74. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Sub)

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Plot 7-75. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Sub)



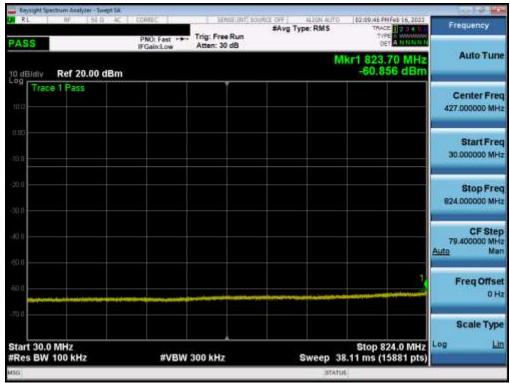
Plot 7-76. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Sub)

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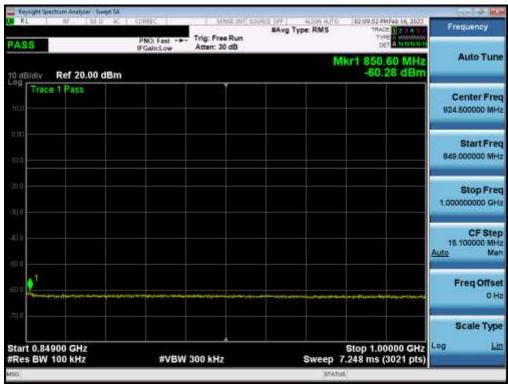
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Plot 7-77. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Sub)



Plot 7-78. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Sub)

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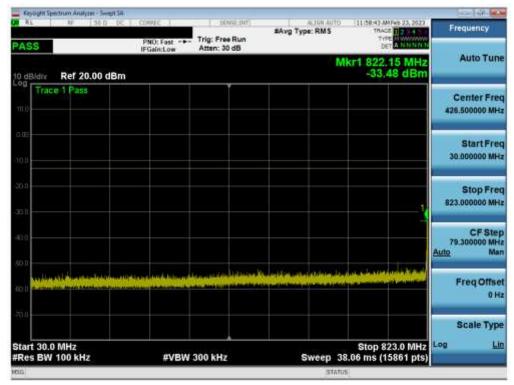


Plot 7-79. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel - Sub)

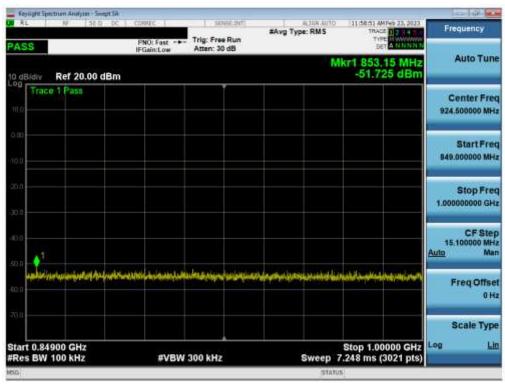
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GSM/GPRS Cell - Main1



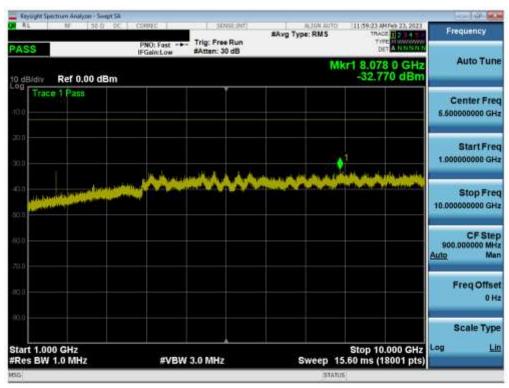
Plot 7-80. Conducted Spurious Plot (GPRS Ch. 128 - Main1)



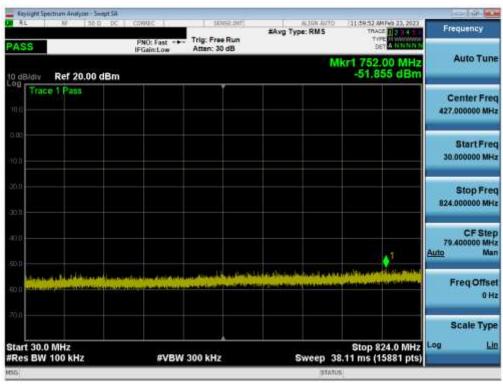
Plot 7-81. Conducted Spurious Plot (GPRS Ch. 128 - Main1)

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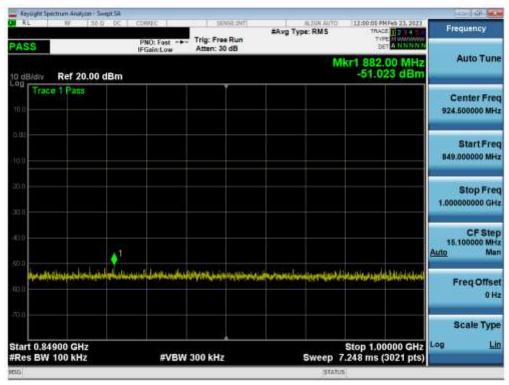
Plot 7-82. Conducted Spurious Plot (GPRS Ch. 128 - Main1)



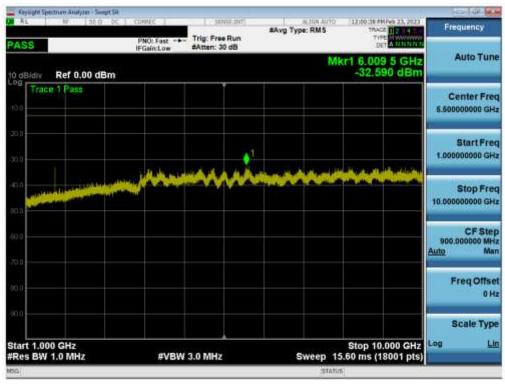
Plot 7-83. Conducted Spurious Plot (GPRS Ch. 190 - Main1)

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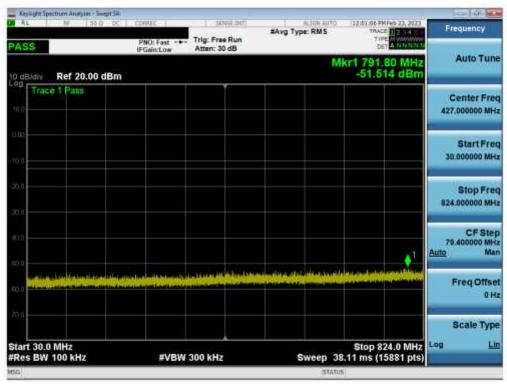
Plot 7-84. Conducted Spurious Plot (GPRS Ch. 190 - Main1)



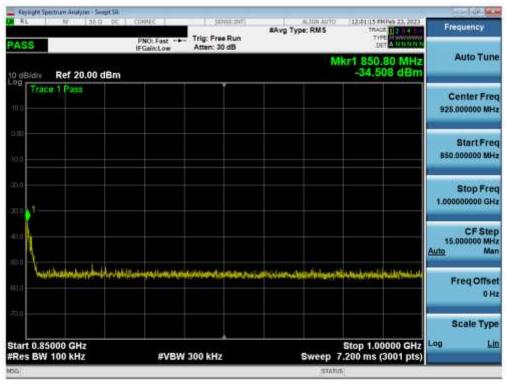
Plot 7-85. Conducted Spurious Plot (GPRS Ch. 190 - Main1)

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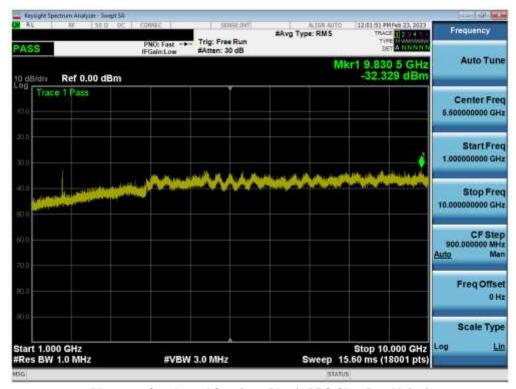
Plot 7-86. Conducted Spurious Plot (GPRS Ch. 251 - Main1)



Plot 7-87. Conducted Spurious Plot (GPRS Ch. 251 - Main1)

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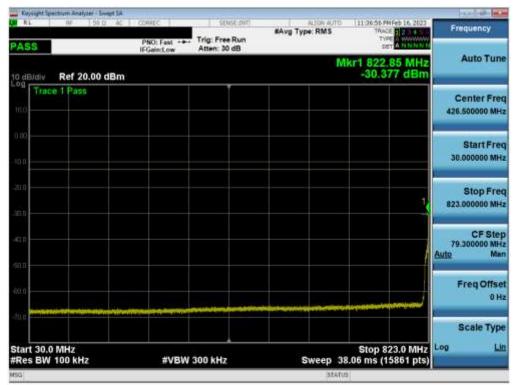


Plot 7-88. Conducted Spurious Plot (GPRS Ch. 251 - Main1)

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WCDMA Cell - Main1



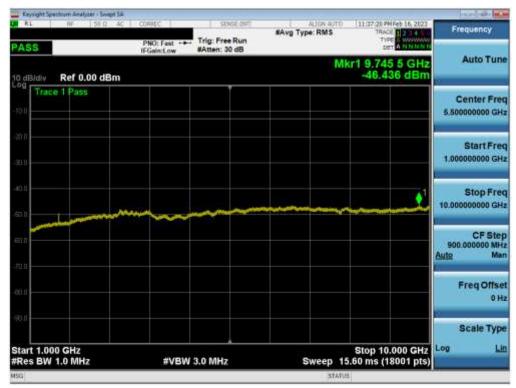
Plot 7-89. Conducted Spurious Plot (WCDMA Ch. 4132 - Main1)



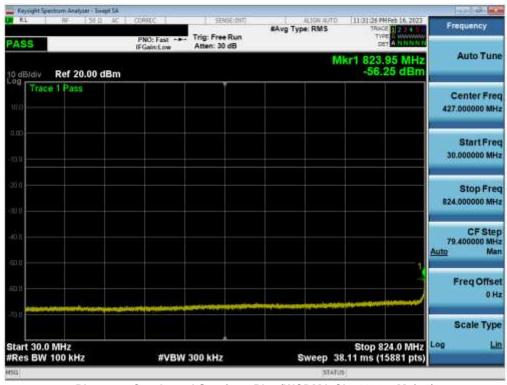
Plot 7-90. Conducted Spurious Plot (WCDMA Ch. 4132 - Main1)

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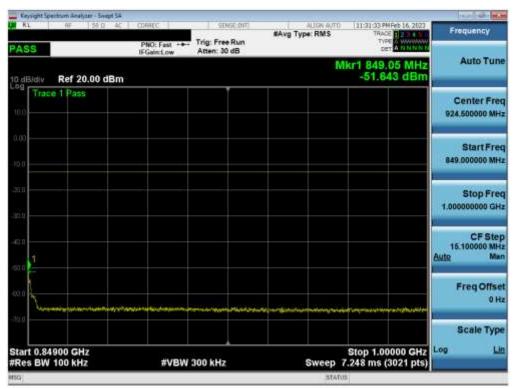
Plot 7-91. Conducted Spurious Plot (WCDMA Ch. 4132 - Main1)



Plot 7-92. Conducted Spurious Plot (WCDMA Ch. 4183 - Main1)

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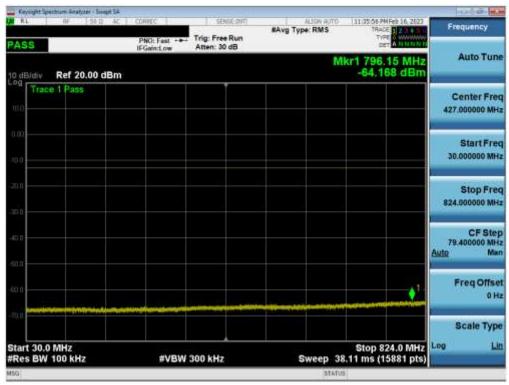
Plot 7-93. Conducted Spurious Plot (WCDMA Ch. 4183 - Main1)



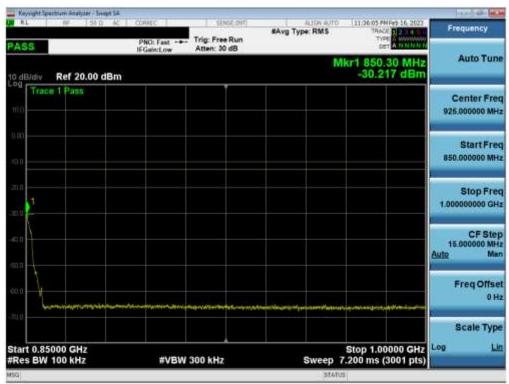
Plot 7-94. Conducted Spurious Plot (WCDMA Ch. 4183 - Main1)

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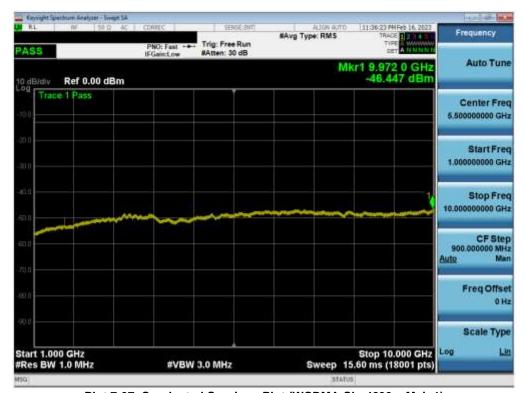
Plot 7-95. Conducted Spurious Plot (WCDMA Ch. 4233 - Main1)



Plot 7-96. Conducted Spurious Plot (WCDMA Ch. 4233 - Main1)

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Plot 7-97. Conducted Spurious Plot (WCDMA Ch. 4233 - Main1)

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7.5 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 to capture all out of band emissions near the band edge.
- 3. RBW ≥ 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 7-4. Test Instrument & Measurement Setup

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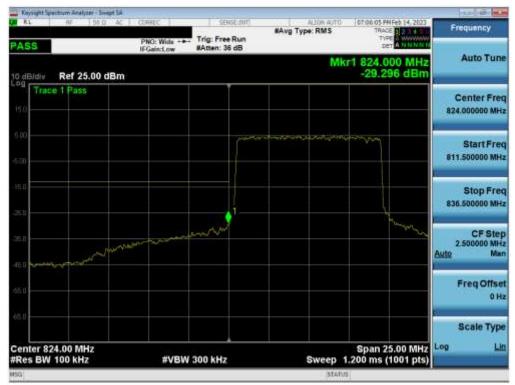
Test Notes

- 1. Per 22.917(b), 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 emissions are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) 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.

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LTE Band 5 - Main1



Plot 7-98. Lower Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Main1)



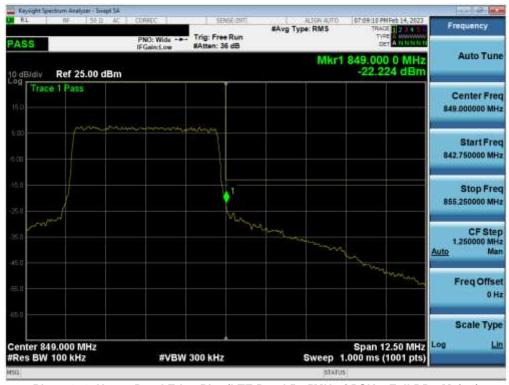
Plot 7-99. Upper Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Main1)

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Plot 7-100. Lower Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Main1)



Plot 7-101. Upper Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Main1)

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Plot 7-102. Lower Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Main1)



Plot 7-103. Upper Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Main1)

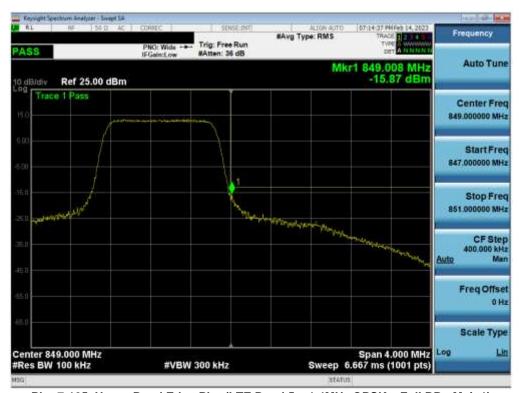
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Plot 7-104. Lower Band Edge Plot (LTE Band 5 - 1.4MHz QPSK - Full RB - Main1)



Plot 7-105. Upper Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB - Main1)

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LTE Band 5 - Sub



Plot 7-106. Lower Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Sub)



Plot 7-107. Upper Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Sub)

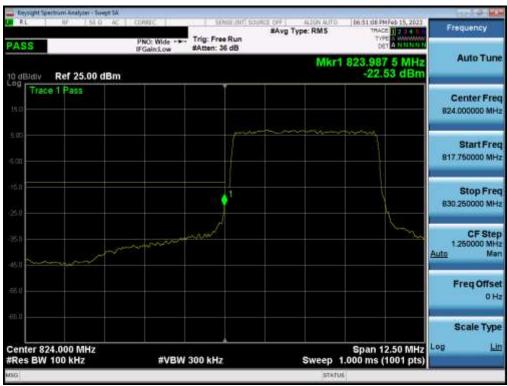
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Plot 7-108. Lower Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Sub)



Plot 7-109. Upper Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Sub)

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Plot 7-110. Lower Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Sub)



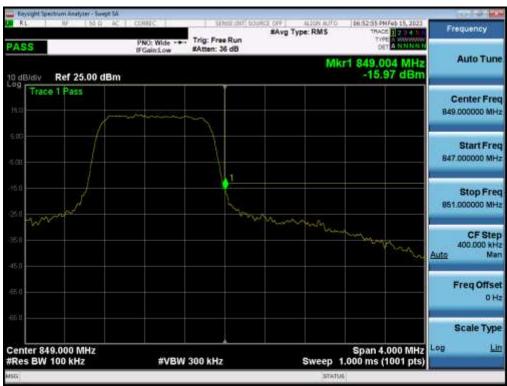
Plot 7-111. Upper Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Sub)

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Plot 7-112. Lower Band Edge Plot (LTE Band 5 - 1.4MHz QPSK - Full RB - Sub)



Plot 7-113. Upper Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB - Sub)

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NR Band n5 - Main1



Plot 7-114. Lower Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Main1)



Plot 7-115. Upper Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Main1)

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Plot 7-116. Lower Band Edge Plot (NR Band n5 - 15.0MHz - Full RB - Main1)



Plot 7-117. Upper Band Edge Plot (NR Band n5 - 15.0MHz - Full RB - Main1)

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Plot 7-118. Lower Band Edge Plot (NR Band n5 - 10.0MHz - Full RB - Main1)



Plot 7-119. Upper Band Edge Plot (NR Band n5 - 10.0MHz - Full RB - Main1)

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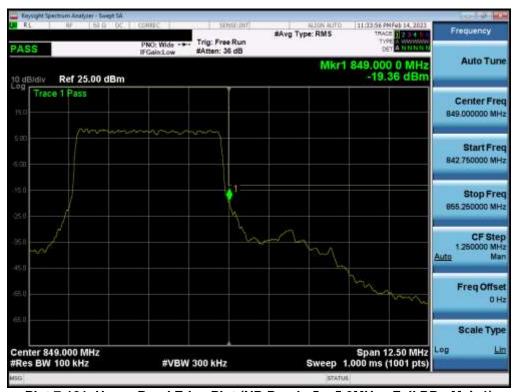
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Plot 7-120. Lower Band Edge Plot (NR Band n5 - 5.0MHz - Full RB - Main1)



Plot 7-121. Upper Band Edge Plot (NR Band n5 - 5.0MHz - Full RB - Main1)

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NR Band n5 - Sub



Plot 7-122. Lower Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Sub)



Plot 7-123. Upper Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Sub)

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Plot 7-124. Lower Band Edge Plot (NR Band n5 - 15.0MHz - Full RB - Sub)



Plot 7-125. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB - Sub)

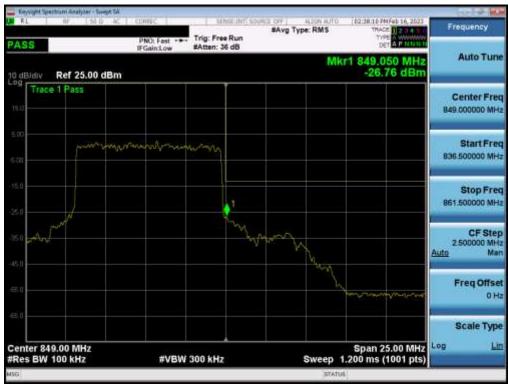
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Plot 7-126. Lower Band Edge Plot (NR Band n5 - 10.0MHz - Full RB - Sub)



Plot 7-127. Upper Band Edge Plot (NR Band n5 - 10.0MHz - Full RB - Sub)

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Plot 7-128. Lower Band Edge Plot (NR Band n5 - 5.0MHz - Full RB - Sub)



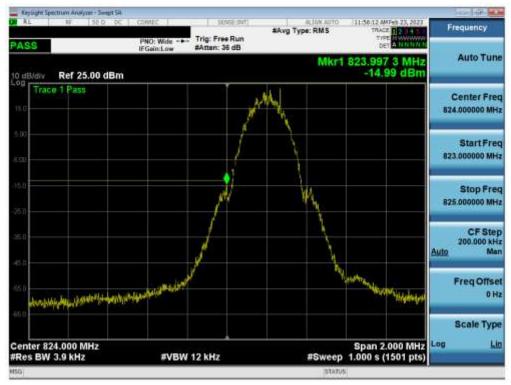
Plot 7-129. Upper Band Edge Plot (NR Band n5 - 5.0MHz - Full RB - Sub)

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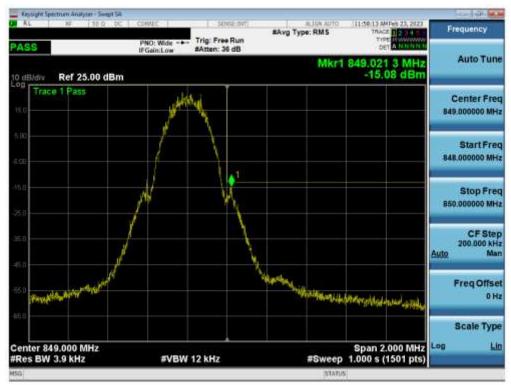
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GSM/GPRS Cell - Main1



Plot 7-130. Lower Band Edge Plot (GPRS Cell - Ch. 128 - Main1)



Plot 7-131. Upper Band Edge Plot (GPRS Cell - Ch. 251 - Main1)

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WCDMA Cell - Main1



Plot 7-132. Lower Band Edge Plot (WCDMA Cell - Ch. 4132 - Main1)



Plot 7-133. Upper Band Edge Plot (WCDMA Cell - Ch. 4233 - Main1)

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7.6 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 doMain1 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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The EUT and measurement equipment were set up as shown in the diagram below.

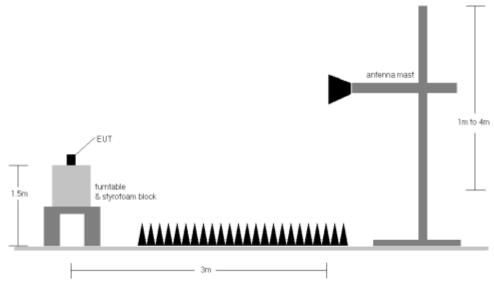


Figure 7-5. Radiated Test Setup < 1GHz

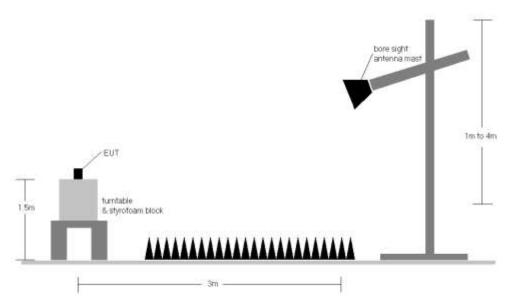


Figure 7-6. Radiated Test Setup > 1GHz

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".

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- 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.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) 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.

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Bandwidth	Mod.	Frequency [Mrts]	Ant. Pol. [HV]	Antenna Height [cm]	Terntable Azimuth (degree)	Ant. Gain jahij	Rth Size/Offset	Substitute Level (dilm)	ERP (ABIN)	ERP [Wets]	ERP Limit [dBm]	Maryin (d0)	t 160° (attout	EIRP [Warsi]	(dSm)	Margin (dil)
	QPSK	829.00	.y	345	253	6.10	17/49	15.63	19.58	0.091	31.45	-18.87	25.73	0.149	40.61	-18.88
20.000	QPSK	836.50		144	264	6.18	1/49	15.66	19.69	0.093	38.45	-18.7E	21.84	0.153	49.66	-18.77
10 MHz	QPSK	844.00	- W	152	268	6.36	1725	15.89	20.10	0.102	38.45	:18.35	22.25	0.168	49.61	-19.36
	16-DAM	844.00	V	152	268	6.36	1/25	15.15	19.36	0.086	38.45	-19.05	21.51	0.741	40.61	-15:10
1	QPSK	829 00		141	253	6.07	1/0	15.80	19.73	0.094	38.45	-18.72	21.88	2.154	49.61	-18.73
Unama said	QPSK	836.50	- V	144	264	6.18	17.12	15.57	19.60	0.001	38.45	-18.05	21.75	0.150	49.61	-18.86
5 MHz	QPSK	844.00	- V	152	268	6.38	17.12	16.03	20.26	0.106	38.45	-10.15	22.41	0.174	40.61	18.20
	16-QAM	836,50	- V	144	264	E 18	1/12	15.10	19 13	0.062	38.45	19.32	21.28	0.134	49.61	-19.33
	QP5K	829.00	. V	141	253	6.06	177	15.61	19.62	0.090	38.45	-10.93	21.67	0.147	49.65	-18.94
2000	QPSK	836.50	-19/	144	264	6.18	1/7	15.59	19.62	6.092	38.45	-18.93	25.77	0.150	49.61	-18.84
3 MHz	QP9K	844.00	V	152	268	6.39	1/0	15.70	19.94	8.099	38.45	-18.51	22.09	0.162	40.61	-18.52
	16-QAM	836.50	. 4	144	264	5.18	1/7	15.18	19.21	0.083	38.45	-19.24	21.36	₾ 137	49.61	-19.25
1	QPSK	829.00	- V	141	253	6.09	173	15.68	19.61	0.001	38.45	-18.84	21.76	0.150	49.65	-18.84
2000000	QP5K	836.50	V	144	264	5.18	1/2	15.59	19.62	0.092	38.45	-18.83	21.77	0.150	40.61	18.84
1.4 MHz	QPSK	844 00	W	152	268	6.40	1/3	15.52	19.77	9.095	38.45	-18.69	21.92	E 156	49.51	-18.69
	16-QAM	836.50	V	144	264	6.18	1/3	15.18	19.21	0.083	38.45	-19.25	21.36	0.137	40.61	-19.25
10 MHz	QPSK (WCP)	844.00	V	192	316	6.36	1726	9.18	13.39	0.022	38.45	-25.06	15.51	0.030	49.61	-25 87

Table 7-5. ERP Data (LTE Band 5 - Main1)

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	QPSK	829.00	Н	137	245	6.70	1/0	10.81	15.36	0.034	38.45	-23.09	17.51	0.056	40.61	-23.10
10 MHz	QPSK	836.50	Н	124	242	6.73	1 / 25	10.88	15.46	0.035	38.45	-22.99	17.61	0.058	40.61	-23.00
10 WIFIZ	QPSK	844.00	Н	126	101	6.76	1 / 25	9.91	14.52	0.028	38.45	-23.93	16.67	0.046	40.61	-23.94
	16-QAM	829.00	Н	137	245	6.70	1/0	10.09	14.64	0.029	38.45	-23.81	16.79	0.048	40.61	-23.82
	QPSK	829.00	Н	137	245	6.70	1/0	10.86	15.41	0.035	38.45	-23.04	17.56	0.057	40.61	-23.05
5 MHz	QPSK	836.50	Н	124	242	6.73	1 / 12	10.89	15.47	0.035	38.45	-22.98	17.62	0.058	40.61	-22.99
3 MITZ	QPSK	844.00	Н	126	101	6.76	1 / 12	9.90	14.51	0.028	38.45	-23.94	16.66	0.046	40.61	-23.95
	16-QAM	836.50	Н	124	242	6.73	1 / 12	10.08	14.66	0.029	38.45	-23.79	16.81	0.048	40.61	-23.80
	QPSK	829.00	Н	137	245	6.70	1/7	10.82	15.37	0.034	38.45	-23.08	17.52	0.057	40.61	-23.09
3 MHz	QPSK	836.50	Н	124	242	6.73	1/7	10.89	15.47	0.035	38.45	-22.98	17.62	0.058	40.61	-22.99
3 WITIZ	QPSK	844.00	Н	126	101	6.76	1/7	9.91	14.52	0.028	38.45	-23.93	16.67	0.046	40.61	-23.94
	16-QAM	829.00	Н	137	245	6.70	1/7	10.16	14.71	0.030	38.45	-23.74	16.86	0.049	40.61	-23.75
	QPSK	829.00	Н	137	245	6.70	1/0	10.80	15.35	0.034	38.45	-23.10	17.50	0.056	40.61	-23.10
1.4 MHz	QPSK	836.50	Н	124	242	6.73	1/3	10.88	15.46	0.035	38.45	-22.99	17.61	0.058	40.61	-23.00
1.4 WITZ	QPSK	844.00	Н	126	101	6.76	1/0	9.85	14.46	0.028	38.45	-23.99	16.61	0.046	40.61	-24.00
	16-QAM	829.00	Н	137	245	6.70	1/0	9.99	14.54	0.028	38.45	-23.91	16.69	0.047	40.61	-23.92
10 MHz	QPSK (WCP)	836.50	Н	108	96	6.73	1 / 25	6.22	10.80	0.012	38.45	-27.65	12.95	0.020	40.61	-27.66

Table 7-6. ERP Data (LTE Band 5 - Sub)

Bandwidth	Mod.	Frequency [Mitr]	Ant. Pol.	Antenna Height [cm]	Torntable Azimuth [degree]	Ant. Gain [dbi]	RES Size/Offset	Schelltute Level [d0m]	ERP MSwj	ERP [Wats]	ERP Limit [dibin]	Margin (d8)	EMP (diline)	EIRP	EIRP Limit [dibn]	Margin [dil]
	TI/2.5PSK	834.00	- W	140	256	6.15	1753	14.69	18.69	0.074	38,45	-19.7E	20.84	0.121	49.51	-19.75
	THE BPSK	838.50	V	143	258	6.18	1./26	14.69	18.72	0.074	38.45	-19.73	20.87	0.122	40.61	-19.74
	TH/2 BPSK	839.00	- 7	146	268	6.30	1/26	14.63	18.78	0.076	30.45	-19.67	20.93	0.124	40.61	-19.67
20 MHz	QPSK	834.00	- V	140	256	6.16	1753	14.59	18.69	0.072	38.45	-19.86	20.74	0.119	40.51	-19.86
Samuel Control	QPSK	835.50		143	258	£18	1/26	14.43	18.51	0.071	38.45	-19.94	20.66	0.116	40.61	-19.95
	QPSK	831-00	V	146	268	6.30	1./26	14.51	18.66	0.074	38.45	-19.79	20.81	0.121	40.61	-19.79
	16-QAM	839.00	- W	146	258	5.30	1/26	13.81	17.96	0.063	35.45	-20.49	20.11	0.103	49.51	20.49
6	TO J. DPSK	831.50	V	140	256	6.13	1/20	14.82	18.79	6.076	38.45	-19.66	20.94	0.124	40.61	19.66
	mQ BPSK	836.50	V	143	258	6.18	1/20	14.55	18.68	0.072	38.45	-19.87	20.73	0.118	48.61	-19.88
	miz brok	841.50	V	146	268	6.33	1/29	14.57	18.75	0.075	38.45	19.70	20.90	0.123	40.61	-19.70
15 MHz	QPSK	831.50	V	140	256	6.13	1/20	14.84	18.81	0.076	38.45	-19.64	20.96	6.125	40.61	-19.64
1000000000	QPSK	836.50	V	143	258	6.18	1 / 20	14.60	18.62	0.073	30.45	-19.03	20.77	0.120	40.61	-19.03
1	QPSK	841.50	V	146	268	6.33	1739	14 30	18.48	0.070	38.46	19.97	20.63	0.116	45.61	-19.98
	16-QAM	841.50	- V	146	258	6.33	1/39	13.74	17.92	€ 062	38.45	-20.53	20.07	0.102	49.6t	-20.53
	TIVE SPEK	829.00	- V	140	256	E.10	1/38	14.56	18.61	0.073	38.45	-19.84	20.76	0.119	49.61	-19.65
	mg ppsk	835.50	V	143	258	6.18	1726	14.45	18.48	8.679	38.45	-19.97	20.63	0.116	40.61	-19.98
WAY W	TH/2 BPSM	844.00	. 4	145	266	6.36	17.26	14.35	18.55	0.072	38.45	-19.96	20.70	0.118	40.61	-19.90
10 MHz	QPSK	829.00	V	140	256	6.10	1738	14.76	18.71	0.074	38.45	-19.74	20.85	0.122	49.6t	-19.75
- Contract of the Contract of	QPSK	836.50	7.9	143	258	6.18	1/26	14:34	18.37	0.069	38.45	-20.08	20.52	0.113	40.61	-20.09
	QPSK.	844.00	:.V	146	268	6.36	1726	14.22	18.42	0:070	38.45	-20.03	20.57	0.114	40.61	-20.03
	16-QAM	836.50	W	143	258	5.18	1726	14.04	18-07	0.064	38.45	-20.38	29.22	0.105	46.61	-20.39
	11/2 (PSK	829 00	V	140	258	6.07	176	14.82	18.74	0.075	30.45	-19.71	20.89	0.123	40.61	-19.71
	m/2 899K	836.50	¥	143	758	6.18	17.12	14.50	18 53	0.071	38.45	-t9.92	20.61	0.117	40.61	-19.93
constant B	Tr2 6P5K1	844.90	V	146	268	6.39	17.6	14.46	18.69	9.974	28.46	-19.76	20.84	0.121	49.61	-19.76
5 MHz	QPSK	829.00	V	140	256	6.07	1/6	14.70	18.62	0.073	38.45	-19.83	20.77	0.119	40.6t	-19.83
	QPSK	836.50	::V	143	258	6.18	1/32	14.30	18.42	0.069	38.45	-20.03	20.57	0.114	40.61	-20.04
	QPSK	644.00	V	146	268	6.00	1/6	13.92	18.16	0.065	38.46	-20.30	20.31	0.107	45.61	29.30
	16-QAM	836.50	V	143	258	6.18	1712	13.85	17.88	0.061	38.45	-20.57	20.63	0.101	40.61	-20.58
20 MHz	QPSK (WCP)	839.00	Н	208	290	6.80	1/53	10.81	15.46	0.035	38-45	-22.95	17.61	9.066	49.6t	-22.99

Table 7-7. ERP Data (NR Band n5 - Main1)

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Bandwidth	Mod.	Frequency [Miss]	Ant. Pol. [IVV]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dbi]	RES Size/Offset	Sobetitute Level [dSm]	ERP MENI	ERP [Wats]	ERP Limit [dBm]	Maryin (d8)	EMP (dEw)	EIRP	EIRP Limit [disn]	Margin MEI
	Tr2.5PSK :	834.00	- EH	199	280	6.65	1753	11.95	16.45	0.044	35,45	-22.00	18.62	0.072	49.51	-22.00
	THE DPSK	838.50	H	199	260	6.73	1.726	11.54	16.12	0.043	38.45	-22.33	18.27	6.067	49.61	-22.34
	TH/2 EPSK:	839.00	H	202	204	6.80	1726	11.79	-16-64	0.044	30.45	-22.01	18.59	0.072	40.61	-22.01
20 MHz	QPSK	834.00	H	199	200	6.65	1753	11.79	16.29	6.043	38.45	-22.3E	18.44	0.070	40.61	-22.16
100000	QPSK	835.50	эн	199	200	6.73	1/26	11.50	16.08	0.041	38.45	-22:37	18.23	0.067	40.61	-22.3B
1	QPSK	839.00	- H	202	204	6.00	1./26	11.86	16.51	0.045	38.45	-21.94	18.66	0.074	40.61	-21.94
	16-QAM	839.00	H	202	204	5.80	1/26	10.86	15.51	0.036	35.45	22.94	17.68	0.068	49,51	22.94
	TO J. DPSK	831.50	H	199	200	6.73	1/39	11.91	16.49	6.845	38.45	-21.97	18.64	0.073	49.61	-21.97
	TEQ 6PSK	836.50	H	199	200	6.73	t/39	11.47	16.05	0.040	38.45	-22.40	18:20	0.066	48.61	-22.41
	THE BROK	841.50	H	202	204	6.73	17.20	11.97	16.55	0.045	38.45	-21.91	18.70	0.074	40.61	21.91
15 MHz	QPSK	831.50	эн	199	200	6.73	1/39	11.71	16.29	0.043	38.45	-22.15	18.44	0.070	40.61	-22.17
100000000	QPSK	836.50	H	199	200	6.73	17/39	11.51	16.09	0.041	30.45	-22.36	18.24	0.067	40.61	-22.37
	QPSK	841.50	H	202	204	6.73	1720	11.92	16.50	0.045	38.46	-21.95	10.65	0.013	40.61	-21.96
	16-QAM	841.50	:H	202	204	6.73	1 / 20	10.94	15.52	6.036	38.45	-22 93	17.67	1.059	49.6t	-22.93
1	TI/2 SPSK	829.00	H	199	200	6.70	1/26	11.83	16.38	0.043	39.45	-22.07	18.53	0.071	40.61	-22.08
	11/2 SPSK	835.50	H	199	200	6.73	1/13	11:34	15.91	0.039	38.45	-22.54	18.06	0.064	48.61	-22.54
way w	TH/2 6PSK	844.00	2H	202	204	6.76	1713	11.76	16.37	0.043	38.45	-22.09	18.62	0.071	40,61	-22.00
10 MHz	QPSK	829.00	38	199	200	6.70	17.26	11.70	16.25	0.042	38.45	-22.20	18.40	0.069	49.6t	22.21
	QPSK	836.50	. Н	199	200	6.73	1713	11.35	15.93	8.039	38.45	-22.52	18.08	0.064	40.61	-22.53
	QPSK.	844.00	: 3H	202	204	6.76	17/13	11.74	16.35	0:043	38.45	-22.10	18.50	0.071	40.61	-22.11
	16-QAM	829.00	- 11	199	200	6.70	1726	10.98	15.53	0.036	38.45	22.92	17.68	0.059	40.61	-22.93
	11/2 DPSK	829 00	H	199	200	6.67	17 ta	11.99	16.51	0.045	38.45	-21.94	18.66	0.073	40.61	-21.95
	m/2 899K	836.50	H	199	200	6.73	1 / 18	11.67	16.05	0.040	38.45	-22.40	18.20	0.065	40.61	-22.41
come I	TH/2 6PSK:	844.00	- 11	202	204	6.70	17.6	11.95	16.59	9.046	38.46	21.87	18.74	0.076	49.61	21.57
5 MHz	QPSK	829.00	H	199	200	6.67	1.618	11.67	16.19	0.042	38.45	-22.26	18.34	0.068	40.6t	-22.26
	QPSK	836.50	H	199	200	6.73	1.618	11.41	15.99	0.040	38.45	-22.46	18.14	0.005	40.61	-22.47
	QPSK	844.00	H	202	204	6.70	1/6	11.10	15.81	0.038	38.46	-22.64	17.96	0.063	40.61	22.64
	16-QAM	829.00	H	199	250	6.67	1718	10.61	15.13	0.033	38.45	-23.32	17.28	0.053	40.61	-23.32
20 MHz	QPSK (WCP)	839.00	Н	202	229	6.80	1/1	9.80	14.45	0.028	38.45	-24.00	16.60	0.006	40.61	-24.00

Table 7-8. ERP Data (NR Band n5 - Sub)

Frequency (MHz)	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dflos]	ERP [Wans]	ERP Limit [dElm]	Margin [dB]	EIRP [dBm]	EHRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GPRS850	V	165	257	17.58	6.13	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.90
836.60	GPRS850	V	148	255	18.21	6.18	22.24	0.167	38.45	-16.21	24.39	0.275	40.61	-15.22
848.80	GPRS850	V	155	257	17.91	6.41	22.17	0.165	38.45	-16.29	24.32	0.270	40.51	-16.29
836.60	EDGE850	V	148	256	13.02	6.18	17.05	0.051	38.45	-21.40	19.20	0.083	40.61	-21.41
836.60	GSM850 (WCP)	V	179	162	3.29	6.18	7.32	0.005	38.45	-31.13	9.47	0.009	40.61	31.14

Table 7-9. ERP Data (GPRS Cell - Main1)

Frequency (MHz)	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]		ERP (dbm)	ERP (Warn)	ERP Limit [dlim]	Margin (d8)	EIRP (dBm)	EIRP (Watts)	EIRP Limit [dBm]	Margin (dB)
826.40	WCDMA850	V	139	286	15.29	6.07	19.21	0.083	38.45	-19.24	21.36	D.137	40.61	-19.24
836.60	WCDMA850	V	141	281	15.58	6.18	19.61	0.091	38.45	-18.84	21.76	0.150	48.51	-18.85
846.60	WCDMA860	V	148	283	15.30	6.38	19.53	0.090	38.45	-18.92	21.68	0.147	40.61	-18.92
836.60	WCDMA850 (WCP)	V	181	107	5.70	6.18	9.73	0.009	38.45	-28.72	11.88	0.015	40.61	-26.73

Table 7-10. ERP Data (WCDMA Cell - Main1)

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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.

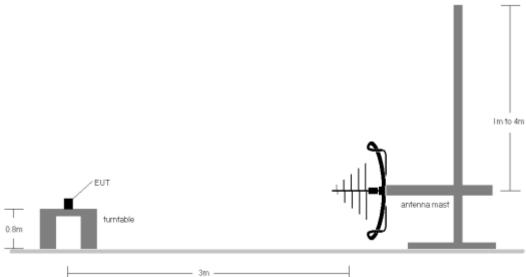


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

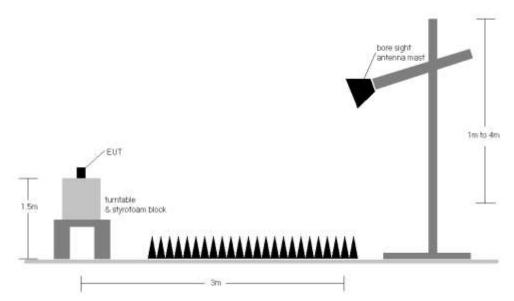


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

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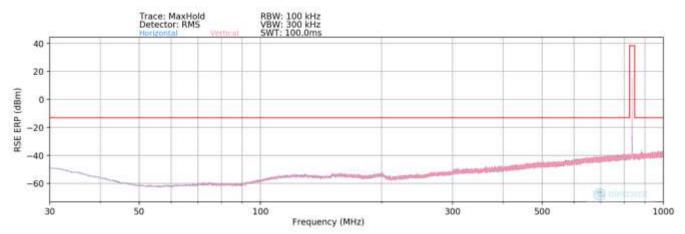
Test Notes

- 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.
 - c) ERP (dBm) = $E(dB\mu V/m) + 20logD 104.8 2.15$; 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.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) 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.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 5 - Main1

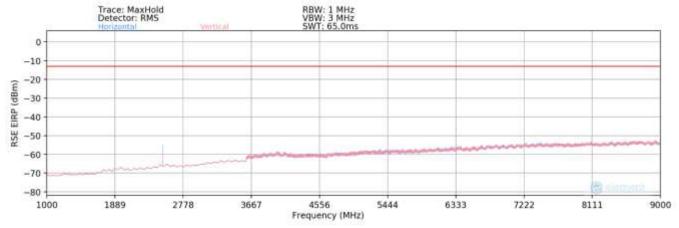


Plot 7-134. Radiated Spurious Plot 30MHz-1GHz (LTE Band 5 - Main1)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
581.00	Н	-	-	-96.83	27.14	37.31	-60.10	-13.00	-47.10

Table 7-11. Radiated Spurious Data 30MHz - 1GHz (LTE Band 5 - Mid Channel - Main1)



Plot 7-135. Radiated Spurious Plot 1-9GHz (LTE Band 5 - Main1)

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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	Н	123	49	-72.08	-10.02	24.90	-70.36	-13.00	-57.36
2487.00	Н	156	154	-60.23	-5.86	40.91	-54.35	-13.00	-41.35
3316.00	Н	-	-	-74.74	-3.69	28.57	-66.69	-13.00	-53.69
4145.00	Н	169	146	-74.70	-2.04	30.26	-64.99	-13.00	-51.99
4974.00	Н	-	-	-74.80	-1.42	30.78	-64.48	-13.00	-51.48
5803.00	Н	-	-	-75.24	0.23	31.99	-63.26	-13.00	-50.26
6632.00	Н	-	-	-75.06	2.02	33.96	-61.30	-13.00	-48.30

Table 7-12. Radiated Spurious Data (LTE Band 5 - Low Channel - Main1)

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	Н	202	341	-73.71	-9.64	23.65	-71.61	-13.00	-58.61
2509.50	Н	171	152	-61.89	-5.48	39.63	-55.63	-13.00	-42.63
3346.00	Н	-	-	-74.19	-3.65	29.16	-66.10	-13.00	-53.10
4182.50	Н	-	-	-74.39	-2.37	30.24	-65.02	-13.00	-52.02
5019.00	Н	-	-	-74.93	-1.35	30.72	-64.53	-13.00	-51.53

Table 7-13. Radiated Spurious Data (LTE Band 5 – Mid Channel – Main1)

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

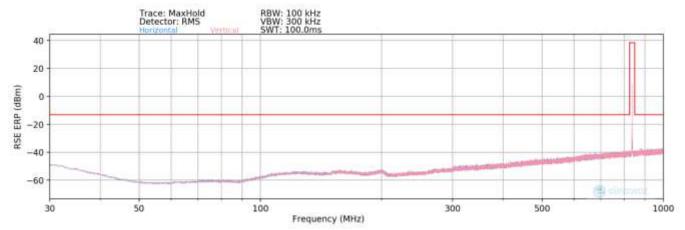
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	Н	239	351	-74.01	-9.39	23.60	-71.66	-13.00	-58.66
2532.00	Н	208	152	-61.32	-5.55	40.13	-55.12	-13.00	-42.12
3376.00	Н	-	-	-74.43	-3.56	29.01	-66.24	-13.00	-53.24
4220.00	Н	174	135	-74.24	-2.57	30.19	-65.06	-13.00	-52.06
5064.00	Н	-	-	-75.10	-0.85	31.05	-64.21	-13.00	-51.21
5908.00	Н	-	-	-75.27	0.69	32.42	-62.84	-13.00	-49.84
6752.00	Н	-	-	-75.37	2.84	34.47	-60.78	-13.00	-47.78

Table 7-14. Radiated Spurious Data (LTE Band 5 – High Channel – Main1)

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LTE Band 5 - Sub

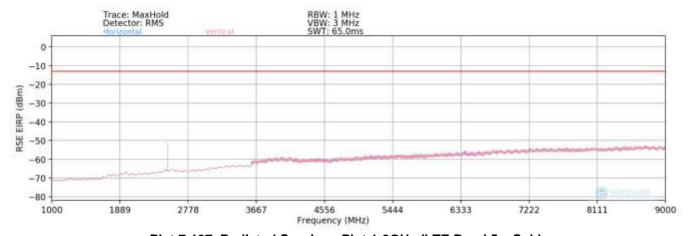


Plot 7-136. Radiated Spurious Plot 30MHz-1GHz (LTE Band 5 - Sub)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
416.00	Н	-	-	-97.30	23.65	33.35	-64.06	-13.00	-51.06

Table 7-15. Radiated Spurious Data 30MHz - 1GHz (LTE Band 5 - Mid Channel - Sub)



Plot 7-137. Radiated Spurious Plot 1-9GHz (LTE Band 5 - Sub)

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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	Н	237	164	-64.42	-10.02	32.56	-62.70	-13.00	-49.70
2487.00	Н	214	231	-63.31	-5.86	37.83	-57.43	-13.00	-44.43
3316.00	Н	-	-	-74.81	-3.69	28.50	-66.76	-13.00	-53.76
4145.00	Н	-	-	-74.71	-2.04	30.25	-65.00	-13.00	-52.00
4974.00	Н	-	-	-74.78	-1.42	30.80	-64.46	-13.00	-51.46

Table 7-16. Radiated Spurious Data (LTE Band 5 - Low Channel - Sub)

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	Н	117	174	-75.58	-9.64	21.78	-73.48	-13.00	-60.48
2509.50	Н	142	254	-63.02	-5.48	38.50	-56.76	-13.00	-43.76
3346.00	Н	-	-	-74.12	-3.65	29.23	-66.03	-13.00	-53.03
4182.50	Н	-	-	-74.42	-2.37	30.21	-65.05	-13.00	-52.05
5019.00	Н	-	-	-74.97	-1.35	30.68	-64.57	-13.00	-51.57

Table 7-17. Radiated Spurious Data (LTE Band 5 – Mid Channel – Sub)

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

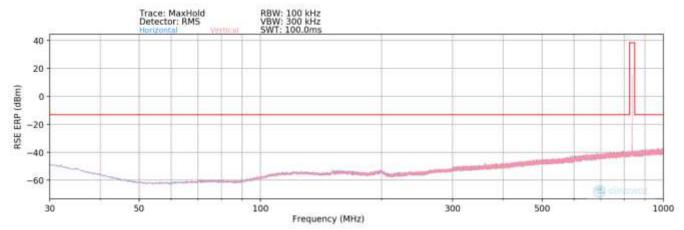
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	Н	186	165	-67.82	-9.39	29.79	-65.47	-13.00	-52.47
2532.00	Н	144	234	-62.47	-5.55	38.98	-56.27	-13.00	-43.27
3376.00	Н	-	-	-74.23	-3.56	29.21	-66.04	-13.00	-53.04
4220.00	Н	-	-	-74.65	-2.57	29.78	-65.47	-13.00	-52.47
5064.00	Н	-	-	-75.06	-0.85	31.09	-64.17	-13.00	-51.17

Table 7-18. Radiated Spurious Data (LTE Band 5 – High Channel – Sub)

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NR Band n5 - Main1

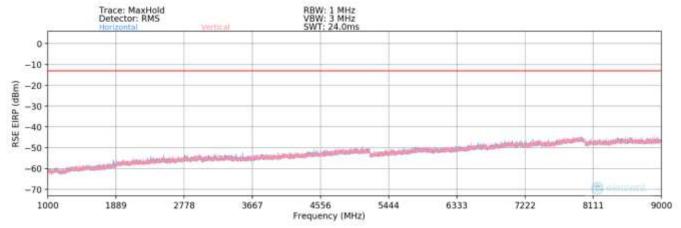


Plot 7-138. Radiated Spurious Plot 30MHz-1GHz (NR band n5 - Main1)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 26
Mode:	Stand Alone

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]
499.88	Н	-	-	-90.18	25.86	42.68	-54.73	-13.00	-41.73
629.24	Н	-	-	-90.37	27.69	44.32	-53.09	-13.00	-40.09

Table 7-19. Radiated Spurious Data 30MHz - 1GHz (NR Band 5 - Mid Channel - Main1)



Plot 7-139. Radiated Spurious Plot 1-9GHz (NR Band n5 - Main1)

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Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1/53
Mode:	Stand Alone

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]
1668.00	Н	-	-	-77.01	-1.19	28.80	-66.46	-13.00	-53.46
2502.00	Н	326	123	-73.23	3.19	36.96	-58.30	-13.00	-45.30
3336.00	Н	-	-	-78.62	4.83	33.21	-62.05	-13.00	-49.05
4170.00	Н	-	-	-78.93	5.62	33.69	-61.56	-13.00	-48.56
5004.00	Н	-	-	-79.22	7.03	34.81	-60.45	-13.00	-47.45

Table 7-20. Radiated Spurious Data (NR Band n5 – Low Channel – Main1)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1/53
Mode:	Stand Alone

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	Н	-	-	-76.95	-1.19	28.86	-66.39	-13.00	-53.39
2509.50	Н	398	128	-72.50	3.17	37.67	-57.58	-13.00	-44.58
3346.00	Н	-	-	-78.74	4.85	33.11	-62.14	-13.00	-49.14
4182.50	Н	-	-	-79.14	5.51	33.37	-61.89	-13.00	-48.89
5019.00	Н	-	-	-79.24	6.94	34.70	-60.56	-13.00	-47.56

Table 7-21. Radiated Spurious Data (NR Band n5 - Mid Channel - Main1)

Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1/53
Mode:	Stand Alone

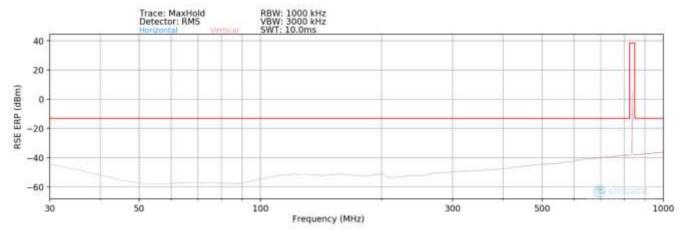
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	Н	-	-	-76.84	-1.18	28.98	-66.28	-13.00	-53.28
2517.00	Н	201	175	-72.71	3.07	37.36	-57.90	-13.00	-44.90
3356.00	Н	-	-	-78.98	4.86	32.88	-62.37	-13.00	-49.37
4195.00	Н	-	-	-78.99	5.43	33.44	-61.82	-13.00	-48.82
5034.00	Н	-	-	-79.20	6.93	34.73	-60.53	-13.00	-47.53

Table 7-22. Radiated Spurious Data (NR Band n5 - High Channel - Main1)

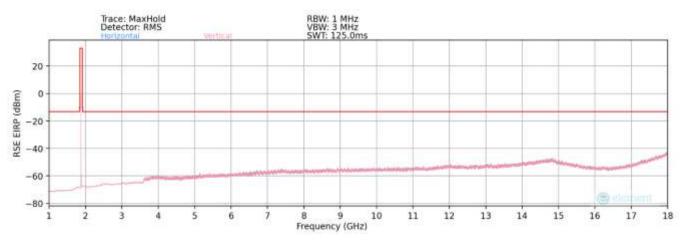
FCC ID: PY7-84558E	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 101 of 117	
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EN-DC: NR Band n5 Main1 - LTE Band 2 Main2



Plot 7-140. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n5 Main1 - LTE Band 2 Main2)



Plot 7-141. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n5 Main1 - LTE Band 2 Main2)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1880
RB / Offset:	1/53&1/50
Mode:	EN-DC
Anchor Band:	Band 2

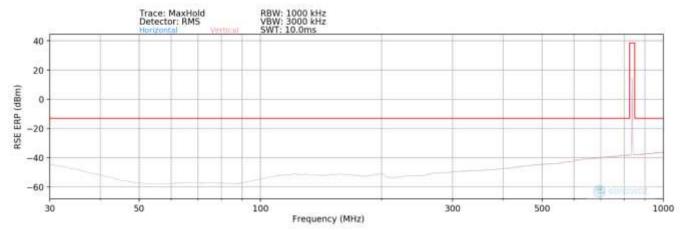
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB
207.00	Н	-	-	-90.33	17.82	34.49	-62.91	-13.00	-49.91
3553.00	Н	-	-	-74.42	-2.51	30.07	-65.19	-13.00	-52.19
5226.00	Н	-	-	-74.86	-0.29	31.85	-63.40	-13.00	-50.40
6899.00	Н	-	-	-75.63	3.46	34.83	-60.42	-13.00	-47.42

Table 7-23. Radiated Spurious Data (EN-DC: NR Band n5 Main1 - LTE Band 2 Main2)

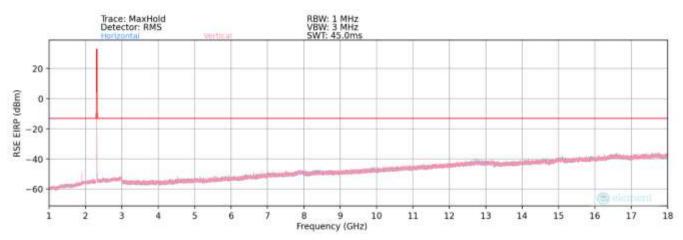
FCC ID: PY7-84558E	PART 22 MEASUREMENT REPORT Appro Techni				
Test Report S/N:	Test Dates:	EUT Type:	Page 102 of 117		
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EN-DC: NR Band n5 Main1 - LTE Band 30 Main2



Plot 7-142. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n5 Main1 - LTE Band 30 Main2)



Plot 7-143. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n5 Main1 - LTE Band 30 Main2)

Bandwidth (MHz):	20/10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 & 1/25
Mode:	EN-DC
Anchor Band:	Band 30

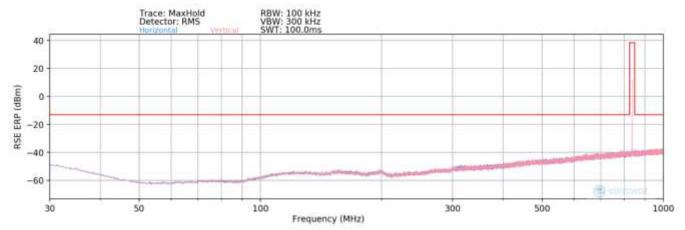
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]		Margin [dB]
637.00	V	-	-	-90.21	28.11	44.90	-52.51	-13.00	-39.51
1911.00	V	-	-	-68.83	1.35	39.52	-55.74	-13.00	-42.74
3146.50	V	-	-	-69.90	4.70	41.80	-53.46	-13.00	-40.46
3983.00	V	231	180	-70.07	5.52	42.45	-52.81	-13.00	-39.81

Table 7-24. Radiated Spurious Data (EN-DC: NR Band n5 Main1 - LTE Band 30 Main2)

FCC ID: PY7-84558E		Approved by: Technical Manager		
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NR Band n5 - Sub

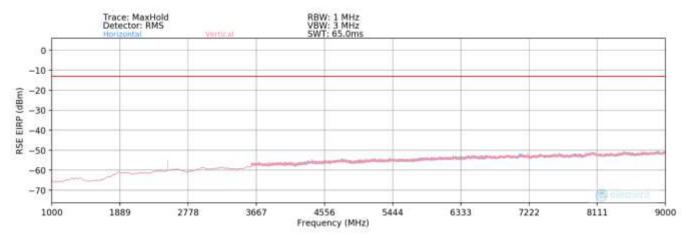


Plot 7-144. Radiated Spurious Plot 30MHz-1GHz (NR band n5 - Sub)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1/53
Mode:	Stand Alone

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]
316.00	Н	-	i	-97.05	21.39	31.34	-66.07	-13.00	-53.07

Table 7-25. Radiated Spurious Data 30MHz - 1GHz (NR Band 5 - Mid Channel - Sub)



Plot 7-145. Radiated Spurious Plot 1-9GHz (NR Band n5 - Sub)

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Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1/53
Mode:	Stand Alone
Anchor Band:	N/A

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]
1668.00	Н	-	-	-76.72	-3.89	26.39	-68.86	-13.00	-55.86
2502.00	Н	170	212	-66.95	0.41	40.46	-54.80	-13.00	-41.80
3336.00	Н	-	-	-77.83	1.55	30.72	-64.53	-13.00	-51.53
4170.00	Н	-	-	-78.32	2.45	31.13	-64.13	-13.00	-51.13
5004.00	Н	-	-	-79.02	3.99	31.97	-63.29	-13.00	-50.29

Table 7-26. Radiated Spurious Data (NR Band n5 – Low Channel – Sub)

Bandwidth (MHz):	20
Frequency (MHz):	
RB / Offset:	1/53
Mode:	Stand Alone
Anchor Band:	N/A

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	Н	-	-	-76.88	-3.80	26.32	-68.94	-13.00	-55.94
2509.50	Н	168	214	-57.54	0.48	49.94	-45.32	-13.00	-32.32
3346.00	Н	-	-	-77.77	1.58	30.81	-64.45	-13.00	-51.45
4182.50	Н	-	-	-78.41	2.48	31.07	-64.19	-13.00	-51.19
5019.00	Н	-	-	-79.26	4.10	31.84	-63.42	-13.00	-50.42

Table 7-27. Radiated Spurious Data (NR Band n5 - Mid Channel - Sub)

Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1/53
Mode:	Stand Alone
Anchor Band:	N/A

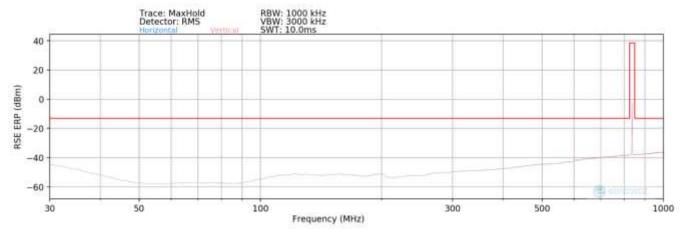
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	Н	-	-	-76.90	-3.70	26.40	-68.86	-13.00	-55.86
2517.00	Н	129	351	-69.90	0.65	37.75	-57.51	-13.00	-44.51
3356.00	Н	-	-	-77.70	1.58	30.88	-64.38	-13.00	-51.38
4195.00	Н	-	-	-78.01	2.39	31.38	-63.87	-13.00	-50.87
5034.00	Н	-	-	-79.47	4.17	31.70	-63.56	-13.00	-50.56

Table 7-28. Radiated Spurious Data (NR Band n5 – High Channel – Sub)

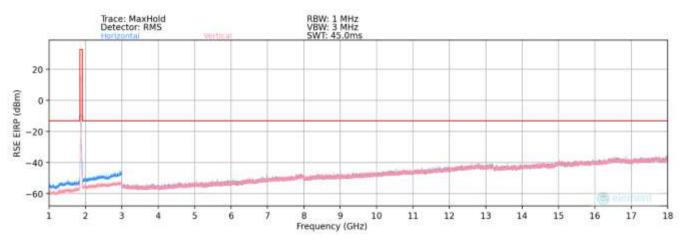
FCC ID: PY7-84558E		PART 22 MEASUREMENT REPORT			
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EN-DC: NR Band n5 Sub - LTE Band 2 Main2



Plot 7-146. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n5 Sub – LTE Band 2 Main2)



Plot 7-147. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n5 Sub - LTE Band 2 Main2)

Bandwidth (MHz):	20/20
Frequency (MHz):	836.5 / 1880
RB / Offset:	1/53&1/50
Mode:	EN-DC
Anchor Band:	Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
207.00	Н	-	-	-91.11	17.82	33.71	-61.54	-13.00	-48.54
1043.50	Н	-	-	-69.60	-5.09	32.31	-62.94	-13.00	-49.94
2087.00	Н	-	-	-71.25	-0.66	35.09	-60.16	-13.00	-47.16
2716.50	Н	-	-	-74.53	0.53	33.00	-62.26	-13.00	-49.26
5433.00	Н	-	-	-70.51	5.09	41.58	-53.68	-13.00	-40.68

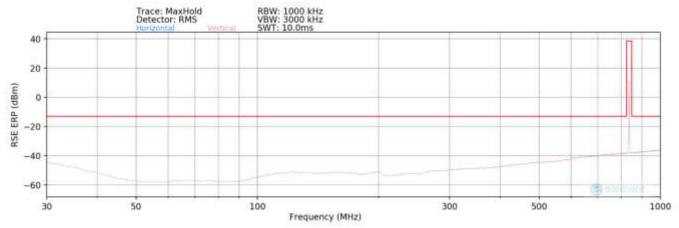
Table 7-29. Radiated Spurious Data (EN-DC: NR Band n5 Sub - LTE Band 2 Main2)

FCC ID: PY7-84558E		Approved by: Technical Manager	
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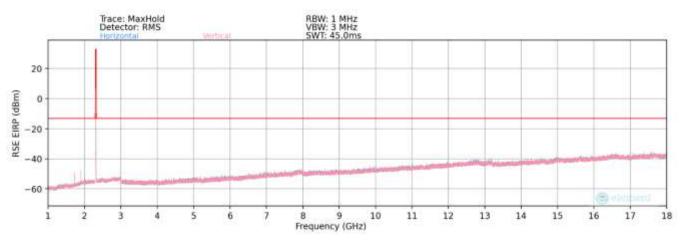
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EN-DC: NR Band n5 Sub - LTE Band 30 Main2



Plot 7-148. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n5 Sub – LTE Band 30 Main2)



Plot 7-149. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n5 Sub – LTE Band 30 Main2)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53&1/25
Mode:	EN-DC
Anchor Band:	Band 30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
637.00	V	-	-	-90.54	28.11	44.57	-50.69	-13.00	-37.69
1673.00	V	-	-	-67.96	-3.80	35.24	-60.02	-13.00	-47.02
1911.00	V	-	-	-68.00	-0.76	38.24	-57.01	-13.00	-44.01
3783.50	V	-	-	-70.60	2.32	38.72	-56.53	-13.00	-43.53
9877.00	V	-	-	-73.30	9.46	43.16	-52.10	-13.00	-39.10

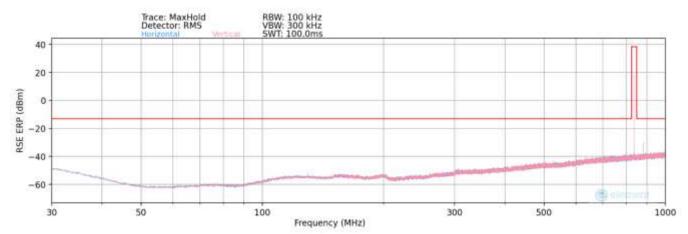
Table 7-30. Radiated Spurious Data (EN-DC: NR Band n5 Sub - LTE Band 30 Main2)

FCC ID: PY7-84558E		Approved by: Technical Manager	
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GSM/GPRS Cell - Main1

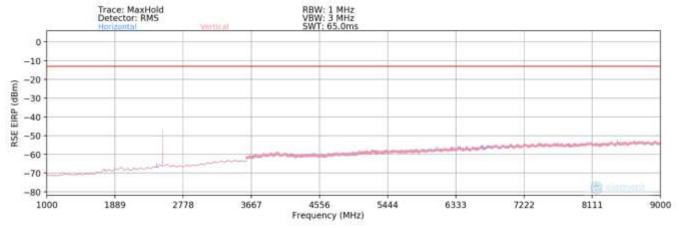


Plot 7-150. Radiated Spurious Plot 30MHz-1GHz (GPRS Cell – Main1)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
138.20	Н	-	-	-98.45	19.84	28.39	-69.02	-13.00	-56.02
183.24	Н	-	-	-99.50	18.36	25.86	-71.55	-13.00	-58.55
881.60	Н	125	204	-89.69	30.97	48.28	-49.12	-13.00	-36.12

Table 7-31. Radiated Spurious Data 30MHz - 1GHz (GPRS Cell - Mid Channel - Main1)



Plot 7-151. Radiated Spurious Plot 1-9GHz (GPRS Cell – Main1)

FCC ID: PY7-84558E		Approved by: Technical Manager		
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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	133	71	-63.34	-10.23	33.43	-61.83	-13.00	-48.83
2472.60	н	246	151	-44.52	-6.05	56.43	-38.82	-13.00	-25.82
3296.80	H	724	-	-69.11	-3.89	34.00	-61.26	-13.00	-48.26
4121.00	H	199	208	-70.64	-1.91	34.45	-60.81	-13.00	-47.81
4945.20	Н			-71.77	-1.61	33.62	-61.64	-13.00	-48.64
5769.40	H	(*)	-	-72.65	0.00	34.35	-60.90	-13.00	47.90

Table 7-32. Radiated Spurious Data (GPRS Cell – Low Channel – Main1)

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	740		-68.56	-9.64	28.80	-66.46	-13.00	-53.46
2509.80	н	248	159	-47.01	-5.48	54.51	-40.74	-13.00	-27.74
3346.40	н		-	-69.03	-3.66	34.31	-60.94	-13.00	-47.94
4183.00	Н	203	209	-70.39	-2.38	34.23	-61.03	-13.00	-48.03
5019.60	н	125		-72.27	-1.34	33.39	-61.87	-13.00	-48.87
5856.20	Н		4	-72.84	0.19	34.35	-60.91	-13.00	47.91

Table 7-33. Radiated Spurious Data (GPRS Cell - Mid Channel - Main1)

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 [dBpV/m]	EIRP Spurious Emission Level [dBm]	Limit (dBm)	Margin [dB]
1697.60	н			-68.96	-9.32	28.72	-66.54	-13.00	-53.54
2546.40	H	244	156	-45.58	-5.62	54.80	-40.46	-13.00	-27.46
3395.20	H	72-	-	-68.37	-3.66	34.97	-60.28	-13.00	-47.28
4244.00	H	218	200	-70.30	-2.61	34.09	-61.17	-13.00	-48:17
5092.80	Н		1.5	-72.31	-0.66	34.03	-61.22	-13.00	-48.22
5941.60	H	(*)		-72.36	0.59	35.23	-60.03	-13.00	47.03

Table 7-34. Radiated Spurious Data (GPRS Cell - High Channel - Main1)

Case:	w/ Wireless Charging Pad
Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

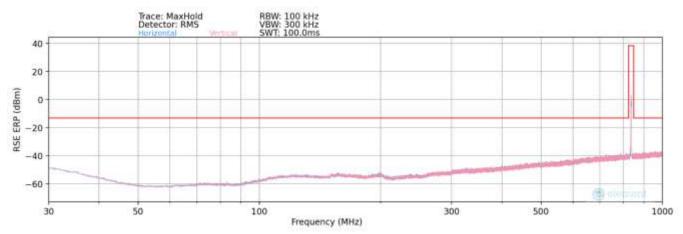
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin (dB)
1648.40	Н			-68.32	-10.23	28.45	-66.81	-13.00	-53.81
2472.60	н	299	166	-47.77	-6.05	53.18	-42.07	-13.00	-29.07
3296.80	н			-68.96	-3.89	34.15	-61.11	-13.00	48.11
4121.00	Н	(4)	4	-71.71	-1.91	33.38	-61.88	-13.00	-48.88
4945.20	н	188		-71.77	-1.61	33.62	-61.64	-13.00	-48.64
5769.40	Н			-72.44	0.00	34.56	-60.69	-13.00	47.69

Table 7-35. Radiated Spurious Data with WCP (GPRS Cell - Main1)

FCC ID: PY7-84558E		Approved by: Technical Manager	
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WCDMA Cell - Main1

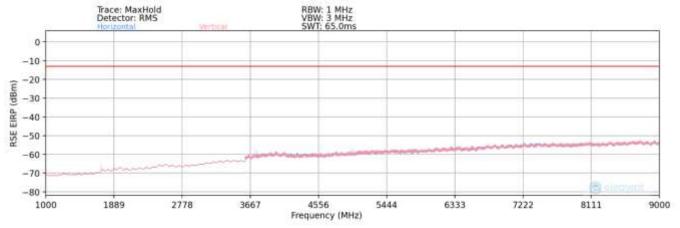


Plot 7-152. Radiated Spurious Plot 30MHz-1GHz (GPRS Cell - Main1)

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]
452.32	V	-	-	-96.28	24.82	35.54	-61.87	-13.00	-48.87

Table 7-36. Radiated Spurious Data 30MHz - 1GHz (GPRS Cell - Mid Channel - Main1)



Plot 7-153. Radiated Spurious Plot 1-9GHz (WCDMA Cell - Main1)

FCC ID: PY7-84558E		Approved by: Technical Manager	
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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]
I	1652.80	V	-	-	-68.66	-10.14	28.20	-67.06	-13.00	-54.06
I	2479.20	V	-	-	-71.14	-5.95	29.91	-65.35	-13.00	-52.35
I	3305.60	V	-	-	-71.55	-3.82	31.63	-63.63	-13.00	-50.63
ı	4132.00	V	-	_	-72.21	-1.98	32.81	-62.45	-13.00	-49.45

Table 7-37. Radiated Spurious Data (WCDMA Cell – Low Channel – Main1)

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	-	-	-68.00	-9.64	29.36	-65.90	-13.00	-52.90
2509.80	V	-	-	-68.99	-5.48	32.53	-62.72	-13.00	-49.72
3346.40	V	-	-	-71.56	-3.66	31.78	-63.47	-13.00	-50.47
4183.00	V	-	-	-71.98	-2.38	32.64	-62.62	-13.00	-49.62

Table 7-38. Radiated Spurious Data (WCDMA Cell – Mid Channel – Main1)

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	-	-	-67.89	-9.35	29.76	-65.50	-13.00	-52.50
2539.80	V	-	-	-68.59	-5.58	32.83	-62.43	-13.00	-49.43
3386.40	V	-	-	-71.55	-3.62	31.83	-63.43	-13.00	-50.43
4233.00	V	-	-	-72.66	-2.63	31.71	-63.55	-13.00	-50.55

Table 7-39. Radiated Spurious Data (WCDMA Cell - High Channel - Main1)

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI 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, the frequency stability of the transmitter shall be Main1tained 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

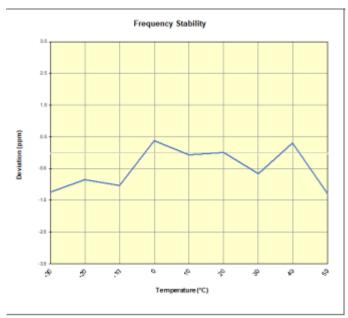
None.

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LTE Band	5				
	Operating	Frequency (Hz):	836,50	00,000	
	Ref	. Voltage (VDC):	4	28	
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	836,500,168	-1,045	-0.0001249
		- 20	836,500,498	-715	-0.0000854
		- 10	836,500,352	-861	-0.0001029
		0	836,501,522	309	0.0000370
100 %	4.28	+ 10	836,501,160	-52	-0.0000062
		+ 20 (Ref)	836,501,213	0	0.0000000
		+ 30	836,500,663	-550	-0.0000657
		+ 40	836,501,463	250	0.0000299
		+ 50	836,500,136	-1,077	-0.0001287
Battery Endpoint	3.69	+ 20	836,502,303	1,090	0.0001303

Table 7-40. LTE Band 5 Frequency Stability Data



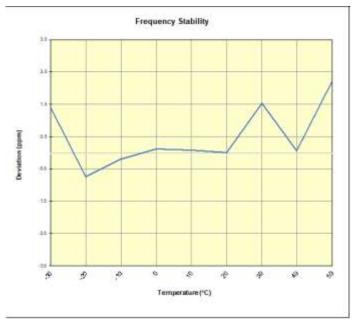
Plot 7-154. LTE Band 5 Frequency Stability Chart

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NR Band	n5				
	Operating	Frequency (Hz):	836,50	00,000	
	Ref	. Voltage (VDC):	4.:	28	1
		Deviation Limit:	± 0.00025%	or 2.5 ppm	1
1					•
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	836,493,776	1,158	0.0001384
		- 20	836,491,998	-620	-0.0000741
		- 10	836,492,451	-167	-0.0000200
		0	836,492,717	99	0.0000118
100 %	4.28	+ 10	836,492,687	69	0.0000083
		+ 20 (Ref)	836,492,618	0	0.0000000
		+ 30	836,493,893	1,274	0.0001524
		+ 40	836,492,665	47	0.0000056
		+ 50	836,494,460	1,842	0.0002202
Battery Endpoint	3.69	+ 20	836,492,852	234	0.0000280

Table 7-41. NR Band n5 Frequency Stability Data



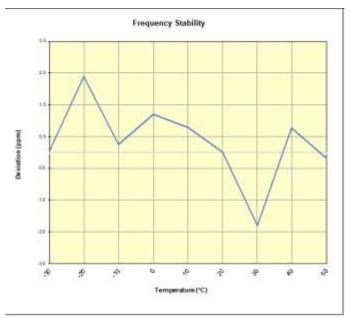
Plot 7-155. NR Band n5 Frequency Stability Chart

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GSM/GPRS Cellular					
	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 %		- 30	836,600,065	54	0.0000064
		- 20	836,602,010	1,999	0.0002389
		- 10	836,600,224	213	0.0000255
		0	836,601,015	1,005	0.0001201
	4.28	+ 10	836,600,666	655	0.0000783
		+ 20 (Ref)	836,600,011	0	0.0000000
		+ 30	836,598,081	-1,930	-0.0002307
		+ 40	836,600,650	639	0.0000764
		+ 50	836,599,852	-159	-0.0000190
Battery Endpoint	3.69	+ 20	836,600,081	70	0.0000083

Table 7-42. GSM/GPRS Cell Frequency Stability Data



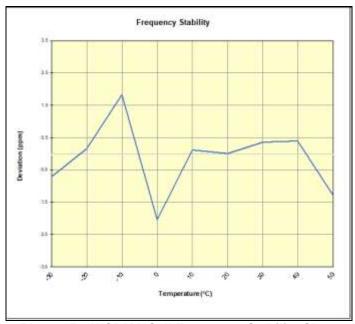
Plot 7-156. GSM/GPRS Cell Frequency Stability Chart

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WCDMA Cellular					
	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 %		- 30	836,606,494	-585	-0.0000700
		- 20	836,607,214	134	0.0000160
		- 10	836,608,615	1,535	0.0001835
		0	836,605,366	-1,714	-0.0002049
	4.28	+ 10	836,607,181	102	0.0000121
		+ 20 (Ref)	836,607,080	0	0.0000000
		+ 30	836,607,383	303	0.0000362
		+ 40	836,607,410	330	0.0000395
		+ 50	836,606,010	-1,070	-0.0001279
Battery Endpoint	3.69	+ 20	836,606,784	-296	-0.0000354

Table 7-43. WCDMA Cell Frequency Stability Data



Plot 7-157. 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 Portable Handset FCC ID: PY7-84558E complies with all the requirements of Part 22 of the FCC rules.

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