

PCTEST

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PART 24 MEASUREMENT REPORT

Applicant Name: LG Electronics USA, Inc. 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632 United States Date of Testing: 12/03/2020 – 12/17/2020 Test Site/Location: PCTEST Lab. Columbia, MD, USA Test Report Serial No.: 1M2011180184-13.ZNF

FCC ID: ZNFK420TM
Applicant Name: LG Electronics USA, Inc.

Application Type:CertificationModel:LM-K420TM

Additional Model(s): LMK420TM, K420TM, LM-K420MM, LMK420MM, K420MM,

LM-K420PM, LMK420PM, K420PM, LG L560DL,

LGL560DL, L560DL, LM-K420QM, LMK420QM, K420QM, LM-K420QM5, LMK420QM5, K420QM5, LM-K420QM6, LMK420QA, LMK420QA,

K420QA

EUT Type: Portable Handset

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

FCC Rule Part: 24

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

D01 v03r01

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

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

/ Randy Ortanez President





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		Ty Francisco	Ell	RP	- Emissien
Mode	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
GSM/GPRS	GMSK	1850.2 - 1909.8	1.062	30.26	248KGXW
EDGE	8-PSK	1850.2 - 1909.8	0.427	26.30	247KG7W
WCDMA	Spread Spectrum	1852.4 - 1907.6	0.344	25.36	4M19F9W
CDMA	Spread Spectrum	1851.25 - 1908.75	0.208	23.18	1M28F9W

			Ty Fraguency	EII	RP	Emission
Mode	Mode Bandwidth		Tx Frequency Range [MHz]	Max. Power	Max. Power	Designator
			90 [=]	[W]	[dBm]	Doorginator
		QPSK	1860 - 1905	0.341	25.33	18M0G7D
	20 MHz	16QAM	1860 - 1905	0.283	24.51	18M0W7D
		64QAM	1860 - 1905	0.223	23.48	18M0W7D
		QPSK	1857.5 - 1907.5	0.356	25.51	13M5G7D
	15 MHz	16QAM	1857.5 - 1907.5	0.297	24.73	13M5W7D
		64QAM	1857.5 - 1907.5	0.243	23.85	13M5W7D
	10 MHz	QPSK	1855 - 1910	0.375	25.74	9M05G7D
LTE Band 25/2		16QAM	1855 - 1910	0.313	24.95	8M98W7D
		64QAM	1855 - 1910	0.246	23.91	9M01W7D
	5 MHz	QPSK	1852.5 - 1912.5	0.331	25.20	4M51G7D
		16QAM	1852.5 - 1912.5	0.287	24.57	4M51W7D
		64QAM	1852.5 - 1912.5	0.227	23.55	4M52W7D
		QPSK	1851.5 - 1913.5	0.354	25.49	2M69G7D
	3 MHz	16QAM	1851.5 - 1913.5	0.289	24.61	2M69W7D
		64QAM	1851.5 - 1913.5	0.229	23.59	2M69W7D
		QPSK	1850.7 - 1914.3	0.395	25.96	1M10G7D
	1.4 MHz	16QAM	1850.7 - 1914.3	0.316	24.99	1M10W7D
		64QAM	1850.7 - 1914.3	0.257	24.09	1M10W7D

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1.0 INTRODUCTION

1.1 Scope

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

1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility 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 PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST 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.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFK420TM**. 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 24.

Test Device Serial No.: 12577 13203

2.2 Device Capabilities

This device contains the following capabilities:

CDMA, GSM/GPRS/EDGE, WCDMA/HSPA, Multi-band LTE, WLAN, UNII, BT (1x, EDR, LE)

2.3 Test Configuration

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

2.4 EMI Suppression Device(s)/Modifications

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

2.5 Software and Firmware

Testing was conducted with firmware version K420TM06f installed on the EUT.

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DESCRIPTION OF TESTS 3.0

3.1 **Evaluation Procedure**

The measurement procedures described in the "Land Mobile FM or PM - Communications Equipment -Measurements and Performance Standards" (ANSI/TIA-603-E-2016) and "Measurement Guidance for Certification of Licensed Digital Transmitters" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure......None 3.2 **PCS - Base Frequency Blocks** Α В Ε F С 1930 1950 1970 1990 BLOCK 1: 1930 - 1945 MHz (A) BLOCK 4: 1965 - 1970 MHz (E) BLOCK 2: 1945 - 1950 MHz (D) BLOCK 5: 1970 - 1975 MHz (F) BLOCK 3: 1950 - 1965 MHz (B) BLOCK 6: 1975 - 1990 MHz (C) 3.3 **PCS - Mobile Frequency Blocks** C Α D В Ε F 1850 1870 1910 1890 BLOCK 1: 1850 - 1865 MHz (A) BLOCK 4: 1885 - 1890 MHz (E) BLOCK 2: 1865 - 1870 MHz (D) BLOCK 5: 1890 - 1895 MHz (F)

BLOCK 3: 1870 - 1885 MHz (B)

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BLOCK 6: 1895 - 1910 MHz (C)

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3.4 Radiated Power and Radiated Spurious Emissions

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

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI/TIA-603-E-2016. 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_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_{g \ [dBm]} - cable \ loss \ _{[dB]}$.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

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 474788 D01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI/TIA-603-E-2016.

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MEASUREMENT UNCERTAINTY 4.0

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

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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TEST EQUIPMENT CALIBRATION DATA 5.0

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	LTx2	Licensed Transmitter Cable Set	9/16/2020	Annual	9/16/2021	LTx2
-	LTx3	Licensed Transmitter Cable Set	8/28/2020	Annual	8/28/2021	LTx3
Anritsu	MT8820C	Radio Communication Analyzer		N/A		6201300731
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6201381794
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6200901190
Emco	3115	Horn Antenna (1-18GHz)	6/18/2020	Biennial	6/18/2022	9704-5182
Keysight Technologies	N9020A	M XA Signal Analyzer	8/14/2020	Annual	8/14/2021	MY54500644
Mini Circuits	TVA-11-422	RF Power Amp		N/A		QA1317001
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A	11208010032	
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A		11403100002
Rohde & Schwarz	CMU 200	Base Station Simulator		N/A		836371/0079
Rohde & Schwarz	CMU 200	Base Station Simulator		N/A		833855/0010
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		100976
Rohde & Schwarz	CMW500	Radio Communication Tester		N/A		112347
Rohde & Schwarz	ESU 26	EMITest Receiver (26.5GHz)	7/15/2020	Annual	7/15/2021	100342
Rohde & Schwarz	SFU NIT-Rx	Shielded Filter Unit	2/10/2020	Annual	2/10/2021	102134
Rohde & Schwarz	SFU NIT-Rx	Shielded Filter Unit	2/21/2020	Annual	2/21/2021	102133
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	3/3/2020	Annual	3/3/2021	A042511
Sunol	DRH-118	Horn Antenna (1-18GHz)	10/3/2019	Biennial	10/3/2021	A050307

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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SAMPLE CALCULATIONS 6.0

GSM Emission Designator

Emission Designator = 250KGXW

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

EDGE Emission Designator

Emission Designator = 250KG7W

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

CDMA Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz F = Frequency Modulation 9 = Composite 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 MHzG = Phase Modulation 7 = Quantized/Digital Info D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

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

D = Data transmission, telemetry, telecommand

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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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7.0 TEST RESULTS

7.1 Summary

Company Name: <u>LG Electronics USA, Inc.</u>

FCC ID: ZNFK420TM

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

Mode(s): <u>GSM/GPRS/EDGE/WCDMA/CDMA/LTE</u>

Test Condition	Test Description	FCC Part Section(s)	RSS Section(s)	Test Limit	Test Result	Reference
	Occupied Bandwidth	2.1049	RSS-Gen(6.7)	N/A	PASS	Section 7.2
匝	Conducted Band Edge / Spurious Emissions	2.1051, 24.238(a)	RSS-133(6.5)	> 43 + 10log10(P[Watts]) at Band Edge and for all out-of- band emissions	PASS	Sections 7.3, 7.4
CONDUCTED	Peak- Average Ratio	24.232(d)	RSS-133(4.1)	<13dB	PASS	Section 7.5
Ö	Transmitter Conducted Output Power	2.1046	RSS-133(4.1)	N/A	PASS	See RF Exposure Report
	Frequency Stability	2.1055, 24.235	RSS-133(6.3)	Fundamental emissions stay within authorized frequency block	PASS	Section 7.8
ATED	Effective Radiated Power / Equivalent Isotropic Radiated Power	24.232(c)	RSS-132(5.4)	< 7 Watts max. ERP	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 24.238(a)	RSS-133(6.5)	> 43 + 10 log10 (P[Watts]) for all out-of-band emissions	PASS	Section 7.7

Table 7-1. Summary of Test Results

Notes:

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- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST 2G/3G Automation Version 4.5, LTE Automation Version 5.3.

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7.2 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

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

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

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

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LTE Band 25/2



Plot 7-1. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



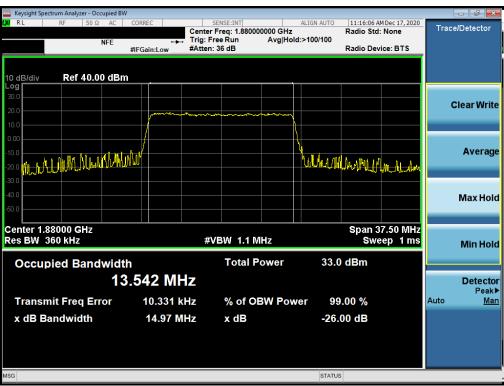
Plot 7-2. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

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Plot 7-5. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

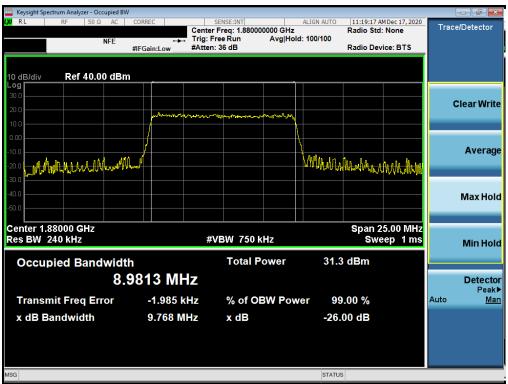
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

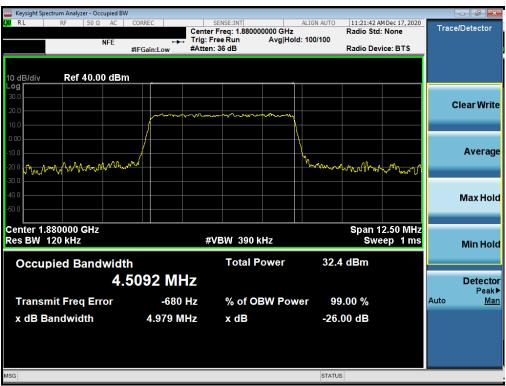
FCC ID: ZNFK420TM	PCTEST* Proud to be part of the element	PART 24 MEASUREMENT REPORT	€ LG	Approved by: Technical Manager	
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Plot 7-9. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)

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Plot 7-13. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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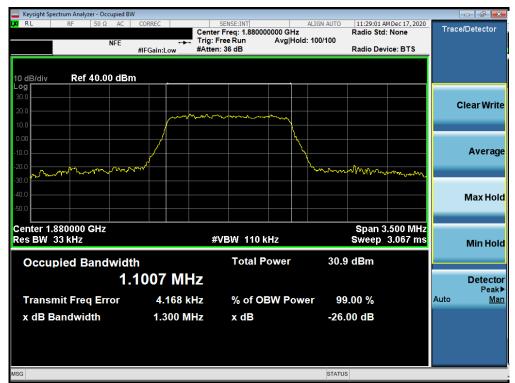
Plot 7-15. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)



Plot 7-16. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)



Plot 7-18. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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GSM/GPRS PCS



Plot 7-19. Occupied Bandwidth Plot (GPRS, Ch. 661)

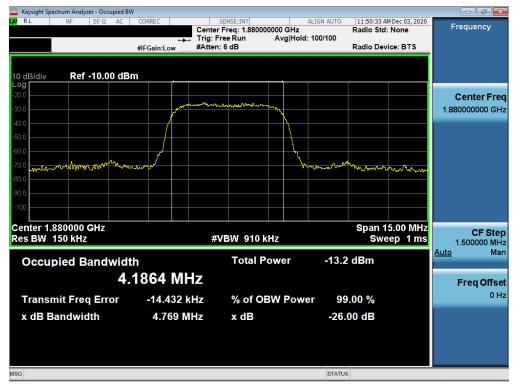


Plot 7-20. Occupied Bandwidth Plot (EDGE, Ch. 661)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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WCDMA PCS



Plot 7-21. Occupied Bandwidth Plot (WCDMA, Ch. 9400)

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CDMA PCS



Plot 7-22. Occupied Bandwidth Plot (CDMA, Ch. 600)

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7.3 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

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

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

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 20GHz (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 7-2. Test Instrument & Measurement Setup

Test Note

Per Part 24 and RSS-133, 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 emission are attenuated at least 26 dB below the transmitter power.

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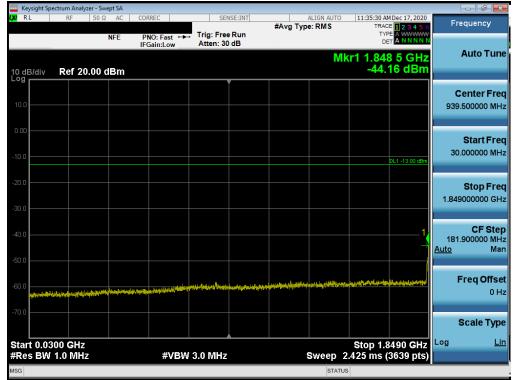
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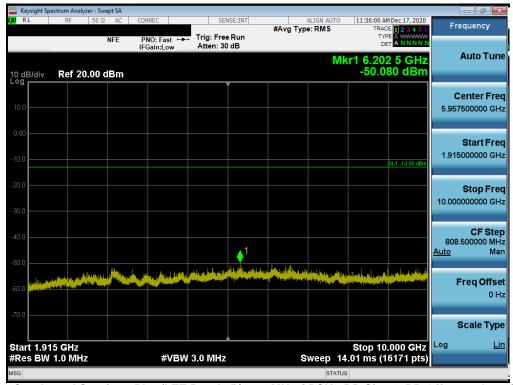
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LTE Band 25/2



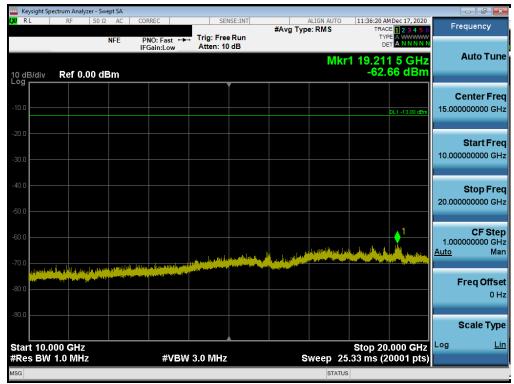
Plot 7-23. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



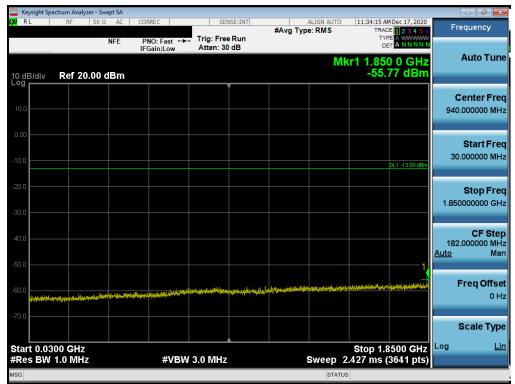
Plot 7-24. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of sement	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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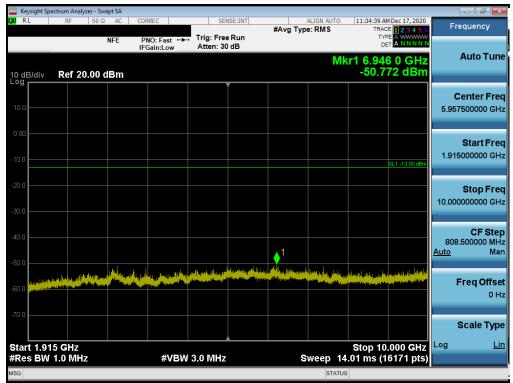
Plot 7-25. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



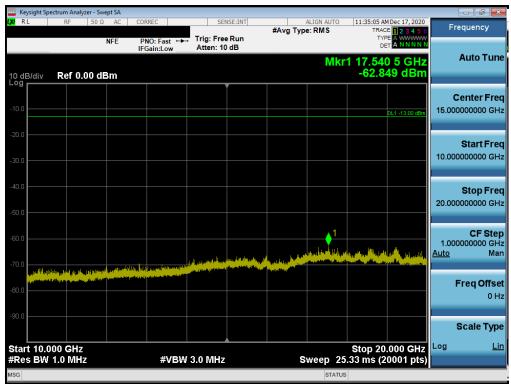
Plot 7-26. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-27. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

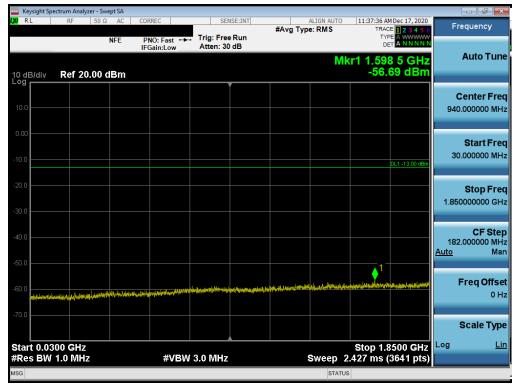


Plot 7-28. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

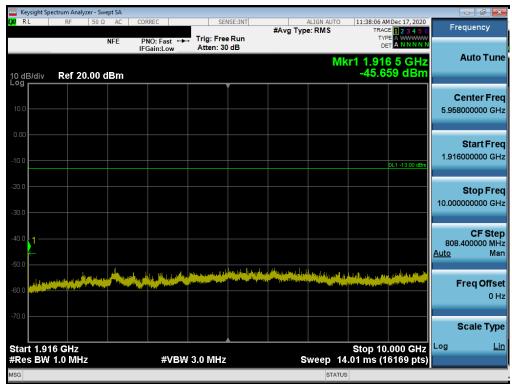
FCC ID: ZNFK420TM	Proud to be part of the demonstra	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-29. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



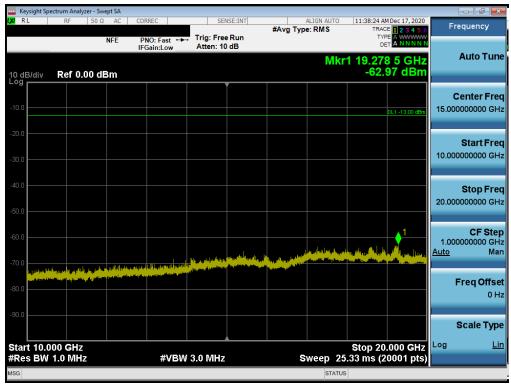
Plot 7-30. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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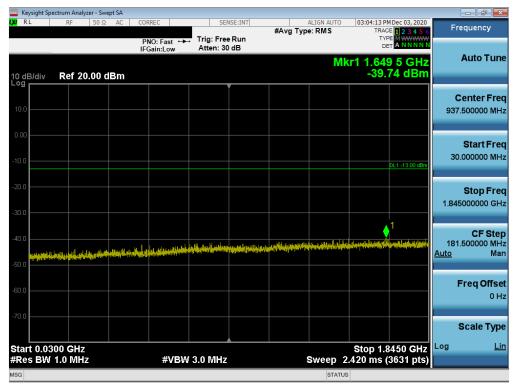


Plot 7-31. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

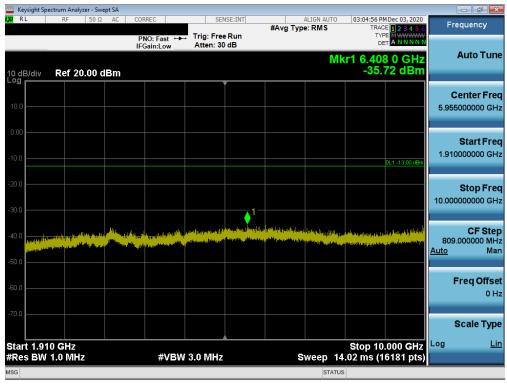
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
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GSM/GPRS PCS



Plot 7-32. Conducted Spurious Plot (GPRS Ch. 512)



Plot 7-33. Conducted Spurious Plot (GPRS Ch. 512)

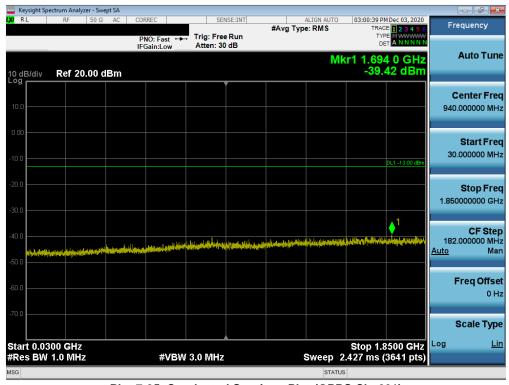
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	G	Approved by: Technical Manager	
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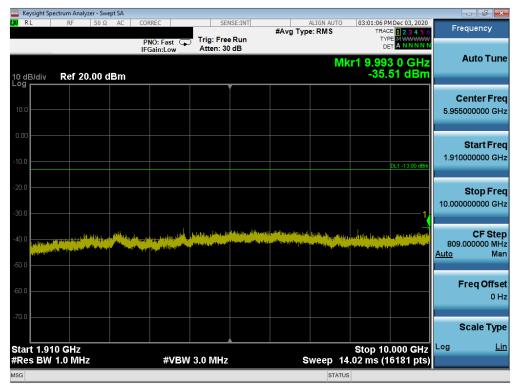
Plot 7-34. Conducted Spurious Plot (GPRS Ch. 512)



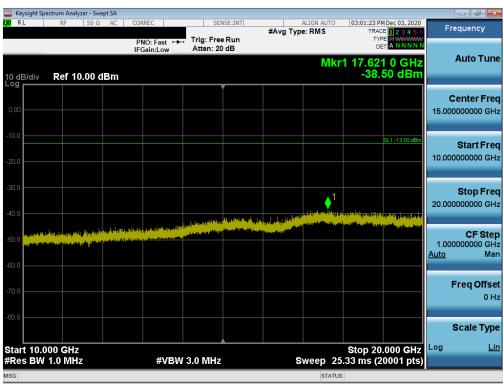
Plot 7-35. Conducted Spurious Plot (GPRS Ch. 661)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager	
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Plot 7-36. Conducted Spurious Plot (GPRS Ch. 661)



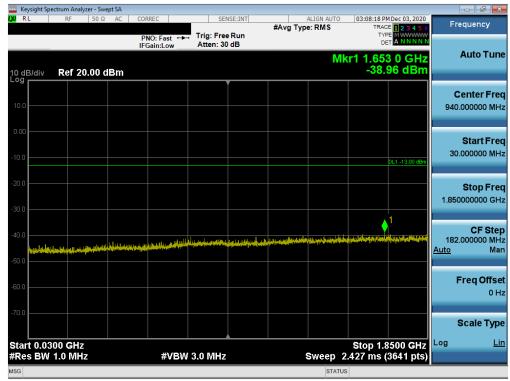
Plot 7-37. Conducted Spurious Plot (GPRS Ch. 661)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager	
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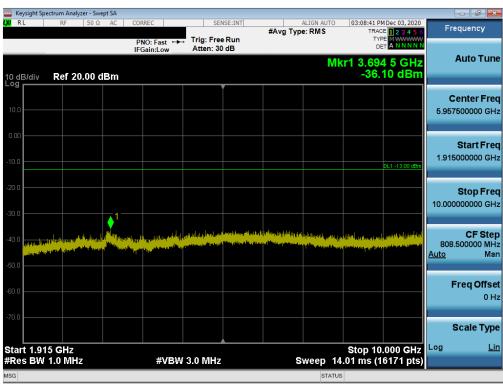
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Plot 7-38. Conducted Spurious Plot (GPRS Ch. 810)



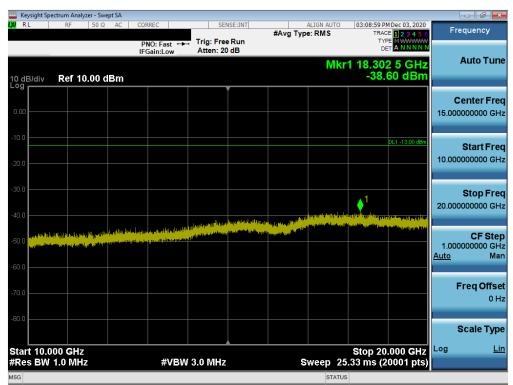
Plot 7-39. Conducted Spurious Plot (GPRS Ch. 810)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
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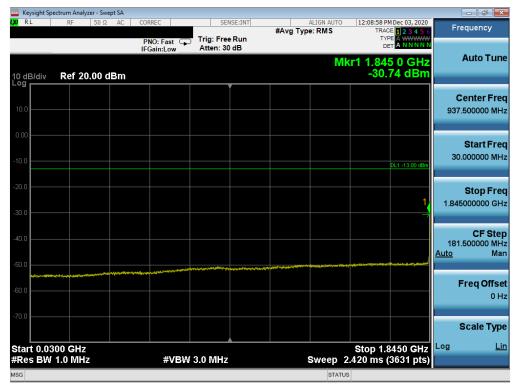
Plot 7-40. Conducted Spurious Plot (GPRS Ch. 810)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager	
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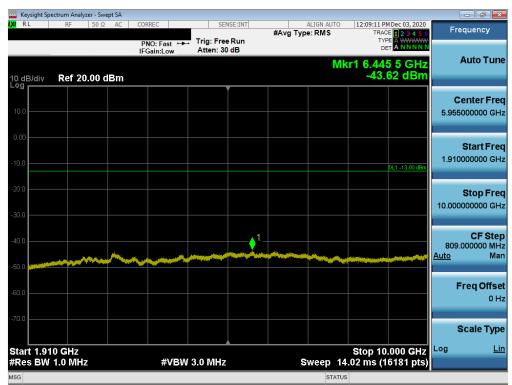
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WCDMA PCS



Plot 7-41. Conducted Spurious Plot (WCDMA Ch. 9262)



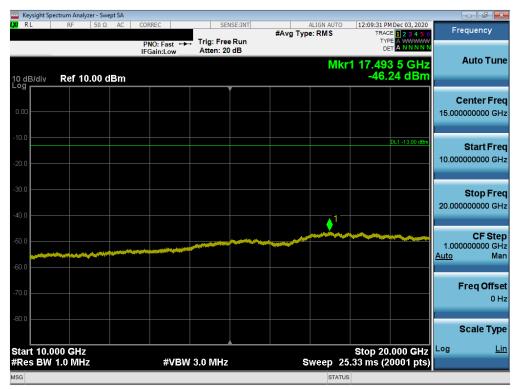
Plot 7-42. Conducted Spurious Plot (WCDMA Ch. 9262)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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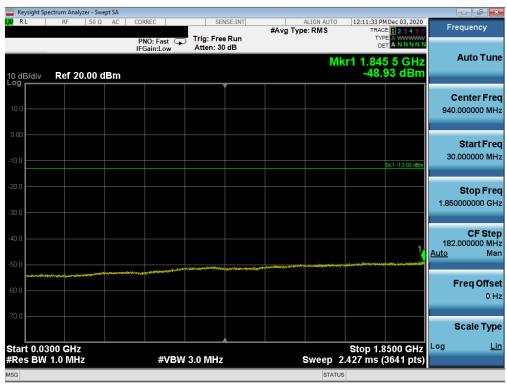
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Plot 7-43. Conducted Spurious Plot (WCDMA Ch. 9262)

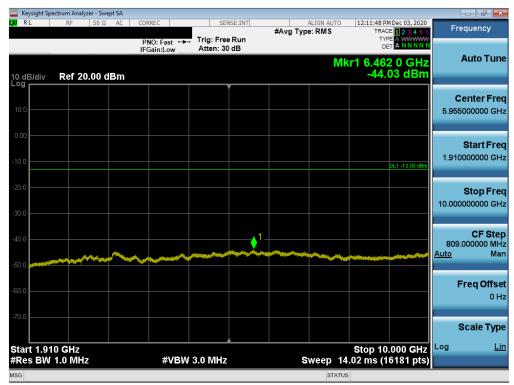


Plot 7-44. Conducted Spurious Plot (WCDMA Ch. 9400)

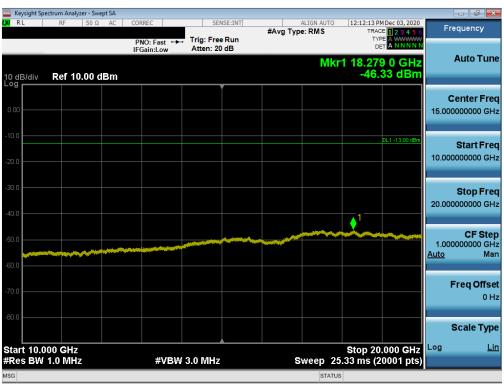
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	⊕ LG	Approved by: Technical Manager
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Plot 7-45. Conducted Spurious Plot (WCDMA Ch. 9400)



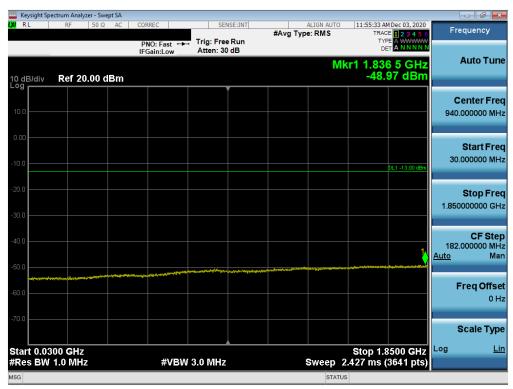
Plot 7-46. Conducted Spurious Plot (WCDMA Ch. 9400)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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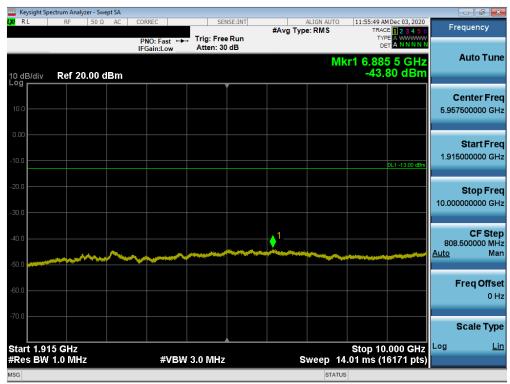
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Plot 7-47. Conducted Spurious Plot (WCDMA Ch. 9538)



Plot 7-48. Conducted Spurious Plot (WCDMA Ch. 9538)

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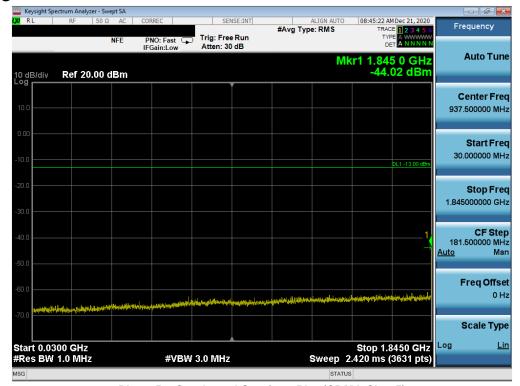
Plot 7-49. Conducted Spurious Plot (WCDMA Ch. 9538)

FCC ID: ZNFK420TM	Proud to be part of a sement	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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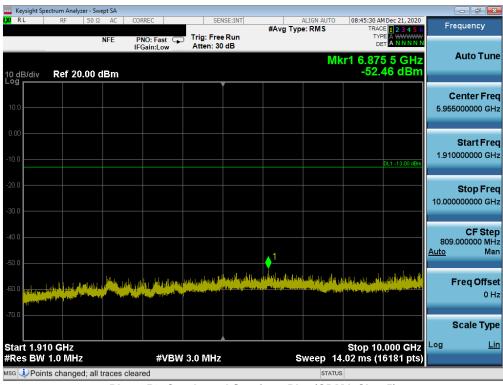
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CDMA PCS



Plot 7-50. Conducted Spurious Plot (CDMA Ch. 25)



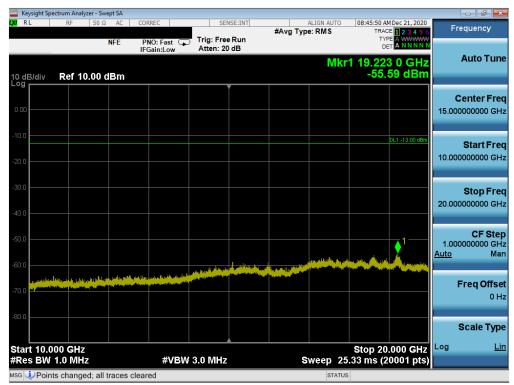
Plot 7-51. Conducted Spurious Plot (CDMA Ch. 25)

FCC ID: ZNFK420TM	Powd to be part of \$ element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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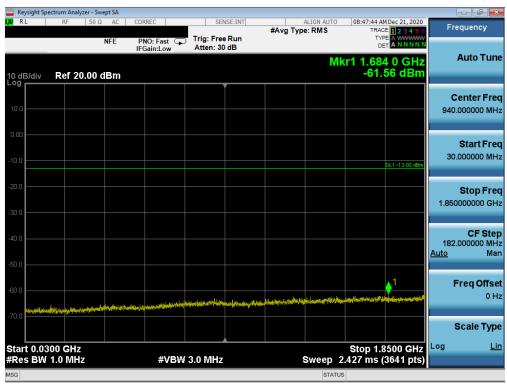
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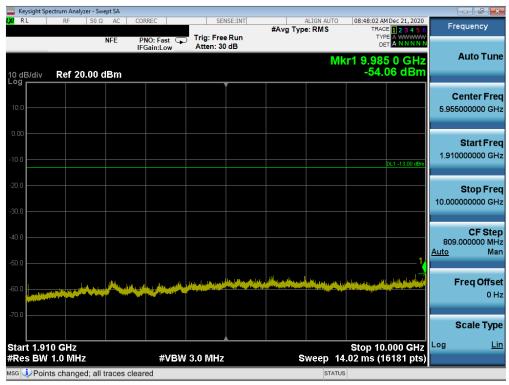
Plot 7-52. Conducted Spurious Plot (CDMA Ch. 25)



Plot 7-53. Conducted Spurious Plot (CDMA Ch. 600)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager
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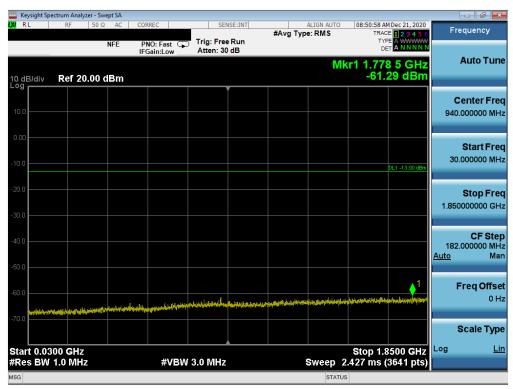
Plot 7-54. Conducted Spurious Plot (CDMA Ch. 600)



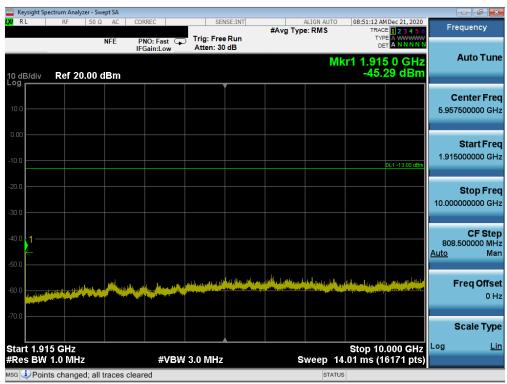
Plot 7-55. Conducted Spurious Plot (CDMA Ch. 600)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of second	PART 24 MEASUREMENT REPORT	<mark>⊕</mark> LG	Approved by: Technical Manager
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Plot 7-56. Conducted Spurious Plot (CDMA Ch. 1175)



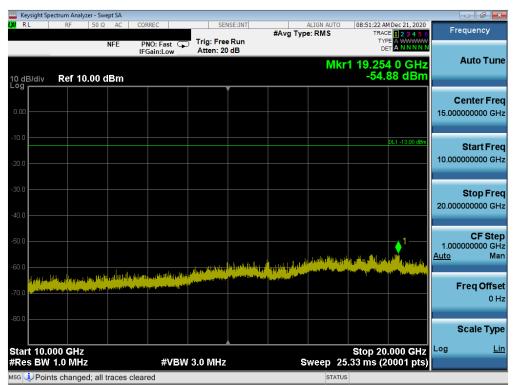
Plot 7-57. Conducted Spurious Plot (CDMA Ch. 1175)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager
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Plot 7-58. Conducted Spurious Plot (CDMA Ch. 1175)

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7.4 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

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Note

Per 24.238(a) and RSS-133(6.5), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

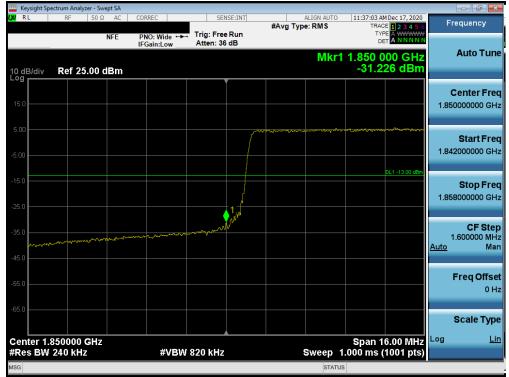
FCC ID: ZNFK420TM	POTEST* Proud to be part of a sement	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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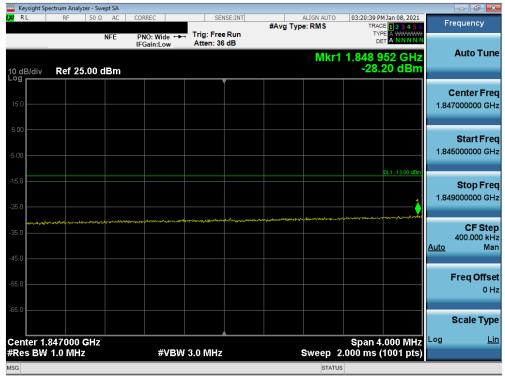
V1.2 11/2/2020
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LTE Band 25/2



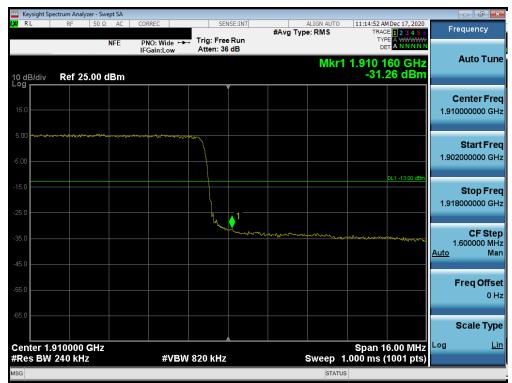
Plot 7-59. Lower Band Edge Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



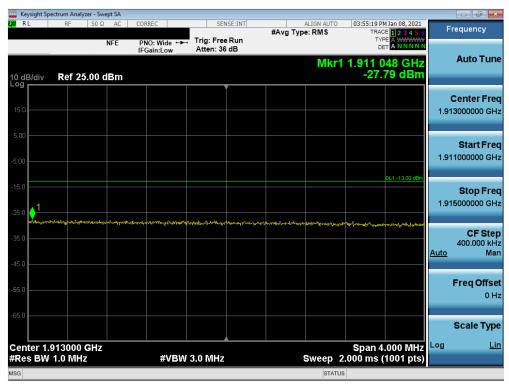
Plot 7-60. Extended Lower Band Edge Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-61. Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)



Plot 7-62. Extended Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of sement	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-63. Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK - Full RB Configuration)



Plot 7-64. Extended Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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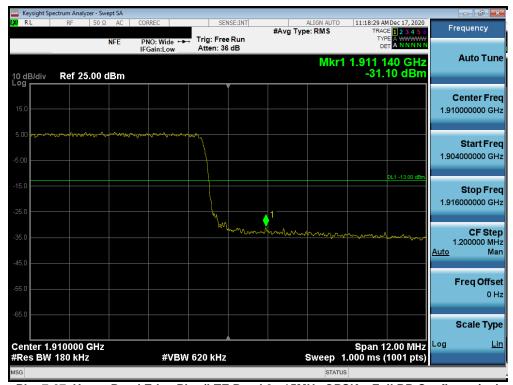
Plot 7-65. Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)



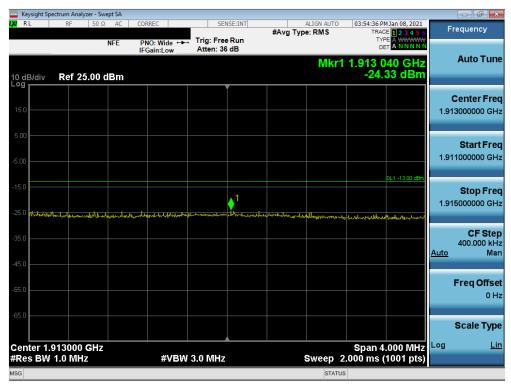
Plot 7-66. Extended Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-67. Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)



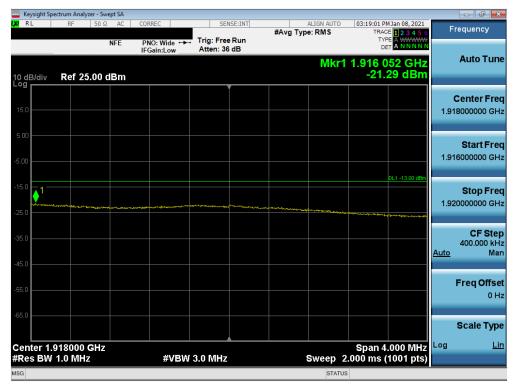
Plot 7-68. Extended Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-69. Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK - Full RB Configuration)



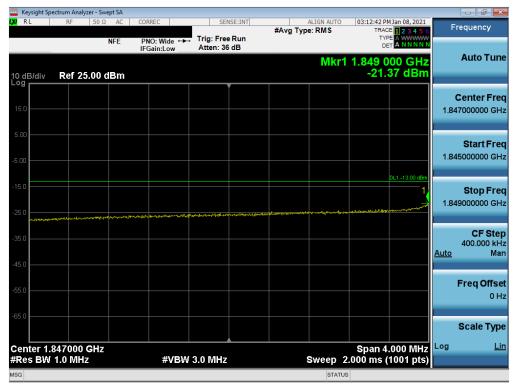
Plot 7-70. Extended Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	.G	Approved by: Technical Manager
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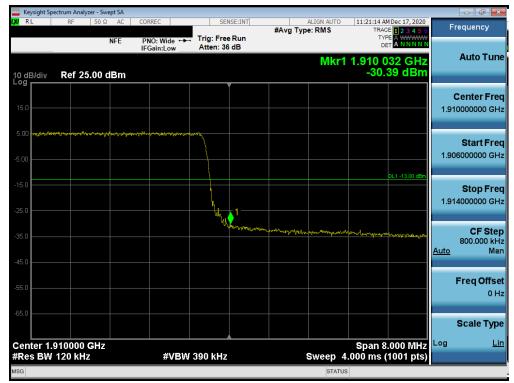
Plot 7-71. Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)



Plot 7-72. Extended Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT (b) LG	G	Approved by: Technical Manager
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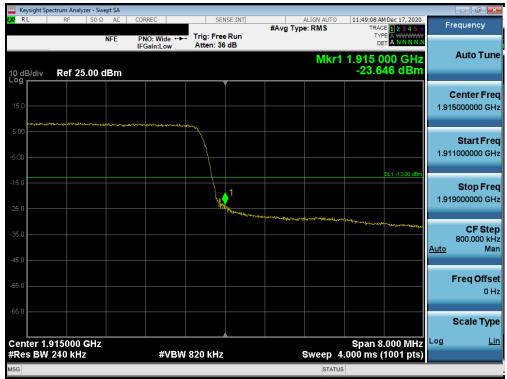
Plot 7-73. Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)



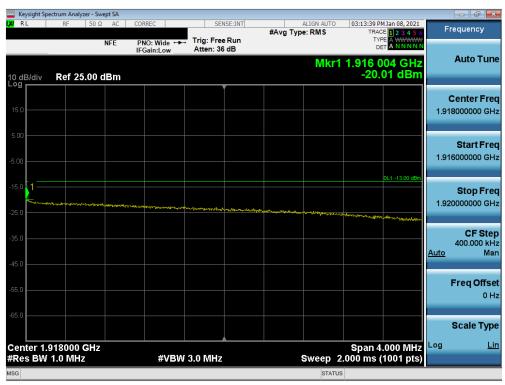
Plot 7-74. Extended Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	G	Approved by: Technical Manager
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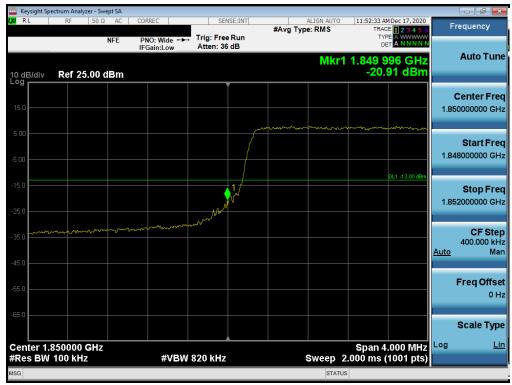
Plot 7-75. Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK - Full RB Configuration)



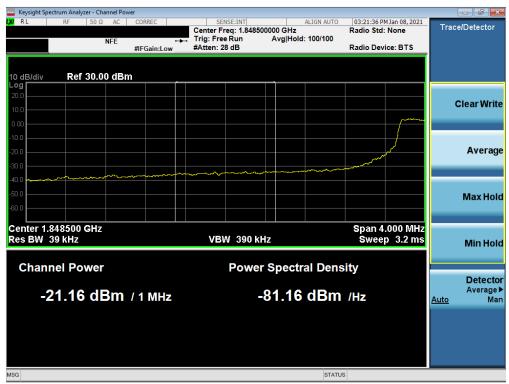
Plot 7-76. Extended Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	G	Approved by: Technical Manager
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Plot 7-77. Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)



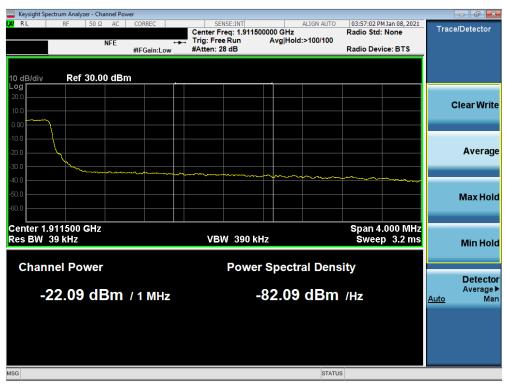
Plot 7-78. Extended Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-79. Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)



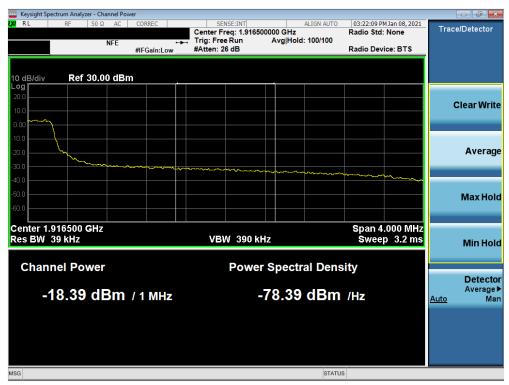
Plot 7-80. Extended Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	<mark>}</mark> ∟G	Approved by: Technical Manager
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Plot 7-81. Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK - Full RB Configuration)



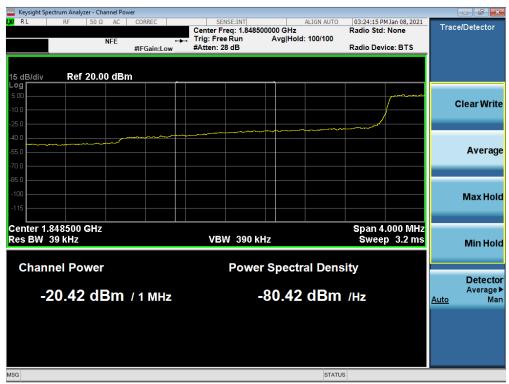
Plot 7-82. Extended Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-83. Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



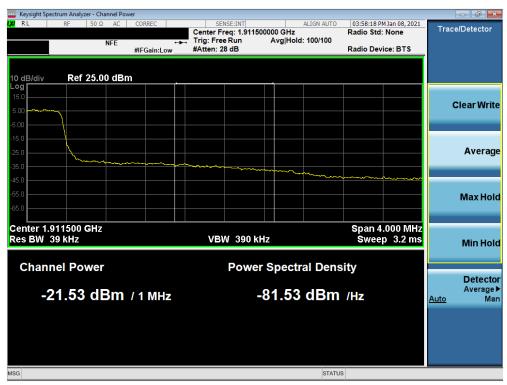
Plot 7-84. Extended Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-85. Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)



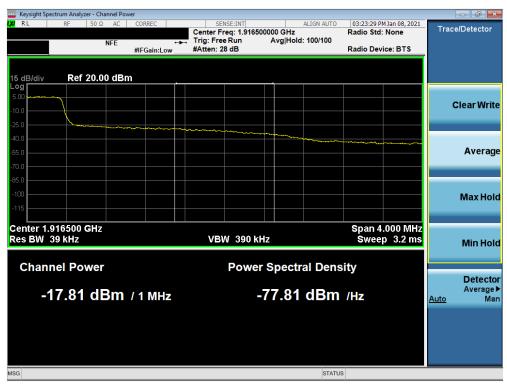
Plot 7-86. Extended Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	<mark>}</mark> ∟G	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 61 of 103	
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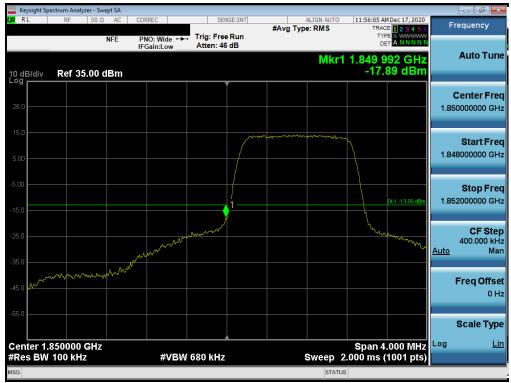
Plot 7-87. Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK - Full RB Configuration)



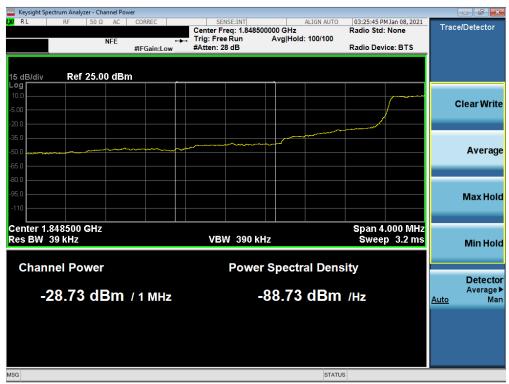
Plot 7-88. Extended Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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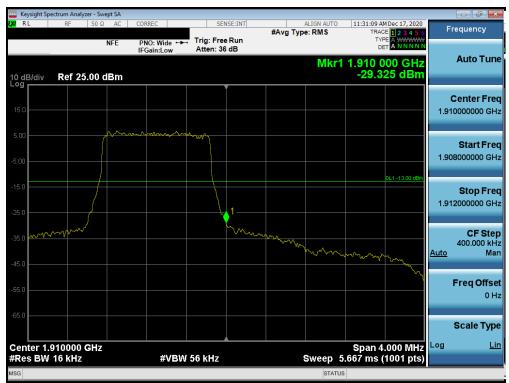
Plot 7-89. Lower Band Edge Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



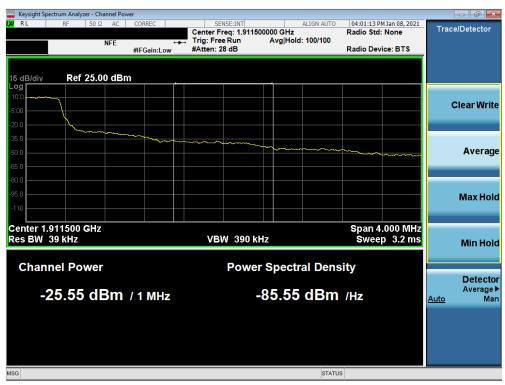
Plot 7-90. Extended Lower Band Edge Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	POTEST* Proud to be part of ® element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-91. Upper Band Edge Plot (LTE Band 2 - 1.4MHz QPSK - Full RB Configuration)



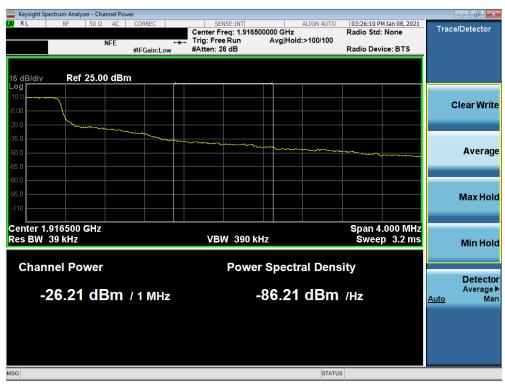
Plot 7-92. Extended Upper Band Edge Plot (LTE Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	POTEST* Proud to be part of ® element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-93. Upper Band Edge Plot (LTE Band 25 - 1.4MHz QPSK - Full RB Configuration)

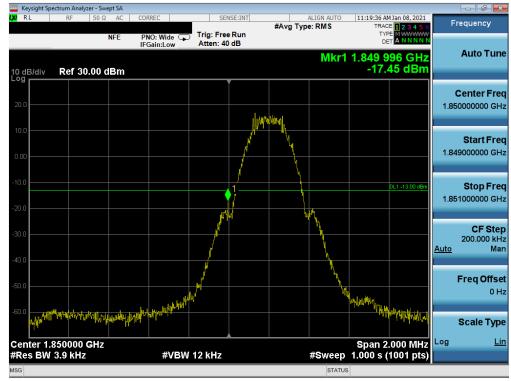


Plot 7-94. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

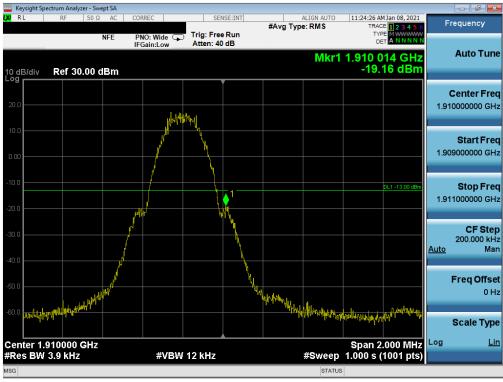
FCC ID: ZNFK420TM	POTEST* Proud to be part of ® element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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GSM/GPRS PCS



Plot 7-95. Lower Band Edge Plot (GPRS PCS - Ch. 512)

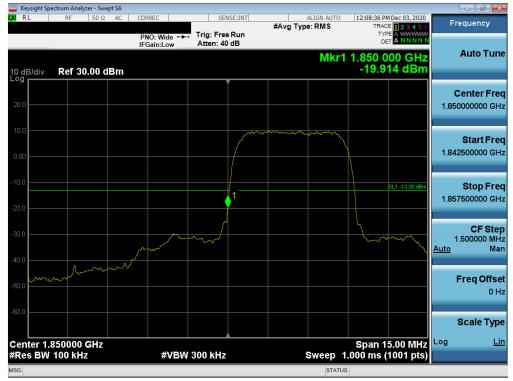


Plot 7-96. Upper Band Edge Plot (GPRS PCS - Ch. 810)

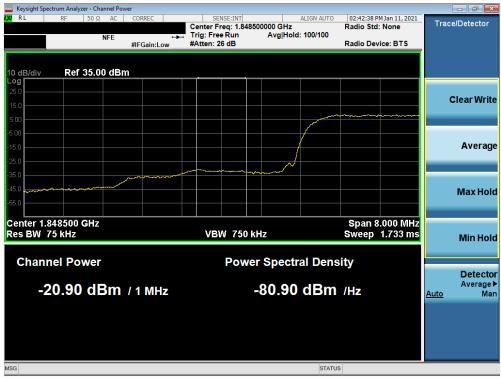
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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WCDMA PCS



Plot 7-97. Lower Band Edge Plot (WCDMA PCS - Ch. 9262)



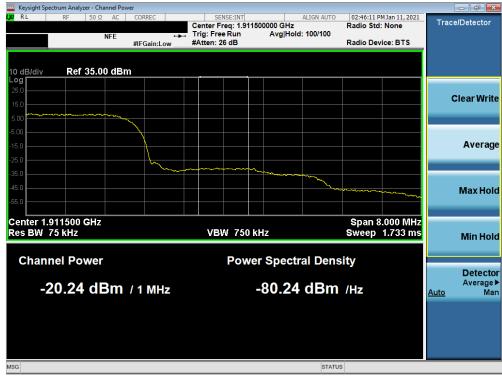
Plot 7-98. Lower Extended Band Edge Plot (WCDMA PCS - Ch. 9262)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-99. Upper Band Edge Plot (WCDMA PCS - Ch. 9538)



Plot 7-100. Upper Extended Band Edge Plot (WCDMA PCS - Ch. 9538)

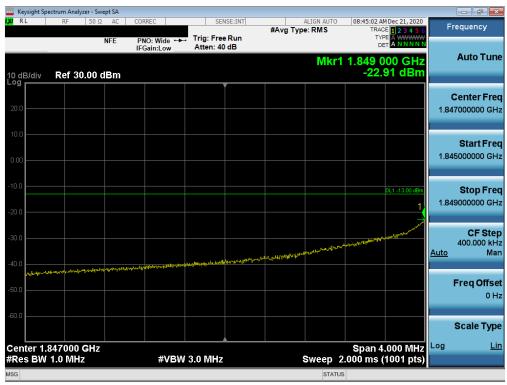
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	<mark>}</mark> ∟G	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 68 of 103
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CDMA PCS



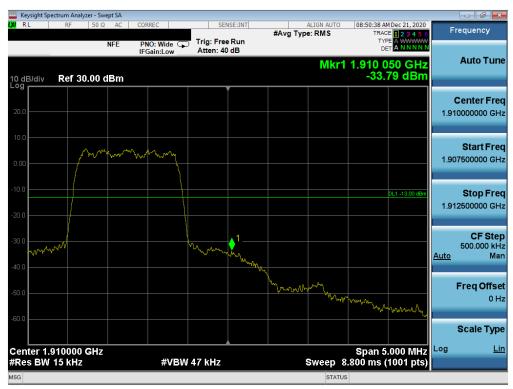
Plot 7-101. Lower Band Edge Plot (CDMA PCS - Ch. 25)



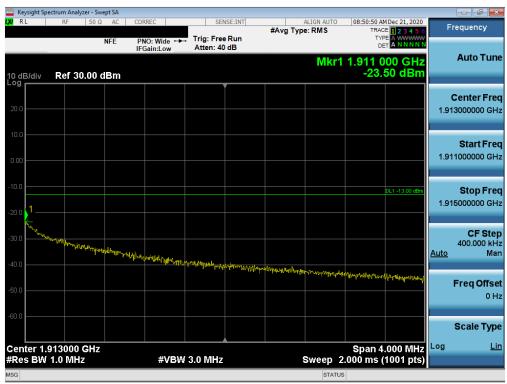
Plot 7-102. Extended Lower Band Edge Plot (CDMA PCS - Ch. 25)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-103. Upper Band Edge Plot (CDMA PCS - Ch. 1175)



Plot 7-104. Extended Upper Band Edge Plot (CDMA PCS - Ch. 1175)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	<mark>}</mark> ∟G	Approved by: Technical Manager
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7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

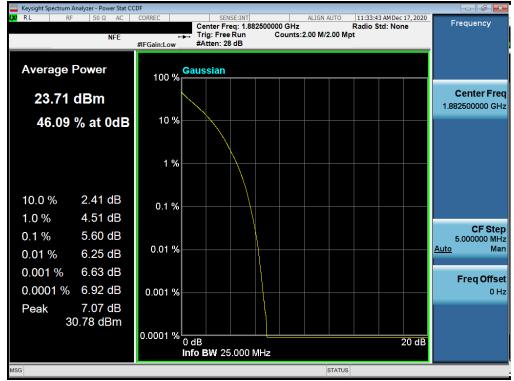
assembly of contents thereof, please contact INFO@PCTEST.COM.

None.

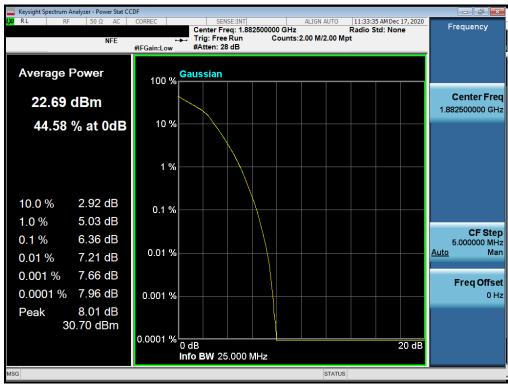
FCC ID: ZNFK420TM	Proud to be part of a sement	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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LTE Band 25/2



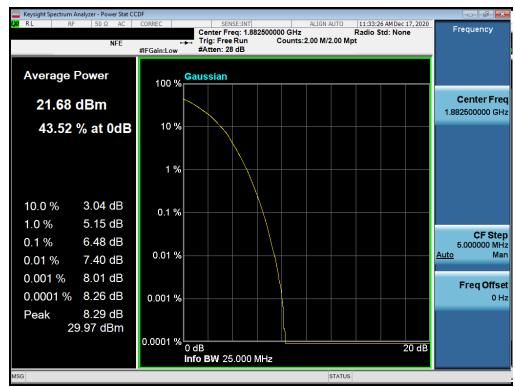
Plot 7-105. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



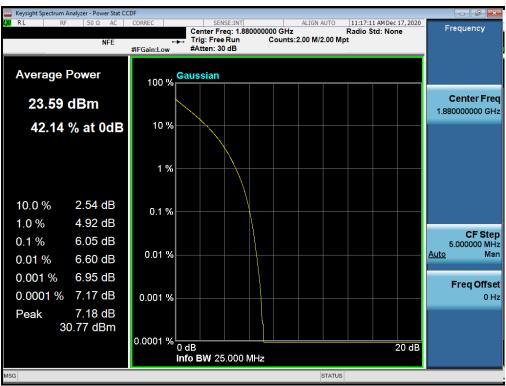
Plot 7-106. PAR Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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Plot 7-107. PAR Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)



Plot 7-108. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

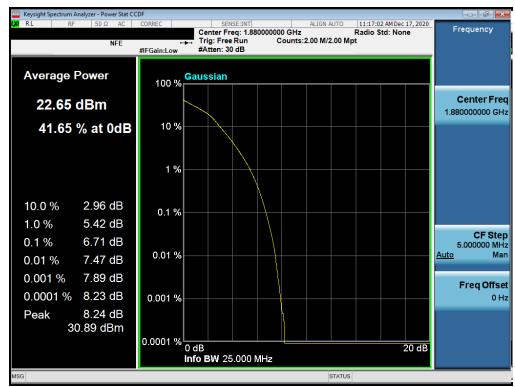
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager
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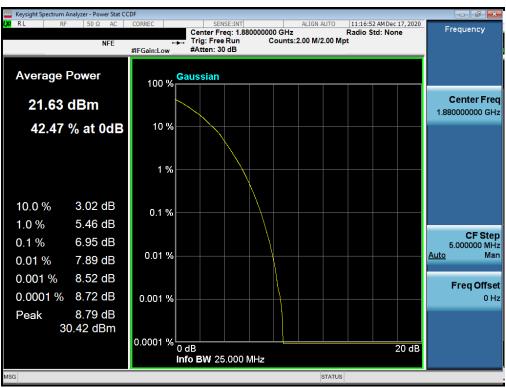
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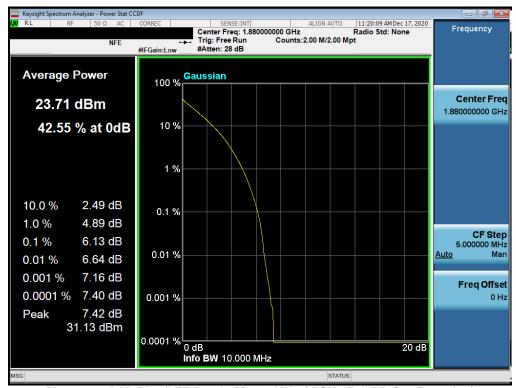
Plot 7-109. PAR Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)



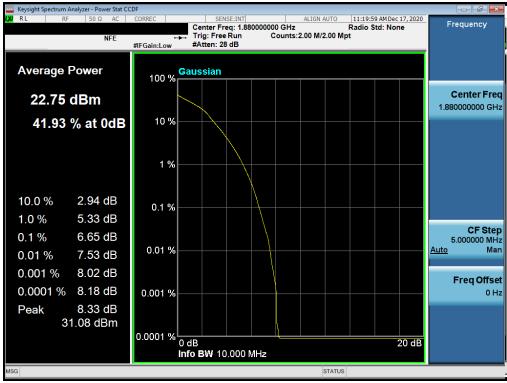
Plot 7-110. PAR Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT] LG	Approved by: Technical Manager
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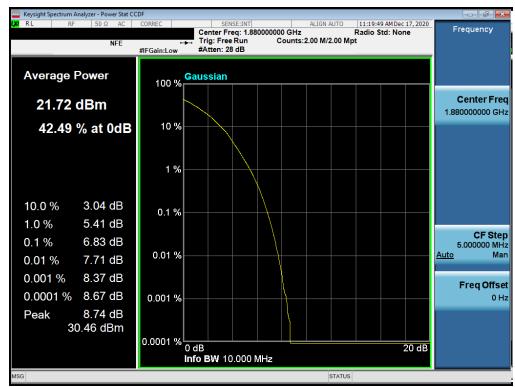
Plot 7-111. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)



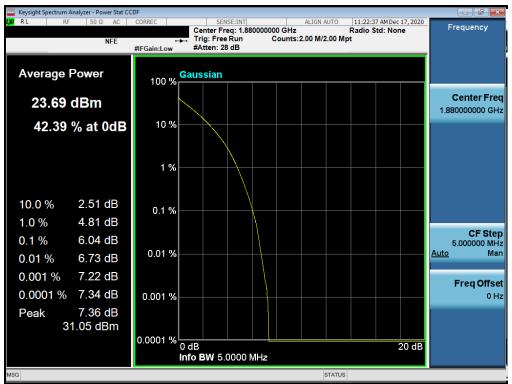
Plot 7-112. PAR Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	Powd to be part of \$ element	PART 24 MEASUREMENT REPORT	(LG	Approved by: Technical Manager
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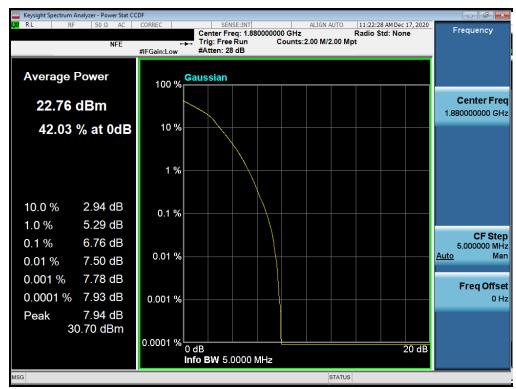
Plot 7-113. PAR Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)



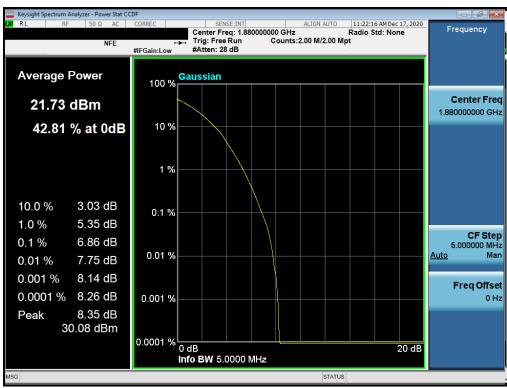
Plot 7-114. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	<mark>⊕</mark> LG	Approved by: Technical Manager
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Plot 7-115. PAR Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)



Plot 7-116. PAR Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)

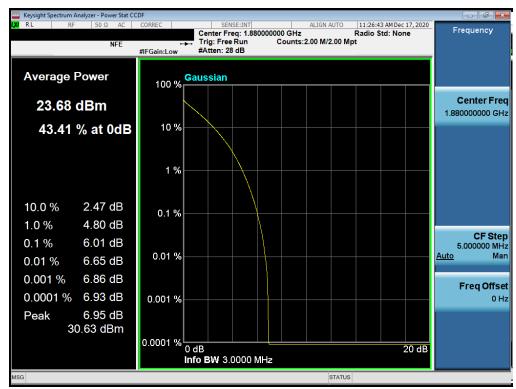
FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	LG	Approved by: Technical Manager
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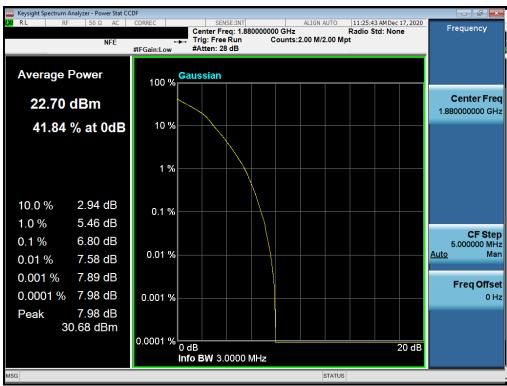
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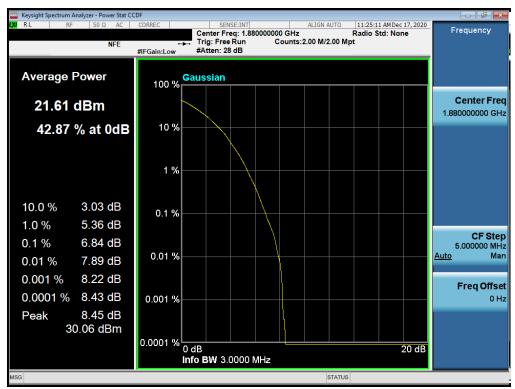
Plot 7-117. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



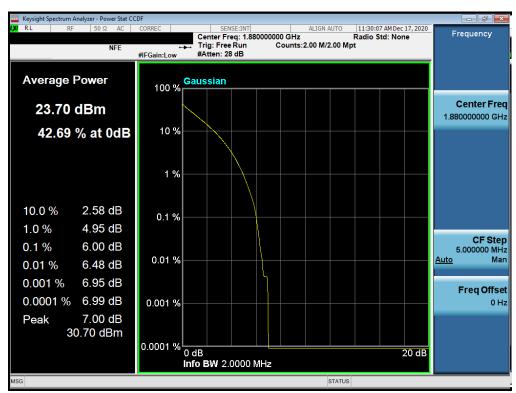
Plot 7-118. PAR Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFK420TM	PCTEST* Proud to be part of a element	PART 24 MEASUREMENT REPORT	⊕ LG	Approved by: Technical Manager
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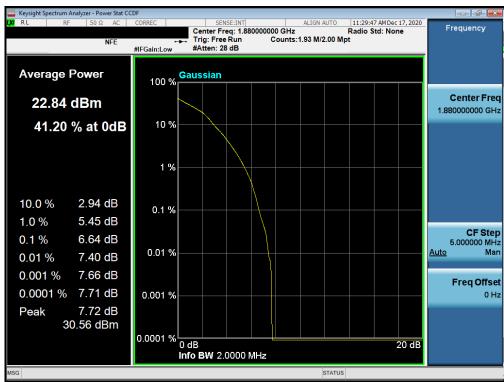
Plot 7-119. PAR Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)



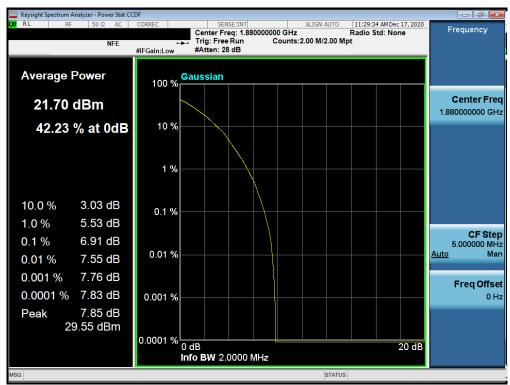
Plot 7-120. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

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Plot 7-121. PAR Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)



Plot 7-122. PAR Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

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