



FCC RADIO TEST REPORT

FCC ID : PY7-48130K

Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII

a/b/g/n/ac, GPS and NFC

Brand Name : Sony

Applicant : Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku,

Tokyo, 140-0002, Japan

Manufacturer : Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku,

Tokyo, 140-0002, Japan

Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Nov. 01, 2018 and testing was started from Apr. 09, 2019 and completed on Apr. 23, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Appendix A. Test Results of Conducted Test

Appendix B. Test Results of ERP and Radiated Test

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Report Version

: 03

Report Template No.: BU5-FGLTE90S Version 2.4

History of this test report

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Report No.	Version	Description	Issued Date
FG8O2421-03C	01	Initial issue of report	May 09, 2019
FG8O2421-03C	02	Revising the test data	May 14, 2019
FG8O2421-03C	03	Add the description of test plan in Summary	May 16, 2019

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Summary of Test Result

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Report Ref Std. Clause Clause		Test Items	Result (PASS/FAIL)	Remark		
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-		
3.3	-	Peak-to-Average Ratio	Reporting only	-		
3.4		Occupied Bandwidth and 26dB Bandwidth	Reporting only	-		
3.5	§2.1051 §90.691	Emission masks – In-band emissions	Pass	-		
3.6	§2.1051 §90.691	Emission masks – Out of band emissions	Pass	-		
3.7	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	Pass	-		
3.8	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 44.56 dB at 3312.000 MHz		

Remark: For the cellular LTE bands not only LTE B2/B4/B25/B66, but all bands have been fully tested per customer request.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh

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1 General Description

1.1 Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, NFC, and GNSS.

Standards-related Product Specification							
Antenna Type	Monopole / Loop Antenna						

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EUT Information List									
HW Version	SW Version	S/N	Performed Test Item						
		BH97007BFR	Conducted Measurement						
А	2.37	QV71005D1S QV71005J1S	ERP/EIRP Test Radiated Spurious Emission						

Accessory List						
AC Adapter	Model No.: UCH32					
AC Adapter	S/N: 6218W30200140					
	Model No.: MH750					
Earphone	S/N: N/A					
LICD Cable	Model No.: UCB24					
USB Cable	S/N:N/A					
2 in 4 USB Audia Cabla	Model No.: EC270					
2 in 1 USB Audio Cable	S/N:N/A					

Note:

- 1. Above EUT list used are electrically identical per declared by manufacturer.
- **2.** Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
- 3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

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1.3 Emission Designator

Ľ	TE Band 26		QPSK			16QAM		64QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
1.4	814.7 ~ 823.3	1M09G7D	-	0.0776	1M09W7D	-	0.0579	1M09W7D		0.0459	
3	815.5 ~ 822.5	2M72G7D	1	0.0776	2M72W7D	1	0.0587	2M72W7D		0.0452	
5	816.5 ~ 821.5	4M49G7D	1	0.0780	4M48W7D	1	0.0600	4M48W7D		0.0468	
10	819.0	9M03G7D	0.0114	0.0757	9M01W7D	-	0.0598	9M03W7D		0.0456	
15	821.5	13M4G7D	0.0035	0.0783	13M4W7D	-	0.0601	13M4W7D		0.0473	

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.					
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978					
Test Site No.	Sporton Site No. TH05-HY					

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.					
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855					
Test Site No.	Sporton Site No. 03CH10-HY					

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

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1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

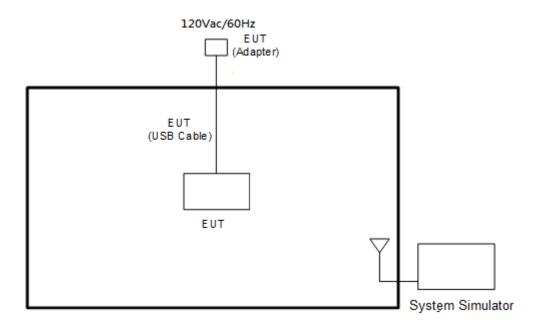
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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted	David	Bandwidth (MHz)				Modulation				RB#		Test Channel				
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	26	٧	٧	٧	v	v	ı	v	v	v	٧	v	v	V	٧	v
Peak-to-Average Ratio	26					v	-	v	v	v	٧		v	V	٧	v
26dB and 99% Bandwidth	26	V	V	v	v	v	-	v	v	v			v	v	v	v
Emission masks In-band emissions	26	٧	٧	٧	v	v	-	v	v	v	٧		v	v		v
Emission masks – Out of band emissions	26	٧	>	>	v	v	1	V	v	v	>			v	>	>
Frequency Stability	26	ı	ı		v	v	ı	٧	v	v			v		>	
E.R.P.	26					v	ı	٧	v	v	>	v	v	V	>	٧
Radiated Spurious Emission	Worst Case							V	٧	v						
Remark	 The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 															

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2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord	
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m	

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.2 + 10 = 14.2 (dB)

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2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
15	Channel	26765	-	-					
15	Frequency	821.5	-	-					
10	Channel	-	26740	-					
10	Frequency	-	819	-					
5	Channel	26715	26740	26765					
5	Frequency	816.5	819	821.5					
3	Channel	26705	26740	26775					
3	Frequency	815.5	819	822.5					
1.4	Channel	26697	26740	26783					
1.4	Frequency	814.7	819	823.3					

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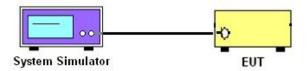
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

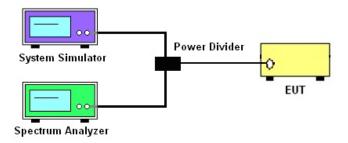
3.1.1 Test Setup

3.1.2 Conducted Output Power

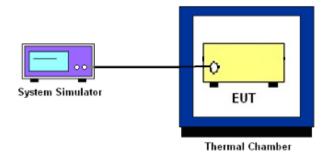


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, Emissions Mask – Out Of Band Emissions, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The ERP of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Reporting only

3.3.2 Test Procedures

- 1. The EUT was connected to spectrum and system simulator via a power divider.
- 2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.

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- 3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

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3.5 Emissions Mask Measurement

3.5.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a)

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- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $\log_{10}(f/6.1)$ decibels or 50 + 10 $\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.5.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- 3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the measured by KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.
- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- 3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approv License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge, RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

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3.6 Emissions Mask - Out Of Band Emissions Measurement

3.6.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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3.6.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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3.8 Field Strength of Spurious Radiation Measurement

3.8.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

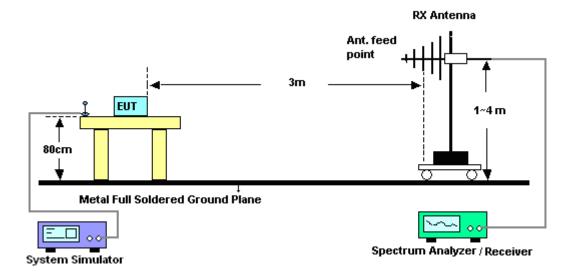
3.8.2 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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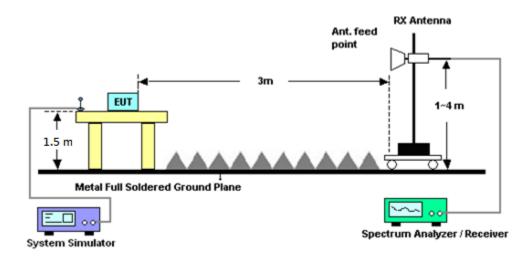
3.8.3 Test Setup

For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.8.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 14, 2018	Apr. 17, 2019~ Apr. 20, 2019	Oct. 13, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Apr. 17, 2019~ Apr. 20, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Aug. 29, 2018	Apr. 17, 2019~ Apr. 20, 2019	Aug. 28, 2019	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 02, 2018	Apr. 17, 2019~ Apr. 20, 2019	Oct. 01, 2019	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 14, 2019	Apr. 17, 2019~ Apr. 20, 2019	Jan. 13, 2020	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Apr. 09, 2019~ Apr. 23, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&0080 0N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Apr. 09, 2019~ Apr. 23, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Apr. 09, 2019~ Apr. 23, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Horn Antenna	ESCO	3117	00211469	1GHz~18GHz	Aug. 06, 2018	Apr. 09, 2019~ Apr. 23, 2019	Aug. 05, 2019	Radiation (03CH10-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	May 15, 2017	Apr. 09, 2019~ Apr. 23, 2019	May 14, 2019	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY5327007 8	1GHz~26.5GHz	Oct. 28, 2018	Apr. 09, 2019~ Apr. 23, 2019	Oct. 27, 2019	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY5420048 5	10Hz ~ 44GHz	Nov. 02, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 09, 2019~ Apr. 23, 2019	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Apr. 09, 2019~ Apr. 23, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Apr. 09, 2019~ Apr. 23, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Apr. 09, 2019~ Apr. 23, 2019	N/A	Radiation (03CH10-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2018	Apr. 09, 2019~ Apr. 23, 2019	May 21, 2019	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91705 76	18GHz ~ 40GHz	May 08, 2018	Apr. 09, 2019~ Apr. 23, 2019	May 07, 2019	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91702 51	18GHz ~ 40GHz	Nov. 20, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 19, 2019	Radiation (03CH10-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E, MY11693/4P E, MY2855/2	30M-1G	Nov. 08, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E, MY11693/4P E, MY2855/2	1G-18G	Nov. 08, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Apr. 09, 2019~ Apr. 23, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Apr. 09, 2019~ Apr. 23, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCT/800/9 60-0.2/40-8S SK		N/A	Aug. 23, 2018	Apr. 09, 2019~ Apr. 23, 2019	Aug. 22, 2019	Radiation (03CH10-HY)
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Nov. 02, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Apr. 09, 2019~ Apr. 23, 2019	Nov. 01, 2019	Radiation (03CH10-HY)

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.47
Confidence of 95% (U = 2Uc(y))	3.17

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.48
Confidence of 95% (U = 2Uc(y))	3.46

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	4.00
Confidence of 95% (U = 2Uc(y))	4.00

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 26 Maximum Average Power [dBm]										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
15	1	0		23.67	-	-				
15	1	37		23.88	-	-				
15	1	74		23.99	-	-				
15	36	0	QPSK	23.22	-	-				
15	36	20		22.93	-	-				
15	36	39		23.15	-	-				
15	75	0		22.91	-	-				
15	1	0		22.69	-	-				
15	1	37		22.84	-	-				
15	1	74		22.84	-	-				
15	36	0	16-QAM	21.60	-	-				
15	36	20		21.45	-	-				
15	36	39		21.66	-	-				
15	75	0		21.56	-	-				
15	1	0		21.79	-	-				
15	1	37		21.80	-	-				
15	1	74		21.66	-	-				
15	36	0	64-QAM	20.70	-	-				
15	36	20		20.73	-	-				
15	36	39		20.55	-	_				
15	75	0		20.46	-	_				
10	1	0		-	23.80	-				
10	1	25		_	23.84	_				
10	1	49		-	23.70	-				
10	25	0	QPSK	-	23.06	_				
10	25	12		-	23.04	-				
10	25	25		-	22.88	-				
10	50	0		-	23.05	-				
10	1	0		_	22.79	_				
10	1	25		-	22.74	_				
10	1	49		-	22.82	_				
10	25	0	16-QAM	-	21.45	-				
10	25	12		-	21.58	_				
10	25	25		-	21.51	_				
10	50	0		-	21.34	_				
10	1	0		-	21.55	-				
10	1	25		-	21.64	-				
10	1	49		-	21.57	-				
10	25	0	64-QAM	-	20.35	-				
10	25	12		-	20.57	-				
10	25	25		-	20.28	-				
10	50	0		-	20.50	_				

		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		23.87	23.86	23.75
5	1	12		23.94	23.73	23.73
5	1	24		23.97	23.84	23.92
5	12	0	QPSK	22.74	22.93	22.69
5	12	7		22.87	23.08	22.69
5	12	13		22.98	23.05	22.99
5	25	0		23.06	22.76	22.88
5	1	0		22.29	22.43	22.40
5	1	12		22.63	22.47	22.66
5	1	24		22.55	22.83	22.63
5	12	0	16-QAM	21.47	21.31	21.29
5	12	7		21.53	21.39	21.20
5	12	13		21.65	21.29	21.35
5	25	0		21.39	21.22	21.45
5	1	0		21.37	21.62	21.57
5	1	12		21.50	21.43	21.47
5	1	24		21.71	21.75	21.28
5	12	0	64-QAM	20.22	20.26	20.21
5	12	7		20.33	20.51	20.36
5	12	13		20.60	20.36	20.34
5	25	0		20.43	20.11	20.47
3	1	0		23.88	23.61	23.50
3	1	8		23.92	23.90	23.90
3	1	14		23.95	23.91	23.67
3	8	0	QPSK	22.82	23.03	22.93
3	8	4		22.83	22.78	22.69
3	8	7		22.80	23.02	22.92
3	15	0		22.92	22.66	22.86
3	1	0		22.48	22.42	22.61
3	1	8		22.47	22.73	22.74
3	1	14		22.49	22.60	22.34
3	8	0	16-QAM	21.42	21.37	21.49
3	8	4		21.63	21.33	21.42
3	8	7		21.58	21.38	21.35
3	15	0		21.42	21.21	21.16
3	1	0		21.44	21.43	21.52
3	1	8		21.44	21.60	21.47
3	1	14		21.45	21.34	21.52
3	8	0	64-QAM	20.49	20.53	20.35
3	8	4		20.53	20.43	20.52
3	8	7		20.36	20.23	20.37
3	15	0		20.50	20.35	20.42

		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		23.55	23.90	23.55
1.4	1	3		23.95	23.90	23.79
1.4	1	5		23.80	23.78	23.68
1.4	3	0	QPSK	23.86	23.72	23.89
1.4	3	1		23.86	23.69	23.62
1.4	3	3		23.69	23.69	23.82
1.4	6	0		23.00	22.75	22.88
1.4	1	0		22.68	22.38	22.45
1.4	1	3		22.61	22.56	22.64
1.4	1	5		22.49	22.49	22.50
1.4	3	0	16-QAM	22.51	22.04	22.11
1.4	3	1		22.31	22.25	22.39
1.4	3	3		22.44	22.14	21.93
1.4	6	0		21.41	21.26	21.23
1.4	1	0		21.59	21.34	21.65
1.4	1	3		21.50	21.51	21.31
1.4	1	5		21.33	21.31	21.40
1.4	3	0	64-QAM	21.46	21.54	21.55
1.4	3	1		21.58	21.67	21.66
1.4	3	3		21.39	21.43	21.36
1.4	6	0		20.46	20.44	20.48

LTE Band 26

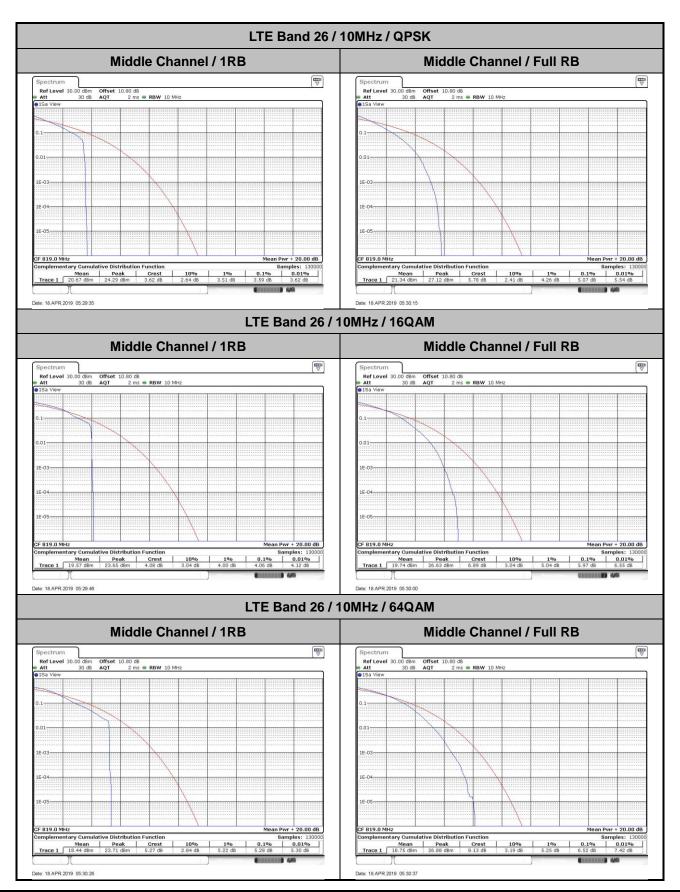
Peak-to-Average Ratio

Mode		LTE Band	26 / 10MHz			
Mod.	QP	SK	160	Limit: 13dB		
RB Size	1RB Full RB		1RB	Full RB	Result	
Lowest CH	-	-	-	-		
Middle CH	3.59	5.07	4.06	5.97	PASS	
Highest CH	-	-	-	-]	
Mode		LTE Band	26 / 10MHz			
Mod.	64Q	AM			Limit: 13dB	
RB Size	1RB	Full RB			Result	
Lowest CH	-	-	-	-		
Middle CH	5.28	6.52	-	-	PASS	
Highest CH	-	-	-	-		

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26dB Bandwidth

Mode		LTE Band 26 : 26dB BW(MHz)										
BW	1.4MHz 3MHz				5N	lHz	101	ИHz	15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.22	1.25	3.03	2.97	4.89	4.87	-	-	14.54	14.27	-	-
Middle CH	1.24	1.24	3.00	3.02	4.87	4.90	9.75	9.73	-	-	-	-
Highest CH	1.23	1.23	2.99	3.00	4.89	4.82	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	26dB BV	V(MHz)				
BW	1.4	ИНz	3M	lHz	5N	5MHz 10MHz			15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	2.99	-	4.89	-	-	-	14.69	-	-	-
Middle CH	1.21	-	2.97	-	4.93	-	9.71	-	-	-	-	-
Highest CH	1.23	-	3.03	-	4.85	-	-	-	-	-	1	-

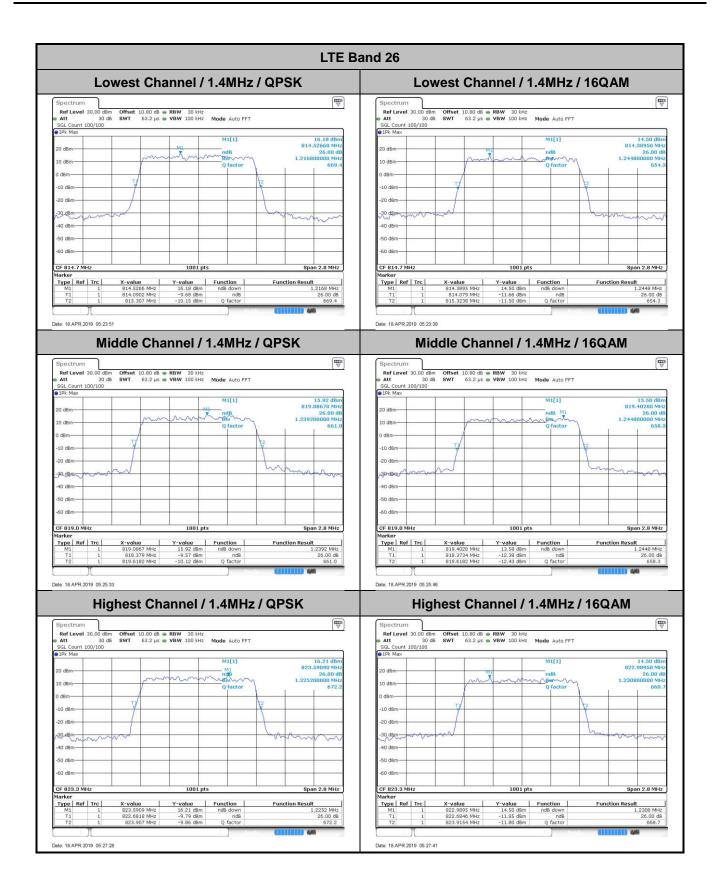
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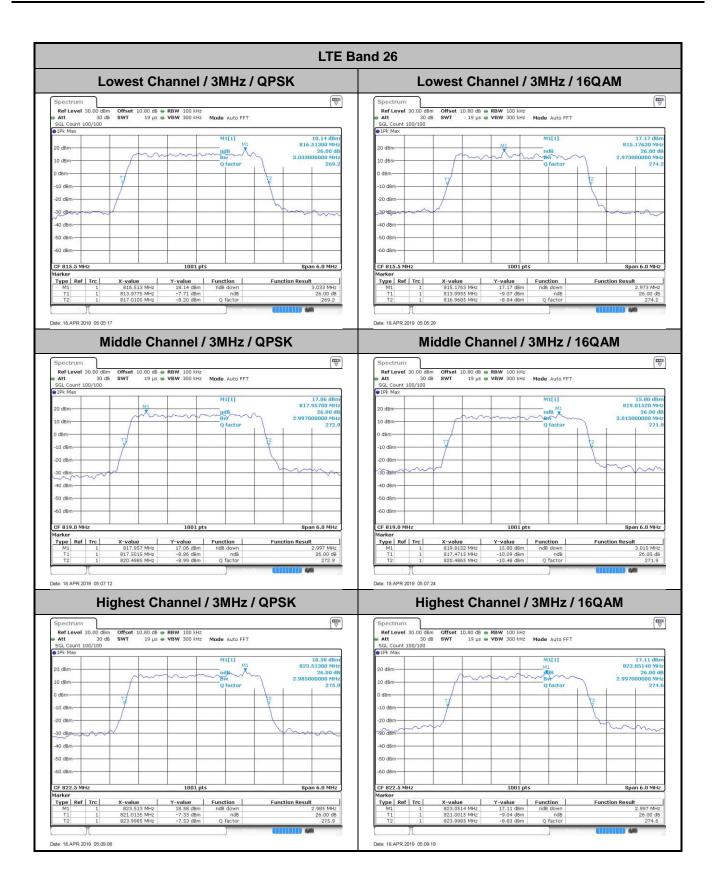


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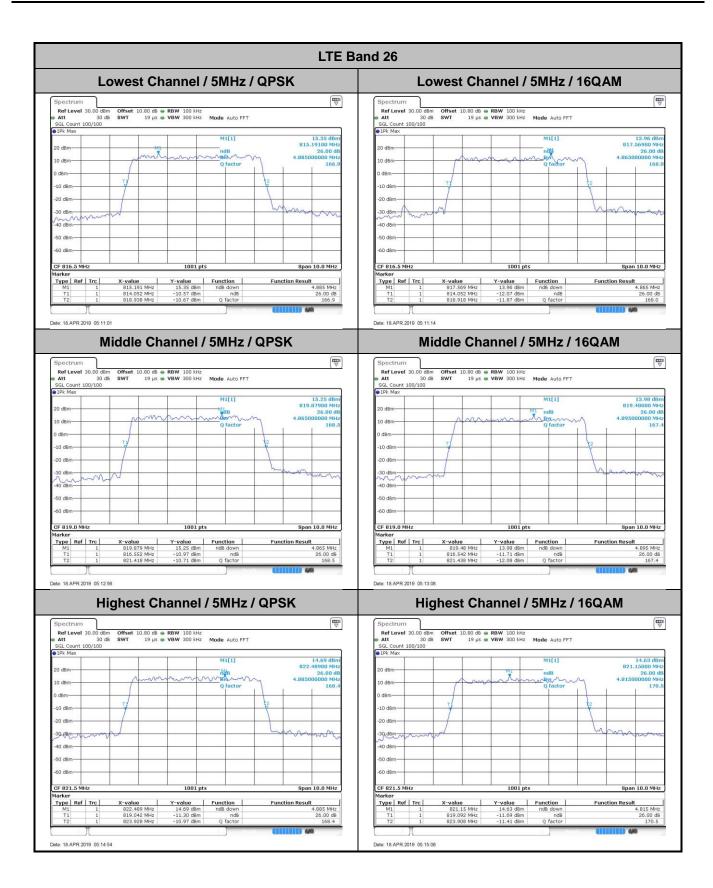


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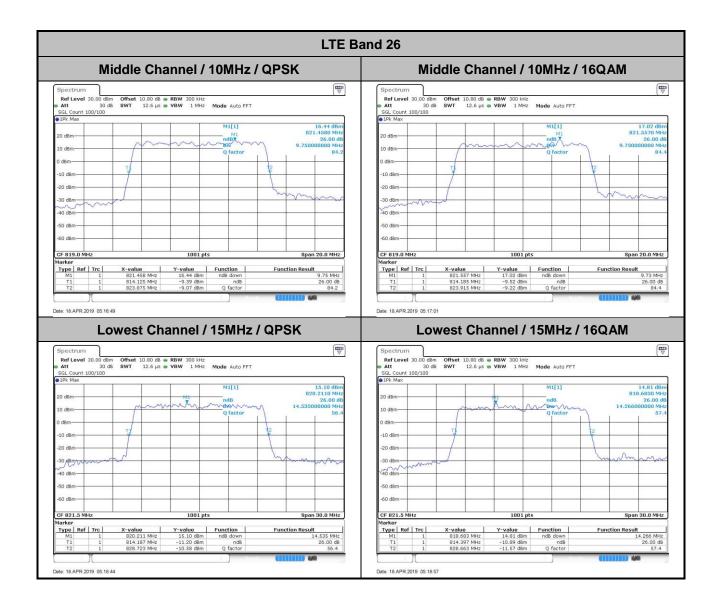
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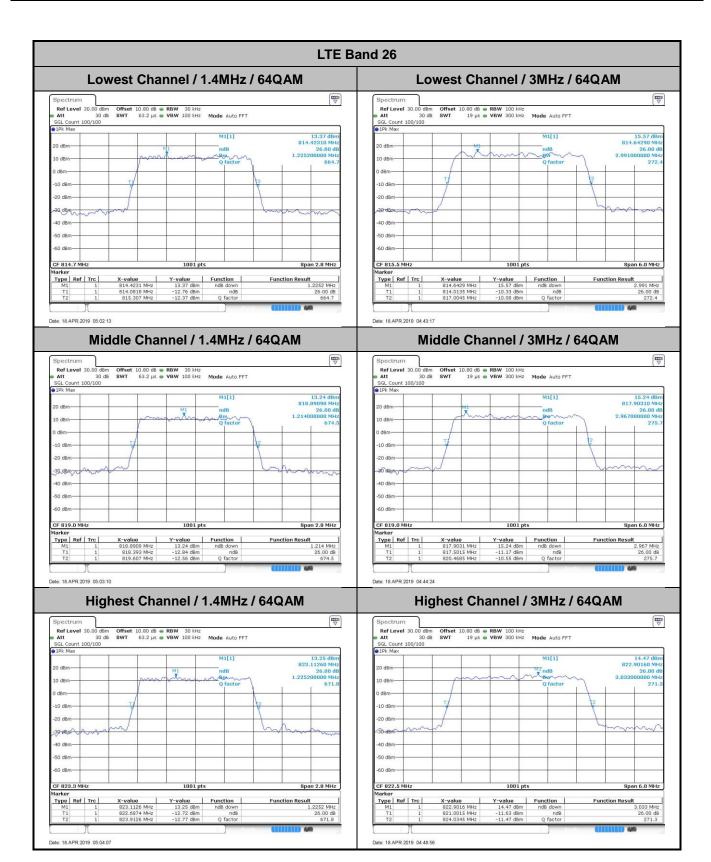
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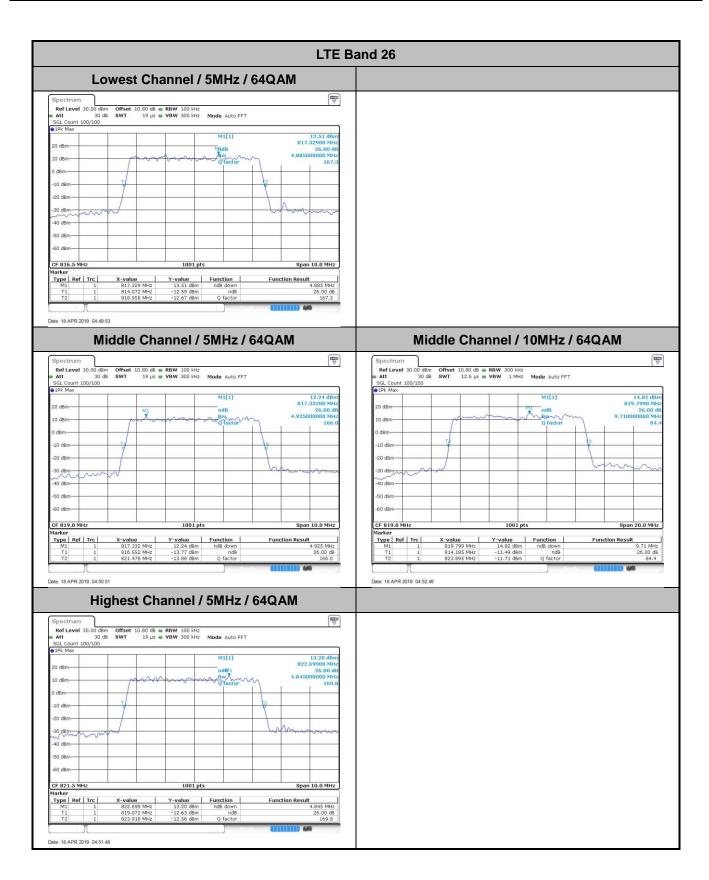
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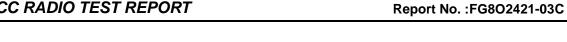


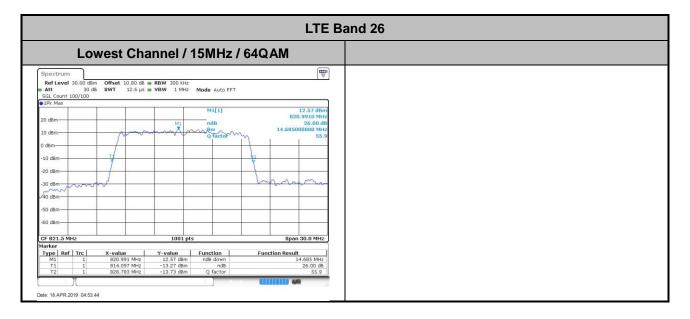
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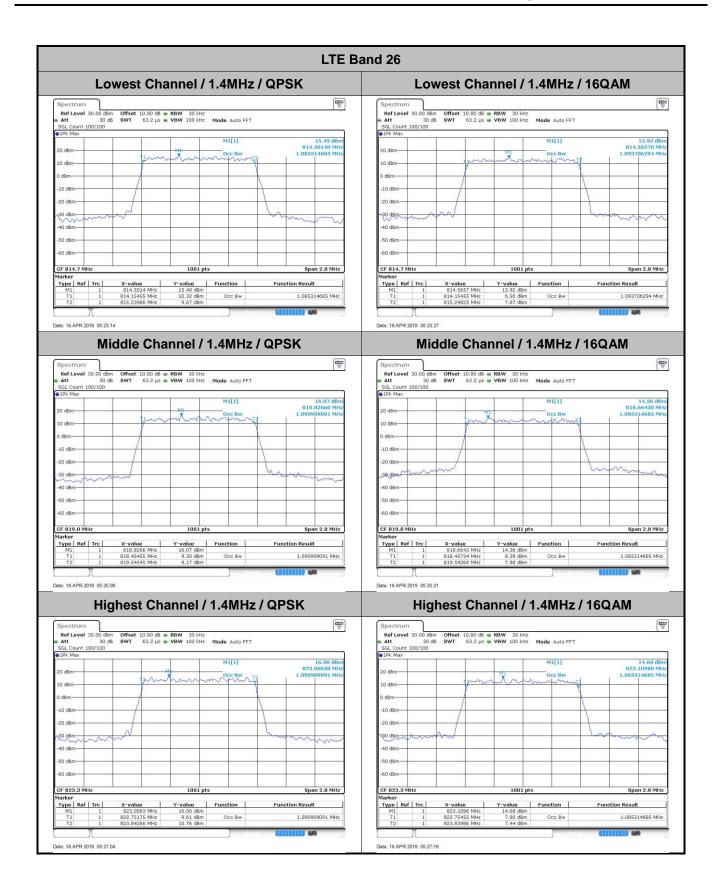
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Occupied Bandwidth

Mode					LTE Ba	and 26 :	99%OBV	V(MHz)				
BW	1.4MHz 3MHz				5MHz 10MHz			15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.72	4.48	4.48	-	-	13.40	13.43	-	-
Middle CH	1.09	1.09	2.72	2.72	4.49	4.48	9.03	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.71	4.49	4.48	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	99%OBV	V(MHz)				
BW	1.4	ИНz	3M	lHz	5MHz 10MHz			15MHz		20MHz		
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.71	-	4.48	-	-	-	13.40	-	-	-
Middle CH	1.08	-	2.72	-	4.48	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.71	-	4.46	-	-	-	-	-	-	-

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LTE Band 26 Lowest Channel / 3MHz / QPSK Lowest Channel / 3MHz / 16QAM 17.48 dBr 816.03950 MH 2.709290709 MH M1[1] 16.13 dBr 10 dBm -10 dBm--10 dBm -20 dBm 30 dBm -30 dBm 40 dBm -50 dBm 50 dBm -60 dBm -60 dBm-
 X-value
 Y-value
 Function
 Function Result

 816.0395 MHz
 17.48 dBm
 81.4835 MHz
 9.90 dBm
 Occ 8w
 2.70929

 816.85465 MHz
 9.76 dBm
 Occ 8w
 2.70929

 X-value
 Y-value
 Function

 814.3851 MHz
 16.13 dBm

 814.1337 MHz
 8.29 dBm
 Occ Bw

 816.84865 MHz
 10.25 dBm
 Type | Ref | Trc | Type | Ref | Trc | Date: 18.APR.2019 05:05:05 Middle Channel / 3MHz / QPSK Middle Channel / 3MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 100 kHz Att 0 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT SGL Count 100/100
 Ref Level
 30.00 dBm
 Offset
 10.80 dB
 RBW
 100 kHz
 Auto FFT

 Att
 30 dB
 SWT
 19 µs
 VBW
 300 kHz
 Mode
 Auto FFT
 SGL Count 100/100 1Pk Max 17.44 dBi 819.01800 MF 2.715284715 MF -20 dBm--20 dBm-40 dBm--50 dBm 50 dBm CF 819.0 MH CF 819.0 MHz 1001 pts Span 6.0 MHz Span 6.0 MHz 1001 pts X-value Y-value 819.7912 MHz 15.90 dBm 817.63337 MHz 9.13 dBm 820.35465 MHz 8.76 dBm Type Ref Trc
 X-value
 Y-value
 Function

 819.018 MHz
 17.44 dBm
 817.64835 MHz

 817.64835 MHz
 10.05 dBm
 Occ Bw

 820.36064 MHz
 11.32 dBm
 Function Result Function **Function Result** 2.715284715 MHz 2.721278721 MHz Date: 18 APR 2019 05:06:47 Date: 18 APR 2019 05:06:59 Highest Channel / 3MHz / QPSK Highest Channel / 3MHz / 16QAM 00 dBm Offset 30 dB SWT 1.80 dB **RBW** 100 kHz 19 µs **WBW** 300 kHz **Mode** Auto FFT Ref Level 30.00 SGL Count 100/100 16.54 dBm 821.96050 MHz 2.709290709 MHz 17.41 dBn 822.32628 MH 2.715284715 MH M1[1] 20 dBm dBm--10 dBm -20 dBm -20 dBr 40 dBm -50 d8m 50 dBm CF 822.5 MHz CF 822.5 MHz Span 6.0 MHz
 Marker
 Trc
 X-value
 Y-value
 Function
 Function Result

 M1
 1
 862.362 MHz
 17.44 dbm
 Punction
 9.27 MHz

 T1
 1
 821.4553 MHz
 11.48 dbm
 Occ Bw
 2.715284

 T2
 1
 823.66064 MHz
 11.76 dbm
 11.76 dbm

 Marker
 Trope
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 821.9605 MHz
 16.54 dbm
 16.54 dbm

 T1
 1
 821.15135 MHz
 8.90 dbm
 Occ Bw

 T2
 1
 823.86064 MHz
 8.91 dbm
 Occ Bw
 Function Result 2.715284715 MHz 2.709290709 MHz

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Date: 18.APR.2019 05:08:54



LTE Band 26 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM 13.66 dBn 815.09100 MH; 4.475524476 MH; 15.36 dBr 815.22100 MH 4.475524476 MH M1[1] M1[1] 10 dBm--10 dBm--20 dBm--30 dBm--50 d8m-50 dBm -60 dBm -60 dBm
 X-value
 Y-value
 Function
 Function Result

 815.221 MHz
 15.36 dBm
 Bb
 4.47552

 814.26224 MHz
 10.85 dBm
 Occ Bw
 4.47552

 818.73776 MHz
 9.85 dBm
 Occ Bw
 4.47552

 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 915.091 MHz
 13.66 dBm
 Type | Ref | Trc | Date: 18.APR.2019 05:10:49 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 100 kHz Att 0 30 db SWT 19 µs VBW 300 kHz Mode Auto FFT SGL Count 100/100
 Ref Level
 30.00 dBm
 Offset
 10.80 dB
 RBW
 100 kHz
 Auto FFT

 Att
 30 dB
 SWT
 19 µs
 VBW
 300 kHz
 Mode
 Auto FFT
 SGL Count 100/100 14.11 dBm 820.31900 MHz 4.475524476 MHz -20 dBm--20 dBm-50 dBm CF 819.0 MH CF 819.0 MHz 1001 pts Span 10.0 MHz 1001 pts Span 10.0 MHz
 X-value
 Y-value
 Function

 820.319 MHz
 14.11 dBm
 0cc Bw

 815.77223 MHz
 7.41 dBm
 0cc Bw

 821.24775 MHz
 7.90 dBm
 Type Ref Trc
 X-value
 Y-value
 Function

 819.879 MHz
 14.80 dBm
 815.76224 MHz

 915.76224 MHz
 9.40 dBm
 Occ 8w

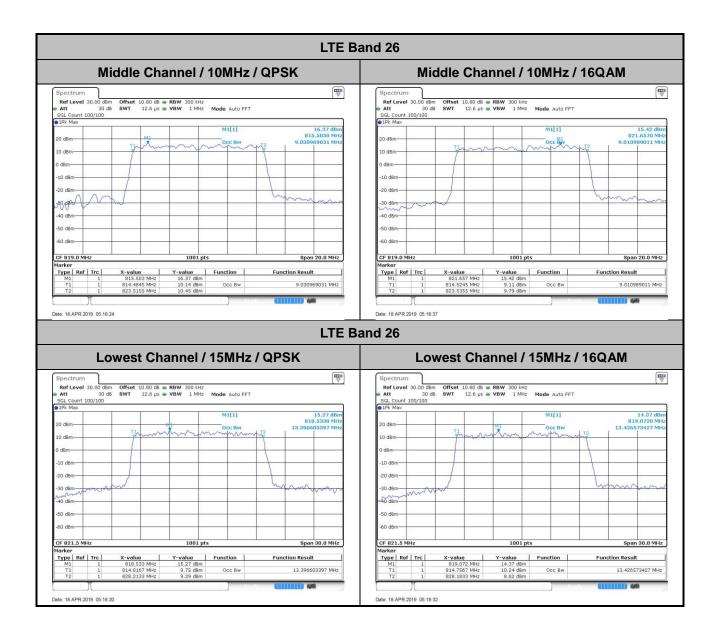
 821.24775 MHz
 9.75 dBm
 Type Ref Trc **Function Result Function Result** 4.485514486 MHz 4.475524476 MHz Date: 18 APR 2019 05:12:32 Date: 18 APR 2019 05:12:44 Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM 00 dBm Offset 30 dB SWT 10.80 dB **© RBW** 100 kHz 19 μs **© VBW** 300 kHz **Mode** Auto FFT Ref Level 30.00 SGL Count 100/100 SGL Count 100/100 91Pk Max 14.55 dBm 821.72000 MHz 4.475524476 MHz M1[1] 15.69 dBn 821.77000 MH 4.485514486 MH M1[1] 20 dBm dBm--10 dBm -20 dBm -20 dBm -30 dBm 40 dBm -50 dBm-50 dBm CF 821.5 MHz CF 821.5 MHz Span 10.0 MHz
 Marker
 Trope
 Ref
 Trc
 X-value
 Y-value
 Function
 Function Result

 M1
 1
 821.77 MHz
 15.69 dbm
 Punction
 11.2 Mm
 11.2 Mm</td 4.485514486 MHz 4.475524476 MHz

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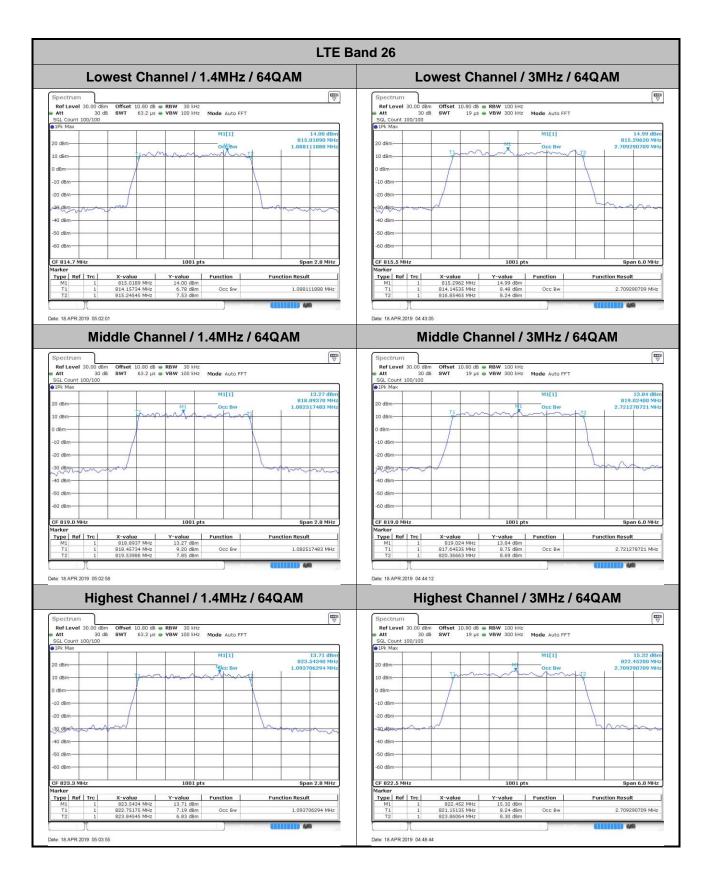
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Date: 18.APR.2019 05:14:41



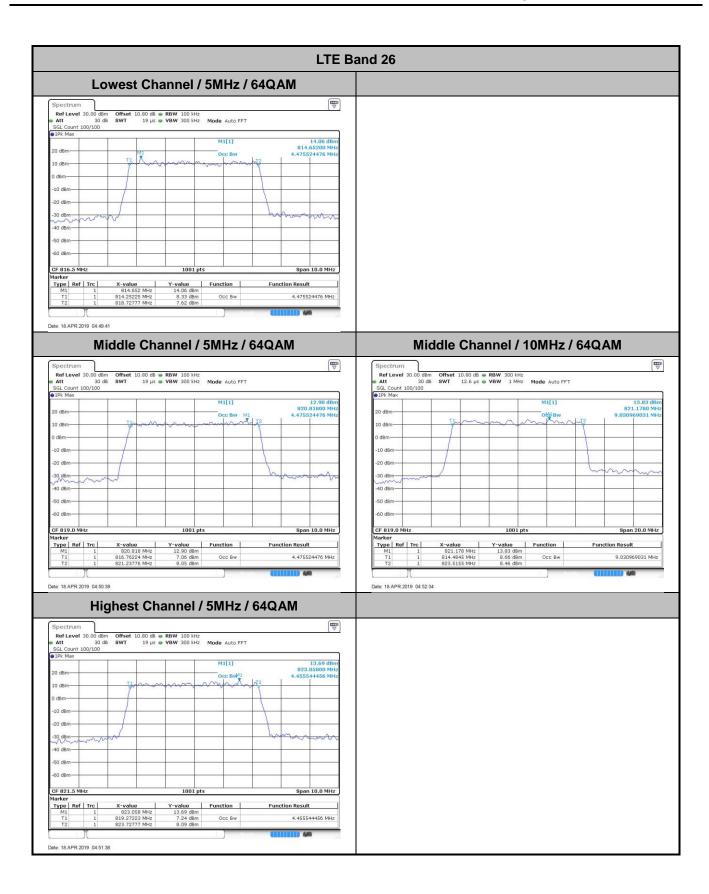
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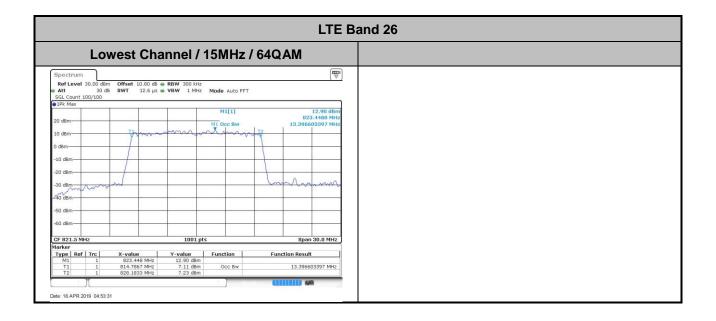
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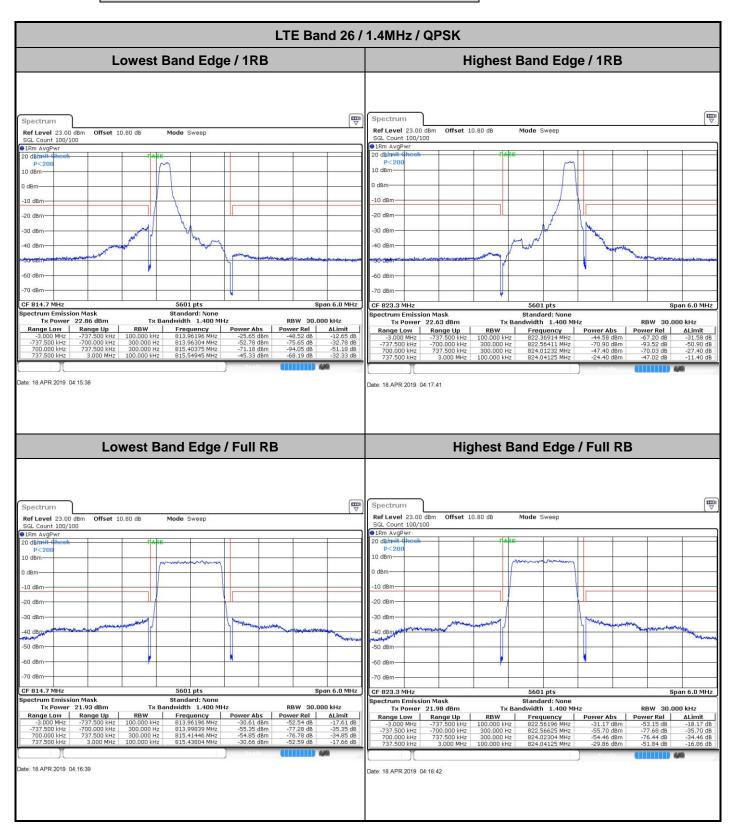
CC RADIO TEST REPORT Report No. :FG8O2421-03C



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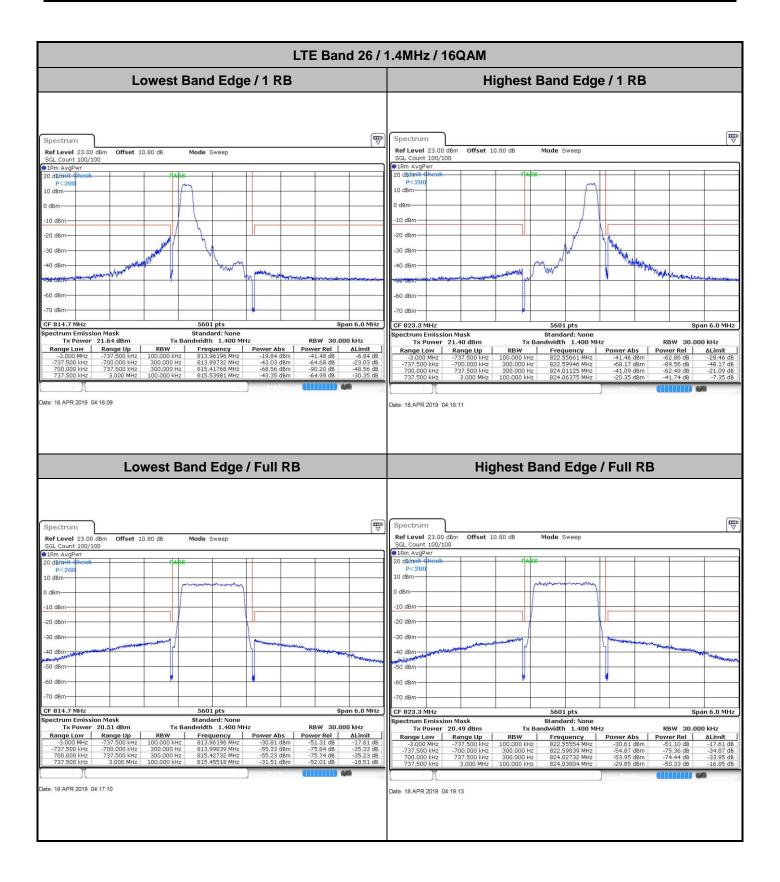
Emission masks - In-band emissions

Report No.: FG8O2421-03C



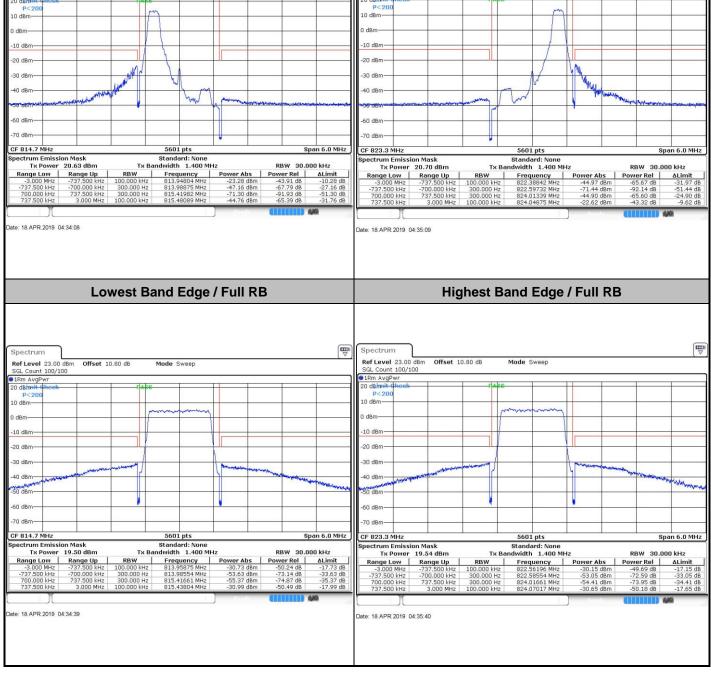
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Report No.: FG8O2421-03C LTE Band 26 / 1.4MHz / 64QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep Ref Level 23.00 Offset 10.80 dB Mode Sweep Count 100/100 AvgPwr SGL Count 100/100 10 dBm 20 dBn -20 dBm CF 814.7 MHz 5601 pts Span 6.0 MHz CF 823.3 MHz Dectrum Emission Mask
Tx Power 20.63 dBm
Range Low Range Up
-3.000 MHz -737 500 kHz Standard: None ndwidth 1.400 MHz RBW 30.000 kHz -10.28 dB -27.16 dB -51.30 dB -31.76 dB Frequency 813.94804 MHz Date: 18.APR.2019 04:34:08 Lowest Band Edge / Full RB **Highest Band Edge / Full RB W** Spectrum Ref Level 23.00 dBm Offset 10.80 dB SGL Count 100/100 Mode Sweep Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep SGL Count 100/100 ●1Rm AvgPwr -10 dBn 50 dBm



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