FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2083-3

FCC ID : IHDT56ZD6

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 21, 2020 and completely tested on Jun. 16, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW042102-01	Rev. 01	Initial issue of report	Jun. 24, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1049 §90.209	Reporting only		PASS	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts]) PASS		Under limit 28.09 dB at 8148.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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.

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1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago, IL60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago, IL60654 USA

1.3 Feature of Equipment Under Test

	Product Feature	
Equipment	Mobile Cellular Phone	
Brand Name	Motorola	
Model Name	XT2083-3	
FCC ID	IHDT56ZD6	
	GSM/WCDMA/LTE/NFC	
	WLAN 2.4GHz 802.11b/g/n HT20	
ELIT cumparta Badica application	WLAN 5GHz 802.11a/n HT20/HT40	
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80	
	Bluetooth BR/EDR/LE	
	FM Receiver and GNSS	
IMELCOA	Conducted: 355541110005257/355541110005265	
IMEI Code	Radiation: 355541110015058/355541110015066	
HW Version	DVT2	
SW Version	QPX30.34	
EUT Stage	Production Unit	

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Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. Sample1 is dual SIM card and sample 2 is single SIM card, the others are the same. So we chose dual SIM card sample to perform all tests.

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1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	23.26 dBm						
Antenna Gain	-2.70 dBi						
Type of Modulation	QPSK / 16QAM / 64QAM						

1.5 Modification of EUT

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

1.6 Specification of Accessory

	Specification of Accessory							
AC Adapter 1(US)	Brand Name	Motorola (Acbel)	Model Name	MC-201				
AC Adapter 1(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-202				
AC Adapter 1(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-203				
AC Adapter 1(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-205				
AC Adapter 1(AR)	Brand Name	Motorola (Acbel)	Model Name	MC-206				
AC Adapter 1(BR)	Brand Name	Motorola (Acbel)	Model Name	MC-207				
AC Adapter 1(Chile)	Brand Name	Motorola (Acbel)	Model Name	MC-209				
AC Adapter 2(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-201				
AC Adapter 2(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-202				
AC Adapter 2(UK)	Brand Name	Motorola (Chenyang)	Model Name	MC-203				
AC Adapter 2(IN)	Brand Name	Motorola (Chenyang)	Model Name	MC-204				
AC Adapter 2(AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-205				
AC Adapter 2(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-206				
AC Adapter 2(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-207				
AC Adapter 3(BR)	Brand Name	Motorola (Flex/Salom)	Model Name	SC-57				
AC Adapter 4(BR)	Brand Name	Motorola (Cliptech/Tenpao)	Model Name	SC-57				
Battery	Brand Name	Motorola(ATL)	Model Name	JK50				
Earphone 1	Brand Name	Motorola (New Leader)	Model Name	EM09-IN				
Earphone 2	Brand Name	Motorola (Juwei)	Model Name	JWEP1123-T03				
USB Cable 1	Brand Name	Motorola (Yihuaxing)	Model Name	T365-008				
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	STN-A110				

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1.7 Maximum Conducted Power, Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	BW	Frequency Tolerance (ppm)	Emission Designator	Maximum Conducted power(W)
Part 90S	LTE Band 26	QPSK	1.4 MHz	-	1M09G7D	0.2089
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M09W7D	0.1977
Part 90S	LTE Band 26	64QAM	1.4 MHz	-	1M09W7D	0.1483
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M73G7D	0.2056
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M73W7D	0.1910
Part 90S	LTE Band 26	64QAM	3 MHz	-	2M73W7D	0.1552
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M50G7D	0.2118
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M51W7D	0.1968
Part 90S	LTE Band 26	64QAM	5 MHz	-	4M50W7D	0.1476
Part 90S	LTE Band 26	QPSK	10 MHz	0.0055	8M97G7D	0.2109
Part 90S	LTE Band 26	16QAM	10 MHz	-	9M03W7D	0.1910
Part 90S	LTE Band 26	64QAM	10 MHz	-	9M01W7D	0.1552
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M5G7D	0.2094
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M5W7D	0.1901
Part 90S	LTE Band 26	64QAM	15 MHz	-	13M4W7D	0.1549

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1.8 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (F	Kunshan) Inc.				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone					
Test Site Location	Jiangsu Province 215300 People's Republic of China					
rest Site Location	TEL: +86-512-57900158					
	FAX: +86-512-57900958					
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
Test Site No.	03CH04-KS TH01-KS	CN1257	314309			

1.9 Test Software

lt	tem Site		Manufacture	Name	Version	
	1.	03CH04-KS	AUDIX	E3	6.2009-8-24a	

1.10 Applied Standards

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

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

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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Test Configuration of Equipment Under Test

Test Mode 2.1

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

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

-			Ва	ndwid	lth (Mi	Hz)		Modulation		RB#			Test Channel			
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	26	٧	٧	>	v	>	•	٧	٧	v	>	v	v	>	>	v
26dB and 99% Bandwidth	26	v	v	v	v	v		v	٧	v			v	v	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	v		v	v		٧
Emission masks – Out of band emissions	26	v	v	v	v	v	•	v	v	v	v			v	v	٧
Frequency Stability	26				v		-	v					v		v	
Radiated Spurious Emission	26	v	v	v	v	-	•	v			v				v	
Note	 The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 															

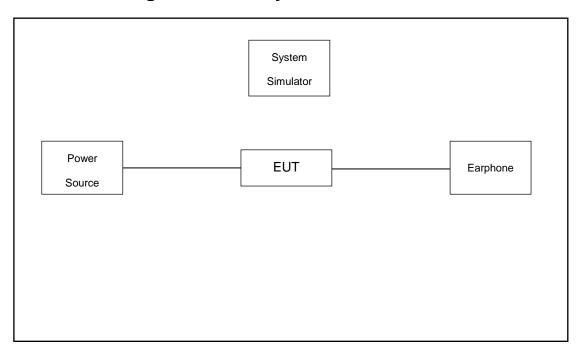
falls within part 22 also complies.

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2.2 Connection Diagram of Test System



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	MT8820C	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 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.

Offset = RF cable loss.

The following shows an offset computation example with RF cable loss 4.6 dB.

Example:

Offset(dB) = RF cable loss(dB).

= 4.6 (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					
45	Channel	26765	-	-					
15	Frequency	821.5	-	-					
40	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 1	Channel	26697	26740	26783					
1.4	Frequency	814.7	819	823.3					

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power 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.

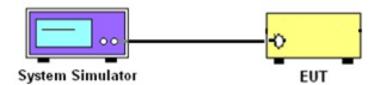
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the 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.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 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.

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.

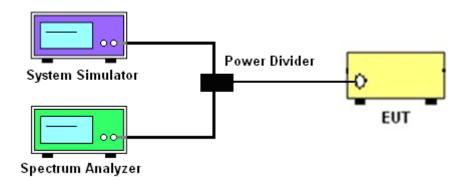
3.2.2 Measuring Instruments

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

3.2.3 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.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

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3.3 Emissions Mask Measurement

3.3.1 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):

- (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 Log₁₀(f/6.1) decibels or 50 + 10 Log₁₀(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 + 10Log₁₀(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.

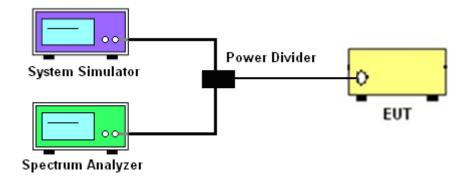
3.3.2 Measuring Instruments

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

3.3.3 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.
- The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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3.4 Emissions Mask - Out Of Band Emissions Measurement

3.4.1 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.

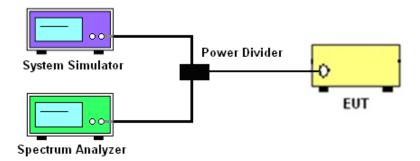
3.4.2 Measuring Instruments

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

3.4.3 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. 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.
- 7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

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3.5 Field Strength of Spurious Radiation Measurement

3.5.1 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.

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.

3.5.2 Measuring Instruments

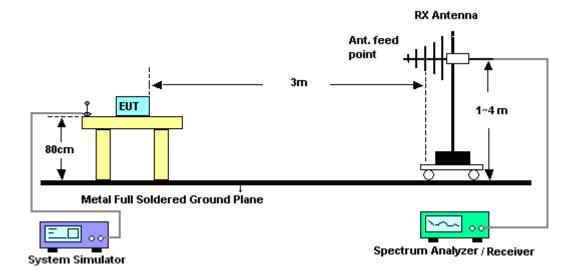
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

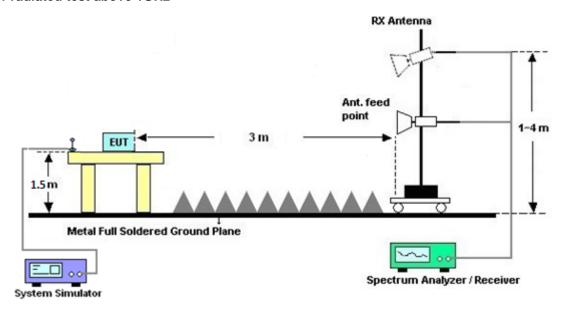
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position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

3.5.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 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.

3.6.4 Test Procedures for Voltage Variation

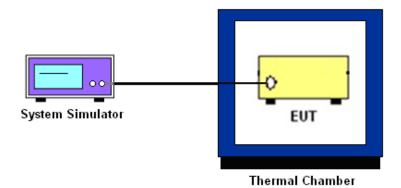
- 1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
- 4. battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

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3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	May 07, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 28, 2019	May 07, 2020	Oct. 27, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY5515024 4	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jun. 16, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49221	30MHz-1GHz	Jun. 19, 2019	Jun. 16, 2020	Jun. 18, 2020	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120 D	1356	1GHz~18GHz	Apr. 20, 2020	Jun. 16, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jun. 16, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Jun. 16, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jun. 16, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30- 10P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Jun. 16, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY5728010 6	500MHz~26.5G Hz	Oct. 15, 2019	Jun. 16, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 16, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 16, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 16, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	3.3dB

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

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

_	-	
	Measuring Uncertainty for a Level of	2.8dB
	Confidence of 95% (U = $2Uc(y)$)	2.0UD

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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

			LTE Ban	d 26 Maximum Average F	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		23.21		
15	1	37		22.89		
15	1	74		23.19		
15	36	0	QPSK	22.65		
15	36	20		22.40		
15	36	39		22.35		
15	75	0		22.45		
15	1	0		22.56		
15	1	37		22.40		
15	1	74		22.79		
15	36	0	16-QAM	21.63	-	-
15	36	20		21.38		
15	36	39		21.38		
15	75	0		21.43		
15	1	0		21.68		
15	1	37		21.54		
15	1	74		21.90		
15	36	0	64-QAM	20.51		
15	36	20		20.26		
15	36	39		20.46		
15	75	0		20.32		

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			LTE Ban	d 26 Maximum Average I	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0			23.01	
10	1	25			22.94	
10	1	49			23.24	
10	25	0	QPSK		22.67	
10	25	12			22.63	
10	25	25			22.78	
10	50	0			22.68	
10	1	0			22.69	
10	1	25			22.55	
10	1	49			22.81	
10	25	0	16-QAM	-	21.67	-
10	25	12			21.63	
10	25	25			21.72	
10	50	0			21.67	
10	1	0			21.80	
10	1	25			21.61	
10	1	49			21.91	
10	25	0	64-QAM		20.54	
10	25	12			20.51	
10	25	25			20.60	
10	50	0			20.52	

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			LTE Ban	d 26 Maximum Average I	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		23.08	23.11	22.89
5	1	12		23.10	23.26	23.06
5	1	24		23.11	23.23	23.10
5	12	0	QPSK	22.49	22.66	22.43
5	12	7		22.46	22.62	22.43
5	12	13		22.50	22.65	22.40
5	25	0		22.48	22.61	22.41
5	1	0		22.78	22.89	22.69
5	1	12		22.73	22.85	22.61
5	1	24		22.74	22.94	22.66
5	12	0	16-QAM	21.50	21.67	21.46
5	12	7		21.46	21.63	21.45
5	12	13		21.45	21.63	21.42
5	25	0		21.47	21.60	21.44
5	1	0		21.55	21.69	21.48
5	1	12		21.47	21.62	21.42
5	1	24		21.50	21.69	21.43
5	12	0	64-QAM	20.34	20.54	20.33
5	12	7		20.32	20.49	20.30
5	12	13		20.34	20.49	20.30
5	25	0		20.37	20.47	20.31

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			LTE Ban	d 26 Maximum Average I	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		23.13	23.12	22.86
3	1	8		23.06	22.89	22.86
3	1	14		23.11	22.86	22.87
3	8	0	QPSK	22.67	22.74	22.49
3	8	4		22.63	22.76	22.46
3	8	7		22.78	22.75	22.50
3	15	0		22.68	22.40	22.48
3	1	0		22.69	22.34	22.44
3	1	8		22.55	22.46	22.39
3	1	14		22.81	22.41	22.40
3	8	0	16-QAM	21.65	21.41	21.54
3	8	4		21.61	21.45	21.44
3	8	7		21.70	21.41	21.43
3	15	0		21.67	21.53	21.47
3	1	0		21.80	21.44	21.55
3	1	8		21.61	21.50	21.47
3	1	14		21.91	21.47	21.50
3	8	0	64-QAM	20.54	20.32	20.34
3	8	4		20.51	20.39	20.32
3	8	7		20.60	20.34	20.34
3	15	0		20.52	20.31	20.37

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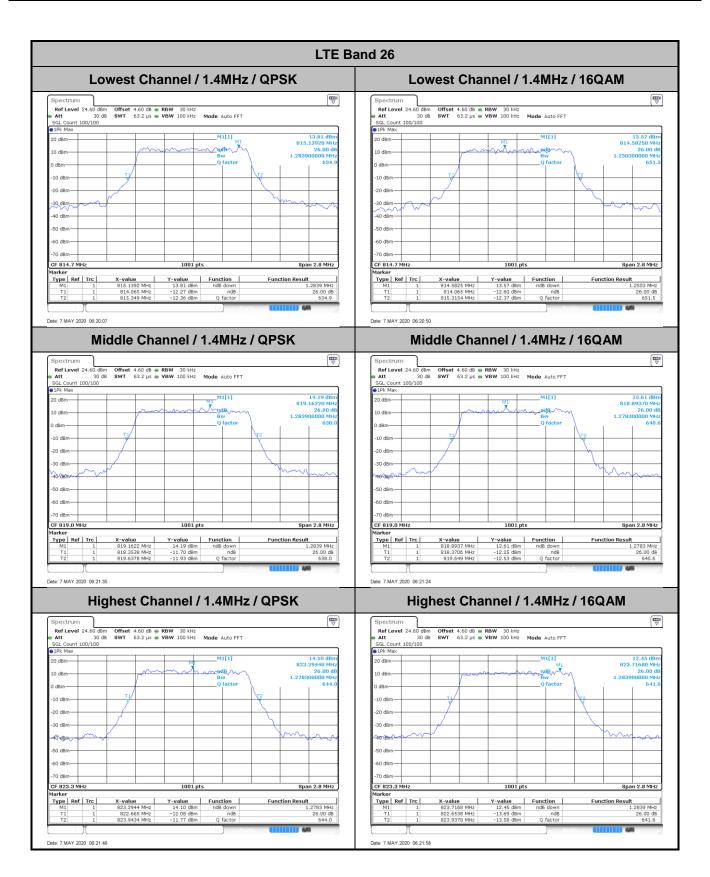
			LTE Ban	d 26 Maximum Average I	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		22.78	22.89	22.71
1.4	1	3		23.05	23.20	23.01
1.4	1	5		23.01	23.14	22.98
1.4	3	0	QPSK	23.08	23.18	22.98
1.4	3	1		23.08	23.20	23.00
1.4	3	3		23.04	23.20	22.99
1.4	6	0		22.46	22.60	22.40
1.4	1	0		22.79	22.90	22.68
1.4	1	3		22.80	22.96	22.80
1.4	1	5		22.76	22.93	22.75
1.4	3	0	16-QAM	22.58	22.68	22.43
1.4	3	1		22.54	22.72	22.47
1.4	3	3		22.53	22.70	22.43
1.4	6	0		21.53	21.69	21.53
1.4	1	0		21.52	21.61	21.44
1.4	1	3		21.52	21.71	21.50
1.4	1	5		21.49	21.63	21.47
1.4	3	0	64-QAM	21.46	21.56	21.32
1.4	3	1		21.47	21.61	21.39
1.4	3	3		21.44	21.57	21.34
1.4	6	0		20.34	20.51	20.31

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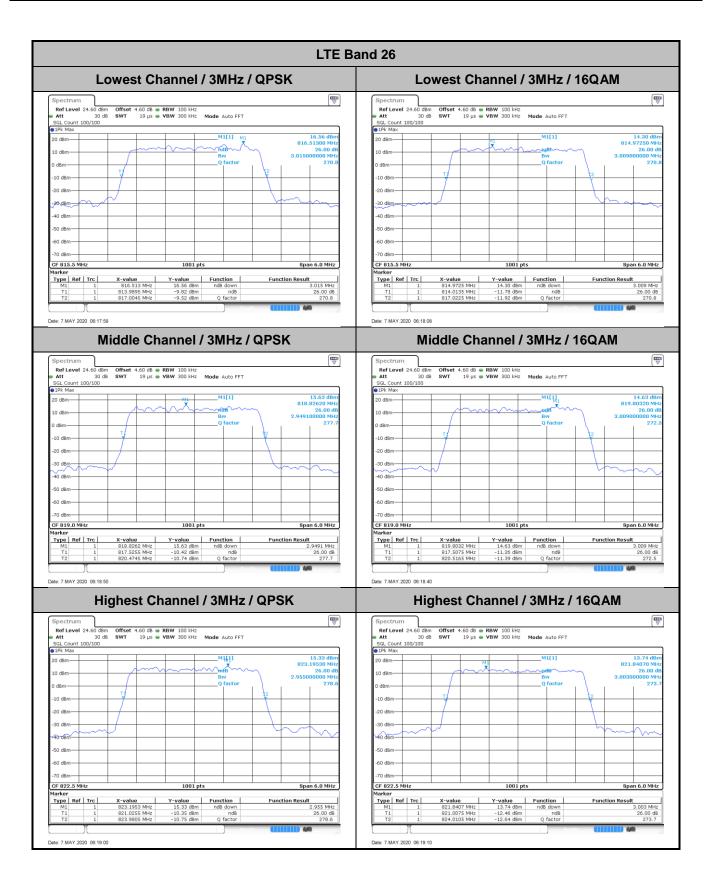
26dB Bandwidth

Mode		LTE Band 26 : 26dB BW(MHz)										
BW	1.4	ИНz	3M	lHz	5M	5MHz		10MHz		ИHz	20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.25	3.02	3.01	4.89	4.92	-	-	14.48	14.45	-	-
Middle CH	1.28	1.28	2.95	3.01	5.01	4.89	9.71	9.91	-	-	-	-
Highest CH	1.28	1.28	2.96	3.00	4.92	4.84	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	26dB BV	V(MHz)				
BW	1.4	ИНz	3M	lHz	5M	5MHz 10MHz 15MHz				ИHz	20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.29	-	2.99	-	4.89	-	-	-	14.15	-	-	-
Middle CH	1.28	-	3.01	-	4.91	-	10.03	-	-	-	-	-
Highest CH	1.28	-	2.96	-	4.96	-	-	-	-	-	-	-

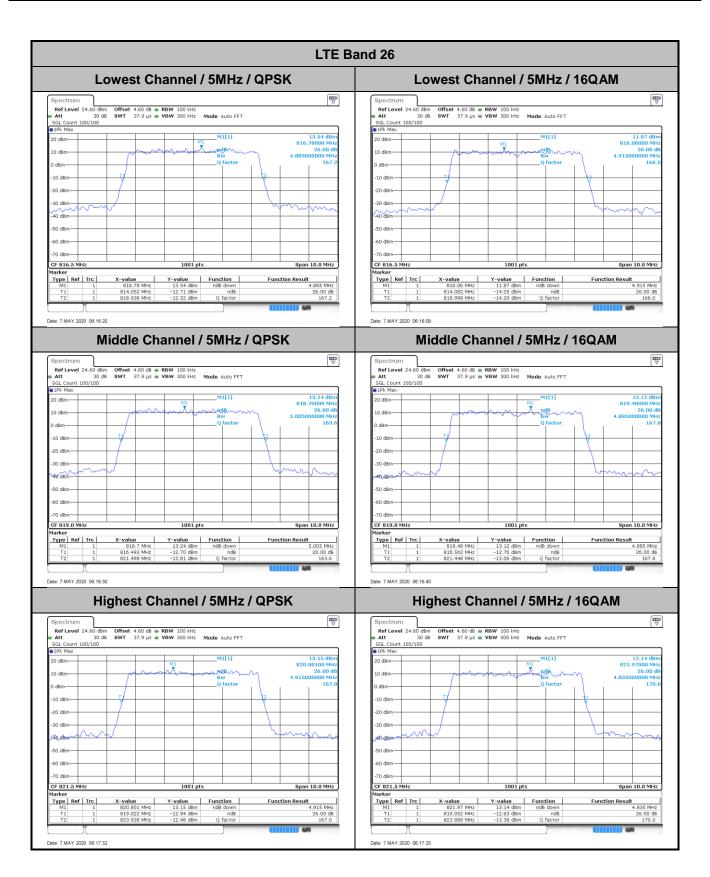
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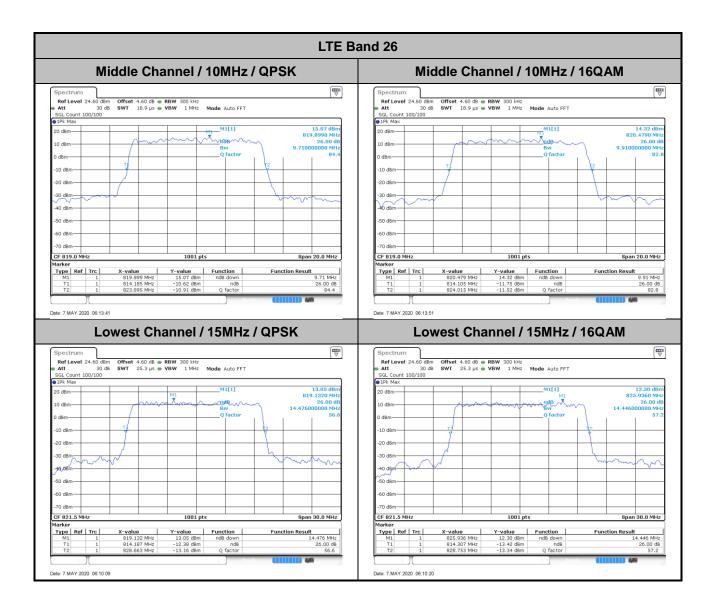
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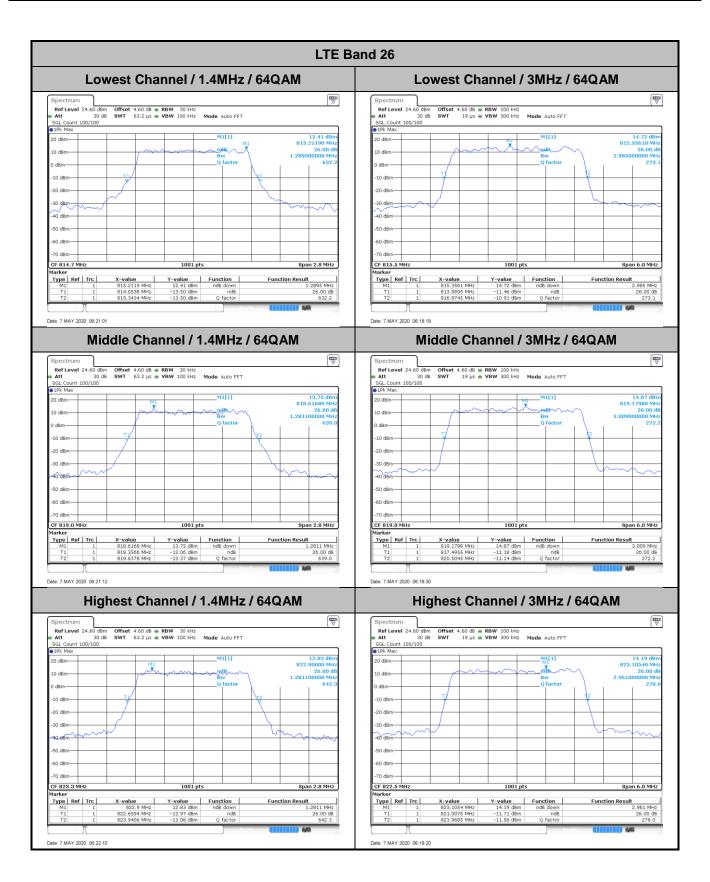
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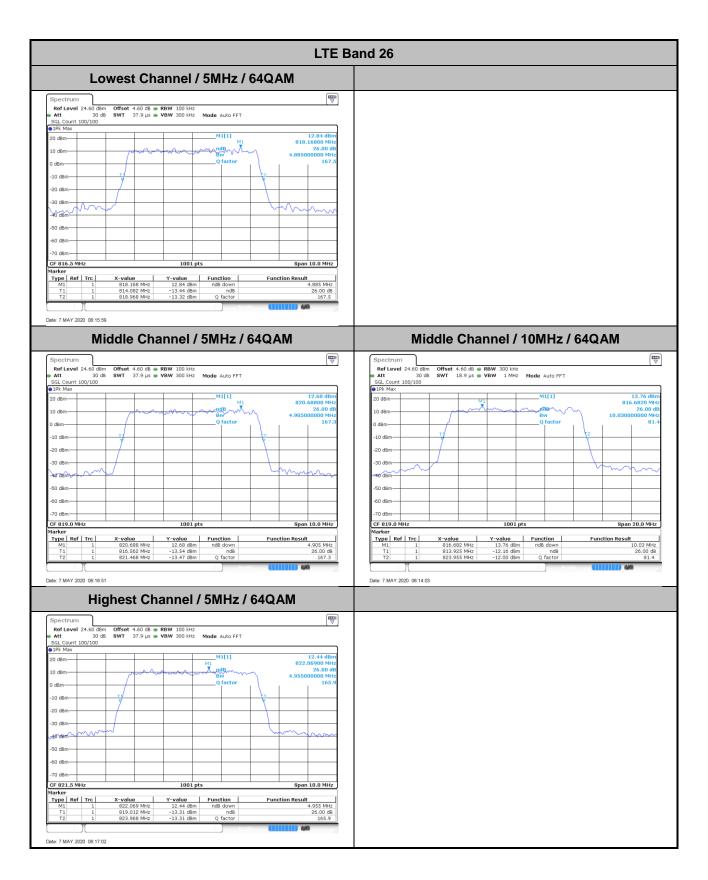
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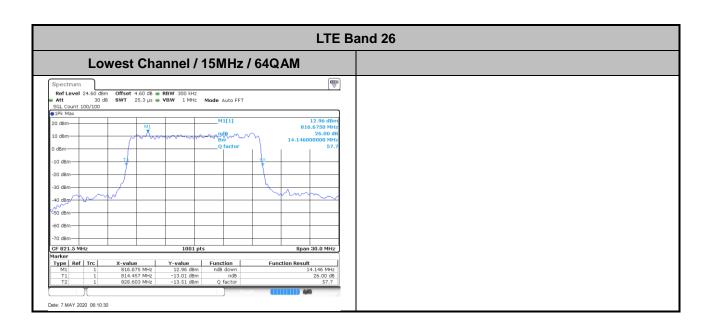
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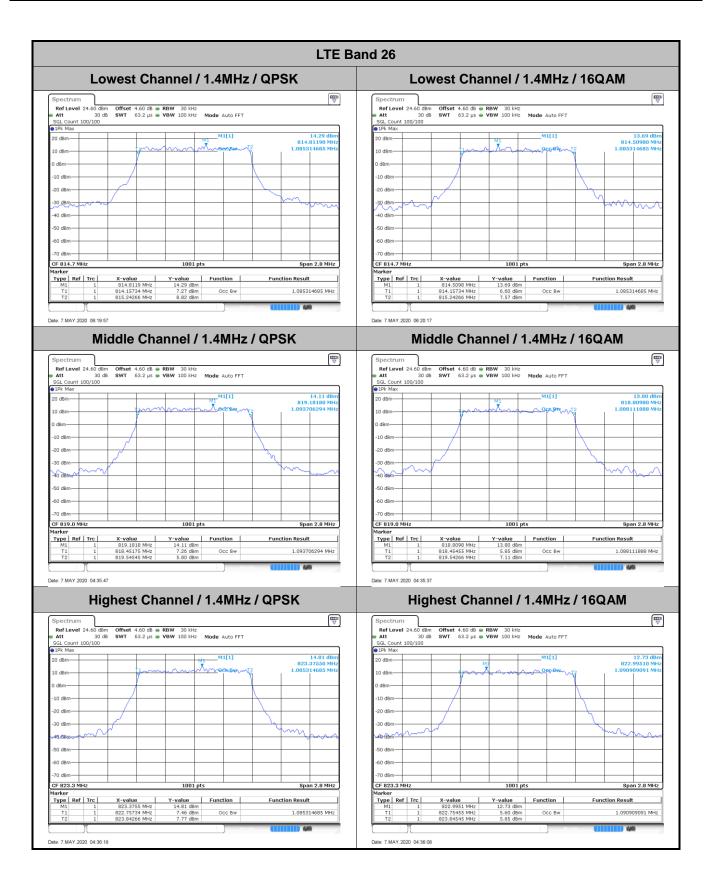


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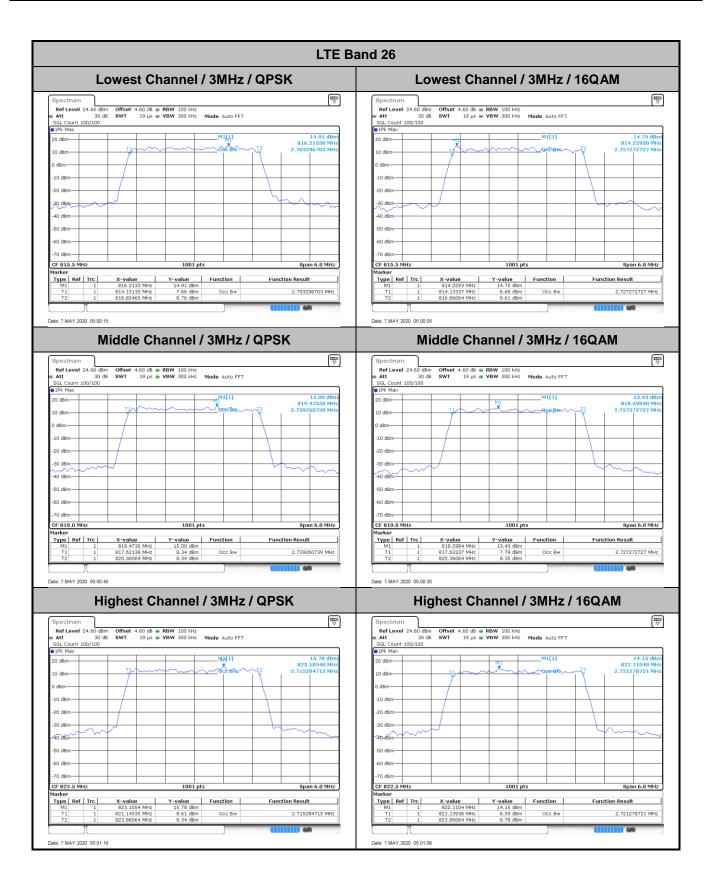
Occupied Bandwidth

Mode		LTE Band 26 : 99%OBW(MHz)											
BW	1.4	ИНz	3M	lHz	5M	lHz	101	ЛHz	15N	ЛHz	20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	1.09	1.09	2.70	2.73	4.51	4.52	-	-	13.46	13.49	-	-	
Middle CH	1.09	1.09	2.74	2.73	4.49	4.49	9.07	9.03	-	-	-	-	
Highest CH	1.09	1.09	2.72	2.72	4.50	4.50	-	-	-	-	-	-	
Mode					LTE Ba	and 26 :	99%OBV	V(MHz)					
BW	1.4	ИНz	3M	lHz	5MHz 10MHz				15N	15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM		
Lowest CH	1.09	-	2.72	-	4.49	-	-	-	13.40	-	-	-	
Middle CH	1.09	-	2.71	-	4.49	-	9.01	-	-	-	-	-	
Highest CH	1.10	-	2.73	-	4.51	-	-	-	-	-	-	-	

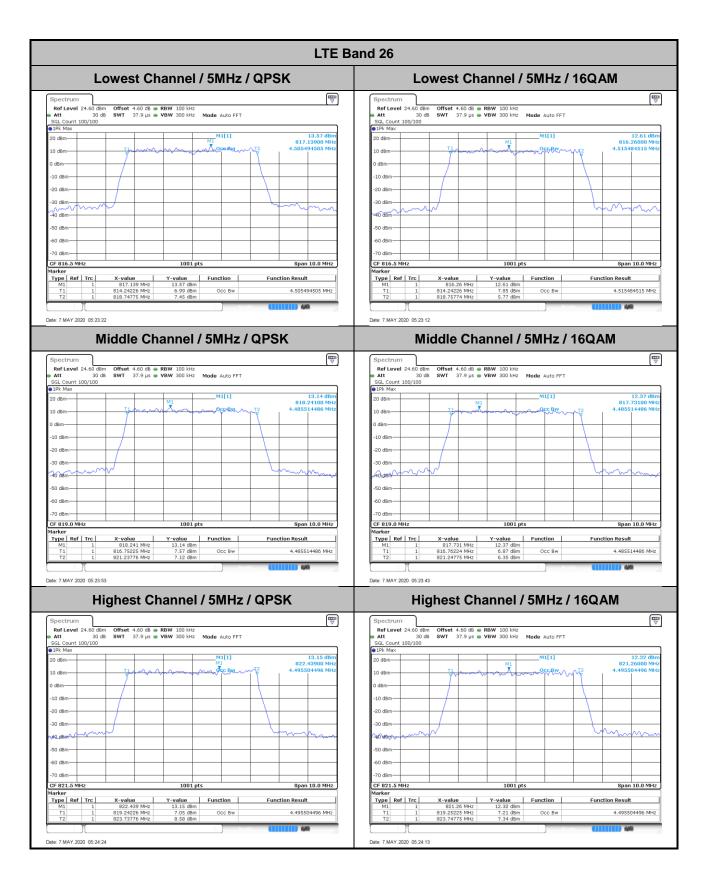
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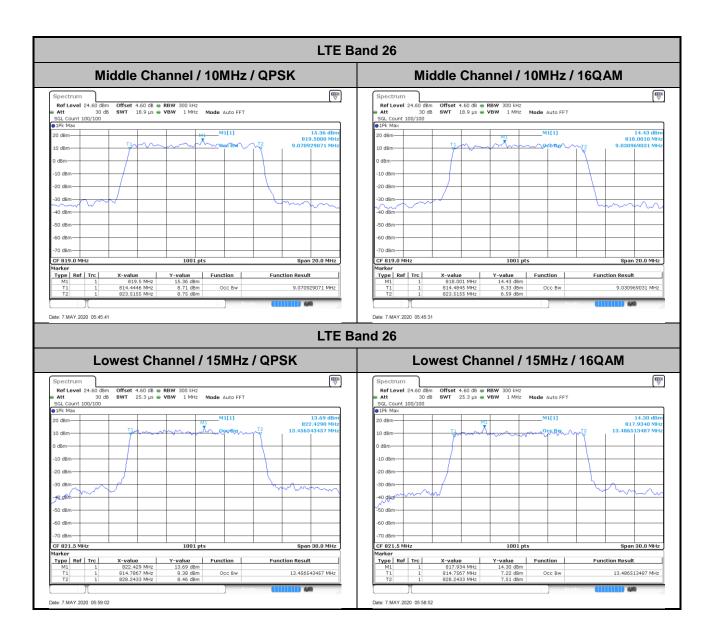
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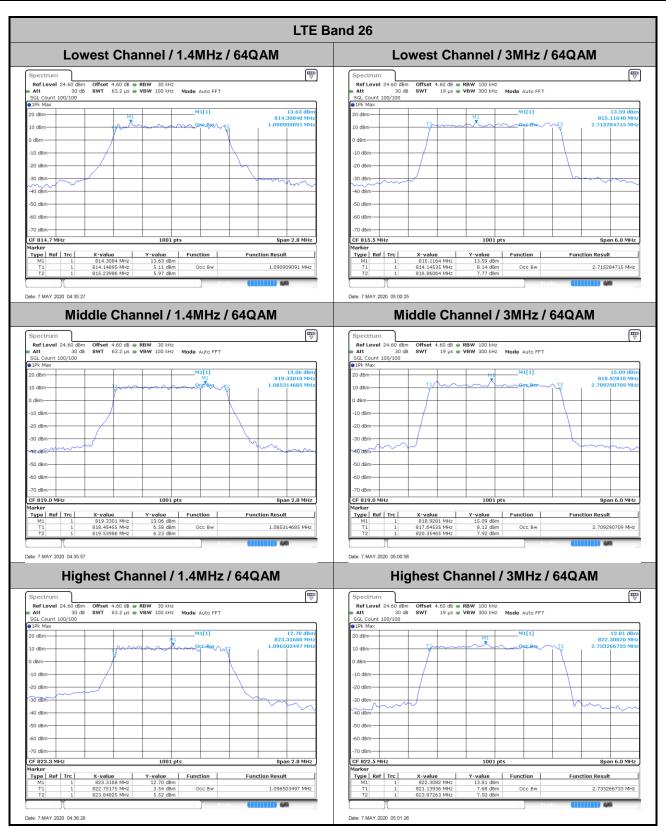
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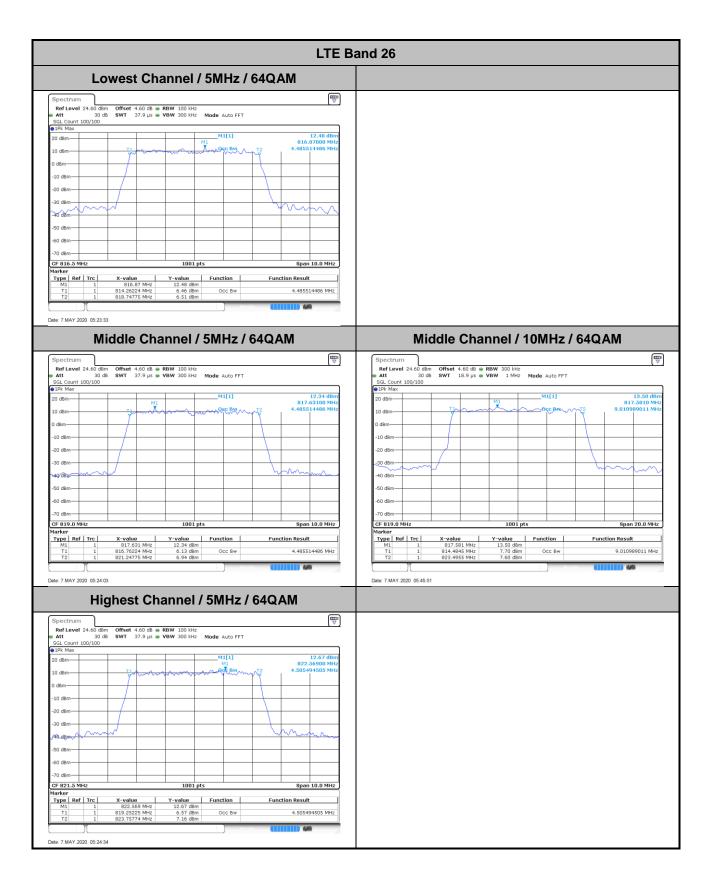
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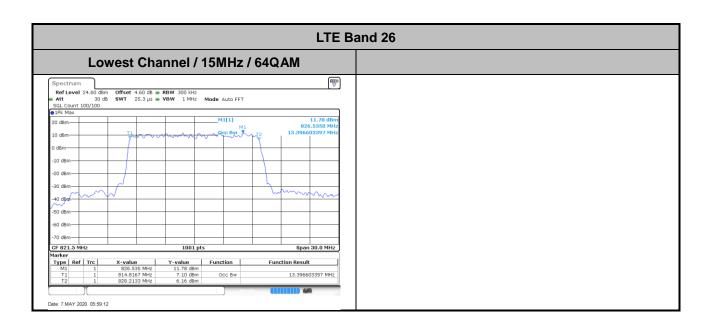
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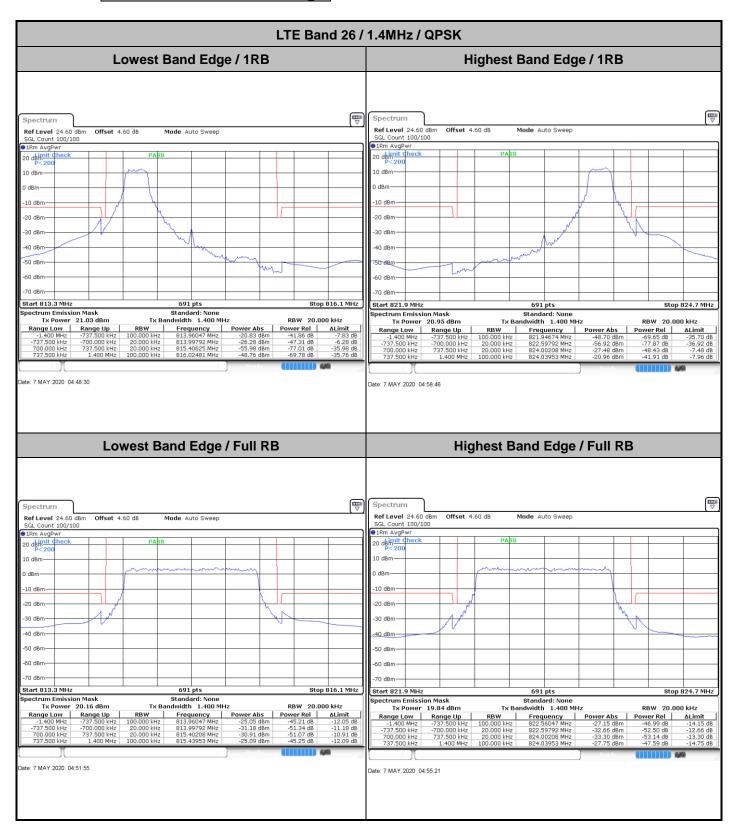


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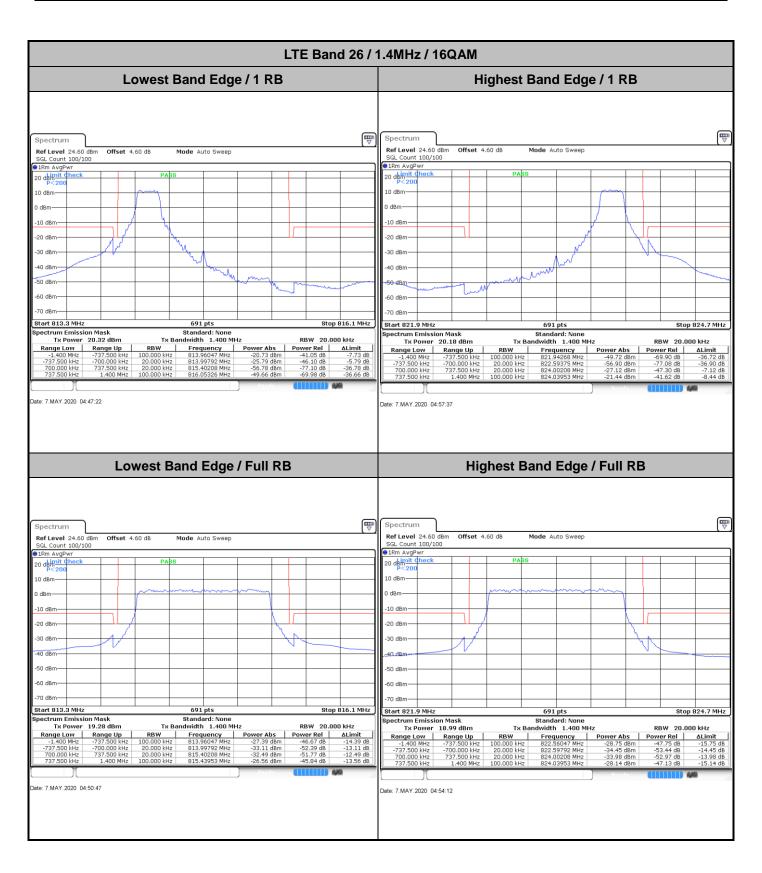
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Conducted Band Edge

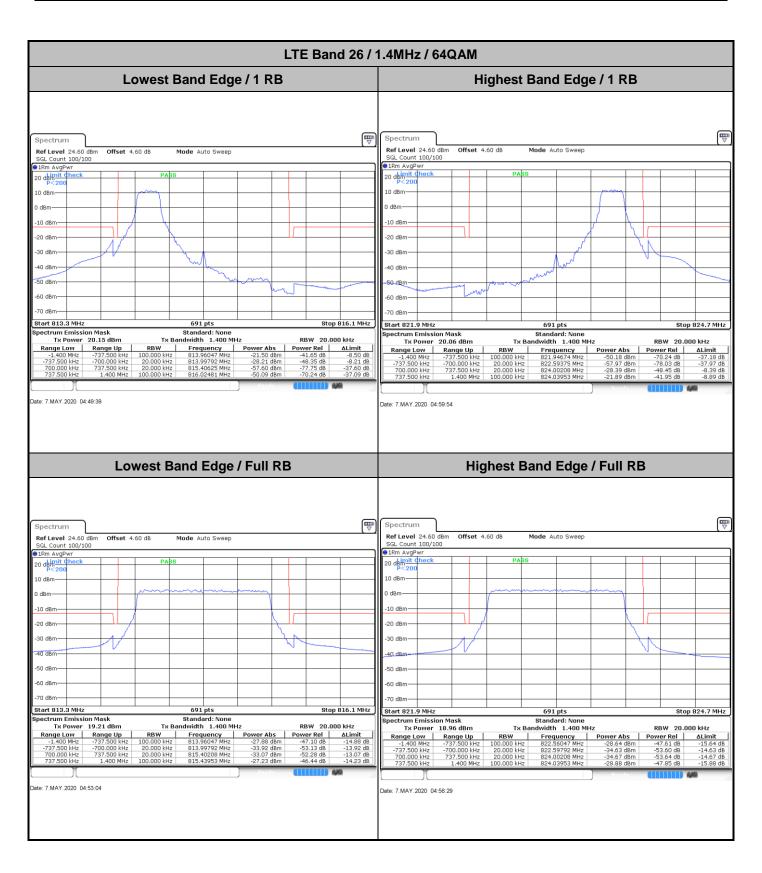


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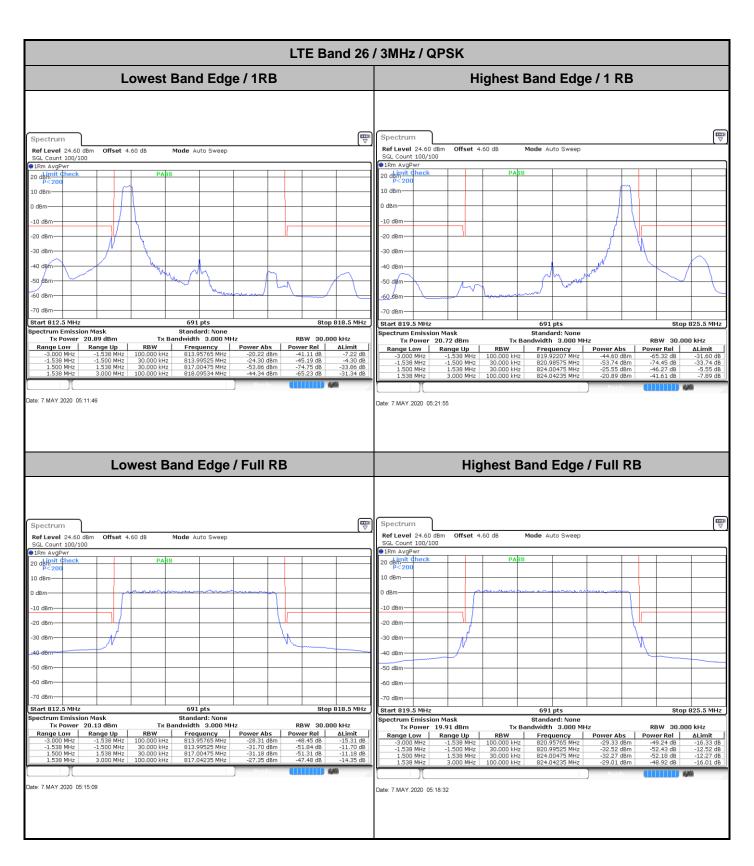
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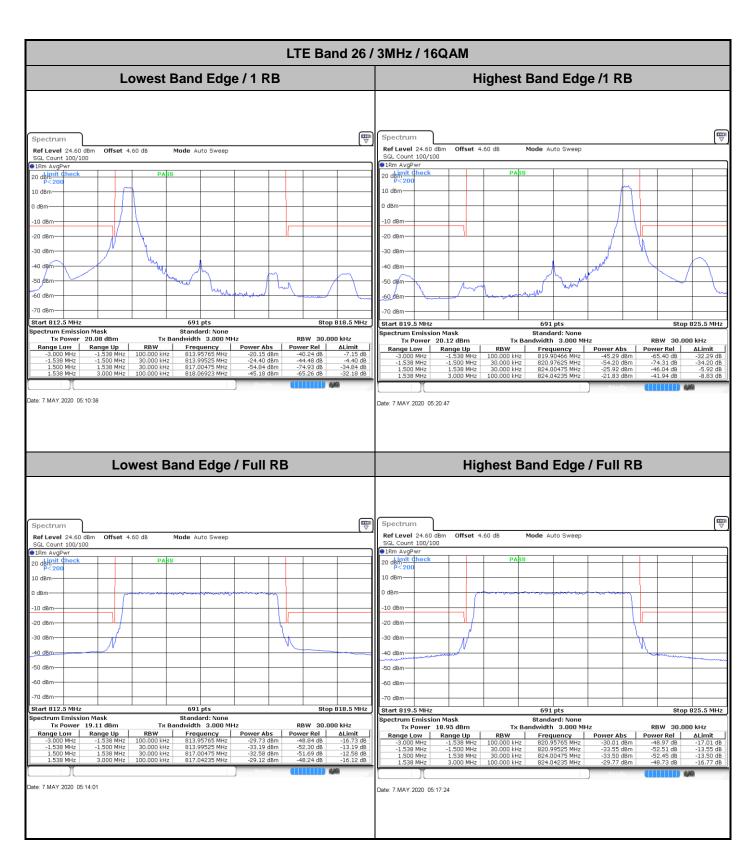
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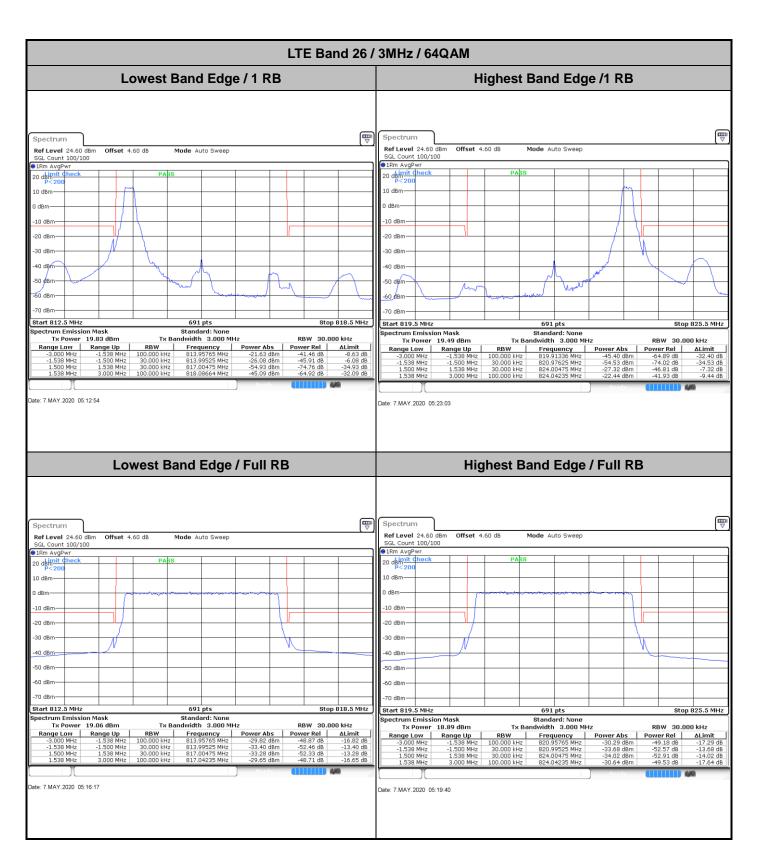
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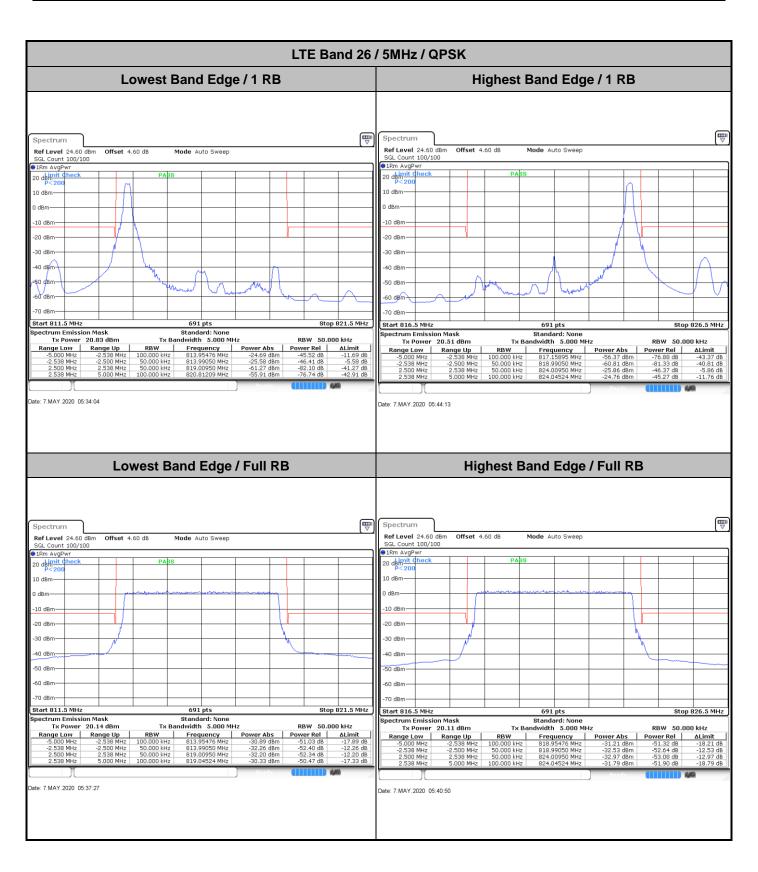
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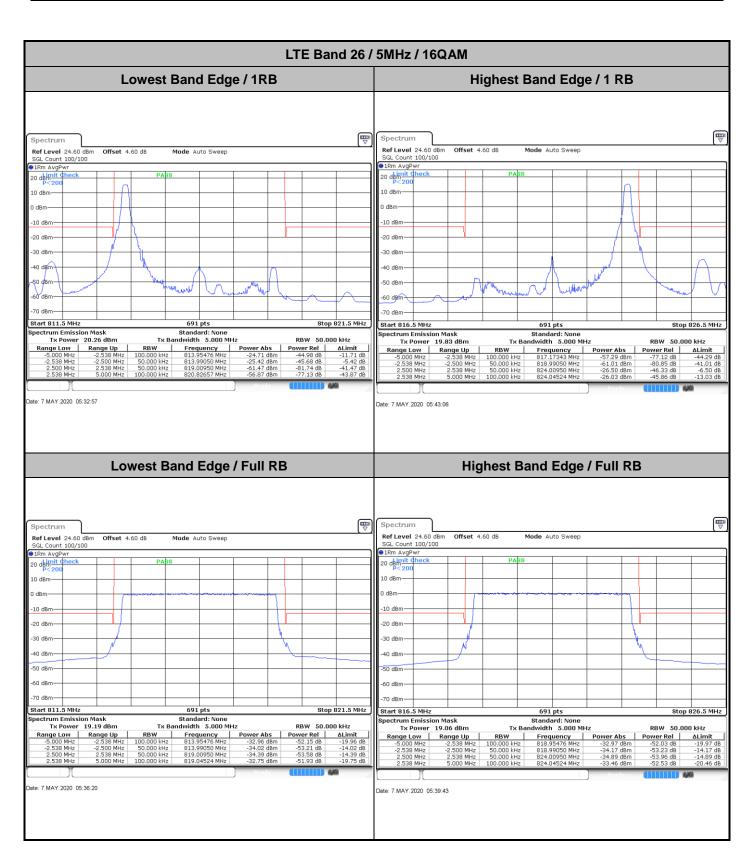
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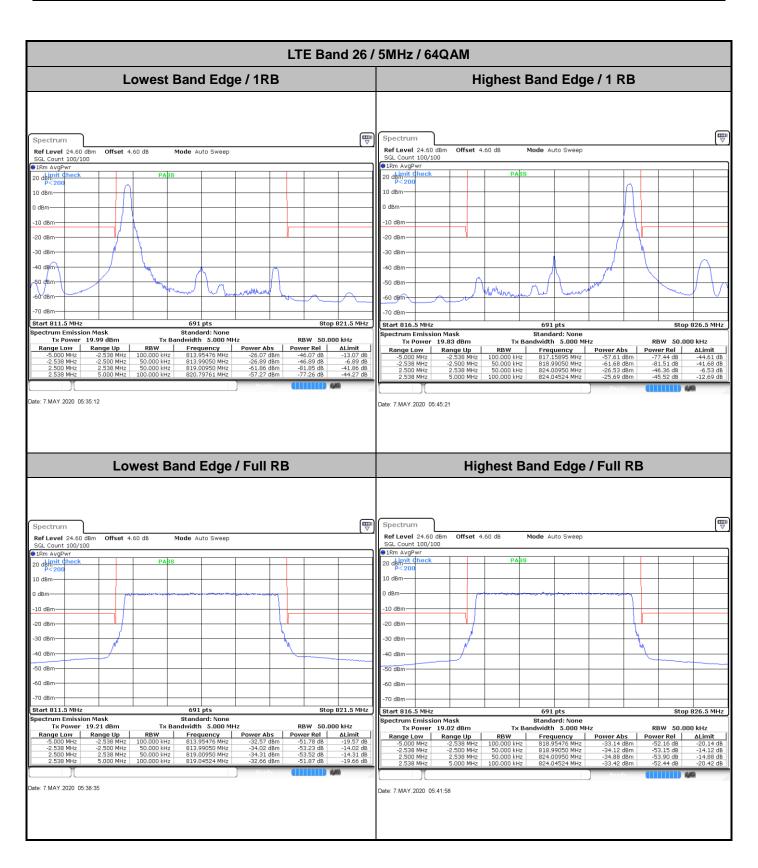
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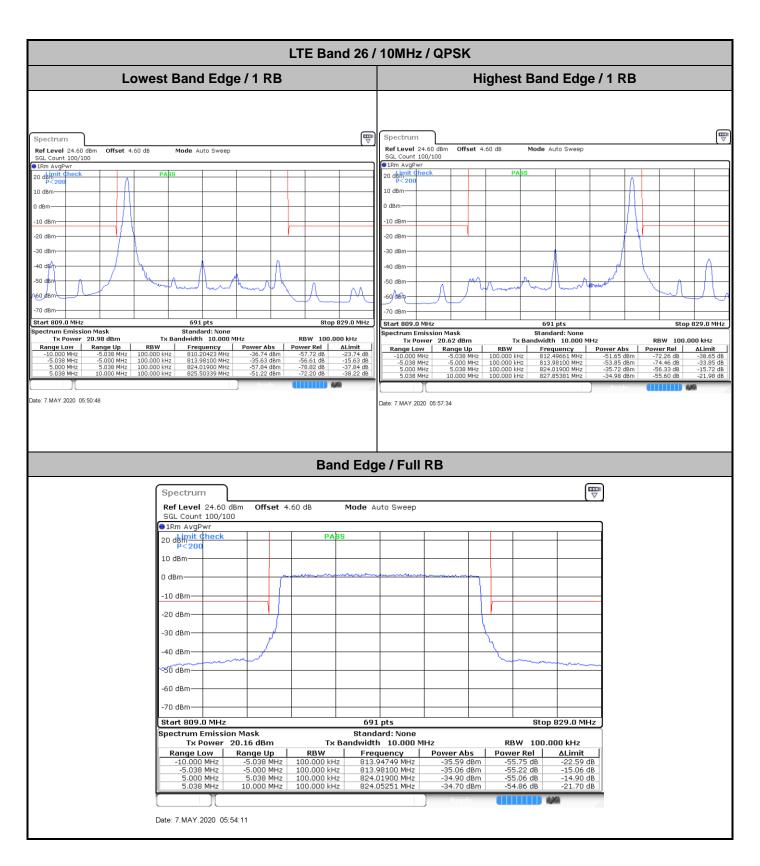
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