FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2437-3

FCC ID : IHDT56AS9

STANDARD : 47 CFR Part 27(M)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Aug. 01, 2024 ~ Aug. 09, 2024

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG471919-01A

Sporton International Inc. (Kunshan)

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

Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG471919-01A	Rev. 01	Initial issue of report	Aug. 23, 2024
FG471919-01A	Rev. 02	Address TCB comments.	Aug. 26, 2024

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	-	Report Only	-
3.4	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 41)	EIRP < 2Watt	PASS	-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	•	Report Only	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)	PASS	1
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< 55+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< 55+10log ₁₀ (P[Watts])	PASS	Under limit 8.06 dB at 7752.00 MHz

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature									
Equipment	Mobile Cellular Phone								
Brand Name	Motorola								
Model Name	XT2437-3								
FCC ID	IHDT56AS9								
IMEI Code	Conducted: 359867620006519/359867620006527 Radiation: 359867620006634								
HW Version	DVT2								
SW Version	U4UQ34.39								
EUT Stage	Identical Prototype								

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification									
Tx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz								
Rx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz								
Bandwidth	LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz								
Maximum Output Power to Antenna	Ant1: LTE Band 41 : 26.28 dBm LTE CA_41C: 22.89 dBm Ant4: LTE Band 41 : 25.46 dBm								
Antenna Gain	Ant1 : -2.17 dBi Ant4 : -1.6 dBi								
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM								

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Antenna 1 for LTE Band 41/41C is shown in the report.

2. LTE Band 41 support HPUE.

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1.5 Modification of EUT

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

1.6 Specification of Accessory

	Ac	ccessories Information		
AC Adapter 1(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331L
AC Adapter 1(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332L
AC Adapter 1(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333L
AC Adapter 1(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335L
AC Adapter 1(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336L
AC Adapter 1(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337L
AC Adapter 1((CHILE))	Brand Name	Motorola(Salcomp)	Model Name	MC-339L
AC Adapter 1(KR)	Brand Name	Motorola(Salcomp)	Model Name	MC-330L
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331L
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332L
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-333L
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336L
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337L
Battery 1	Brand Name	Motorola(ATL)	Model Name	RW50
Earphone 1	Brand Name	Motorola(Lyand)	Model Name	SH38D62338
Earphone 2	Brand Name	Motorola(Juwei)	Model Name	S928E43096
USB Cable 1	Brand Name	Motorola(Washin)	Model Name	S928D92375
USB Cable 2	Brand Name	Motorola(Saibao)	Model Name	S928D95755
Wireless Earphones	Brand Name	Motorola	Model Name	XT2443-1

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1.7 Maximum EIRP Power and Emission Designator

Lī	ΓE Band 41	QP	PSK	16QAW64Q	AM/256QAM
BW Frequency Range (MHz)		Maximum EIRP(W)	Designator		Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.2535	4M52G7D	0.2051	4M50W7D
10	2501.0 ~ 2685.0	0.2535	9M03G7D	0.2042	8M95W7D
15	2503.5 ~ 2682.5	0.2529	13M4G7D	0.2051	13M6W7D
20	2506.0 ~ 2680.0	0.2576	17M9G7D	0.2065	18M0W7D
LTE	Band 41 CA	QP	SK	16QAM/64Q	AM/256QAM
E	BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5N	/Hz+20MHz	0.1127	23M2G7D	0.0869	23M1W7D
101	MHz+20MHz	0.1086	28M2G7D	0.0877	27M9W7D
101	MHz+15MHz	0.1132	23M5G7D	0.0863	23M5W7D
151	MHz+15MHz	0.1125	28M6G7D	0.0877	28M8W7D
151	MHz+20MHz	0.1114	32M8G7D	0.0871	33M0W7D
151	MHz+10MHz	0.1119	23M6G7D	0.0871	23M3W7D
20	MHz+5MHz	0.1091	23M5G7D	0.0845	23M4W7D
201	MHz+10MHz	0.1089	28M2G7D	0.0839	27M8W7D
201	MHz+15MHz	0.1119	32M9G7D	0.0865	32M9W7D
201	VHz+20MHz	0.1180	37M6G7D	0.0942	37M8W7D

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Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.8 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)									
	No. 1098, Pengxi North	Road, Kunshan Economi	ic Development Zone							
Test Site Location	Jiangsu Province 215300 People's Republic of China									
	TEL: +86-512-57900158									
	Sporton Site No.	FCC Designation No.	FCC Test Firm							
Test Site No.	Sporton Site No.	i cc Designation No.	Registration No.							
	03CH03-KS TH01-KS	CN1257	314309							

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1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH03-KS	AUDIX	E3	210616

1.10 Applicable Standards

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

- 47 CFR Part 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- 1. 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

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X Plane).

Test Items	Band	Bandwidth (MHz)						Modulation					Test Channel				
		-	-	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	н
Max. Output Power	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to- Average Ratio	41	-	-	-	-	-	v	v	v	v	v	-	-	v	•	٧	-
26dB and 99% Bandwidth	41	-	•	٧	٧	٧	v	v	٧	-	-		-	v	•	v	-
Conducted Band Edge	41	-	-	v	v	v	v	v	v	v	v	v	-	v	٧	-	v
Conducted Spurious Emission	41	-		v	v	v	v	v	-	-	-	v	1		v	v	v
Frequency Stability	41	-	-	•	v	•	-	v	-	-	-	•	-	٧	•	v	-
E.I.R.P	41	-	-	v	V	V	v	v	v	v	v	٧	-	•	٧	٧	v
Radiated Spurious Emission	Spurious 41 Worst Case									•	v	-					
 The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spuriounder different RB size/offset and modulations in exploratory test. Subsequently, only the ware reported. 								•				าร					

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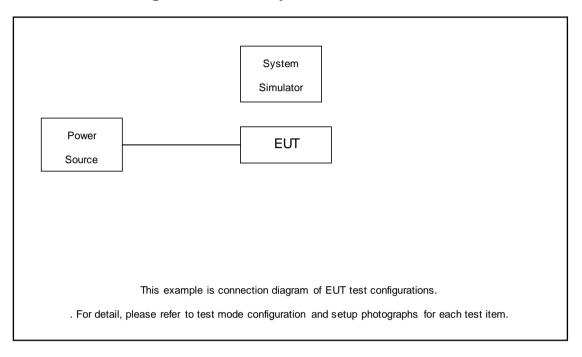
To at Manage	Daniel	Bandwidth (MHz)									Modulation				RB#			Test Channel			
Test Items	Band	20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16Q AM	64 QAM	256 QAM	1	Half	Full	L	М	Н
Max. Output Power	41C_CA	٧	v	٧	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	41C_CA	v	v	٧	v	v	v	v	٧	v	٧	v	v	-	-	•	-	v	-	٧	-
Conducted Band Edge	41C_CA	V	v	٧	٧	v	v	v	٧	v	v	v	v	٧	v	٧	-	v	v	-	٧
Conducted Spurious Emission	41C_CA	v	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-	v	v	v
E.I.R.P.	41C_CA	v	v	٧	v	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	٧
Radiated Spurious Emission	41C_CA	IC_CA Worst Case - v -										-									
Note	The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported.										er										

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

ltem	Equipment Trade Name		Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example:

 $Offset(dB) = RF \ cable \ loss(dB).$ = 6.0 (dB)

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2.5 Frequency List of Low/Middle/High Channels

LTE Band 41 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest				
20	Channel	39750	40620	41490				
20	Frequency	2506	2593	2680				
15	Channel	39725	40620	41515				
15	Frequency	2503.5	2593	2682.5				
10	Channel	39700	40620	41540				
10	Frequency	2501	2593	2685				
5	Channel	39675	40620	41565				
	Frequency	2498.5	2593	2687.5				

LTE Band 41C_CA Channel and Frequency List								
BW [MHz]	Channe	/Frequency(MHz)	Lowest	Middle	Highest			
	20 + 20 PCC SCC	Channel	39750	40521	41292			
20 . 20		Frequency	2506.0	2583.1	2660.2			
20 + 20		Channel	39948	40719	41490			
	300	Frequency	2525.8	2602.9	2680.0			
	PCC	Channel	39750	40546	41341			
20 + 15	PCC	Frequency	2506.0	2585.6	2665.1			
20 + 15	SCC	Channel	39921	40717	41512			
	SCC	Frequency	2523.1	2602.7	2682.2			
	PCC	Channel	39728	40523	41319			
15 + 20	PCC	Frequency	2503.8	2593.3	2662.9			
15 + 20	SCC	Channel	39899	40694	41490			
	300	Frequency	2520.9	2600.4	2680.0			
	PCC	Channel	39750	40571	41391			
20 + 10	PCC	Frequency	2506.0	2588.1	2670.1			
20 + 10	SCC	Channel	39894	40715	41535			
	300	Frequency	2520.4	2602.5	2684.5			
	DCC	Channel	39705	40526	41346			
10 + 20	PCC	Frequency	2501.5	2583.6	2665.6			
10 + 20	SCC	Channel	39849	40670	41490			
	300	Frequency	2515.9	2598.0	2680.0			
20 + 5	DCC	Channel	39750	40595	41440			
20 + 5	PCC	Frequency	2506.0	2590.5	2675.0			

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					ı
	SCC	Channel	39867	40712	41557
	300	Frequency	2517.7	2602.2	2686.7
	PCC	Channel	39683	40528	41373
5 + 20	PCC	Frequency	2499.3	2583.8	2668.3
5 + 20	SCC	Channel	39800	40645	41490
	300	Frequency	2511.0	2595.5	2680.0
	PCC	Channel	39725	40545	41365
15 + 15	PCC	Frequency	2503.5	2585.5	2667.5
15 + 15	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
	PCC	Channel	39703	40549	41395
10 + 15	PCC	Frequency	2501.3	2585.9	2670.5
10 + 15	SCC	Channel	39823	40669	41515
	300	Frequency	2513.3	2597.9	2682.5
	PCC	Channel	39725	40571	41417
15 + 10		Frequency	2503.5	2588.1	2672.7
13 + 10	SCC	Channel	39845	40691	41537
	300	Frequency	2515.5	2600.1	2684.7

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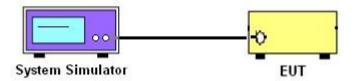
3 Conducted Test Items

3.1 Measuring Instruments

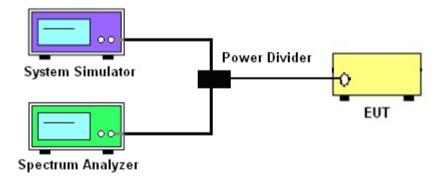
See list of measuring instruments of this test report.

3.2 Test Setup

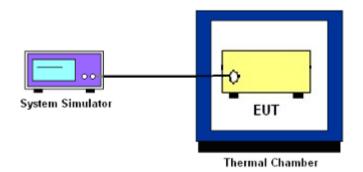
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 41.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, 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

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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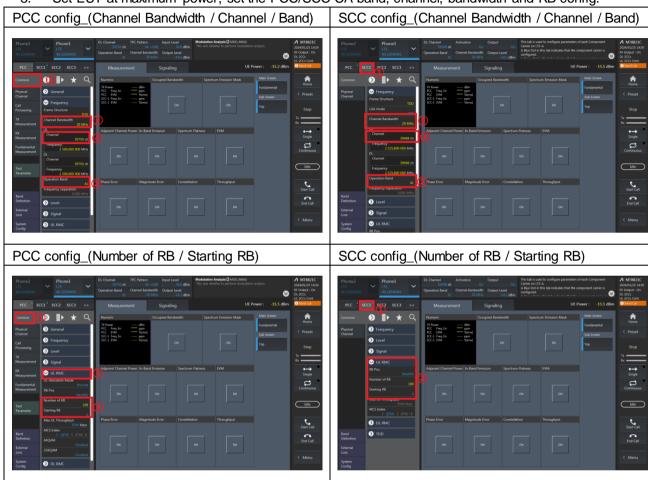
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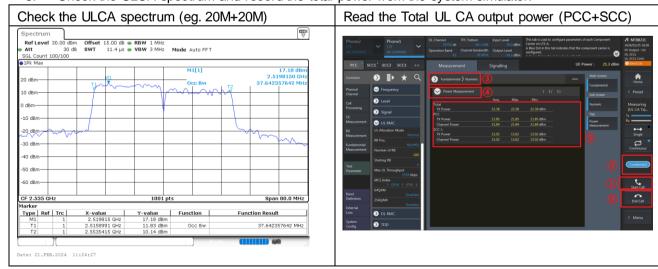
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3.4.3 **Test Procedures for LTE ULCA**

- The testing follows ANSI C63.26 Section 5.2 1.
- 2. The transmitter PCC & SCC output ports were connected to the system simulator.
- Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.



- 4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
- 5. Check the ULCA spectrum and record the total power from the system simulator.



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3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

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3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "-X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was
 used and the measured power was integrated over the full required measurement bandwidth of
 1 MHz.
- 6. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. Checked that all the results comply with the emission limit line.
- 9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

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3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

For Band 38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 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.

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 7. Set spectrum analyzer with RMS detector.
- 8. Taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
 - = P(W) [55 + 10log(P)] (dB)
 - = [30+10log(P)] (dBm) [55+10log(P)] (dB)
 - = -25dBm.

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3.9 Frequency Stability

3.9.1 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.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. 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.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. 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.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the 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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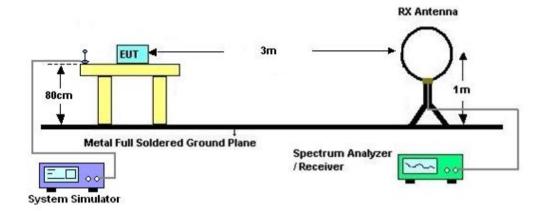
4 Radiated Test Items

4.1 Measuring Instruments

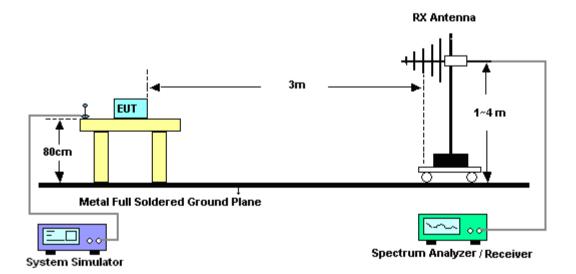
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz

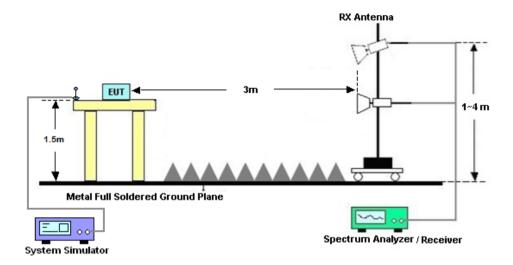


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4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

For Band 41

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 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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5 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	Oct. 11, 2023	Aug. 01, 2024 Aug. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	•	0.5~40GHz	NCR	Aug. 01, 2024 Aug. 09, 2024	NCR	Conducted (TH01-KS)
Temperature &h umidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Aug. 01, 2024 [~] Aug. 09, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 08, 2024	Sep. 10, 2024	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 06, 2023	Aug. 08, 2024	Dec. 05, 2024	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Aug. 08, 2024	Oct. 22, 2024	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101115	18GHz~40GHz	Oct. 15, 2023	Aug. 08, 2024	Oct. 14, 2024	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2082394	1Ghz-18Ghz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
Amplifier	EM	EM18G40G A	060851	18~40GHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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6 Measurement Uncertainty

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.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
Confidence of 95% ($U = 2UC(y)$)	

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

Measuring Uncertainty for a Level of	2.84dB
Confidence of 95% (U = 2Uc(y))	2.0406

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

Measuring Uncertainty for a Level of	0.004D
Confidence of 95% (U = 2Uc(y))	2.83dB

----- THE END -----

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Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity:	40~42%

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Conducted Output Power(Average power) and EIRP

LTE Band 41_ANT 1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freg.	Power Middle Ch. / Freg.	Power High Ch. / Freq.	EIRP(W)		
	Channel			39750 40620 41490					
	Frequenc	cy (MHz)		2506	2593	2680	L	M	Н
20	QPSK	1	0	25.90	26.28	26.11	0.2360	0.2576	0.2477
20	QPSK	1	99	25.83	26.22	26.01	0.2323	0.2541	0.2421
20	QPSK	100	0	24.97	25.03	24.99	0.1905	0.1932	0.1914
20	16QAM	1	0	25.24	25.32	25.22	0.2028	0.2065	0.2018
20	64QAM	1	0	24.32	24.38	24.28	0.1641	0.1663	0.1626
20	256QAM	1	0	21.19	21.24	21.21	0.0798	0.0807	0.0802
	Channel			39725	40620	41515	EIRP(W)		
	Frequenc	cy (MHz)		2503.5	2593	2682.5	L	M	Н
15	QPSK	1	0	25.87	26.20	26.05	0.2344	0.2529	0.2443
15	16QAM	1	0	25.16	25.29	25.19	0.1991	0.2051	0.2004
	Channel			39700	40620	41540		EIRP(W)	
	Frequenc	cy (MHz)		2501	2593	2685	L	M	Н
10	QPSK	1	0	25.81	26.21	26.08	0.2312	0.2535	0.2460
10	16QAM	1	0	25.21	25.27	25.13	0.2014	0.2042	0.1977
Channel			39675	40620	41565		EIRP(W)		
	Frequenc	cy (MHz)		2498.5	2593	2687.5	L	M	Н
5	QPSK	1	0	25.81	26.21	26.09	0.2312	0.2535	0.2466
5	16QAM	1	0	25.14	25.29	25.12	0.1982	0.2051	0.1972

LTE CA_41C_ANT 1:

	Combination 20MHz+20MHz (100RB+100RB)								
Ob annual	Manhalatian	P	CC	S	CC	Measured			
Channel	Modulation	RB Size	RB offset	RB Size	RB offset	Power	EIRP(W)		
L	QPSK	1	Max	1	0	22.78	0.1151		
М	QPSK	1	Max	1	0	22.89	0.1180		
Н	QPSK	1	Max	1	0	22.70	0.1130		
L	16QAM	1	Max	1	0	21.60	0.0877		
М	16QAM	1	Max	1	0	21.91	0.0942		
Н	16QAM	1	Max	1	0	21.58	0.0873		
L	64QAM	1	Max	1	0	20.86	0.0740		
М	64QAM	1	Max	1	0	20.87	0.0741		
Н	64QAM	1	Max	1	0	20.73	0.0718		
L	256QAM	1	Max	1	0	17.76	0.0362		
М	256QAM	1	Max	1	0	17.88	0.0372		
Н	256QAM	1	Max	1	0	17.58	0.0348		

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Combination 20MHz+15MHz (100RB+75RB) Measured Channel Modulation EIRP(W) RB Size RB offset RB Size RB offset Power QPSK Max 22.66 0.1119 16QAM Max 21.54 0.0865 Combination 15MHz+20MHz (75RB+100RB) Measured Channel EIRP(W) Modulation RB Size RB offset RB Size RB offset Power QPSK Max 22.64 0.1114 16QAM Max 21.57 0.0871 Combination 15MHz+15MHz (75RB+75RB) Measured Channel Modulation EIRP(W) RB Size RB offset RB Size RB offset Power QPSK Max 22.68 0.1125 21.60 16QAM Max 0.0877 Combination 20MHz+10MHz (100RB+50RB) PCC Measured Channel Modulation EIRP(W) RB Size RB offset **RB** Size RB offset Power QPSK М Max 22.54 0.1089 16QAM Max 21.41 0.0839 Combination 10MHz+20MHz (50RB+100RB) PCC Measured Channel Modulation EIRP(W) RB Size RB offset RB Size RB offset Power М QPSK Max 22.53 0.1086 16QAM Max 21.60 0.0877 Combination 15MHz+10MHz (75RB+50RB) Measured Channel Modulation EIRP(W) Power RB offset RB Size RB Size RB offset **QPSK** 22.66 0.1119 М 16QAM Max 21.57 0.0871 Combination 10MHz+15MHz (50RB+75RB) Measured Channel Modulation EIRP(W) RB Size RB offset RB Size RB offset Power QPSK Max 22.71 0.1132 16QAM Max 21.53 0.0863 Combination 20MHz+5MHz (100RB+25RB) Measured Channel Modulation EIRP(W) RB Size RB offset RB Size RB offset Power QPSK Max 22.55 0.1091 16QAM 21.44 0.0845 Combination 5MHz+20MHz (25RB+100RB) Measured Channel Modulation EIRP(W) RB Size RB offset **RB** Size RB offset Power QPSK Max 22.69 0.1127

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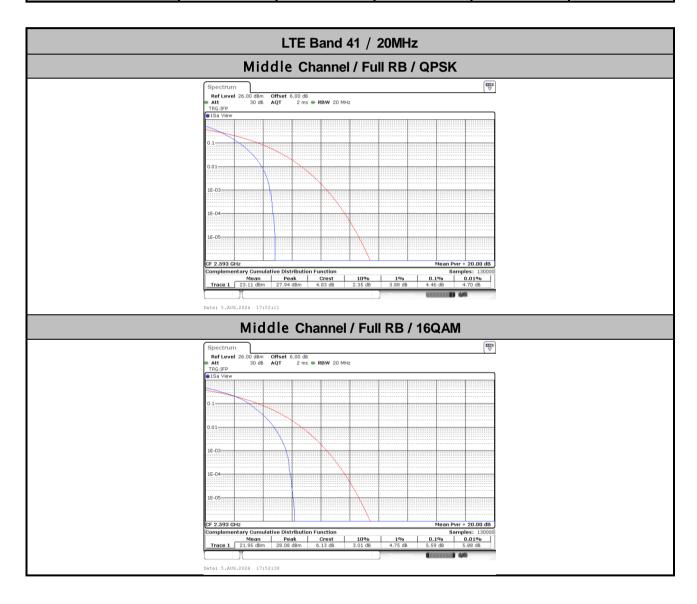
16QAM

LTE Band 41

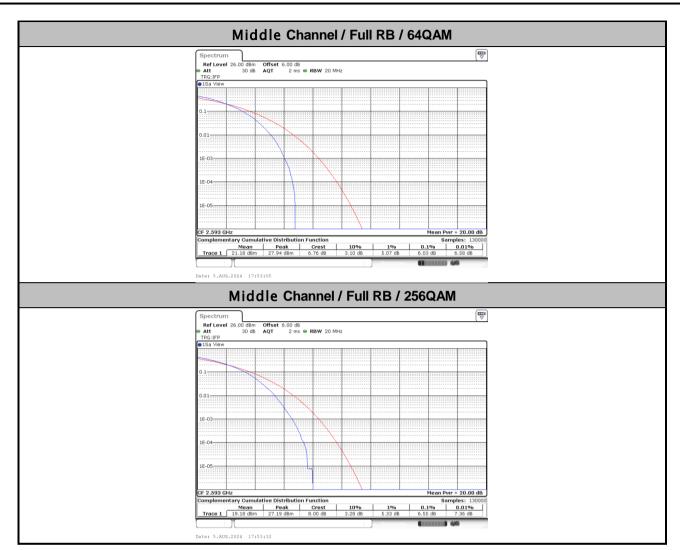
Peak-to-Average Ratio

Mode					
Mod.	QPSK	QPSK 16QAM 64QAM 256QAM			
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.59	6.03	6.55	PASS

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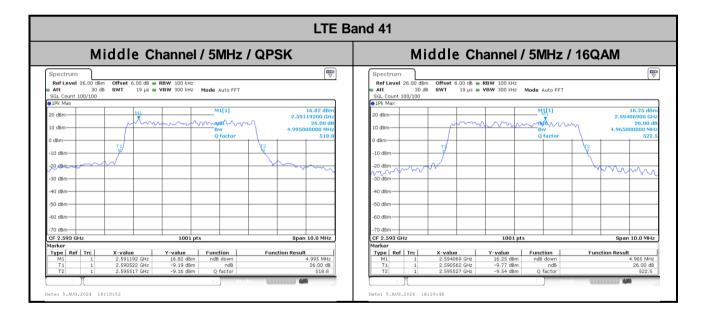
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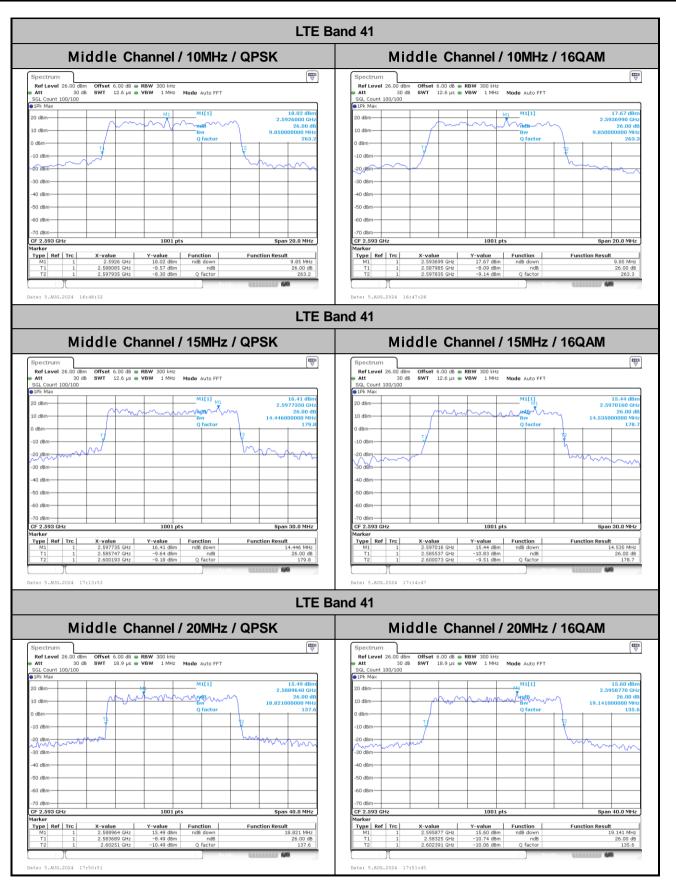
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.00	4.97
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.85
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.45	14.54
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.82	19.14

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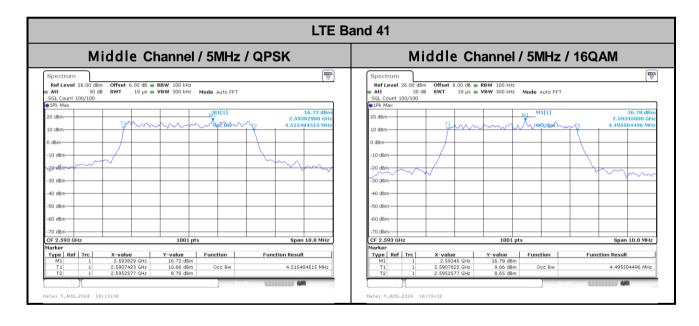
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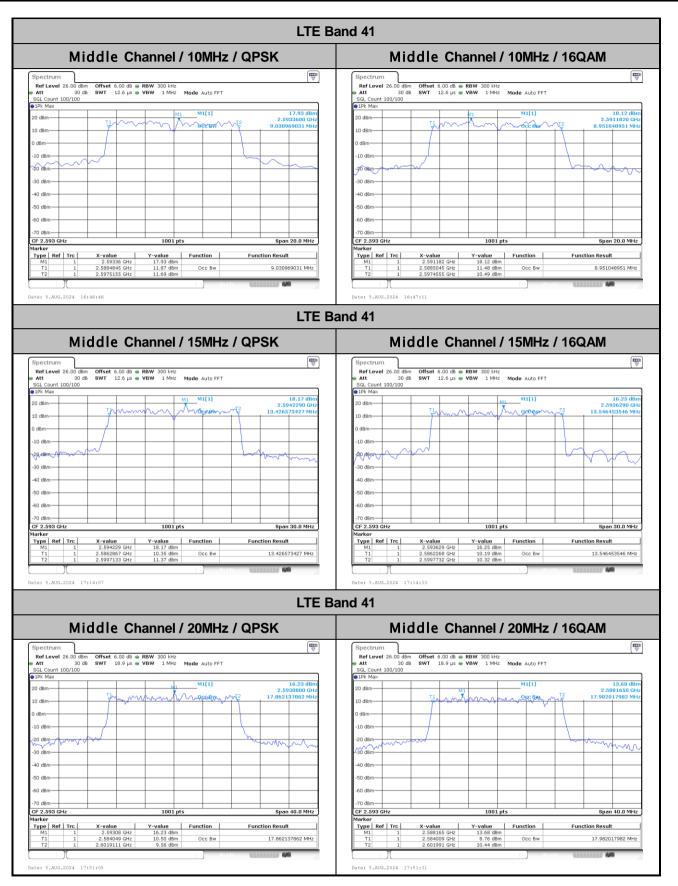
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.52	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.95
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.55
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.98

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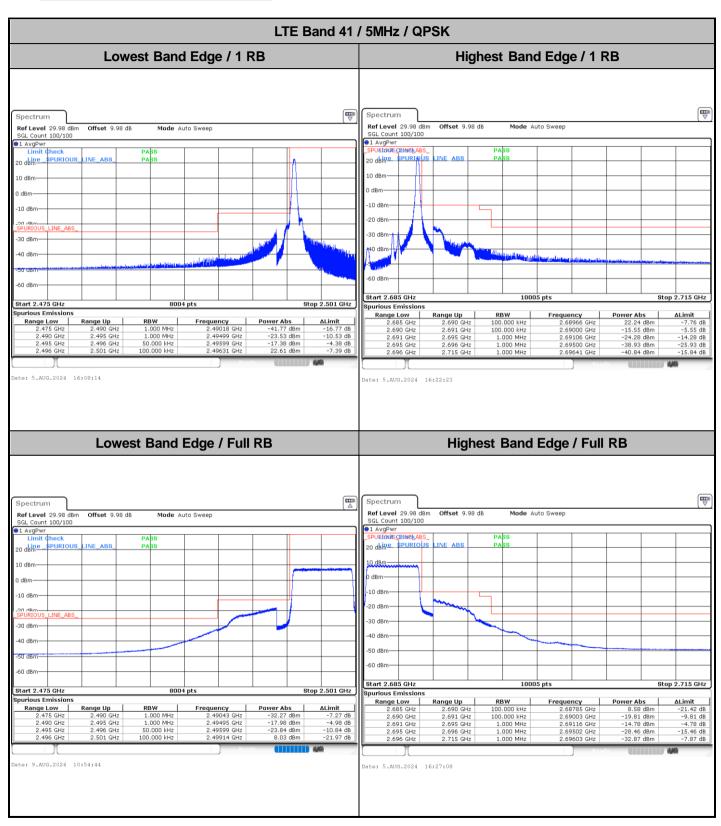
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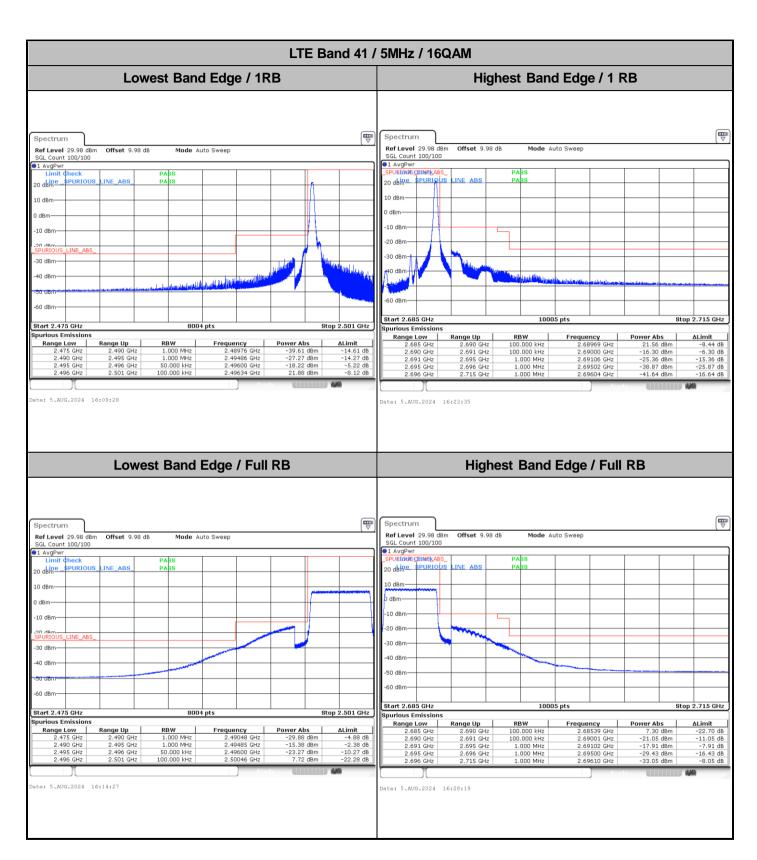
Conducted Band Edge



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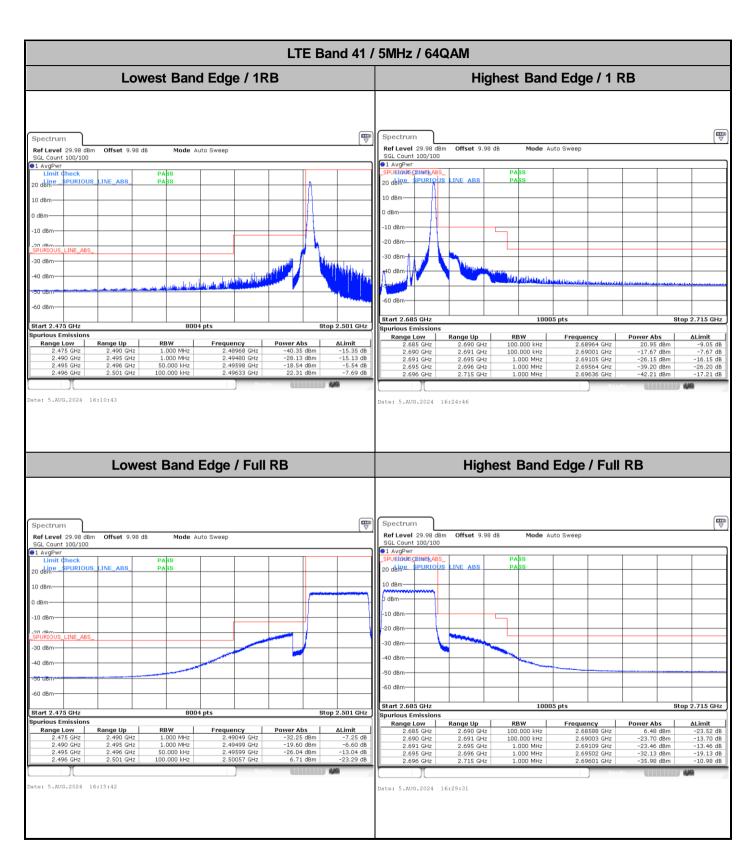
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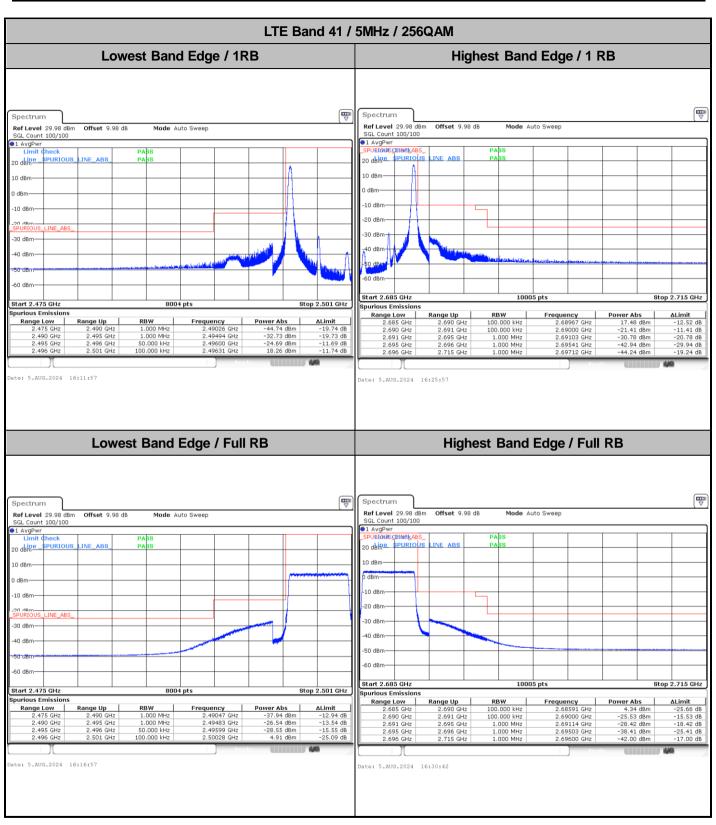
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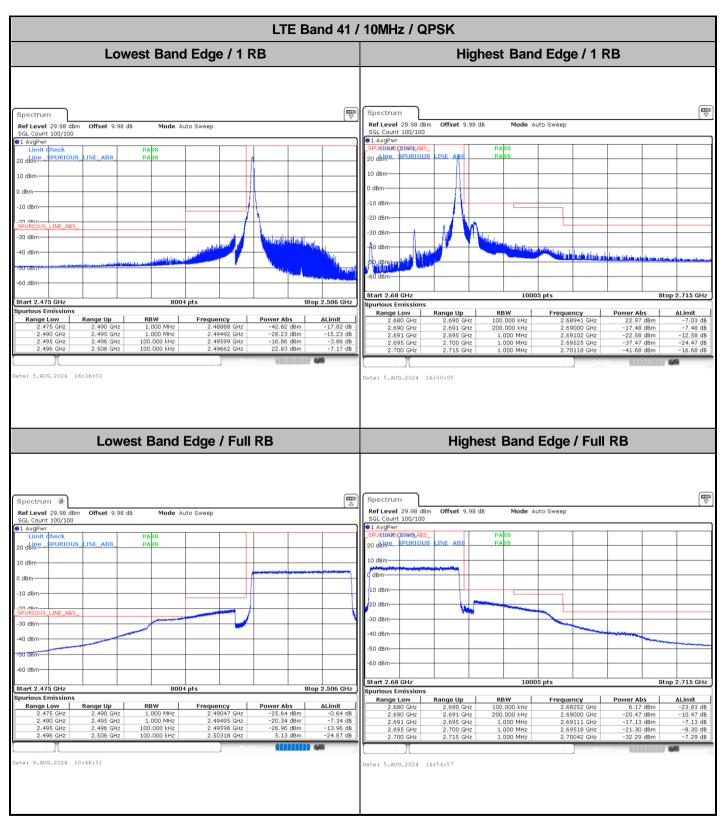
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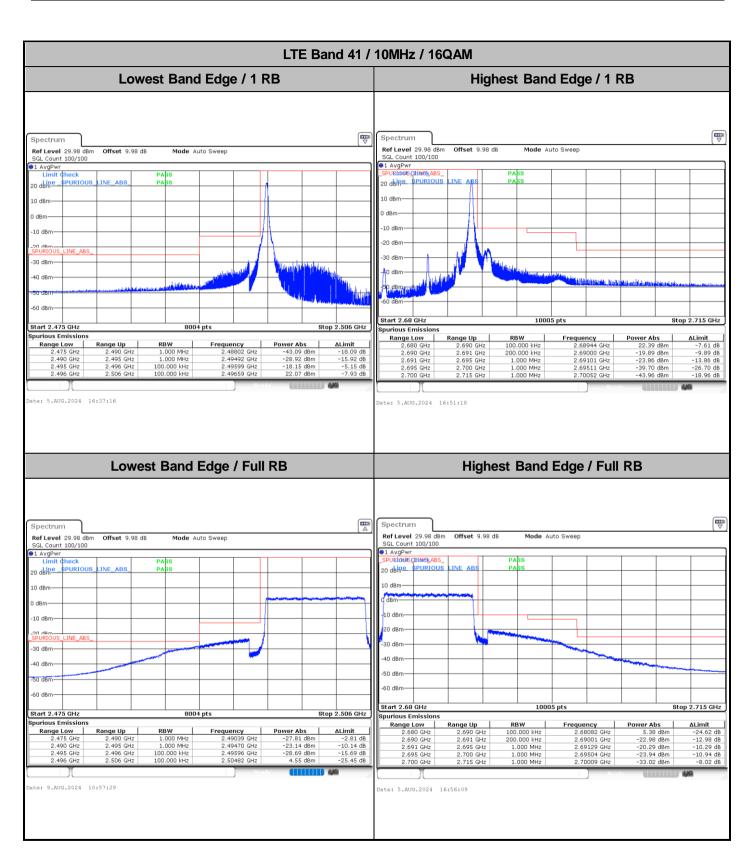
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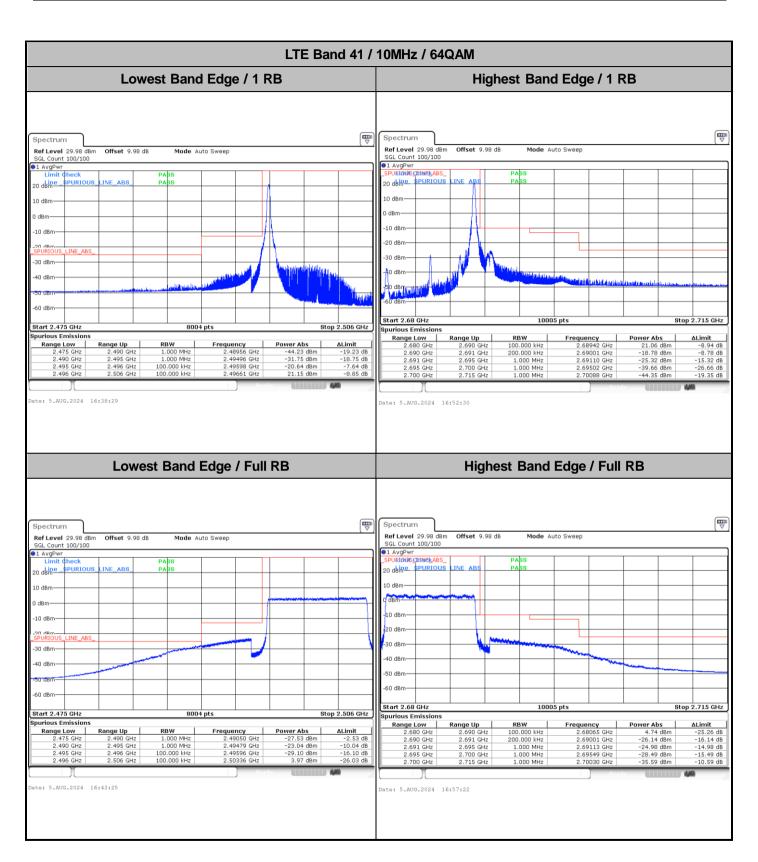
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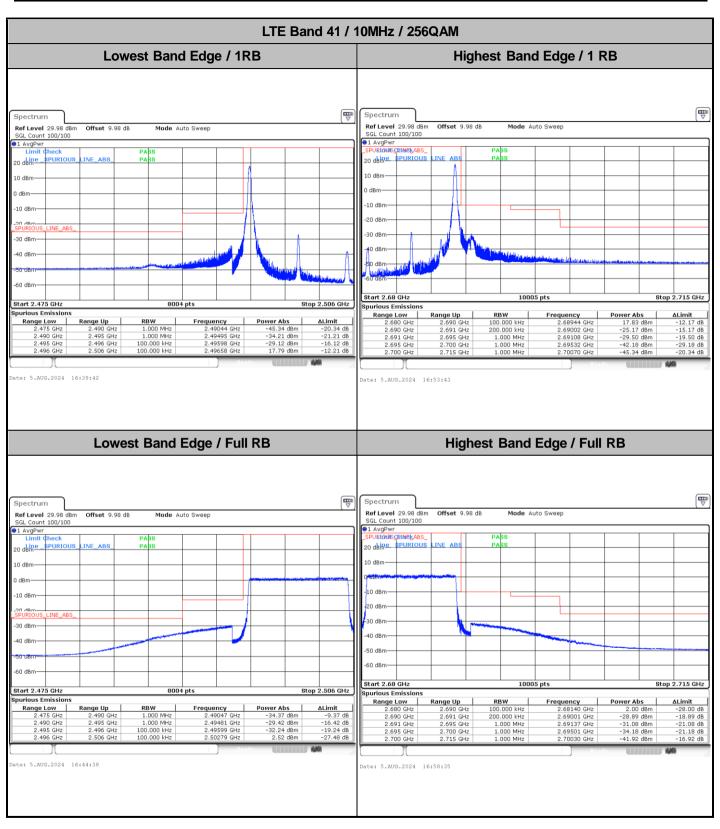
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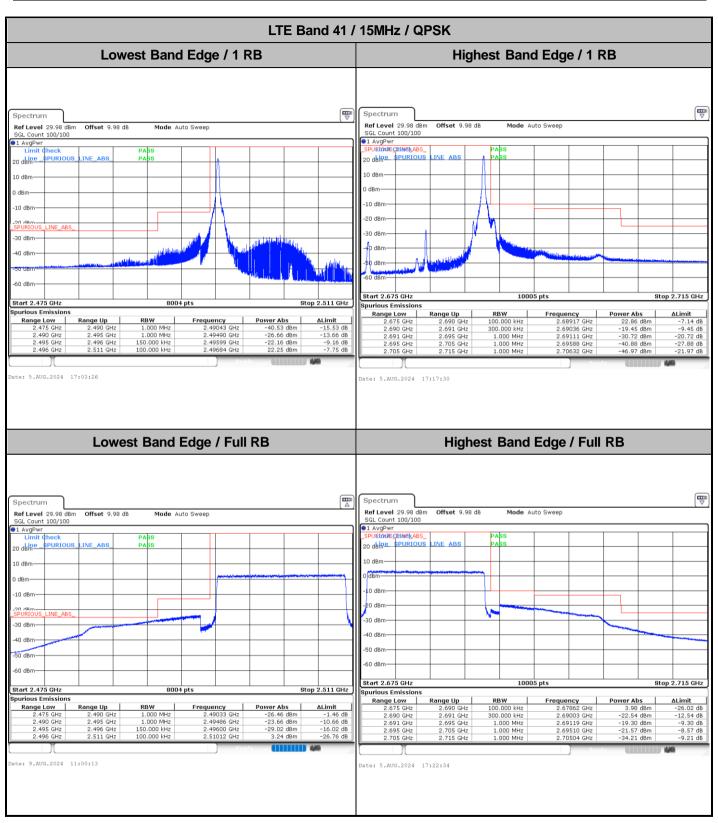
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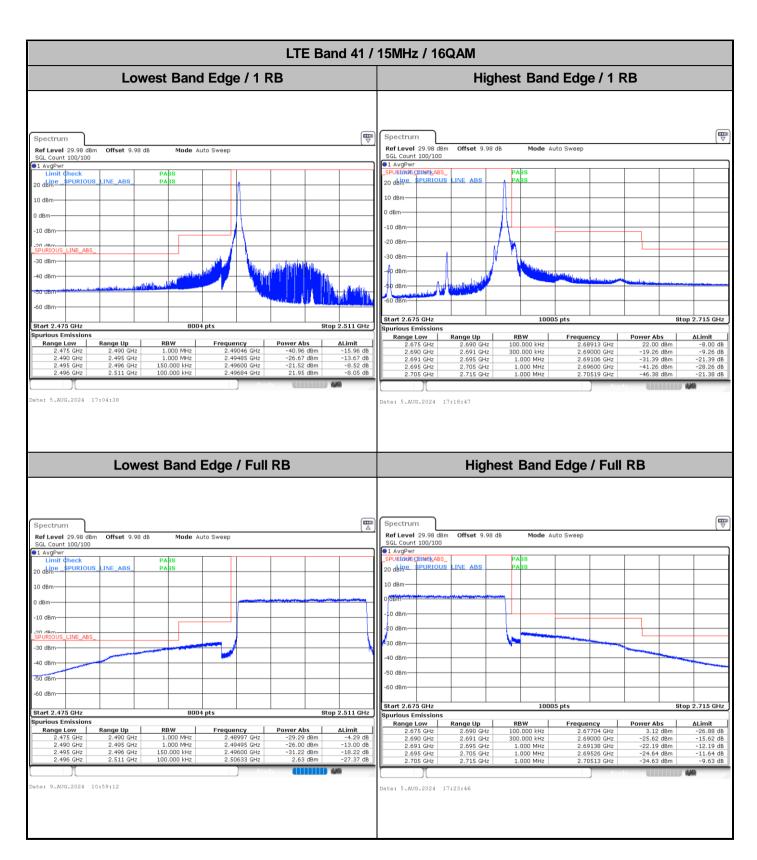
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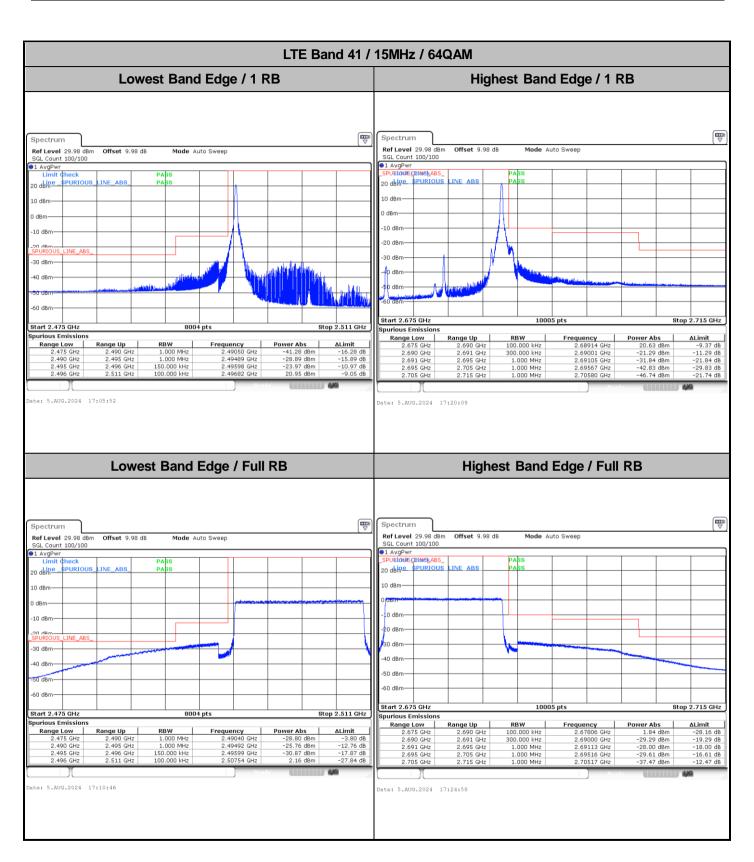
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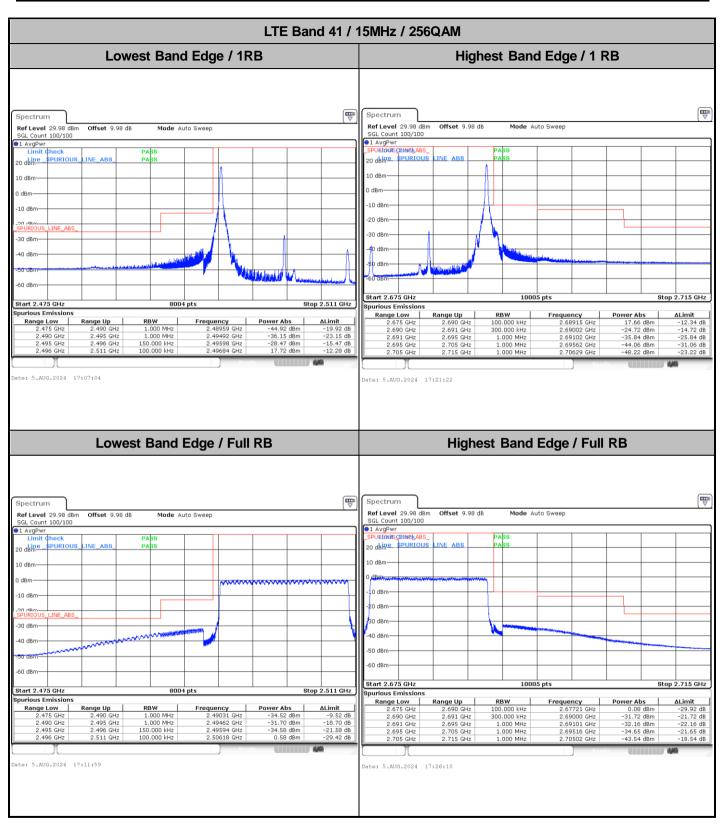
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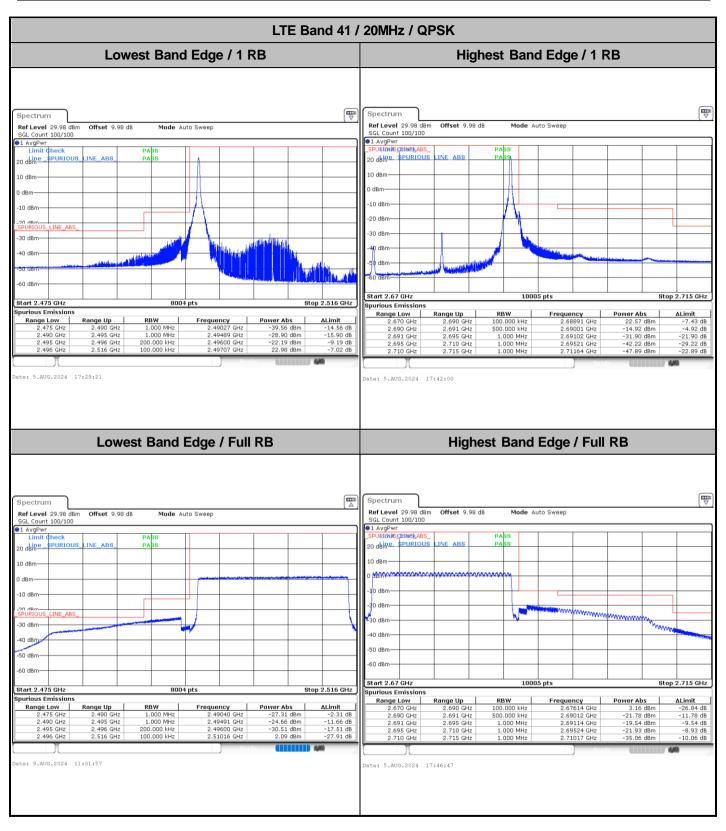
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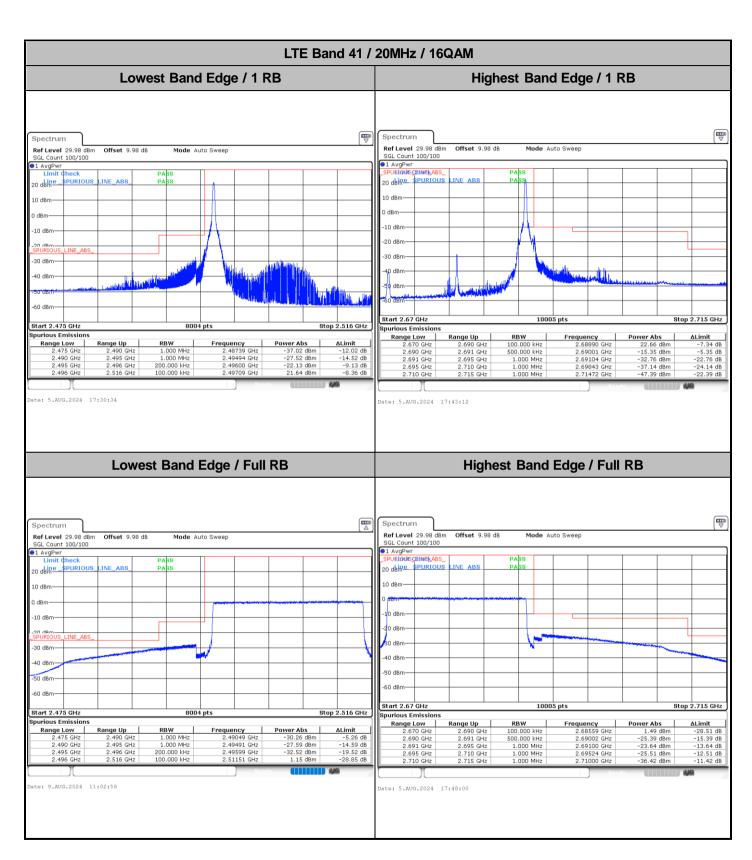
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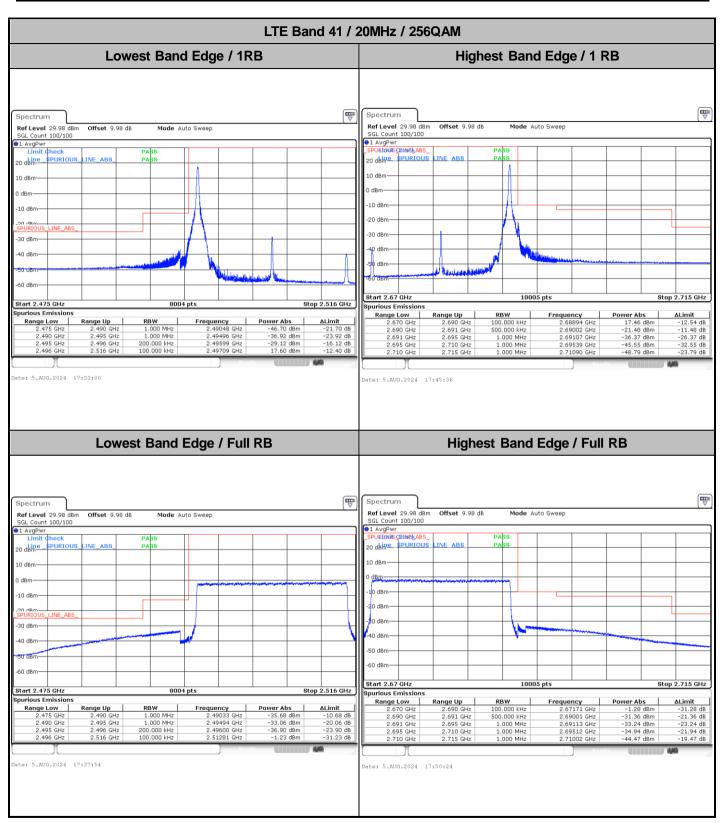
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LTE Band 41 / 20MHz / 64QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Ref Level 29 Offset 9.98 dB Mode Auto Sweep Ref Level 29.98 Offset 9.98 dB Mode Auto Sweep SGL Count 100/100 ●1 AvgPw 20 deine SPURIOUS 20 dkine 10 dBm -30 dBm-40 dBm -60 dBm op 2.715 GHz Start 2.475 GHz 8004 pts Stop 2.516 GHz Spurious Emission Range Up RBW 100.000 kHz 500.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Power Abs 20.71 dBm 2.490 GHz 2.495 GHz 2.495 GHz 2.496 GHz 2.516 GHz -9.29 dB -6.91 dB -24.58 dB -30.40 dB -23.29 dB Power Abs Range Low 2.475 GHz 2.691 GHz 2.695 GHz 2.710 GHz 2.715 GHz 2.69001 GHz 2.69102 GHz 2.69578 GHz 2.71144 GHz Date: 5.AUG.2024 17:31:47 Date: 5.AUG.2024 17:44:23 Lowest Band Edge / Full RB Highest Band Edge / Full RB Spectrum Offset 9.98 dB Mode Auto Sweep Ref Level 29.98 dBm Offset 9.98 dB Mode Auto Sweep SGL Count 100/100

1 AvgPwr
SPURIOUSCHWEKABS ●1 AvgPw PASS an d**aine** 10 dBm dBm-10 dBm -10 dBm-0 dBm -30 dBm--40 dBm -50 dBm Start 2.67 GHz Spurious Emissions urious Emissions 2.490 GHz 2.495 GHz 2.495 GHz 2.496 GHz 2.516 GHz RBW 1.000 MHz 1.000 MHz 200.000 kHz 2.49044 GHz 2.49494 GHz 2.49600 GHz 2.490 GHz 2.495 GHz .51010 GHz ate: 5.AUG.2024 17:36:41 Date: 5.AUG.2024 17:49:12

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