



Report No.: FG380306F

FCC RADIO TEST REPORT

FCC ID : A4RG8HHN

Equipment : Phone **Model Name** : G8HHN

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, 96

The product was received on Jul. 14, 2023 and testing was performed from Jul. 14, 2023 to Oct. 05, 2023. 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 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: Louis Wu

Louis Win

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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Report Version : 02

History of this test report

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Report No.	Version	Description	Issue Date
FG380306F	01	Initial issue of report	Dec. 01, 2023
FG380306F	02	 Revised Test Mode. Add Antenna Information Remark 2 This report is an updated version, replacing the report issued on Dec. 01, 2023. 	Dec. 08, 2023

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	4.4 §2.1051 Radiated Spurious Emission		Pass	13.59 dB under the limit at 11043.00 MHz for Tx0 Antenna 14.82 dB under the limit at 28409.00 MHz for Tx1 Antenna

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.

Reviewed by: William Chen Report Producer: Rachel Hsieh

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature

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General Specs

GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax, NFC, WPC Rx and GNSS Rx.

Antenna Type

WWAN:

<Ant. 0>: ILA Antenna <Ant. 1>: ILA Antenna <Ant. 2>: IFA Antenna <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

	TDD band Power Class					
	PC3 PC2					
B48	V	-				

	Antenna information					
Band Ant2 Ant6 Main Ant. # Sub						
B48	-3.5	-2.5	6	2		

Remark:

- 1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
- 2. After preliminary scan, the main antenna Ant6 is selected as the worst mode to be reported for conducted test in the test report.

EUT Information List				
S/N	Performed Test Item			
38031JEKB01503	Conducted Measurement EIRP			
38031JEKB01525	Radiated Spurious Emission			

1.2 Modification of EUT

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

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1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
Test Site No.	TH03-HY
Test Engineer	HaoEn Zhang
Temperature (°C)	21.5~22.3
Relative Humidity (%)	52.3~54.8

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Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
rest site No.	03CH12-HY (TAF Code: 3786)	
Test Engineer	Wilson Wu, Jesse Fan and Tim Lee	
Temperature (°C)	20~25	
Relative Humidity (%)	50~60	
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.	

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

FCC Designation No.: TW1190 and TW3786

1.4 Applied Standards

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

- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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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.

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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X plane with Earphone for Tx0 and Z plane with Adapter for Tx1 as worst plane.

Modulation Type	Modulation
А	QPSK
В	16QAM
С	64QAM
D	256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	10 MHz or less	Full	М
Bandwidth	A, B, C, D	All	Full	М
CBE	BE A, B, C, D	5 MHz	1RB	L, M, H
ODL		All	Full	
ACLR, Mask	A, B, C, D	5 MHz	1RB	L, M, H
ACLK, Mask	А, Б, С, Б	All	Full	L, IVI, □
CSE	А	Minimum	1RB	L, M, H
Frequency Stability	А	10 MHz or less	Full	M
RSE	А	20MHz	1RB	L, M, H

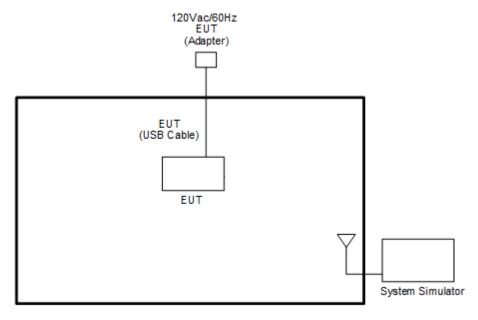
Remark:

- Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
- 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
- During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.
- 4. All the radiated test cases were performed with Adapter 1 and USB Cable 3.

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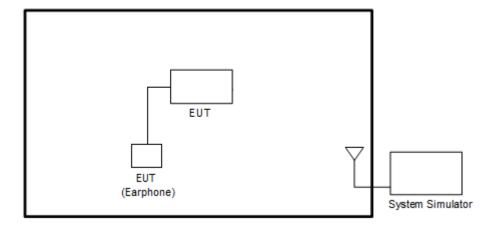
2.2 Connection Diagram of Test System

<EUT with Adapter>



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<EUT with Earphone>



2.3 Support Unit used in test configuration

Iten	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

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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.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List						
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest		
20	Channel	55340	55990	56640		
20	Frequency	3560.0	3625.0	3690.0		
45	Channel	55315	55990	56665		
15	Frequency	3557.5	3625.0	3692.5		
10	Channel	55290	55990	56690		
10	Frequency	3555.0	3625.0	3695.0		
5	Channel	55265	55990	56715		
ΰ	Frequency	3552.5	3625.0	3697.5		

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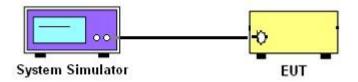
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

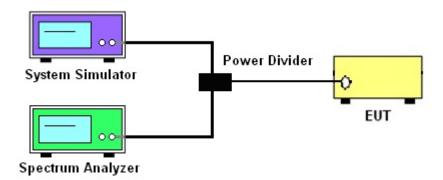
3.1.1 Test Setup

3.1.2 Conducted Output Power

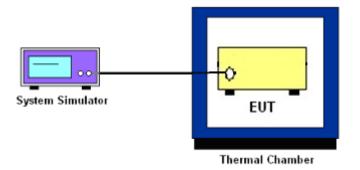


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



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

3.2.1 Description of the Conducted Output Power 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.

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3.2.2 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.

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3.3 Peak-to-Average Ratio

3.3.1 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.

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3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

- 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.
- 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 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

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The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT - LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

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3.5 Occupied Bandwidth

3.5.1 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

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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.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.

2. 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.

3. 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.

4. Set the detection mode to peak, and the trace mode to max hold.

5. 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)

6. Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

7. 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.

8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured

bandwidth.

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3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
- 5. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

- The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
- 2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
- 3. The measured ACLR ratio shall be at least 30 dB.

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3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. 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.

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- 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.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is -40dBm/MHz.

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3.8 Frequency Stability

3.8.1 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.

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3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. 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.
- 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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was placed in a temperature chamber at 25±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 measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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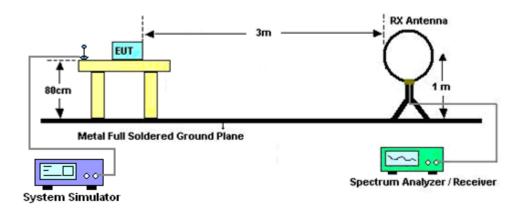
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

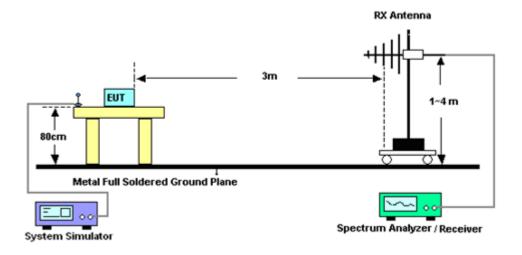
4.2 Test Setup

For radiated emissions below 30MHz



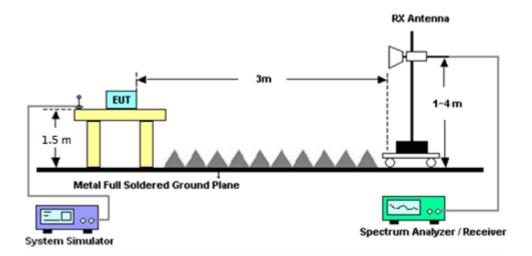
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For radiated emissions from 30MHz to 1GHz



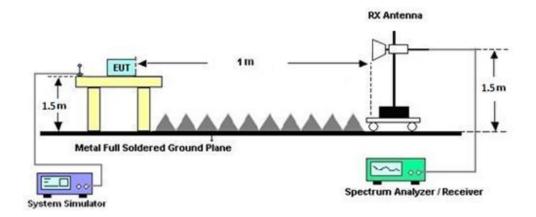
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For radiated emissions from 1GHz to 18GHz



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For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

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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 -40dBm / MHz.

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

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

- 1. 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.
- 2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- To convert spectrum reading E(dBuV/m) to EIRP(dBm)
 EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules.
- 7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level Preamp Factor.
- 8. ERP (dBm) = EIRP (dBm) 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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Jul. 14, 2023~ Aug. 09, 2023	Oct. 12, 2023	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Sep. 27, 2022	Jul. 14, 2023~ Aug. 09, 2023	Sep. 26, 2023	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 07, 2022	Jul. 14, 2023~ Aug. 09, 2023	Sep. 06, 2023	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V;0A~6A	Dec. 29, 2022	Jul. 14, 2023~ Aug. 09, 2023	Dec. 28, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	Jul. 14, 2023~ Aug. 09, 2023	Jan. 05, 2024	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 28, 2023	Aug. 29, 2023~ Oct. 05, 2023	Feb. 27, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Aug. 29, 2023~ Oct. 05, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 31, 2023	Aug. 29, 2023~ Oct. 05, 2023	Jul. 30, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2022	Aug. 29, 2023~ Oct. 05, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PAM-103	161075	10MHz~1GHz	Mar. 21, 2023	Aug. 29, 2023~ Oct. 05, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Aug. 29, 2023~ Oct. 05, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Aug. 29, 2023~ Oct. 05, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Aug. 29, 2023~ Oct. 05, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Aug. 29, 2023~ Oct. 05, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Aug. 29, 2023~ Oct. 05, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Aug. 29, 2023~ Oct. 05, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Aug. 29, 2023~ Oct. 05, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Aug. 29, 2023~ Oct. 05, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Aug. 29, 2023~ Oct. 05, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP161250	N/A	Jul. 26, 2023	Aug. 29, 2023~ Oct. 05, 2023	Jul. 25, 2024	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 29, 2023~ Oct. 05, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 29, 2023~ Oct. 05, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 29, 2023~ Oct. 05, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 29, 2023~ Oct. 05, 2023	N/A	Radiation (03CH12-HY)

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6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of	3.07 dB
Confidence of 95% (U = 2Uc(y))	3.07 db

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.63 dB
Confidence of 95% (U = $2UC(y)$)	

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

Measuring Uncertainty for a Level of	4.14 dB
Confidence of 95% (U = 2Uc(y))	4.14 UB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

<Tx0>

<1X0>	LTE	Band 48 M	laximum A	verage Po	wer [dBm]	(GT - LC =	= -2.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0		23.73	23.70	24.01		
20	1	49		23.59	23.53	23.86		
20	1	99		23.54	23.45	23.77		
20	50	0	QPSK	21.60	21.51	21.84	21.51	0.1416
20	50	24		21.59	21.47	21.78		
20	50	50		21.55	21.41	21.72		
20	100	0		21.59	21.47	21.80		
20	1	0		22.77	22.72	22.96		
20	1	49		22.70	22.55	22.75		
20	1	99		22.64	22.44	22.77		
20	50	0	16-QAM	20.69	20.54	20.89	20.46	0.1112
20	50	24		20.63	20.53	20.84		
20	50	50		20.60	20.48	20.77		
20	100	0		20.64	20.55	20.84		
20	1	0		21.63	21.49	21.82		
20	1	49		21.50	21.36	21.69		
20	1	99		21.44	21.29	21.55		
20	50	0	64-QAM	20.64	20.59	20.88	19.32	0.0855
20	50	24		20.62	20.55	20.82		
20	50	50		20.54	20.46	20.76		
20	100	0		20.61	20.51	20.81		
20	1	0		19.23	18.72	19.39		
20	1	49		18.99	18.63	19.30		
20	1	99		19.08	18.65	19.41		
20	50	0	256-QAM	18.20	17.88	18.51	16.91	0.0491
20	50	24		18.21	17.85	18.53		
20	50	50		18.23	17.86	18.54		
20	100	0		18.16	17.80	18.48		
Limit	EIRP	< 23dBm/1	0MHz		Result		Pa	ISS

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Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC =	= -2.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0		23.73	23.61	23.92		
15	1	37		23.59	23.43	23.79		
15	1	74		23.61	23.47	23.73		
15	36	0	QPSK	21.70	21.58	21.90	21.42	0.1387
15	36	20		21.66	21.54	21.85		
15	36	39		21.64	21.54	21.84		
15	75	0		21.65	21.57	21.87		
15	1	0		22.88	22.78	23.06		
15	1	37		22.84	22.72	22.97		
15	1	74		22.74	22.63	22.84		1
15	36	0	16-QAM	20.72	20.61	20.91	20.56	0.1138
15	36	20		20.72	20.60	20.89		
15	36	39		20.67	20.58	20.86		
15	75	0		20.73	20.64	20.93		
15	1	0		21.89	21.75	21.92		
15	1	37		21.69	21.50	21.82		
15	1	74		21.75	21.51	21.84		
15	36	0	64-QAM	20.79	20.68	20.98	19.42	0.0875
15	36	20		20.74	20.62	20.92		
15	36	39		20.73	20.61	20.88		
15	75	0		20.68	20.57	20.84		
15	1	0		19.11	18.53	19.24		
15	1	37		18.84	18.48	19.15		
15	1	74		18.89	18.53	19.28		
15	36	0	256-QAM	18.10	17.69	18.39	16.78	0.0476
15	36	20		18.05	17.67	18.37		
15	36	39		18.11	17.69	18.40		
15	75	0		18.05	17.62	18.35		
Limit	EIRP	< 23dBm/1	0MHz		Result			ISS

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC =	= -2.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0		23.80	23.68	23.98		
10	1	25		23.61	23.49	23.79		
10	1	49		23.66	23.51	23.80		
10	25	0	QPSK	21.64	21.56	21.88	21.48	0.1406
10	25	12		21.62	21.53	21.83]	
10	25	25		21.61	21.55	21.85		
10	50	0		21.62	21.54	21.83		
10	1	0		22.87	22.79	23.06		
10	1	25		22.78	22.68	22.94		
10	1	49		22.78	22.60	22.85		
10	25	0	16-QAM	20.81	20.68	20.98	20.56	0.1138
10	25	12		20.76	20.67	20.96		
10	25	25		20.75	20.66	20.96		
10	50	0		20.65	20.55	20.86		
10	1	0		21.78	21.51	21.86		0.0863
10	1	25		21.62	21.42	21.68		
10	1	49		21.58	21.41	21.71		
10	25	0	64-QAM	20.72	20.58	20.93	19.36	
10	25	12		20.69	20.58	20.89		
10	25	25		20.69	20.53	20.87		
10	50	0		20.66	20.58	20.86		
10	1	0		19.09	18.58	19.25		
10	1	25		18.84	18.48	19.16		
10	1	49		18.98	18.55	19.31		
10	25	0	256-QAM	18.06	17.68	18.35	16.81	0.0480
10	25	12		18.02	17.67	18.43		
10	25	25		18.08	17.70	18.39		
10	50	0		18.04	17.67	18.30		
Limit	EIRP	< 23dBm/1	0MHz		Result		Pa	iss

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC :	= -2.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0		23.72	23.58	23.89		
5	1	12		23.64	23.67	23.96		
5	1	24		23.73	23.58	23.85		
5	12	0	QPSK	21.72	21.57	21.89	21.46	0.1400
5	12	7		21.68	21.64	21.94		
5	12	13		21.68	21.61	21.89		
5	25	0		21.66	21.60	21.87		
5	1	0		22.85	22.78	23.02		
5	1	12		22.86	22.75	22.99		
5	1	24		22.89	22.82	23.01		
5	12	0	16-QAM	20.72	20.60	20.85	20.52	0.1127
5	12	7		20.70	20.65	20.90		
5	12	13		20.69	20.58	20.84		
5	25	0		20.72	20.70	20.98		
5	1	0		21.47	21.43	21.75		0.0841
5	1	12		21.49	21.35	21.60		
5	1	24		21.38	21.35	21.69		
5	12	0	64-QAM	20.66	20.58	20.90	19.25	
5	12	7		20.69	20.52	20.90		
5	12	13		20.64	20.55	20.87		
5	25	0		20.66	20.54	20.93		
5	1	0		19.06	18.52	19.23		
5	1	12		18.79	18.43	19.12		
5	1	24		18.96	18.49	19.26		
5	12	0	256-QAM	18.08	17.75	18.37	16.76	0.0474
5	12	7		18.08	17.66	18.40		
5	12	13		18.03	17.69	18.38		
5	25	0		17.99	17.60	18.38		
Limit	EIRP	< 23dBm/1	0MHz		Result		Pa	ISS

<Tx1>

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC :	= -3.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0		24.24	24.27	24.29		
20	1	49		24.21	24.13	24.19		
20	1	99		24.09	23.99	24.07		
20	50	0	QPSK	22.13	22.06	22.15	20.79	0.1199
20	50	24		22.08	21.96	22.10		
20	50	50		22.03	21.91	22.03		
20	100	0		22.10	22.02	22.12		
20	1	0		23.40	23.51	23.44		
20	1	49		23.29	23.35	23.30		
20	1	99		23.23	23.19	23.23		
20	50	0	16-QAM	21.17	21.14	21.21	20.01	0.1002
20	50	24		21.16	21.06	21.15		
20	50	50		21.13	20.99	21.09		
20	100	0		21.14	21.09	21.18		
20	1	0		22.25	22.24	22.07		
20	1	49		22.25	22.18	22.00		
20	1	99		22.12	22.08	21.98		
20	50	0	64-QAM	21.18	21.16	21.18	18.75	0.0750
20	50	24		21.16	21.08	21.17		
20	50	50		21.12	21.02	21.09		
20	100	0		21.12	21.11	21.14		
20	1	0		19.26	19.24	19.00		
20	1	49		19.23	19.31	19.07		
20	1	99		19.26	19.32	19.09		
20	50	0	256-QAM	18.43	18.42	18.24	15.82	0.0382
20	50	24		18.39	18.43	18.23		
20	50	50		18.39	18.43	18.24		
20	100	0		18.37	18.41	18.23		
Limit	EIRP	< 23dBm/1	0MHz		Result		Pa	SS

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC :	= -3.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0		24.18	24.24	24.22		
15	1	37		24.03	24.11	24.11		
15	1	74		24.12	24.08	24.00		
15	36	0	QPSK	22.16	22.21	22.14	20.74	0.1186
15	36	20		22.10	22.15	22.08		
15	36	39		22.10	22.11	22.04		
15	75	0		22.13	22.12	22.03		
15	1	0		23.30	23.34	23.32		
15	1	37		23.19	23.28	23.22		
15	1	74		23.27	23.20	23.13		
15	36	0	16-QAM	21.21	21.24	21.18	19.84	0.0964
15	36	20		21.16	21.20	21.14		
15	36	39		21.15	21.19	21.10		
15	75	0		21.19	21.23	21.15		
15	1	0		22.17	22.26	22.21		
15	1	37		22.24	22.10	22.06		
15	1	74		22.11	21.98	22.08		
15	36	0	64-QAM	21.21	21.30	21.27	18.76	0.0752
15	36	20		21.17	21.25	21.20		
15	36	39		21.18	21.22	21.19		
15	75	0		21.17	21.20	21.14		
15	1	0		19.16	19.15	18.99		
15	1	37		19.14	19.25	18.98		
15	1	74		19.19	19.22	19.09		
15	36	0	256-QAM	18.42	18.34	18.24	15.75	0.0376
15	36	20		18.34	18.43	18.15		
15	36	39		18.37	18.34	18.24		
15	75	0		18.29	18.39	18.16		
Limit	EIRP	< 23dBm/1	0MHz	Result			Pa	ISS

	LTE	Band 48 N	laximum A	verage Po	wer [dBm]	(GT - LC :	= -3.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0		24.23	24.28	24.24		
10	1	25		24.02	24.13	24.02		
10	1	49		24.12	24.18	24.12		
10	25	0	QPSK	22.12	22.18	22.12	20.78	0.1197
10	25	12		22.09	22.16	22.05		
10	25	25		22.13	22.14	22.03		
10	50	0		22.11	22.12	21.99		
10	1	0		23.43	23.45	23.43		
10	1	25		23.35	23.43	23.28		
10	1	49		23.35	23.36	23.21		
10	25	0	16-QAM	21.27	21.34	21.27	19.95	0.0989
10	25	12		21.25	21.29	21.21		
10	25	25		21.24	21.28	21.19		
10	50	0		21.14	21.14	21.11		
10	1	0		22.23	22.17	22.21		
10	1	25		22.12	22.08	22.08		
10	1	49		22.10	22.08	22.10		
10	25	0	64-QAM	21.17	21.23	21.17	18.73	0.0746
10	25	12		21.14	21.24	21.18		
10	25	25		21.14	21.18	21.10		
10	50	0		21.16	21.20	21.12		
10	1	0		19.21	19.24	18.90		
10	1	25		19.18	19.25	19.04		
10	1	49		19.23	19.22	19.02		
10	25	0	256-QAM	18.33	18.38	18.18	15.75	0.0376
10	25	12		18.30	18.43	18.19		
10	25	25		18.33	18.37	18.22	1	
10	50	0		18.30	18.38	18.19		
Limit	EIRP	< 23dBm/1	0MHz		Result			ISS

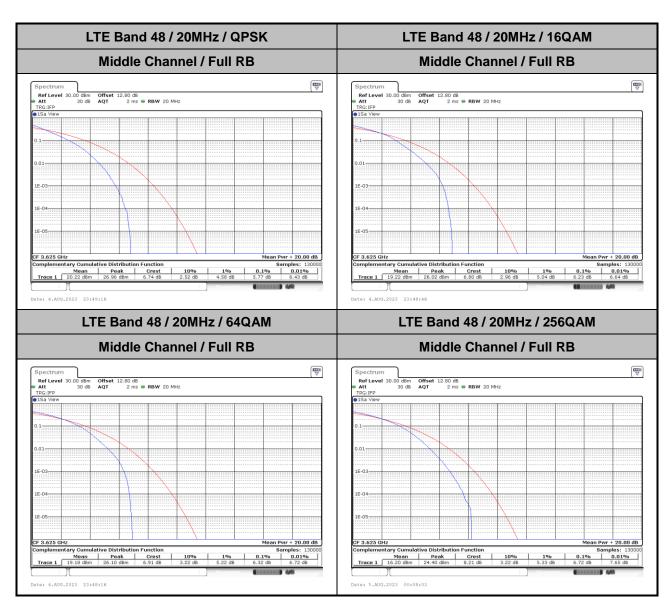
LTE Band 48 Maximum Average Power [dBm] (GT - LC = -3.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)		
5	1	0		24.14	24.13	24.23				
5	1	12		24.11	24.18	24.15]			
5	1	24		24.15	24.16	24.24		0.1186		
5	12	0	QPSK	22.15	22.26	22.35	20.74			
5	12	7		22.13	22.29	22.28				
5	12	13		22.18	22.23	22.31				
5	25	0		22.16	22.12	22.16				
5	1	0		23.43	23.38	23.33				
5	1	12		23.42	23.33	23.43]	0.0984		
5	1	24	16-QAM	23.37	23.29	23.39				
5	12	0		21.16	21.26	21.33	19.93			
5	12	7		21.12	21.27	21.31				
5	12	13		21.14	21.21	21.29				
5	25	0		21.22	21.28	21.34				
5	1	0		22.23	22.19	22.33	18.88	0.0773		
5	1	12		22.24	22.06	22.38				
5	1	24		22.15	22.14	22.27				
5	12	0	64-QAM	21.17	21.27	21.38				
5	12	7		21.19	21.24	21.39				
5	12	13		21.21	21.25	21.34				
5	25	0		21.16	21.23	21.22				
5	1	0		19.24	19.22	19.11				
5	1	12		19.15	19.23	19.13				
5	1	24	256-QAM	19.23	19.24	19.24	15.74			
5	12	0		18.35	18.33	18.32		0.0375		
5	12	7		18.35	18.34	18.30				
5	12	13		18.31	18.35	18.37				
5	25	0		18.27	18.33	18.35				
Limit	EIRP	< 23dBm/1	0MHz		Result	Pass				

LTE Band 48

Peak-to-Average Ratio

Mode						
Mod.	QPSK 16QAM		64QAM	256QAM	Limit: 13dB	
RB Size	Full RB	Full RB	Full RB	Full RB	Result	
Middle CH	5.77	6.23	6.32	6.72	PASS	

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26dB Bandwidth

Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.14	4.71	10.39	10.33	14.51	14.54	18.62	18.90
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz 3MHz			5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	5.07	5.06	9.83	9.91	14.24	14.54	19.42	18.78

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LTE Band 48 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM 13.53 dBn 3.62327200 GH: 26.00 dE 4.705000000 MH: 15.21 dBn 3.62501000 GH: 26.00 df 5.135000000 MH: M1[1] M1[1] 10 dBm -20 dBm--30 dBm--50 dBm -50 dBm-Span 10.0 MHz Span 10.0 MHz Function Result
5.135 MHz
26.00 dB
706.0 Type Ref Trc Function n ndB down Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

1Pk Max

 Ref Level 30.00 dBm
 Offset 12.80 dB ⊕ RBW 300 kHz

 Att
 30 dB
 SWT
 12.6 μs ⊕ VBW
 1 MHz
 Mode Auto FFT

 SGL Count 100/100
 1PK Max

 15.04 dBn 3.6212840 GH: 26.00 df 10.390000000 MH: 348. 13.42 dBr 3.6281970 GH 26.00 di M1[1] M1[1] dBm -10 dBm--30 dBm 30. dBm -40 dBm--50 dBm-CF 3.625 GHz Span 20.0 MHz Span 20.0 MHz Function Result 10.39 MHz 26.00 dB 348.5 Function Result 10.33 MHz 26.00 dB 351.2
 X-value
 Y-value
 Function

 3.621284 GHz
 15.04 dBm
 nd8 down

 3.619585 GHz
 -10.94 dBm
 nd8

 3.629975 GHz
 -10.84 dBm
 Q factor

 X-value
 Y-value
 Function

 3.628197 GHz
 13.42 dBm
 ndB down

 3.619785 GHz
 -12.41 dBm
 ndB

 3.630115 GHz
 -12.58 dBm
 Q factor
 Type Ref Trc Type Ref Trc Date: 4.AUG.2023 23:23:04 Date: 4.AUG.2023 23:23:32 Middle Channel / 15MHz / QPSK Middle Channel / 15MHz / 16QAM 14.49 dBi 3.6229320 GF 11.79 dBn 3.6199650 GH 10 dBm-249 249 -10 dBm -20 dBm--50 dBm -60 dBm-Function Result 14,505 MHz 26,00 dB 249.8 Function Result
 X-value
 Y-value
 Function

 3.622932 GHz
 14.49 dBm
 ndB down

 3.617657 GHz
 -11.48 dBm
 ndB

 3.632163 GHz
 -11.66 dBm
 Q factor
 Type Ref Trc
 X-value
 Y-value
 Function

 3.619965 GHz
 11.79 dBm
 ndB down

 3.617927 GHz
 -15.38 dBm
 ndB

 3.632463 GHz
 -14.26 dBm
 Q factor

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Date: 4.AUG.2023 23:35:27

FAX: 886-3-328-4978

Date: 4.AUG.2023 23:34:59

Date: 4.AUG.2023 23:36:10

FAX: 886-3-328-4978

LTE Band 48 Middle Channel / 20MHz / QPSK Middle Channel / 20MHz / 16QAM 13.21 dBn 3.6325520 GH; 26.00 dE 18.621000000 MH; 11.24 dBm 3.6278370 GHz 26.00 dE 18.901000000 MHz M1[1] M1[1] VX Bw 10 dBm-195 20 dBm -20 dBm 30 dBm--40 dBm--50 dBm 50 dBm -60 dBm 60 dBm Span 40.0 MHz CF 3.625 GHz Function Result 18.621 MHz 26.00 dB 195.1 Type Ref Trc Type Ref Trc Middle Channel / 10MHz / 64QAM Middle Channel / 5MHz / 64QAM Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 Offset 12.80 dB • RBW 100 kHz SWT 19 μs • VBW 300 kHz Mode Auto FFT 13.54 dBi 3.62644900 GH 26.00 d M1[1] M1[1] dBm -10 dBm-10 dBm 40 dBm 40 dBm-50 dBm CF 3.625 GHz Span 10.0 MHz Span 20.0 MHz Function Result 5.065 MHz 26.00 dB 716.0 Function Result 9.83 MHz 26.00 dB 368.7
 X-value
 Y-value
 Function

 3.626449 GHz
 13.54 dBm
 nd8 down

 3.622512 GHz
 -12.50 dBm
 nd8

 3.627577 GHz
 -12.50 dBm
 Q factor

 X-value
 Y-value
 Function

 3.624061 GHz
 14.60 dBm
 ndB down

 3.619965 GHz
 -11.54 dBm
 ndB

 3.629795 GHz
 -11.38 dBm
 Q factor
 Type Ref Trc Type Ref Trc Date: 4.AUG.2023 23:12:15 Date: 4.AUG.2023 23:24:15 Middle Channel / 15MHz / 64QAM Middle Channel / 20MHz / 64QAM 11.41 dBr 3.6308340 11.86 dB 3.6269480 GF 20 dBm 10 dBm 10 dBm-254 -10 dBn 10 dBn -20 dBm 20 dBm -50 dBm 50 dBm -60 dBm--60 dBm-Function Result 14.236 MI
 X-value
 Y-value
 Function

 3.626948 GHz
 11.86 dBm
 nd8 down

 3.617927 GHz
 -14.67 dBm
 nd8

 3.632163 GHz
 -13.75 dBm
 Q factor

 Marker
 Y-value
 Function

 M1
 1
 3.630934 GHz
 11.41 dBm
 nd8 down

 T1
 1
 3.61525 GHz
 -14.73 dBm
 nd8 down

 T2
 1
 3.63467 GHz
 -14.78 dBm
 Q factor
 Function Result

Report No.: FG380306F

Date: 4.AUG.2023 23:48:01

LTE Band 48 Middle Channel / 10MHz / 256QAM Middle Channel / 5MHz / 256QAM 10.63 dBn 3.6212040 GH 26.00 di 9.98 dBn 3.62530000 GH: 26.00 df 5.055000000 MH: M1[1] M1[1] 10 dBm--20 dBm--50 dBm-Span 10.0 MHz Span 20.0 MHz Function Result
5.055 MHz
26.00 dB
717.2 Type Ref Trc
 X-value
 Y-value
 Function

 3.6253 GHz
 9.98 dBm
 nd8 down

 3.622393 GHz
 -16.00 dBm
 nd8

 3.627448 GHz
 -15.95 dBm
 Q factor

 Y-value
 Function

 10.63 dBm
 ndB down

 -15.10 dBm
 ndB

 -15.19 dBm
 Q factor
 Middle Channel / 15MHz / 256QAM Middle Channel / 20MHz / 256QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100
 Offset
 12.80 dB ● RBW 300 kHz

 SWT
 18.9 µs ● VBW 1 MHz
 Mode Auto FFT
 8.11 dBn 3.6325920 GH 10.78 dBn 3.6272780 GH: 26.00 df 14.535000000 MH: 249. M1[1] M1[1] dBm -10 dBm--30 dBm 48/dBm\ 40 dBm≥ -50 dBm-CF 3.625 GHz Span 40.0 MHz Span 30.0 MHz Function Result 14.535 MHz 26.00 dB 249.5 Function Result 18.781 MHz 26.00 dB 193.4 Type Ref Trc
 X-value
 Y-value
 Function

 3.627278 GHz
 10.78 dBm
 ndB down

 3.617897 GHz
 -15.49 dBm
 ndB

 3.632433 GHz
 -15.22 dBm
 Q factor

 X-value
 Y-value
 Function

 3.632592 GHz
 8.11 dBm
 ndB down

 3.615689 GHz
 -15.91 dBm
 ndB

 3.634471 GHz
 -18.71 dBm
 Q factor

Date: 5.AUG.2023 00:07:02

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FAX: 886-3-328-4978

Date: 5.AUG.2023 00:03:51

Occupied Bandwidth

Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.55	8.95	9.07	13.40	13.49	17.94	18.02
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz 3MHz			5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.50	9.03	9.01	13.46	13.46	17.90	17.98

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FAX: 886-3-328-4978

LTE Band 48 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM 14.90 dBr 3.62445100 GH 4.485514486 MH 13.24 dBn 3.62341200 GH: 4.545454545 MH: M1[1] M1[1] 10 dBm-20 dBm -20 dBm 30 dBm-30 dBm -50 dBm 50 dBm -60 dBm 60 dBm CF 3.625 GHz CF 3.625 GHz Span 10.0 MHz
 X-value
 Y-value
 Function

 3.624451 GHz
 14.90 dBm
 3.6227522 GHz
 10.09 dBm
 Occ Bw

 3.6272378 GHz
 8.52 dBm
 Occ Bw
 Type Ref Trc Type Ref Trc Function Result **Function Result** 4.485514486 MHz 4.545454545 MHz Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 Offset 12.80 dB • RBW 300 kHz SWT 12.6 μs • VBW 1 MHz Mode Auto FFT 15.47 dBr 3.6290160 GH 8.951048951 MH 15.11 dBm 3.6234620 GHz 9.070929071 MHz M1[1] dBm--10 dBm-10 dBm-30 dBm -30 dBm 40 dBm--40 dBm-50 dBm CF 3.625 GHz CF 3.625 GHz 1001 pts Span 20.0 MHz 1001 pts Span 20.0 MHz
 X-value
 Y-value
 Function

 3.629016 GHz
 15.47 dBm
 3.6205045 GHz

 3.6295945 GHz
 8.91 dBm
 Occ Bw

 3.6294585 GHz
 8.54 dBm

 X-value
 Y-value
 Function

 3.623462 GHz
 15.11 dBm

 3.6204446 GHz
 6.23 dBm
 Occ Bw

 3.6295155 GHz
 7.38 dBm
 Type Ref Trc Type Ref Trc Function Result **Function Result** 8.951048951 MHz Date: 4.AUG.2023 23:22:06 Date: 4.AUG.2023 23:22:35 Middle Channel / 15MHz / QPSK Middle Channel / 15MHz / 16QAM 15.06 dBi 3.6217330 GH 20 dBm 10 dBm-10 dBm--10 dBm 10 dBm -20 dBm--20 dBm 46 d8m✓ 40 dBm -50 dBm -50 dBm -60 dBm--60 dBm-1001 pts 1001 pts
 X-value
 Y-value
 Function

 3.621733 GHz
 15.06 dBm
 3.6182867 GHz
 8.56 dBm
 Occ Bw

 3.6316833 GHz
 7.56 dBm
 Occ Bw
 Occ Bw

 Marker
 Y-value
 Y-value
 Function

 M1
 1
 3.621763 GHz
 13.64 dbm
 13.64 dbm

 T1
 1
 3.612567 GHz
 6.72 dbm
 Occ Bw

 T2
 1
 3.6917433 GHz
 6.39 dbm
 Occ Bw
 Function Result Function Result

Report No.: FG380306F

13.486513487 MHz

Date: 4.AUG.2023 23:34:30

13.396603397 MHz

Date: 4.AUG.2023 23:34:01

LTE Band 48 Middle Channel / 20MHz / QPSK Middle Channel / 20MHz / 16QAM 12.63 dBr 3.6290360 GH 18.021978022 MH M1[1] M1[1] 10 dBm-10 dBm-20 dBm -20 dBm-30-d8m--50 dBm 50 dBm -60 dBm 60 dBm Span 40.0 MHz CF 3.625 GHz Type Ref Trc | Y-value | Function |
| 2 | 12.63 dBm |
| 2 | 4.46 dBm | Occ Bw |
| 2 | 6.94 dBm | Type Ref Trc Function Result **Function Result** 17.942057942 MHz 18.021978022 MHz Middle Channel / 5MHz / 64QAM Middle Channel / 10MHz / 64QAM Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 Offset 12.80 dB • RBW 100 kHz SWT 19 μs • VBW 300 kHz Mode Auto FFT 12.85 dBi 3.62438100 GH 4.495504496 MH M1[1] M1[1] dBm dBm--10 dBm-10 dBm--30 dBm 40 dBm-40 dBm--50 dBm CF 3.625 GHz CF 3.625 GHz Span 10.0 MHz 1001 pts Span 20.0 MHz 1001 pts
 X-value
 Y-value
 Function

 3.624391 GHz
 12.85 dBm
 3.6227423 GHz

 3.6227423 GHz
 7.35 dBm
 Occ Bw

 3.6272376 GHz
 6.23 dBm

 X-value
 Y-value
 Function

 3.622562 GHz
 14.71 dBm

 3.6204845 GHz
 7.65 dBm
 Occ Bw

 3.6295155 GHz
 8.15 dBm
 Type Ref Trc Type Ref Trc Function Result **Function Result** 4.495504496 MHz Date: 4.AUG.2023 23:12:01 Date: 4.AUG.2023 23:24:01 Middle Channel / 15MHz / 64QAM Middle Channel / 20MHz / 64QAM 20 dBm 10 dBm-10 dBm--10 dBn 10 dBm -20 dBm -20 dBm 30/dBm 40 dBm -50 dBm -50 dBm -60 dBm--60 dBm-1001 pts 1001 pts
 X-value
 Y-value
 Function

 3.620984 GHz
 13.65 dBm
 3.6182867 GHz
 6.80 dBm
 Occ Bw

 3.6317433 GHz
 7.79 dBm
 Occ Bw
 Occ Bw

 Marker
 Trope
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 3.626079 GHz
 12.99 dibm
 12.99 dibm

 T1
 1
 3.616049 GHz
 7.62 dbm
 Occ Bw

 T2
 1
 3.639951 GHz
 6.63 dbm
 Occ Bw
 Function Result Function Result

Report No.: FG380306F

17.902097902 MHz

Date: 4.AUG.2023 23:47:47

13.456543457 MHz

Date: 4.AUG.2023 23:35:56

LTE Band 48 Middle Channel / 5MHz / 256QAM Middle Channel / 10MHz / 256QAM M1[1] M1[1] 10 dBm-20 dBm -20 dBm -30 dBm 30 dBm -40 dBm--50 dBm 50 dBm 60 dBm Span 10.0 MHz CF 3.625 GHz Marker Type Ref Trc
 X-value
 Y-value
 Function

 3.62516 GHz
 9.96 dBm
 3.6227522 GHz
 4.62 dBm
 Occ Bw

 3.6272478 GHz
 3.47 dBm
 Occ Bw
 Type Ref Trc Y-value Function
11.53 dBm
5.49 dBm Occ Bw
5.38 dBm Function Result **Function Result** 4.495504496 MHz 9.010989011 MHz Middle Channel / 15MHz / 256QAM Middle Channel / 20MHz / 256QAM Ref Level 3.0.0 dbm Offset 12.80 db @ RBW 300 kHz

Att 30 db SWT 18.9 µs @ VSW 1 MHz Mode Auto FFT

SQL Count 100/100

© IFF Max Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 Offset 12.80 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT 10.02 dBr 3.6192760 GH 13.456543457 MH M1[1] M1[1] dBm--10 dBm-10 dBm 30 dBn -30 dBm home 40 dBm 46 08 100 -50 dBm -50 dBm CF 3.625 GHz Marker CF 3.625 GHz Span 30.0 MHz 1001 pts 1001 pts Span 40.0 MHz
 X-value
 Y-value
 Function

 3.633392 GHz
 9.99 dBm

 3.615969 GHz
 5.02 dBm
 Occ Bw

 3.633951 GHz
 3.44 dBm

 X-value
 Y-value
 Function

 3.619276 GHz
 10.02 dBm

 3.6183167 GHz
 4.80 dBm
 Occ Bw

 3.6317732 GHz
 5.23 dBm
 Type Ref Trc Function Result Function Result 13.456543457 MHz 17.982017982 MHz

Date: 5.AUG.2023 00:06:48

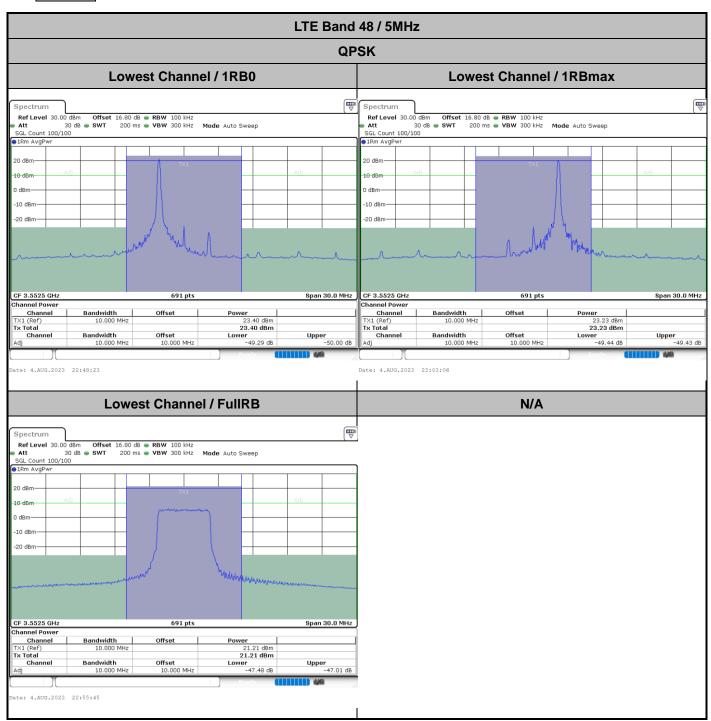
Report No.: FG380306F

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FAX: 886-3-328-4978

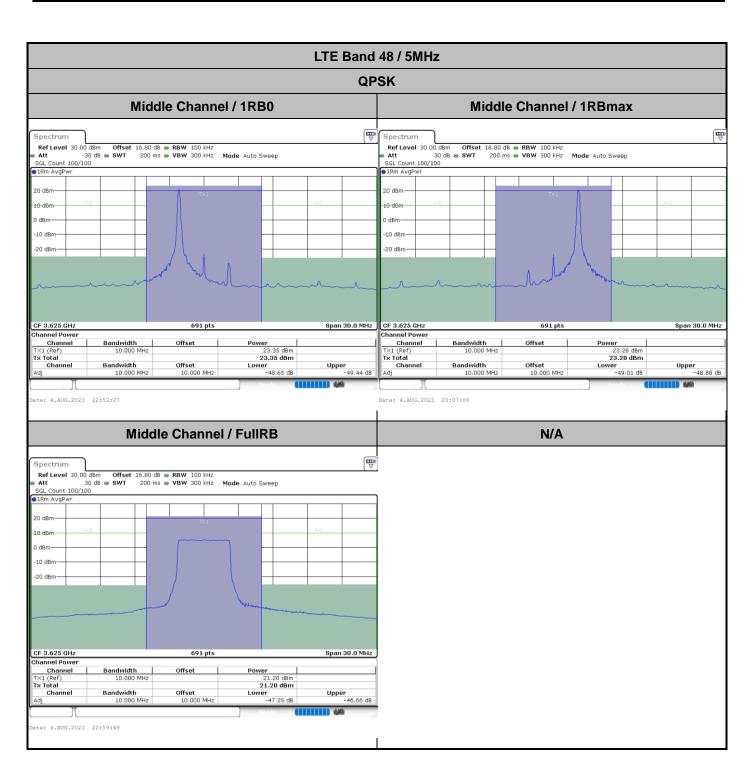
Date: 5.AUG.2023 00:03:37

ACLR

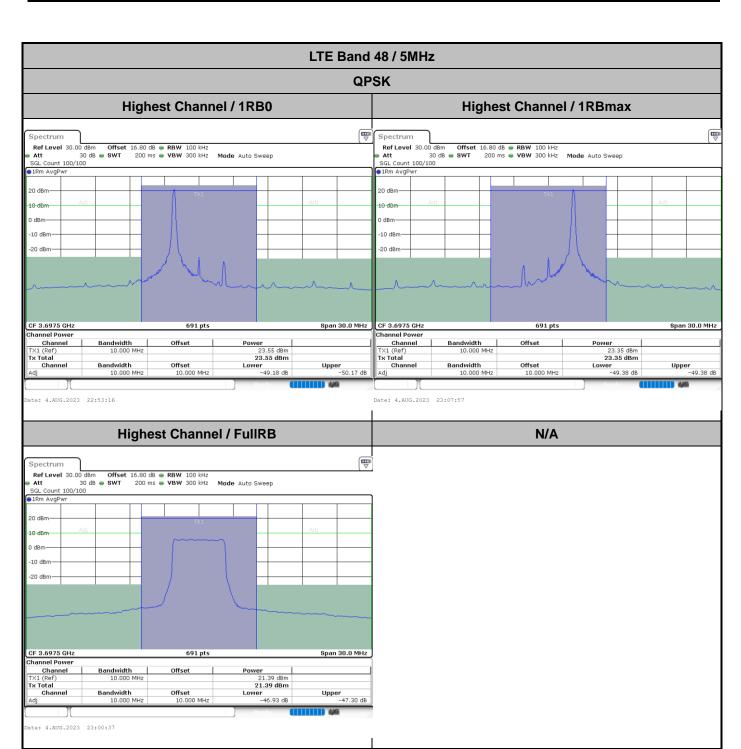


Report No.: FG380306F

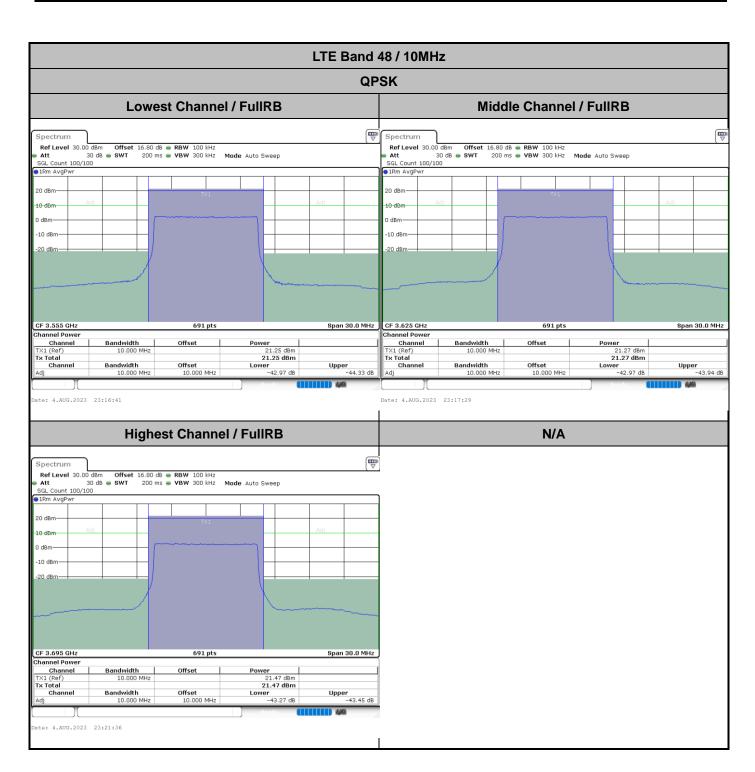
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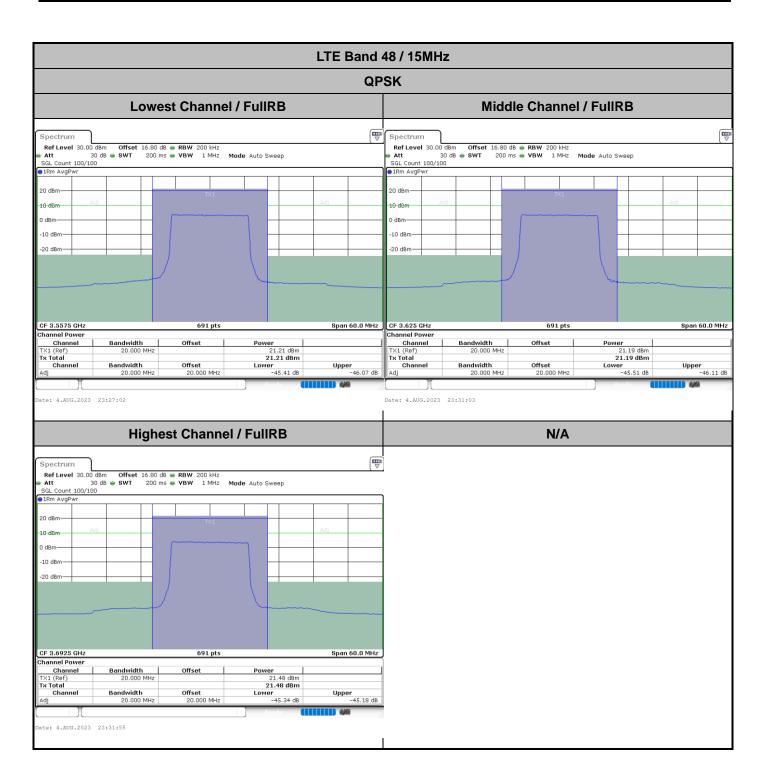
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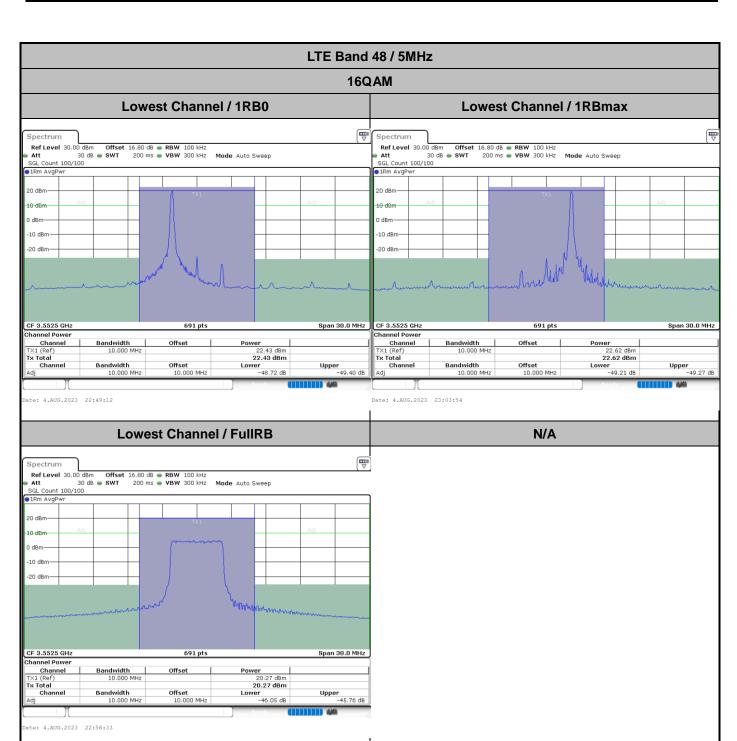
LTE Band 48 / 20MHz **QPSK Lowest Channel / FullRB** Middle Channel / FullRB Spectrum
 Ref Level
 30.00 dBm
 Offset
 16.80 dB
 RBW
 200 kHz
 Alt
 30 de
 SWT
 200 ms
 VBW
 1 MHz
 Mode
 Auto Sweep

 SGL Count 100/100
 1Rm AvgPwr
 1 MHz
 4 Miles
 4 Miles</t
 Ref Level
 30.00 dBm
 Offset
 16.80 dB
 RBW
 200 kHz

 Att
 30 dB
 SWT
 200 ms
 VBW
 1 MHz
 Mode
 Auto Sweep
 Count 100/100 O dBo -10 dBm -10 dBm Span 60.0 MHz CF 3.56 GHz 691 pts Span 60.0 MHz CF 3.625 GHz 691 pts Channel Power Channel Power 21.26 dBm 21.26 dBm 21.26 dBm Lower -43.28 dB Channel TX1 (Ref) Tx Total Power 21.27 dBm 21.27 dBm Lower -43.87 dB Channel
TX1 (Ref)
Tx Total Bandwidth 20.000 MHz Offset Offset Upper -43.74 dB Upper -43.20 dB Channel Bandwidth Channel Bandwidth ate: 4.AUG.2023 23:40:34 Date: 4.AUG.2023 23:41:22 **Highest Channel / FullRB** N/A CF 3.69 GHz 691 pts Span 60.0 MHz Channel Power 21.48 dBm 21.48 dBm Lower -42.87 dB Bandwidth 20.000 MHz Offset **Upper** -42.07 dB te: 4.AUG.2023 23:45:21

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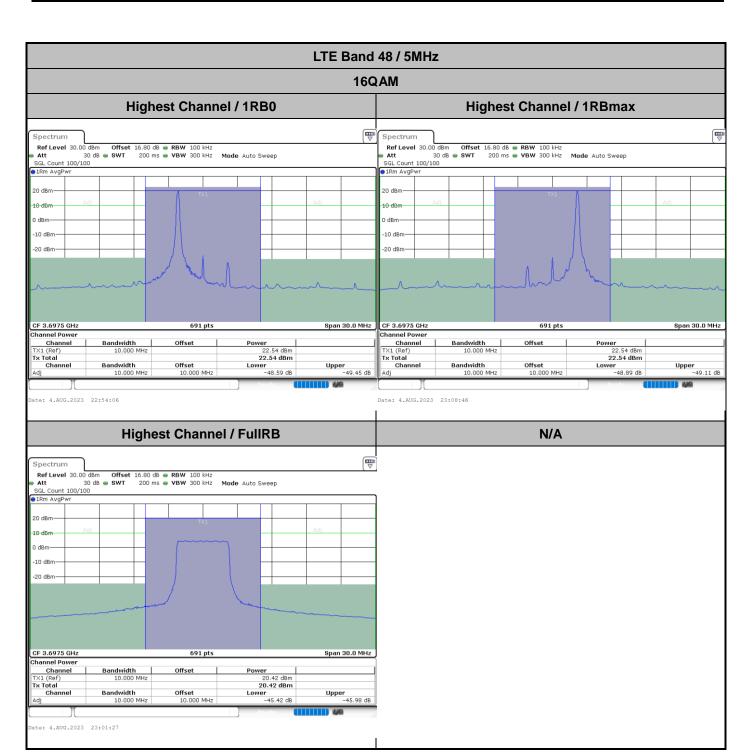
TEL: 886-3-327-3456 Page Number: A2-16 of 62

LTE Band 48 / 5MHz **16QAM** Middle Channel / 1RB0 Middle Channel / 1RBmax Spectrum
 Ref Level
 30.00 dBm
 Offset
 16.80 dB
 RBW
 100 kHz
 Mode
 Auto Sweep

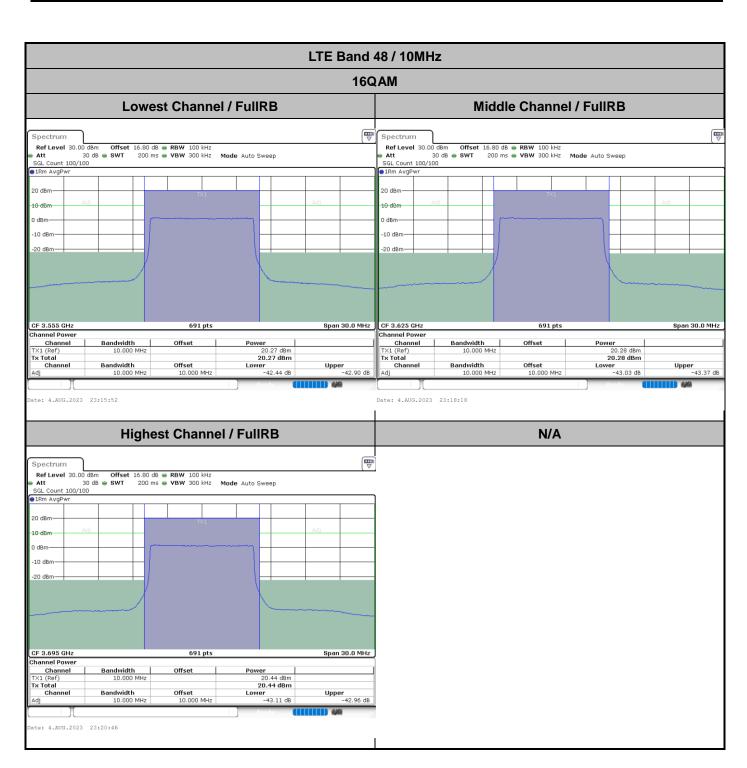
 Att
 30 dB
 SWT
 200 ms
 VBW
 300 kHz
 Mode
 Auto Sweep
 Att Count 100/100 SGL Count 100/100 O dBo -10 dBm -10 dBm -20 dBm -20 dBm CF 3.625 GHz 691 pts Span 30.0 MHz CF 3.625 GHz 691 pts Span 30.0 MHz Channel Power Channel Power 22.55 dBm 22.55 dBm 22.55 dBm Lower -48.60 dB Channel TX1 (Ref) Tx Total Power 22.51 dBm 22.51 dBm Channel
TX1 (Ref)
Tx Total Bandwidth 10.000 MHz Offset Offset Upper -48.95 dB Upper -48.62 dB Bandwidth Channel Bandwidth Channel Lower -48.32 dB ate: 4.AUG.2023 22:51:38 Date: 4.AUG.2023 23:06:20 Middle Channel / FullRB N/A CF 3.625 GHz 691 pts Span 30.0 MHz Channel Power 20.27 dBm 20.27 dBm 20.27 dBm Lower -46.35 dB Bandwidth 10.000 MHz Offset **Upper** -46.04 dB te: 4.AUG.2023 22:58:59

Report No.: FG380306F

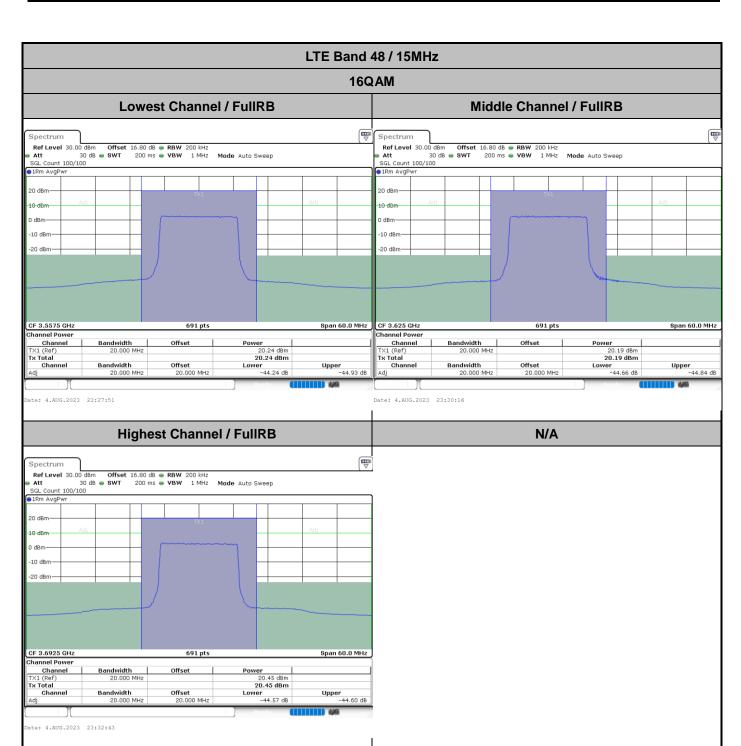
TEL: 886-3-327-3456 Page Number: A2-17 of 62



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TEL: 886-3-327-3456 Page Number: A2-20 of 62

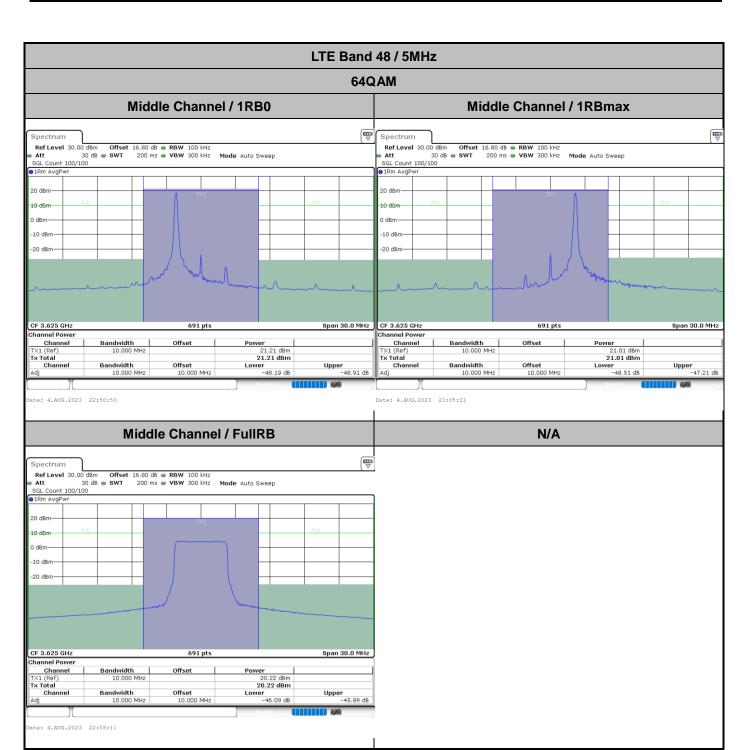


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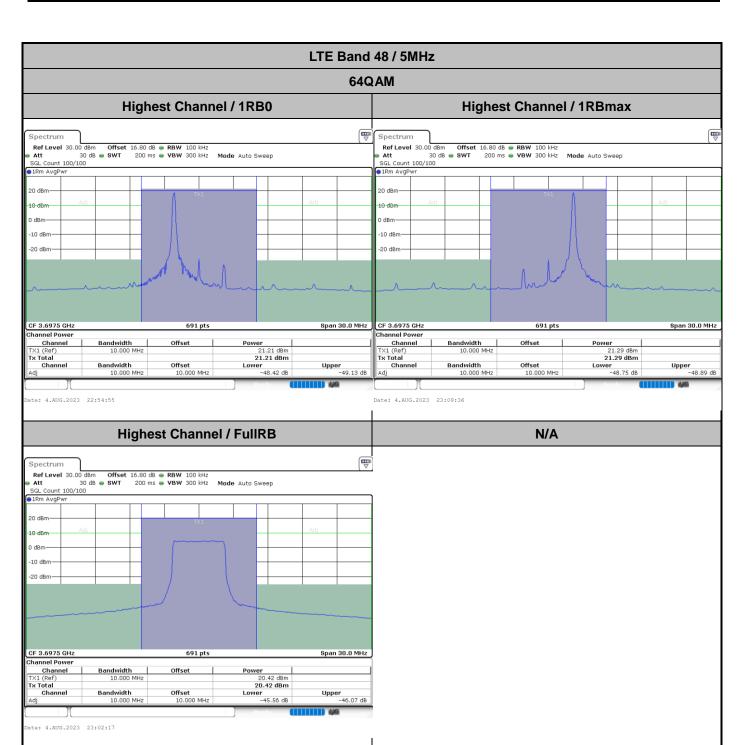
LTE Band 48 / 5MHz 64QAM Lowest Channel / 1RB0 **Lowest Channel / 1RBmax** Spectrum Ref Level 30.00 dBm Offse Ref Level 30.00 dBm Offset 16.80 dB ● RBW 100 kHz
Att 30 dB ● SWT 200 ms ● VBW 300 kHz Mode Auto Sweep Offset 16.80 dB • RBW 100 kHz SWT 200 ms • VBW 300 kHz Mode Auto Sweep Count 100/100 SGL Count 100/100 O dBo -10 dBm -10 dBm 20 dBm -20 dBm Mymmmmm CF 3.5525 GHz 691 pts Span 30.0 MHz CF 3.5525 GHz 691 pts Channel Power Channel Power Channel TX1 (Ref) Tx Total Power 20.98 dBm 20.98 dBm Lower -47.31 dB Channel
TX1 (Ref)
Tx Total Bandwidth 10.000 MHz Offset Offset 21.28 dBm 21.28 dBm 21.28 dBm Lower -48.27 dB Upper -45.44 dB Bandwidth Channel Bandwidth Channel ate: 4.AUG.2023 22:50:01 Date: 4.AUG.2023 23:04:43 Lowest Channel / FullRB N/A CF 3.5525 GHz 691 pts Span 30.0 MHz Channel Power 20.24 dBm 20.24 dBm 20.24 dBm Lower -45.56 dB Bandwidth 10.000 MHz Offset Upper -45.61 dB te: 4.AUG.2023 22:57:23

Report No.: FG380306F

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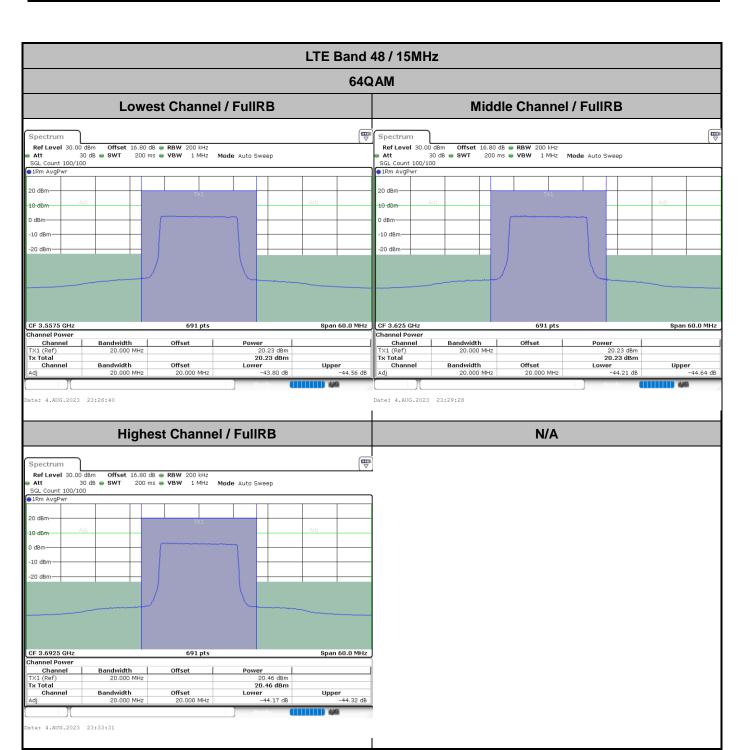
TEL: 886-3-327-3456 Page Number: A2-24 of 62

LTE Band 48 / 10MHz 64QAM **Lowest Channel / FullRB** Middle Channel / FullRB Spectrum
 Ref Level
 30.00 dBm
 Offset
 16.80 dB
 RBW
 100 kHz
 Mode
 Att
 30 de
 SWT
 200 ms
 VBW
 300 kHz
 Mode
 Auto Sweep

 SGL Count 100/100
 1Rm AvgPwr
 AvgPwr
 Auto Sweep
 Count 100/100 O dBo -10 dBm -10 dBm -20 dBm CF 3.555 GHz 691 pts Span 30.0 MHz CF 3.625 GHz 691 pts Span 30.0 MHz Channel Power Channel Power 20.22 dBm 20.22 dBm 20.22 dBm Lower -42.75 dB Channel
TX1 (Ref)
Tx Total 20.24 dBm 20.24 dBm 20.24 dBm Lower -42.30 dB Channel
TX1 (Ref)
Tx Total Bandwidth 10.000 MHz Offset Offset Upper -43.03 dB Upper -42.23 dB Bandwidth Channel Bandwidth Channel ate: 4.AUG.2023 23:15:03 Date: 4.AUG.2023 23:19:06 **Highest Channel / FullRB** N/A CF 3.695 GHz 691 pts Span 30.0 MHz Channel Power Power 20.47 dBm 20.47 dBm Lower -42.51 dB Bandwidth 10.000 MHz Offset **Upper** -42.69 dB te: 4.AUG.2023 23:19:56

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LTE Band 48 / 5MHz 256QAM Lowest Channel / 1RB0 **Lowest Channel / 1RBmax** Spectrum Ref Level 30.00 dBm Offset 16.80 dB • RBW 100 kHz
Att 30 dB • SWT 200 ms • VBW 300 kHz Mode Auto Sweep SGL Count 100/100 Count 100/100 O dBo -10 dBm -10 dBm -20 dBm -20 dBm CF 3.5525 GHz 691 pts Span 30.0 MHz CF 3.5525 GHz 691 pts Span 30.0 MHz Channel Power Channel Power Power 18.32 dBm 18.32 dBm Lower -45.57 dB Channel TX1 (Ref) Tx Total Power 18.21 dBm 18.21 dBm Lower -45.31 dB Channel
TX1 (Ref)
Tx Total Bandwidth 10.000 MHz Offset Upper -45.83 dB Upper -45.76 dB Channel Bandwidth Channel Bandwidth ate: 4.AUG.2023 23:50:10 Date: 4.AUG.2023 23:55:03 Lowest Channel / FullRB N/A CF 3.5525 GHz 691 pts Span 30.0 MHz Channel Power Power 17.25 dBm 17.25 dBm Lower -45.29 dB Bandwidth 10.000 MHz Offset **Upper** -44.49 dB

Report No.: FG380306F

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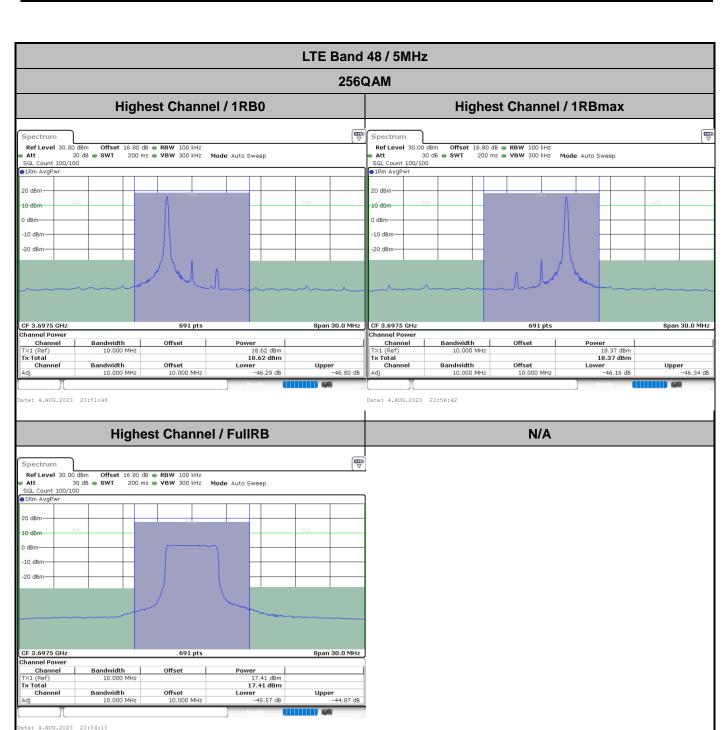
FAX: 886-3-328-4978

te: 4.AUG.2023 23:52:37

LTE Band 48 / 5MHz 256QAM Middle Channel / 1RB0 Middle Channel / 1RBmax Spectrum Ref Level 30.00 dBm Offset 16.80 dB • RBW 100 kHz
Att 30 dB • SWT 200 ms • VBW 300 kHz Mode Auto Sweep SGL Count 100/100 •1Rm AvgPwr Count 100/100 O dBo -10 dBm -10 dBm -20 dBm -20 dBm CF 3.625 GHz 691 pts Span 30.0 MHz CF 3.625 GHz 691 pts Span 30.0 MHz Channel Power Channel Power Power 18.13 dBm 18.13 dBm Lower -46.15 dB Channel TX1 (Ref) Tx Total Power 18.35 dBm 18.35 dBm Lower -45.18 dB Channel
TX1 (Ref)
Tx Total Bandwidth 10.000 MHz Offset Upper -44.60 dB Bandwidth Channel Bandwidth Channel ate: 4.AUG.2023 23:50:59 Date: 4.AUG.2023 23:55:53 Middle Channel / FullRB N/A Mode Auto Sweep CF 3.625 GHz 691 pts Span 30.0 MHz Channel Power Power 17.26 dBm 17.26 dBm Lower -45.40 dB Bandwidth 10.000 MHz Offset Upper -44.64 dB te: 4.AUG.2023 23:53:26

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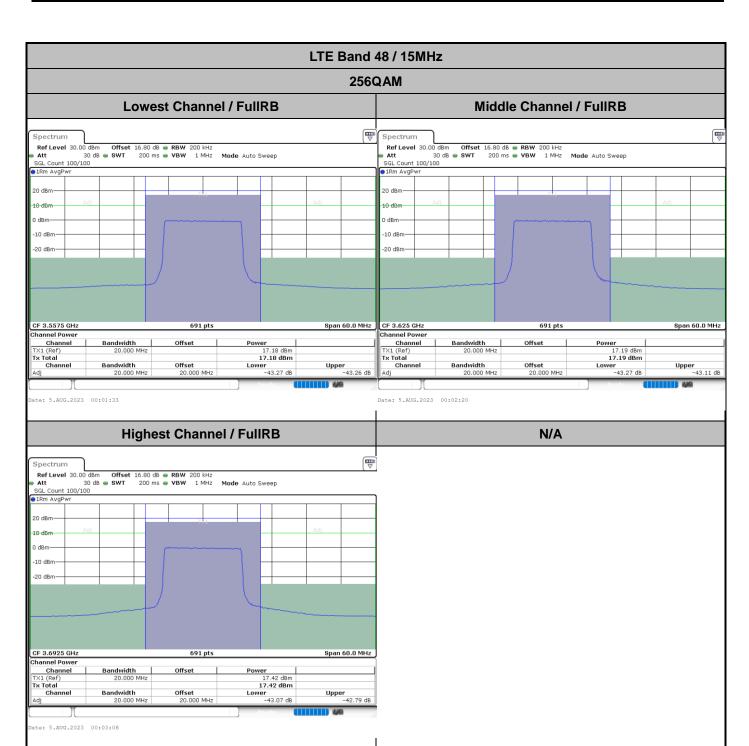
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