FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.

EQUIPMENT: Mobile Phone

BRAND NAME : XIAOMI

MODEL NAME : M2002F4LG FCC ID : 2AFZZF4G

STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 08, 2020 and completely tested on Mar. 20, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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

Sporton International (Kunshan) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG010822C	Rev. 01	Initial issue of report	Mar. 23, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule Description		Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
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	Reporting Only	PASS	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)	PASS	-
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 29.08 dB at 7760.000 MHz

Declaration of Conformity:

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

Comments and Explanations:

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

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1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature							
Equipment	Mobile Phone						
Brand Name	XIAOMI						
Model Name	M2002F4LG						
FCC ID	2AFZZF4G						
	GSM/WCDMA/LTE/NFC						
	WLAN 2.4GHz 802.11b/g/n HT20/HT40						
EUT cupports Padios application	WLAN 5GHz 802.11a/n HT20/HT40						
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80						
	Bluetooth BR/EDR/LE						
	FM Receiver /GNSS						
IMEL Co. do	Conducted: N/A						
IMEI Code	Radiation: 869667040021418/869667040021426						
HW Version	P1						
SW Version	MIUI11						
EUT Stage	Identical Prototype						

Remark: This is a variant report for M2002F4LG, the change note could be referred to the product equality declaration which is exhibit separately. According to the change, only the test cases of LTE Band 41 to full test from original report FG982703B.

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1.4 Product Specification of Equipment Under Test

	tandards-related Product Specification
	1.TE D. 10. 4050 7.MI. 4000 0.MI.
	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz
	LTE Band 4: 1710.7 MHz ~ 1754.3 MHz
	LTE Band 5: 824.7 MHz ~ 848.3 MHz
Tx Frequency	LTE Band 7: 2502.5 MHz ~ 2567.5 MHz
	LTE Band 26: 824.7MHz ~ 848.3 MHz
	LTE Band 38 : 2572.5MHz ~ 2617.5MHz
	LTE Band 41: 2537.5 MHz ~ 2652.5 MHz
	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz
	LTE Band 4: 2110.7 MHz ~ 2154.3 MHz
	LTE Band 5: 869.7 MHz ~ 893.3 MHz
Rx Frequency	LTE Band 7: 2622.5MHz ~ 2687.5 MHz
	LTE Band 26 : 869.7MHz ~ 893.3MHz
	LTE Band 38 : 2572.5MHz ~ 2617.5MHz
	LTE Band 41: 2537.5 MHz ~ 2652.5 MHz
	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz
Bandwidth	LTE Band 7: 5MHz/10MHz/15MHz/20MHz
	LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
	LTE Band 38: 5MHz/10MHz/15MHz/20MHz
	LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 41 : 22.94 dBm
· ····································	Top Antenna
	LTE Band 41 : -0.33 dBi
Antenna Gain	Bottom Antenna
	LTE Band 41 : 1.74 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink only)

Note:

- 1. The Maximum EIRP is calculated from Max Output power and Max antenna gain.
- 2. Max Output power falls on the bottom antenna.

1.5 Modification of EUT

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

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1.6 Maximum EIRP Power, Frequency Tolerance, and Emission Designator

Ľ	TE Band 41		QPSK		16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
5	2537.5 ~ 2652.5	4M49G7D	-	0.2904	4M50W7D	-	0.2344	
10	2540.0 ~ 2650.0	9M09G7D	0.0022	0.2917	9M05W7D	-	0.2377	
15	2542.5 ~ 2647.5	13M4G7D	-	0.2931	13M5W7D	-	0.2371	
20	2545.0 ~ 2645.0	18M5G7D	-	0.2938	18M3W7D	-	0.2393	
Ľ	TE Band 41			64Q	AM			
BW (MHz)	Frequency Range (MHz)	Emission I (99%)			Tolerance om)	Maxii EIRF		
5	2537.5 ~ 2652.5	4M51	W7D		=	0.1718		
10	2540.0 ~ 2650.0	8M99	W7D	-		0.1726		
15	2542.5 ~ 2647.5	13M4	W7D		-	0.1871		
20	2545.0 ~ 2645.0	18M4	W7D		-	0.1875		

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1.7 Testing Location

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

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

1.8 Test Software

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

1.9 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 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:

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

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Test Configuration of Equipment Under Test 2

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.

	Bandwidth (MI				IHz) Modulation			RB#			Test Channel					
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	41	•	-	v	v	v	v	v	v	v	٧	v	٧	٧	v	v
Peak-to-Av erage Ratio	41	1	-				v	v	v	v	٧		٧	٧	v	v
26dB and 99% Bandwidth	41	•	-	v	v	v	v	v	v	v			>	٧	v	v
Conducted Band Edge	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	41	-	-	v	v	v	v	v	v	v	٧			v	v	v
Frequency Stability	41	-	-		v			V					٧		v	
E.I.R.P	41	•	-	v	v	v	v	v	v	v	٧			٧	v	v
Radiated Spurious Emission	41	Worst Case							_	v						
Note	 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 spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported 															

reported.

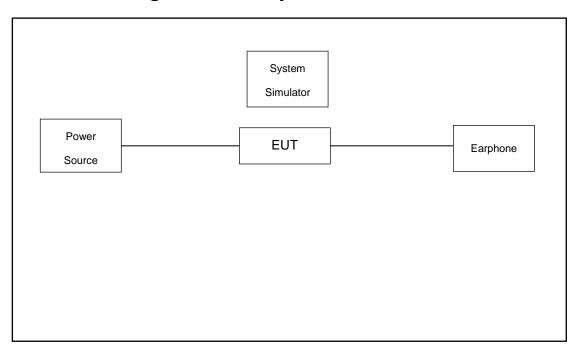
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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	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								
00	Channel	40140	40640	41140								
20	Frequency	2545	2595	2645								
15	Channel	40115	40640	41165								
15	Frequency	2542.5	2595	2647.5								
10	Channel	40090	40640	41190								
10	Frequency	2540	2595	2650								
5	Channel	40065	40640	41215								
0	Frequency	2537.5	2595	2652.5								

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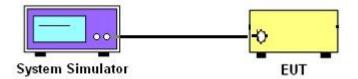
3 Conducted Test Items

3.1 Measuring Instruments

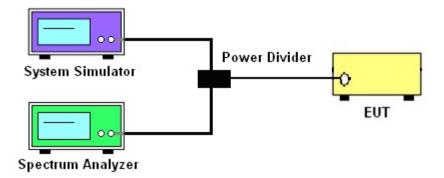
See list of measuring instruments of this test report.

3.2 Test Setup

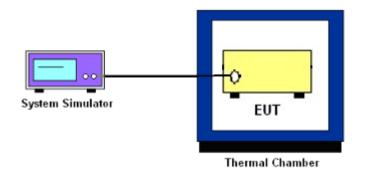
3.2.1 Conducted Output Power



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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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.

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.
- 5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 6. Set spectrum analyzer with RMS detector.
- 7. Offset has included the duty factor for LTE Band 41. Duty factor =10 log (1/x), where x is the measured duty cycle.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. Checked that all the results comply with the emission limit line.

Example:

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

- = P(W)- [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.
- 10. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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 43 + 10 log (P) dB.

For Band 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. Offset has included the duty factor for LTE Band 41. Duty factor =10 log (1/x), where x is the measured duty cycle
- 9. Taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. For Band 41

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.

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

- 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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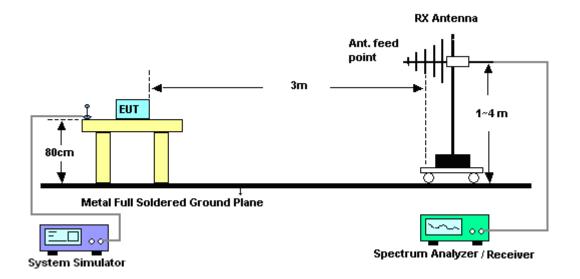
4 Radiated Test Items

4.1 Measuring Instruments

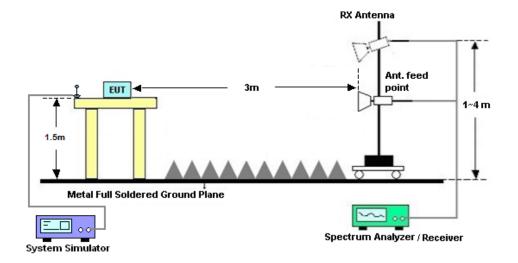
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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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
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.
- 13. For Band 41:

The limit line is derived from $55 + 10\log(P)dB$ below the transmitter power P(Watts)

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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	Nov. 02, 2019	Mar. 20, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 19, 2019	Mar. 20, 2020	Nov. 18, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 16, 2019	Mar. 13, 2020	Apr. 15, 2020	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2019	Mar. 13, 2020	May 29, 2020	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1648	1GHz~18GHz	Apr. 27, 2019	Mar. 13, 2020	Apr. 26, 2020	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jun. 05, 2019	Mar. 13, 2020	Jun. 04, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Mar. 13, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Jun. 14, 2019	Mar. 13, 2020	Jun. 13, 2020	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Mar. 13, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Apr. 15, 2019	Mar. 13, 2020	Apr. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 13, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 13, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 13, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of	3.3dB
Confidence of 95% (U = 2Uc(y))	0.000

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	2.8dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

		Lī	ΓE Band 4	1 Maximum Average	e Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		22.92	22.77	22.76
20	1	49		22.90	22.94	22.65
20	1	99		22.84	22.64	22.72
20	50	0	QPSK	21.97	21.82	21.77
20	50	24		21.97	21.82	21.75
20	50	50		21.93	21.72	21.73
20	100	0		21.95	21.74	21.75
20	1	0		22.05	21.92	21.92
20	1	49		21.99	21.81	21.80
20	1	99		21.93	21.75	21.86
20	50	0	16-QAM	21.08	20.90	20.87
20	50	24		21.04	20.86	20.88
20	50	50		21.05	20.83	20.83
20	100	0		21.07	20.85	20.83
20	1	0		20.99	20.86	20.88
20	1	49		20.92	20.76	20.76
20	1	99		20.90	20.68	20.79
20	50	0	64-QAM	20.26	20.08	20.03
20	50	24		20.22	20.03	20.02
20	50	50		20.18	20.00	19.99
20	100	0		20.28	20.07	20.12

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		Lī	ΓE Band 41	Maximum Average	e Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		22.93	22.79	22.78
15	1	37		22.87	22.68	22.83
15	1	74		22.93	22.73	22.79
15	36	0	QPSK	21.92	21.73	21.72
15	36	20		21.94	21.70	21.72
15	36	39		21.87	21.65	21.76
15	75	0		21.89	21.70	21.70
15	1	0		22.01	21.85	21.85
15	1	37		21.97	21.78	21.91
15	1	74		21.98	21.77	21.92
15	36	0	16-QAM	20.93	20.77	20.78
15	36	20		20.94	20.75	20.79
15	36	39		20.91	20.73	20.85
15	75	0		21.01	20.80	20.84
15	1	0		20.98	20.82	20.62
15	1	37		20.92	20.73	20.79
15	1	74		20.95	20.73	20.76
15	36	0	64-QAM	20.03	19.82	19.95
15	36	20		20.01	19.85	19.85
15	36	39		20.05	19.85	19.88
15	75	0		20.21	19.92	19.95

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LTE Band 41 Maximum Average Power [dBm] BW [MHz] **RB Size RB Offset** Mod Middle Highest Lowest 10 1 0 22.89 22.73 22.69 10 1 25 22.85 22.70 22.75 10 1 49 22.91 22.73 22.78 25 QPSK 21.91 21.78 21.71 10 0 10 25 12 21.94 21.75 21.83 10 25 25 21.91 21.73 21.78 10 50 0 21.93 21.77 21.71 10 1 0 22.02 21.87 21.82 10 1 25 21.96 21.82 21.92 1 10 49 21.96 21.79 21.84 10 25 0 16-QAM 20.98 20.83 20.83 10 25 12 21.00 20.82 20.93 10 25 25 21.00 20.78 20.90 0 21.02 20.85 20.81 10 50 10 1 0 20.62 20.48 20.48 10 1 25 20.60 20.46 20.54 10 1 49 20.63 20.46 20.53 10 25 0 64-QAM 20.04 19.84 19.84 10 25 12 20.07 19.87 19.93 10 25 25 20.05 19.84 19.91

20.00

19.82

50

10

0

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		Lī	ΓE Band 4	1 Maximum Average	e Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		22.89	22.69	22.72
5	1	12		22.85	22.69	22.74
5	1	24		22.87	22.66	22.70
5	12	0	QPSK	21.90	21.72	21.75
5	12	7		21.92	21.74	21.77
5	12	13		21.88	21.69	21.72
5	25	0		21.89	21.72	21.77
5	1	0		21.96	21.80	21.86
5	1	12		21.95	21.77	21.89
5	1	24		21.96	21.77	21.85
5	12	0	16-QAM	20.94	20.71	20.82
5	12	7		20.93	20.78	20.82
5	12	13		20.91	20.72	20.84
5	25	0		20.93	20.78	20.84
5	1	0		20.58	20.41	20.54
5	1	12		20.57	20.39	20.55
5	1	24		20.61	20.43	20.47
5	12	0	64-QAM	20.01	19.81	19.91
5	12	7		20.01	19.84	19.91
5	12	13		20.01	19.80	19.91
5	25	0		19.97	19.81	19.89

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EIRP

	LTE Band 41 (G_T - L_C = 1.74dB) QPSK												
Bandwidth		5M			10M		15M						
Channal	40065	40640	41215	40090	40640	41190	40115	40640	41165				
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
Frequency	2537.5	2595	2652.5	2540	2595	2650	2542.5	2595	2647.5				
(MHz)	2537.5	2595	2032.3	2540	2595	2650	2342.3	2595	2047.5				
Conducted Power (dBm)	22.89	22.69	22.72	22.91	22.73	22.78	22.93	22.79	22.78				
Conducted Power (Watts)	0.1945	0.1858	0.1871	0.1954	0.1875	0.1897	0.1963	0.1901	0.1897				
EIRP(dBm)	24.63	24.43	24.46	24.65	24.47	24.52	24.67	24.53	24.52				
EIRP(Watts)	0.2904	0.2773	0.2793	0.2917	0.2799	0.2831	0.2931	0.2838	0.2831				

	LTE Band 41 (G _T - L _C = 1.74dB) QPSK									
Bandwidth		20M								
Channel	40140	40640	41140							
Channel	(Low)	(Mid)	(High)							
Frequency	2545	2595	2645							
(MHz)	2545	2090	2045							
Conducted Power (dBm)	22.90	22.94	22.65							
Conducted Power (Watts)	0.1950	0.1968	0.1841							
EIRP(dBm)	24.64	24.68	24.39							
EIRP(Watts)	0.2911	0.2938	0.2748							

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	LTE Band 41 (G _T - L _C = 1.74dB) 16QAM												
Bandwidth		5M			10M			15M					
Channal	40065	40640	41215	40065	40640	41215	40065	40640	41215				
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
Frequency	2537.5	2595	2652.5	2537.5	2595	2652.5	2537.5	2595	2652.5				
(MHz)	2557.5	2595	2032.3	2557.5	2595	2032.3	2557.5	2595	2032.3				
Conducted Power (dBm)	21.96	21.80	21.86	22.02	21.87	21.82	22.01	21.85	21.85				
Conducted Power (Watts)	0.1570	0.1514	0.1535	0.1592	0.1538	0.1521	0.1589	0.1531	0.1531				
EIRP(dBm)	23.70	23.54	23.60	23.76	23.61	23.56	23.75	23.59	23.59				
EIRP(Watts)	0.2344	0.2259	0.2291	0.2377	0.2296	0.2270	0.2371	0.2286	0.2286				

	LTE Band 41 (G _T - L _C = 1.74dB) 16QAM										
Bandwidth		20M									
Channel	40140	40640	41140								
Channel	(Low)	(Mid)	(High)								
Frequency	2545	2595	2645								
(MHz)	2545	2090	2045								
Conducted Power (dBm)	22.05	21.92	21.92								
Conducted Power (Watts)	0.1603	0.1556	0.1556								
EIRP(dBm)	23.79	23.66	23.66								
EIRP(Watts)	0.2393	0.2323	0.2323								

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	LTE Band 41 (G _T - L _C = 1.74dB) 64QAM												
Bandwidth		5M			10M			15M					
Channal	40065	40640	41215	40065	40640	41215	40065	40640	41215				
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
Frequency	2537.5	2595	2652.5	2537.5	2595	2652.5	2537.5	2595	2652.5				
(MHz)	2557.5	2595	2032.3	2557.5	2595	2052.5	2037.5	2595	2032.3				
Conducted Power (dBm)	20.61	20.43	20.47	20.63	20.46	20.53	20.98	20.82	20.62				
Conducted Power (Watts)	0.1151	0.1104	0.1114	0.1156	0.1112	0.1130	0.1253	0.1208	0.1153				
EIRP(dBm)	22.35	22.17	22.21	22.37	22.20	22.27	22.72	22.56	22.36				
EIRP(Watts)	0.1718	0.1648	0.1663	0.1726	0.1660	0.1687	0.1871	0.1803	0.1722				

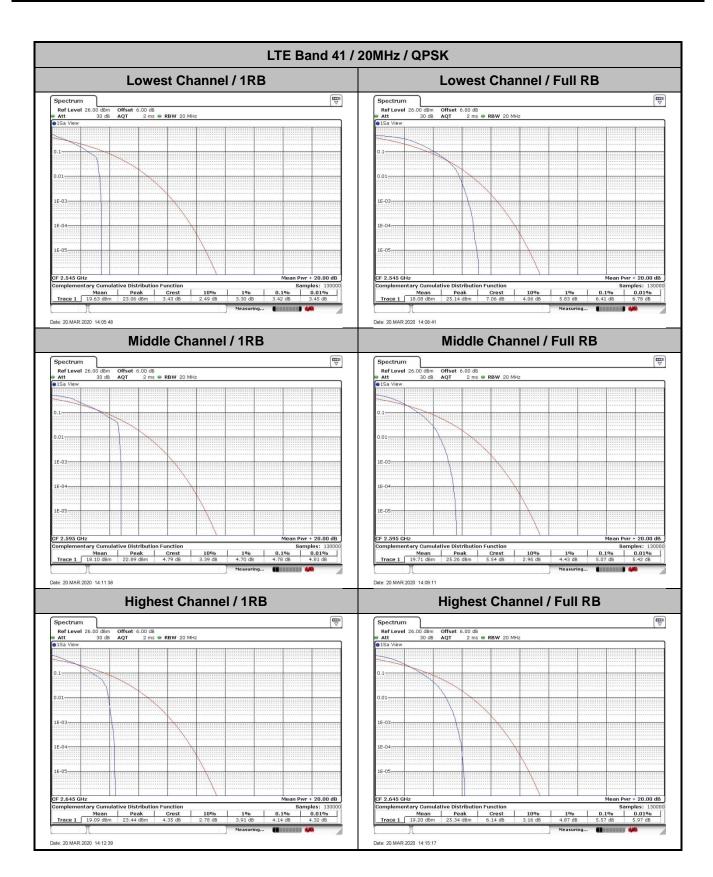
	LTE Band 41 (G _T - L _C = 1.74dB) 64QAM										
Bandwidth		20M									
Channel	40140	40640	41140								
Channel	(Low)	(Mid)	(High)								
Frequency	2545	2595	2645								
(MHz)	2545	2595	2040								
Conducted Power (dBm)	20.99	20.86	20.88								
Conducted Power (Watts)	0.1256	0.1219	0.1225								
EIRP(dBm)	22.73	22.60	22.62								
EIRP(Watts)	0.1875	0.1820	0.1828								

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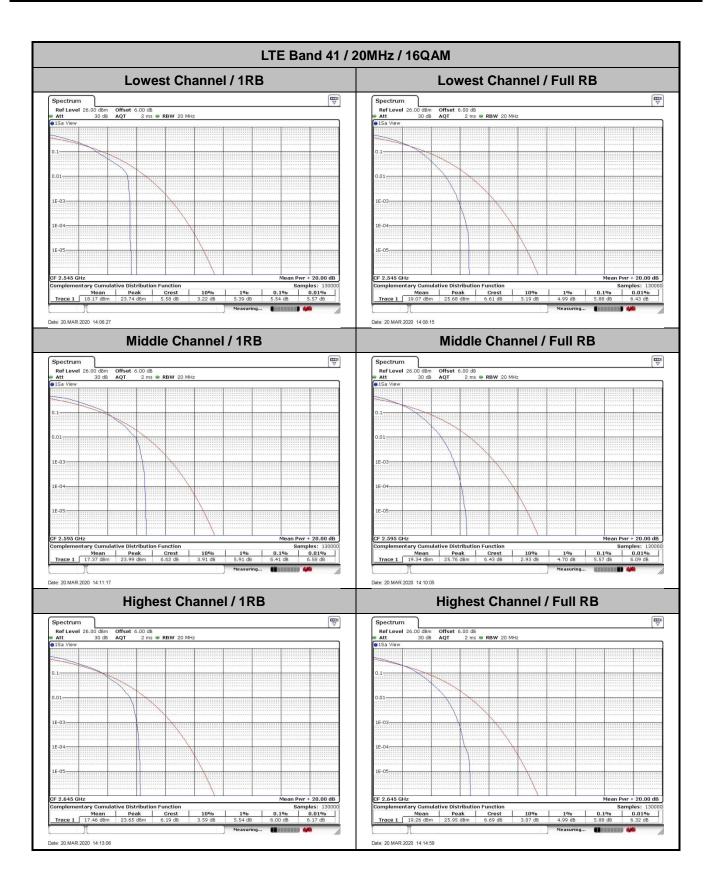
Peak-to-Average Ratio

Mode		LTE Band 41 / 20MHz					
Mod.	QP	rsk	160	AM	Limit: 13dB		
RB Size	1RB	Full RB	1RB	Full RB	Result		
Lowest CH	3.42	6.41	5.54	5.88			
Middle CH	4.78	5.07	6.41	5.57	PASS		
Highest CH	4.14	5.57	6.00	5.88			
Mod.	64C	QAM	Limit: 13dB				
RB Size	1RB	Full RB	Result				
Lowest CH	5.19	5.54					
Middle CH	5.10	5.57	PASS				
Highest CH	5.22	6.75					

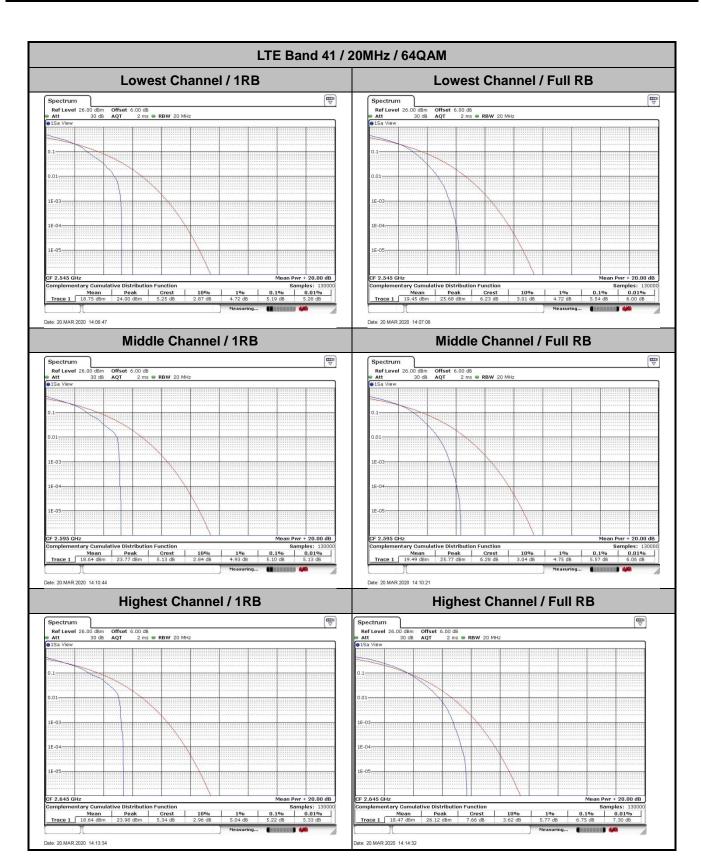
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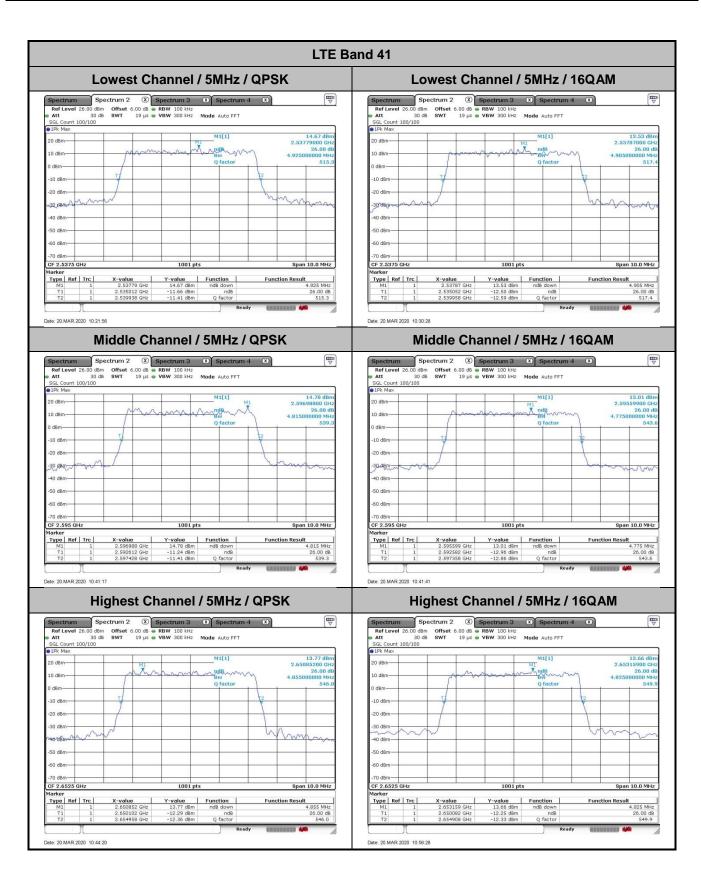
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26dB Bandwidth

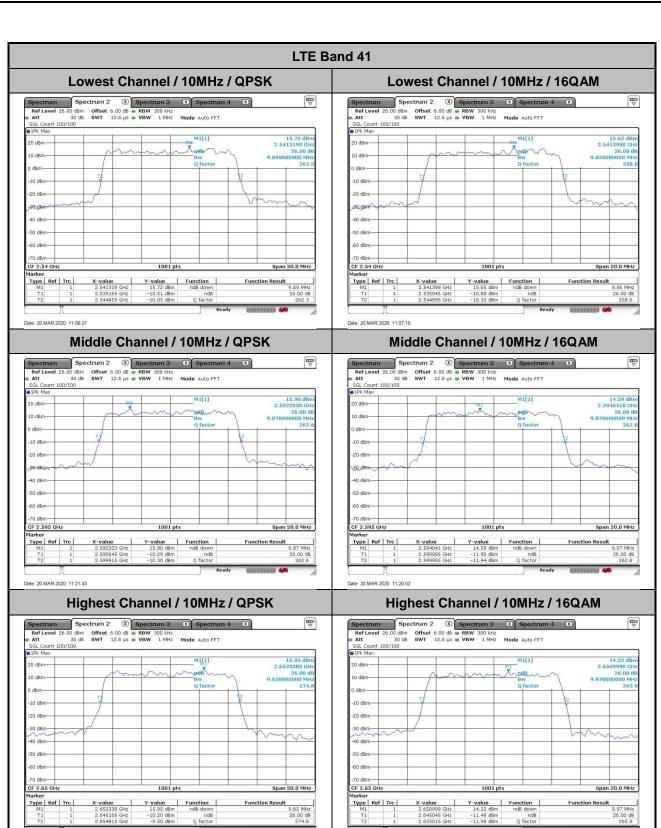
Mode	LTE Band 41											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.925	4.905	9.69	9.85	14.595	14.206	20.1	20.14	4.825	9.77	14.535	20.06
Middle CH	4.815	4.775	9.87	9.87	14.296	14.745	20.3	20.3	4.805	9.71	14.446	20.1
Highest CH	4.855	4.825	9.65	9.97	14.416	14.206	20.06	20.1	4.915	9.65	14.356	20.18

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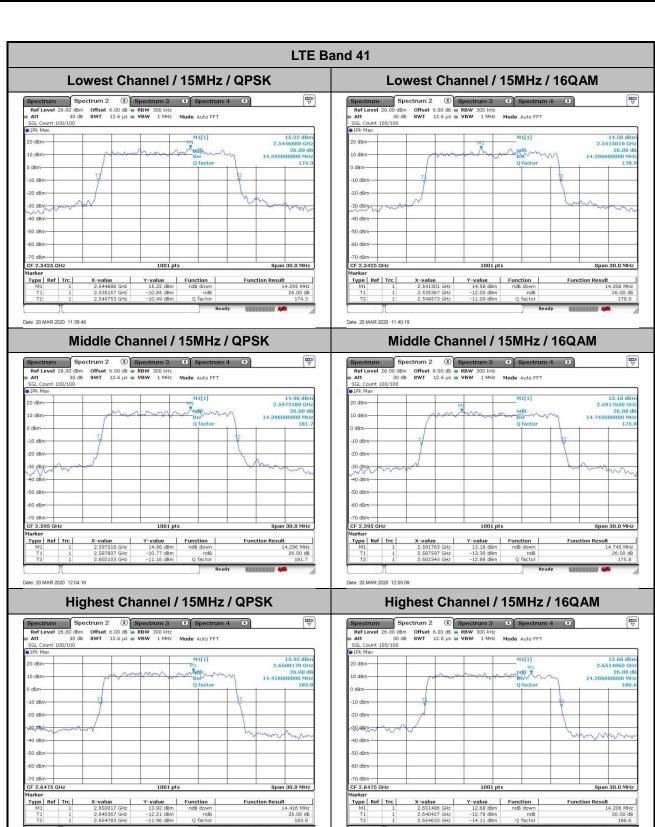
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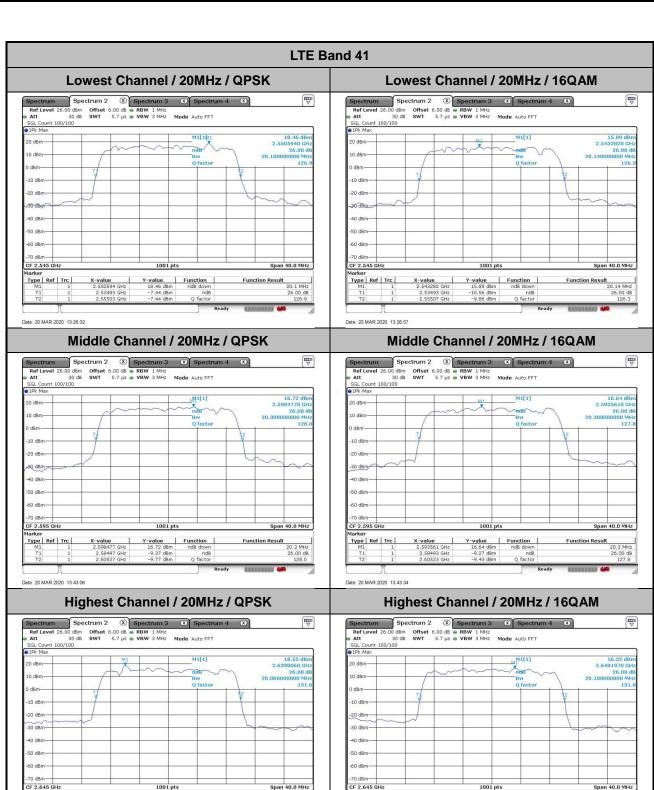
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 X-value
 Y-value
 Function

 2.639006 GHz
 18.55 dBm
 nd8 down

 2.63497 GHz
 -7.25 dBm
 nd8

 2.65503 GHz
 -8.03 dBm
 Q factor

Function Result 20.06 MHz

Type Ref Trc

X-value 2.648197 GHz 2.63497 GHz 2.65507 GHz

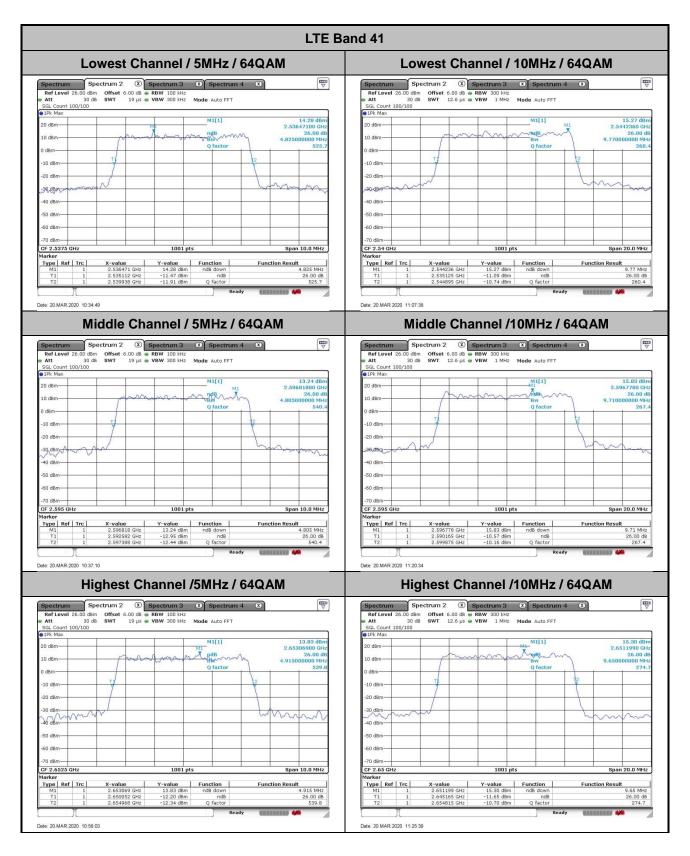
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Type | Ref | Trc |

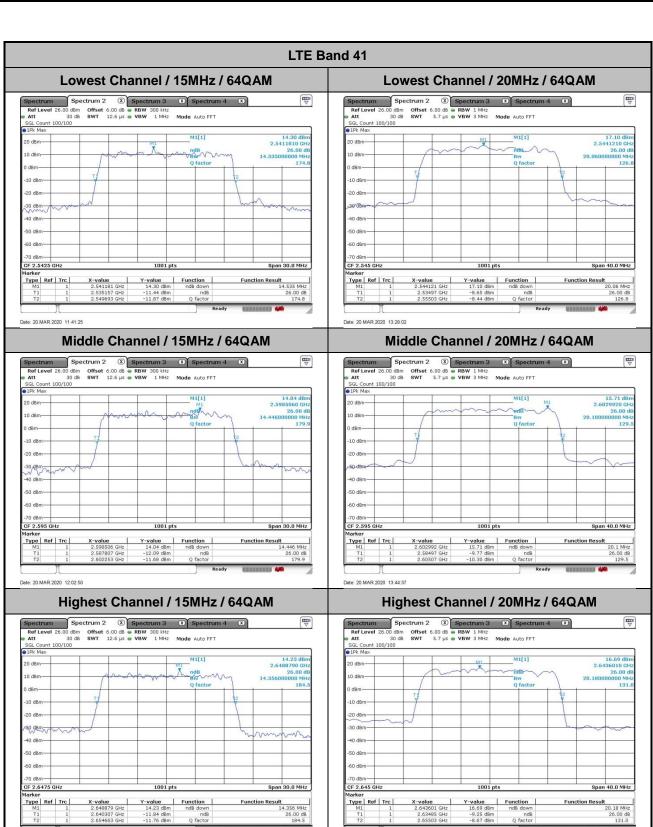
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Function Result

Y-value Function z 16.32 dBm ndB down



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Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.48	4.49	8.99	9.05	13.40	13.43	18.34	18.26	4.50	8.99	13.40	18.26
Middle CH	4.48	4.50	9.09	9.05	13.40	13.40	18.46	18.18	4.50	8.99	13.40	18.38
Highest CH	4.49	4.50	8.99	8.99	13.40	13.46	18.10	18.30	4.51	8.99	13.40	18.34

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LTE Band 41 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM Spectrum 2 Spectrum 3 Spectrum 4 S Spectrum 2 Spectrum 3 Spectrum 4 X 7 Ref Level 26.00 dBm Offset 6.00 dB ● RBW 100 kHz
Att 30 dB SWT 19 µs ● VBW 300 kHz Mode Auto FFT
SGL Count 100/100 M1[1] 14.81 dB M1[1] 13.44 dBn 2.53591200 GF 4.475524476 MF OCC BW A --- PCC BHY dBm--20 dBm--20 dBmso dela MAN 30 dBm 40 dBm 40 dBm 60 dBm
 X-value
 Y-value
 Function

 2.535912 GHz
 14.81 dBm

 X-value
 Y-value
 Function

 2.536231 GHz
 13.44 dBm
 2.535272 GHz

 2.5352722 GHz
 7.28 dBm
 Occ Bw

 2.5397577 GHz
 7.97 dBm
 Type | Ref | Trc | Type Ref Trc Date: 20.MAR.2020 10:21:02 Date: 20.MAR 2020 10:30:08 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM **□** Spectrum 2 X Spectrum 3 X Spectrum 4 X Ref Level 26.00 dBm Offset 6.00 dB @ RBW 100 kHz Att 30 dB SWT 19 µs @ VBW 300 kHz Mode Auto FFT SGL Count 100/100 15.45 dBi 2.59320200 GF 4.475524476 MF 20 dBm-20 dBm-10 dBmdBm--10 dBm-20 dBm man AD DED 30 dBm--50 dBm -50 dBm-CF 2.595 GHz 1001 pts Span 10.0 MHz CF 2.595 GHz 1001 pts Span 10.0 MHz | Y-value | Function |
| 15.45 dBm | |
| 7.64 dBm | | Occ Bw |
| 9.02 dBm | Type Ref Trc Function Result Type Ref Trc Function Function Result 4.475524476 MHz 4.495504496 MHz Date: 20.MAR 2020 10:41:01 Date: 20 MAR 2020 10:42:00 Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM Spectrum 2 Spectrum 3 Spectrum 4 S Spectrum 2 Spectrum 3 Spectrum 4 X SGL Count 100/100 91Pk Max SGL Count 100/100 e1Pk Max 20 dBm-20 dBm-4.485514486 MH 10 dBm-10 dBm--10 dBm--10 dBm-40 dBm ~~ 40 0Bm-50 dBm 50 dBm -60 dBm--60 dBm-CF 2.6525 GHz Span 10.0 MHz CF 2.6525 GHz 1001 pts Span 10.0 MHz 1001 pts

4.485514486 MHz

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Type | Ref | Trc |

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Function Result

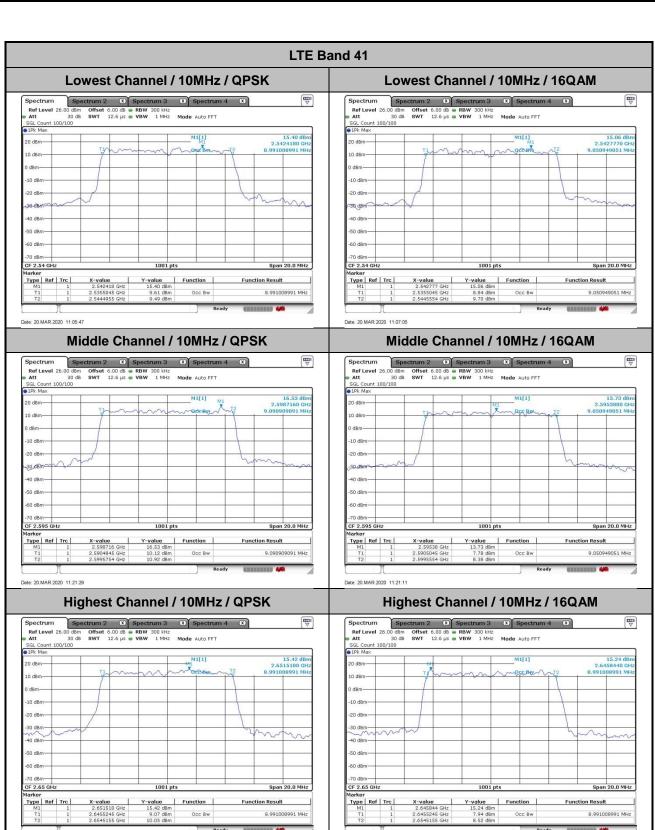
4.495504496 MHz

 Marker
 Y-value
 Function

 M1
 1
 2.651311 GHz
 13.67 dBm

 T1
 1
 2.65222 GHz
 8.59 dBm
 Occ 8w

 T2
 1
 2.6547478 GHz
 7.15 dBm
 Occ 8w



8.991008991 MHz

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8.991008991 MHz

LTE Band 41 Lowest Channel / 15MHz / QPSK Lowest Channel / 15MHz / 16QAM **₩** Spectrum 2 Spectrum 3 Spectrum 4 S Spectrum 2 Spectrum 3 Spectrum 4 X 7 | Spectrum 14.28 dBi 2.5450770 GH M1[1] 12.45 dBn 2.5481640 GH 13.426573427 MH non 10 dBm dBm--20 dBm--20 dBm-Ans 30 dBm-60 dBm
 X-value
 Y-value
 Function

 2.548164 GHz
 12.45 dBm
 2.5857867 GHz
 8.18 dBm
 Occ Bw

 2.5492133 GHz
 6.86 dBm
 Occ Bw
 Occ Bw
 Occ Bw
 Type | Ref | Trc | Date: 20.MAR 2020 11:39:13 Middle Channel / 15MHz / QPSK Middle Channel / 15MHz / 16QAM **□** Spectrum 2 X Spectrum 3 X Spectrum 4 X Spectrum 2 X Spectrum 3 X Spectrum 4 X Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs WBW 1 MHz Mode Auto FFT
SGL Count 100/100 20 dBm-20 dBm-OCE BW 10 dBmdBm--10 dBm 20 dBm -20 dBm -50 dBm--50 dBm-CF 2.595 GHz 1001 pts Span 30.0 MHz CF 2.595 GHz 1001 pts Span 30.0 MHz Type Ref Trc Y-value Function Function Result Type Ref Trc Function Function Result Occ Bw 13.396603397 MHz 13.396603397 MHz Date: 20.MAR 2020 12:03:59 Date: 20 MAR 2020 12:03:33 Highest Channel / 15MHz / QPSK Highest Channel / 15MHz / 16QAM Spectrum 2 Spectrum 3 Spectrum 4 S SGL Count 100/100 91Pk Max 20 dBm-20 dBm 13.396603397 MH 13.456543457 MH 10 dBm-10 dBm -10 dBm -10 dBm 30.dBm--30 dBmmommen m 50 dBm -60 dBm--60 dBm

1001 pts

| Span |

Span 30.0 MHz

13.396603397 MHz

CF 2.6475 GHz

Type | Ref | Trc | X-value | 2.649508 GHz

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CF 2.6475 GHz

Type | Ref | Trc |

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Span 30.0 MHz

13.456543457 MHz

Function Result

1001 pts

Y-value Function

Occ Bw

LTE Band 41 Lowest Channel / 20MHz / QPSK Lowest Channel / 20MHz / 16QAM Spectrum 2 Spectrum 3 Spectrum 4 S Spectrum 2 Spectrum 3 Spectrum 4 X 7 | Spectrum 17.21 dB 16.57 dBn 2.5428820 GH 18.341658342 MH dBm--20 dBm -20 dBm-40 dBm 40 dBm 60 dBm
 X-value
 Y-value
 Function

 2.542882 GHz
 17.21 dBm

 X-value
 Y-value
 Function

 2.550514 GHz
 16.57 dBm
 2.558916 GHz
 8.89 dBm
 Occ Bw

 2.5541508 GHz
 8.66 dBm
 0cc Bw
 0cc Bw
 0cc Bw
 0cc Bw
 Type | Ref | Trc | Date: 20.MAR.2020 13:26:00 Middle Channel / 20MHz / QPSK Middle Channel / 20MHz / 16QAM **□** Spectrum 2 X Spectrum 3 X Spectrum 4 X Spectrum 2 X Spectrum 3 X Spectrum 4 X
 Ref Level
 26.00 dBm
 Offset
 6.00 dB
 RBW
 1 MHz

 Att
 30 dB
 SWT
 5.7 μs
 VBW
 3 MHz
 Mode
 Auto FFT
 20 dBm-20 dBm-10 dBmdBm--10 dBm 20 dBm -20 dBm -30 dBm 38 dBm--50 dBm--50 dBm-CF 2.595 GHz 1001 pts Span 40.0 MHz CF 2.595 GHz 1001 pts Span 40.0 MHz | Y-value | Function |
2	17.34 dBm	
2	10.47 dBm	Occ Bw
2	9.53 dBm	
 X-value
 Y-value
 Function

 2.599985 GHz
 16.35 dBm
 2.898981 GHz
 9.23 dBm
 Occ Bw

 2.6040709 GHz
 9.22 dBm
 Occ Bw
 Type Ref Trc Function Result Type Ref Trc Function Result 18.461538462 MHz 18.181818182 MHz Date: 20.MAR 2020 13:42:47 Date: 20 MAR 2020 13:43:55 Highest Channel / 20MHz / QPSK Highest Channel / 20MHz / 16QAM | Spectrum | Spectrum 2 | 3 | Spectrum 3 | 2 | Spectrum 4 | 2 | 3 | Spectrum 4 | 3 | Spectrum 4 | 3 | Spectrum 5 | Spectrum 5 | Spectrum 6 | Spectrum 6 | Spectrum 7 | Spectrum 7 | Spectrum 8 | Spectrum 8 | Spectrum 8 | Spectrum 9 | Spectru SGL Count 100/100 1Pk Max 20 dBm-20 dBm-18.101898102 MH 18.301698302 MH 10 dBm-10 dBm--10 dBm--10 dBm--30 dBr -30 dBm-50 dBm -60 dBm--60 dBm CF 2.645 GHz Span 40.0 MHz CF 2.645 GHz 1001 pts Span 40.0 MHz 1001 pts | X-volue | Y-volue | Function | Function Result |
2.644401 GHz	17.32 dBm	2.655906 GHz	9.65 dBm	Occ 8w	18.101896
2.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0cc 8w	18.101896		
3.6549079 GHz	10.52 dBm	0c Type	Ref	Trc	Function Result 18.101898102 MHz 18.301698302 MHz

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