



FCC Radio Test Report

FCC ID: KA2WR920VA1-1

This report concerns: Original Grant

Project No.	: 1901H008A
Equipment	: CPE

Test Model : DWR-920V

Series Model : N/A

Applicant : D-Link Corporation

: No.289, Xinhu 3rd Rd., Neihu District, Taipei 11494, Address

Taiwan

Date of Receipt : Mar. 19, 2019

: Mar. 19, 2019~Apr. 18, 2019 Date of Test

Issued Date : May. 05, 2019 Tested by : BTL Inc.

Testing Engineer

Technical Manager

Authorized Signatory

(James Chiu)

BTL INC

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Certificate # 5123.03

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Declaration

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BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	May. 05, 2019

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1. GENERAL SUMMARY

Equipment : CPE Brand Name: D-Link Test Model : DWR-920V

Series Model: N/A

Applicant : D-Link Corporation Manufacturer: D-Link Corporation

Address : No.289, Xinhu 3rd Rd., Neihu District, Taipei 11494, Taiwan

Date of Test: Mar. 19, 2019~Apr. 18, 2019

Test Sample: Engineering Sample No.: B190301797

Standard(s): 47 CFR FCC Part 24 Subpart E

47 CFR FCC Part 2 ANSI/TIA/EIA-603-E-2016

KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1901H008A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the WCDMA Band II and LTE Band 2 part.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E& Part 2				
Standard(s) Section	Test Item	Judgment		
2.1046 & 24.232(c)	Radiated power	PASS		
2.1046 & 24.232(c)	Maximum Output Power	PASS		
2.1049 & 24.238(a)	Occupied Bandwidth	PASS		
2.1051 & 24.238(a)	Conducted Spurious Emissions	PASS		
2.1053 & 24.238(a)	Radiated Spurious Emissions	PASS		
24.238(a)	Band Edge Measurements	PASS		
24.232(d)	Peak To Average Ratio	PASS		
2.1055 & 24.235	Frequency Stability	PASS		

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Test Firm Registration Number for FCC: 476765

BTL's Designation Number for FCC: CN1241

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range		U,(dB)
SH-CB01 CISPR	9KHz ~ 30MHz	V	3.79	
		9KHz ~ 30MHz		3.57
	CISPR	30MHz ~ 200MHz	V	4.12
		30MHz ~ 200MHz	Н	3.20
		200MHz ~ 1,000MHz		3.12
		200MHz ~ 1,000MHz	Н	3.18

Test Site	Method	Measurement Frequency Range	U,(dB)
SH-CB01 CISPR	1GHz ~ 6GHz	4.40	
	CISPR	6GHz ~ 18GHz	
		18GHz ~ 26.5GHz	3.64
			26.5GHz ~ 40GHz

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	CPE			
Brand Name	D-Link			
Test Model	DWR-920V			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	A1			
Software Version	01.01			
Antenna Type	External Antenna			
Antonna Cain	WCDMA Band II	-4 dBi		
Antenna Gain	LTE Band 2	4.10035 dBi		
IMEI No.	357471055275665			
	WCDMA		UL: BPSK	
Modulation Type		ICLIDA)	DL: QPSK 16QAM	
Wodulation Type	WCDMA(HSDPA/H	ISUPA)	UL: QPSK,16QAM	
	LTE		DL: QPSK,16QAM	
	WCDMA Band II		1852.4MHz ~ 1907.6MHz	
	LTE 2 (Channel Ba	ndwidth: 1.4MHz)	1850.7 ~ 1909.3 MHz	
	LTE 2 (Channel Ba	ndwidth: 3MHz)	1851.5 ~ 1908.5 MHz	
Operation Frequency	LTE 2 (Channel Ba	ndwidth: 5MHz)	1852.5 ~ 1907.5 MHz	
	LTE 2 (Channel Ba	ndwidth: 10MHz)	1855.0 ~ 1905.0 MHz	
	LTE 2 (Channel Ba	ndwidth: 15MHz)	1857.5 ~ 1902.5 MHz	
	LTE 2 (Channel Ba	ndwidth: 20MHz)	1860.0 ~ 1900.0 MHz	

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	WCDMA	BPSK	18.10	dBm		
	WCDMA_HSDPA	16QAM	16.89	dBm		
	WCDMA_HSUPA	16QAM	16.95	dBm		
	LTE 2 (Channel Bandwidth: 1 (MUZ)	QPSK	26.12	dBm		
	LTE 2 (Channel Bandwidth: 1.4MHz)	16QAM	25.53	dBm		
	LTE 2 (Channel Bandwidth, 2MLIE)	QPSK	26.28	dBm		
	LTE 2 (Channel Bandwidth: 3MHz)	16QAM	25.25	dBm		
Max. EIRP Power	LTE 2 (Channel Bandwidth, EMILE)	QPSK	26.22	dBm		
	LTE 2 (Channel Bandwidth: 5MHz)	16QAM	25.13	dBm		
	LTE 2 (Channel Bandwidth: 10MHz)	QPSK	26.64	dBm		
		16QAM	25.57	dBm		
	175 0 (0) 15 1 1 1 1 1 1 1 1	QPSK	26.53	dBm		
	LTE 2 (Channel Bandwidth: 15MHz)	16QAM	25.60	dBm		
	LTE 2 (Charast Bandwidth, 20ML)	QPSK	26.11	dBm		
	LTE 2 (Channel Bandwidth: 20MHz)	16QAM	25.35	dBm		
Power Source	DC voltage supplied from AC/DC adapter.					
1 OWEI OULIGE	Model: AMS135-1201000FU					
Power Rating	I/P:100-240V~, 50/60Hz, 0.5A O/P:12V 1.0A					

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2.WCDMA (UL:BPSK; DL: QPSK) mode was found to be the worst case and recorded.

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3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Following channel(s) was (were) selected for the final test as listed below:

WCDMA MODE						
Test Item	Available Channel	Tested Channel	Mode			
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA, HSDPA,HSUPA			
Maximum Output Power	9262 to 9538	9262, 9400, 9538	WCDMA, HSDPA,HSUPA			
Conducted Emission	9262 to 9538	9400	WCDMA			
Radiated Emission	9262 to 9538	9400	WCDMA			
Band Edge	9262 to 9538	9262, 9538	WCDMA			
Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA			
Frequency Stability	9262 to 9538	9400	WCDMA			

LTE BAND 2 MODE						
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode	
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB	
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	1RB/8RB/15RB	
EIRP	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
LIKE	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB/36RB/75RB	
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6RB	
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	15RB	
Occupied	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25RB	
Bandwidth	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	50RB	
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	75 RB	
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	100RB	
Conducted	18607 to 19193	18900	1.4 MHz	QPSK	1RB	
Emission	18625 to 19175	18900	5MHz	QPSK	1RB	
LIIII33IOII	18700 to 19100	18900	20MHz	QPSK	1RB	
Radiated	18607 to 19193	18900	1.4 MHz	QPSK	1RB	
Emission	18625 to 19175	18900	5MHz	QPSK	1RB	
	18700 to 19100	18900	20MHz	QPSK	1RB	

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	1		1		
	18607 to 19193	18607	1.4MHz	QPSK	1RB/6RB
		19193	1.4MHz	QPSK	
	18615 to 19185	18615	3MHz	QPSK	1RB/15RB
	10013 10 19103	19185	3MHz	QPSK	טאוט/ וטווט
	18625 to 19175	18625	5MHz	QPSK	1RB/25RB
Band Edge	10023 10 19173	19175	5MHz	QPSK	IND/20ND
	10050 to 10150	18650	10MHz	QPSK	4DD/50DD
	18650 to 19150	19150	10MHz	QPSK	1RB/50RB
	10075 to 10105	18675	15MHz	QPSK	4DD/75DD
	18675 to 19125	19125	15MHz	QPSK	1RB/75RB
	10700 to 10100	18700	20MHz	QPSK	4DD/400DD
	18700 to 19100	19100	20MHz	QPSK	1RB/100RB
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	1RB
Peak To	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB
Average Ratio	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB
	18607 to 19193	18900	1.4MHz	QPSK	1RB
	18615 to 19185	18900	3MHz	QPSK	1RB
Frequency	18625 to 19175	18900	5MHz	QPSK	1RB
Stability	18650 to 19150	18900	10MHz	QPSK	1RB
	18675 to 19125	18900	15MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB

3.3 EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Test Voltage	
EIRP	21°C, 54%RH	DC 12.0V	
Maximum Output Power	21°C, 54%RH	DC 12.0V	
Occupied Bandwidth	21°C, 54%RH	DC 12.0V	
Conducted Emission	21°C, 54%RH	DC 12.0V	
Radiated Emission	18.4°C, 53%RH	AC 120V/60Hz	
Band Edge	21°C, 54%RH	DC 12.0V	
Peak to Average Ratio	21°C, 54%RH	DC 12.0V	
Frequency Stability	Normal and Extreme	Normal and Extreme	

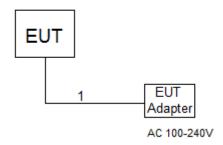
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3.3 BLOCKDIGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED FOR RADIATED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Ī	Item	Shielded Type	Ferrite Core	Length	Note
	1	NO	NO	1.2m	DC Cable

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4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 TEST PROCEDURE

EIRP:

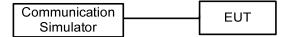
EIRP= Output Power +Antenan gain

Maximum Output Power:

The EUT was set up for the maximum power with WCDMA modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TESTSETUP LAYOUT

Output Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

Please refer to the Appendix A.

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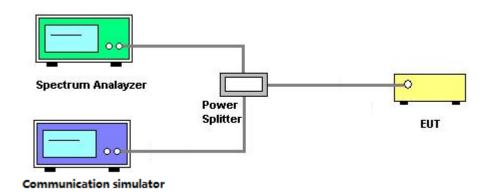


4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.41 TEST RESULTS

Please refer to the Appendix B.

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4.3 CONDUCTED EMISSIONS MEASUREMENT

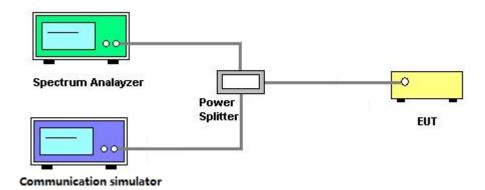
4.3.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 v03r01 Section 6.0.
- 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. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Set spectrum analyzer with RMS detector.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. 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

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.52 TEST RESULTS

Please refer to the Appendix C.

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4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

4.4.2 TEST PROCEDURES

- 1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- 3. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- 4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P. power = E.I.P.R power - 2.15dBi.
- 5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

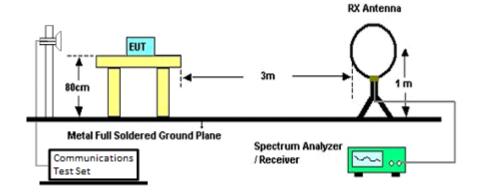
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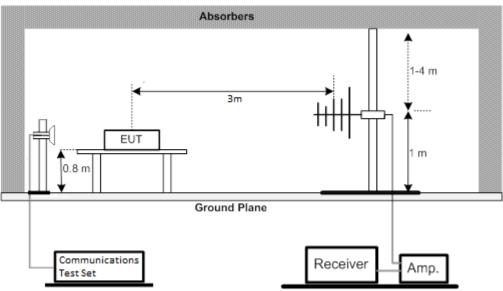


4.4.3 TESTSETUP LAYOUT

Below 30MHz



30MHz to 1GHz



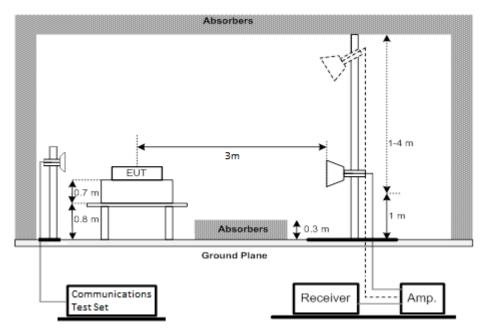
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Above 1GHz



4.4.4 TESTDEVIATION

No deviation

4.4.53 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix D.

4.4.64 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix E.

4.4.75 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix F.

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4.5 BAND EDGE MEASUREMENT

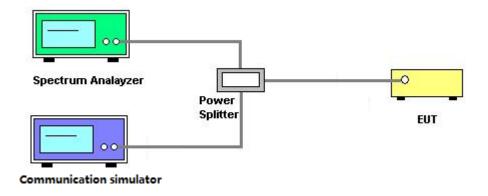
4.4.1 **LIMIT**

A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST PROCEDURES

- 1. All measurements were done at low and high operational frequency range.
- 2. The center frequency of spectrum is the band edge frequency and span is 10MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- 3. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 15kHz and VB of the spectrum is 43kHz (LTE Bandwidth 1.4MHz).
- 4. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 30kHz and VB of the spectrum is 91kHz (LTE Bandwidth 3MHz).
- 5. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 51kHz and VB of the spectrum is 150kHz (LTE Bandwidth 5MHz).
- 6. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 10MHz).
- 7. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Bandwidth 15MHz).
- 8. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 200kHz and VB of the spectrum is 620kHz (LTE Bandwidth 20MHz).
- 9. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.56 TEST RESULTS

Please refer to the Appendix G.

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4.6 PEAK TO AVERAGE RATIO MEASUREMENT

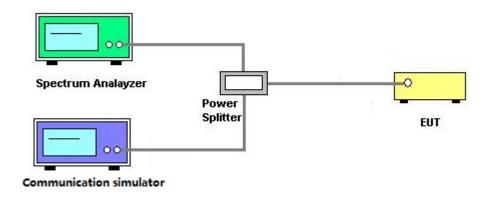
4.6.1 LIMIT

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.

4.6.2 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.57 TEST RESULTS

Please refer to the Appendix H.

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4.7 FREQUENCY STABILITY MEASUREMENT

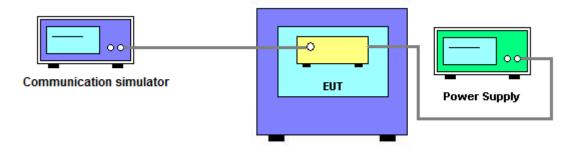
4.7.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

- 1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- 2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- 3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
- 4. The frequency error was recorded frequency error from the communication simulator.

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation

4.7.58 TEST RESULTS

Please refer to the Appendix I.

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5. LIST OF MEASUREMENT EQUIPMENTS

	Radiated Emission Measurement(9K-30M)							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 29, 2020			
2	EMI Test Receiver	R&S	ESCI	100082	Mar. 29, 2020			
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

For WCDMA

91 770	DI WEDNIA								
	Radiated Emission Measurement(30M-1G)								
Item	Kind of Equipment	f Equipment Manufacturer Type No. Serial No.		Calibrated until					
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168 719		Mar. 29, 2020				
2	2 Pre-Amplifier emci EMC9135 980400		980400	Mar. 29, 2020					
3	MXE EMI Receiver	XE EMI Receiver Keysight N9038A MY57150106		MY57150106	Mar. 29, 2020				
4	Test Cable	Test Cable emci EMC104-SM-SM-7000 170330		170330	Apr. 17, 2020				
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 17, 2020				
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 17, 2020				
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
8	8960 SERIES 10 WIRELESS COMMUNICATIONS TEST SET	Agilent	E5515C	GB45070942	Nov. 20, 2019				

	Radiated Emission Measurement(1G-18G)							
Item	Kind of Equipment	Equipment Manufacturer Type No. Serial No.		Calibrated until				
1	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 29, 2020			
2	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 29, 2020			
3	Pre-Amplifier	Pre-Amplifier emci EMC9135 980400		980400	Mar. 29, 2020			
4	Double Ridged Broadband Horn Antenna	Broadband Horn Schwarzbeck BBHA 9120D		9120D-1787	Mar. 29, 2020			
5	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren 3116C		00203919	Mar. 29, 2020			
6	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 29, 2020			
7	Cable	N/A	EMC102-SM-SM-6000	170336	Jun. 10, 2019			
8	8960 SERIES 10 WIRELESS COMMUNICATIONS TEST SET	Agilent	E5515C	GB45070942	Nov. 20, 2019			

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For LTE

	Radiated Emission Measurement(30M-1G)								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168 719		Mar. 29, 2020				
2	2 Pre-Amplifier emci EMC9135 980400		980400	Mar. 29, 2020					
3	MXE EMI Receiver	teiver Keysight N9038A MY57150106		Mar. 29, 2020					
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 17, 2020				
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 17, 2020				
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 17, 2020				
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
8	Wideband Radio Communication Test	R&S	CMW500 131463		Nov. 20, 2019				

	Radiated Emission Measurement(1G-18G)							
Item	Kind of Equipment	Manufacturer	Type No. Serial No.		Calibrated until			
1	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 29, 2020			
2	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 29, 2020			
3	Pre-Amplifier	Pre-Amplifier emci EMC9135 980		980400	Mar. 29, 2020			
4	Double Ridged Broadband Horn Antenna	padband Horn Schwarzbeck BBHA 9120D		9120D-1787	Mar. 29, 2020			
5	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 29, 2020			
6	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 29, 2020			
7	Cable	N/A	EMC102-SM-SM-6000	170336	Jun. 10, 2019			
8	Wideband Radio Communication Test	R&S	CMW500 131		Nov. 20, 2019			

For WCDMA

	Conducted Emission & Band Edge & Occupied Bandwidth Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	8960 SERIES 10 WIRELESS COMMUNICATIONS TEST SET	Agilent	E5515C	GB45070942	Nov. 20, 2019			
2	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020			
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020			
4	Power Divider	JUK	PD-2SF-2060	N/A	N/A			

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	Frequency Stability Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	8960 SERIES 10 WIRELESS COMMUNICATIONS TEST SET	Agilent	E5515C	GB45070942	Nov. 20, 2019			
2*	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020			
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020			
4	Power Divider	JUK	PD-2SF-2060	N/A	N/A			
5	Temperature And Humidity Box	Blue pand	BPHS-120B	170616454	Nov. 20, 2019			

For LTE

	Conducted Emission & Band Edge & Occupied Bandwidth Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020			
2	Power Divider	JUK	PD-4SF-2060	N/A	N/A			
3	Wideband Radio Communication Test	R&S	CMW500	131463	Nov. 20, 2019			
4	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020			

	Frequency Stability Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020			
2*	Power Divider	JUK	PD-4SF-2060	N/A	N/A			
3	Wideband Radio Communication Test	R&S	CMW500	131463	Nov. 20, 2019			
4	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020			
5	Temperature And Humidity Box	Blue pand	BPHS-120B	170616454	Nov. 20, 2019			

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

*All calibration period of equipment list is three year

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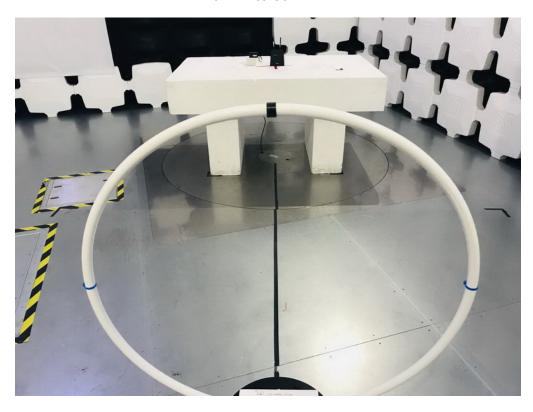
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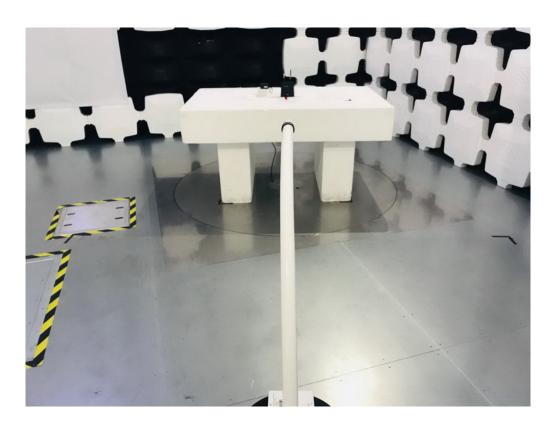




6. EUT TEST PHOTO



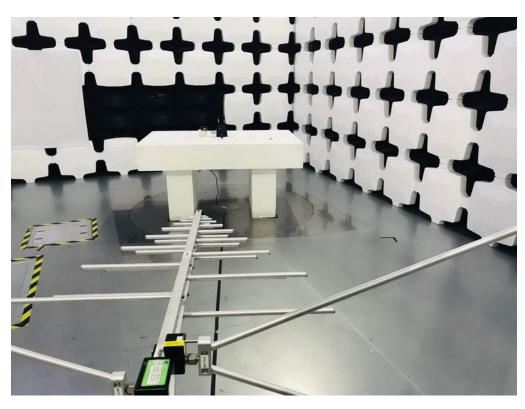


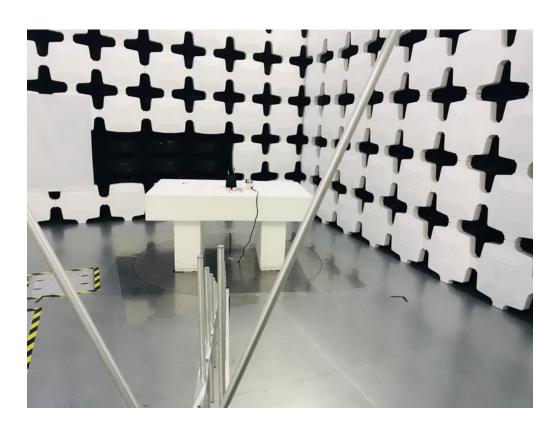






30 MHz to 1 GHz





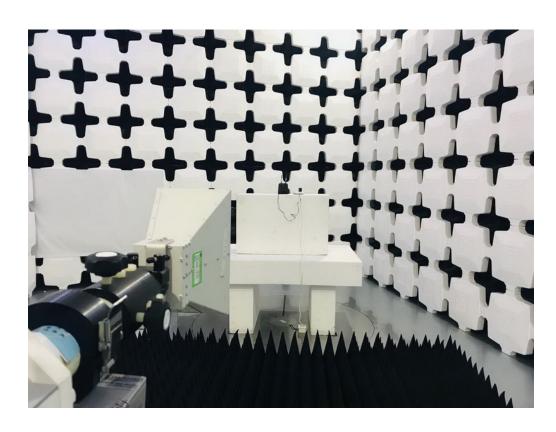
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Above 1 GHz









APPENDIX A - MAXIMUM OUTPUT POWER

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Maximum Output Power (dBm):

	Band		WCDMA Band II	
Modulation	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
	RMC 12.2K	22.10	21.97	21.75
BPSK	RMC 64K	21.96	21.84	21.67
Brok	RMC 144K	21.82	21.74	21.63
	RMC 384K	21.90	21.86	21.69
	HSDPA Subtest-1	20.79	20.67	20.66
16QAM	HSDPA Subtest-2	20.86	20.56	20.70
IOQAW	HSDPA Subtest-3	20.76	20.62	20.72
	HSDPA Subtest-4	20.89	20.58	20.74
	HSUPA Subtest-1	20.38	20.2	20.29
	HSUPA Subtest-2	20.91	20.78	20.79
16QAM	HSUPA Subtest-3	20.95	20.88	20.74
	HSUPA Subtest-4	20.75	20.83	20.71
	HSUPA Subtest-5	20.33	20.25	20.32

				Low CH	Mid CH	High CH
LTE Band /		RB	RB			High CH
BW	Modulation	Size	Offset	18607CH	18900CH	19193CH
DVV		Size	Oliset	1850.7MHz	1880MHz	1909.3MHz
		1	0	21.79	21.72	21.80
		1	2	21.98	21.67	21.61
		1	5	21.86	21.68	21.80
	QPSK	3	0	21.82	21.86	21.58
		3	1	21.94	22.00	21.62
		3	2	21.95	22.02	21.71
0/4/11		6	0	20.85	20.80	20.66
2 / 1.4M		1	0	20.92	21.11	20.79
		1	2	21.02	21.03	20.77
		1	5	20.94	21.01	20.74
	16QAM	3	0	21.26	20.84	21.06
		3	1	21.43	20.90	20.92
		3	2	21.23	20.93	20.91
		6	0	20.27	19.74	19.88

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LTE Band /		RB	RB	Low CH	Mid CH	High CH
BW	Modulation	Size	Offset	18615CH	18900CH	19185CH
DVV		Size	Oliset	1851.5MHz	1880MHz	1908.5MHz
		1	0	22.05	21.96	21.55
		1	7	22.18	21.96	21.66
		1	14	22.18	21.84	21.54
	QPSK	8	0	21.05	20.95	20.74
		8	4	21.06	20.97	20.73
		8	7	21.05	20.92	20.69
2 / 3M		15	0	21.00	20.92	20.73
2/31/1		1	0	21.09	20.92	20.83
		1	7	20.98	21.15	20.80
		1	14	20.95	20.79	20.70
	16QAM	8	0	20.05	20.00	20.06
		8	4	20.24	20.01	19.60
		8	7	20.23	19.96	19.54
		15	0	20.12	20.04	19.82

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LTE Dond /		DD	DD	Low CH	Mid CH	High CH
LTE Band /	Modulation	RB Size	RB Offset	18625CH	18900CH	19175CH
BW		Size	Oliset	1852.5MHz	1880MHz	1907.5MHz
		1	0	22.10	21.68	21.89
		1	13	22.11	21.83	21.82
		1	24	22.12	21.64	21.59
	QPSK	12	0	21.03	20.92	20.79
		12	6	21.03	21.03	20.69
		12	11	21.02	21.03	20.69
2 / 5M		25	0	20.98	21.01	20.72
2 / 3101		1	0	20.66	20.89	20.57
		1	13	20.48	21.03	20.23
		1	24	20.55	20.83	20.17
	16QAM [12	0	19.98	20.00	19.93
		12	6	20.02	20.05	19.77
		12	11	19.96	20.07	19.64
		25	0	20.30	20.09	19.74

LTE Band /		RB	RB	Low CH	Mid CH	High CH
	Modulation	Size	Offset	18650CH	18900CH	19150CH
BW		Size	Oliset	1855MHz	1880MHz	1905MHz
		1	0	22.29	21.85	21.81
		1	25	22.54	22.17	22.05
		1	49	21.99	21.99	21.96
	QPSK	25	0	21.16	21.01	20.81
		25	13	21.14	21.07	20.80
		25	25	21.02	20.93	20.75
2 / 10M		50	0	21.14	20.99	20.76
2 / TUIVI		1	0	21.07	20.67	20.71
		1	25	21.47	21.01	20.79
		1	49	20.80	20.74	20.84
	16QAM	25	0	20.04	20.17	20.06
		25	13	20.18	20.02	20.17
		25	25	20.01	20.11	19.91
		50	0	20.02	20.04	19.88

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LTE Band /		RB	RB	Low CH	Mid CH	High CH
BW	Modulation	Size	Offset	18675CH	18900CH	19125CH
DVV		Size	Oliset	1857.5MHz	1880MHz	1902.5MHz
		1	0	22.06	21.88	21.75
		1	38	22.43	22.12	22.00
		1	74	21.94	21.87	21.77
	QPSK	36	0	21.25	21.87	20.91
		36	18	21.13	21.08	20.85
		36	39	21.08	21.03	20.84
2 / 15M		75	0	21.07	20.96	20.74
2/15101		1	0	21.05	20.74	21.50
		1	38	21.16	20.96	21.47
		1	74	21.03	20.26	21.39
	16QAM [36	0	20.31	20.26	20.03
		36	18	20.11	20.25	19.90
		36	39	20.06	20.07	19.76
		75	0	20.16	20.01	19.91

LTE Band /		RB	RB	Low CH	Mid CH	High CH
BW	Modulation	Size	Offset	18700CH	18900CH	19100CH
DVV		SIZE	Oliset	1860MHz	1880MHz	1900MHz
		1	0	21.74	22.01	21.53
		1	50	21.97	21.06	21.98
		1	99	21.52	21.91	21.59
	QPSK	50	0	21.13	21.07	20.97
		50	25	21.09	21.15	20.96
		50	50	21.06	21.00	20.80
2 / 2014		100	0	21.09	21.02	20.85
2 / 20M		1	0	20.85	20.22	20.38
		1	50	21.25	20.06	20.69
		1	99	20.48	20.26	20.34
	16QAM	50	0	20.01	19.83	19.86
	-	50	25	20.28	19.92	19.93
		50	50	20.06	19.78	19.84
		100	0	20.09	19.98	19.86

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EIRP Power (dBm):

	Band		WCDMA Band II	
Modulation	Tx Channel	9262CH	9400CH	9538CH
	Frequency	1852.4MHz	1880MHz	1907.6MHz
	RMC 12.2K	18.10	17.97	17.75
BPSK	RMC 64K	17.96	17.84	17.67
DESK	RMC 144K	17.82	17.74	17.63
	RMC 384K	17.90	17.86	17.69
	HSDPA Subtest-1	16.79	16.67	16.66
16QAM	HSDPA Subtest-2	16.86	16.56	16.70
IOQAW	HSDPA Subtest-3	16.76	16.62	16.72
	HSDPA Subtest-4	16.89	16.58	16.74
	HSUPA Subtest-1	16.38	16.20	16.29
	HSUPA Subtest-2	16.91	16.78	16.79
16QAM	HSUPA Subtest-3	16.95	16.88	16.74
	HSUPA Subtest-4	16.75	16.83	16.71
	HSUPA Subtest-5	16.33	16.25	16.32

LTE Band /		DD	DD	Low CH	Mid CH	High CH
BW	Modulation	RB Size	RB Offset	18607CH	18900CH	19193CH
DVV		Size	Oliset	1850.7MHz	1880MHz	1909.3MHz
		1	0	25.89	25.82	25.90
		1	2	26.08	25.77	25.71
		1	5	25.97	25.78	25.90
	QPSK	3	0	25.92	25.96	25.68
		3	1	26.04	26.10	25.72
		3	2	26.05	26.12	25.81
2 / 1.4M		6	0	24.95	24.90	24.76
2 / 1.4101		1	0	25.02	25.21	24.89
		1	2	25.12	25.13	24.87
		1	5	25.04	25.11	24.84
	16QAM	3	0	25.36	24.94	25.16
		3	1	25.53	25.00	25.02
		3	2	25.33	25.03	25.01
		6	0	24.37	23.84	23.98

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LTE Band /		RB	RB	Low CH	Mid CH	High CH
	Modulation	Size	Offset	18615CH	18900CH	19185CH
BW		Size	Oliset	1851.5MHz	1880MHz	1908.5MHz
		1	0	26.15	26.06	25.65
		1	7	26.28	26.06	25.76
		1	14	26.28	25.94	25.64
	QPSK	8	0	25.15	25.05	24.84
		8	4	25.16	25.07	24.83
		8	7	25.15	25.02	24.79
2 / 3M		15	0	25.10	25.02	24.83
2/3101		1	0	25.19	25.02	24.93
		1	7	25.08	25.25	24.90
		1	14	25.05	24.89	24.80
	16QAM	8	0	24.15	24.10	24.16
		8	4	24.34	24.11	23.70
		8	7	24.33	24.06	23.64
		15	0	24.22	24.14	23.93

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LTE Dond /		DD	DD	Low CH	Mid CH	High CH
LTE Band / BW	Modulation	RB Size	RB Offset	18625CH	18900CH	19175CH
DVV		Size	Oliset	1852.5MHz	1880MHz	1907.5MHz
		1	0	26.20	25.78	25.99
		1	13	26.21	25.93	25.92
		1	24	26.22	25.74	25.69
	QPSK	12	0	25.13	25.02	24.89
		12	6	25.13	25.13	24.79
		12	11	25.12	25.13	24.79
2 / 5M		25	0	25.08	25.11	24.82
2 / 3101		1	0	24.76	24.99	24.67
		1	13	24.58	25.13	24.33
		1	24	24.65	24.93	24.27
	16QAM	12	0	24.08	24.10	24.03
		12	6	24.12	24.15	23.87
		12	11	24.06	24.17	23.74
		25	0	24.40	24.19	23.84

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10M	QPSK	1	0	26.39	25.95	25.91
		1	25	26.64	26.27	26.15
		1	49	26.09	26.09	26.07
		25	0	25.26	25.11	24.91
		25	13	25.24	25.17	24.90
		25	25	25.12	25.04	24.85
		50	0	25.24	25.09	24.86
	16QAM	1	0	25.17	24.77	24.81
		1	25	25.57	25.11	24.89
		1	49	24.90	24.84	24.94
		25	0	24.14	24.27	24.16
		25	13	24.28	24.12	24.27
		25	25	24.11	24.21	24.01
		50	0	24.12	24.14	23.99

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LTE Band /		RB RB		Low CH	Mid CH	High CH
BW	Modulation	Size	Offset	18675CH	18900CH	19125CH
DVV		SIZE	Oliset	1857.5MHz	1880MHz	1902.5MHz
		1	0	26.16	25.98	25.85
		1	38	26.53	26.22	26.10
		1	74	26.04	25.97	25.87
	QPSK	36	0	25.35	25.97	25.01
		36	18	25.23	25.18	24.95
		36	39	25.18	25.13	24.95
2 / 15M		75	0	25.17	25.06	24.84
2 / 15101		1	0	25.15	24.84	25.60
		1	38	25.26	25.06	25.57
		1	74	25.13	24.36	25.49
	16QAM	36	0	24.41	24.36	24.13
		36	18	24.21	24.35	24.00
		36	39	24.17	24.17	23.86
		75	0	24.26	24.11	24.01

LTE Band /		RB	RB	Low CH	Mid CH	High CH
BW	Modulation	Size	Offset	18700CH	18900CH	19100CH
		SIZE	Oliset	1860MHz	1880MHz	1900MHz
		1	0	25.84	26.11	25.63
		1	50	26.07	25.16	26.08
		1	99	25.62	26.01	25.69
	QPSK	50	0	25.23	25.17	25.07
		50	25	25.19	25.25	25.06
		50	50	25.16	25.10	24.90
2 / 20M		100	0	25.19	25.12	24.95
2 / 20IVI		1	0	24.95	24.32	24.48
		1	50	25.35	24.16	24.79
		1	99	24.58	24.36	24.44
	16QAM	50	0	24.11	23.93	23.96
		50	25	24.38	24.02	24.03
		50	50	24.16	23.88	23.94
		100	0	24.19	24.08	23.96

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APPENDIX B - OCCUPIED BANDWIDTH

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	WCDMA Band II				
		BPS	SK		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
9262	1852.4	4.1224	9262	1852.4	4.710
9400	1880	4.1333	9400	1880	4.716
9538	1907.6	4.1289	9538	1907.6	4.703



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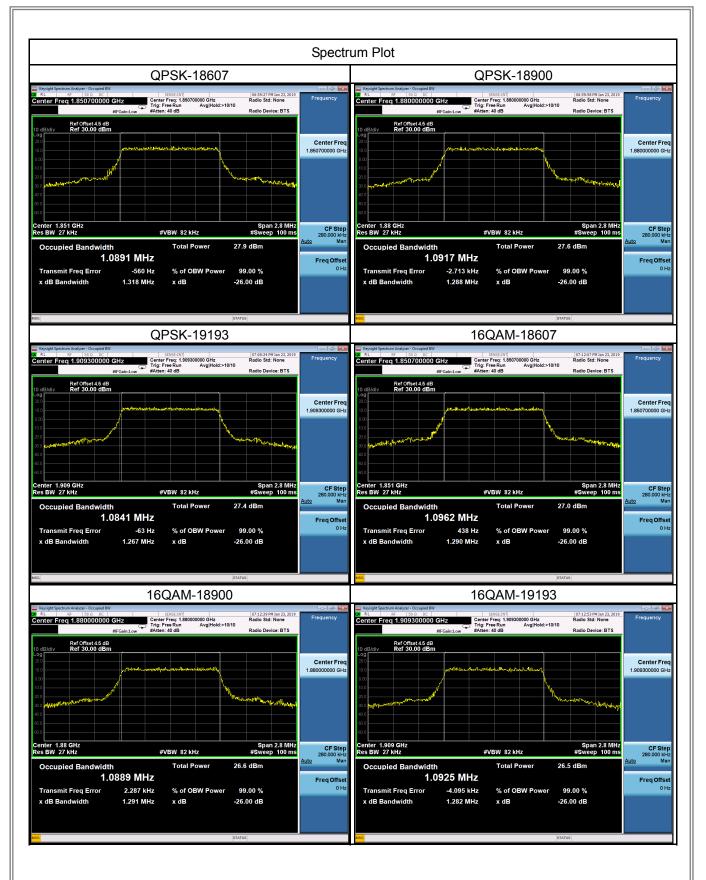


	LTE Band 2_1.4M				
	QPS	SK		16QA	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18607	1850.7	1.089	18607	1850.7	1.096
18900	1880	1.091	18900	1880	1.089
19193	1909.3	1.084	19193	1909.3	1.093
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18607	1850.7	1.318	18607	1850.7	1.290
18900	1880	1.288	18900	1880	1.291
19193	1909.3	1.267	19193	1909.3	1.267

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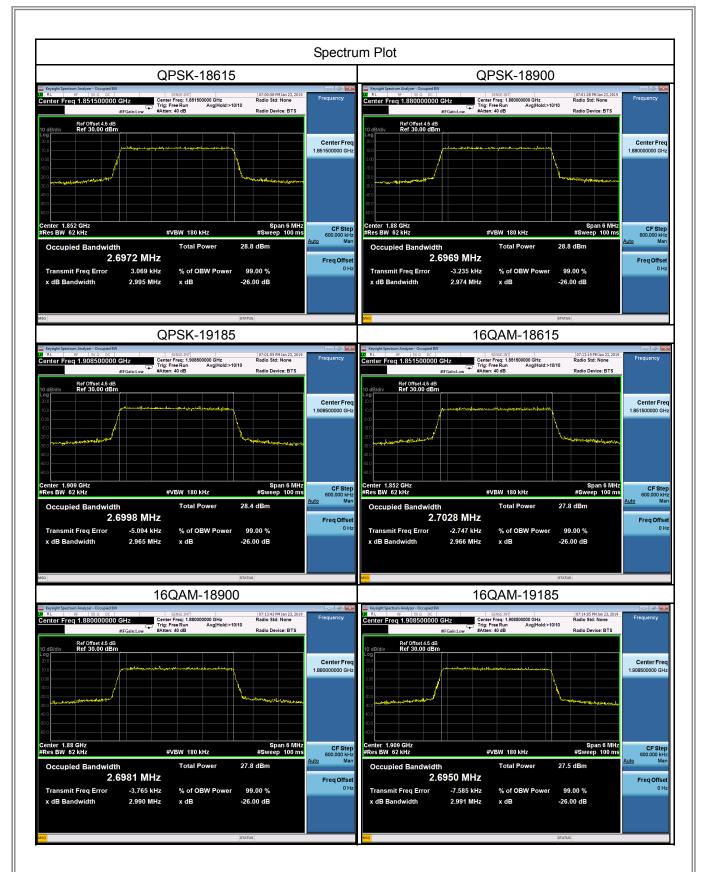


	LTE Band 2_3M				
	QPS	SK		16QA	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18615	1851.5	2.697	18615	1851.5	2.703
18900	1880	2.697	18900	1880	2.698
19185	1908.5	2.700	19185	1908.5	2.695
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18615	1851.5	2.995	18615	1851.5	2.966
18900	1880	2.974	18900	1880	2.990
19185	1908.5	2.965	19185	1908.5	2.991

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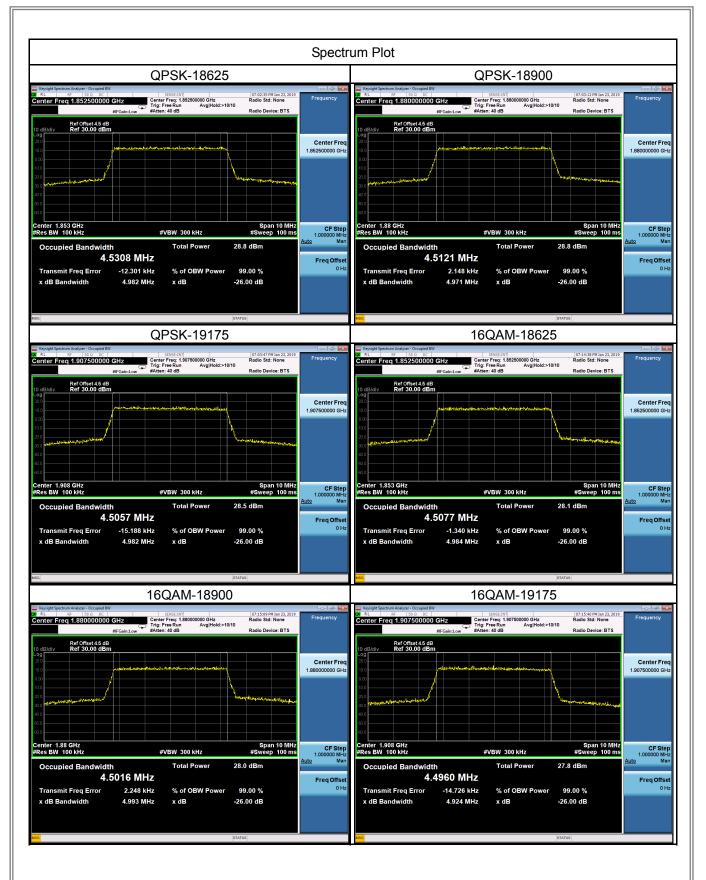


<u>r </u>					
	LTE Band 2_5M				
	QPS	SK		16QAI	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18625	1852.5	4.531	18625	1852.5	4.508
18900	1880	4.512	18900	1880	4.502
19175	1907.5	4.506	19175	1907.5	4.496
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18625	1852.5	4.982	18625	1852.5	4.984
18900	1880	4.971	18900	1880	4.993
19175	1907.5	4.982	19175	1907.5	4.924

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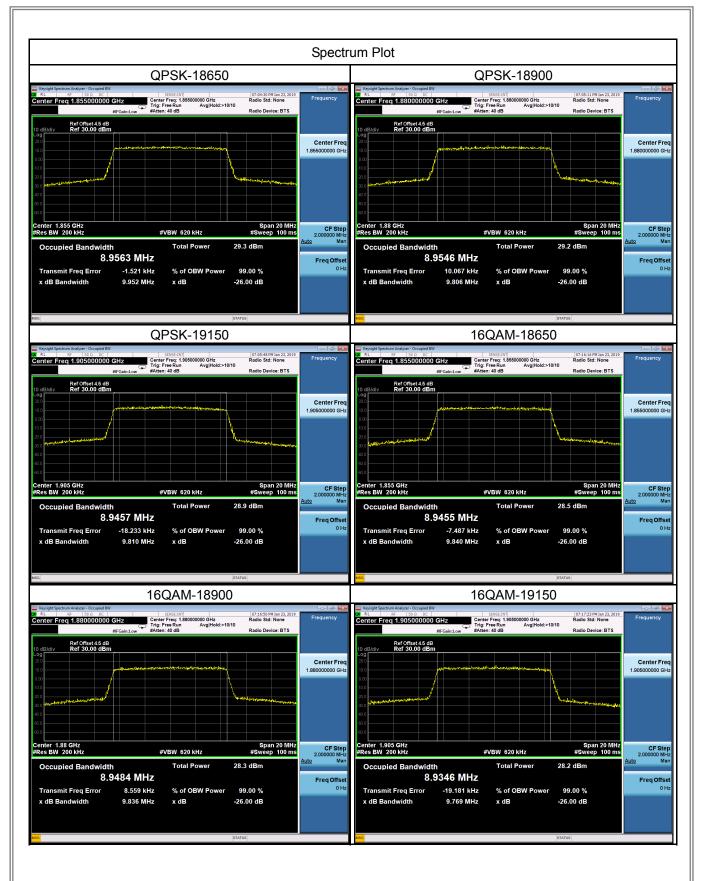


	LTE Band 2_10M				
	QPS	SK		16QAI	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18650	1855	8.956	18650	1855	8.946
18900	1880	8.955	18900	1880	8.948
19150	1905	8.946	19150	1905	8.935
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18650	1855	9.952	18650	1855	9.840
18900	1880	9.806	18900	1880	9.836
19150	1905	9.810	19150	1905	9.769

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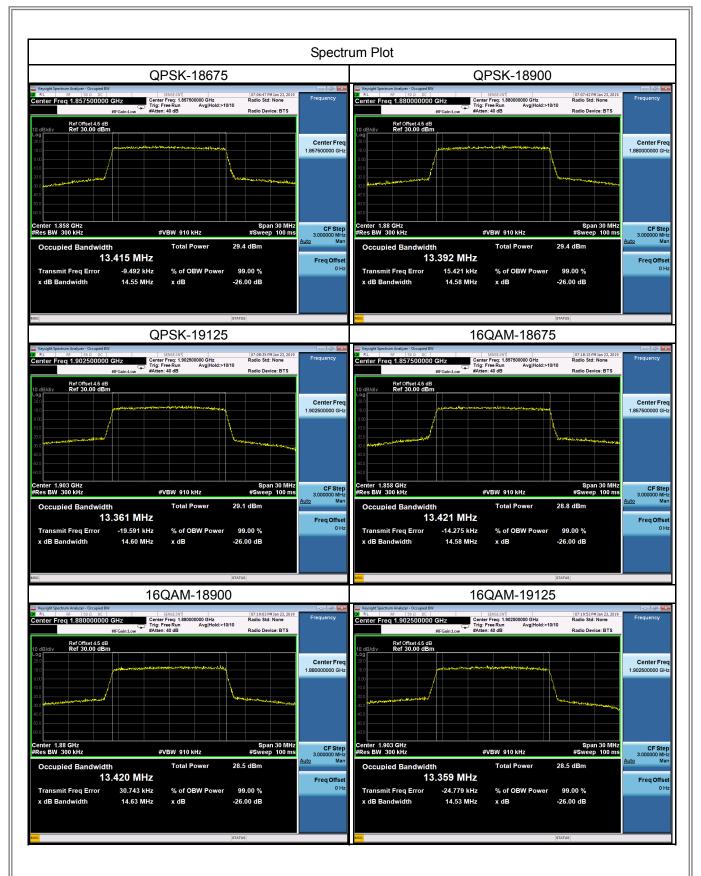


_					
LTE Band 2_15M					
	QPS	SK		16QA	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18675	1857.5	13.415	18675	1857.5	13.421
18900	1880	13.392	18900	1880	13.420
19125	1902.5	13.361	19125	1902.5	13.359
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18675	1857.5	14.550	18675	1857.5	14.580
18900	1880	14.580	18900	1880	14.630
19125	1902.5	14.600	19125	1902.5	14.530

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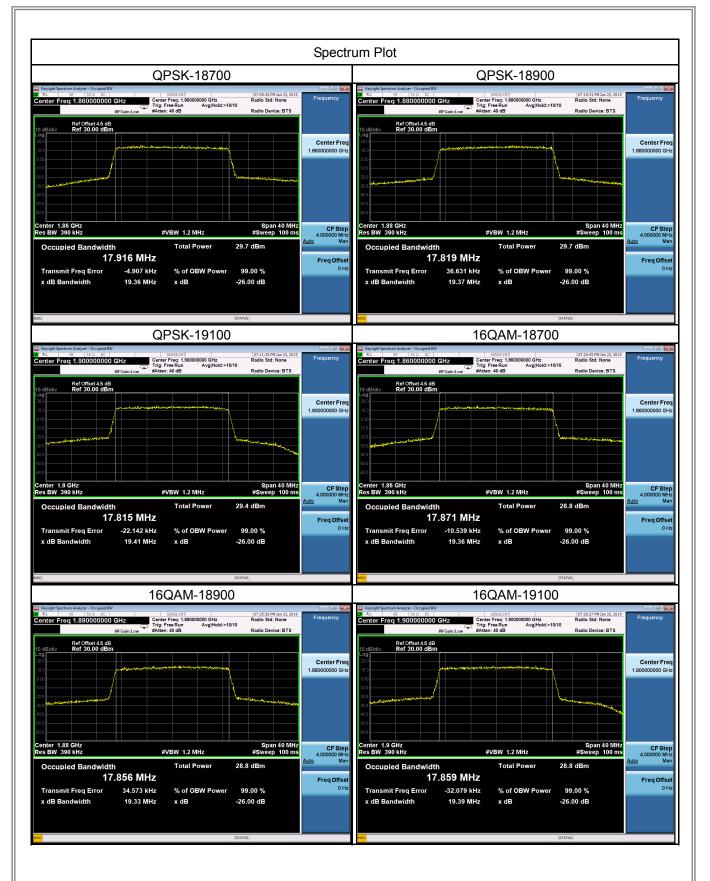


LTE Band 2_20M					
	QPS	SK		16QA	М
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
18700	1860	17.916	18700	1860	17.871
18900	1880	17.819	18900	1880	17.856
19100	1900	17.815	19100	1900	17.859
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
18700	1860	19.360	18700	1860	19.360
18900	1880	19.370	18900	1880	19.330
19100	1900	19.410	19100	1900	19.390

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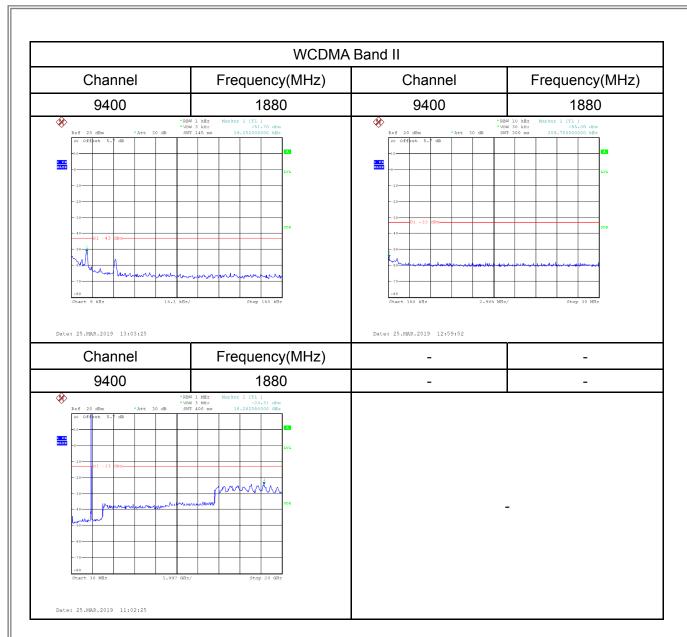


APPENDIX C - CONDUCTED EMISSIONS

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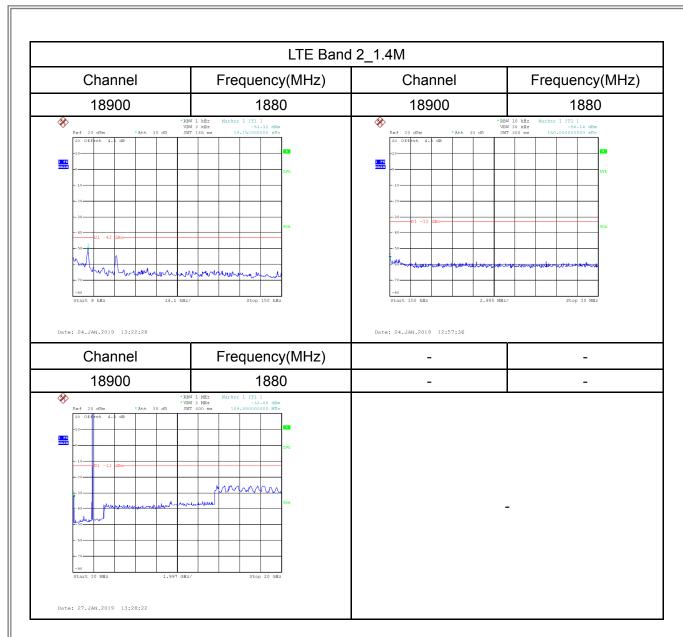






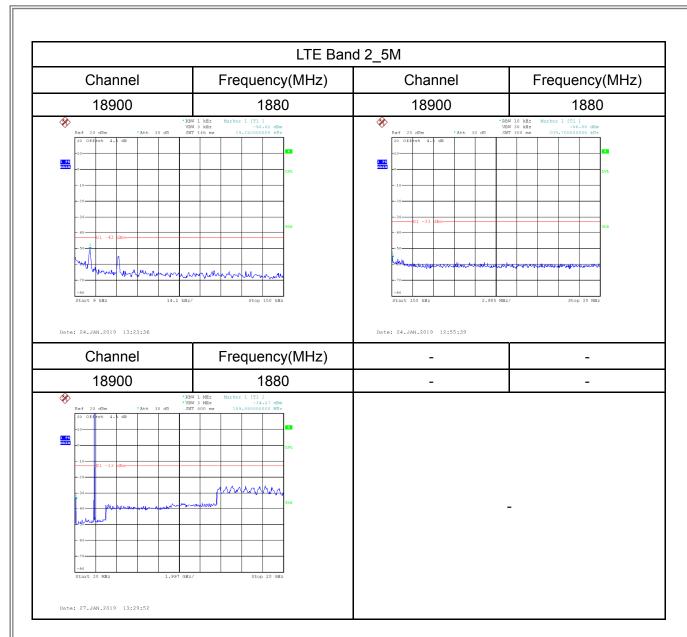






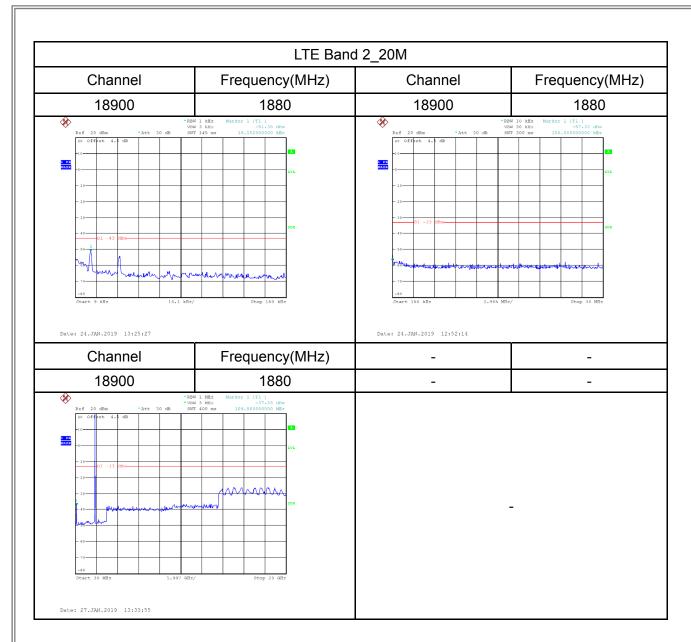
















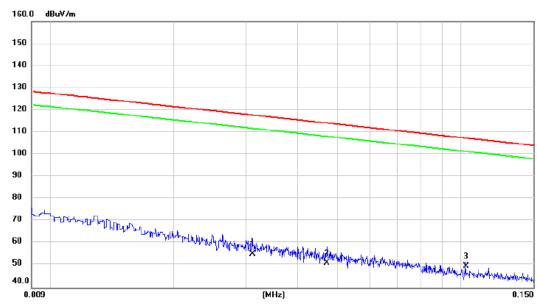
APPENDIX D - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0311	-14.10	69.37	55.27	117.75	-62.48	AVG	
2	0.0472	-13.70	64.90	51.20	114.13	-62.93	AVG	
3 *	0.1027	-8.10	57.84	49.74	107.38	-57.64	QP	

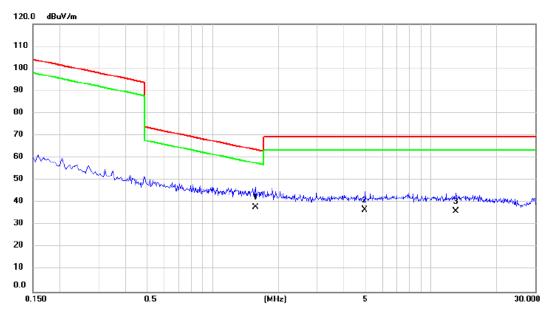
Report No.: BTL-FCCP-3-1901H008A

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Ant 0°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	1.5765	-2.00	39.82	37.82	63.65	-25.83	QP	
2	4.9785	-1.10	37.70	36.60	69.54	-32.94	QP	
3	13.0065	-1.70	37.97	36.27	69.54	-33.27	QP	

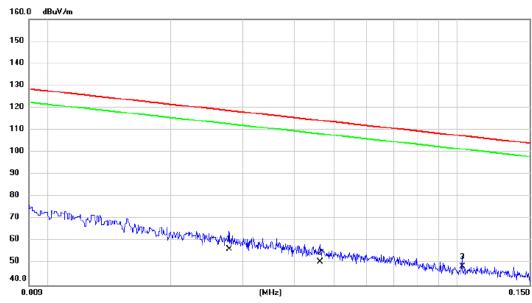
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Ant 90°



No. Mk.	Freq.		Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0278	-13.90	70.27	56.37	118.72	-62.35	AVG	
2	0.0462	-14.50	65.15	50.65	114.31	-63.66	AVG	
3 *	0.1027	-9.20	57.84	48.64	107.38	-58.74	QP	

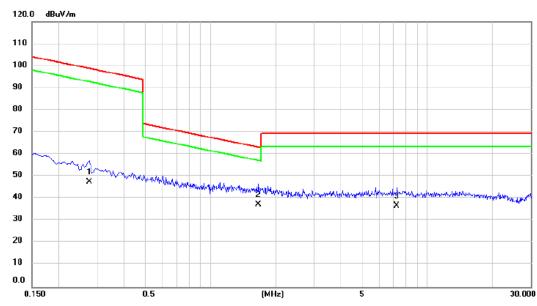
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Ant 90°



No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2760	-2.00	49.52	47.52	98.79	-51.27	AVG	
2 *	1.6665	-2.40	39.60	37.20	63.17	-25.97	QP	
3	7.2375	-0.90	37.78	36.88	69.54	-32.66	QP	

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APPENDIX E - RADIATED EMISSION (30MHZ TO 1GHZ)

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Test Mode: WCDMA Band II_TX CH9400

Vertical 0.0 dBm -10 -20 -30 -40 -50 -60 -70 ě -80 3 3 45 XX -90 -100.0 1000.00 MHz 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	33.8800	-58.14	-17.43	-75.57	-13.00	-62.57	peak	
2		45.5200	-63.56	-17.15	-80.71	-13.00	-67.71	peak	
3		146.4000	-70.29	-15.81	-86.10	-13.00	-73.10	peak	
4		349.1300	-74.38	-13.86	-88.24	-13.00	-75.24	peak	
5		362.7100	-74.58	-14.15	-88.73	-13.00	-75.73	peak	
6		754.5900	-72.90	-7.94	-80.84	-13.00	-67.84	peak	

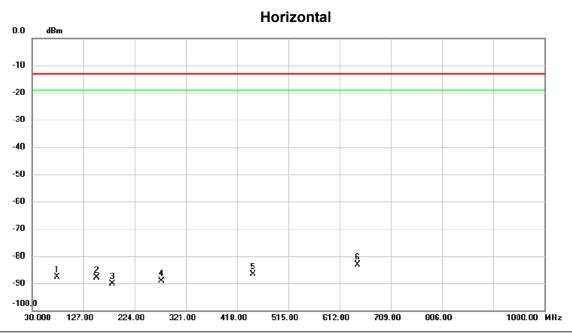
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Test Mode: WCDMA Band II_TX CH9400



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
	1		77.5300	-66.93	-20.74	-87.67	-13.00	-74.67	peak	
	2		152.2200	-72.37	-15.61	-87.98	-13.00	-74.98	peak	
_	3		181.3200	-71.60	-18.56	-90.16	-13.00	-77.16	peak	
	4		274.4400	-72.09	-17.11	-89.20	-13.00	-76.20	peak	
	5		448.0700	-74.28	-12.45	-86.73	-13.00	-73.73	peak	
	6	*	646.9200	-73.84	-9.29	-83.13	-13.00	-70.13	peak	

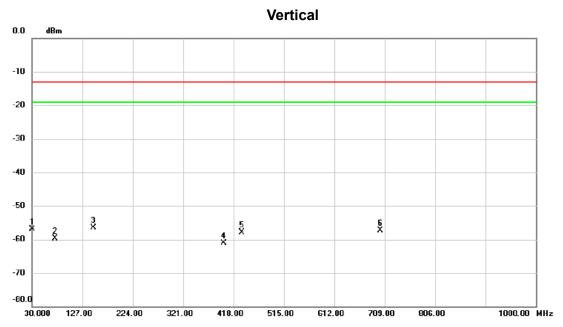
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Test Mode: LTE Band 2_TX CH18900_1.4M



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		30.0000	-48.78	-8.08	-56.86	-13.00	-43.86	peak	
2		74.6200	-48.88	-10.79	-59.67	-13.00	-46.67	peak	
3	*	148.3400	-50.46	-6.09	-56.55	-13.00	-43.55	peak	
4		399.5700	-56.50	-4.57	-61.07	-13.00	-48.07	peak	
5		433.5200	-54.50	-3.33	-57.83	-13.00	-44.83	peak	
6		700.2700	-57.61	0.36	-57.25	-13.00	-44.25	peak	

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Test Mode: LTE Band 2_TX CH18900_1.4M

Horizontal 0.0 dBm -10 -20 -30 -40 -50 š 6 X 5 X 2 X -60 -70 -80.0 30.000 321.00 612.00 1000.00 MHz 127.00 418.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		30.0000	-48.74	-8.08	-56.82	-13.00	-43.82	peak	
2		74.6200	-48.70	-10.79	-59.49	-13.00	-46.49	peak	
3	*	164.8300	-49.89	-6.49	-56.38	-13.00	-43.38	peak	
4		433.5200	-54.44	-3.33	-57.77	-13.00	-44.77	peak	
5		500.4500	-56.60	-2.12	-58.72	-13.00	-45.72	peak	
6		700.2700	-57.78	0.36	-57.42	-13.00	-44.42	peak	

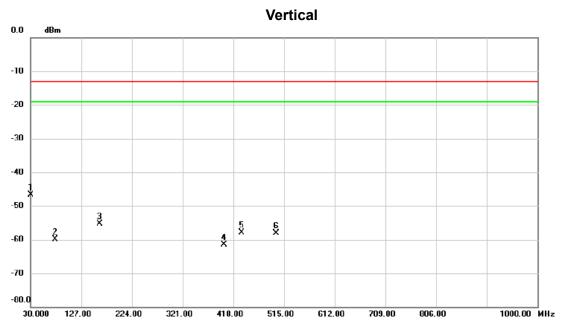
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Test Mode: LTE Band 2_ TX CH18900_5M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	30.0000	-38.66	-8.08	-46.74	-13.00	-33.74	peak	
2		76.5600	-48.86	-11.02	-59.88	-13.00	-46.88	peak	
3		162.8900	-48.92	-6.39	-55.31	-13.00	-42.31	peak	
4		400.5400	-56.96	-4.55	-61.51	-13.00	-48.51	peak	
5		433.5200	-54.57	-3.33	-57.90	-13.00	-44.90	peak	
6		500.4500	-55.93	-2.12	-58.05	-13.00	-45.05	peak	

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30.000

127.00

224.00

321.00

418.00



1000.00 MHz

Test Mode: LTE Band 2_ TX CH18900_5M

Horizontal O.0 dBm -10 -20 -30 -40 -70 -70 -60.0

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	30.0000	-38.71	-8.08	-46.79	-13.00	-33.79	peak	
2		75.5900	-49.21	-10.91	-60.12	-13.00	-47.12	peak	
3		124.0900	-48.16	-7.88	-56.04	-13.00	-43.04	peak	
4		399.5700	-56.88	-4.57	-61.45	-13.00	-48.45	peak	
5		499.4800	-56.30	-2.14	-58.44	-13.00	-45.44	peak	
6		700.2700	-58.36	0.36	-58.00	-13.00	-45.00	peak	

515.00

612.00

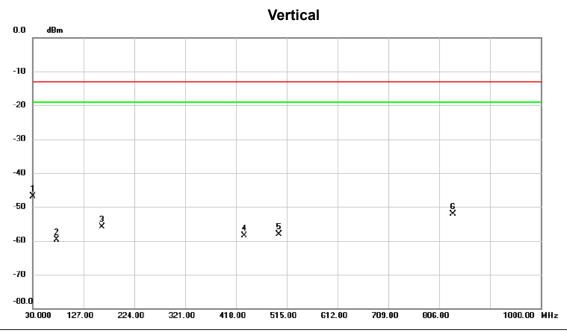
709.00

806.00





Test Mode: LTE Band 2_TX CH18900_20M



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
-	1	*	30.0000	-38.79	-8.08	-46.87	-13.00	-33.87	peak	
-	2		75.5900	-48.84	-10.91	-59.75	-13.00	-46.75	peak	
Ī	3	1	162.8900	-49.45	-6.39	-55.84	-13.00	-42.84	peak	
-	4	4	133.5200	-55.13	-3.33	-58.46	-13.00	-45.46	peak	
-	5	4	199.4800	-55.91	-2.14	-58.05	-13.00	-45.05	peak	
-	6	8	332.1900	-54.56	2.53	-52.03	-13.00	-39.03	peak	
_										

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30.000

127.00

224.00

321.00

418.00



Test Mode: LTE Band 2_TX CH18900_20M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	30.0000	-38.57	-8.08	-46.65	-13.00	-33.65	peak	
2		75.5900	-48.82	-10.91	-59.73	-13.00	-46.73	peak	
3		126.0300	-48.36	-7.80	-56.16	-13.00	-43.16	peak	
4		433.5200	-55.12	-3.33	-58.45	-13.00	-45.45	peak	
5		500.4500	-56.23	-2.12	-58.35	-13.00	-45.35	peak	
6		719.6700	-58.13	0.85	-57.28	-13.00	-44.28	peak	

515.00

612.00

709.00

806.00

1000.00 MHz

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