



## FCC 47 CFR PART 02 FCC 47 CFR PART 96

#### **CERTIFICATION TEST REPORT**

For

#### **Tablet**

**MODEL NUMBER: VT-TABLET-5081G** 

**FCC ID: 2AAGE5081GB48** 

REPORT NUMBER: 4789823272-5

ISSUE DATE: March 17, 2021

Prepared for

Chengdu Vantron Technology Co., Ltd.
No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China

Prepared by

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
	03/17/2021	Initial Issue	



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## 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Chengdu Vantron Technology Co., Ltd.

Address: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R.

China

**Manufacturer Information** 

Company Name: Chengdu Vantron Technology Co., Ltd.

Address: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R.

China

**EUT Information** 

EUT Name: Tablet

Model: VT-TABLET-5081G

Brand: VANTRON

Sample Received Date: January 20, 2021

Sample Status: Normal

Sample ID:

Date of Tested: January 20, 2021~ March 17,2021

#### **APPLICABLE STANDARDS**

STANDARD TEST RESULTS

FCC 47 CFR PART 2 PASS FCC 47 CFR PART 96 PASS

Prepared By:

Checked By:

Jacky Jiang

**Engineer Project Associate** 

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Approved By:

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015 & KDB971168, FCC CFR 47 Part 2, Part 27, Part90,RSS-140,RSS-192,RSS-197,RSS-199.

# 3. FACILITIES AND ACCREDITATIO

	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.  FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification rules
Accreditation	ISED (Company No.: 21320)
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The
	Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

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## 4. CALIBRATION AND UNCERTAINTY

## 4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

## 4.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty	
Uncertainty for Conduction emission test	3.32dB (150KHz-30MHz)	
Uncertainty for Conduction emission test	3.72dB (9KHz-150KHz)	
Uncertainty for Radiation Emission test (include	4.70 dB (Antenna Polarize: V)	
Fundamental emission) (30MHz-1GHz)	4.84 dB (Antenna Polarize: H)	
	4.10dB(1-6GHz)	
Uncertainty for Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	4.40dB (6GHz-18Gz)	
(1011210 200112) (11101000 1 01100111011011011011)	3.54dB (18GHz-26Gz)	
Bandwidth	1.1%	
Stop Transmitting Time Test	0.6%	

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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# 5. EQUIPMENT UNDER TEST

## **5.1 DESCRIPTION OF EUT**

Equipment	Tablet		
Model Name	VT-TABLET-5081G		
Power Input	DC 3.85V, 890mAh		
	Power Adapter	Input	/
Power Supply		Output	/
	Li-ion Battery	Battery 3.8 V, 8000 mAh, 30.4Wh	
Hardware Version	5.0		
Software Version	/		

## **5.2 TECHNICAL INFORMATION**

	Characteristics			
E-UTRA Band				
	E-UTRA operating bands		Bandwidth	
	Transmit	Receive		
48	3550 MHz to 3700 MHz	3550 MHz to 3700 MHz	⊠5M ⊠20M ⊠10M ⊠15M	



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## **5.3 MAXIMUM OUTPUT POWER**

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

#### LTE Band48

LIL Dalla-to						
Part 96						
EIRP Limit(W)/ 10MHz		0.20				
Antenna Gain (dBi)		-0.3				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)
5	QPSK	3552.5	2007.5	20.24	19.94	0.099
5	16QAM		3552.5	3552.5 3697.5	20.26	19.96
10	QPSK	3555.0	3695.0	20.26	19.96	0.099
10	16QAM	3555.0	3093.0	20.21	19.91	0.098
15	QPSK	3557.5	2002 E	20.4	20.1	0.102
15	16QAM	3557.5	3692.5	20.48	20.18	0.104
20	QPSK	3560	3690	20.49	20.19	0.104
20	16QAM	3560		20.46	20.16	0.104



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#### 5.4 WORST-CASE CONFIGURATION AND MODE

The EUT supports LTE Bands of: , Band 48.

During all testing, EUT is in link mode with base station emulator at maximum power level. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was the worst-case orientation connected with charger and earphone.

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz. the emissions between 30MHz-1GHz were tested the highest transmitting power channel and the worse configuration.

#### Worst Case

Worst Case				
Test Items	Test configuration			
Description	Modulation	Channel	Bandwidth (MHz)	RB Configuration
Occupied Bandwidth	QPSK, 16QAM	L, M, H	5,10,15,20	Full RB
Band Edge Compliance(Adjacent Channel Power)	QPSK, 16QAM	L, M, H	The Maximum BW	RB size=1, RB Location= Low
Spurious Emission at Antenna Terminal	QPSK,	L, M, H	5,10,15,20	1.RB size=1, RB Location= Low,High 2.RB Size=Full
Radiated Spurious Emissions	QPSK	L, M, H	The Maximum BW	RB size=1, RB Location= Low



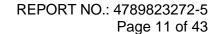
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## **5.5 TEST ENVIRONMENT**

Environment Parameter	Selected Values During Tests		
Relative Humidity	52%		
Atmospheric Pressure:	1	025Pa	
Temperature	TN	25.0 °C	
	VL	4.25 V	
Voltago	VN	5.0 V	
Voltage:	VH	5.75 V	
	End Voltage	3.00V	

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature





## **5.6 TEST CHANNEL LIST**

Mode	TX/RX	Low	Middle	High
		55265	55990	56715
	TX (5 MHz)	3552.5	3625.5	3697.5
		55290	55990	56690
LTE Band 48	TX (10 MHz)	3555.0	3625.5	3695.0
LIE Ballu 40		55315	55990	56665
	TX (15 MHz)	3557.5	3625.5	3692.5
		55340	55990	56640
	TX (20 MHz)	3560.0	3625.5	3690.0



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## 5.7 DESCRIPTION OF AVAILABLE ANTENNAS

Band	Antenna Type	Antenna Gain (dBi)
LTE Band 48	PIFA	-0.3

## **5.8 DESCRIPTION OF TEST SETUP**

## **SUPPORT EQUIPMENT**

Item	Equipment	Brand Name	Model Name	FCC ID
1	N/A	N/A	N/A	N/A

## I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	N/A	N/A	N/A	N/A	N/A

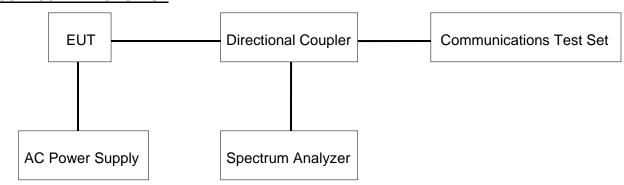
## **ACCESSORY**

Item	Accessory	Brand Name	Model Name	Description
1	Travel Changer	/	RD0501000-USBA18MG	5V/1A

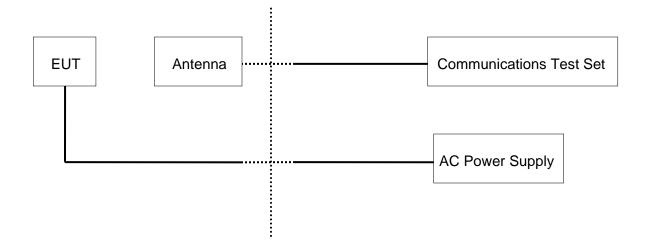


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## **CONDUCTED TEST SETUP**



## **RADIATED TEST SETUP**





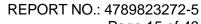
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## 5.9 MEASURING INSTRUMENT AND SOFTWARE USED

		Conc	lucted E	missi	ons			
			Instrum	ent				
Used	Equipment	Manufacturer	Model	No.	Serial N	0.	Last Cal.	Next Cal.
V	UXM 5G Wireless Test Platform	Keysight	E751	5B	MY60102 4	19	Feb.09,2021	Feb.09,2022
	Wideband Radio Communication Tester	Starpoint	SP9500	)-CTS	SP9500 20517		Feb.09,2021	Feb.09,2022
	Signal & Spectrum analyzer	R&S	FS\	W	1312.800 26-10395 sj		Nov.20,2020	Nov.19,2021
<b>V</b>	RF conditioning unit	Tonscend	JS080	06-1	1518.000 14-10132 aZ		\	\
	Wideband filter unit	Tonscend	JS080	)6-F	20J80603 9	32	\	\
			Softwa	are				
Used	Des	cription		Manu	ıfacturer		Name	Version
$\overline{\mathbf{V}}$	JS1120 RI	Test System		Tor	scend		JS1120	Ver 2.6.9

		Conducte	ed Emissions	·	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V- Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
		Sc	ftware		
Γ	Description		Manufacturer	Name	Version
Test Software f	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1
		Radiated	d Emissions		
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021

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Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	80000	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	Nov. 12, 2020	Nov. 11, 2021
		Sc	ftware		
1	Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1

	Tonse	end RF Test S	ystem				
Equipment	Manufacturer	Model No.	Seria	l No.	Last Ca	al.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155	523	Nov.20,2	020	Nov.19,2021
PXA Signal Analyzer	Keysight	N9030A	MY554	10512	Nov.20,2	020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5182B	MY562	00284	Nov.20,2	020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5172B	MY562	00301	Nov.20,2	020	Nov.19,2021
DC power supply	Keysight	E3642A	MY551	59130	Nov.24,2	020	Nov.23,2021
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	20	88	Nov.20,2	020	Nov.19,2021
		Software					



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Description		Manuf	facturer		Name			Version
Tonsend SRD Test	System	Ton	send	JS	31120-3 RF Test	System	2	2.6.77.0518
			Other	Instr	uments			
Equipment	Manufa	acturer	Model 1	Vo.	Serial No.	Last Ca	al.	Next Cal.
Dual Channel Power Meter	Keys	sight	N1912	2A	MY55416024	Nov. 20, 2	2020	Nov. 19, 2021
Power Sensor	Keys	sight	USB Wideba Powe Senso	and er	MY5100022	Nov. 20, 2	2020	Nov. 19, 2021

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## 6. TEST RESULTS

## **6.1 OUTPUT POWER VERIFICATION**

#### **ERP/EIRP RULE PART(S)**

FCC: §96.

#### **ERP/EIRP TEST PROCEDURE**

ANSI C63.26:2015/ KDB 971168 D01 Section 5.6.

ERP/ EIRP = PMeas + GT - LC

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

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

#### **RESULTS**

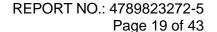
See the following pages.



LTE Band 48

LTE Band 48				Cha	nnol	
			-	55265	nnel 55990	56715
Dondwidth	Mada	RB Allocation	RB offset		3625.5MHz	3697.5MHz
Bandwidth	Mode	Allocation 1	0	3552.5MHz 19.01		
		1	12		19.91	19.99
		1		19.02	19.13	19.84
	QPSK		24	19.17	19.22	20.01
	QFSK	12	0	18.84	19.05	19.73
		12	7	19.35	19.82	20.24
		12	13	19.08	19.69	20.02
5MHz		25	0	19.02	19.66	19.92
		1	0	18.95	19.65	19.89
		1	12	19.22	19.75	20.04
	400 4 8 4	1	24	18.91	19.56	19.78
	16QAM	12	0	19.4	19.99	20.26
		12	7	19.23	19.69	20.03
		12	13	19.06	19.65	19.94
		25	0	19.06	19.66	19.98
					nnel	
		RB	RB	55290	55990	56690
Bandwidth	Mode	Allocation	offset	3555MHz	3625.5MHz	3695MHz
		1	0	19.24	19.79	20.22
		1	25	19.12	19.78	20.25
		1	49	19.01	19.78	20.26
	QPSK	25	0	19.01	19.77	20.18
		25	12	19	19.78	20.24
		25	25	19.01	19.77	20.24
10MHz		49	0	19.01	19.77	20.24
		1	0	19.21	19.79	20.21
		1	25	19.08	19.78	20.19
		1	49	19.09	19.78	19.96
	16QAM	25	0	19.08	19.77	19.96
		25	12	19.08	19.78	20.19
		25	25	19.09	19.77	19.95
		49	0	19.09	19.77	20.18
				Cha	nnel	
		RB	RB	55315	55990	56665
Bandwidth	Mode	Allocation	offset	3557.5MHz	3625.5MHz	3692.5MHz
		1	0	19.06	19.46	20.37
15MHz	QPSK	1	37	19.06	19.45	20.4
		1	74	19.04	19.46	20.39

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36 0 19.04 19.43 20.38 36 20 19.02 19.44 20.37 36 39 19.02 19.42 20.36 75 0 19.01 19.42 20.35 1 0 19.14 19.96 20.48 1 37 19.12 19.95 20.46 1 74 19.12 19.95 20.45 16QAM 0 36 19.1 19.95 20.44 36 20 19.09 19.95 20.43 39 36 19.09 19.94 20.42 75 0 19.21 19.94 20.4 Channel 55340 56640 55990 **RB RB** Bandwidth Mode Allocation offset 3560MHz 3625.5MHz 3690MHz 1 0 19.25 19.87 20.37 1 49 19.25 19.8 20.49 1 19.24 99 19.91 20.45 **QPSK** 50 0 19.23 19.9 20.43 50 24 19.24 19.89 20.42 50 50 19.24 19.88 20.4 99 0 19.23 19.88 20.4 20MHz 1 0 19.25 19.82 20.46 1 49 19.24 19.92 20.43 1 19.24 19.9 20.41 99 16QAM 50 0 19.24 19.89 20.39 50 24 19.23 19.88 20.38 50 19.24 50 19.88 20.37 99 0 19.23 19.87 20.36



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## **6.2 PEAK TO AVERAGE RADIO**

#### **LIMITS**

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

#### **TEST PROCEDURE**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01.

The transmitter output was connected to a UXM Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

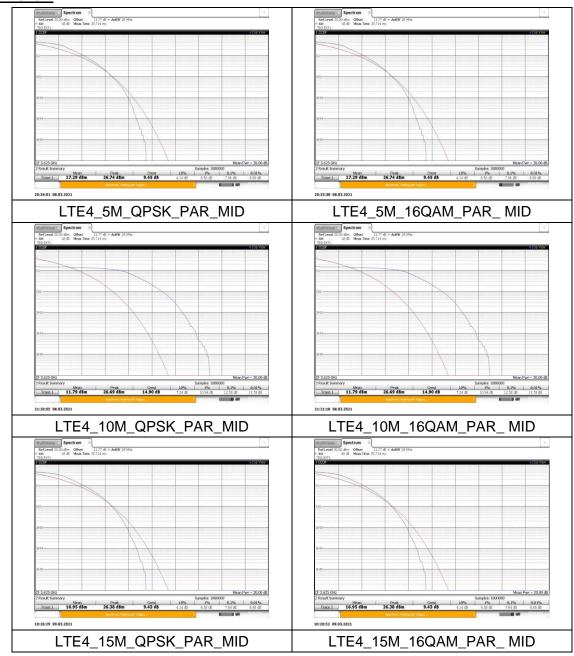
#### **RESULTS**

See the following pages.

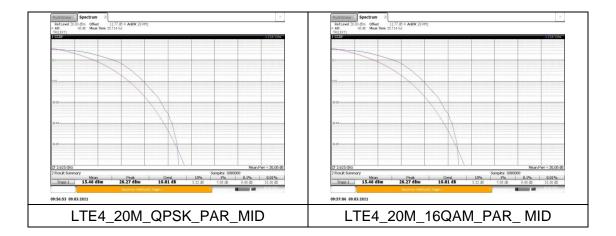
LTE Band	Bandwidth (MHz)	F (MHz)	RB Configuration	Modulation	Measured (dB)	Limit (dB)	Verdict
	5		25RB 0#	QPSK	7.96	13	PASS
	5		23KB 0#	16QAM	7.96	13	PASS
	10		50RB 0#	QPSK	12.58	13	PASS
48	10	3525.5	30NB 0#	16QAM	12.58	13	PASS
40	15	3323.3	75RB 0#	QPSK	7.84	13	PASS
	15		73NB 0#	16QAM	7.84	13	PASS
	20		100RB 0#	QPSK	9.40	13	PASS
	20		100KB 0#	16QAM	9.40	13	PASS



LTE Band 4









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## **6.3 OCCUPIED BANDWIDTH**

#### **RULE PART(S)**

FCC: §2.1049.

#### **LIMITS**

For reporting purposes only.

#### **TEST PROCEDURE**

KDB 971168 D01 Power Meas License Digital Systems v03r01.

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

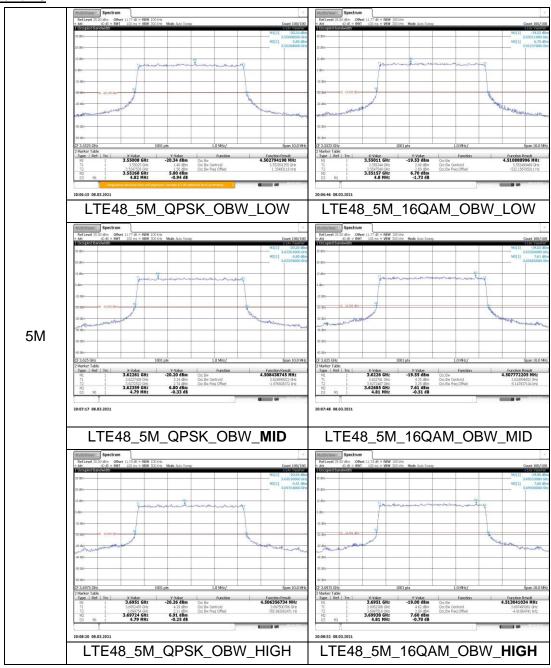
## **RESULTS**

See the following pages.

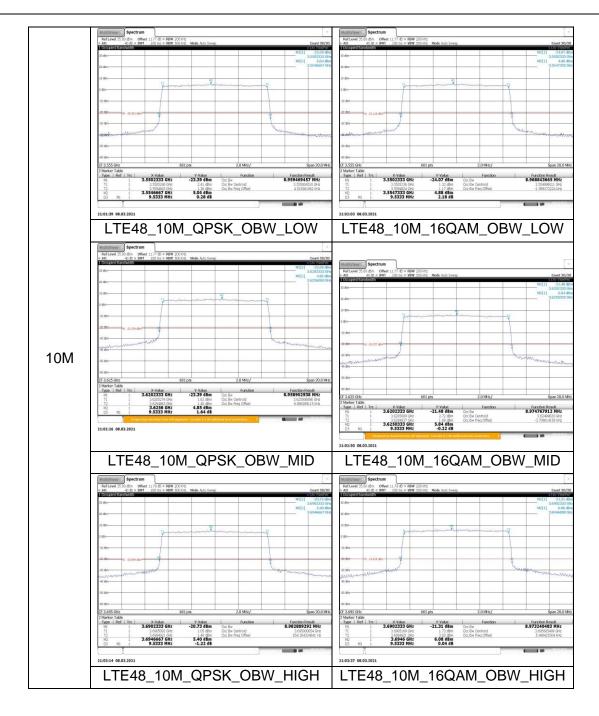
LTE Band	Bandwidth (MHz)	Channel	Modulation	The Maximum Measured OBW
	5	MID	QPSK	4.508
	5	HIGH	16QAM	4.513
	10	HIGH	QPSK	8.983
48	10	MID	16QAM	8.975
	15	HIGH	QPSK	13.45
	15	LOW	16QAM	13.475
	20	HIGH	QPSK	18.025
	20	HIGH	16QAM	18.024

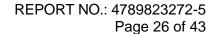


## LTE Band 48

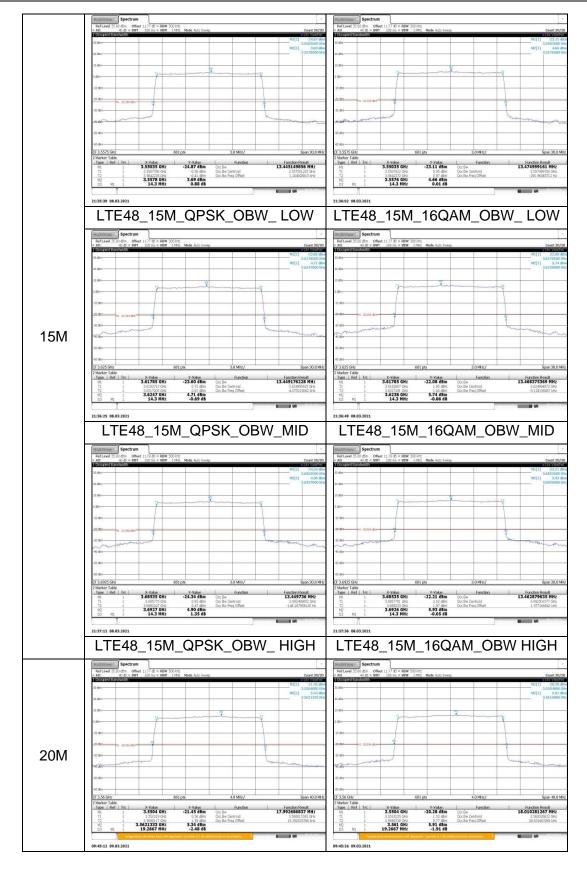






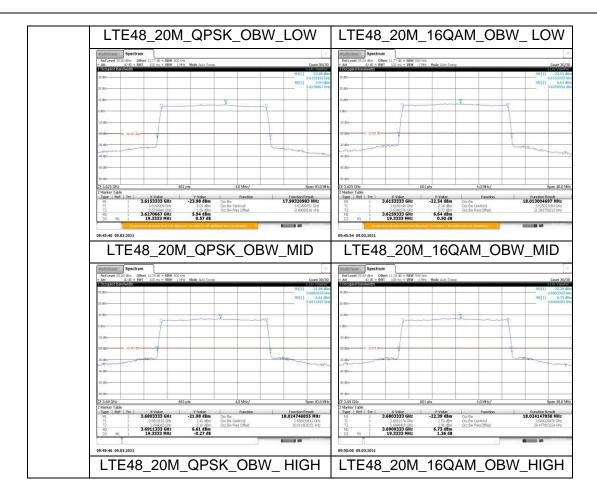






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## **6.4 FREQUENCY STABILITY**

## **TEST PROCEDURE**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01.

## **RESULTS**

Test Mode	Test C	onditions		quency Devia Middle Chann	
	Power (VDC)	Temperature (°C)	Frequency Error	Frequency Error	Limit
	(120)	( 0)	Hz	ppm	ppm
		-30	87.37	0.024594	
		-20	116.32	0.032743	
		-10	48.23	0.013576	
		0	-14.76	-0.004155	
LTE Band 48	VN	+10	131.72	0.037078	
		+20	7.47	0.002061	
		+30	42.44	0.011708	±2.5
		+40	26.33	0.007263	
		+50	113.92	0.031426	
	VL		-74.96	-0.021101	
	VH	TN	112.79	0.031749	
	End Point		-66.79	-0.018801	



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## 6.5 BAND EDGE AND EMISSION MASK

#### **RULE PART(S)**

FCC:§96.41.

#### **LIMITS**

FCC: §96.41.

- (e) 3.5 GHz Emissions and Interference Limits-
- (ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.
- (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed –40dBm/MHz.

#### **TEST PROCEDURE**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01:

The transmitter output was connected to a Call BOX Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

Set the RBW = 1 ~ 1.5 % of OBW(Typically limited to a minimum RBW of 1% of the OBW)

- b) Set VBW  $\geq$  3 × RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points ≥ 2\*Span/RBW:
- g) Trace mode = Average (100).

## TEST PROCEDURE (LTE Band48)

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.



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(ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/ channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.

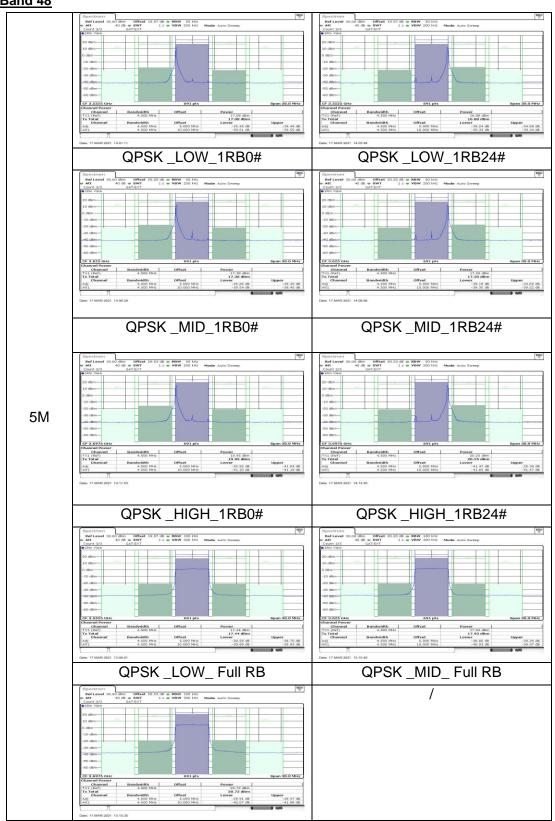
(iii) Compliance with emission limits shall be demonstrated using either average(RMS)-detected or peak-detected power measurement techniques.

#### **RESULTS**

See the following pages.

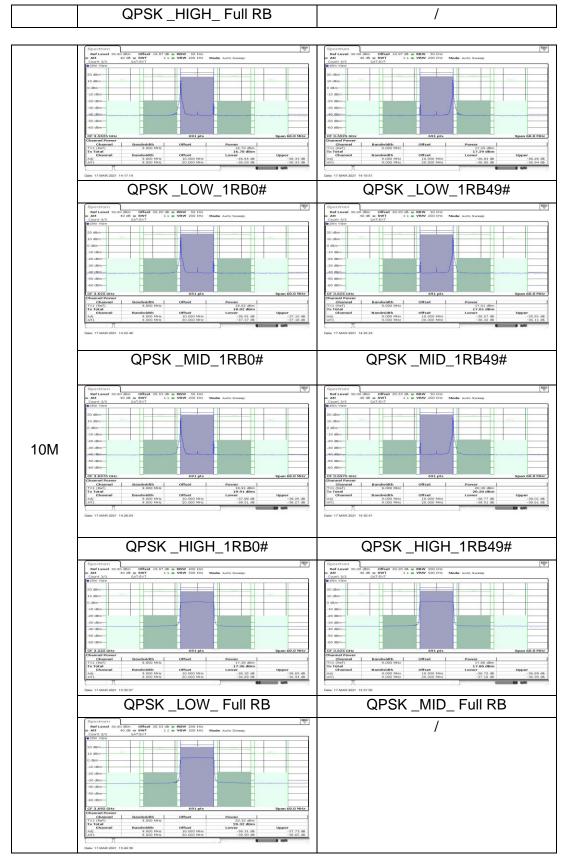


## LTE Band 48



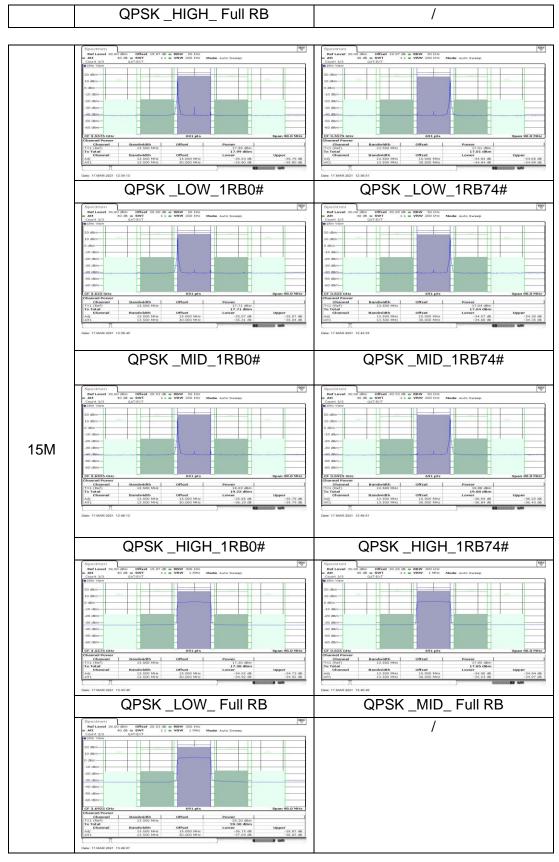
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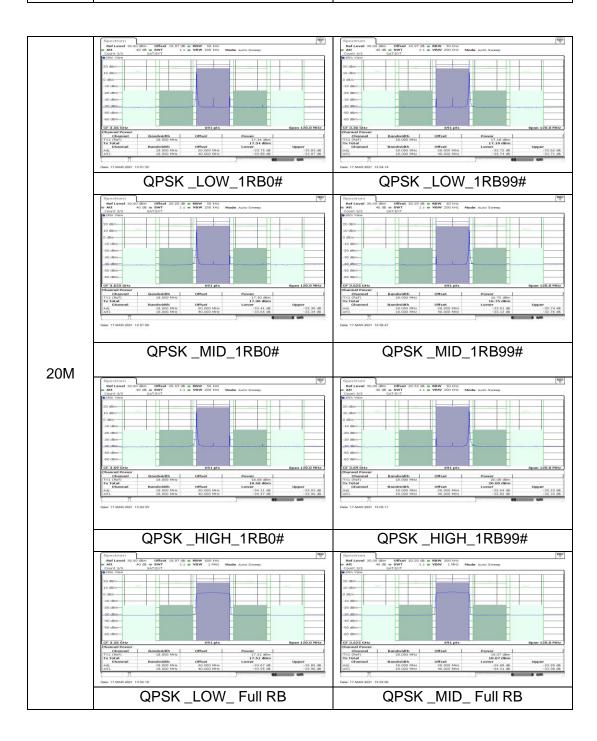




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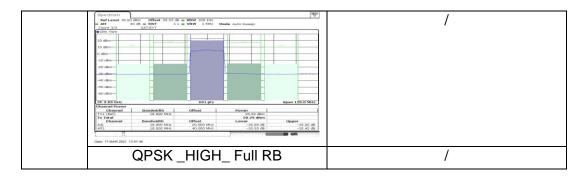


QPSK \_HIGH\_ Full RB /





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## 6.6 CONDUCTED OUT OF BAND EMISSIONS

## **RULE PART(S)**

FCC: §96.41.

#### **LIMITS**

(e) 3.5GHz Emissions and Interference Limits-

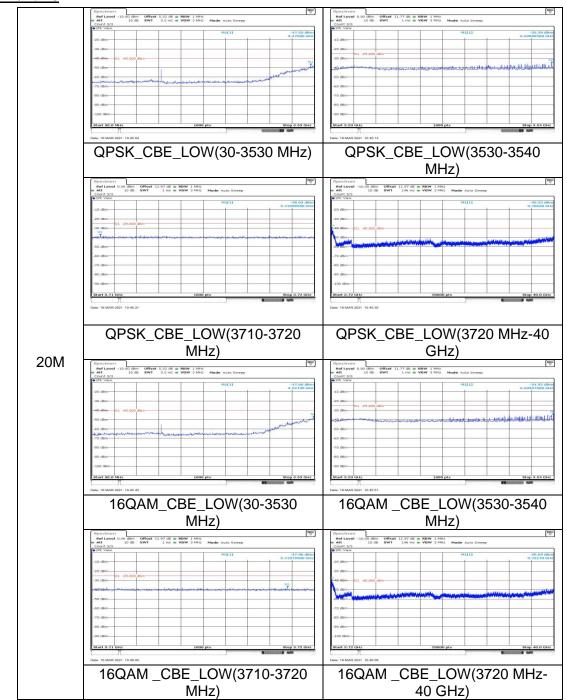
(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz..

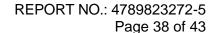
#### **RESULTS**

See the following pages.

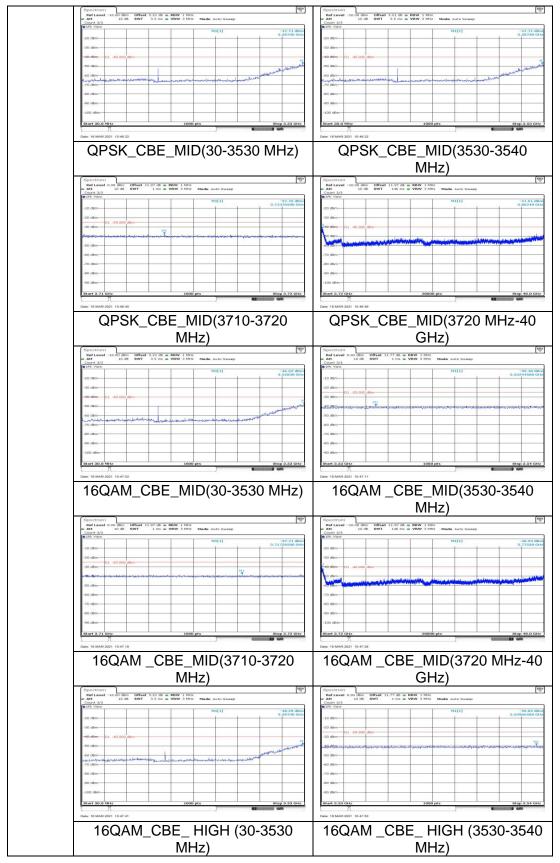


## LTE Band 48



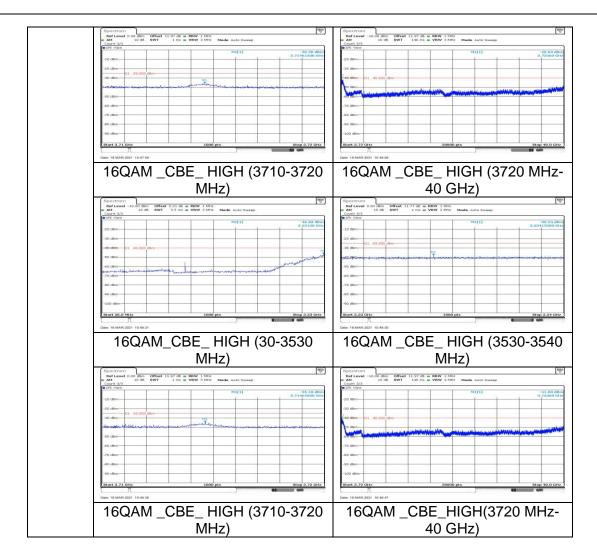






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## 6.7 FIELD STRENGTH OF SPURIOUS RADIATION

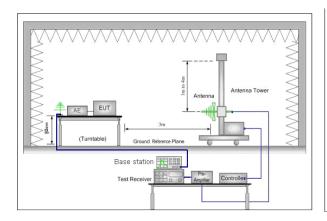
#### **LIMIT**

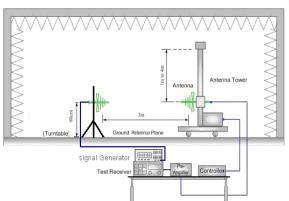
FCC: §96.41.

- (e) 3.5GHz Emissions and Interference Limits-
- (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

## **TEST SETUP**

Test Setup for Below 1G

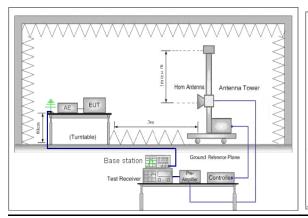


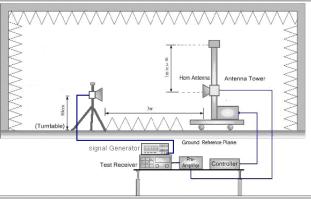




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#### Test Setup for Above 1G





#### **TEST PROCEDURE**

KDB 971168 D01 Section 7

Below 1GHz test procedure as below:

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. Calculate power in dBm by the following formula:

ERP(dBm) = Pq(dBm) - cable loss(dB) + antenna gain(dBd)

#### Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

#### Above 1GHz test procedure as below:

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.

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10. Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

Where: Pg is the generator output power into the substitution antenna.

11. 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.

NOTE 1: Radiated spurious emissions were investigated below 30MHz, 30MHz – 1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz – 1GHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

NOTE 2: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

#### **RESULTS**

See the following pages

#### RADIATED SPURIOUS EMISSION RESULTS BETWEEN 30MHz and 1GHz

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
30.97	-75.47	-40.00	-35.47	Horizontal
58.13	-76.30	-40.00	-36.30	Horizontal
72.68	-79.65	-40.00	-39.65	Horizontal
226.91	-82.07	-40.00	-42.07	Horizontal
800.18	-73.89	-40.00	-33.89	Horizontal
900.09	-72.82	-40.00	-32.82	Horizontal
30.97	-73.40	-40.00	-33.40	Vertical
75.59	-72.33	-40.00	-32.33	Vertical
255.04	-72.67	-40.00	-32.67	Vertical
700.27	-74.73	-40.00	-34.73	Vertical
800.18	-69.33	-40.00	-29.33	Vertical
851.59	-71.62	-40.00	-31.62	Vertical
	LT	E B48_20N	I_QPSK_LOW	
	LI	E B46_20IV	I_QPSK_LOW	



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## RADIATED SPURIOUS EMISSION RESULTS ABOVE 1GHz

## LTE Band 48

1931	1542	requency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1989   448   51	338		-51.77	-40.00	-11.77	Horizontal		-52.22	-40.00	-12.22	Horizontal
493	1491						2206	-48.72	-40.00	-8.72	Horizontal
141	1811	3280	-48.51	-40.00	-8.51		3130	-43.33	-40.00	-3.33	Horizontal
1972   42.42   440.00   2.42   Horizontal   1970   43.98   440.00   2.38   Horizontal   1970   43.98   440.00   5.37   Horizontal   1982   44.97   440.00   5.31   Horizontal   1982   44.00   4.57   Horizontal   1982   44.00   4.00   4.00   Horizontal   1982   Ho	642   42   42   40 00   -2 42   Horizontal				-9.31					-5.19	
1996	1999										
1986   449 76	1848										
9002	19802										
19952	1982										
1372   5-50.03   4-0.00   -10.03   Horizontal	1172   5-50.03										
15099	1609										
Frequency   Level (dB)   Limit Line (dB)   Over Limit (dB)   Polarization   Pol	Frequency										
Control   Cont	Control   Cont		-43.51	-40.00	-3.51	Horizoniai		-51.86	-40.00	-11.86	Horizoniai
1378   447.55	1398   -47.55   -40.00   -7.55   Vortical     2398.00   -44.97     -40.00   -4.97	(MHz)		. ,			(MHz)				
3358,00	3378   4-42 57   4-40 00   2-2 57   Vertical   449 56   440 95   440 00   9-95   Vertical   488   449 56   440 95   440 00   7.10   Vertical   488   471 01   40.00   7.11 0   Vertical   488   471 01   40.00   7.11 0   Vertical   488   471 01   40.00   7.11 0   Vertical   488   489 00   44.57   40.00   7.15   Vertical   488   489 00   44.57   40.00   7.23   Vertical   488   489 00   44.52   40.00   5.23   40.00   5.23   40.00   5.23   40.00   5.23   40.00   5.23   40.00   5.23   40.00   5.23   40.00   4.24   40.0										
448   4-9 95   4-0 00   9-9 95   Vertical   488   4-7 10   4-0 00   7-7 88   Vertical   644   5-51 40   4-0 00   1-11 40   Vertical   644   5-51 40   4-0 00   1-11 40   Vertical   648   6-7 16   4-0 00   1-11 40   Vertical   648   6-7 16   4-0 00   1-11 40   Vertical   648   4-7 16   4-0 00   1-11 40   Vertical   658 00   4-45 75   4-0 00   1-15   Vertical   658 00   4-45 75   4-0 00   1-15   Vertical   658 00   4-45 15   4-0 00   1-15   Vertical   658 00   4-45 15   4-0 00   1-15   Vertical   658 00   4-45 29   4-0 00   5-23   Vertical   658 00   4-45 29   4-0 00   4-7 88   Vertical   658 00   4-45 29   4-0 00   4-7 88   Vertical   658 00   4-45 29   4-0 00   4-7 88   Vertical   658 00   4-45 29   4-0 00   4-7 88   Vertical   658 00   4-7 88   4-	4488   4-9 95										
4838   4-7, 10	4888										
6544   -51.40   -40.00   -11.40   Vertical	6544   51.40										
1999	1999										
3898	3-90										
10652	10852										
1229	1229										
14865	1485										
17725	17725									0.00	
LTE B48_20M_QPSK_LOW   Limit Line (dB)	LTE B48_20M_QPSK_LOW   Level (dB)										
2494 00         -46.61         -40.00         -6.61         Horizontal           3238.00         -50.53         -40.00         -10.53         Horizontal           4066.00         -47.55         -40.00         -7.55         Horizontal           5248.00         -47.16         -40.00         -/         Horizontal           6490.00         -43.71         -40.00         -3.71         Horizontal           7352.00         -50.04         -40.00         -4.79         Horizontal           8991.00         -44.79         -40.00         -5.04         Horizontal           11499.00         -48.91         -40.00         -8.91         Horizontal           11499.00         -48.92         -40.00         -9.26         Horizontal           16009.00         -43.38         -40.00         -3.89         Horizontal           17ecquency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588.00         -50.84         -40.00         -5.28         Vertical           4870.00         -48.24         -40.00         -8.94         Vertical           9992.00         -44.87         -40.00         -4.87         Vertical	2494 00         -46.61         -40.00         -6.61         Horizontal           3238.00         -50.53         -40.00         -10.53         Horizontal           4066.00         -47.55         -40.00         -7.55         Horizontal           5248.00         -47.16         -40.00         -7         Horizontal           6490.00         -43.71         -40.00         -3.71         Horizontal           7352.00         -50.04         -40.00         -4.79         Horizontal           8991.00         -44.79         -40.00         -5.04         Horizontal           11499.00         -48.91         -40.00         -8.91         Horizontal           11499.00         -49.26         -40.00         -9.26         Horizontal           16009.00         -49.28         -40.00         -3.89         Horizontal           17ecquency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588.00         -50.84         -40.00         -5.28         Vertical           4870.00         -48.24         -40.00         -6.24         Vertical           4990.00         -48.99         -40.00         -6.89         Vertical					Polarization		L <sup>-</sup>	ΓΕ B48_20M	1_QPSK_MID	
3238.00	3238.00					Polarization		Ľ	ΓΕ B48_20M	1_QPSK_MID	
4086 00         -47.55         -40.00         -7.55         Horizontal           5248 00         -47.16         -40.00         /         Horizontal           699 00         -43.71         -40.00         -3.71         Horizontal           7352 00         -50.04         -40.00         -10.04         Horizontal           10003 00         -45.04         -40.00         -4.79         Horizontal           11499 00         -48.91         -40.00         -5.04         Horizontal           14722 00         -49.26         -40.00         -9.96         Horizontal           16009.00         -43.89         -40.00         -3.89         Horizontal           16009.00         -43.89         -40.00         -3.89         Horizontal           1588.00         -50.84         -40.00         -10.94         Vertical           1588.00         -50.84         -40.00         -5.28         Vertical           2398.00         -45.28         -40.00         -5.28         Vertical           4870.00         -46.89         -40.00         -6.89         Vertical           9902.00         -44.87         -40.00         -4.89         Vertical           6502.00         -51.	4066 00	(MHz) 1840.00	Level (dB) -49.99	Limit Line (dB)	Over Limit (dB)	Horizontal		L	ΓΕ B48_20N	1_QPSK_MID	
5248 00         -47 16         -40 00         /         Horizontal           6490 00         -43 71         -40 00         -3.71         Horizontal           7352 00         -50 04         -40 00         -10 04         Horizontal           8991 00         -44 79         -40 00         -4.76         Horizontal           11499 00         -45 04         -40 00         -5.04         Horizontal           11499 00         -48 91         -40 00         -8.91         Horizontal           14722 00         -49 26         -40 00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1880 00         -50.84         -40.00         -5.28         Vertical           2398 00         -45.28         -40.00         -5.28         Vertical           4870 00         -48.24         -40.00         -8.94         Vertical           4870 00         -48.24         -40.00         -8.89         Vertical           9902 00         -44.87         -40.00         -4.87         Vertical           9902 00         -44.78         -40.00         -4.87         Vertical	5248 00         -47 16         -40 00         /         Horizontal           6490 00         -43.71         -40 00         -3.71         Horizontal           8991 00         -43.71         -40 00         -10.04         Horizontal           8991 00         -45.94         -40.00         -4.76         Horizontal           11499 00         -45.94         -40.00         -5.94         Horizontal           11499 00         -48.91         -40.00         -8.91         Horizontal           16009 00         -49.26         -40.00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588 00         -50.84         -40.00         -5.28         Vertical           2398 00         -45.28         -40.00         -5.28         Vertical           4870 00         -48.24         -40.00         -6.89         Vertical           4870 00         -48.27         -40.00         -4.87         Vertical           6502 00         -51.25         -40.00         -4.87         Vertical           6502 00         -51.25         -40.00         -4.84         Vertical	(MHz) 1840.00 2494.00	Level (dB) -49.99 -46.61	Limit Line (dB) -40.00 -40.00	Over Limit (dB) -9.99 -6.61	Horizontal Horizontal		L	ΓΕ B48_20N	1_QPSK_MID	
6490.00         -43.71         -40.00         -3.71         Horizontal           7352.00         -50.04         -40.00         -10.04         Horizontal           8991.00         -44.79         Horizontal           10003.00         -45.04         -40.00         -5.04         Horizontal           14722.00         -49.26         -40.00         -8.91         Horizontal           14722.00         -49.26         -40.00         -3.89         Horizontal           16009.00         -43.99         -40.00         -3.89         Horizontal           16009.00         -43.99         -40.00         -3.89         Horizontal           16009.00         -43.99         -40.00         -3.89         Horizontal           16009.00         -43.89         -40.00         -3.89         Horizontal           1680.0         -50.84         -40.00         -10.84         Vertical           1588.00         -50.84         -40.00         -5.28         Vertical           3340.00         -45.28         -40.00         -8.24         Vertical           4870.00         -46.89         -40.00         -8.89         Vertical           9502.00         -44.87         -40.00	6490.00         -43.71         -40.00         -3.71         Horizontal           7352.00         -50.04         -40.00         -10.04         Horizontal           8991.00         -44.79         Horizontal           10003.00         -45.04         -40.00         -5.04         Horizontal           14792.00         -48.91         -40.00         -8.91         Horizontal           18009.00         -49.26         -40.00         -9.26         Horizontal           18009.00         -43.89         -40.00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           (MHz)         Level (dB)         Limit Line (dB)         Vertical           1588.00         -50.84         -40.00         -10.84         Vertical           3340.00         -45.28         -40.00         -5.28         Vertical           4870.00         -46.89         -40.00         -8.24         Vertical           9902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -4.76         Vertical           9992.00         -44.84         -40.	(MHz) 1840.00 2494.00 3238.00	Level (dB) -49.99 -46.61 -50.53	Limit Line (dB) -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53	Horizontal Horizontal Horizontal		L	ΓΕ B48_20N	1_QPSK_MID	
7352.00 -50.04 -40.00 -10.04 Horizontal 8991.00 -44.79 -40.00 -4.79 Horizontal 11499.00 -45.04 -40.00 -5.04 Horizontal 11499.00 -48.91 -40.00 -8.91 Horizontal 11499.00 -49.26 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -5.04 Horizontal 1588.00 -50.84 -40.00 -10.84 Vertical 2398.00 -45.28 -40.00 -5.28 Vertical 3340.00 -48.24 -40.00 -8.24 Vertical 4870.00 -46.89 -40.00 -4.8.89 Vertical 9590.20 -44.87 -40.00 -4.8.7 Vertical 6502.00 -51.25 -40.00 -11.25 Vertical 6502.00 -51.25 -40.00 -11.25 Vertical 6502.00 -44.84 -40.00 -4.83 -40.00 -5.33 Vertical 9990.20 -44.84 -40.00 -4.84 Vertical 9990.20 -44.84 -40.00 -4.84 Vertical 11037.00 -44.84 -40.00 -4.84 Vertical 9990.20 -44.84 -40.00 -7.76 Vertical 11037.00 -44.42 -40.00 -7.76 Vertical	7352.00 -50.04 -40.00 -10.04 Horizontal 8991.00 -44.79 -40.00 -4.79 Horizontal 11499.00 -45.04 -40.00 -5.04 Horizontal 11499.00 -48.91 -40.00 -8.91 Horizontal 11499.00 -49.26 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -3.89 Horizontal 16009.00 -43.89 -40.00 -5.89 Horizontal 1588.00 -50.84 -40.00 -10.84 Vertical 2398.00 -45.28 -40.00 -5.28 Vertical 3340.00 -48.24 -40.00 -8.24 Vertical 4870.00 -48.99 -40.00 -4.87 Vertical 4870.00 -44.87 -40.00 -4.87 Vertical 6502.00 -51.25 -40.00 -11.25 Vertical 6502.00 -51.25 -40.00 -11.25 Vertical 6502.00 -44.76 -40.00 -4.84 Vertical 9992.00 -44.83 -40.00 -5.33 Vertical 1037.00 -44.84 -40.00 -4.53 -40.00 -5.33 Vertical 9992.00 -44.84 -40.00 -4.53 -40.00 -7.76 Vertical 11037.00 -44.82 -40.00 -7.76 Vertical	(MHz) 1840.00 2494.00 3238.00 4066.00	Level (dB) -49.99 -46.61 -50.53 -47.55	Limit Line (dB) -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55	Horizontal Horizontal Horizontal Horizontal		L	ΓΕ B48_20N	1_QPSK_MID	
8991 00         -44 79         -40 00         -4 79         Horizontal           10003 00         -45 04         -40 00         -5 04         Horizontal           11499 00         -48 91         -40 00         -8 91         Horizontal           14722 00         -49 26         -40 00         -9 26         Horizontal           16009 00         -43 89         -40 00         -3 89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588 00         -50 84         -40 00         -10 84         Vertical           2398 00         -45 28         -40 00         -5 28         Vertical           4870 00         -48 24         -40 00         -8 24         Vertical           4870 00         -48 24         -40 00         -8 89         Vertical           5902 00         -44 87         -40 00         -4 87         Vertical           7352 00         -44 76         -40 00         -4 76         Vertical           9992 00         -44 34         -40 00         -5 33         Vertical           1002 00         -44 34         -40 00         -7.76         Vertical <td< td=""><td>8991 00         -44 79         -40 00         -4.79         Horizontal           10003 00         -45 04         -40 00         -5.04         Horizontal           11499 00         -48 91         -40 00         -9.91         Horizontal           14722 00         -49 26         -40 00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588 00         -50.84         -40.00         -10.84         Vertical           2398 00         -45.28         -40.00         -5.28         Vertical           4870 00         -48.24         -40.00         -8.24         Vertical           4870 00         -48.29         -40.00         -4.87         Vertical           5902 00         -44.87         -40.00         -4.87         Vertical           5902 00         -44.87         -40.00         -4.87         Vertical           7352 00         -44.76         -40.00         -4.76         Vertical           9992 00         -44.84         -40.00         -5.33         Vertical           11037 00         -44.84         -40.00         -7.76         Vertical</td><td>(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00</td><td>Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16</td><td>Limit Line (dB) -40.00 -40.00 -40.00 -40.00 -40.00</td><td>Over Limit (dB) -9.99 -6.61 -10.53 -7.55</td><td>Horizontal Horizontal Horizontal Horizontal Horizontal</td><td></td><td>L</td><td>ΓΕ B48_20M</td><td>1_QPSK_MID</td><td></td></td<>	8991 00         -44 79         -40 00         -4.79         Horizontal           10003 00         -45 04         -40 00         -5.04         Horizontal           11499 00         -48 91         -40 00         -9.91         Horizontal           14722 00         -49 26         -40 00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588 00         -50.84         -40.00         -10.84         Vertical           2398 00         -45.28         -40.00         -5.28         Vertical           4870 00         -48.24         -40.00         -8.24         Vertical           4870 00         -48.29         -40.00         -4.87         Vertical           5902 00         -44.87         -40.00         -4.87         Vertical           5902 00         -44.87         -40.00         -4.87         Vertical           7352 00         -44.76         -40.00         -4.76         Vertical           9992 00         -44.84         -40.00         -5.33         Vertical           11037 00         -44.84         -40.00         -7.76         Vertical	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16	Limit Line (dB) -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55	Horizontal Horizontal Horizontal Horizontal Horizontal		L	ΓΕ B48_20M	1_QPSK_MID	
10003.00         -45.04         -40.00         -5.04         Horizontal           11499.00         -48.91         -40.00         -9.26         Horizontal           14722.00         -49.26         -40.00         -9.26         Horizontal           18009.00         -43.99         -40.00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           (MHz)         -50.84         -40.00         -10.84         Vertical           2388.00         -50.84         -40.00         -5.28         Vertical           3340.00         -45.28         -40.00         -5.28         Vertical           4870.00         -46.99         -40.00         -6.89         Vertical           9902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -4.76         Vertical           9902.00         -44.87         -40.00         -5.33         Vertical           1037.00         -44.42         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -7.76         Vertical	10003 00	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71	-40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55 / -3.71	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal		נ	ΓΕ B48_20M	1_QPSK_MID	
14722.00         -49.26         -40.00         -9.26         Horizontal           16009.00         -43.89         -40.00         -3.89         Horizontal           Frequency (MHz)         Level (dB)         Limit Line (dB)         Over Limit (dB)         Polarization           1588.00         -50.84         -40.00         -10.84         Vertical           2398.00         -45.28         -40.00         -5.28         Vertical           3340.00         -48.24         -40.00         -8.24         Vertical           4870.00         -46.89         -40.00         -4.87         Vertical           5902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9092.00         -44.84         -40.00         -4.84         Vertical           1037.00         -44.42         -40.00         -4.42         Vertical           1037.00         -47.76         -40.00         -7.76         Vertical	14722.00	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04	-40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal		L	ΓΕ B48_20M	1_QPSK_MID	
16009.00	16009.00	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79	Limit Line (dB) -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal		L	ΓΕ B48_20M	1_QPSK_MID	
Frequency (MHz) Level (dB) Limit Line (dB) Over Limit (dB) Polarization    Military   Level (dB)   Limit Line (dB)   Over Limit (dB)   Polarization   Military   Mili	Frequency (MHz) Level (dB) Limit Line (dB) Over Limit (dB) Polarization  // (MHz) Level (dB) Limit Line (dB) Over Limit (dB) Polarization  // (MHz) Level (dB) Limit Line (dB) Polarization  // (MHz) Level (dB) Limit Line (dB) Polarization  // (MHz) Level (dB) Limit Line (dB) Polarization  // (MHz) Line Line Line Line Line Line Line Line	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79	-40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04	Horizontal			ΓΕ B48_20M	1_QPSK_MID	
(MHz) Lever (ob) Limit Line (ob) Vert Limit (ob) Polarization  1588 00 -50 84 -40 00 -10.84 Vertical  2598 00 -45.28 -40 00 -5.28 Vertical  3340 00 -48.24 -40 00 -8.24 Vertical  4870 00 -46.89 -40 00 -6.89 Vertical  5902 00 -44.87 -40 00 -4.87 Vertical  6502 00 -51.25 -40 00 -11.25 Vertical  6502 00 -44.76 -40 00 -4.76 Vertical  9002 00 -45.33 -40 00 -5.33 Vertical  9002 00 -44.84 -40 00 -5.33 Vertical  1037.00 -44.42 -40 00 -4.42 Vertical  11037.00 -44.42 -40 00 -7.76 Vertical	(MHz) Lever (60) Limit Line (63) Over Limit (64) Polarization	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91	Limit Line (dB)  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00	Over Limit (dB) -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91	Horizontal			ΓΕ B48_20M	1_QPSK_MID	
1588 00         -50 84         -40 00         -10 84         Vertical           2398 00         -45 28         -40 00         -5 28         Vertical           3340 00         -48 24         -40 00         -8 24         Vertical           4870 00         -46 89         -40 00         -6 89         Vertical           5902 00         -44 87         -40 00         -4 87         Vertical           6502 00         -51 25         -40 00         -4 76         Vertical           7352 00         -44 76         -40 00         -4 76         Vertical           9992 00         -45 33         -40 00         -5 33         Vertical           9992 00         -44 84         -40 00         -4 84         Vertical           1037 00         -44 42         -40 00         -7 76         Vertical           14722 00         -47 76         -40 00         -7 76         Vertical	1588 00         -50 84         -40 00         -10 84         Vertical           2398 00         -45 28         -40 00         -5 28         Vertical           3340 00         -48 24         -40 00         -8 24         Vertical           4870 00         -48 89         -40 00         -6 89         Vertical           9902 00         -44 87         -40 00         -4 87         Vertical           6502 00         -51 25         -40 00         -4 76         Vertical           7352 00         -44 76         -40 00         -4 76         Vertical           9902 00         -45 33         -40 00         -5 33         Vertical           9992 00         -44 84         -40 00         -4 84         Vertical           11037 00         -44 42         -40 00         -4 42         Vertical           147220         -6 776         -40 00         -7.76         Vertical	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00 14722.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91	-40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91	Horizontal		L	ΓΕ B48_20M	1_QPSK_MID	
3340.00         -48.24         -40.00         -8.24         Vertical           4870.00         -46.89         -40.00         -6.89         Vertical           5902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9902.00         -45.33         -40.00         -5.33         Vertical           1037.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	3340.00	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00 14722.00 16009.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89	Limit Line (dB) -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00 -40.00	Over Limit (dB)  -9 99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89	Horizontal		L	ΓΕ B48_20M	1_QPSK_MID	
4870 00         -46.89         -40.00         -6.89         Vertical           5902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -7.76         Vertical           14722.00         -4.776         -40.00         -7.76         Vertical	4870 00	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00 14722.00 16009.00 requency (MHz)	Level (dB)  -49.99  -46.61  -50.53  -47.55  -47.16  -43.71  -50.04  -44.79  -45.04  -48.91  -49.26  -43.89  Level (dB)	Limit Line (dB)  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  Limit Line (dB)	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB)	Horizontal Porizontal Porizontal		Ľ	ΓΕ B48_20M	1_QPSK_MID	
5902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	5902.00         -44.87         -40.00         -4.87         Vertical           6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 114792.00 16009.00 174722.00 16009.00 16009.00 16009.00 1588.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.28 -49.26 -43.891 -49.26 -43.891 -49.26 -43.891 -49.26 -43.891 -49.26 -43.891 -49.26 -43.891	Limit Line (dB)  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84	Horizontal Orizontal Horizontal Vertical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9902.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	6502.00         -51.25         -40.00         -11.25         Vertical           7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	(MHz) 1840 00 2494 00 3238 00 4066 00 5248 00 6490 00 7352 00 8991 00 11090 00 114722 00 16009 00 requency (MHz) 1588 00 2398 00 3340 00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89 Level (dB) -50.84 -45.28	Limit Line (dB)  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  Limit Line (dB)  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24	Horizontal Vericolal Vertical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	7352.00         -44.76         -40.00         -4.76         Vertical           9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	(MHz) 1840.00 2494.00 3238.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00 14722.00 16009.00 requency (MHz) 1588.00 2398.00 3340.00	Level (dB)  -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89  Level (dB) -50.84 -45.28 -48.24 -46.89	Limit Line (dB) -40.00	Over Limit (dB)  -9 99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89 Over Limit (dB) -10.84 -5.28 -8.24 -6.89	Horizontal Vertical Vertical Vertical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	9002.00         -45.33         -40.00         -5.33         Vertical           9992.00         -44.84         -40.00         -4.84         Vertical           11037.00         -44.42         -40.00         -4.42         Vertical           14722.00         -47.76         -40.00         -7.76         Vertical	(MHz) 1840.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 11499.00 11499.00 11492.00 16009.00 76equency (MHz) 1588.00 2398.00 3340.00 4870.00 5502.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -44.79 -45.04 -48.21 -49.26 -43.89 -50.84 -45.28 -46.28 -46.87	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87	Horizontal Vertical Vertical Vertical Vertical Vertical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
9992.00 -44.94 -40.00 -4.84 Vertical 11037.00 -44.42 -40.00 -4.42 Vertical 14722.00 -47.76 -40.00 -7.76 Vertical	9992.00 -44.94 -40.00 -4.84 Vertical 11037.00 -44.42 -40.00 -4.42 Vertical 14722.00 -47.76 -40.00 -7.76 Vertical	(MHz) 1840 00 2494 00 2494 00 3238 00 4066 00 5248 00 6490 00 7352 00 8891 00 11499 00 114722 00 16009 00 16009 00 1588 00 2388 00 3340 00 4870 00 5602 00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89 -50.84 -45.28 -46.89 -44.87	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -11.25	Horizontal Vertical Vertical Vertical Vertical Vertical Vertical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
11037.00 -44.42 -40.00 -4.42 Vertical 14722.00 -47.76 -40.00 -7.76 Vertical	11037.00 -44.42 -40.00 -4.42 Vertical 14722.00 -47.76 -40.00 -7.76 Vertical	(MHz) 1840 00 2494 00 3238 00 4066 00 5248 00 6490 00 7352 00 8991 00 110003 00 11499 00 14722 00 16009 00 requency (MHz) 1588 00 2398 00 3340 00 4870 00 5902 00 6602 00 7352 00	Level (dB) -49 99 -46.61 -47.16 -47.16 -43.71 -50.04 -44.76 -44.79 -45.04 -48.91 -49.26 -43.89 -48.89	Limit Line (dB)  -40.00	Over Limit (dB)  -9 99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -6.89 -4.87 -11.25 -4.76	Horizontal Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
14722.00 -47.76 -40.00 -7.76 Vertical	14722.00 -47.76 -40.00 -7.76 Vertical	(MHz) 1840.00 2494.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 114722.00 16009.00 76query (MHz) 1588.00 2398.00 3340.00 4870.00 6502.00 7352.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.71 -45.04 -48.91 -49.26 -43.89 -50.84 -45.28 -48.24 -46.89 -44.87 -51.25 -44.76	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -11.25 -4.76 -5.33	Horizontal Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
		(MHz) 1840.00 2494.00 2494.00 2328.00 4066.00 5248.00 6490.00 7352.00 11499.00 14722.00 16009.00 16009.00 16009.00 16009.00 16009.00 16009.00 16009.00 17352.00 17352.00 17352.00	Level (dB) -49 99 -46 61 -50 53 -47 75 -47 16 -43.71 -50 04 -44 79 -45 04 -48 91 -49 26 -43 .89 -44 .89 -44 .87 -50 .84 -44 .87 -51 .25 -44 .76 -45 .33	Limit Line (dB) -40.00	Over Limit (dB)  -9 99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89 Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -111.25 -4.76 -5.33	Horizontal Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
17099.00 -31,35 -40,00 -11,53 venical	17099.00 -01.00 -11.00 Vertical	(MHz) 1840.00 2494.00 2494.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 114722.00 16802.00 17588.00 2398.00 3340.00 44870.00 4870.00 5902.00 9992.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89 -40.89 -44.89 -44.89 -45.28 -48.24 -46.89 -44.87 -45.33 -44.48	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 -/ -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -11.25 -4.76 -5.33 -4.84 -4.42	Horizontal Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
		(MHz) 1840.00 2494.00 2494.00 2494.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 114792.00 16009.00 174722.00 16009.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89 -50.84 -45.24 -46.89 -44.47 -44.47 -44.48 -44.44 -44.44 -47.76	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -11.25 -4.76 -5.33 -4.84 -4.42 -7.76	Horizontal Verical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	
	LTE B48 20M QPSK HIGH /	(MHz) 1840.00 2494.00 2494.00 2494.00 2494.00 3238.00 4066.00 5248.00 6490.00 7352.00 8991.00 10003.00 114792.00 16009.00 174722.00 16009.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00 17592.00	Level (dB) -49.99 -46.61 -50.53 -47.55 -47.16 -43.71 -50.04 -44.79 -45.04 -48.91 -49.26 -43.89 -50.84 -45.24 -46.89 -44.47 -44.47 -44.48 -44.44 -44.44 -47.76	Limit Line (dB)  -40.00	Over Limit (dB)  -9.99 -6.61 -10.53 -7.55 / -3.71 -10.04 -4.79 -5.04 -8.91 -9.26 -3.89  Over Limit (dB) -10.84 -5.28 -8.24 -6.89 -4.87 -11.25 -4.76 -5.33 -4.84 -4.42 -7.76	Horizontal Verical Vertical		Ľ	ΓΕ B48_20M	1_QPSK_MID	

## **END OF REPORT**