Sher 1/F B

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FCC REPORT

Report Reference No.....: CHTEW20090092

Report verification:

Project No.: SHT2008039601EW

FCC ID.....: Q5ET330

Applicant's name.....: Kirisun Communication Co.,Ltd.

Langshan Road, Nanshan District, Shenzhen 518057, P.R.China

Manufacturer..... Kirisun Communication Co.,Ltd.

Langshan Road, Nanshan District, Shenzhen 518057, P.R.China

Test item description: PoC Radio

Trade Mark KIRISUN

Model/Type reference...... T330

Listed Model(s) -

Standard: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 22 FCC CFR Title 47 Part 24 FCC CFR Title 47 Part 27

Date of receipt of test sample...... Aug. 25, 2020

Date of testing...... Aug. 26, 2020- Sep. 15, 2020

Date of issue...... Sep. 16, 2020

Result...... Pass

Compiled by

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

FCC Rules Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

ANSI C63.26: 2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR

CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2020-09-16	Original

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2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer	
	Part 2.1046			
Conducted Output Power	Part 22.913(a)	Pass	Jiongsheng Feng	
Conducted Output I ower	Part 24.232(c)	1 433	Siongsheng reng	
	Part 27.50			
Peak-to-Average Ratio	Part 24.232	Pass	Jiongsheng Feng	
reak-to-Average Natio	Part 27.50	r ass	Jiongsheng Feng	
	Part 2.1049			
99% Occupied Bandwidth & 26 dB	Part 22.917(b)	Pass	Jiongsheng Feng	
Bandwidth	Part 24.238(b)	F 455	Jiongsheng Feng	
	Part 27.53			
	Part 2.1051			
Band Edge	Part 22.917	Pass	Jiongsheng Feng	
Band Edge	Part 24.238	Fass	Jiongsheng reng	
	Part 27.53			
	Part 2.1051			
Conducted Spurious Emissions	Part 22.917	Pass	Jiongsheng Feng	
Conducted Spundus Emissions	Part 24.238	F 455	Jiongsheng Feng	
	Part 27.53			
	Part 2.1055(a)(1)(b)			
Frequency stability VS Temperature	Part 22.355	Pass	Jiongsheng Feng	
requericy stability v3 remperature	Part 24.235	Fass	Jiongsheng Feng	
	Part 27.54			
	Part 2.1055(d)(1)(2)			
Frequency stability VS Voltage	Part 22.355	Pass	Jiongsheng Feng	
l requericy stability vo voltage	Part 24.235	1 055	Jiongsheng reng	
	Part 27.54			
	Part 22.913(a)			
ERP and EIRP	Part 24.232(b)	Pass	Pan Xie	
	Part 27.50			
	Part 2.1053			
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie	
Tradiated Opunious Emissions	Part 24.238	1 033	Pan Ale	
	Part 27.53			

Note: The measurement uncertainty is not included in the test result.

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3. **SUMMARY**

3.1. Client Information

Applicant:	Kirisun Communication Co.,Ltd.
Address:	3rd Floor, Building A, Tongfang Information Habour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China
Manufacturer:	Kirisun Communication Co.,Ltd.
Address:	3rd Floor, Building A, Tongfang Information Habour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China

3.2. Product Description

Name of EUT:	PoC Radio	PoC Radio							
Trade Mark:	KIRISUN	KIRISUN							
Model No.:	T330	T330							
Listed Model(s):	-								
SIM Information:	Support Two SIM Car	d							
Power supply:	DC 3.7V								
Adapter information:	Manufacturer: Shenzhen Ruijing Industrial Co., Ltd. Model: STC-A51A-Z Input: AC100-240V, 50/60Hz, 250mA Output: 5.0Vdc,1000mA								
Hardware version:	V1.0	V1.0							
Software version:	T330_KRS_V1.0								
4G									
Operation Band:			⊠ FDD Band 5						
Transmit frequency:	FDD Band 2: FDD Band 4: FDD Band 5: FDD Band 12: FDD Band 13:	FDD Band 4: 1710.7 MHz – 1754.3 MHz FDD Band 5: 824.7 MHz – 848.3 MHz FDD Band 12: 699.7 MHz – 715.3 MHz							
Receive frequency:	FDD Band 2: FDD Band 4: FDD Band 5: FDD Band 12: FDD Band 13:	MHz MHz Hz Hz Hz							

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	FDD Band 2:	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz			
	FDD Band 4:	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz			
Channel bandwidth:	FDD Band 5:	1.4MHz, 3MHz, 5MHz, 10MHz			
	FDD Band 12:	1.4MHz, 3MHz, 5MHz, 10MHz			
	FDD Band 13:	5MHz, 10MHz			
Power Class:	Class 3				
Modulation type:	QPSK, 16QAM				
Antenna type	PIFA Antenna				
Antenna Gain	Band2:0.5dBi Band4:0.5dBi Band5:0.5dBi				
, and and	Band12:0.5dBi Band13:0.5dBi				

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3.3. Operation state

> Test frequency list

	1					
FDD Band 2	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
	Low Range	5	18625	1852.5	625	1932.5
	Low Range	10	18650	1855	650	1935
		15 ^[1]	18675	1857.5	675	1937.5
	Mid Range	20 [1]	18700	1860	700	1940
	Wild Range	1.4/3/5/10 15 ^[1] /20 ^[1] 1.4	18900 19193	1880 1909.3	900 1193	1960 1989.3
		3	19185	1908.5	1185	1988.5
	1	5	19175	1907.5	1175	1987.5
	High Range	10	19150	1905	1150	1985
		15 ^[1]	19125	1902.5	1125	1982.5
	NOTE 1: Bandwidth		19100	1900	1100	1980
		7] Clause 7.3) is all		cilled OL receiver	sensitivity re	quirement (13
FDD Band 4	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink
		1.4	19957	1710.7	1957	[MHz] 2110.7
	11	3	19957	1710.7	1965	2110.7
		5	19975	1712.5	1975	2112.5
	Low Range	10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
	Mid S	20	20050	1720	2050	2120
	Mid Range	1.4/3/5/10/15/20 1.4	20175 20393	1732.5 1754.3	2175 2393	2132.5 2154.3
	11	3	20393	1753.5	2393	2153.5
	1 †	5	20375	1752.5	2375	2152.5
	High Range	10	20350	1750	2350	2150
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2145
FDD Band 5	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	20407	824.7	2407	869.7
	Low Range	3	20415	825.5	2415	870.5
		5 10 ^[1]	20425 20450	826.5 829	2425 2450	871.5 874
	Att a Danier	1.4/3/5				
	Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
		1.4	20643	848.3	2643	893.3
	High Range	3	20635	847.5	2635	892.5
	-	5 10 ^[1]	20625 20600	846.5 844	2625 2600	891.5 889
	NOTE 1: Bandwidth fo					
		Clause 7.3) is allo				-
FDD Band 12	Table 4.3.1.1.12-1:	•				
	Test Frequency ID	Bandwidth	NuL	Frequency of	N _{DL}	Frequency of
		[MHz] 1.4	23017	Uplink [MHz] 699.7	5017	Downlink [MHz] 729.7
	Low Barra	3	23025	700.5	5025	730.5
	Low Range	5 [1]	23035	701.5	5035	731.5
		10 [1]	23060	704	5060	734
	Mid Range	1.4/3 5 [1]/10 [1]	23095	707.5	5095	737.5
		1.4	23173	715.3	5173	745.3
	High Range	3	23165	714.5	5165	744.5
	g./ rango	5 [1] 10 [1]	23155	713.5	5155	743.5
	NOTE 1: Bandwidth		23130 on of the spe	711	5130 ensitivity rea	741
		[27] Clause 7.3) is		cincu or receiver s	constantly req	an ement
				Frequency of	NDL	Frequency of
FDD Band 13	Test Frequency ID	Bandwidth	NuL			
FDD Band 13	Test Frequency ID	[MHz]		Uplink [MHz]		Downlink [MHz]
FDD Band 13	Test Frequency ID	[MHz] 5 [1]	23205	Uplink [MHz] 779.5	5205	748.5
FDD Band 13	Low Range	[MHz] 5 [1] 10 ^[1]	23205 23230	779.5 782	5230	748.5 751
FDD Band 13	Low Range Mid Range	[MHz] 5 (1) 10 (1) 5 (1)/10 (1) 5 (1)	23205	Uplink [MHz] 779.5		748.5
FDD Band 13	Low Range Mid Range High Range	[MHz] 5 (1) 10 (1) 5 (1)/10 (1) 5 (1) 10 (1)	23205 23230 23230 23255 23230	779.5 782 782 784.5 782	5230 5230 5255 5230	748.5 751 751 753.5 751
FDD Band 13	Low Range Mid Range High Range NOTE 1: Bandwidti	[MHz] 5 (1) 10 (1) 5 (1)/10 (1) 5 (1) 10 (1) h for which a relaxat	23205 23230 23230 23255 23230 ion of the spe	779.5 782 782 784.5 782	5230 5230 5255 5230	748.5 751 751 753.5 751
FDD Band 13	Low Range Mid Range High Range NOTE 1: Bandwidti	[MHz] 5 (1) 10 (1) 5 (1)/10 (1) 5 (1) 10 (1)	23205 23230 23230 23255 23230 ion of the spe	779.5 782 782 784.5 782	5230 5230 5255 5230	748.5 751 751 753.5 751

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3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. Testing was performed by configuring EUT to maximum output power status.

The Test EUT support two SIM card(SIM1,SIM2),so all the tests are performed at each SIM card (SIM1,SIM2) mode, the datum recorded is the worst case for all the mode at SIM1 Card mode.

T12	D- 1			Bandwid	th (MHz)			Modu	ulation		RB#	
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
	2	0	0	0	0	0	0	0	0	0	0	0
Conducted Output Power Peak-to-Average Ratio 99% Occupied Bandwidth & 26 dB Bandwidth Band Edge	4	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	-	-	0	0	0	0	0
	12	0	0	0	0	-	-	0	0	0	0	0
	13	-	-	0	0	-	-	0	0	0	0	0
Ratio 99% Occupied	2	0	0	0	0	0	0	0	0	0	-	0
	4	0	0	0	0	0	0	0	0	0	-	0
	5	0	0	0	0	-	-	0	0	0	-	0
	12	0	0	0	0	-	-	0	0	0	-	0
	13	-	-	0	0	-	-	0	0	0	-	0
	2	0	0	0	0	0	0	0	0	-	-	0
Bandwidth & 26	4	0	0	0	0	0	0	0	0	-	-	0
	5	0	0	0	0	-	-	0	0	-	-	0
ab Bandwidth	12	0	0	0	0	-	-	0	0	0	-	0
	13	-	-	0	0	-	-	0	0	-	-	0
	2	0	0	0	0	0	0	0	0	0	-	0
	4	0	0	0	0	0	0	0	0	0	-	0
Band Edge	5	0	0	0	0	-	-	0	0	0	-	0
	12	0	0	0	0	-	-	0	0	0	-	0
	13	-	-	0	0	-	-	0	0	0	-	0
	2	0	0	0	0	0	0	0	0	0	-	-
Conducted	4	0	0	0	0	0	0	0	0	0	-	-
	5	0	0	0	0	-	-	0	0	0	-	-
·	12	0	0	0	0	-	-	0	0	0	-	-
Spurious Emission	13	-	-	0	0	-	-	0	0	0	-	-
	2	0	0	0	0	0	0	0	0	-	-	0
Frequency	4	0	0	0	0	0	0	0	0	-	-	0
Stability	5	0	0	0	0	-	-	0	0	-	-	0
	12	0	0	0	0	-	-	0	0	-	-	0
Frequency	13	-	-	0	0	-	-	0	0	-	-	0
	2	0	0	0	0	0	0	0	0	0	-	-
	4	0	0	0	0	0	0	0	0	0	-	-
ERP and EIRP	5	0	0	0	0	-	-	0	0	0	-	-
	12	0	0	0	0	-	-	0	0	0	-	-
	13	-	-	0	0	-	-	0	0	0	-	-
	2	0	0	0	0	0	0	0	0	0	-	-
Radiated Spurious	4	0	0	0	0	0	0	0	0	0	-	-
Emission	5	0	0	0	0	-	-	0	0	0	-	-
	12	0	0	0	0	-	-	0	0	0	-	-
	13	-	-	0	0	-	-	0	0	0	-	-
Remark	2. The	e mark "-" e device i der differe	means th s investig	at this ba atedfrom e/offset a	ndwidth is 30MHz to	on is chos s not test o10 times lations in	offundar	mental signa	al for radiate sequently, o	d spuriou only the w	s emissio orst case	n test

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3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

supplied by the manufacturer

-	oupplied by the manade	••
0	 supplied by the lab 	

0		Manufacturer:	/
0	/	Model No.:	1
	1	Manufacturer:	/
0		Model No.:	/

3.6. Modifications

No modifications were implemented to meet testing criteria.

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4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

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4.3. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2019/10/26	2020/10/25
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2019/10/26	2020/10/25
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spu	rious Emission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equipment									
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)			
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2019/10/23	2020/10/22			
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A			

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4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.70V		
Voltage	VL=Lower Voltage	DC 3.60V		
	VH=Higher Voltage	DC 4.20V		
Tomporoturo	TN=Normal Temperature	25 °C		
Temperature	Extreme Temperature	From −30° to + 50° centigrade		
Humidity	30~60 %			
Air Pressure	950-1050 hPa			

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz	(1)
readiated sparious emissions	3.44dB for >1GHz	(1)
Occupied Pandwidth	15Hz for <1GHz	(1)
Occupied Bandwidth	70Hz for >1GHz	(1)
Erequency error	15Hz for <1GHz	(1)
Frequency error	70Hz for >1GHz	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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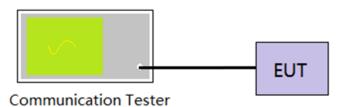
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

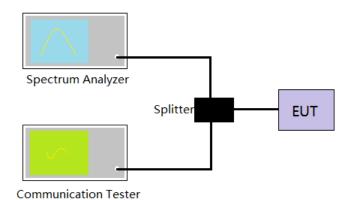
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5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix B on the section 8 appendix report

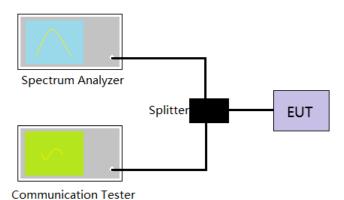
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

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5.4. Band Edge

LIMIT

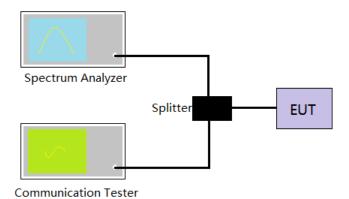
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P) dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P) dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P) dB$ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST CONFIGURATION



TEST PROCEDURE

- The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- 4. Spectrum analyzer setting as follow:
 - RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
- 5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

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5.5. Conducted Spurious Emissions

LIMIT

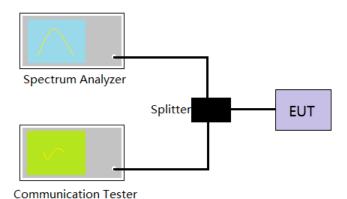
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

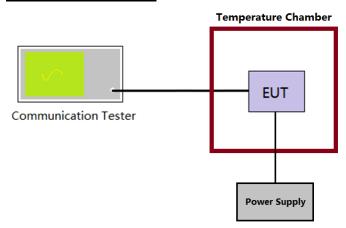
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5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

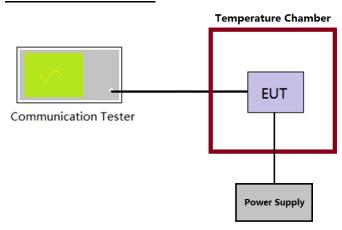
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5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

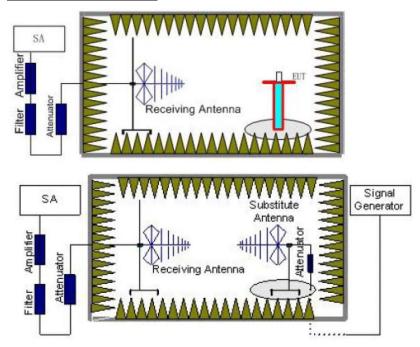
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5.8. ERP and EIRP

LIMIT

LTE Band 2: 2W(33dBm) EIRP LTE Band 4: 1W(30dBm) EIRP LTE Band 5: 7W(38.50dBm) ERP LTE Band 12: 3W(34.77dBm) ERP LTE Band 13: 30W(44.77dBm) ERP

TEST CONFIGURATION



TEST PROCEDURE

- Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

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c) Return the turntable to the azimuth where the highest emission amplitude level was observed.

- d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
- e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near
 as possible to where the center of the EUT radiating element was located during the initial EUT
 measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) -2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

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LTE Band 2-1.4MHz								
Modulation	Channel	EIRP (dBm)		Limit (dDm)	Daniell			
Wodulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	20.80	18.53					
QPSK	Mid	21.23	18.48	700.00	PASS			
	High	20.85	18.47					
	Low	20.63	18.44	- ≤33.00				
16QAM	Mid	21.12	18.68		PASS			
	High	20.70	18.31					

LTE Band 2-3MHz							
Modulation	Channel	EIRP	(dBm)	Limit (dBm)	Result		
iviodulation	Chamilei	Vertical	Horizontal	Limit (dbin)			
	Low	20.67	18.45				
QPSK	Mid	21.28	18.36	400.00	PASS		
	High	20.90	18.50				
	Low	20.47	18.26	≤33.00			
16QAM	Mid	20.84	18.38		PASS		
	High	20.59	18.36				

LTE Band 2-5MHz							
Modulation	EI EI		(dBm)	Lineit (dDay)	Danielle		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.68	18.41				
QPSK	Mid	21.02	18.45	200.00	PASS		
	High	20.75	18.63				
	Low	20.69	18.66	≤33.00			
16QAM	Mid	20.91	18.28		PASS		
	High	20.49	18.34				

LTE Band 2-10MHz							
Modulation	Channel	EIRP (dBm)		Limit (dPm)	D !!		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.86	18.32	700.00			
QPSK	Mid	21.24	18.53		PASS		
	High	20.66	18.44				
	Low	21.01	18.76	≤33.00			
16QAM	Mid	21.31	18.70		PASS		
	High	20.65	18.44				

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LTE Band 2-15MHz							
Modulation	Channel	EIRP (dBm)		L' '(/ ID)	D !!		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.72	18.36				
QPSK	Mid	21.15	18.52		PASS		
	High	20.91	18.40				
	Low	20.50	18.44				
16QAM	Mid	20.93	18.33		PASS		
	High	20.62	18.19				

LTE Band 2-20MHz							
Modulation	Channel	EIRP	(dBm)	Limit (dDm)	Result		
Modulation	Chamei	Vertical	Horizontal	Limit (dBm)			
	Low	20.64	18.33	222.00			
QPSK	Mid	20.99	18.30		PASS		
	High	20.67	18.65				
	Low	20.37	18.45	≤33.00			
16QAM	Mid	20.68	18.24		PASS		
	High	20.62	18.24				

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LTE Band 4-1.4MHz							
Modulation	Channel	EIRP (dBm)		Limit (dDm)	D !!		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	21.20	18.10	700.00			
QPSK	Mid	21.53	18.70		PASS		
	High	20.62	18.18				
	Low	21.06	18.02	- ≤30.00			
16QAM	Mid	21.40	18.81		PASS		
	High	20.47	18.02				

	LTE Band 4-3MHz							
Modulation	EIRP ((dBm)	Limit (dPm)	Desuit			
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	21.10	18.04					
QPSK	Mid	21.57	18.61	220.00	PASS			
	High	20.66	18.20					
	Low	20.94	17.88	≤30.00 				
16QAM	Mid	21.24	18.64		PASS			
	High	20.39	18.07					

	LTE Band 4-5MHz							
Modulation	Channal	EIRP (dBm)		Limit (dDm)	Daniell			
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	21.13	18.02	200.00	PASS			
QPSK	Mid	21.38	18.69					
	High	20.50	18.26					
	Low	21.15	18.26	≤30.00 	PASS			
16QAM	Mid	21.27	18.54					
	High	20.29	18.01					

	LTE Band 4-10MHz									
Modulation	Channel	EIRP	(dBm)	Limit (dPm)	Result					
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result					
	Low	21.23	17.91							
QPSK	Mid	21.54	18.74		PASS					
	High	20.49	18.19	<20.00						
	Low	21.34	18.26	≤30.00						
16QAM	Mid	21.52	18.81		PASS					
	High	20.46	18.15							

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LTE Band 4-15MHz									
Madulatian	Channal	EIRP (dBm)		Limeit (dDms)	- I				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.12	17.94						
QPSK	Mid	21.53	18.78	100.00	PASS				
	High	20.67	18.12						
	Low	20.95	18.02	≤30.00					
16QAM	Mid	21.37	18.64		PASS				
	High	20.41	17.93						

	LTE Band 4-20MHz									
Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result					
iviodulation	Chamilei	Vertical	Horizontal	Lillii (dbill)	Result					
	Low	21.06	17.93							
QPSK	Mid	21.35	18.56	≤30.00	PASS					
	High	20.49	18.36							
	Low	20.86	18.07							
16QAM	Mid	21.13	18.54		PASS					
	High	20.44	17.99							

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LTE Band 5-1.4MHz									
Modulation	Channal	ERP (dBm)		Limit (dDm)	Dooult				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.60	18.25						
QPSK	Mid	22.48	18.74	100.50	PASS				
	High	21.20	18.50						
	Low	21.48	18.18	≤38.50 					
16QAM	Mid	22.39	18.85		PASS				
	High	21.12	18.41						

LTE Band 5-3MHz									
Madulatian	Channel	ERP (dBm)		Limit (dDm)	Result				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.55	18.23						
QPSK	Mid	22.44	18.62		PASS				
	High	21.29	18.57	<20 F0					
	Low	21.40	18.09	≤38.50					
16QAM	Mid	22.24	18.69		PASS				
	High	21.10	18.51						

	LTE Band 5-5MHz									
Modulation	Channel	ERP	(dBm)	Limit (dDm)	Popult					
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result					
	Low	21.53	18.18							
QPSK	Mid	22.27	18.65	400.50	PASS					
	High	21.17	18.63							
	Low	21.58	18.39	≤38.50						
16QAM	Mid	22.21	18.56		PASS					
	High	20.98	18.40							

	LTE Band 5-10MHz									
Modulation	Channal	ERP (dBm)		Limit (dDm)	Result					
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result					
	Low	21.62	18.11							
QPSK	Mid	22.48	18.76		PASS					
	High	21.17	18.58	<20 F0						
	Low	21.67	18.34	≤38.50						
16QAM	Mid	22.43	18.79		PASS					
	High	21.15	18.57							

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LTE Band 12-1.4MHz									
Modulation	Channel	ERP (dBm)		Limit (dBm)	Result				
iviodulation	Chamilei	Vertical	Horizontal	Limit (ubin)	Nesull				
	Low	21.45	19.44						
QPSK	Mid	22.02	20.06		PASS				
	High	21.50	19.53	<04.77					
	Low	21.33	19.36	≤34.77					
16QAM	Mid	21.93	20.09		PASS				
	High	21.43	19.45						

LTE Band 12-3MHz									
Modulation	Channel	ERP	ERP (dBm)		Popult				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.40	19.41						
QPSK	Mid	22.05	20.01	10.4.77	PASS				
	High	21.52	19.54						
	Low	21.28	19.29	≤34.77					
16QAM	Mid	21.84	20.00		PASS				
	High	21.39	19.47						

LTE Band 12-5MHz									
Madulatian	Channel	ERP (dBm)		Limit (dPm)	Result				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.38	19.37						
QPSK	Mid	21.91	20.03		PASS				
	High	21.46	19.59	<04.77					
	Low	21.43	19.55	- ≤34.77					
16QAM	Mid	21.88	19.97		PASS				
	High	21.33	19.45						

	LTE Band 12-10MHz								
Modulation	Channel	ERP (dBm)		Limit (dPm)	Result				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	21.44	19.31						
QPSK	Mid	22.02	20.07	≤34.77	PASS				
	High	21.45	19.55						
	Low	21.46	19.47						
16QAM	Mid	22.01	20.12		PASS				
	High	21.45	19.56						

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LTE Band 13-5MHz									
Modulation	Channel	ERP	(dBm)	Limit (dPm)	Result				
Wodulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	20.92	18.12						
QPSK	Mid	21.79	18.71		PASS				
	High	21.05	17.82	-44.77					
	Low	20.81	18.05	<44.77					
16QAM	Mid	21.70	18.83		PASS				
	High	20.93	17.70						

LTE Band 13-10MHz									
Modulation	Channel	ERP	(dBm)	Limit (dBm)	Result				
iviodulation	Chamer	Vertical	Horizontal		Resuit				
QPSK	Mid	21.88	18.66	44.77	PASS				
16QAM	Mid	21.54	18.64	<44.77	PASS				

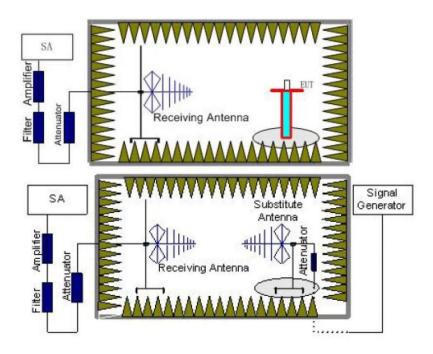
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5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/12/13: -13dBm;

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal

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and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

- Set-up the substitution measurement with the reference point of the substitution antenna located as near
 as possible to where the center of the EUT radiating element was located during the initial EUT
 measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) -2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note: only show the worse case for QPSK modulation.

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LTE Band 2-1.4MHz								
Channal	Frequency	Spurious I	Emission	Lineit (dDne)	Desuit			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3701.4	Vertical	-34.45					
	5552.1	V	-39.37	≤-13.00	Pass			
Low	7402.8	V	-42.21					
LOW	3701.4	Horizontal	-36.06					
	5552.1	Н	-41.07	≤-13.00	Pass			
	7402.8	Н	-42.86					
	3760	Vertical	-33.48		Pass			
	5640	V	-38.52	≤-13.00				
Mid	7520	V	-41.32					
IVIIU	3760	Horizontal	-35.28					
	5640	Н	-39.87	≤-13.00	Pass			
	7520	Н	-42.23					
	3818.6	Vertical	-32.59					
	5727.9	V	-37.42	≤-13.00	Pass			
∐iah	7637.2	V	-39.86					
High	3818.6	Horizontal	-33.84					
	5727.9	Н	-39.05	≤-13.00	Pass			
	7637.2	Н	-41.74					

LTE Band 2-3MHz							
Channal	Frequency	Spurious I	Emission	Limpit (dDms)	Dooult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3703	Vertical	-32.06				
	5554.5	V	-36.75	≤-13.00	Pass		
Low	7406	V	-39.54				
LOW	3703	Horizontal	-33.59				
	5554.5	Н	-38.51	≤-13.00	Pass		
	7406	Н	-41.12				
	3760	Vertical	-31.45	≤-13.00	Pass		
	5640	V	-36.21				
Mid	7520	V	-38.98				
iviiu	3760	Horizontal	-33.10				
	5640	Н	-37.75	≤-13.00	Pass		
	7520	Н	-40.73				
	3817	Vertical	-30.89				
	5725.5	V	-35.52	≤-13.00	Pass		
High	7634	V	-38.06				
riigii	3817	Horizontal	-32.19				
	5725.5	Н	-37.23	≤-13.00	Pass		
	7634	Н	-40.42				

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LTE Band 2-5MHz							
Ohamal	Frequency	Spurious	Emission	Limit (dDms)	D It		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3705	Vertical	-30.36				
	5557.5	V	-34.85	≤-13.00	Pass		
Low	7410	V	-37.74				
Low	3705	Horizontal	-31.94				
	5557.5	Н	-36.69	≤-13.00	Pass		
	7410	Н	-39.80				
	3760	Vertical	-29.75		Pass		
	5640	V	-34.31	≤-13.00			
Mid	7520	V	-37.18				
iviid	3760	Horizontal	-31.45				
	5640	Н	-35.93	≤-13.00	Pass		
	7520	Н	-39.41				
	3815	Vertical	-29.19				
	5722.5	V	-33.62	≤-13.00	Pass		
∐iah	7630	V	-36.26				
High	3815	Horizontal	-30.54				
	5722.5	Н	-35.41	≤-13.00	Pass		
	7630	Н	-39.10				

LTE Band 2-10MHz								
Channal	Frequency	Spurious Emission		Lineit (dDne)	D !			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3710	Vertical	-28.86					
	5565	V	-33.20	≤-13.00	Pass			
Low	7420	V	-36.06					
LOW	3710	Horizontal	-30.38					
	5565	Н	-35.07	≤-13.00	Pass			
	7420	Н	-38.71					
	3760	Vertical	-28.47		Pass			
	5640	V	-32.86	≤-13.00				
Mid	7520	V	-35.71					
IVIIU	3760	Horizontal	-30.07					
	5640	Н	-34.59	≤-13.00	Pass			
	7520	Н	-38.46					
	3810	Vertical	-28.12					
	5715	V	-32.42	≤-13.00	Pass			
High	7620	V	-35.13					
riigii	3810	Horizontal	-29.50					
	5715	Н	-34.27	≤-13.00	Pass			
	7620	Н	-38.27					

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	LTE Band 2-15MHz							
Oh a a a a l	Frequency	Spurious	Emission	Limit (-ID)	D 1			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3715	Vertical	-27.64					
	5572.5	V	-31.82	≤-13.00	Pass			
Low	7430	V	-34.84					
LOW	3715	Horizontal	-29.27					
	5572.5	Н	-33.78	≤-13.00	Pass			
	7430	Н	-37.70					
	3760	Vertical	-27.08		Pass			
	5640	V	-31.33	≤-13.00				
Mid	7520	V	-34.33					
IVIIU	3760	Horizontal	-28.82					
	5640	Н	-33.10	≤-13.00	Pass			
	7520	Н	-37.34					
	3805	Vertical	-26.57					
	5707.5	V	-30.71	≤-13.00	Pass			
Lliah	7610 V -33.50							
High	3805	Horizontal	-28.00		_			
	5707.5	Н	-32.63	≤-13.00	Pass			
	7610	Н	-37.06					

LTE Band 2-20MHz							
Channel	Frequency	Spurious I	Emission	Limit (dDm)	Dogult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3720	Vertical	-26.27				
	5580	V	-30.33	≤-13.00	Pass		
Low	7440	V	-33.32				
LOW	3720	Horizontal	-27.86				
	5580	Н	-32.32	≤-13.00	Pass		
	7440	Н	-36.70				
	3760	Vertical	-25.92				
	5640	V	-30.02	≤-13.00	Pass		
Mid	7520	V	-33.00				
IVIIU	3760	Horizontal	-27.58				
	5640	Н	-31.89	≤-13.00	Pass		
	7520	Н	-36.48				
	3800	Vertical	-25.60				
	5700	V	-29.63	≤-13.00	Pass		
High	7600	V	-32.48				
riigii	3800	Horizontal	-27.06				
	5700	Н	-31.60	≤-13.00	Pass		
	7600	Н	-36.31				

Remark:

- Remark"---" means that the emission level is too low to be measured The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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LTE Band 4-1.4MHz								
Channal	Frequency	Spurious I	Emission	Lineit (dDne)	Desuit			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3421.4	Vertical	-33.85					
	5132.1	V	-43.02	≤-13.00	Pass			
Low	6842.8	V	-44.83					
LOW	3421.4	Horizontal	-34.76					
	5132.1	Н	-42.40	≤-13.00	Pass			
	6842.8	Н	-44.41					
	3465	Vertical	-33.06		Pass			
	5197.5	V	-42.36	≤-13.00				
Mid	6930	V	-44.15					
IVIIU	3465	Horizontal	-34.16					
	5197.5	Н	-41.48	≤-13.00	Pass			
	6930	Н	-43.93					
	3508.6	Vertical	-32.38					
	5262.9	V	-41.52	≤-13.00	Pass			
High	7017.2	V	-43.02					
riigii	3508.6	Horizontal	-33.05					
	5262.9	Н	-40.85	≤-13.00	Pass			
	7017.2	Н	-43.55					

LTE Band 4-3MHz							
Channal	Frequency	Spurious I	Emission	Lineit (dDne)	Decult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3423	Vertical	-31.97				
	5134.5	V	-41.01	≤-13.00	Pass		
Low	6846	V	-42.78				
Low	3423	Horizontal	-32.86				
	5134.5	Н	-40.44	≤-13.00	Pass		
	6846	Н	-43.07				
	3465	Vertical	-31.50		Pass		
	5197.5	V	-40.60	≤-13.00			
Mid	6930	V	-42.35				
IVIIU	3465	Horizontal	-32.48				
	5197.5	Н	-39.86	≤-13.00	Pass		
	6930	Н	-42.77				
	3507	Vertical	-31.07				
	5260.5	V	-40.07	≤-13.00	Pass		
Lliah	7014	V	-41.64				
High	3507	Horizontal	-31.78				
	5260.5	Н	-39.46	≤-13.00	Pass		
	7014	Н	-42.53				

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	LTE Band 4-5MHz							
Channal	Frequency	Spurious I	Emission	Limeit (dDms)	Daguit			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3425	Vertical	-30.59					
	5137.5	V	-39.28	≤-13.00	Pass			
Low	6850	V	-41.37					
LOW	3425	Horizontal	-31.35					
	5137.5	Н	-38.98	≤-13.00	Pass			
	6850	Н	-41.92					
	3465	Vertical	-29.94	≤-13.00	Pass			
	5197.5	V	-38.71					
Mid	6930	V	-40.78					
iviid	3465	Horizontal	-30.83					
	5197.5	Н	-38.18	≤-13.00	Pass			
	6930	Н	-41.50					
	3505	Vertical	-29.35					
	5257.5	V	-37.98	≤-13.00	Pass			
∐iah	7010	V	-39.80					
High	3505	Horizontal	-29.86					
	5257.5	Н	-37.63	≤-13.00	Pass			
	7010	Н	-41.17					

	LTE Band 4-10MHz							
Channal	Frequency	Spurious	Emission	Limit (dDm)	D !!			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	3430	Vertical	-29.00					
	5145	V	-37.53	≤-13.00	Pass			
Low	6860	V	-39.59					
LOW	3430	Horizontal	-29.69					
	5145	Н	-37.27	≤-13.00	Pass			
	6860	Н	-40.75					
	3465	Vertical	-28.59		Pass			
	5197.5	V	-37.17	≤-13.00				
Mid	6930	V	-39.22					
iviid	3465	Horizontal	-29.36					
	5197.5	Н	-36.76	≤-13.00	Pass			
	6930	Н	-40.49					
	3500	Vertical	-28.22					
	5250	V	-36.71	≤-13.00	Pass			
∐iah	7000	V	-38.60					
High	3500	Horizontal	-28.75					
	5250	Н	-36.41	≤-13.00	Pass			
	7000	Н	-40.28					

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LTE Band 4-15MHz							
Ob a made	Frequency	Spurious Emission		Limit (dDms)			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3435	Vertical	-27.95				
	5152.5	V	-36.20	≤-13.00	Pass		
Low	6870	V	-38.42				
Low	3435	Horizontal	-28.31				
	5152.5	Н	-36.09	≤-13.00	Pass		
	6870	Н	-39.86				
	3465	Vertical	-27.52		Pass		
	5197.5	V	-35.83	≤-13.00			
Mid	6930	V	-38.03				
iviid	3465	Horizontal	-27.97				
	5197.5	Н	-35.56	≤-13.00	Pass		
	6930	Н	-39.59				
	3495	Vertical	-27.13				
	5242.5	V	-35.35	≤-13.00	Pass		
Lligh	6990	V	-37.39				
High	3495	Horizontal	-27.61				
	5242.5	Н	-34.82	≤-13.00	Pass		
	6990	Н	-39.38				

	LTE Band 4-20MHz						
Channal	Frequency	Spurious	Emission	Lineit (dDne)	Daguit		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	3440	Vertical	-26.90				
	5160	V	-35.06	≤-13.00	Pass		
Low	6880	V	-37.25				
Low	3440	Horizontal	-27.37				
	5160	Н	-34.58	≤-13.00	Pass		
	6880	Н	-39.11				
	3465	Vertical	-26.63		Pass		
	5197.5	V	-34.82	≤-13.00			
Mid	6930	V	-37.00				
IVIIG	3465	Horizontal	-27.15		Pass		
	5197.5	Н	-34.25	≤-13.00			
	6930	Н	-38.94				
	3490	Vertical	-26.38				
	5235	V	-34.52	≤-13.00	Pass		
∐iah	6980	V	-36.60		ļ		
High	3490	Horizontal	-26.75		_		
	5235	Н	-34.02	≤-13.00	Pass		
	6980	Н	-38.81				

Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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LTE Band 5-1.4MHz						
Channel	Frequency	Spurious	Emission	Limit (dDm)		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1649.4	Vertical	-32.50			
	2474.1	V	-41.47	≤-13.00	Pass	
Low	3298.8	V	-43.24			
LOW	1649.4	Horizontal	-33.80			
	2474.1	Н	-41.82	≤-13.00	Pass	
	3298.8	Н	-43.54			
	1673	Vertical	-32.25		Pass	
	2509.5	V	-41.06	≤-13.00		
Mid	3346	V	-42.79			
IVIIG	1673	Horizontal	-33.24		Pass	
	2509.5	Н	-41.51	≤-13.00		
	3346	Н	-43.20			
	1696.6	Vertical	-31.85			
	2544.9	V	-40.53	≤-13.00	Pass	
∐iah	3393.2	V	-42.25			
High	1696.6	Horizontal	-32.71			
	2544.9	Н	-41.21	≤-13.00	Pass	
	3393.2	Н	-43.02			

LTE Band 5-3MHz						
Channal	Frequency	Spurious	Emission	Limit (dDm)	5	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1651	Vertical	-31.60			
	2476.5	V	-40.21	≤-13.00	Pass	
Low	3302	V	-42.10			
LOW	1651	Horizontal	-32.59			
	2476.5	Н	-40.95	≤-13.00	Pass	
	3302	Н	-42.72			
	1673	Vertical	-31.30	≤-13.00	Pass	
	2509.5	V	-39.95			
Mid	3346	V	-41.83			
iviid	1673	Horizontal	-32.35		Pass	
	2509.5	Н	-40.58	≤-13.00		
	3346	Н	-42.53			
	1695	Vertical	-31.03			
	2542.5	V	-39.62	≤-13.00	Pass	
High	3390	V	-41.38			
riigii	1695	Horizontal	-31.91			
	2542.5	Н	-40.33	≤-13.00	Pass	
	3390	Н	-42.38			

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LTE Band 5-5MHz						
Channal	Frequency	Spurious Emission		Limit (dDm)	5 "	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1653	Vertical	-30.70			
	2479.5	V	-39.07	≤-13.00	Pass	
Low	3306	V	-41.19			
LOW	1653	Horizontal	-31.61			
	2479.5	Н	-40.00	≤-13.00	Pass	
	3306	Н	-41.96			
	1673	Vertical	-30.24		Pass	
	2509.5	V	-38.67	≤-13.00		
Mid	3346	V	-40.78			
iviid	1673	Horizontal	-31.24		Pass	
	2509.5	Н	-39.44	≤-13.00		
	3346	Н	-41.67			
	1693	Vertical	-29.83			
	2539.5	V	-38.16	≤-13.00	Pass	
Ligh	3386	V	-40.10			
High	1693	Horizontal	-30.57			
	2539.5	Н	-39.06	≤-13.00	Pass	
	3386	Н	-41.44			

LTE Band 5-10MHz						
Channal	Frequency	Spurious I	Emission	Lineit (dDne)	5 "	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1658	Vertical	-29.58			
	2487	V	-37.85	≤-13.00	Pass	
Low	3316	V	-39.95			
LOW	1658	Horizontal	-30.45			
	2487	Н	-38.81	≤-13.00	Pass	
	3316	Н	-41.15			
	1673	Vertical	-29.29		Pass	
	2509.5	V	-37.60	≤-13.00		
Mid	3346	V	-39.69			
iviiu	1673	Horizontal	-30.22		Pass	
	2509.5	Н	-38.46	≤-13.00		
	3346	Н	-40.97			
	1688	Vertical	-29.03			
	2532	V	-37.28	≤-13.00	Pass	
Lligh	3376	V	-39.26			
High	1688	Horizontal	-29.79			
	2532	Н	-38.22	≤-13.00	Pass	
	3376	Н	-40.83			

Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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LTE Band 12-1.4MHz						
Channel	Frequency	Spurious	Emission	Lineit (dDne)	5	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1399.4	Vertical	-31.31			
	2099.1	V	-41.64	≤-13.00	Pass	
Low	2798.8	V	-41.99			
LOW	1399.4	Horizontal	-32.60			
	2099.1	Н	-41.91	≤-13.00	Pass	
	2798.8	Н	-42.24			
	1415	Vertical	-30.62		Pass	
	2122.5	V	-40.80	≤-13.00		
Mid	2830	V	-41.46			
IVIIU	1415	Horizontal	-31.66		Pass	
	2122.5	Н	-41.15	≤-13.00		
	2830	Н	-41.69			
	1430.6	Vertical	-29.89			
	2145.9	V	-40.03	≤-13.00	Pass	
High	2861.2	V	-40.64			
riigii	1430.6	Horizontal	-31.02			
	2145.9	Н	-40.66	≤-13.00	Pass	
	2861.2	Н	-41.10			

LTE Band 12-3MHz						
Channal	Frequency	Spurious	Emission	Lineit (dDne)		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1401	Vertical	-29.52			
	2101.5	V	-39.56	≤-13.00	Pass	
Low	2802	V	-40.42			
Low	1401	Horizontal	-30.84			
	2101.5	Н	-40.28	≤-13.00	Pass	
	2802	Н	-40.66			
	1415	Vertical	-29.09	≤-13.00	Pass	
	2122.5	V	-39.18			
Mid	2830	V	-40.03			
IVIIG	1415	Horizontal	-30.49		Pass	
	2122.5	Н	-39.75	≤-13.00		
	2830	Н	-40.38			
	1429	Vertical	-28.70			
	2143.5	V	-38.70	≤-13.00	Pass	
Lligh	2858	V	-39.38			
High	1429	Horizontal	-29.85			
	2143.5	Н	-39.39	≤-13.00	Pass	
	2858	Н	-40.16			

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LTE Band 12-5MHz						
Ob a mad	Frequency	Spurious	Emission	Limit (dDm)	Danult	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1403	Vertical	-28.34			
	2104.5	V	-38.11	≤-13.00	Pass	
Low	2806	V	-39.18			
Low	1403	Horizontal	-29.53			
	2104.5	Н	-39.03	≤-13.00	Pass	
	2806	Н	-39.71			
	1415	Vertical	-27.85		Pass	
	2122.5	V	-37.68	≤-13.00		
Mid	2830	V	-38.74			
iviid	1415	Horizontal	-29.14		Pass	
	2122.5	Н	-38.43	≤-13.00		
	2830	Н	-39.40			
	1427	Vertical	-27.41			
	2140.5	V	-37.13	≤-13.00	Pass	
∐iah	2854	V	-38.01			
High	1427	Horizontal	-28.42			
	2140.5	Н	-38.02	≤-13.00	Pass	
	2854	Н	-39.16			

LTE Band 12-10MHz						
Channal	Frequency	Spurious I	Emission	Lineit (dDne)	Dooult	
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1408	Vertical	-27.15			
	2112	V	-36.80	≤-13.00	Pass	
Low	2816	V	-37.85			
LOW	1408	Horizontal	-28.29			
	2112	Н	-37.75	≤-13.00	Pass	
	2816	Н	-38.85			
	1415	Vertical	-26.84		Pass	
	2122.5	V	-36.53	≤-13.00		
Mid	2830	V	-37.57			
IVIIU	1415	Horizontal	-28.04		Pass	
	2122.5	Н	-37.37	≤-13.00		
	2830	Н	-38.65			
	1422	Vertical	-26.56			
	2133	V	-36.18	≤-13.00	Pass	
High	2844	V	-37.11			
riigri	1422	Horizontal	-27.59			
	2133	Н	-37.11	≤-13.00	Pass	
	2844	Н	-38.50			

Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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LTE Band 13-5MHz						
Channal	Frequency	Spurious I	Emission	Lineit (dDne)		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	1559	Vertical	-30.93			
	2338.5	V	-37.49	≤-13.00	Pass	
Low	3118	V	-40.25			
LOW	1559	Horizontal	-34.90			
	2338.5	Н	-41.61	≤-13.00	Pass	
	3118	Н	-42.26			
	1564	Vertical	-30.68	≤-13.00		
	2346	V	-36.95		Pass	
Mid	3128	V	-39.95			
IVIIU	1564	Horizontal	-34.61		Pass	
	2346	Н	-41.09	≤-13.00		
	3128	Н	-41.50			
	1569	Vertical	-30.32			
	2353.5	V	-36.26	≤-13.00	Pass	
∐iah	3138	V	-39.55			
High	1569	Horizontal	-34.33		Pass	
	2353.5	Н	-40.21	≤-13.00		
	3138	Н	-40.31			

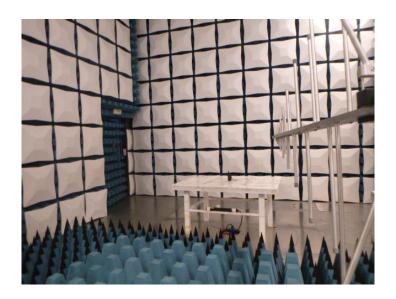
LTE Band 13-10MHz						
Channel	Frequency	Spurious Emission		Lineit (dDae)	Desuit	
Chame	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
	Vertical	Vertical	-29.93			
	V	V	-35.92	<-13.00	Pass	
Mid	V	V	-39.20			
iviid	Horizontal	Horizontal	-34.02			
	Н	Н	-39.73	<-13.00	Pass	
	Н	Н	-40.06			

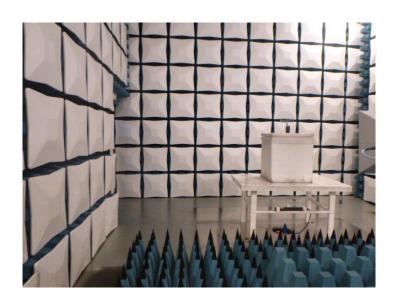
Remark:

- 1. Remark"---" means that the emission level is too low to be measured
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report

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6. TEST SETUP PHOTOS OF THE EUT





7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refere to the test report No.: CHTEW20090091

8. APPENDIX REPORT