

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100984

SPECTRUM REPORT

(UMTS)

Applicant: Nebra LTD.

Address of Applicant: Unit 4 Bells Yew Green Business Court, Bells Yew Green,

Tunbridge Wells TN3 9BJ United Kingdom

Equipment Under Test (EUT)

Product Name: Nebra Smart Outdoor LoRa Gateway / Nebra HNT Outdoor

Hotspot Miner

Model No.: HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-LT+,

HNTOUT-868-G, HNTOUT-868-LT, HNTOUT-868

Trade mark: Nebra

Applicable standards: ETSI EN 301 908-1 V13.1.1 (2019-11)

ETSI EN 301 908-2 V11.1.2 (2017-08)

Date of sample receipt: 31 May, 2021

Date of Test: 31 May, to 08 Jul., 2021

Date of report issued: 09 Jul., 2021

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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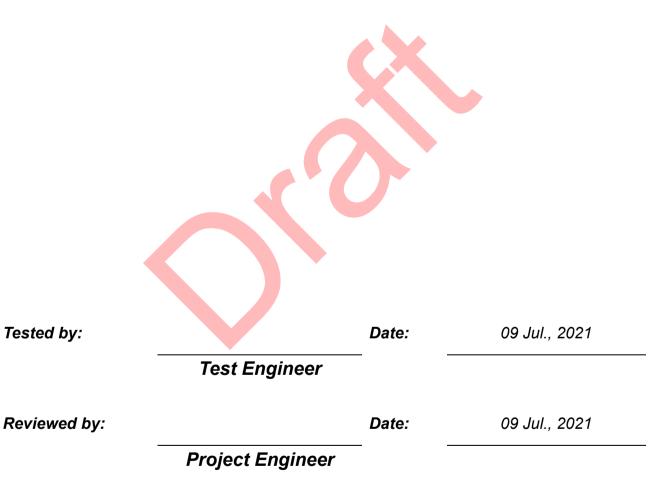




Version

Tested by:

Version No.	Date	Description
00	09 Jul., 2021	Original







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4 Test Summary

Test Requirement	Test method	Result
ETSI EN 301 908-2 section 4.2.2	ETSI EN 301 908-2 section 5.3.1	Pass*
ETSI EN 301 908-2 section 4.2.3	ETSI EN 301 908-2 section 5.3.2	Pass*
ETSI EN 301 908-2 section 4.2.4	ETSI EN 301 908-2 section 5.3.3	Pass*
ETSI EN 301 908-2 section 4.2.5	ETSI EN 301 908-2 section 5.3.4	Pass*
ETSI EN 301 908-2 section 4.2.12	ETSI EN 301 908-2 section 5.3.11	Pass*
ETSI EN 301 908-2 section 4.2.11	ETSI EN 301 908-2 section 5.3.10	Pass*
ETSI EN 301 908-2 section 4.2.6	ETSI EN 301 908-2 section 5.3.5	Pass*
ETSI EN 301 908-2 section 4.2.7	ETSI EN 301 908-2 section 5.3.6	Pass*
ETSI EN 301 908-2 section 4.2.8	ETSI EN 301 908-2 section 5.3.7	Pass*
ETSI EN 301 908-2 section 4.2.9	ETSI EN 301 908-2 section 5.3.8	Pass*
ETSI EN 301 908-2 section 4.2.10	ETSI EN 301 908-2 section 5.3.9	Pass*
ETSI EN 301 908-2 section 4.2.13	ETSI EN 301 908-2 section 5.3.12	Pass*
ETSI EN 301 908-1 Section 4.2.2	ETSI EN 301 908-1 Section 5.3.1	Pass
ETSI EN 301 908-1 Section 4.2.4	ETSI EN 301 908-1 Section 5.3.3	Pass*
	ETSI EN 301 908-2 section 4.2.3 ETSI EN 301 908-2 section 4.2.4 ETSI EN 301 908-2 section 4.2.5 ETSI EN 301 908-2 section 4.2.12 ETSI EN 301 908-2 section 4.2.11 ETSI EN 301 908-2 section 4.2.11 ETSI EN 301 908-2 section 4.2.6 ETSI EN 301 908-2 section 4.2.7 ETSI EN 301 908-2 section 4.2.7 ETSI EN 301 908-2 section 4.2.8 ETSI EN 301 908-2 section 4.2.9 ETSI EN 301 908-2 section 4.2.9 ETSI EN 301 908-2 section 4.2.10 ETSI EN 301 908-2 section 4.2.13 ETSI EN 301 908-1 Section 4.2.2 ETSI EN 301 908-1	ETSI EN 301 908-2 section 4.2.2 ETSI EN 301 908-2 section 5.3.1 ETSI EN 301 908-2 section 4.2.3 ETSI EN 301 908-2 section 5.3.2 ETSI EN 301 908-2 section 4.2.4 ETSI EN 301 908-2 section 5.3.3 ETSI EN 301 908-2 section 4.2.5 ETSI EN 301 908-2 section 5.3.4 ETSI EN 301 908-2 section 5.3.4 ETSI EN 301 908-2 section 5.3.11 ETSI EN 301 908-2 section 5.3.10 ETSI EN 301 908-2 section 5.3.10 ETSI EN 301 908-2 section 5.3.5 ETSI EN 301 908-2 section 5.3.5 ETSI EN 301 908-2 section 5.3.6 ETSI EN 301 908-2 section 5.3.7 ETSI EN 301 908-2 section 5.3.7 ETSI EN 301 908-2 section 5.3.8 ETSI EN 301 908-2 section 5.3.8 ETSI EN 301 908-2 section 5.3.9 ETSI EN 301 908-2 section 5.3.9 ETSI EN 301 908-2 section 5.3.12 ETSI EN 301 908-1 Section 5.3.1 ETSI EN 301 908-1 Section 5.3.1 ETSI EN 301 908-1 Section 5.3.1

Remark:

Pass: The EUT complies with the essential requirements in the standard. PASS*: Refer to the Report No.: Refer to the Report No.: HR/2019/1001402

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5 General Information

5.1 Client Information

Applicant:	Nebra LTD.
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ United Kingdom
Manufacturer:	Nebra LTD.
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ United Kingdom
Factory:	SUNSOAR TECH CO., LIMITED
Address:	4/F, Block E, Fengze Building, Huafeng No.2 Industrial Park, Hangkong Road, XiXiang Town, BaoAn District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Nebra Sma	rt Outdoor LoRa Gateway / Nebra HNT Outdoor Hotspot				
	Miner	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Model No.:		HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-LT+, HNTOUT-868-G, HNTOUT-868-LT, HNTOUT-868				
Transmitter frequency range:	Band I:	1920 M <mark>Hz</mark> ~198 <mark>0 MH</mark> z				
	Band VIII:	880 MHz~915 MHz				
	Band V:	824 MHz~849 MHz				
Receiver frequency range:	Band I:	2110 MHz~2170 MHz				
	Band VIII:	925 MHz~960 MHz				
	Band V:	869 MHz~894 MHz				
Hardware version:	V01-16- <mark>20</mark> 2	1-1820				
Software version:	4dc8745					
Modulation type:	⊠RMC(QP	SK) ⊠ HSDPA(QPSK,16QAM) ⊠ HSUPA(QPSK)				
Antenna Type:	External and	tenna				
Antenna Gain:	Band I: 2.39 dBi (declare by Applicant)					
	Band VIII: 1.99 dBi (declare by Applicant)					
	Band V: 1.75 dBi (declare by Applicant)					
Power supply:	AC: AC 230V / 50Hz POE: DC48V					
AC adapter:	LT+, HNTO we will offe with the GP number. Fo no GPS. A We offer the standard (n Pi Compute a -LT+ varia with a 32 G to the mode provide cu connectivity	HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-UT-868-G, HNTOUT-868-LT, HNTOUT-868 The difference: In the unit with or without a GPS module included. Models of S Included are indicated with a -G on the end of the model or example a unit with model no HNTOUT-868 is 868 Mhz, unit with Model No HNTOUT-868-G, is 915Mhz with GPS. In the unit using the Raspberry Pi Compute Module 3+ 32GB by the o suffix) but have an -LT variant which uses the Raspberry Pi Module 3 Lite with a 32 GB eMMC to SD adapter card and ant which uses the Raspberry Pi Compute Module 3+ Lite B eMMC to SD adapter card. These suffixes can be applied also both with and without GPS as described above. We also astomers the ability to, optionally, add both cellular and an additional 8 channel LoRa gateway to any of these using an mPCle module however these come as optional				



5.3 Test environment and mode, and test samples plans

Operating Environment	Operating Environment:					
Temperature:	Normal: 15°C ~ 35°C, Extreme: -20°C ~ +55°C					
Humidity:	20 % ~ 75 % RH					
Atmospheric Pressure:	1008 mbar					
Voltage:	POE: Nominal: 48Vdc, Extreme: Low 44Vdc, High 53Vdc					
Test mode:						
RMC mode	Keep the EUT communication with simulated station in RMC mode					
HSDPA mode	Keep the EUT communication with simulated station in HSDPA mode					
HSUPA mode	Keep the EUT communication with simulated station in HSUPA mode					
Vote:						
 All the test environments and 	test modes required following ETSI TS 134 121-1 and ETSI EN 301 908-2.					

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545
Simulated Station	Rohde & Schwarz	CMU200	122477

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radio Frequency	±1.2 *10 ⁻⁹
RF Power, Conducted	±0.64 dB
Spurious emission, Conducted	±1.18 dB
Temperature	±0.3 °C
Voltage	±0.1 %
Humidity	±2 %
Time	±10 %
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

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Project No.: JYTSZE2105125



5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

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Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emissio	Radiated Emission:									
Test Equipment	Manufacturer	Model No.	Model No. Serial No.		Cal. Due date (mm-dd-yy)					
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024					
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022					
Biconical Antenna	CCHWA DZDECK	\/LID \ 0447	250	06-18-2020	06-17-2021					
biconical Antenna	SCHWARZBECK	VUBA9117 359		06-17-2021	06-16-2022					
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022					
Horn Antenna	SCHWARZBECK	BBHA9120D	1005	06-18-2020	06-17-2021					
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-17-2021	06-16-2022					
EMI Test Software	AUDIX	E3	V	Version: 6.110919b						
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022					
Pre-amplifier	CD	PAP-1G18	11804 03-03-2021		03-02-2022					
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021						
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022					
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022					
Signal Generator	Rohde & Schwarz	SMR20	1008100050	03-03-2021	03-02-2022					
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022					
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022					
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022					
RF Switch Unit	MWRFTEST	MW200	N/A N/A N/A		N/A					
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0						

Conducted method:							
Test Equipment	Manufacturer	er Model No. Serial No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-16-2020	11-15-2021		
Vector Signal Generator	Agilent	N5182A	MY49060014	11-16-2020	11-15-2021		
Signal Generator	Rohde & Schwarz	Rohde & Schwarz SMR20 10		03-03-2021	03-02-2022		
Simulated Station	Rohde & Schwarz	CMW500	140493	06-18-2020	06-17-2021		
Simulated Station	Ronde & Schwarz	CIVIVV500	140493	06-18-2021	06-17-2022		
RF Control Box	MWRF-test	MW200-RFCB	MW201013JYT	N/A	N/A		
Automatic Filter Box	MWRF-test	MW200-SFCB	MW201019JYT	N/A	N/A		
Test Software	MWRF-test	MTS8200		Version: 2.0.0.0			
DC Power Supply	ver Supply XinNuoEr WYK-10020K 140905		1409050110020	09-23-2020	09-22-2021		
Temperature Humidity Chamber	Zhongzhi	CZ-C-150D	ZH16491	09-23-2020	09-22-2021		

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6 Radio Technical Requirements Specification in ETSI EN 301 908-1/-2

6.1 Justification

The EUT and test equipment were configured for testing according to ETSI EN 301 908-2 V11.1.1 (2016-07) and ETSI TS 134 121-1.

The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

The EUT was tested with a dummy battery.

6.2 Test Configuration of EUT

1	WCDMA Band	l b	WCDMA Band VIII			
Channel Number Frequ		Frequency (MHz)	Channel Number		Frequency (MHz)	
Low channel	9612	1922.4	Low channel	2712	882.4	
Middle channel 9750 1950.0		Middle channel	2788	897.6		
High channel	9888	1977.6	High channel	2863	912.6	

Clause	Test Conditions			Test Channel			Test Modes				
No.	NTNV	LTLV	LTHV	HTLV	HTHV	Low	Middle	High	RMC	HSDPA	HSUPA
4.2.2	√	√	√	√	√	√	\checkmark	1	√	√	V
4.2.3	\checkmark					√	1	1	\checkmark	√	$\sqrt{}$
4.2.4	√					V	V	V	V		
4.2.5	\checkmark			$\sqrt{}$	\checkmark		\ \		$\sqrt{}$		
4.2.6	\checkmark						1		$\sqrt{}$		
4.2.7	\checkmark						7		$\sqrt{}$		
4.2.8	\checkmark						1		$\sqrt{}$		
4.2.9	\checkmark						\checkmark		$\sqrt{}$		
4.2.10	\checkmark						\checkmark		$\sqrt{}$		
4.2.11	\checkmark						\checkmark		$\sqrt{}$		
4.2.12	\checkmark	√	V	1	V	√	\checkmark	V	V	V	
4.2.13	√	√	√	1	\vee	√	√	√	√		

Note:

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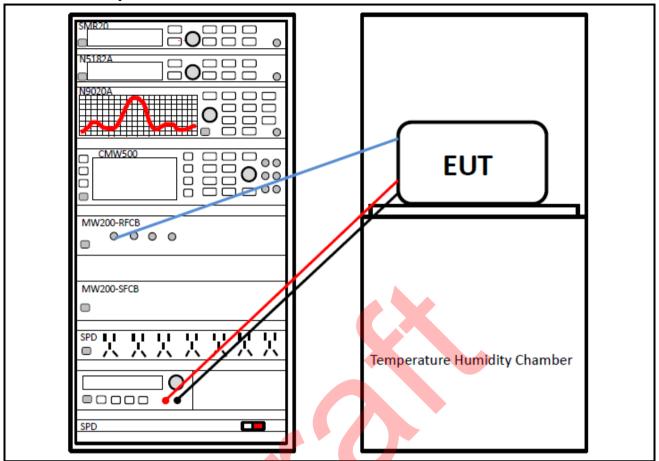
^{1. &}quot; $\sqrt{}$ " means that this configuration is chosen for test.

^{2. &}quot;NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.





6.3 Test Setup Block







6.4 Test Results

6.4.1 Test Result Summary

			Test Band		
Clause No.	Test Mode	Test Condition	WCDMA Band I, VIII, V		
			Test Data	Verdict	
		Requiren	nents in EN 301 908-2		
4.2.2		NTNV		Pass	
		LTLV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
	RMC	LTHV		Pass	
		HTLV		Pass	
		HTHV		Pass	
	RMC	NTNV		Pass	
4.2.3	HSDPA	NTNV	Refer to the Report No.: Refer to the	Pass	
	HSUPA	NTNV	Report No.: HR/2019/1001402	Pass	
4.2.4	RMC	NTNV		Pass	
		NTNV		Pass	
		LTLV	Pefer to the Penert No : Defer to the	Pass	
4.2.5	RMC	LTHV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
		HTLV] Nepolt No PR/2019/1001402	Pass	
		HTHV		Pass	
4.2.6	RMC	NTNV		Pass	
4.2.7	RMC	NTNV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
4.2.8	RMC	NTNV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
4.2.9	RMC	NTNV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
4.2.10	RMC	NTNV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
4.2.11	RMC	NTNV	See Section 6.4.4	Pass	
		NTNV		Pass	
	RMC	LTLV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
		LTHV		Pass	
		HTLV		Pass	
		HTHV		Pass	
	HSDPA	NTNV		Pass	
		LTLV	Refer to the Report No.: Refer to the	Pass	
4.2.12		LTHV	Report No.: HR/2019/1001402	Pass	
		HTLV		Pass	
		HTHV		Pass	
	HSUPA	NTNV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
		LTLV		Pass	
		LTHV		Pass	
		HTLV		Pass	
		HTHV		Pass	
		NTNV		Pass	
	RMC	LTLV	Pofor to the Papart No : Pofor to the	Pass	
4.2.13		LTHV	Refer to the Report No.: Refer to the Report No.: HR/2019/1001402	Pass	
		HTLV		Pass	
		HTHV		Pass	
			nents in EN 301 908-1		
4.2.2	RMC	NTNV	See Section 6.4.5	Pass	
4.2.4	RMC	NTNV	See Section 6.4.6	Pass	

"NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.





6.4.2 Radiated spurious emissions

	The Middle ch	annel-WCDMA 2	2100 mode-Traffic mode	
Frequency (MHz)	Spurious Emission		Limit (dPm)	Test Result
	polarization	Level(dBm)	Limit (dBm)	rest Result
623.93	Vertical	-58.35		
720.16	V	-57.92	00 ID	
3900.00	V	-62.32	-36 dBm	
5850.00	V	-56.37	below 1GHz,	Daga
320.03	Horizontal	-58.48	-30 dBm	Pass
660.99	Н	-58.40	above 1GHz.	
3900.00	Н	-62.85	above rgriz.	
5850.00	Н	-56.57		
	The Middle ch	annel-WCDMA 2	100 mode-Idle mode	
Frequency (MHz)	Spurious Emission		Limit (dDm)	Took Doould
	polarization	Level(dBm)	Limit (dBm)	Test Result
623.93	Vertical	-58.10	-57dBm below 1GHz, -47dBm above 1GHz.	Pass
720.16	V	-58.88		
3900.00	V	-60.94		
5850.00	V	-61.95		
320.03	Horizontal	-58.67		
660.99	Н	-58.56		
3900.00	Н	-62.48		
5850.00	Н	-63.65		

	The Middle channel- WCDMA 900 mode- Traffic mode						
Frequency (MHz)	Spurious Emission		Limit (dRm)	Test Result			
	polarization	Level(dBm)	Limit (dBm)	rest Result			
623.93	Vertical	-58.13					
720.16	V	-58.32	00 dD				
1795.20	V	-62.69	-36 dBm				
2692.80	V	-56.82	below 1GHz,	Door			
320.03	Horizontal	-58.69	-30 dBm	Pass			
660.99	Н	-58.12	above 1GHz.				
1795.20	Н	-63.04	above 1GHz.				
2692.80	Н	-56.86					
The Middle channel- WCDMA 900 mode - Idle mode							
Francis (MII-)	Spurious Emission		Limit (dDm)	Took Dooule			
Frequency (MHz)	polarization	Level(dBm)	Limit (dBm)	Test Result			
623.93	Vertical	-58.19					
720.16	V	-58.80	E3D				
1795.20	V	-61.33	-57Bm				
2692.80	V	-62.41	below 1GHz,	Door			
320.03	Horizontal	-59.14	-47Bm	Pass			
660.99	Н	-58.54	above 1GHz.				
1795.20	Н	-62.43	above 1G112.				
2692.80	Н	-63.75					





The Middle channel- WCDMA 850 mode- Traffic mode								
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result				
	polarization	Level(dBm)	Lillit (dBill)	rest ivesuit				
623.93	Vertical	-58.80						
720.16	V	-58.41	00 dD					
1673.30	V	-61.94	-36 dBm					
2509.50	V	-55.89	below 1GHz,	Pass				
320.03	Horizontal	-58.10	-30 dBm	Pass				
660.99	Н	-57.97	above 1GHz.					
1673.30	Н	-63.05	above 1GHz.					
2509.50	Н	-56.61						
	The Middle channel- WCDMA 850 mode - Idle mode							
Eroguopov (MUz)	Spurious Emission		Limit (dBm)	Toot Booult				
Frequency (MHz)	polarization	Level(dBm)	Limit (dBm)	Test Result				
623.93	Vertical	-58.75						
720.16	V	-58.39	F.7.D.					
1673.30	V	-62.07	-57Bm					
2509.50	V	-56.07	below 1GHz,	Pass				
320.03	Horizontal	-58.05	-47Bm	rass				
660.99	Н	-58.39	above 1GHz.					
1673.30	Н	-63.01	above 19112.					
2509.50	Н	-56.20	M ' T					





7 Test Setup Photo









8 EUT Constructional Details

Reference to the test report No. JYTSZB-R01-2100336

----- End of report -----



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