# **FCC RF Test Report**

APPLICANT : Veea Inc.

**EQUIPMENT**: Wireless Edge Server

BRAND NAME : VeeaHub
MODEL NAME : VHC25-5G

FCC ID : 2ARXK-VHC25-5G STANDARD : 47 CFR Part 90(S)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Jul. 23, 2024 ~ Jul. 31, 2024

This product installed a RF module (Brand Name: Quectel, Model Name: RM520N-GL, FCC ID: XMR2022RM520NGL) during the test, only Conducted Power and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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



Approved by: Jason Jia





Report No.: FG452231G

### Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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Report Template No.: BU5-FWLTE Version 2.0

# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG452231G	Rev. 01	Initial issue of report	Sep. 18, 2024

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#### SUMMARY OF TEST RESULT

Report FCC Rule		Description	Limit	Result	Remark	
3.1	§2.1046	Conducted Output Power	_	Report only	-	
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	_		1	
-	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log <sub>10</sub> (P[Watts])	PASS	1	
-	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log <sub>10</sub> (P[Watts])	PASS	1	
3.2	§2.1053 §90.691	Field Strength of Spurious  Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 50.24 dB at 3258.000 MHz	
-	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	1	

Remark 1: All test results were leveraged from module RF report which can refer to Report No "SEWA2204000008RG01".

#### **Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or
  in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
  non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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### 1 General Description

### 1.1 Applicant

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

#### 1.2 Manufacturer

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

### 1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Wireless Edge Server
Brand Name	VeeaHub
Model Name	VHC25-5G
FCC ID	2ARXK-VHC25-5G
IMEI Code	Radiation: 868371051683288
HW Version	1.0
SW Version	2.33.1-0.mfg.alpha.4.0.7
EUT Stage	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	23.76 dBm						
Antenna Gain	<ant 0="">: 1.47 dBi</ant>						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM						

#### 1.5 Modification of EUT

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

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### 1.6 Maximum Conducted Power and Emission Designator

LTE	Band 26	QPSK	16QAM/64QAM/256QAM			
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)			
1.4	814.7 ~ 823.3	0.2307	0.1884			
3	815.5 ~ 822.5	0.2328	0.1884			
5	816.5 ~ 821.5	0.2312	0.1866			
10	819.0	0.2377	0.1928			
15	824	0.2371	0.1897			

Note: All modulations have been tested, and only the worst test results are shown in the report.

### 1.7 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)								
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595								
Test Site No.	Sporton Site No.	FCC Designation N	lo.	FCC Regist					
	TH01-SZ	CN1256		4:	21272	2			

Test Firm	Sporton International Inc. (	Sporton International Inc. (ShenZhen)								
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985									
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.							
	03CH03-SZ	CN1256	421272							

#### 1.8 Test Software

Item Site		Manufacture	Name	Version	
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24a	

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### 1.9 Applied Standards

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

- 47 CFR 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

#### Remark:

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

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### 2 Test Configuration of Equipment Under Test

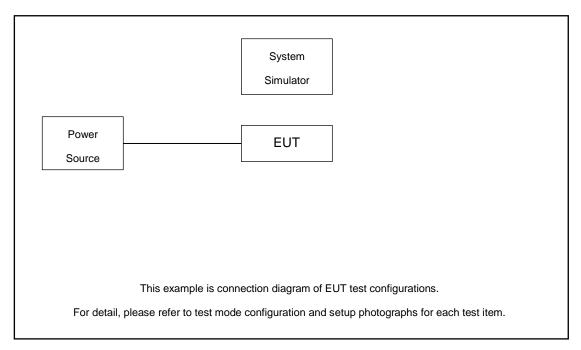
#### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

		Bandwidth (MHz)			Modulation			RB#			Test Channel						
Test Items	Band	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	Н
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	٧	v	<b>^</b>	v	v	v
Radiated Spurious Emission	26			v	v	v	-	v				v				v	
Note	<ol> <li>The</li> <li>LTE over special</li> <li>For</li> </ol>	mark Band2 15MH ctrum v QAM r	"-" mea 26 tran Iz ban which t	ans tha smit fr dwidth falls wi	at this equen comp thin pa	bandw cy for lies the art 22 a	idth is part22 e ERP also co	n is cho not sup rule is & limit line omplies. ting has	ported. 324MHz e of par	-849Ml 22 rule	, therefo	ore E	ERP o	f the p	artial fr	equenc	;y

### 2.2 Connection Diagram of Test System



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### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord		
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m		
2.	LTE Base Station	Anritsu	MT8821C	Fcc DoC	N/A	Shielded, 1.5m		

### 2.4 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
40	Channel	-	26740	-					
10	Frequency	-	819	-					
E	Channel	26715	26740	26765					
5	Frequency	816.5	819	821.5					
2	Channel	26705	26740	26775					
3	Frequency	815.5	819	822.5					
4 4	Channel	26697	26740	26783					
1.4	Frequency	814.7	819	823.3					

	LTE Band 26 Cross-rule Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	-	Middle	-					
45	Channel	-	26790	-					
15	Frequency	-	824	-					
40	Channel	-	26790	-					
10	Frequency	-	824	-					
5	Channel	-	26790	-					
5	Frequency	-	824	-					
2	Channel	-	26790	-					
3	Frequency	-	824	-					
1.4	Channel	-	26790	-					
1.4	Frequency	-	824	-					

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#### 3 Test Result

### 3.1 Conducted Output Power Measurement

#### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

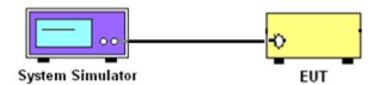
#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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#### 3.2 Field Strength of Spurious Radiation Measurement

#### 3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3 Test Procedures

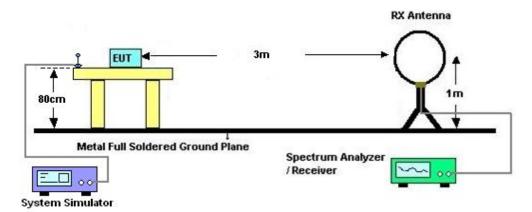
- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position 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.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, 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. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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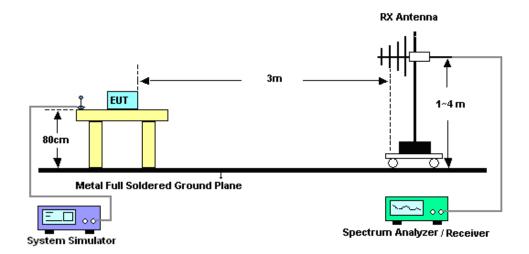
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#### 3.2.4 Test Setup

#### For radiated test from 30MHz

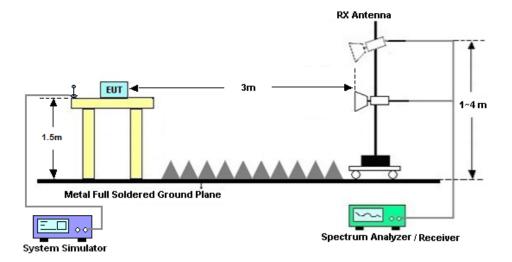


#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



#### 3.2.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jul. 31, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jul. 31, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Jul. 23, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Jul. 23, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jul. 23, 2024	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jul. 23, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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### 5 Measurement Uncertainty

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

#### **Uncertainty of Conducted Measurement**

Test Item	Uncertainty		
Conducted Power	±1.34 dB		

#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	.2 O AB
Confidence of 95% (U = 2Uc(y))	±3.0 dB

#### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of	±3.6 dB
Confidence of 95% (U = 2Uc(y))	±3.0 UB

#### **Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	±3.8 dB
--	---	---------

----- THE END -----

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# **Appendix A. Test Results of Conducted Test**

Test Engineer :	LiongHuoCong	Temperature :	24~26°C	
	LiangHuaCong	Relative Humidity :	50~53%	

# **Conducted Output Power (Average power)**

#### LTE Band 26\_Part 90S:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Chani	nel	On. 71 Teq.	26790	On: 711cq.	
	Frequency				824	
15	QPSK	1	0		23.75	
15	QPSK	1	74		23.63	
15	QPSK	75	0		22.68	
15	16QAM	1	0		22.78	
15	64QAM	1	0		21.76	
15	256QAM	1	0		18.81	
	Chani	nel			26740	
	Frequency	(MHz)			819	
10	QPSK	1	0		23.76	
10	QPSK	1	49		23.56	
10	QPSK	50	0		22.67	
10	16QAM	1	0		22.85	
10	64QAM	1	0		21.81	
10	256QAM	1	0		18.84	
	Chani	nel		26715	26740	26765
	Frequency	(MHz)		816.5	819	821.5
5	QPSK	1	0	23.61	23.56	23.64
5	16QAM	1	0	22.69	22.71	22.67
	Chanı	nel		26705	26740	26775
	Frequency	(MHz)		815.5	819	822.5
3	QPSK	1	0	23.64	23.67	23.61
3	16QAM	1	0	22.68	22.72	22.75
	Chanı	nel	26697	26740	26783	
	Frequency	(MHz)		814.7	819	823.3
1.4	QPSK	1	0	23.55	23.56	23.63
1.4	16QAM	1	0	22.66	22.74	22.75

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# **Appendix B. Test Results of Radiated Test**

# Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
	Zhaonui Liang	Relative Humidity :	48~52%

	LTE Band 26 / 5MHz / QPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1633.5	-67.70	-13	-54.70	-74.01	-70.95	4.00	9.40	Н		
	2450.25	-65.38	-13	-52.38	-75.78	-68.95	4.88	10.60	Н		
	3267	-63.86	-13	-50.86	-76.52	-68.79	5.52	12.60	Н		
	1633.5	-67.57	-13	-54.57	-73.88	-70.82	4.00	9.40	V		
	2450.25	-63.83	-13	-50.83	-74.61	-67.40	4.88	10.60	V		
	3267	-63.53	-13	-50.53	-76.69	-68.46	5.52	12.60	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 10MHz / QPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1629	-67.79	-13	-54.79	-74.11	-71.04	4.00	9.40	Н		
	2443.5	-64.64	-13	-51.64	-75.06	-68.21	4.88	10.60	Н		
Middle	3258	-63.75	-13	-50.75	-76.48	-68.68	5.52	12.60	Н		
Middle	1629	-67.92	-13	-54.92	-74.28	-71.17	4.00	9.40	V		
	2443.5	-63.57	-13	-50.57	-74.37	-67.14	4.88	10.60	V		
	3258	-63.24	-13	-50.24	-76.49	-68.17	5.52	12.60	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 15MHz / QPSK										
Channel	Frequency (MHz)	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1634.4	-66.44	-13	-53.44	-72.75	-69.61	4.10	9.42	Н		
	2451.74	-64.77	-13	-51.77	-75.16	-68.35	4.90	10.63	Н		
Lliab	3269	-63.69	-13	-50.69	-76.33	-68.61	5.55	12.62	Н		
High	1634.4	-66.75	-13	-53.75	-73.05	-69.92	4.10	9.42	V		
	2451.74	-64.54	-13	-51.54	-75.31	-68.12	4.90	10.63	V		
	3269	-63.38	-13	-50.38	-76.52	-68.30	5.55	12.62	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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