

Report No.: FG2N1103-04C



FCC RADIO TEST REPORT

FCC ID : XMR2021EM05G2

Equipment : LTE Module

Brand Name : Quectel Wireless Solutions Co., Ltd.

Model Name : EM05-G

Applicant : Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016

Tianlin Road, Minhang District, Shanghai, China, 20023

Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.

No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics & Technology Development Area, Anhui, CHINA

Standard : FCC 47 CFR Part 2, 90(R)

Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

The product was received on May 11, 2023 and testing was performed from May 22, 2023 to May 25, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Wu

Sporton International Inc. Wensan Laboratory

Report Version

: 01

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Report Template No.: BU5-FGLTE90R Version 2.4

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History of this test report

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Report No.	Version	Description	Issue Date
FG2N1103-04C	01	Initial issue of report	Jun. 05, 2023

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
-	-	- Peak-to-Average Ratio Not Require		-
-	§2.1049 Occupied Bandwidth		Not Required	-
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	Not Required	-
-	§2.1051 §90.210 (n)	Emission Mask	Not Required	-
-	§2.1053 §90.543 (e)(3) Conducted Spurious Emission		Not Required	-
-	§2.1055 Frequency Stability - §90.539 (e) Temperature & Voltage		Not Required	-
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	3.54 dB under the limit at 1576.000 MHz

Note:

- 1. Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by host changing Marketing name, Model name, CPU and Motherboard. All the
 test cases were performed on original report which can be referred to Sporton Report Number
 FG2N1103C. Based on the original report, only worst cases were verified.

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.

Reviewed by: Sheng Kuo Report Producer: Clio Lo

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1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature						
Equipment	LTE Module						
Brand Name	Quectel Wireless Solutions Co., Ltd.						
Model Name	EM05-G						
FCC ID	XMR2021EM05G2						
Sample 1	EUT with Host 1						
Sample 2	EUT with Host 2						
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS						
EUT Stage	Production Unit						

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Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00135C) during test, and the host information was recorded in the following table.

Host Information						
Host 1 Host with Amphenol Taiwan Corporation Antenna						
Host 2 Host with Speed Antenna						

WWAN Antenna Information for Host								
	Manufacturer	AMPHENOL TAIWAN CORPORATION	Peak gain (dBi)	LTE Band 14: 0.00				
Main Antenna	Part number	DC33001YA00	Туре	PIFA				
	Manufacturer	Speed	Peak gain (dBi)	LTE Band 14: 0.00				
	Part number	DC33001Y900	Туре	PIFA				

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency	LTE Band 14 :790.5 MHz ~ 795.5 MHz					
Rx Frequency	LTE Band 14 :760.5 MHz ~ 765.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	24.35 dBm					
Type of Modulation	QPSK / 16QAM					

1.3 Modification of EUT

No modifications made to the EUT during the testing.

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1.4 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory				
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333				
Test Site No.	Sporton Site No.				
rest Site No.	TH03-HY (TAF Code: 1190)				
Test Engineer	Cotty Hsu				
Temperature (°C)	22.1~22.8				
Relative Humidity (%)	53~55				
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory				

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Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010	
Test Site No.	Sporton Site No.	
rest site No.	03CH16-HY	
Test Engineer	Hao Qun, Gary Guo and Steven Wu	
Temperature (°C)	20~25	
Relative Humidity (%)	50~65	

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

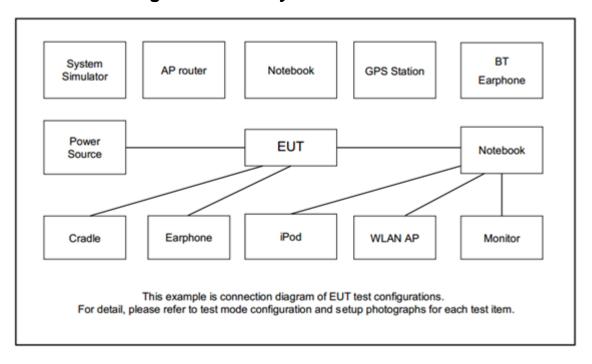
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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Conducted	Dand		Bandwidth (MHz)		Modulation		RB#			Test Channel					
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	Н
Max. Output Power	14	1	1	٧	v	1	-	٧	v	v			٧	٧	v
E.R.P	14	,	-	v	v	-	-	v	٧	Max. Power					
Radiated Spurious Emission	14	-	-	v	v	-	-	v		v			v	v	٧
Remark	2. Th 3. Th sp St	ne mar ne devi ourious ubsequ	k "-" m ce is ir emiss iently,	eans the nvestige ion testion to the contraction testing the contraction to the contracti	nat this ated fro t under e worst	bandv om 30l different t case	vidth is MHz to ent RB emissio	not supp 10 times size/offs ons are re	of fundaret and mo	menta dula	tions i	n exp			i.

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Lenovo	TS300-01MS21-8S	N/A	Unshielded, 1.2 m	N/A

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2.4 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List									
BW [MHz] Channel/Frequency(MHz) Lowest Middle Highest									
10	Channel	-	23330	-					
10	Frequency	-	793	-					
E	Channel	23305	23330	23355					
5	Frequency	790.5	793	795.5					

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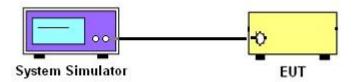
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

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The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

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

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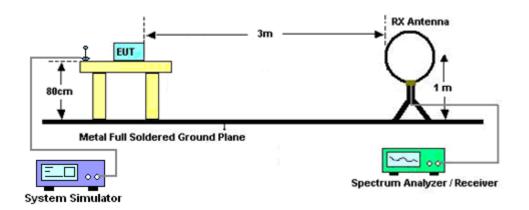
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

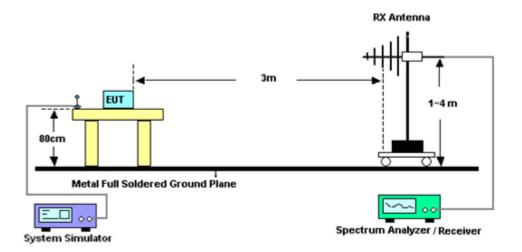
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



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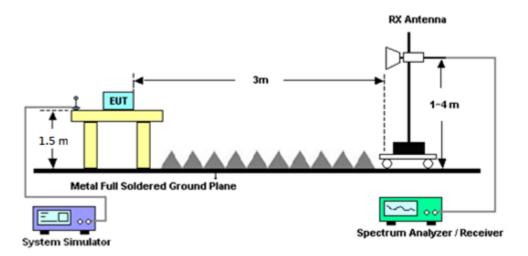
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For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 + 10 log (P) dB.

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For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 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.
- 5. 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	May 22, 2023~ May 25, 2023	Sep. 19, 2023	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 22, 2022	May 22, 2023~ May 25, 2023	Jul. 21, 2023	Radiation (03CH16-HY)
Signal Generator	Agilent	MG3694C	163401	0.1Hz~40GHz	Feb. 08, 2023	May 22, 2023~ May 25, 2023	Feb. 07, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz to 1GHz	Apr. 23, 2023	May 22, 2023~ May 25, 2023	Apr. 22, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 08, 2022	May 22, 2023~ May 25, 2023	Oct. 07, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 09, 2022	May 22, 2023~ May 25, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 23, 2023	May 22, 2023~ May 25, 2023	Mar. 22, 2024	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 04, 2022	May 22, 2023~ May 25, 2023	Jul. 03, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1-18GHz	Dec. 26, 2022	May 22, 2023~ May 25, 2023	Dec. 25, 2023	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2022	May 22, 2023~ May 25, 2023	Dec. 08, 2023	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY57290111	3Hz~26.5GHz	Dec. 15, 2022	May 22, 2023~ May 25, 2023	Dec. 14, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	805935/4	N/A	Aug. 09, 2022	May 22, 2023~ May 25, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	802434/4	N/A	Aug. 09, 2022	May 22, 2023~ May 25, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-57 57	N/A	Aug. 09, 2022	May 22, 2023~ May 25, 2023	Aug. 08, 2023	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	May 22, 2023~ May 25, 2023	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	May 22, 2023~ May 25, 2023	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 22, 2023~ May 25, 2023	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 22, 2023~ May 25, 2023	N/A	Radiation (03CH16-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	May 23, 2023	Oct. 12, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	May 23, 2023	Jan. 05, 2024	Conducted (TH03-HY)

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6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.98 dB
Confidence of 95% (U = 2Uc(y))	2.90 UB

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.54 dB
Confidence of 95% (U = 2Uc(y))	3.54 QB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

LTE Band 14 Maximum Average Power [dBm] (GT - LC = 0 dB)										
BW [MHz]	RB Size	Size RB Offset Mod Lowest Middle Highest ERP (dBm) ERP (
10	1	0	QPSK		24.14		21.99	0.1581		
10	1	0	16-QAM	-	23.58	-	21.43	0.1390		
Limit	ERP < 3W			Result			Pass			

LTE Band 14 Maximum Average Power [dBm] (GT - LC = 0 dB)										
BW [MHz]	RB Size RB Offset Mod Lowest Middle Highest ERP (dBm) ERP (W)							ERP (W)		
5	1	0	QPSK	24.35	24.19	24.08	22.20	0.1660		
5	1	0	16-QAM	23.52	24.03	23.36	21.88	0.1542		
Limit	ERP < 3W			Result			Pass			

Appendix B. Test Results of Radiated Test

LTE Band 14

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LTE Band 14 / 5MHz / QPSK											
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1576	-45.69	-42.15	-3.54	-58.04	-51.09	0.95	8.50	Н		
	2365	-48.25	-13	-35.25	-64.36	-55.44	1.03	10.37	Н		
	3153	-55.43	-13	-42.43	-75.13	-62.35	1.14	10.21	Н		
									Н		
									Н		
Lowest									Н		
Lowest	1576	-48.15	-42.15	-6.00	-60.47	-53.55	0.95	8.50	V		
	2365	-50.39	-13	-37.39	-66.46	-57.58	1.03	10.37	V		
	3153	-54.66	-13	-41.66	-74.15	-61.58	1.14	10.21	V		
									V		
									V		
									V		
	1581	-47.82	-42.15	-5.67	-60.17	-53.22	0.95	8.50	Н		
	2372	-53.20	-13	-40.20	-69.32	-60.37	1.03	10.36	Н		
	3163	-55.47	-13	-42.47	-75.22	-62.43	1.14	10.25	Н		
									Н		
									Н		
Middle									Н		
ivildale	1581	-48.96	-42.15	-6.81	-61.26	-54.36	0.95	8.50	V		
	2372	-54.15	-13	-41.15	-70.24	-61.32	1.03	10.36	V		
	3163	-53.11	-13	-40.11	-72.64	-60.07	1.14	10.25	V		
									V		
									V		
									V		

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	1586	-46.85	-42.15	-4.70	-59.18	-52.25	0.95	8.50	Н
	2380	-52.47	-13	-39.47	-68.60	-59.62	1.04	10.34	Н
	3173	-55.69	-13	-42.69	-75.49	-62.70	1.14	10.29	Н
									Н
									Н
LPstsst									Н
Highest	1586	-49.25	-42.15	-7.10	-61.53	-54.65	0.95	8.50	V
	2380	-54.28	-13	-41.28	-70.39	-61.43	1.04	10.34	V
	3173	-54.17	-13	-41.17	-73.72	-61.18	1.14	10.29	V
									V
									V
									V

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			Ľ	TE Band 14	/ 10MHz / QF	PSK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1577	-46.91	-42.15	-4.76	-59.26	-52.31	0.95	8.50	Н
	2365	-49.59	-13	-36.59	-65.7	-56.78	1.03	10.37	Н
	3154	-55.37	-13	-42.37	-75.07	-62.3	1.14	10.22	Н
									Н
									Н
Middle									Н
Middle	1577	-48.05	-42.15	-5.90	-60.36	-53.45	0.95	8.50	V
	2365	-49.97	-13	-36.97	-66.04	-57.16	1.03	10.37	V
	3154	-53.79	-13	-40.79	-73.28	-60.72	1.14	10.22	V
									V
									V
									V

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

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