



Report No.: FG082414B

# FCC RADIO TEST REPORT

FCC ID : B94HNC10CTKR Equipment : Convertible PC

Brand Name : HP

Model Name : HSN-C10C Applicant : HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Aug. 24, 2020 and testing was started from Sep. 25, 2020 and completed on Oct. 02, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Report Template No.: BU5-FGLTE Version 2.4

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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# History of this test report

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Report No.	Version	Description	Issued Date
FG082414B	01	Initial issue of report	Oct. 22, 2020

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# **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
	§2.1046	Conducted Output Power	Not Required	
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)		
-	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	Net Degrained	-
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)	Not Required	
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Not Required	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Not Required	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Not Required	-

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	\$2.1053 \$22.917 (a) \$24.238 (a) \$27.53 (c)(2) \$27.53 (f) \$27.53 (g) \$27.53 (h) \$2.1051	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)  Radiated Spurious Emission	Pass	Under limit 12.74 dB at 1560.000 MHz
	§27.53 (m)(4)	(Band 7) (Band 38) (Band 41)		

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#### Remark:

- 1. Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by changing CPU and Model name. All the test cases were performed on original report which can be referred to Sporton Report Number FG030918-03B.

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

**Report Producer: Tina Chuang** 

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# 1 General Description

## 1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, and GNSS.

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01100.						
Product Specification subjective to this standard						
WWAN Module	Brand Name: FOXCONN					
WWWAN Wodule	Model Name: T99W175					
	WWAN					
	<ant. 1="">: PIFA Antenna</ant.>					
	<ant. 2="">: PIFA Antenna (Rx only)</ant.>					
	<ant. 3="">: PIFA Antenna</ant.>					
	<ant. 4="">: PIFA Antenna (Rx only)</ant.>					
Antenna Type	WLAN					
	<ant. 1="">: PIFA Antenna</ant.>					
	<ant. 2="">: PIFA Antenna</ant.>					
	Bluetooth: PIFA Antenna					
	GPS/Glonass/BDS/Galileo: PIFA Antenna					
	NFC: Loop Antenna					

WWAN Antenna Information NB Mode								
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)					
			824-849MHz -0.77 dBi (peak)					
			880-915MHz -0.92 dBi (peak)					
			1710-1785MHz 0.56 dBi (peak)					
			1850-1910MHz 1.28 dBi (peak)					
	INPAQ Corporation	PIFA	1920-1980MHz 0.7 dBi (peak)					
Tx1 Antenna			704-716MHz -2.03 dBi (peak)					
WA-P-LTE15-02-003			746-756MHz -0.33 dBi (peak)					
(DC33002DU00)			777-787MHz 0.44 dBi (peak)					
			832-862MHz -0.84 dBi (peak)					
			1710-1755MHz 0.67 dBi (peak)					
			2500-2570MHz -0.31 dBi (peak)					
			2570-2620MHz 0.21 dBi (peak)					
			2300-2400MHz-0.27 dBi (peak)					
MIMO2 Antonno			1930-1990MHz 0.73 dBi (peak)					
MIMO3 Antenna WA-P-LTE16-02-002	INPAQ	PIFA	2110-2170MHz 1.3 dBi (peak)					
(DC33002DU30)	Corporation	FIFA	2132-2155MHz 0.78 dBi (peak)					
(5000025000)			2300-2400MHz 1.17 dBi (peak)					

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WWAN Antenna Information TB Mode								
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)					
			824-849MHz -2.79 dBi (peak)					
			880-915MHz -2.16 dBi (peak)					
			1710-1785MHz -1.2 dBi (peak)					
	INPAQ Corporation	PIFA	1850-1910MHz -1.69 dBi (peak)					
			1920-1980MHz -1.5 dBi (peak)					
Tx1 Antenna			704-716MHz -4.27 dBi (peak)					
WA-P-LTE15-02-003			746-756MHz -4.65 dBi (peak)					
(DC33002DU00)			777-787MHz -4.36 dBi (peak)					
			832-862MHz -2.15 dBi (peak)					
			1710-1755MHz -1.19 dBi (peak)					
			2500-2570MHz 0.16 dBi (peak					
			2570-2620MHz 0.17 dBi (peak)					
			2300-2400MHz -1.81 dBi (peak)					
MIMO3 Antenna			1930-1990MHz -2 dBi (peak)					
WA-P-LTE16-02-002	INPAQ	PIFA	2110-2170MHz -1.69 dBi (peak)					
(DC33002DU30)	Corporation	1117	2132-2155MHz -1.69 dBi (peak)					
(= 3333322 330)			2300-2400MHz 2.82 dBi (peak)					

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## 1.2 Modification of EUT

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

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## 1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory						
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978						
Test Site No.	Sporton Site No.						
Test Site No.	03CH13-HY						
Test Engineer	Daniel Lee, Jacky Hong and Wilson Wu						
Temperature	21.5~25.5℃						
Relative Humidity	49.5~55.5%						

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

FCC Designation No.: TW0007

## 1.4 Applicable Standards

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

- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 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

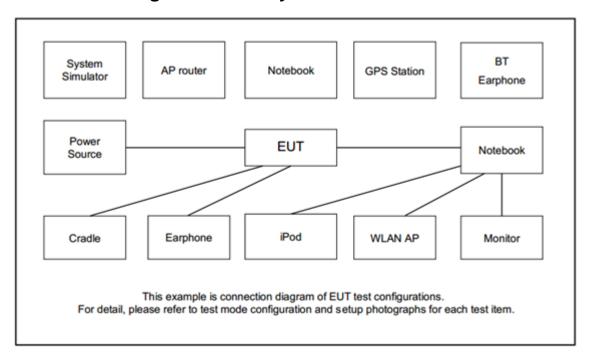
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in Tablet Type (three orthogonal panels, X, Y, Z) and Notebook Type. The worst cases (Y Plane for Band 13 and Y plane with Accessory for Band 41 (HPUE) were recorded in this report.

Took Home				Ва	andwidth (MHz)			Modulation			RB#			Test Channel				
Test Items	Band		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Radiated	13	3			٧		-	-				v	٧			v	٧	v
Spurious Emission	41	!			v		-	-				v	v			v	v	v
Remark	The mark "v" means that this configuration is chosen for testing     The mark "-" means that this bandwidth is not supported.								der									

## 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	SONY	MH750	N/A	N/A	N/A	

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# 2.4 Frequency List of Low/Middle/High Channels

LTE Band 13 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
E	Channel	23205	23230	23255					
5	Frequency	779.5	782	784.5					

LTE Band 41 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
E	Channel	39675	40620	41565					
5	Frequency	2498.5	2593.0	2687.5					

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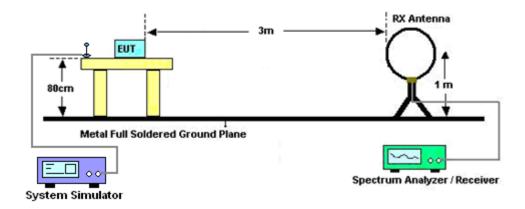
## 3 Radiated Test Items

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

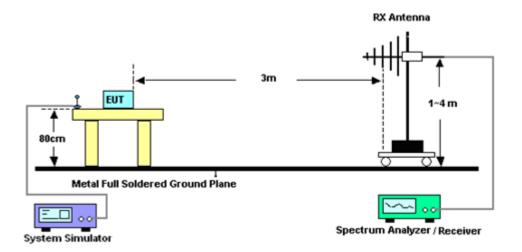
## 3.1.1 Test Setup

#### For radiated test below 30MHz



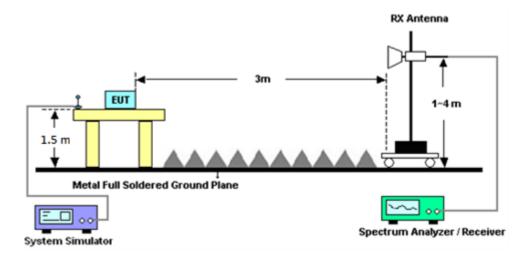
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#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



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### 3.1.2 Test Result of Radiated Test

Please refer to Appendix A.

#### 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 a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site, and the result came out very similar.

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## 3.2 Radiated Spurious Emission Measurement

### 3.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

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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.

For LTE Band 41

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 55 + 10 log (P) dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.

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

#### 3.2.2 Test Procedures

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

- 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.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, 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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

For LTE Band 41

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15

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# 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Date		Due Date	Remark
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Sep. 25, 2020~ Oct. 02, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Sep. 25, 2020~ Oct. 02, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 29, 2020	Sep. 25, 2020~ Oct. 02, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 20, 2020	Sep. 25, 2020~ Oct. 02, 2020	May 19, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jul. 15, 2020	Sep. 25, 2020~ Oct. 02, 2020	Jul. 14, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Sep. 25, 2020~ Oct. 02, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2019	Sep. 25, 2020~ Oct. 02, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Sep. 25, 2020~ Oct. 02, 2020	Feb. 14, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 20, 2020	Sep. 25, 2020~ Oct. 02, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 25, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Sep. 25, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 25, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-00099 2	N/A	N/A	Sep. 25, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Sep. 25, 2020~ Oct. 02, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Sep. 25, 2020~ Oct. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Sep. 25, 2020~ Oct. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Sep. 25, 2020~ Oct. 02, 2020	Feb. 24, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Sep. 25, 2020~ Oct. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M-18G	Feb. 12, 2020	Sep. 25, 2020~ Oct. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Sep. 25, 2020~ Oct. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Sep. 25, 2020~ Oct. 02, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz~40GHz	Jan. 10, 2020	Sep. 25, 2020~ Oct. 02, 2020	Jan. 09, 2021	Radiation (03CH13-HY)

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# 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.10

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

Measuring Uncertainty for a Level of	3.13
Confidence of 95% (U = 2Uc(y))	3.12

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

Measuring Uncertainty for a Level of	2.77
Confidence of 95% (U = 2Uc(y))	3.77

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# Appendix A. Test Results of Radiated Test

# LTE Band 13

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LTE Band 13 / 5MHz / 256QAM									
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)
Lowest	1552	-57.44	-13	-44.44	-70.79	-62.50	1.19	8.40	Н
	2328	-48.32	-13	-35.32	-65.75	-55.12	1.41	10.36	Н
	3104	-57.38	-13	-44.38	-76.07	-64.90	1.55	11.21	Н
	1552	-54.90	-13	-41.90	-68.03	-59.96	1.19	8.40	V
	2328	-50.10	-13	-37.10	-68.06	-56.90	1.41	10.36	V
	3104	-56.93	-13	-43.93	-75.92	-64.45	1.55	11.21	V
Middle	1560	-56.44	-42.15	-14.29	-69.71	-61.53	1.19	8.43	Н
	2336	-48.08	-13	-35.08	-65.45	-54.89	1.41	10.37	Н
	3120	-56.97	-13	-43.97	-75.75	-64.52	1.56	11.26	Н
	1560	-54.89	-42.15	-12.74	-67.94	-59.98	1.19	8.43	V
	2336	-50.40	-13	-37.40	-68.31	-57.21	1.41	10.37	V
	3120	-56.63	-13	-43.63	-75.68	-64.18	1.56	11.26	V
Highest	1568	-56.69	-42.15	-14.54	-69.86	-61.80	1.20	8.46	Н
	2352	-47.17	-13	-34.17	-64.42	-53.99	1.42	10.38	Н
	3136	-57.10	-13	-44.10	-75.95	-64.69	1.57	11.31	Н
	1568	-57.05	-42.15	-14.90	-70.01	-62.16	1.20	8.46	V
	2352	-48.34	-13	-35.34	-66.13	-55.16	1.42	10.38	V
	3136	-56.90	-13	-43.90	-75.99	-64.49	1.57	11.31	V

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

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# LTE Band 41 (HPUE)

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LTE Band 41 (HPUE) / 5MHz / 256QAM									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	5009	-58.14	-25	-33.14	-51.15	-67.89	2.36	12.10	Н
	7515	-52.92	-25	-27.92	-51.32	-60.86	2.11	10.05	Н
	10020	-58.92	-25	-33.92	-61.22	-68.90	1.83	11.81	Н
Lowest	5009	-57.83	-25	-32.83	-51.45	-67.58	2.36	12.10	V
	7515	-50.59	-25	-25.59	-48.87	-58.53	2.11	10.05	V
	10020	-59.79	-25	-34.79	-61.2	-69.77	1.83	11.81	V
	5184	-57.02	-25	-32.02	-50.62	-66.87	2.28	12.14	Н
	7774	-54.89	-25	-29.89	-53.38	-63.76	2.11	10.99	Н
	10365	-58.88	-25	-33.88	-61.78	-68.45	2.38	11.95	Н
Middle	5184	-55.53	-25	-30.53	-49.68	-65.38	2.28	12.14	V
	7774	-50.53	-25	-25.53	-49.09	-59.40	2.11	10.99	V
	10365	-59.23	-25	-34.23	-61.9	-68.80	2.38	11.95	V
Highest	5355	-54.98	-25	-29.98	-49.03	-64.94	2.21	12.17	Н
	8033	-60.62	-25	-35.62	-60.43	-70.36	2.11	11.85	Н
	10711	-58.15	-25	-33.15	-61.57	-67.24	2.62	11.70	Н
	5355	-56.00	-25	-31.00	50.57	-65.96	2.21	12.17	V
	8033	-60.52	-25	-35.52	-60.08	-70.26	2.11	11.85	V
	10711	-58.22	-25	-33.22	-61.68	-67.31	2.62	11.70	V

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

——THE END——

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