APPLICATION CERTIFICATION
On Behalf of
ZHUHAI HONOR TECHNOLOGY CO.LTD

Portable printer
Model No.: XP-P100,XP-P200,XP-P300,XP-P400,
XP-P500,XP-P600,XP-P800,XP-P810,XP-P820,XP-P830

FCC ID: 2AEBCXP-P

Prepared for	:	ZHUHAI HONOR TECHNOLOGY CO.LTD
Address	:	5th Floor, 2 Building, No.613 Huawei Road,Xiangzhou District, Zhuhai, China
Prepared by	:	ACCURATE TECHNOLOGY CO. LTD
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

Report Number	:	ATE20150286
Date of Test	:	Feb 04-Mar 03,2015
Date of Report	:	Mar 04,2015

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Test Report Certification

Applicant	:	ZHUHAI HONOR TECHNOLOGY CO.LTD
Manufacturer	:	ZHUHAI HONOR TECHNOLOGY CO.LTD
EUT Description	:	Portable printer

(A) MODEL NO.: XP-P100,XP-P200,XP-P300,XP-P400, XP-P500,XP-P600,XP-P800,XP-P810,XP-P820,XP-P830

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 7.4V (Battery) & AC 120V(Adapter)

(D) Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4- 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Feb 04-Mar 03,2015
Date of Report: Mar 04,2015

Prepared by : Eric Zhang
(Eric Zhang, Engineer)

Approved & Authorized Signer : Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Portable printer
Model Number	:	XP-P100, XP-P200, XP-P300, XP-P400, XP-P500 XP-P600, XP-P800, XP-P810, XP-P820, XP-P830 Note: These samples are same except for the model number is difference. So we prepare the XP-P100 for test
Frequency Band	:	2402MHz-2480MHz
Number of Channels	:	79
Modulation type	:	GFSK
Antenna Gain	:	0dBi
Antenna type	:	PCB Antenna
Power Supply	:	DC 7.4V (Battery) & AC 120V(Adapter)
Applicant	:	ZHUHAI HONOR TECHNOLOGY CO.LTD
Address	:	5th Floor, 2 Building, No.613 Huawei Road,Xiangzhou District, Zhuhai, China
Manufacturer	:	ZHUHAI HONOR TECHNOLOGY CO.LTD
Address	:	5th Floor, 2 Building, No.613 Huawei Road,Xiangzhou District, Zhuhai, China
Date of sample received	:	Feb 04, 2015
Date of Test	:	Feb 04-Mar 03,2015

1.2.Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen Listed by FCC The Registration Number is 752051 Listed by Industry Canada The Registration Number is 5077A-2 Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	:	ACCURATE TECHNOLOGY CO. LTD
Site Location	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 10, 2015	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 10, 2015	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 10, 2015	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 10, 2015	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2015	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2015	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2015	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 15, 2015	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 10, 2015	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 10, 2015	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode
Low Channel: 2402MHz
Middle Channel: 2441MHz
High Channel: 2480MHz
Hopping

3.2.Configuration and peripherals

EUT

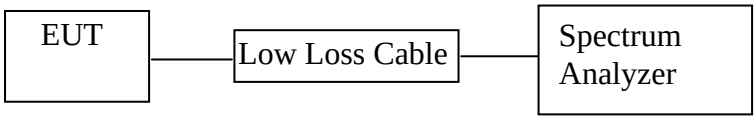
(EUT: Portable printer)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1.Block Diagram of Test Setup



(EUT: Portable printer)

5.2.The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

5.5.Test Procedure

5.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2.Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.

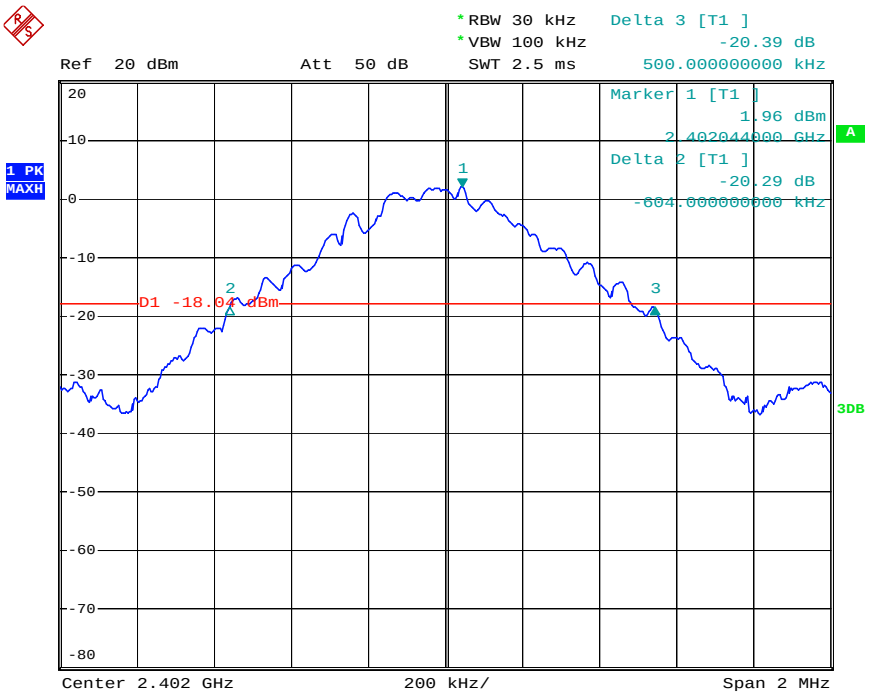
5.5.3.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.6.Test Result

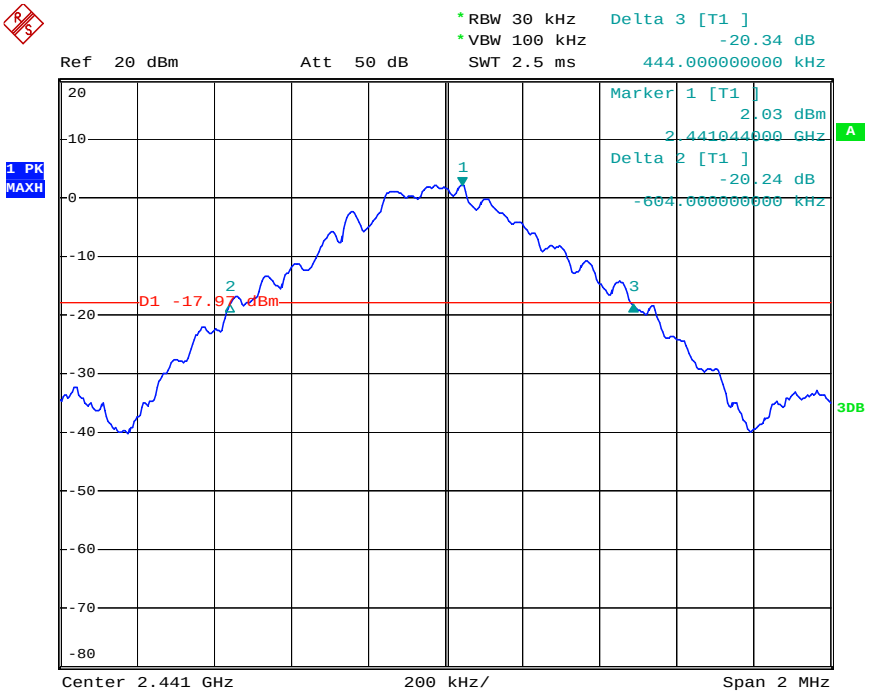
Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
Low	2402	1.104	Pass
Middle	2441	1.048	Pass
High	2480	1.048	Pass

The spectrum analyzer plots are attached as below.

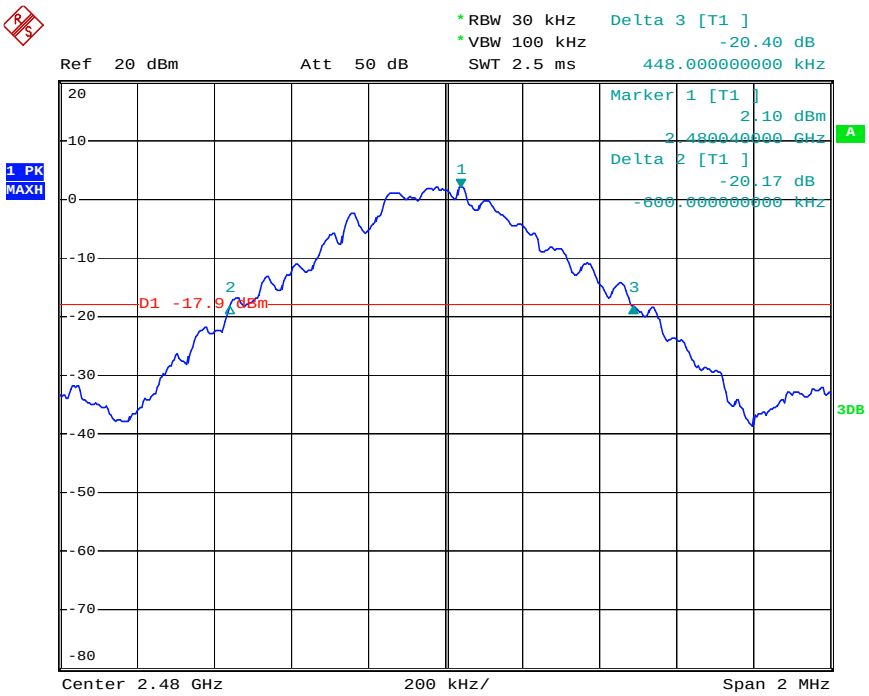
Low channel



Middle channel

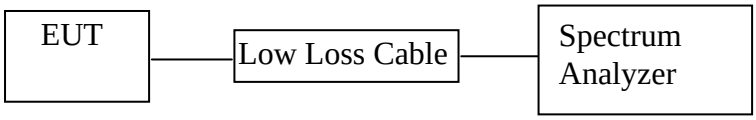


High channel



6. CARRIER FREQUENCY SEPARATION TEST

6.1.Block Diagram of Test Setup



(EUT: Portable printer)

6.2.The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

6.5.Test Procedure

6.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz. Adjust Span to 3 MHz.

6.5.3.Set the adjacent channel of the EUT maxhold another trace.

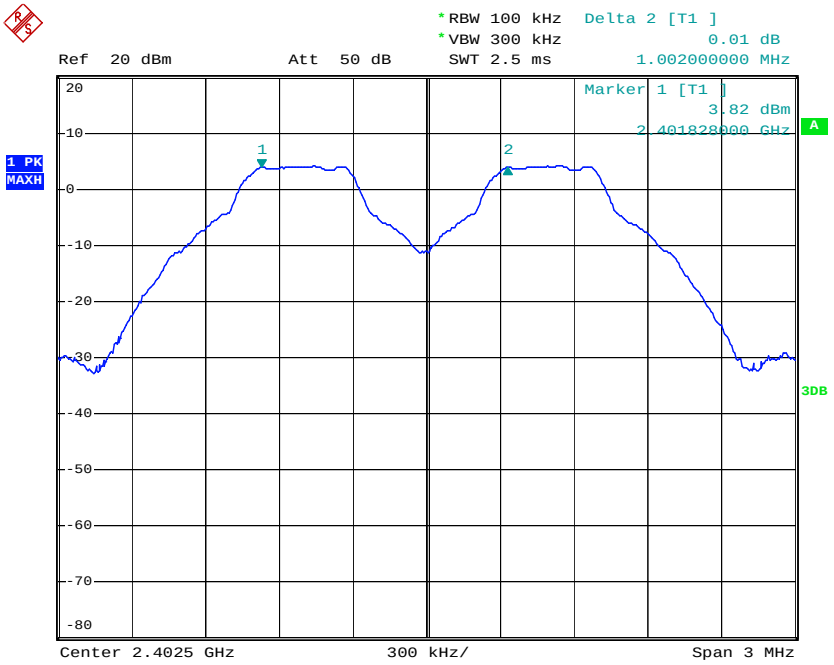
6.5.4.Measurement the channel separation

6.6.Test Result

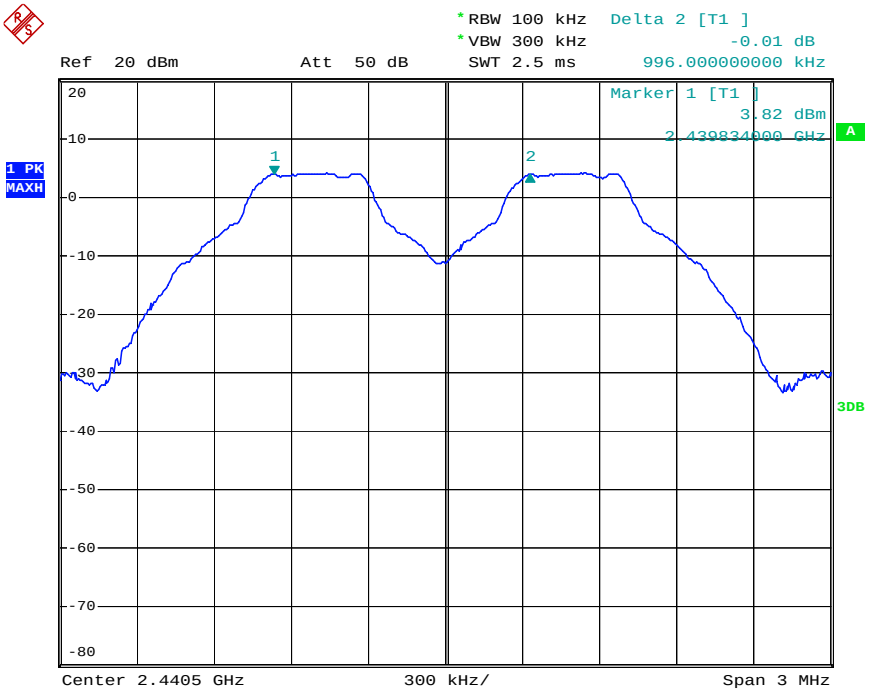
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or2/3* 20dB bandwidth	PASS
	2403			
Middle	2440	0.996	25KHz or2/3*20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or2/3* 20dB bandwidth	PASS
	2480			

The spectrum analyzer plots are attached as below.

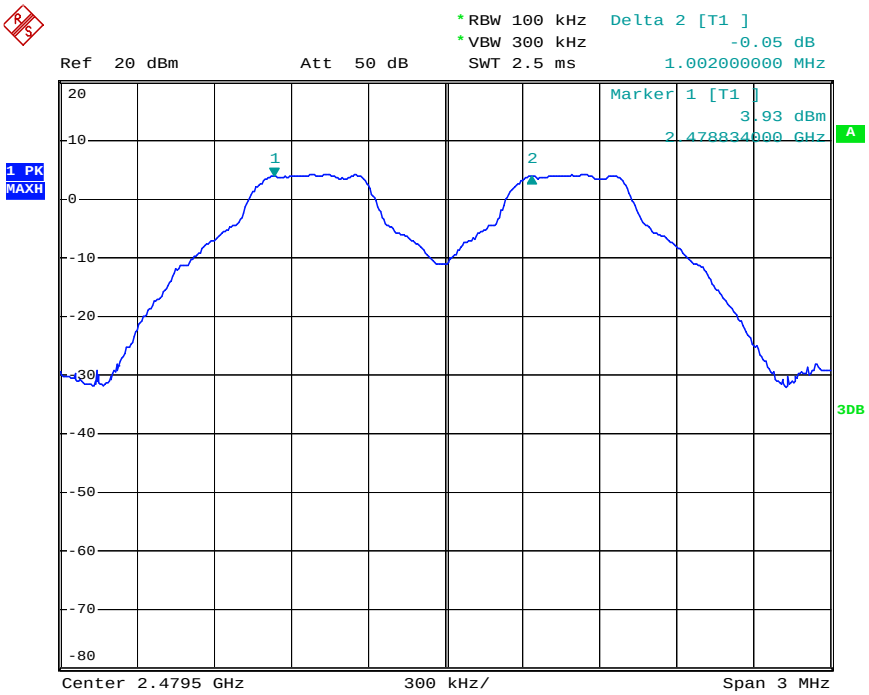
Low channel



Middle channel

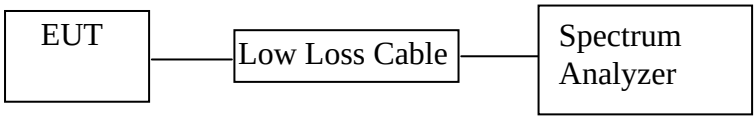


High channel



7. NUMBER OF HOPPING FREQUENCY TEST

7.1.Block Diagram of Test Setup



(EUT: Portable printer)

7.2.The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX (Hopping on) modes measure it.

7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Set the spectrum analyzer as Span=83.5MHz, RBW=100 kHz, VBW=300 kHz.

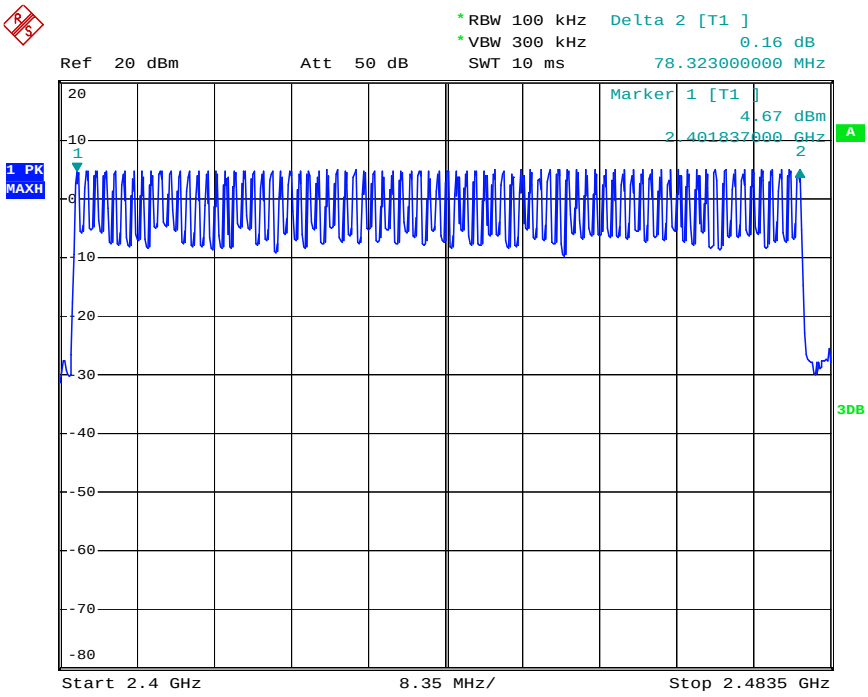
7.5.3.Max hold, view and count how many channel in the band.

7.6.Test Result

Total number of hopping channel	Measurement result(CH)	Limit(CH)
	79	⩾15

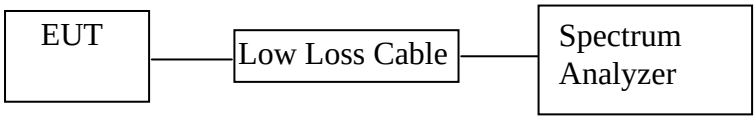
The spectrum analyzer plots are attached as below.

Number of hopping channels



8. DWELL TIME TEST

8.1.Block Diagram of Test Setup



(EUT: Portable printer)

8.2.The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

8.5.Test Procedure

8.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2.Set center frequency of spectrum analyzer = operating frequency.

8.5.3.Set the spectrum analyzer as RBW=1MHz, VBW=1MHz, Span=0Hz.

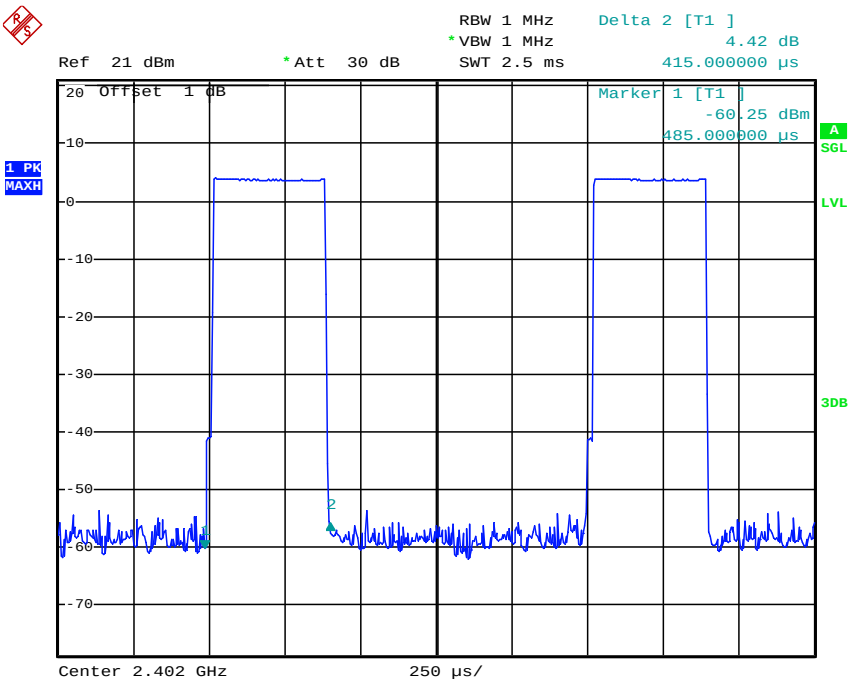
8.5.4.Repeat above procedures until all frequency measured were complete.

8.6.Test Result

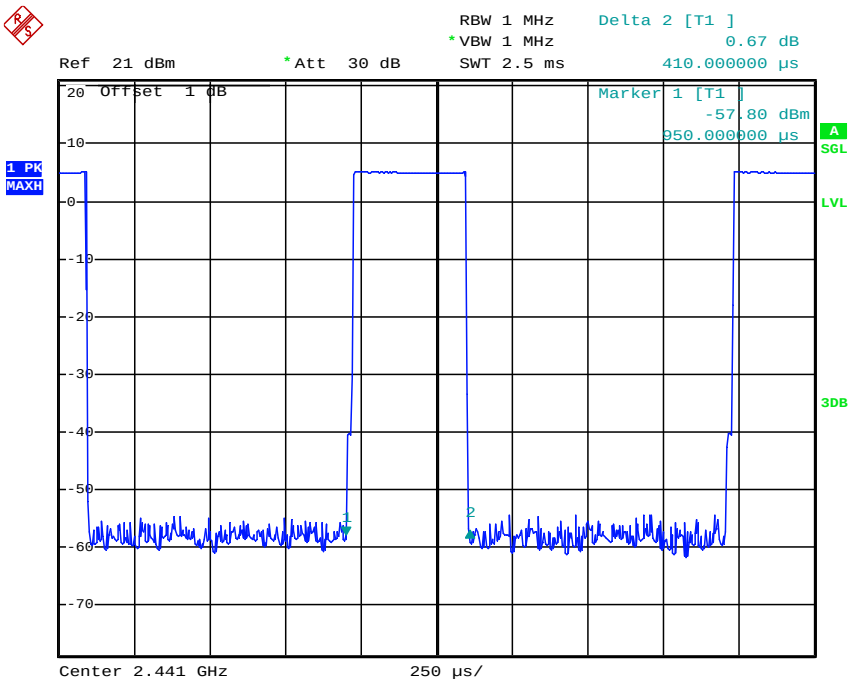
Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.415	132.80	400
	2441	0.410	131.20	400
	2480	0.415	132.80	400
A period transmit time = 0.4 × 79 = 31.6 Dwell time = pulse time × (1600/(2*79))×31.6				
DH3	2402	1.680	268.80	400
	2441	1.695	271.20	400
	2480	1.680	268.80	400
A period transmit time = 0.4 × 79 = 31.6 Dwell time = pulse time × (1600/(4*79))×31.6				
DH5	2402	2.960	315.73	400
	2441	2.960	315.73	400
	2480	2.960	315.73	400
A period transmit time = 0.4 × 79 = 31.6 Dwell time = pulse time × (1600/(6*79))×31.6				

The spectrum analyzer plots are attached as below.

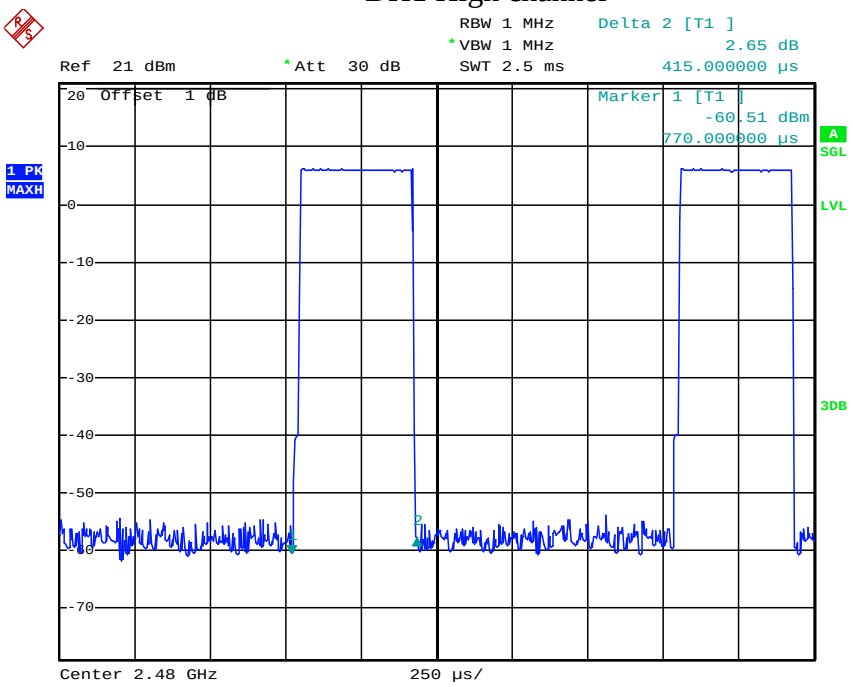
DH1 Low channel



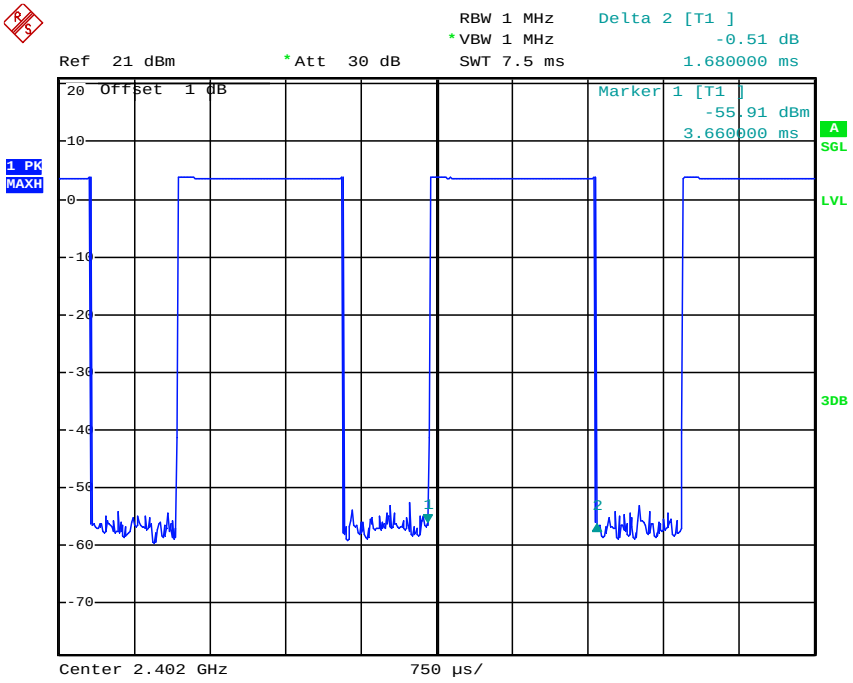
DH1 Middle channel



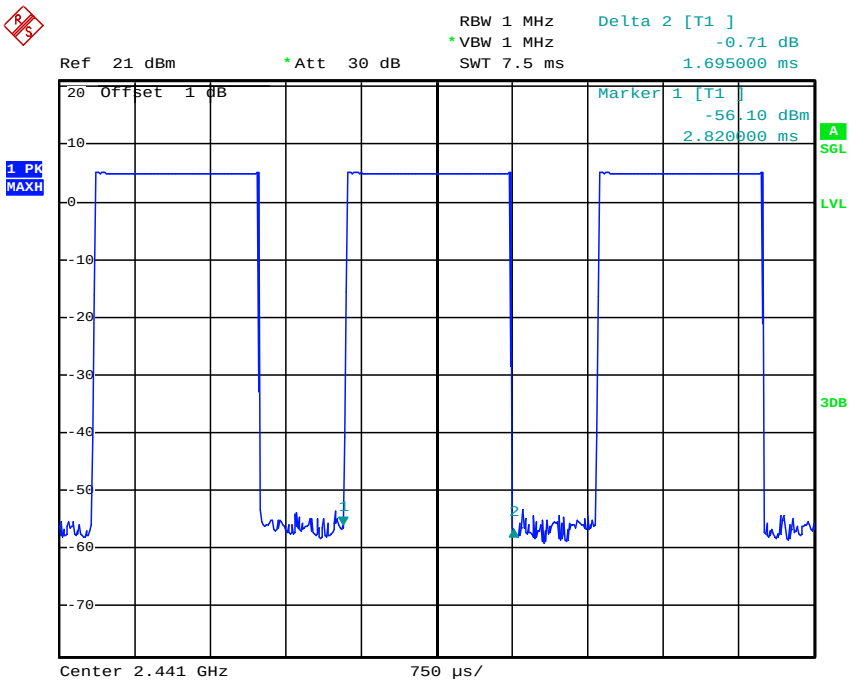
DH1 High channel



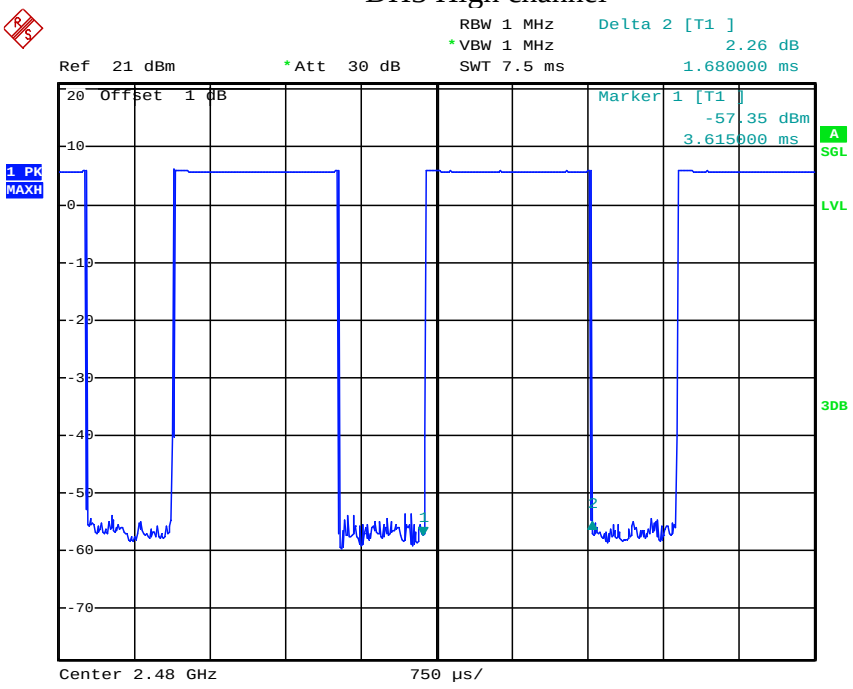
DH3 Low channel



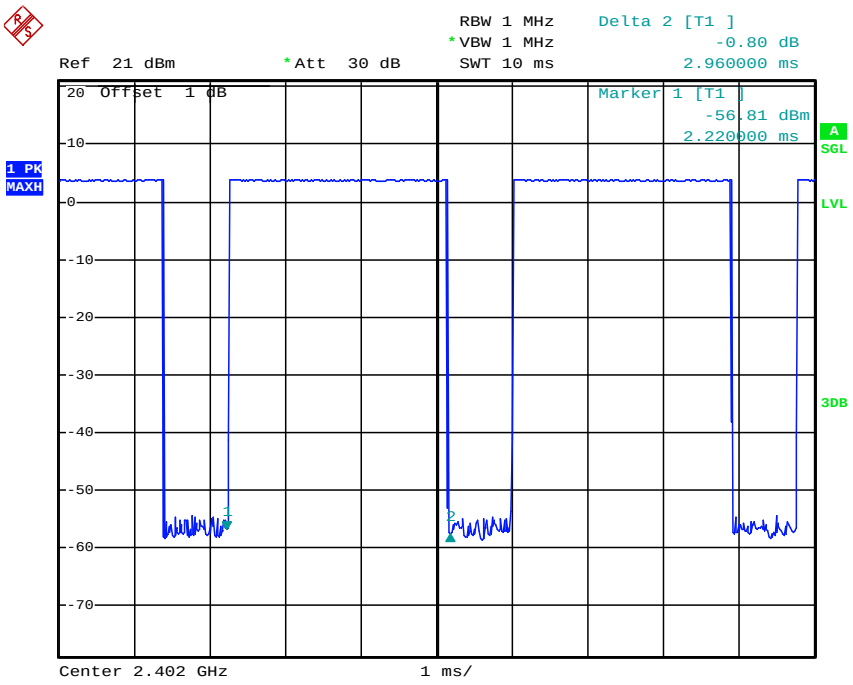
DH3 Middle channel



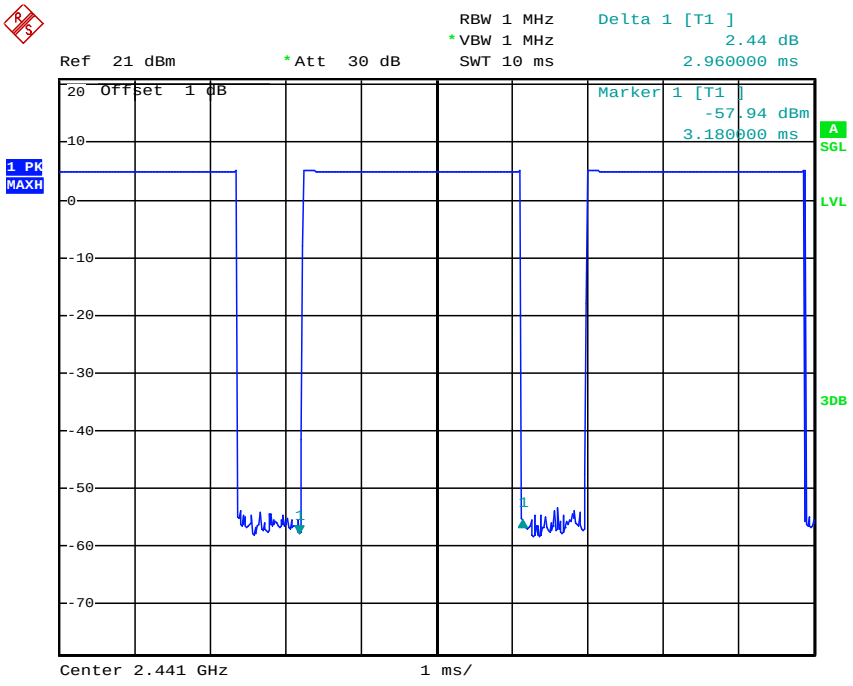
DH3 High channel



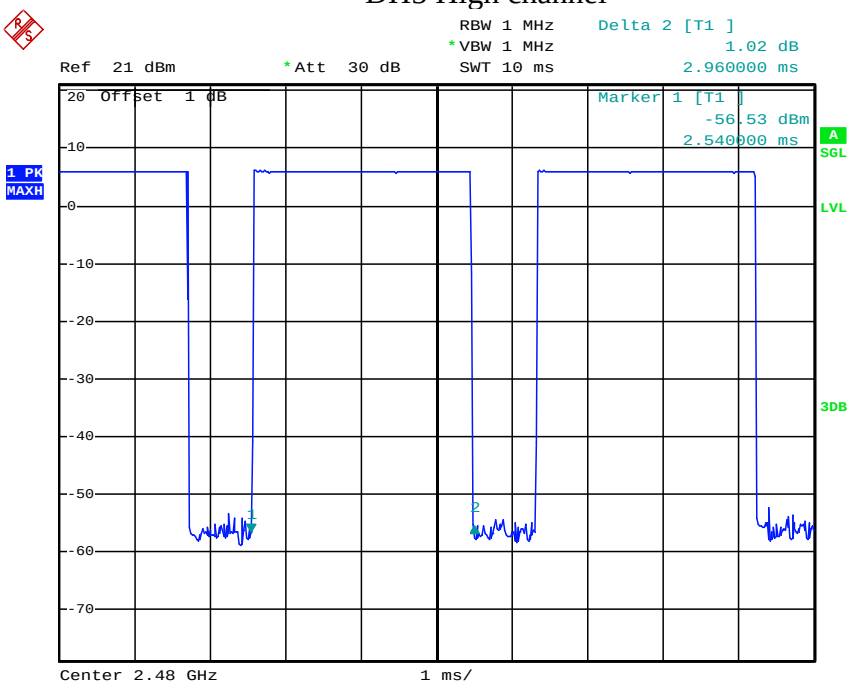
DH5 Low channel



DH5 Middle channel

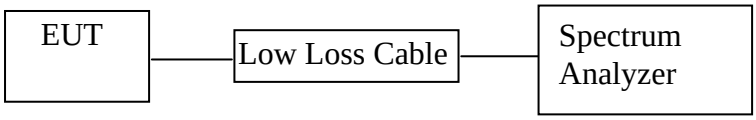


DH5 High channel



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1.Block Diagram of Test Setup



(EUT: Portable printer)

9.2.The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.Operating Condition of EUT

9.4.1.Setup the EUT and simulator as shown as Section 9.1.

9.4.2.Turn on the power of all equipment.

9.4.3.Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5.Test Procedure

9.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 3MHz and VBW to 10MHz

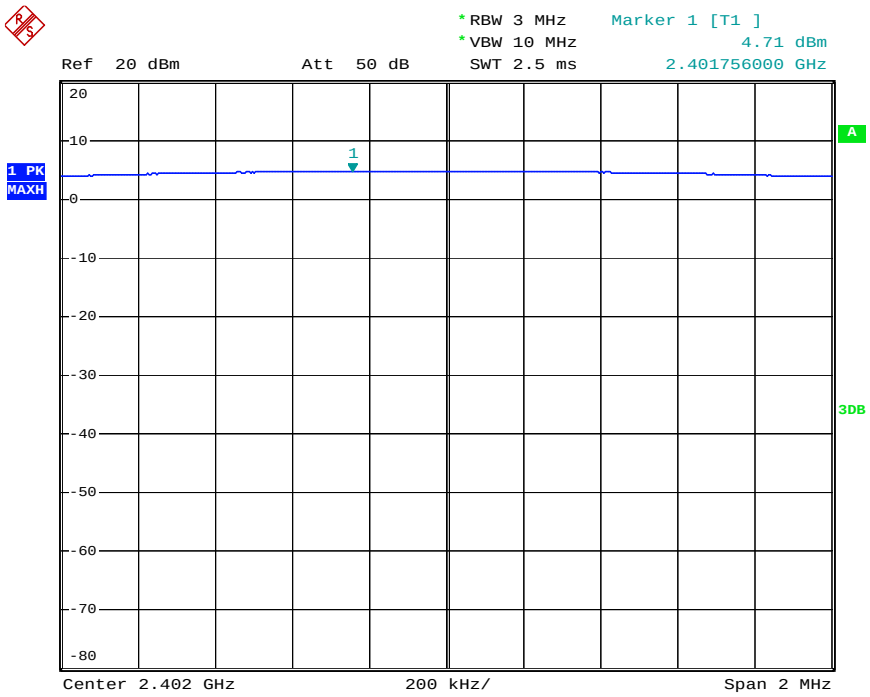
9.5.3.Measurement the maximum peak output power.

9.6.Test Result

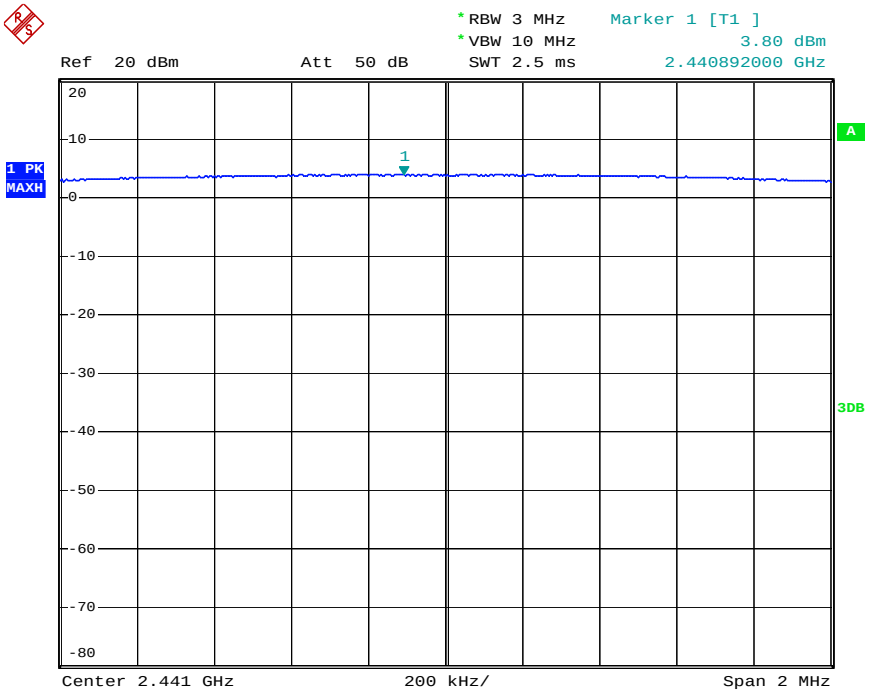
Channel	Frequency (MHz)	Peak Output Power (dBm)	Limits dBm / W
Low	2402	4.71	21/0.125
Middle	2441	3.80	21/0.125
High	2480	4.83	21/0.125

The spectrum analyzer plots are attached as below.

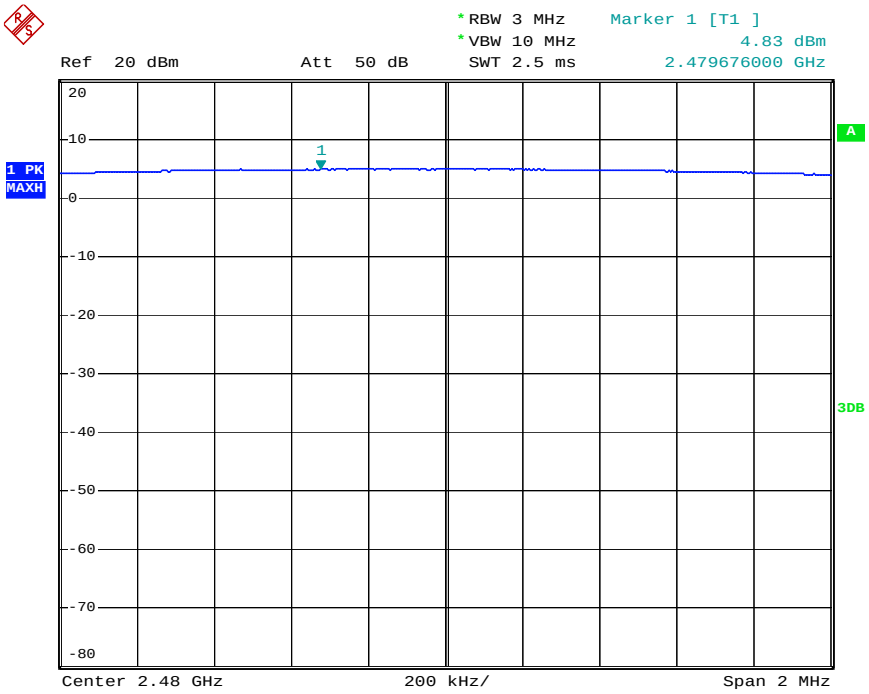
Low channel



Middle channel



High channel



10.RADIATED EMISSION TEST

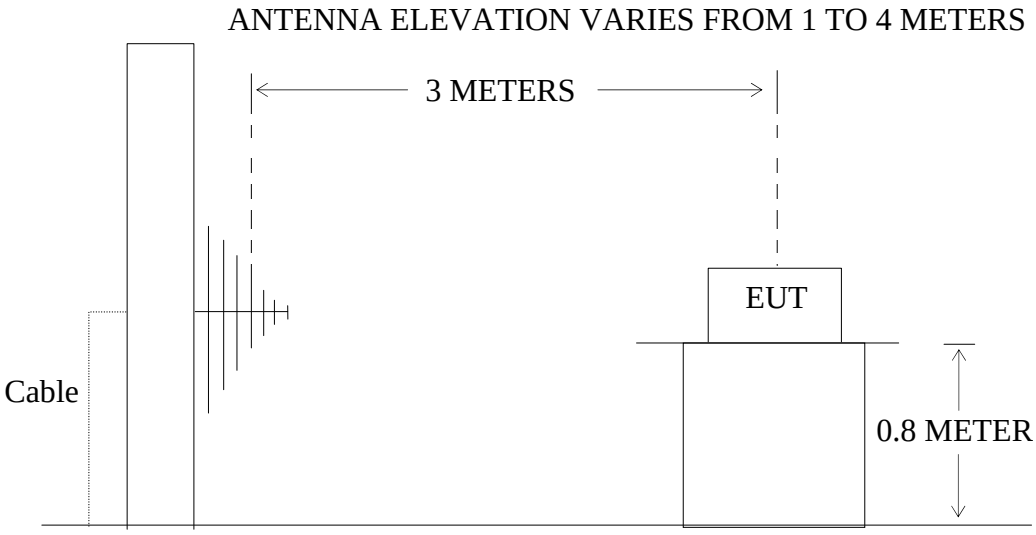
10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Portable printer)

10.1.2.Anechoic Chamber Test Setup Diagram



(EUT: Portable printer)

10.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4- 2009 on radiated emission measurement.
The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
Peak detector above 1GHz
RBW (1 MHz), VBW (3MHz) for Peak measurement
RBW (1 MHz), VBW (10Hz) for AV measurement

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.6.The Field Strength of Radiation Emission Measurement Results

Note:

1. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots.

2. The 18-25GHz emissions are not reported, because the levels are too low against the limit.

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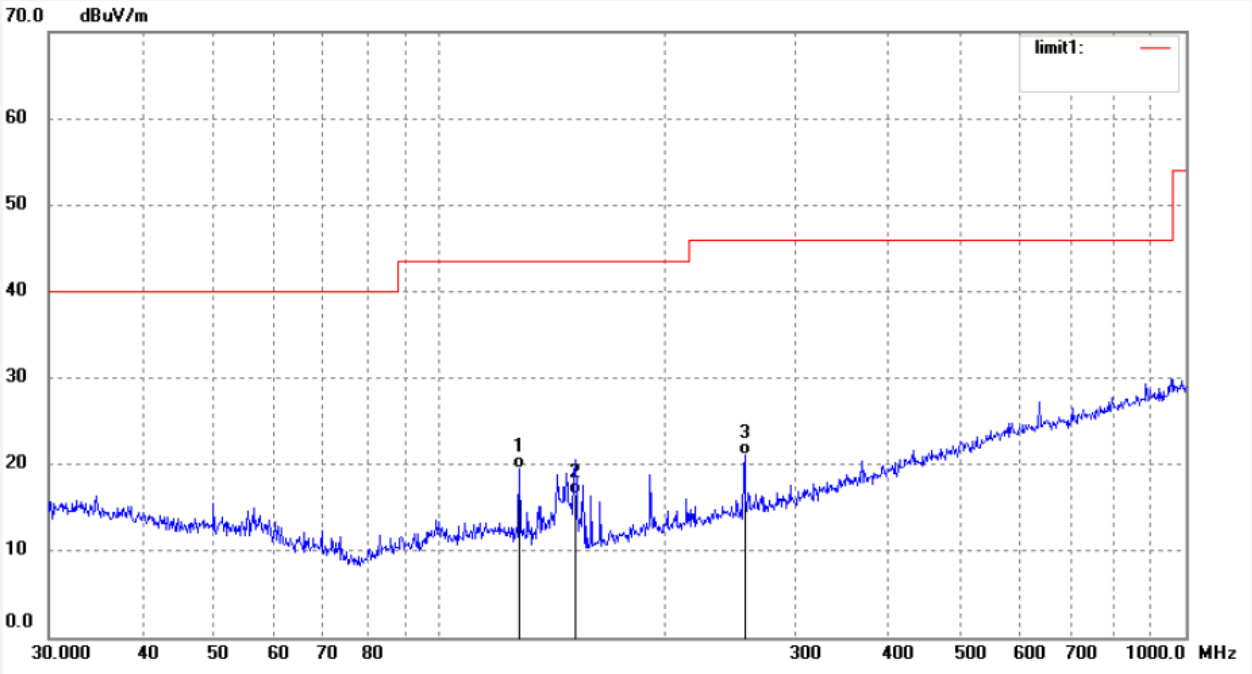
Job No.: CARRY2015 #58	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10/02/19
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	128.1129	33.27	-13.81	19.46	43.50	-24.04	QP			
2	152.1297	31.74	-15.14	16.60	43.50	-26.90	QP			
3	256.5210	31.88	-10.74	21.14	46.00	-24.86	QP			

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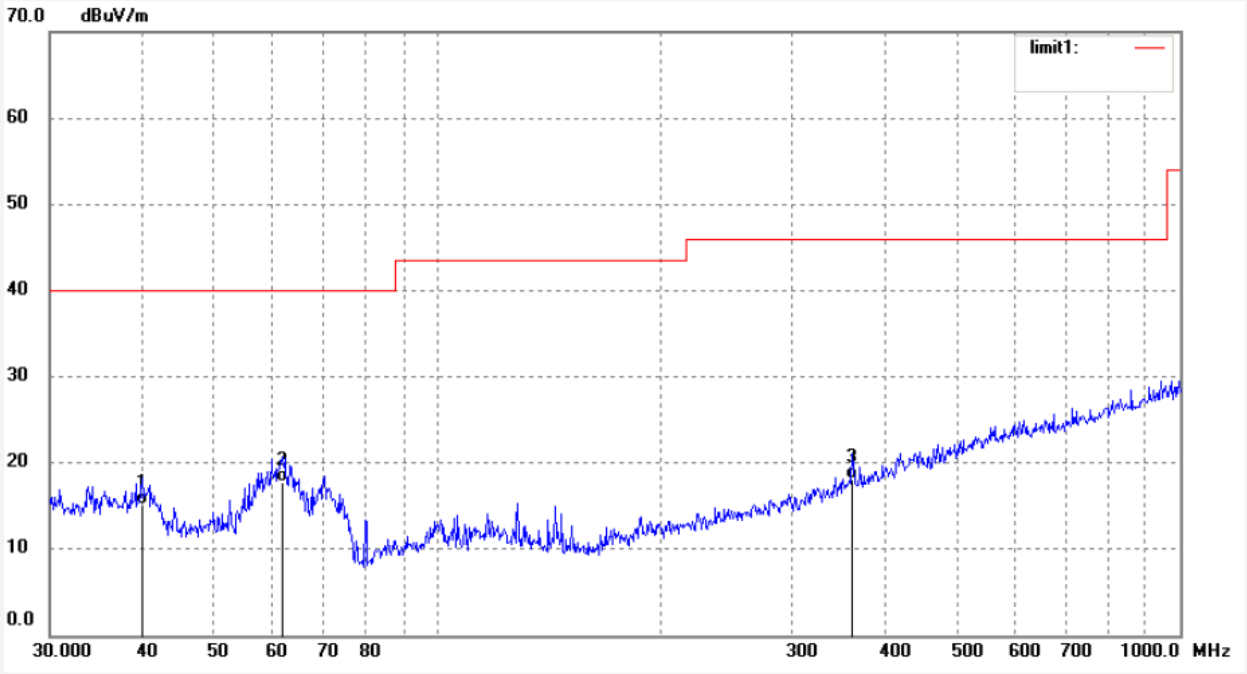
Job No.: CARRY2015 #59	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10/03/14
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.9942	26.74	-11.54	15.20	40.00	-24.80	QP			
2	61.7781	32.36	-14.58	17.78	40.00	-22.22	QP			
3	361.7139	25.77	-7.60	18.17	46.00	-27.83	QP			

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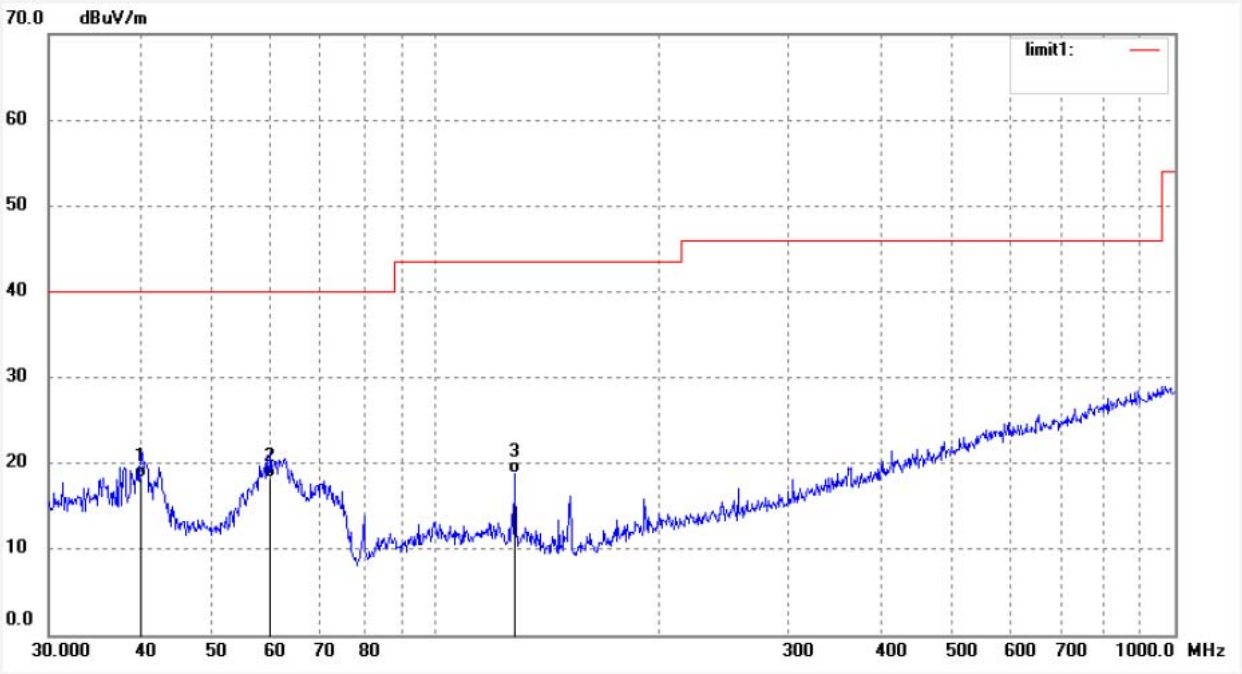
Job No.: CARRY2015 #60
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Portable printer
Mode: TX 2441MHz
Model: XP-P100
Manufacturer: HONOR

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/03/02/
Time: 10/05/10
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.9941	29.85	-11.54	18.31	40.00	-21.69	QP			
2	59.8588	32.19	-13.91	18.28	40.00	-21.72	QP			
3	128.1126	32.62	-13.81	18.81	43.50	-24.69	QP			

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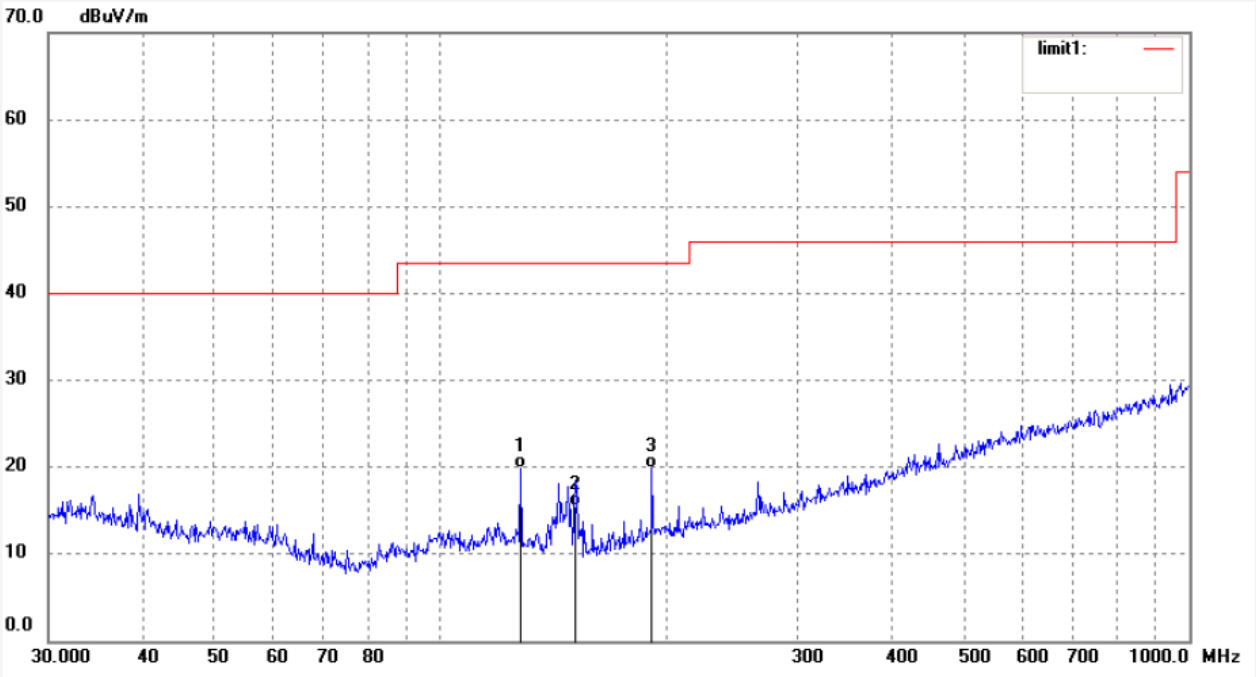
Job No.: CARRY2015 #61	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10/06/14
EUT: Portable printer	Engineer Signature:
Mode: TX 2441MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	128.1126	33.67	-13.81	19.86	43.50	-23.64	QP			
2	151.5971	30.60	-15.14	15.46	43.50	-28.04	QP			
3	191.7450	32.37	-12.59	19.78	43.50	-23.72	QP			

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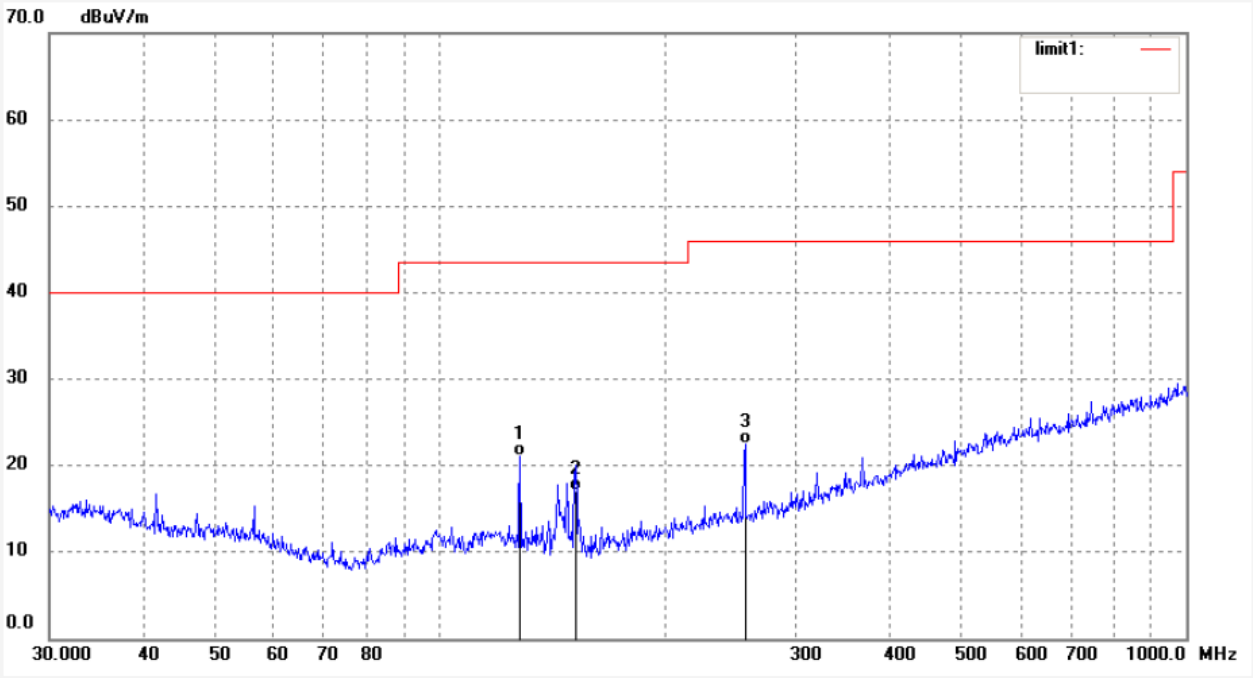
Job No.: CARRY2015 #62	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10/07/02
EUT: Portable printer	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	128.1126	34.91	-13.81	21.10	43.50	-22.40	QP			
2	152.1297	32.14	-15.14	17.00	43.50	-26.50	QP			
3	256.5210	33.18	-10.74	22.44	46.00	-23.56	QP			

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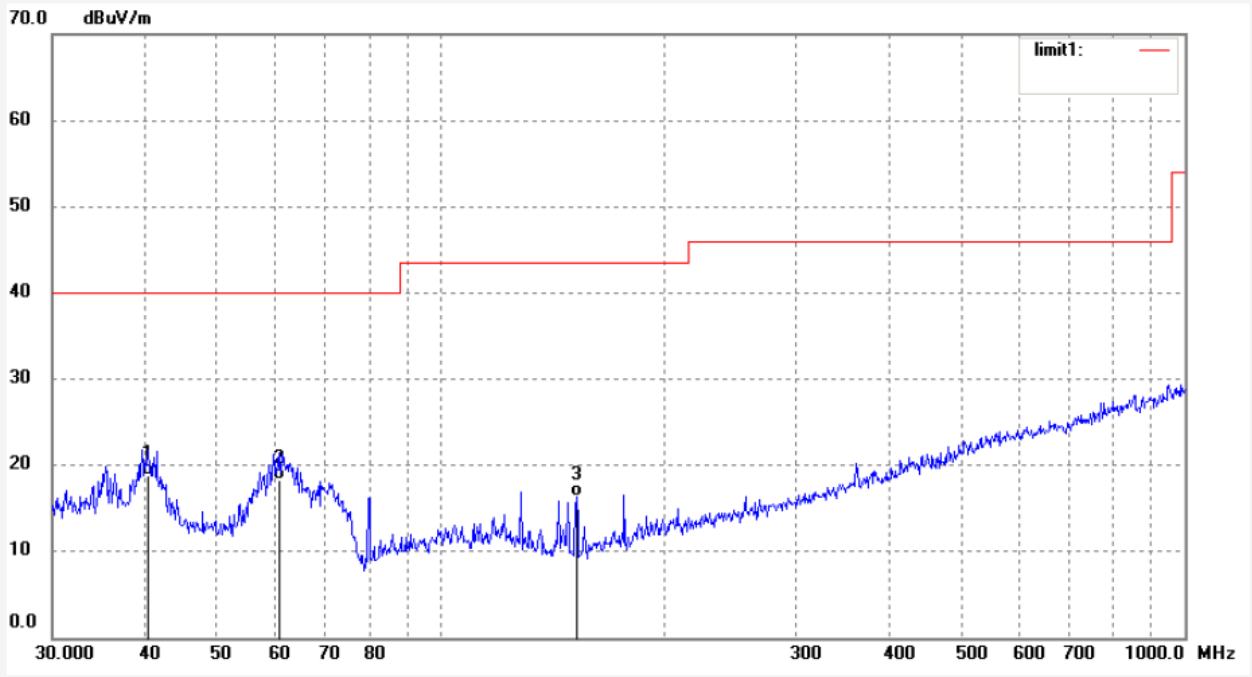
Job No.: CARRY2015 #63	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10/08/09
EUT: Portable printer	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.4172	30.43	-11.63	18.80	40.00	-21.20	QP			
2	60.4919	32.48	-14.12	18.36	40.00	-21.64	QP			
3	152.1297	31.55	-15.14	16.41	43.50	-27.09	QP			

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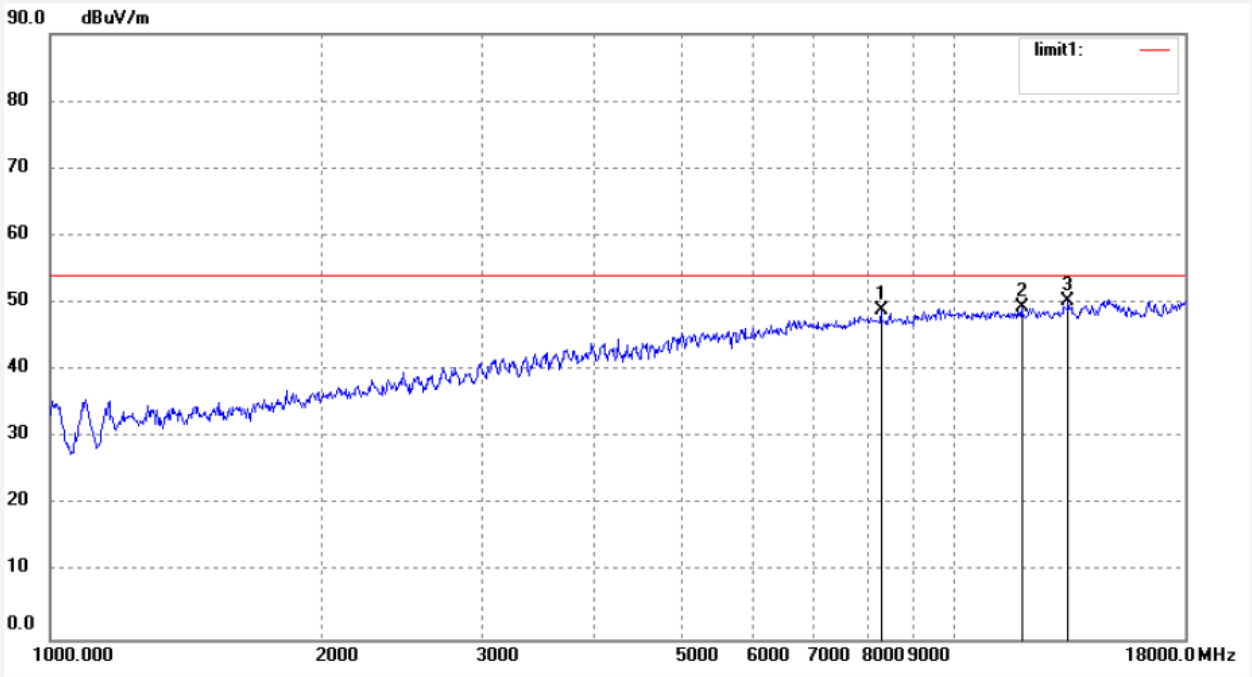
Job No.: CARRY2015 #49	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9/23/33
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8295.823	41.41	7.53	48.94	54.00	-5.06	peak			
2	11871.710	37.89	11.51	49.40	54.00	-4.60	peak			
3	13365.322	10.79	39.44	50.23	54.00	-3.77	peak			

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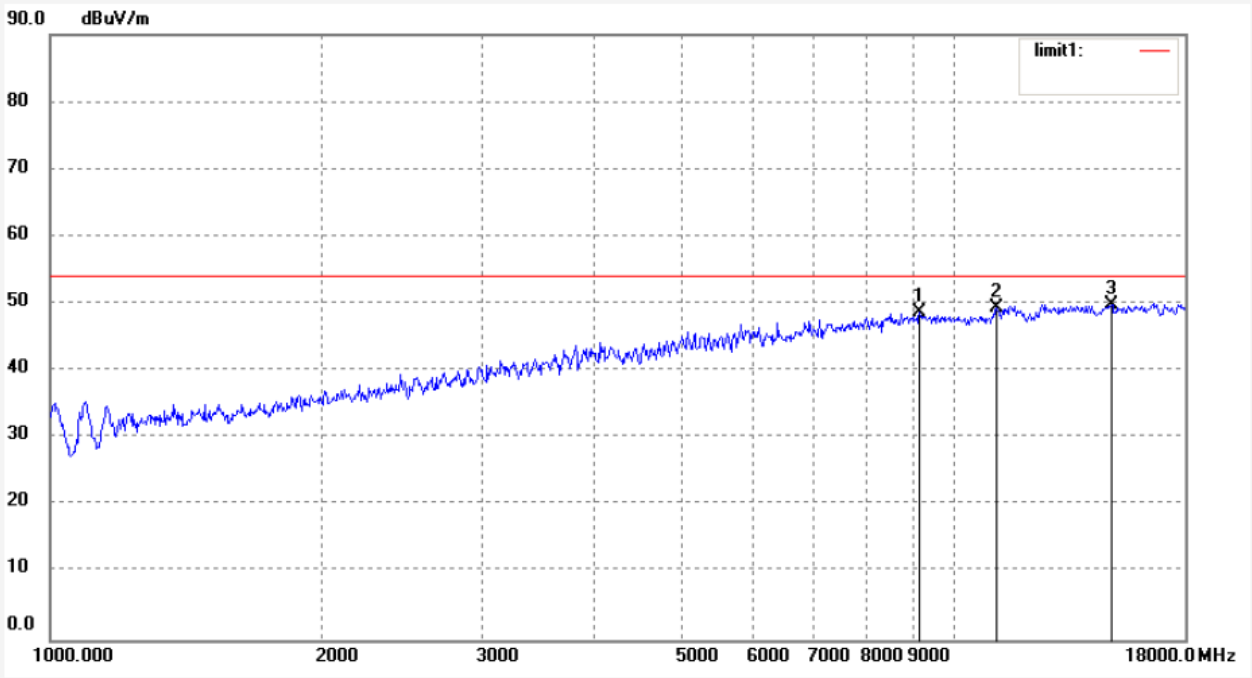
Job No.: CARRY2015 #50	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9/24/18
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9152.479	40.80	7.93	48.73	54.00	-5.27	peak			
2	11140.310	39.69	9.65	49.34	54.00	-4.66	peak			
3	14916.942	8.53	41.35	49.88	54.00	-4.12	peak			

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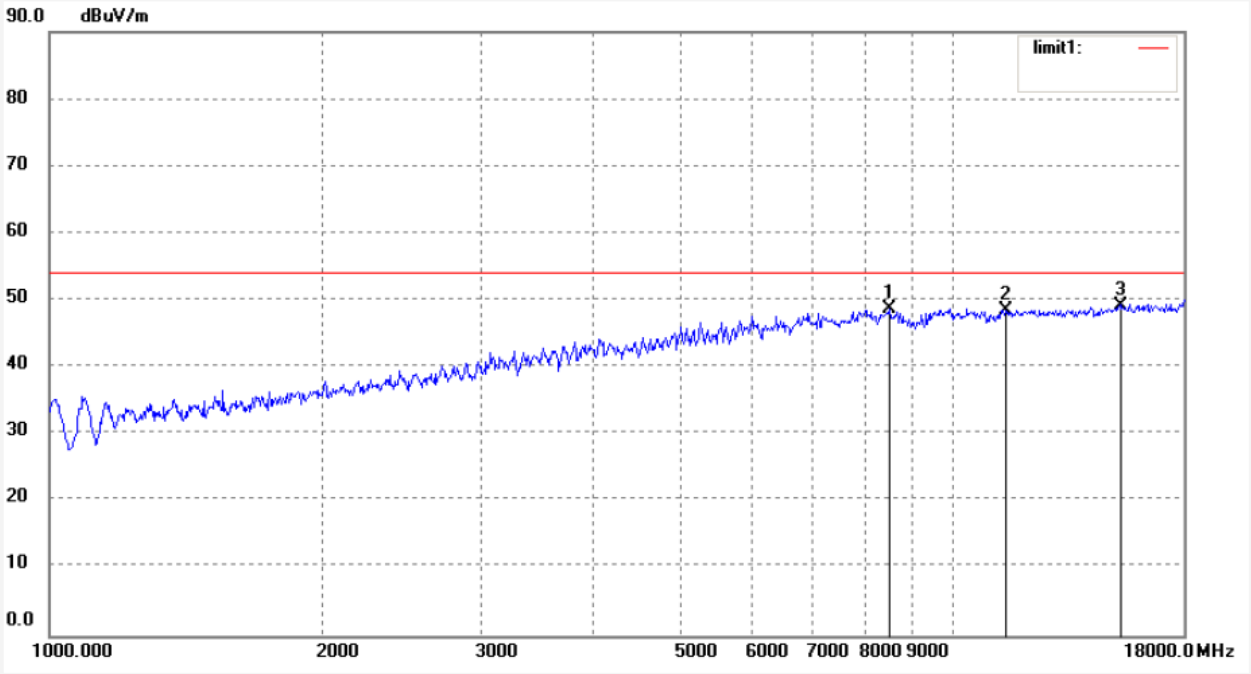
Job No.: CARRY2015 #51	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9/24/59
EUT: Portable printer	Engineer Signature:
Mode: TX 2441MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8489.882	40.87	7.92	48.79	54.00	-5.21	peak			
2	11433.909	38.04	10.53	48.57	54.00	-5.43	peak			
3	15265.885	8.64	40.57	49.21	54.00	-4.79	peak			

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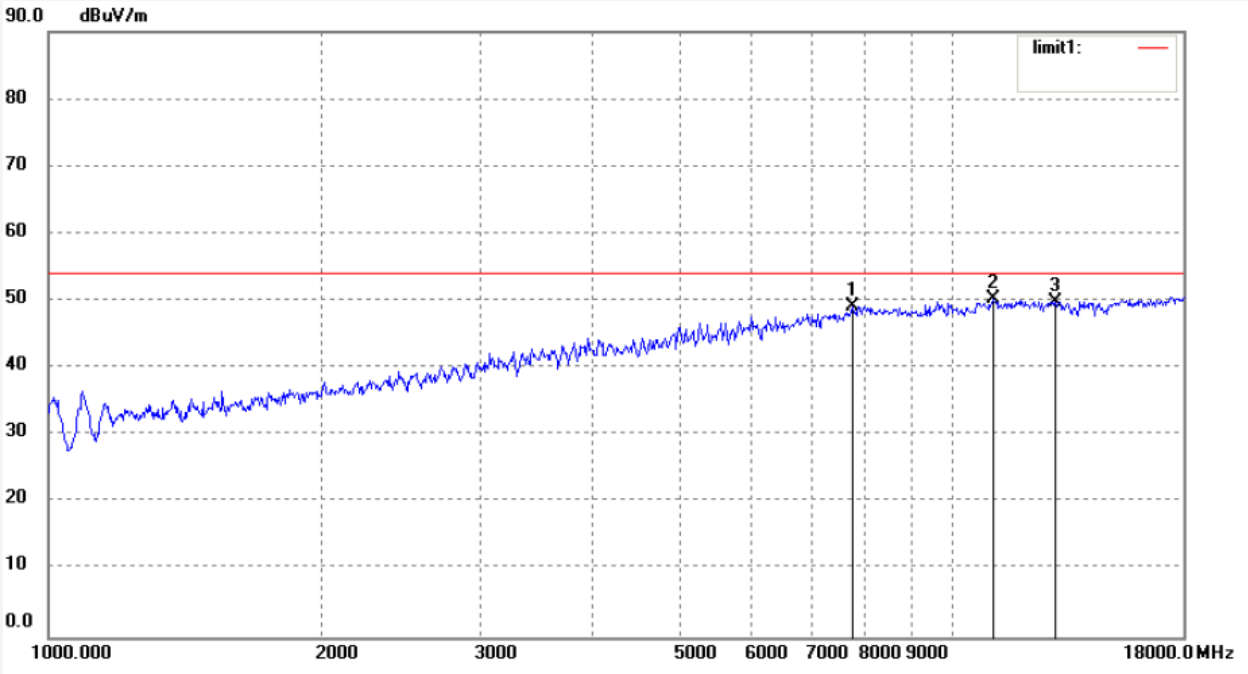
Job No.: CARRY2015 #52	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9/25/35
EUT: Portable printer	Engineer Signature:
Mode: TX 2441MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	7739.857	43.77	5.43	49.20	54.00	-4.80	peak			
2	11076.096	40.68	9.54	50.22	54.00	-3.78	peak			
3	12984.544	10.93	38.98	49.91	54.00	-4.09	peak			

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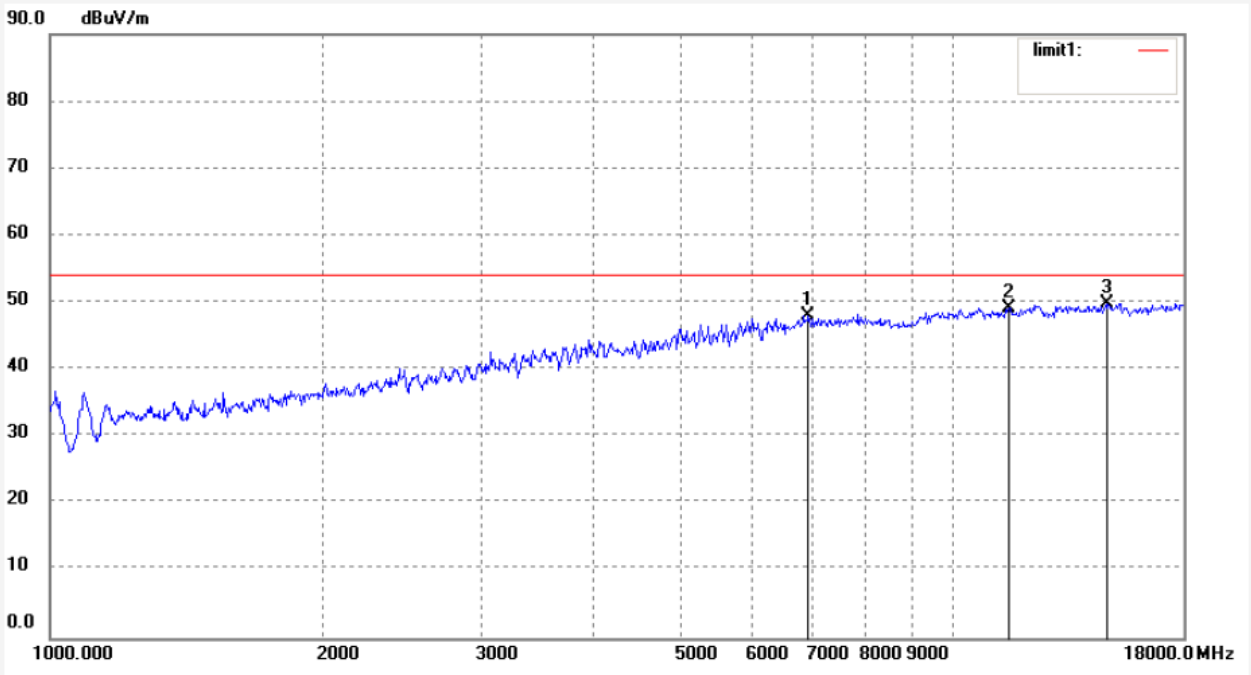
Job No.: CARRY2015 #53
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Portable printer
Mode: TX 2480MHz
Model: XP-P100
Manufacturer: HONOR

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/03/02/
Time: 9/25/51
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6914.763	44.18	3.79	47.97	54.00	-6.03	peak			
2	11533.485	38.67	10.55	49.22	54.00	-4.78	peak			
3	14788.154	8.08	41.74	49.82	54.00	-4.18	peak			

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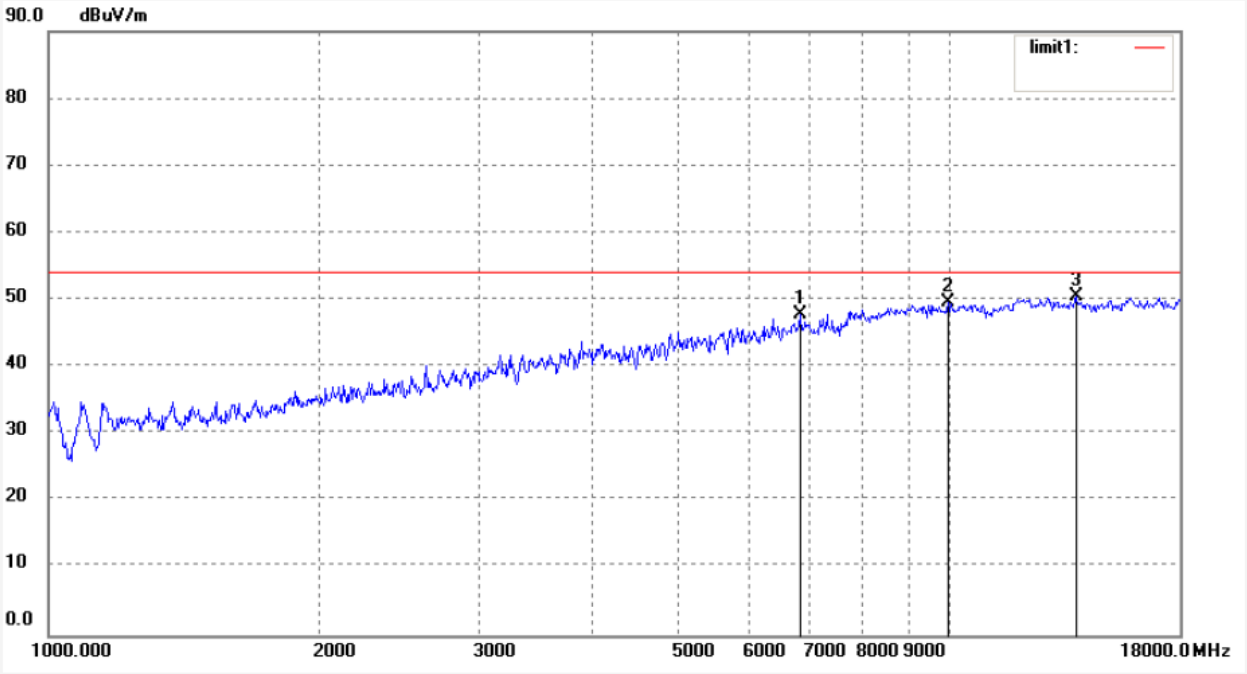
Job No.: CARRY2015 #54
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Portable printer
Mode: TX 2480MHz
Model: XP-P100
Manufacturer: HONOR

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/03/02/
Time: 9/27/06
Engineer Signature:
Distance: 3m

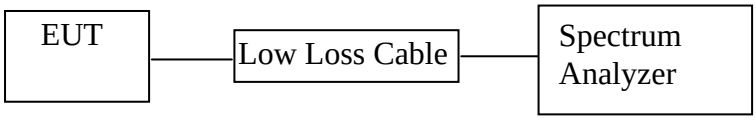
Note: Report NO.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6815.551	44.03	3.77	47.80	54.00	-6.20	peak			
2	9952.717	39.93	9.62	49.55	54.00	-4.45	peak			
3	13797.088	10.47	40.08	50.55	54.00	-3.45	peak			

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: Portable printer)

11.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5.Test Procedure

11.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

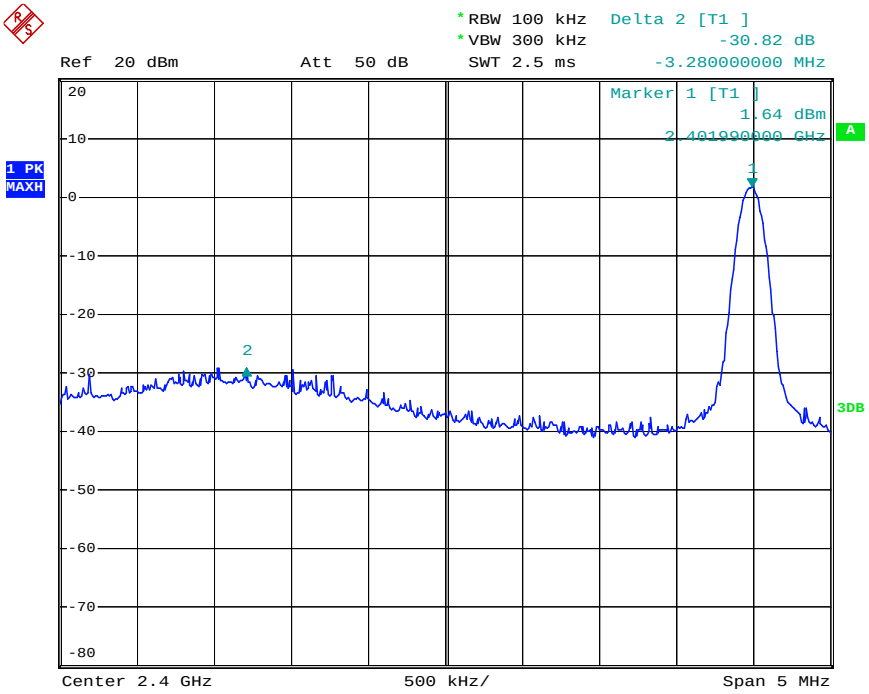
11.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

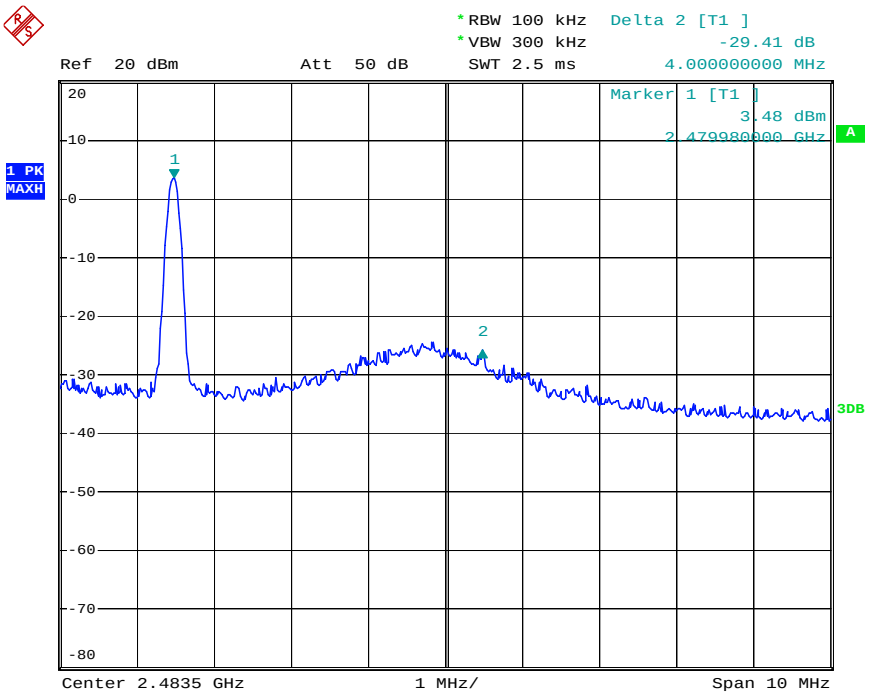
11.5.3.The band edges was measured and recorded.

11.6.Test Result

Channel	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK		
Low channel	30.82	> 20dBc
High channel	29.41	> 20dBc

GFSK


*RBW 100 kHz
*VBW 300 kHz
Delta 2 [T1]
-30.82 dB
Ref 20 dBm
Att 50 dB
SWT 2.5 ms
-3.280000000 MHz
Marker 1 [T1]
1.64 dBm
2.401990000 GHz
1 PK
MAXH
A
3DB
Center 2.4 GHz
500 kHz/
Span 5 MHz


*RBW 100 kHz
*VBW 300 kHz
Delta 2 [T1]
-29.41 dB
Ref 20 dBm
Att 50 dB
SWT 2.5 ms
4.000000000 MHz
Marker 1 [T1]
3.48 dBm
2.479980000 GHz
1 PK
MAXH
A
3DB
Center 2.4835 GHz
1 MHz/
Span 10 MHz

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Non-hopping mode

ACCURATE TECHNOLOGY CO., LTD.
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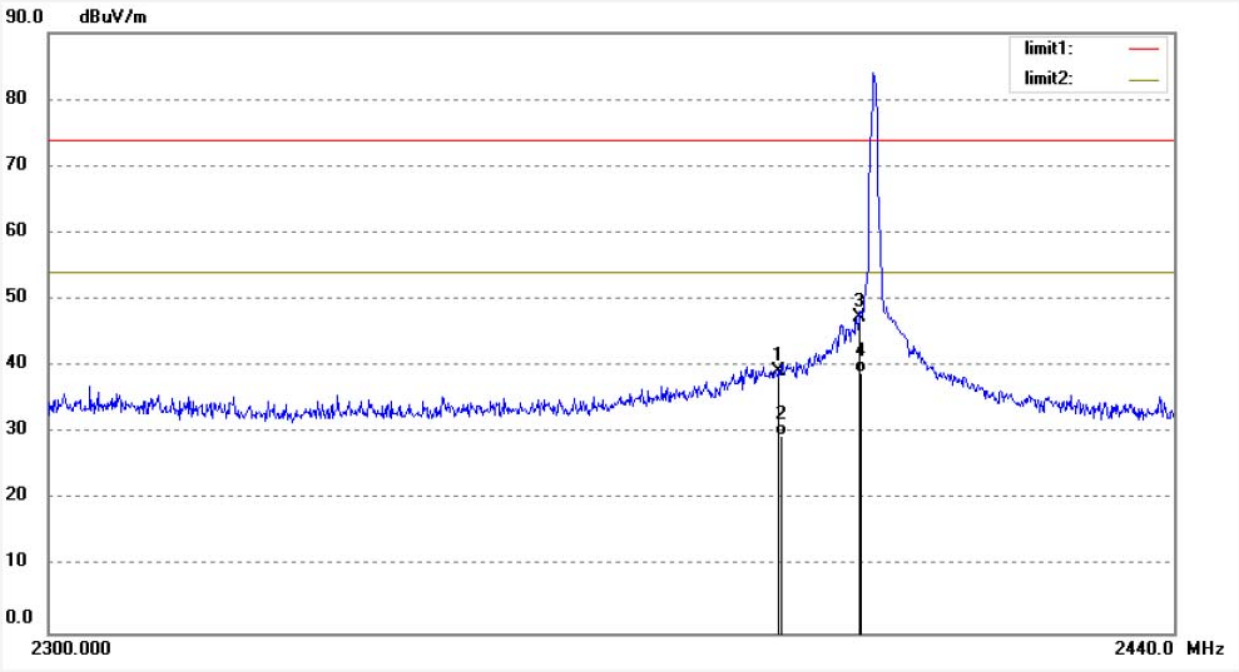
Job No.: STAR #3021	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/02/25/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/46/17
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report No.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.02	-6.78	39.24	74.00	-34.76	peak			
2	2390.000	36.30	-6.78	29.52	54.00	-24.48	AVG			
3	2400.000	54.15	-6.76	47.39	74.00	-26.61	peak			
4	2400.000	45.71	-6.76	38.95	54.00	-15.05	AVG			

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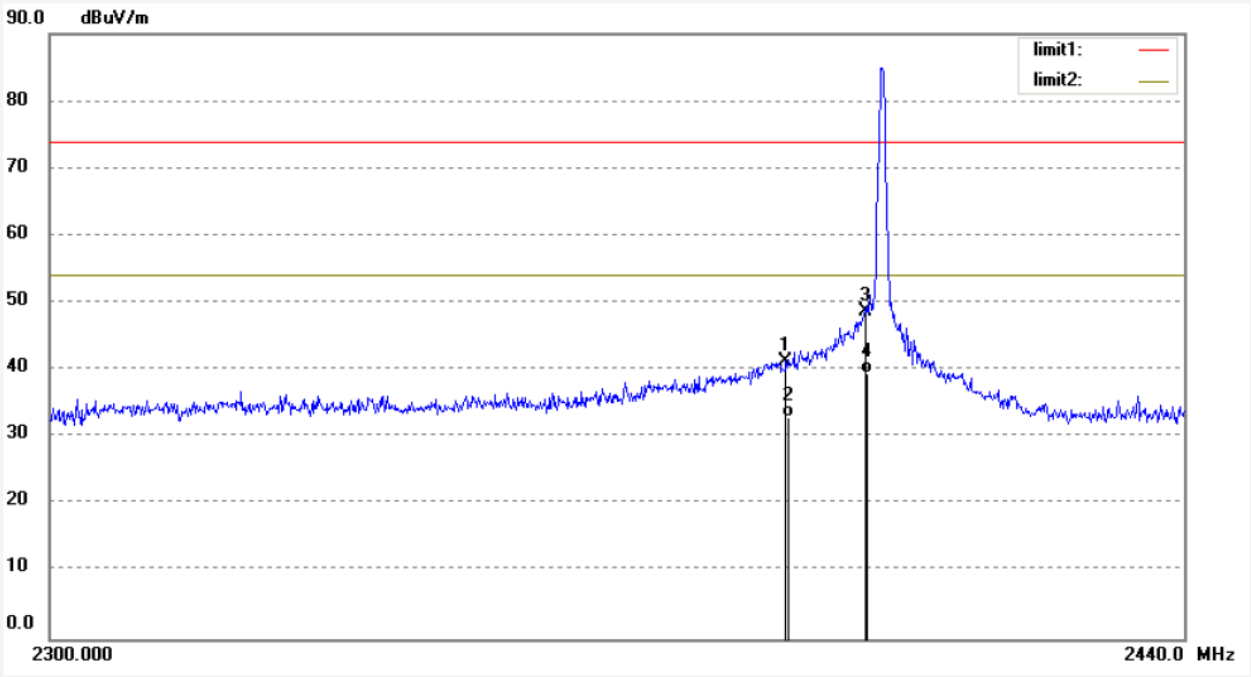
Job No.: STAR #3022	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/02/25/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/49/56
EUT: Portable printer	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report No.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	48.12	-6.78	41.34	74.00	-32.66	peak			
2	2390.000	39.76	-6.78	32.98	54.00	-21.02	AVG			
3	2400.000	55.45	-6.76	48.69	74.00	-25.31	peak			
4	2400.000	46.14	-6.76	39.38	54.00	-14.62	AVG			

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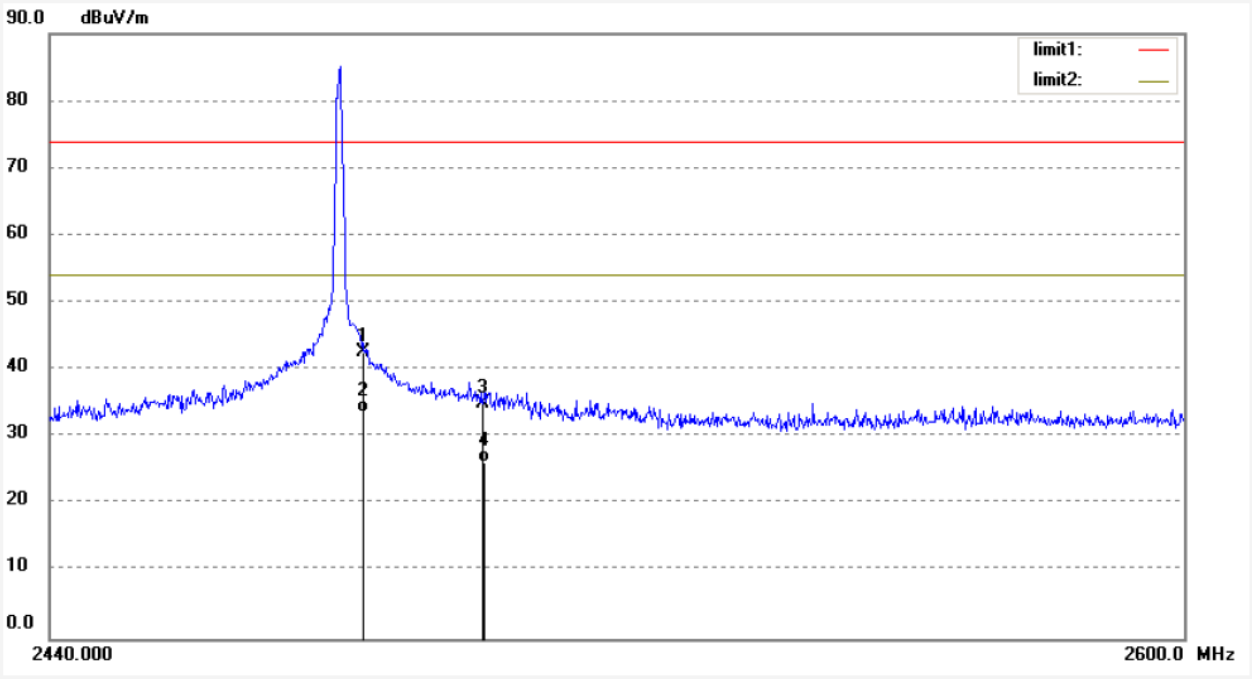
Job No.: STAR #3023	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/02/25/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/52/38
EUT: Portable printer	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report No.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.29	-6.54	42.75	74.00	-31.25	peak			
2	2483.500	40.25	-6.54	33.71	54.00	-20.29	AVG			
3	2500.000	41.41	-6.50	34.91	74.00	-39.09	peak			
4	2500.000	32.69	-6.50	26.19	54.00	-27.81	AVG			

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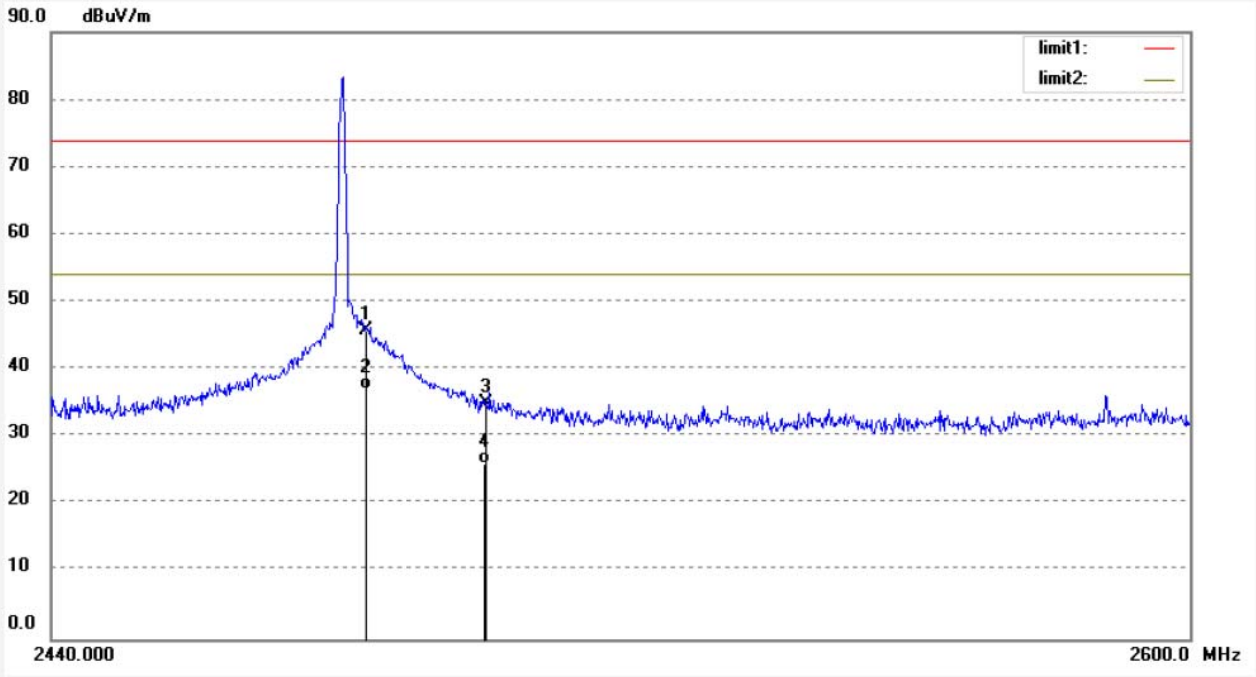
Job No.: STAR #3024
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Portable printer
Mode: TX 2480MHz
Model: XP-P100
Manufacturer: HONOR

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/02/25/
Time: 14/56/46
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	52.26	-6.54	45.72	74.00	-28.28	peak			
2	2483.500	43.56	-6.54	37.02	54.00	-16.98	AVG			
3	2500.000	41.52	-6.50	35.02	74.00	-38.98	peak			
4	2500.000	32.58	-6.50	26.08	54.00	-27.92	AVG			

Hopping mode

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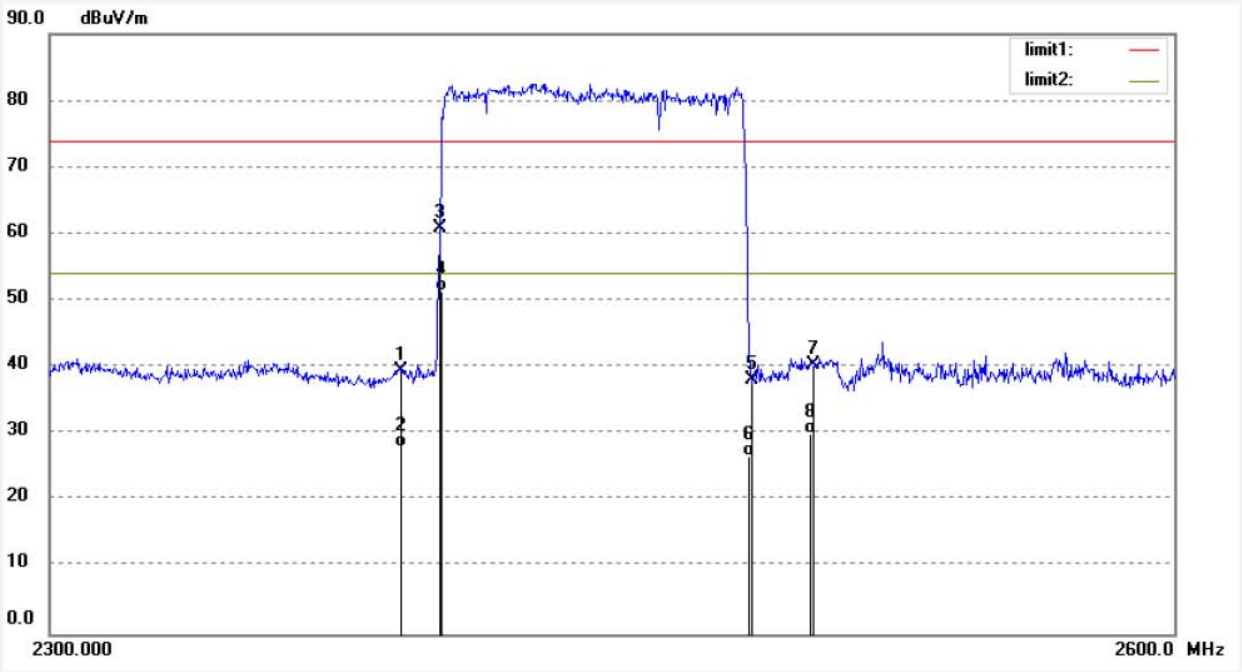
Job No.: STAR #3029	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/02/25/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/18/17
EUT: Portable printer	Engineer Signature:
Mode: HOPPING	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report No.:ATE20150286



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.28	-6.78	39.50	74.00	-34.50	peak			
2	2390.000	34.89	-6.78	28.11	54.00	-25.89	AVG			
3	2400.000	67.58	-6.76	60.82	74.00	-13.18	peak			
4	2400.000	58.14	-6.76	51.38	54.00	-2.62	AVG			
5	2483.500	44.59	-6.54	38.05	74.00	-35.95	peak			
6	2483.500	33.24	-6.54	26.70	54.00	-27.30	AVG			
7	2500.000	46.93	-6.50	40.43	74.00	-33.57	peak			
8	2500.000	36.43	-6.50	29.93	54.00	-24.07	AVG			

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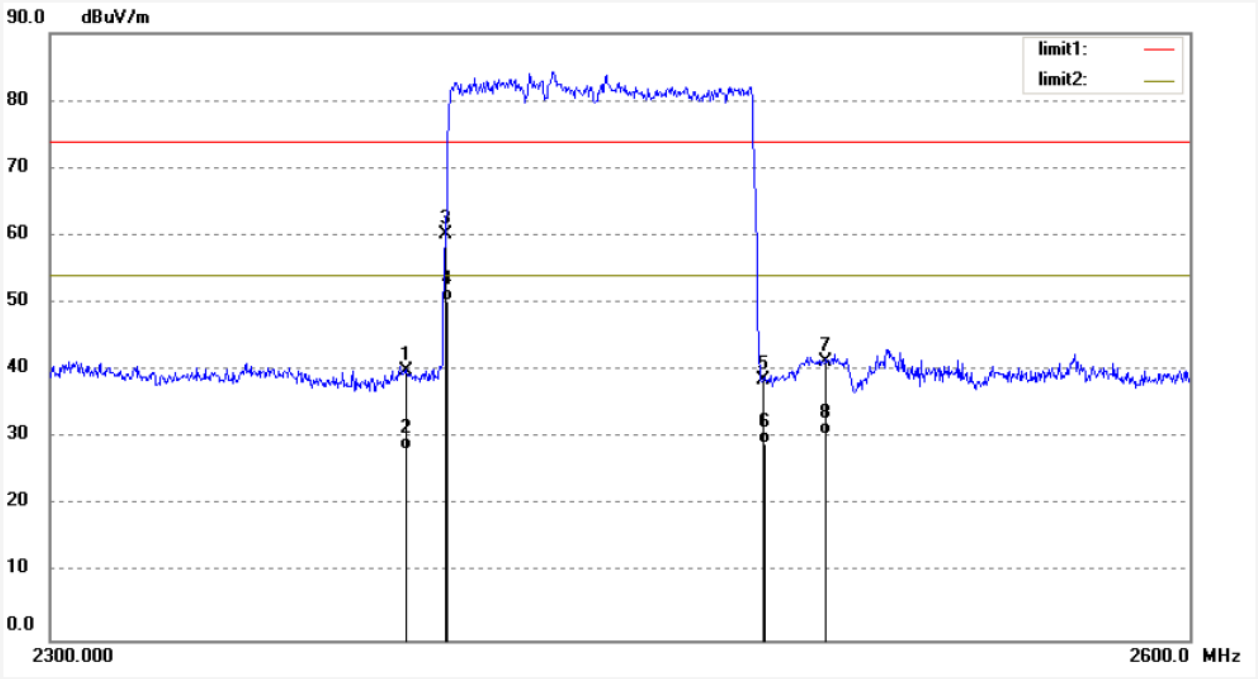
Job No.: STAR #3032	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/02/25/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/30/37
EUT: Portable printer	Engineer Signature:
Mode: HOPPING	Distance: 3m
Model: XP-P100	
Manufacturer: HONOR	

Note: Report No.:ATE20150286



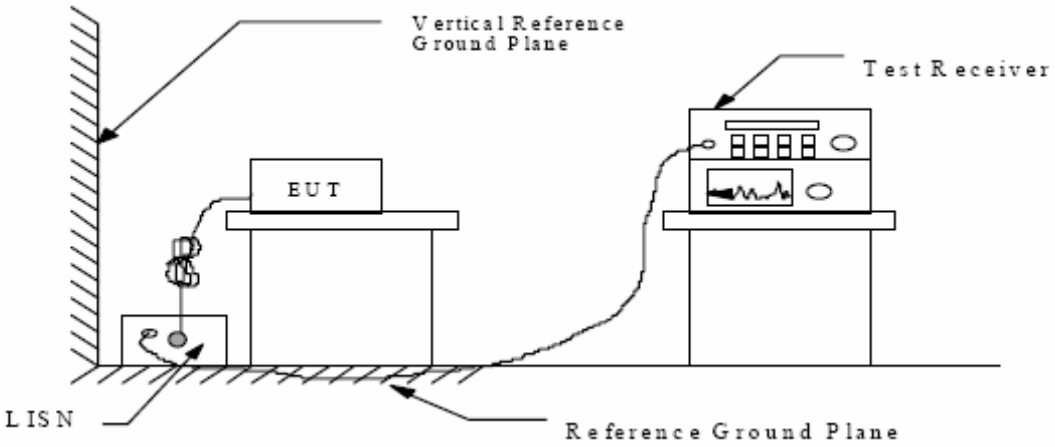
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.74	-6.78	39.96	74.00	-34.04	peak			
2	2390.000	35.10	-6.78	28.32	54.00	-25.68	AVG			
3	2400.000	67.04	-6.76	60.28	74.00	-13.72	peak			
4	2400.000	57.10	-6.76	50.34	54.00	-3.66	AVG			
5	2483.500	45.21	-6.54	38.67	74.00	-35.33	peak			
6	2483.500	35.66	-6.54	29.12	54.00	-24.88	AVG			
7	2500.000	47.76	-6.50	41.26	74.00	-32.74	peak			
8	2500.000	36.91	-6.50	30.41	54.00	-23.59	AVG			

12. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

12.1. Block Diagram of Test Setup

12.1.1. Block diagram of connection between the EUT and simulators

12.1.2. Shielding Room Test Setup Diagram



(EUT: Portable printer)

12.2. The Emission Limit

12.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

12.3.Configuration of EUT on Measurement

The equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 11.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in TX (Operation) mode measure it.

12.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4- 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

The frequency range from 150 kHz to 30MHz is checked.

12.6.Power Line Conducted Emission Measurement Results

ACCURATE TECHNOLOGY CO.,LTD

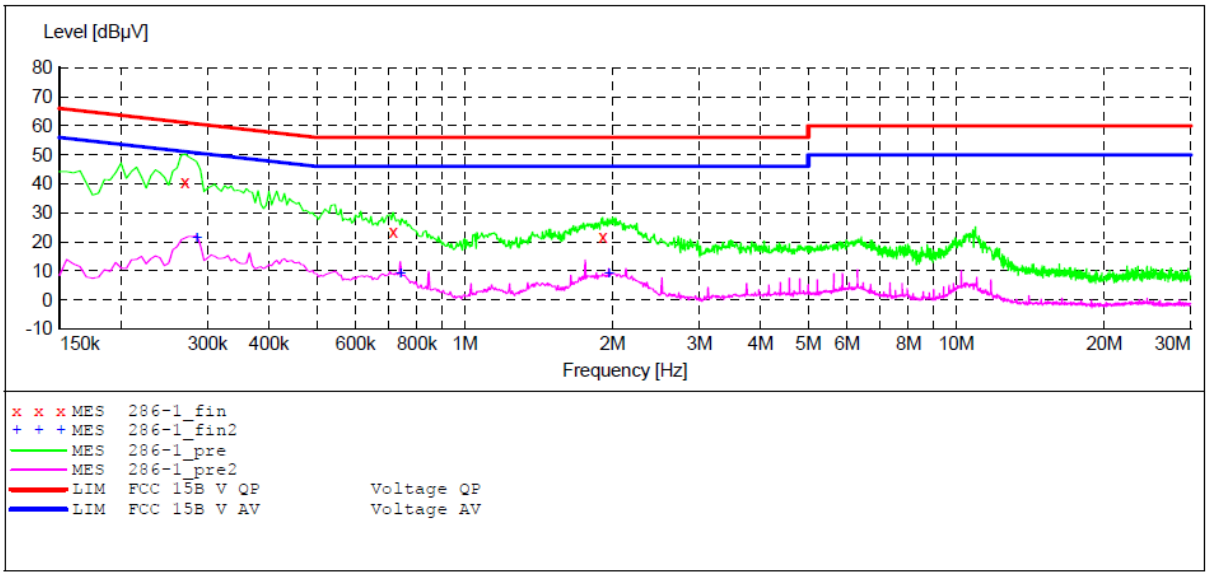
CONDUCTED EMISSION STANDARD FCC Part 15B

EUT: Portable Printer M/N:XP-P100
Manufacturer: HONOR
Operating Condition: BT
Test Site: 1#Shielding Room
Operator: Carry
Test Specification: L 120V/60Hz
Comment: Report NO.:ATE20150286
Start of Test: 2/10/2015 / 9:05:25AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "286-1_fin"

2/10/2015 9:12AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.270000	40.70	10.6	61	20.4	QP	L1	GND
0.715000	23.70	10.8	56	32.3	QP	L1	GND
1.910000	21.50	11.0	56	34.5	QP	L1	GND

MEASUREMENT RESULT: "286-1_fin2"

2/10/2015 9:12AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.285000	21.10	10.6	51	29.6	AV	L1	GND
0.740000	8.90	10.8	46	37.1	AV	L1	GND
1.965000	9.00	11.0	46	37.0	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

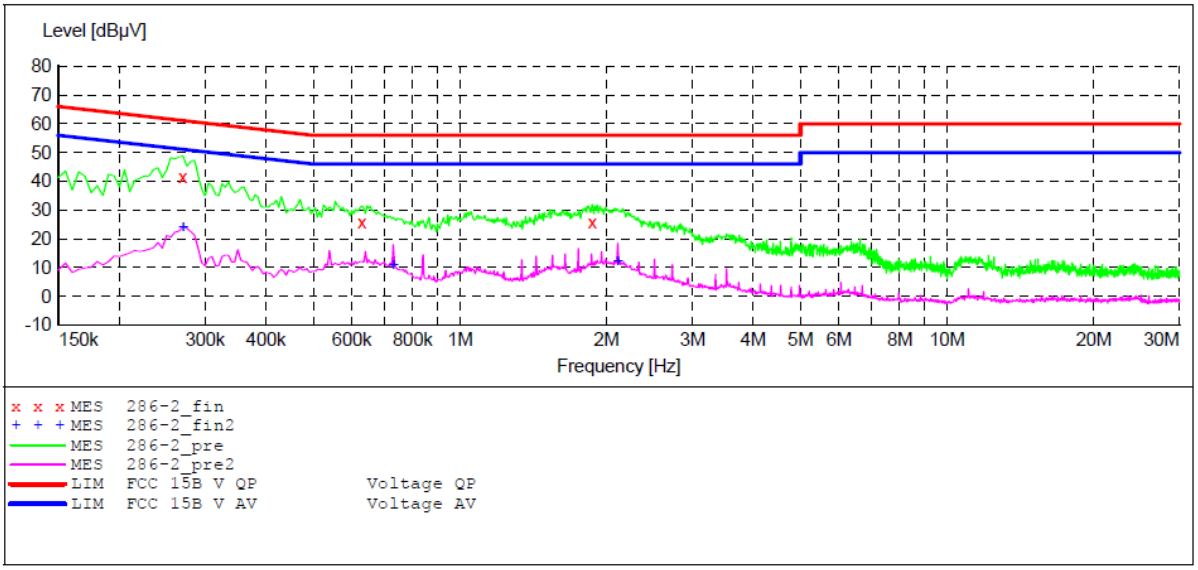
CONDUCTED EMISSION STANDARD FCC Part 15B

EUT: Portable Printer M/N:XP-P100
Manufacturer: HONOR
Operating Condition: BT
Test Site: 1#Shielding Room
Operator: Carry
Test Specification: N 120V/60Hz
Comment: Report NO.:ATE20150286
Start of Test: 2/10/2015 / 9:13:26AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "286-2_fin"

2/10/2015 9:16AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.270000	41.30	10.6	61	19.8	QP	N	GND
0.630000	25.80	10.8	56	30.2	QP	N	GND
1.870000	25.80	11.0	56	30.2	QP	N	GND

MEASUREMENT RESULT: "286-2_fin2"

2/10/2015 9:16AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.270000	23.90	10.6	51	27.2	AV	N	GND
0.730000	10.60	10.8	46	35.4	AV	N	GND
2.110000	12.00	11.0	46	34.0	AV	N	GND

13. ANTENNA REQUIREMENT

13.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2. Antenna Construction

The antenna is a permanent attached antenna, no consideration of replacement. The gain is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.