

**FCC - TEST REPORT**

Report Number : **4842025239900D** Date of Issue: 2025.04.27

Model : THP01-ZB-V5

Product Type : Dual Band Wireless Multi-mode Gateway

Applicant : Zhejiang Lingzhu Technology Co., Ltd.

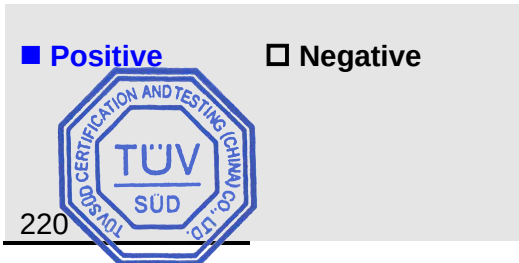
Address : Room 302, No 1 Building Huace Center, Xihu District 310000, Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA

Manufacturer : Zhejiang Lingzhu Technology Co., Ltd.

Address : Room 302, No 1 Building Huace Center, Xihu District 310000, Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : 220



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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2025.04.27

3 Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd.

Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu. China

Test Firm FCC
Registration
Number: 571980

Designation
number: CN1405

Telephone: +86 510 8820 3737
Fax: +86 510 8820 3636



4 Description of the Equipment under Test

Product:	Dual Band Wireless Multi-mode Gateway
Model no.:	THP01-ZB-V5
FCC ID:	2BEWX-THP01-ZB
Rating:	Gateway Input: DC 5V, 1A Adapter Input: 100-240V~, 50/60Hz, 0.25A Adapter Output: DC 5.0V, 1.0A, 5.0W
RF Transmission Frequency:	5G Wi-Fi: 5180~5240 MHz (U-NII-1), 5260~5320 MHz (U-NII-2A) 5500~5700 MHz (U-NII-2C), 5745~5825 MHz (U-NII-3) Note: The device shall not be capable of transmitting in the 5600-5650 MHz band. This restriction is for the protection of Terminal Doppler Weather Radar (TDWR) operating in this band.
No. of Operated Channel:	32
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM
Hardware Version:	V1.0.3
Software Version:	V1.0.0
Antenna Type:	Metal PCB Antenna
Antenna Gain:	2.14dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Dual Band Wireless Multi-mode Gateway which supports 2.4GHz & 5GHz Wi-Fi, Low Energy Bluetooth (1Mbps & 2Mbps data rate) and Zigbee functions. We tested it and listed the worst data in this report
Test sample no.:	WUX 0896895-002
Remark:	This report is only for 5G Wi-Fi

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain, or any information supplied.



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 Client Without DFS New Rules v01r02

ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of
Unlicensed Wireless Devices

6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C & E						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	13-15	Site 1	☒	☐	☐
§15.407(e)	Emission bandwidth	16-17	Site 1	☒	☐	☐
15.407(a)(i)	Maximum Conducted Output Power	18-19	Site 1	☒	☐	☐
15.407(a)(i)	Maximum Power Spectral Density	20	Site 1	☒	☐	☐
§15.407(g)	Frequencies Stability	21-26	Site 1	☒	☐	☐
§15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4), 15.407(b)(5), 15.407(b)(6), 15.407(b)(7), 15.209	Unwanted Emissions	27-136	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: The EUT operation at 5G Wi-Fi UNII (5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz). The EUT is Clients Device without Radar Detection.

Remark 2: The EUT does not support the TPC (Transmit Power Control) functionality.

Remark 3: N/A – Not Applicable.

Note 1: The EUT uses a Metal PCB Antenna, which gain is 2.14dBi for 5G Wi-Fi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BEWX-THP01-ZB complies with Section 15.203, 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E Rules.

This report is only for 5GHz Wi-Fi. The TX and RX range is 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2025.3.13

Testing Start Date: 2025.3.15

Testing End Date: 2025.4.15

- TÜV SÜD Certification and Testing (China) Co., Ltd.

Reviewed by:

Bo Dai
Review Engineer

Prepared by:

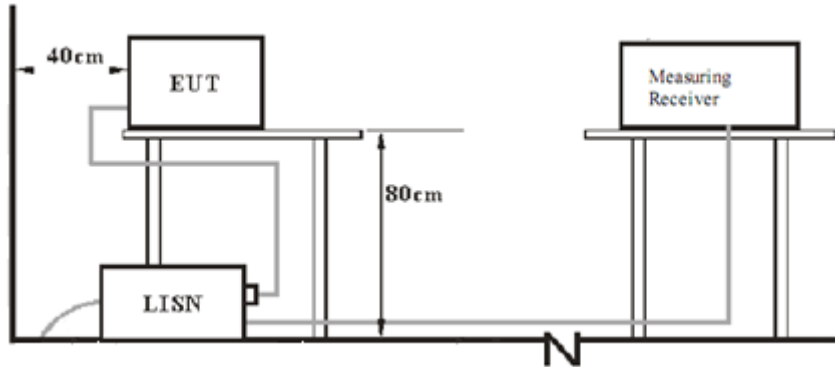
Xin Feng
Project Engineer

Tested by:

Zhihua Xia
Test Engineer

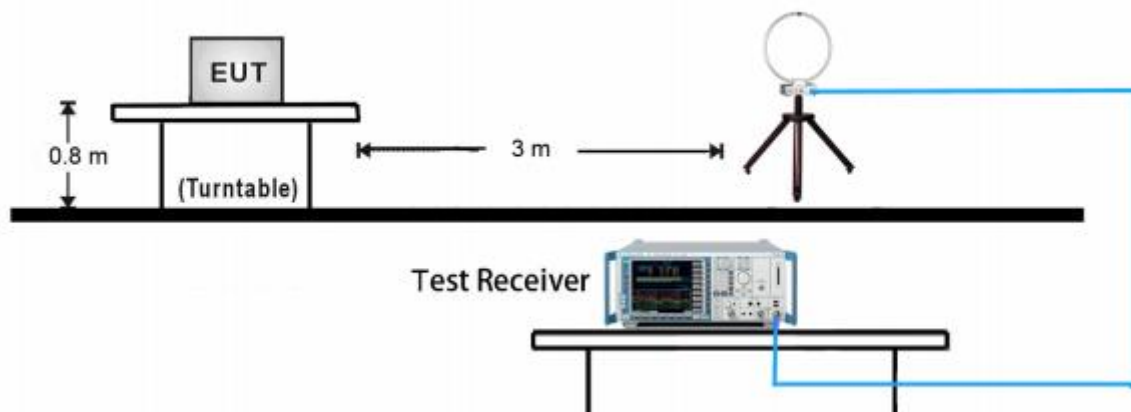
8 Test Setups

7.1 AC Power Line Conducted Emission test setups

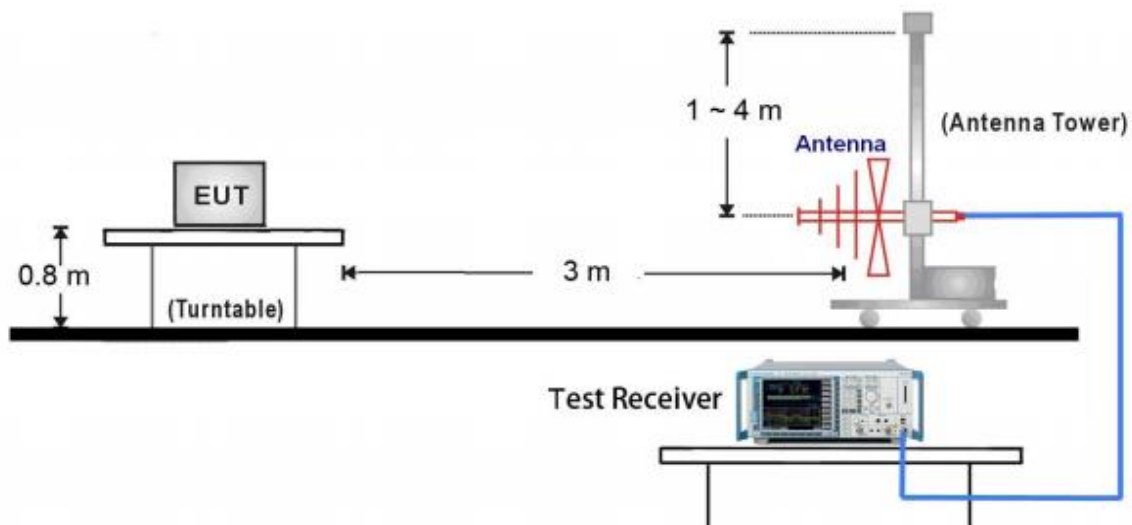


7.2 Radiated test setups

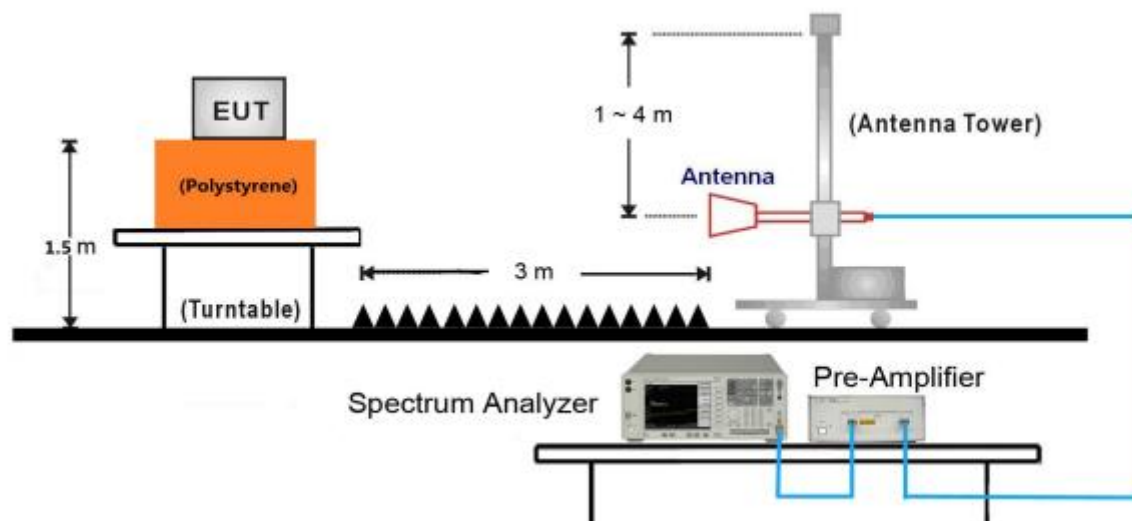
9kHz ~ 30MHz Test Setup:



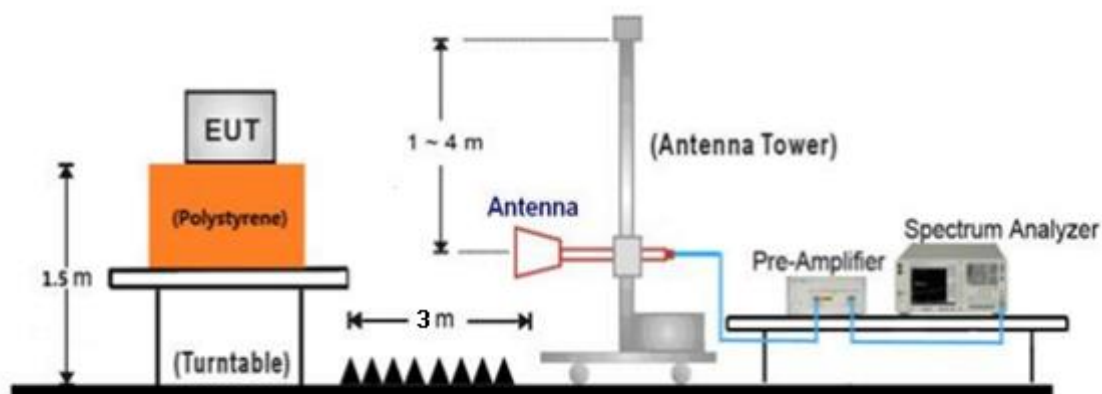
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

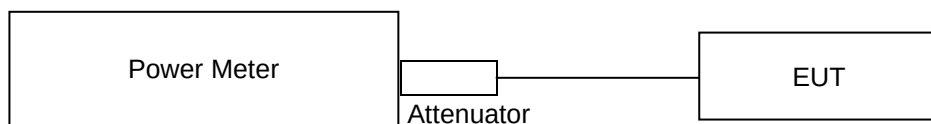


18GHz ~ 40GHz Test Setup:



7.3 Conducted RF test setups

For Conducted peak output power



For other test items



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Huawei	VLT-W50	2018AP1231

Test software: AmebaDPlus_MP_tool_1V6

The system was configured to channel:

Test Mode	Channel	Setting TX Power (Index value)	Frequency (MHz)
802.11a	36	94	5180
	40	92	5200
	48	88	5240
	52	78	5260
	60	90	5300
	64	78	5320
	100	73	5500
	116	69	5580
	140	69	5700
	149	71	5745
	157	73	5785
	165	69	5825
802.11n HT20	36	94	5180
	40	86	5200
	48	88	5240
	52	78	5260
	60	80	5300
	64	78	5320
	100	65	5500
	116	69	5580
	140	69	5700
	149	71	5745
	157	73	5785
	165	69	5825
802.11n HT40	38	88	5190
	46	88	5230
	54	80	5270
	62	80	5310
	102	66	5510
	110	84	5550
	134	75	5670
	151	72	5755
	159	75	5795

The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

Test Mode	Data Rate
802.11a	6Mbps
802.11n (HT20)	MCS0 (6.5Mbps)
802.11n (HT40)	MCS0 (13.5Mbps)

10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

Conducted Emission

150k-30MHz Conducted Emission Test

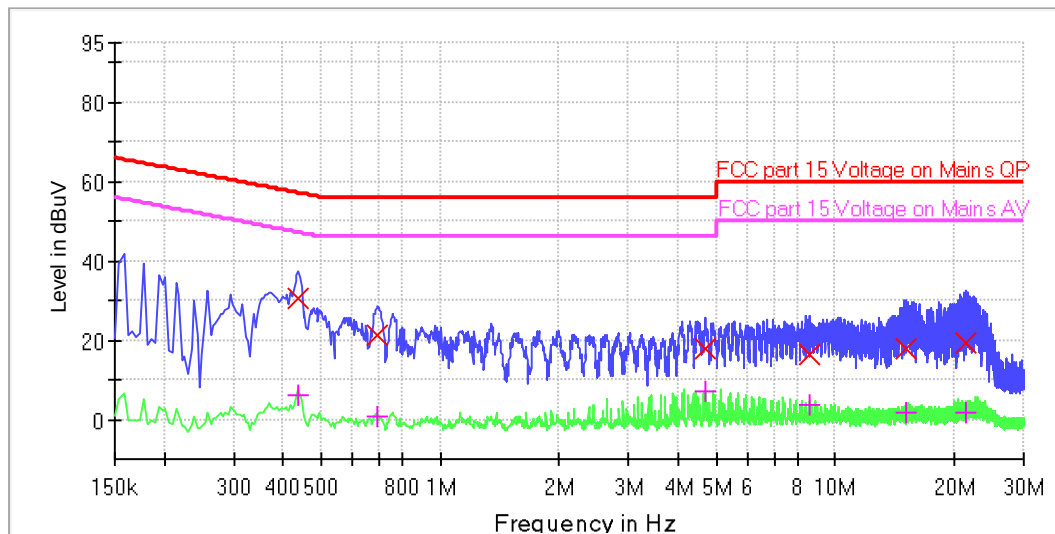
EUT Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating Conditions: Power on, 5G Wi-Fi transmitting, 802.11A 5500MHz
Operator Name: Zhihua Xia
Input: AC 120V 60Hz
Test Standard: FCC Part 15.207(a)
Comment: Phase L
Sample No.: WUX 0896895-002

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver: [ESW 8]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamplifier
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.438000	30.5	6.3	1000.0	9.000	10.1	26.6	57.1	40.8	47.1
0.694000	21.4	0.7	1000.0	9.000	10.1	34.6	56.0	45.3	46.0
4.686000	18.0	7.0	1000.0	9.000	10.3	38.0	56.0	39.0	46.0
8.650000	16.6	3.6	1000.0	9.000	10.4	43.4	60.0	46.4	50.0
15.178000	18.1	1.6	1000.0	9.000	10.6	41.9	60.0	48.4	50.0
21.466000	19.2	2.0	1000.0	9.000	10.6	40.8	60.0	48.0	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

150k-30MHz Conducted Emission Test

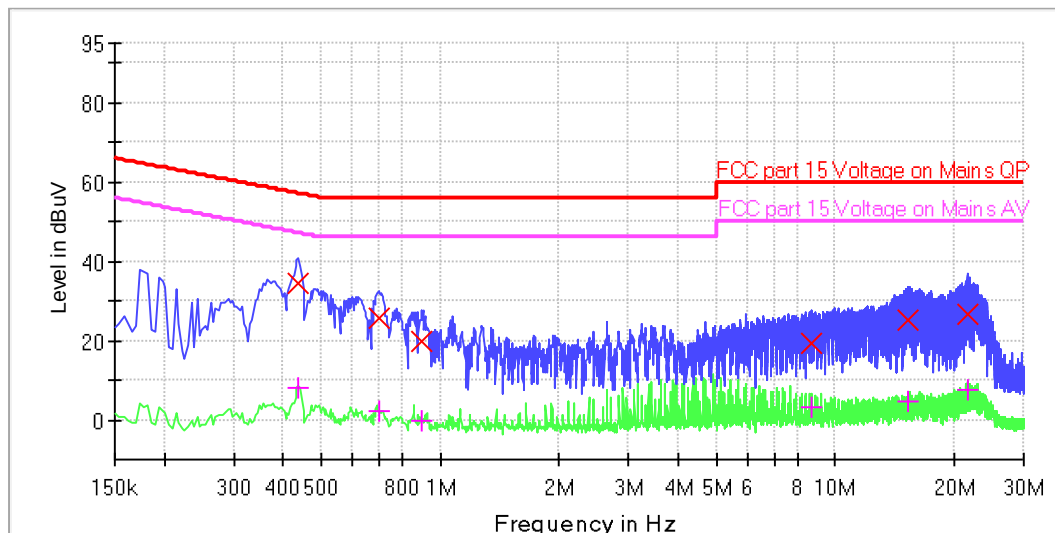
EUT Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating Conditions: Power on, 5G Wi-Fi transmitting, 802.11A 5500MHz
Operator Name: Zhihua Xia
Input: AC 120V 60Hz
Test Standard: FCC Part 15.207(a)
Comment: Phase N
Sample No.: WUX 0896895-002

Scan Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz Pre Fcc [EMI conducted]

Hardware Setup: Mains Voltage LISN 2 Lines 150kHz-30MHz_Fcc
Receiver: [ESW 8]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4 kHz	PK+ ; AVG	9 kHz	0.01 s	0 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - CAV (dB)	Limit - CAV (dBuV)
0.438000	34.3	7.9	1000.0	9.000	10.4	22.8	57.1	39.2	47.1
0.698000	25.6	2.4	1000.0	9.000	10.4	30.4	56.0	43.6	46.0
0.898000	19.8	0.0	1000.0	9.000	10.4	36.2	56.0	46.0	46.0
8.682000	19.2	3.2	1000.0	9.000	10.7	40.8	60.0	46.8	50.0
15.214000	25.3	4.8	1000.0	9.000	10.8	34.7	60.0	45.2	50.0
21.574000	26.8	7.7	1000.0	9.000	10.8	33.2	60.0	42.3	50.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

10.2 Emission bandwidth

The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.

1、 Test Method of 26dB Bandwidth

According to KDB789033 D02

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、 Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: $\geq 500\text{KHz}$

3、 Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \cdot$ RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit

Test result as below table:

Test Mode	Frequency [MHz]	26dB EBW [MHz]	6dB EBW [MHz]	OBW [MHz]	6dB EBW Limit [MHz]	26dB EBW & OBW Limit [MHz]	Verdict
11a	5180	22.158	N/A	16.635	---	---	PASS
	5200	22.197	N/A	16.614	---	---	PASS
	5240	22.440	N/A	16.630	---	---	PASS
	5260	21.996	N/A	16.617	---	---	PASS
	5300	22.644	N/A	16.652	---	---	PASS
	5320	22.122	N/A	16.611	---	---	PASS
	5500	22.461	N/A	16.639	---	---	PASS
	5580	22.257	N/A	16.629	---	---	PASS
	5700	22.131	N/A	16.613	---	---	PASS
	5745	N/A	16.320	16.628	0.5	---	PASS
	5785	N/A	16.332	16.636	0.5	---	PASS
	5825	N/A	16.323	16.613	0.5	---	PASS
11n HT20	5180	23.844	N/A	17.818	---	---	PASS
	5200	23.874	N/A	17.825	---	---	PASS
	5240	23.934	N/A	17.811	---	---	PASS
	5260	23.640	N/A	17.809	---	---	PASS
	5300	23.886	N/A	17.838	---	---	PASS
	5320	23.703	N/A	17.813	---	---	PASS
	5500	23.805	N/A	17.813	---	---	PASS
	5580	23.778	N/A	17.822	---	---	PASS
	5700	23.838	N/A	17.807	---	---	PASS
	5745	N/A	17.574	17.817	0.5	---	PASS
	5785	N/A	17.556	17.841	0.5	---	PASS
	5825	N/A	17.550	17.811	0.5	---	PASS
11n HT40	5190	38.328	N/A	35.939	---	---	PASS
	5230	38.430	N/A	36.026	---	---	PASS
	5270	38.418	N/A	35.956	---	---	PASS
	5310	38.424	N/A	35.99	---	---	PASS
	5510	38.370	N/A	35.956	---	---	PASS
	5550	38.676	N/A	36.023	---	---	PASS
	5670	38.598	N/A	36.079	---	---	PASS
	5755	N/A	35.040	35.953	0.5	---	PASS
	5795	N/A	35.784	36.041	0.5	---	PASS

For test graphs please refer to Appendix A.

10.3 Maximum conducted output power

Test Method

According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

1. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
The EUT is configured to transmit continuously or to transmit with a consistent duty cycle. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
2. If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in 12.2 in C63.10-2020.
3. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
4. Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Test Result

Test Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)	Verdict
11a	5180	13.47	1.74	15.21	24	PASS
	5200	13.16	1.74	14.90	24	PASS
	5240	11.91	1.74	13.65	24	PASS
	5260	11.15	1.75	12.90	24	PASS
	5300	13.70	1.74	15.44	24	PASS
	5320	11.70	1.75	13.45	24	PASS
	5500	13.78	1.75	15.53	24	PASS
	5580	12.13	1.74	13.87	24	PASS
	5700	11.84	1.74	13.58	24	PASS
	5745	11.64	1.75	13.39	30	PASS
	5785	10.88	1.75	12.63	30	PASS
	5825	9.79	1.75	11.54	30	PASS
11n HT20	5180	13.28	1.85	15.13	24	PASS
	5200	11.75	1.84	13.59	24	PASS
	5240	11.77	1.84	13.61	24	PASS
	5260	11.74	1.85	13.59	24	PASS
	5300	11.65	1.85	13.50	24	PASS
	5320	11.60	1.85	13.45	24	PASS
	5500	11.59	1.85	13.44	24	PASS
	5580	11.87	1.85	13.72	24	PASS
	5700	11.68	1.85	13.53	24	PASS
	5745	11.52	1.85	13.37	30	PASS
	5785	11.37	1.85	13.22	30	PASS
	5825	11.97	1.85	13.82	30	PASS
11n HT40	5190	10.52	3.17	13.69	24	PASS
	5230	10.13	3.17	13.30	24	PASS
	5270	10.07	3.17	13.24	24	PASS
	5310	10.19	3.17	13.36	24	PASS
	5510	10.16	3.17	13.33	24	PASS
	5550	14.00	3.17	17.17	24	PASS
	5670	13.39	3.17	16.56	24	PASS
	5755	10.36	3.17	13.53	30	PASS
	5795	10.37	3.17	13.54	30	PASS

10.4 Maximum power spectral density

Test Method (Method SA-2 in C63.10-2020)

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement. (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. Measure the duty cycle.
2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq$ 2 Span / RBW.
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging mode.
9. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

Limit:

The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

Test Result: Pass

For test result and graphs please refer to Appendix B.

10.5 Frequencies Stability

Test Method

1. Connect the UUT to the spectrum analyzer
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 0°C to 40°C, normal Temperature is +25°C.

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)

Remark: NV is normal Voltage: 120V~, HV is High Voltage: 138V~, LV is Low Voltage: 102V~, NT is normal Temperature: +25 °C.

Test Mode	Frequency (MHz)	Voltage [V~]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11a	5180	120	NT	-40000	-7.72	± 20ppm	PASS
		138	NT	-20000	-3.86	± 20ppm	PASS
		102	NT	-20000	-3.86	± 20ppm	PASS
		NV	0	-20000	-3.86	± 20ppm	PASS
		NV	10	-40000	-7.72	± 20ppm	PASS
		NV	30	-40000	-7.72	± 20ppm	PASS
		NV	40	-20000	-3.86	± 20ppm	PASS
	5200	120	NT	-40000	-7.69	± 20ppm	PASS
		138	NT	-20000	-3.85	± 20ppm	PASS
		102	NT	-20000	-3.85	± 20ppm	PASS
		NV	0	-20000	-3.85	± 20ppm	PASS
		NV	10	-20000	-3.85	± 20ppm	PASS
		NV	30	-40000	-7.69	± 20ppm	PASS
		NV	40	-20000	-3.85	± 20ppm	PASS
	5240	120	NT	-60000	-11.45	± 20ppm	PASS
		138	NT	-60000	-11.45	± 20ppm	PASS
		102	NT	-60000	-11.45	± 20ppm	PASS
		NV	0	-20000	-3.82	± 20ppm	PASS
		NV	10	-40000	-7.63	± 20ppm	PASS
		NV	30	-20000	-3.82	± 20ppm	PASS
		NV	40	-20000	-3.82	± 20ppm	PASS
	5260	120	NT	-40000	-7.60	± 20ppm	PASS
		138	NT	-40000	-7.60	± 20ppm	PASS
		102	NT	-40000	-7.60	± 20ppm	PASS
		NV	0	-20000	-3.80	± 20ppm	PASS
		NV	10	-20000	-3.80	± 20ppm	PASS
		NV	30	-40000	-7.60	± 20ppm	PASS
		NV	40	-20000	-3.80	± 20ppm	PASS
	5300	120	NT	-40000	-7.55	± 20ppm	PASS
		138	NT	-40000	-7.55	± 20ppm	PASS
		102	NT	-20000	-3.77	± 20ppm	PASS
		NV	0	-20000	-3.77	± 20ppm	PASS
		NV	10	-20000	-3.77	± 20ppm	PASS
		NV	30	-40000	-7.55	± 20ppm	PASS
		NV	40	-20000	-3.77	± 20ppm	PASS
	5320	120	NT	-40000	-7.52	± 20ppm	PASS
		138	NT	-20000	-3.76	± 20ppm	PASS
		102	NT	-40000	-7.52	± 20ppm	PASS
		NV	0	-20000	-3.76	± 20ppm	PASS
		NV	10	-20000	-3.76	± 20ppm	PASS
		NV	30	-20000	-3.76	± 20ppm	PASS
		NV	40	-40000	-7.52	± 20ppm	PASS
	5500	120	NT	-60000	-10.91	± 20ppm	PASS
		138	NT	-40000	-7.27	± 20ppm	PASS
		102	NT	-40000	-7.27	± 20ppm	PASS
		NV	0	-40000	-7.27	± 20ppm	PASS
		NV	10	-20000	-3.64	± 20ppm	PASS
		NV	30	-40000	-7.27	± 20ppm	PASS

	5580	NV	40	-40000	-7.27	± 20ppm	PASS
		120	NT	-40000	-7.17	± 20ppm	PASS
		138	NT	-20000	-3.58	± 20ppm	PASS
		102	NT	-40000	-7.17	± 20ppm	PASS
		NV	0	-20000	-3.58	± 20ppm	PASS
		NV	10	-40000	-7.17	± 20ppm	PASS
		NV	30	-20000	-3.58	± 20ppm	PASS
		NV	40	-20000	-3.58	± 20ppm	PASS
	5700	120	NT	-40000	-7.02	± 20ppm	PASS
		138	NT	-40000	-7.02	± 20ppm	PASS
		102	NT	-20000	-3.51	± 20ppm	PASS
		NV	0	-40000	-7.02	± 20ppm	PASS
		NV	10	-40000	-7.02	± 20ppm	PASS
		NV	30	-40000	-7.02	± 20ppm	PASS
		NV	40	-40000	-7.02	± 20ppm	PASS
	5745	120	NT	-20000	-3.48	± 20ppm	PASS
		138	NT	-20000	-3.48	± 20ppm	PASS
		102	NT	-20000	-3.48	± 20ppm	PASS
		NV	0	-20000	-3.48	± 20ppm	PASS
		NV	10	-20000	-3.48	± 20ppm	PASS
		NV	30	-20000	-3.48	± 20ppm	PASS
		NV	40	-40000	-6.96	± 20ppm	PASS
	5785	120	NT	-40000	-6.91	± 20ppm	PASS
		138	NT	-40000	-6.91	± 20ppm	PASS
		102	NT	-20000	-3.46	± 20ppm	PASS
		NV	0	-20000	-3.46	± 20ppm	PASS
		NV	10	-20000	-3.46	± 20ppm	PASS
		NV	30	-40000	-6.91	± 20ppm	PASS
		NV	40	-40000	-6.91	± 20ppm	PASS
	5825	120	NT	-40000	-6.87	± 20ppm	PASS
		138	NT	-20000	-3.43	± 20ppm	PASS
		102	NT	-20000	-3.43	± 20ppm	PASS
		NV	0	-20000	-3.43	± 20ppm	PASS
		NV	10	-40000	-6.87	± 20ppm	PASS
		NV	30	-40000	-6.87	± 20ppm	PASS
		NV	40	-40000	-6.87	± 20ppm	PASS
11n HT20	5180	120	NT	-20000	-3.86	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	-20000	-3.86	± 20ppm	PASS
		NV	0	-20000	-3.86	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5200	120	NT	-60000	-11.54	± 20ppm	PASS
		138	NT	-60000	-11.54	± 20ppm	PASS
		102	NT	-60000	-11.54	± 20ppm	PASS
		NV	0	-40000	-7.69	± 20ppm	PASS
		NV	10	-40000	-7.69	± 20ppm	PASS
		NV	30	-60000	-11.54	± 20ppm	PASS

	5240	NV	40	-60000	-11.54	± 20ppm	PASS
		120	NT	-20000	-3.82	± 20ppm	PASS
		138	NT	-20000	-3.82	± 20ppm	PASS
		102	NT	-20000	-3.82	± 20ppm	PASS
		NV	0	-20000	-3.82	± 20ppm	PASS
		NV	10	-40000	-7.63	± 20ppm	PASS
		NV	30	-40000	-7.63	± 20ppm	PASS
	5260	NV	40	-20000	-3.82	± 20ppm	PASS
		120	NT	-40000	-7.60	± 20ppm	PASS
		138	NT	-40000	-7.60	± 20ppm	PASS
		102	NT	-40000	-7.60	± 20ppm	PASS
		NV	0	-40000	-7.60	± 20ppm	PASS
		NV	10	-40000	-7.60	± 20ppm	PASS
		NV	30	-20000	-3.80	± 20ppm	PASS
	5300	NV	40	-20000	-3.80	± 20ppm	PASS
		120	NT	-20000	-3.77	± 20ppm	PASS
		138	NT	-20000	-3.77	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	-20000	-3.77	± 20ppm	PASS
		NV	30	-20000	-3.77	± 20ppm	PASS
	5320	NV	40	-20000	-3.77	± 20ppm	PASS
		120	NT	-40000	-7.52	± 20ppm	PASS
		138	NT	-40000	-7.52	± 20ppm	PASS
		102	NT	-20000	-3.76	± 20ppm	PASS
		NV	0	-20000	-3.76	± 20ppm	PASS
		NV	10	-40000	-7.52	± 20ppm	PASS
		NV	30	-40000	-7.52	± 20ppm	PASS
	5500	NV	40	-40000	-7.52	± 20ppm	PASS
		120	NT	-40000	-7.27	± 20ppm	PASS
		138	NT	-40000	-7.27	± 20ppm	PASS
		102	NT	-40000	-7.27	± 20ppm	PASS
		NV	0	-20000	-3.64	± 20ppm	PASS
		NV	10	-20000	-3.64	± 20ppm	PASS
		NV	30	-40000	-7.27	± 20ppm	PASS
	5580	NV	40	-20000	-3.64	± 20ppm	PASS
		120	NT	-40000	-7.17	± 20ppm	PASS
		138	NT	-40000	-7.17	± 20ppm	PASS
		102	NT	-40000	-7.17	± 20ppm	PASS
		NV	0	-40000	-7.17	± 20ppm	PASS
		NV	10	-40000	-7.17	± 20ppm	PASS
		NV	30	-40000	-7.17	± 20ppm	PASS
	5700	NV	40	-40000	-7.17	± 20ppm	PASS
		120	NT	-20000	-3.51	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	-20000	-3.51	± 20ppm	PASS
		NV	0	-20000	-3.51	± 20ppm	PASS
		NV	10	-20000	-3.51	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS



	5745	NV	40	-20000	-3.51	± 20ppm	PASS
		120	NT	-40000	-6.96	± 20ppm	PASS
		138	NT	-20000	-3.48	± 20ppm	PASS
		102	NT	-20000	-3.48	± 20ppm	PASS
		NV	0	-40000	-6.96	± 20ppm	PASS
		NV	10	-40000	-6.96	± 20ppm	PASS
		NV	30	-40000	-6.96	± 20ppm	PASS
		NV	40	-40000	-6.96	± 20ppm	PASS
	5785	120	NT	-20000	-3.46	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	-20000	-3.46	± 20ppm	PASS
		NV	0	-20000	-3.46	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	-20000	-3.46	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5825	120	NT	-20000	-3.43	± 20ppm	PASS
		138	NT	-20000	-3.43	± 20ppm	PASS
		102	NT	-20000	-3.43	± 20ppm	PASS
		NV	0	-20000	-3.43	± 20ppm	PASS
		NV	10	-20000	-3.43	± 20ppm	PASS
		NV	30	-20000	-3.43	± 20ppm	PASS
		NV	40	-20000	-3.43	± 20ppm	PASS
11n HT40	5190	120	NT	0	0	± 20ppm	PASS
		138	NT	-20000	-3.85	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	-20000	-3.85	± 20ppm	PASS
	5230	120	NT	0	0	± 20ppm	PASS
		138	NT	-20000	-3.82	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5270	120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5310	120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS



	5510	NV	40	0	0	± 20ppm	PASS
		120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	-20000	-3.63	± 20ppm	PASS
	5550	120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5670	120	NT	-80000	-14.11	± 20ppm	PASS
		138	NT	-60000	-10.58	± 20ppm	PASS
		102	NT	-60000	-10.58	± 20ppm	PASS
		NV	0	-60000	-10.58	± 20ppm	PASS
		NV	10	-60000	-10.58	± 20ppm	PASS
		NV	30	-60000	-10.58	± 20ppm	PASS
		NV	40	-60000	-10.58	± 20ppm	PASS
	5755	120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	-20000	-3.48	± 20ppm	PASS
		NV	0	0	0	± 20ppm	PASS
		NV	10	0	0	± 20ppm	PASS
		NV	30	-20000	-3.48	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS
	5795	120	NT	0	0	± 20ppm	PASS
		138	NT	0	0	± 20ppm	PASS
		102	NT	0	0	± 20ppm	PASS
		NV	0	-20000	-3.45	± 20ppm	PASS
		NV	10	-20000	-3.45	± 20ppm	PASS
		NV	30	0	0	± 20ppm	PASS
		NV	40	0	0	± 20ppm	PASS

10.6 Unwanted emissions

Transmitting spurious emission test result as below:

Radiated Spurious Emission Test Method:

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned
5. Use the following spectrum analyzer settings According to C63.10:
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - 2) For Above 1GHz:
Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - 3) Procedures for Average Unwanted Emissions Measurements above 1000 MHz
 - a) RBW = 1 MHz.
 - b) VBW $\geq$ [3 $\times$ RBW].
 - c) Detector = Power averaging (rms), if [span / (# of points in sweep)] $\leq$ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the

emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

(1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

(2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBuV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to part 15.407b (1) (2) (3) (4)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

According to part 15.407b (9), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

According to part 15.407b (10), The provisions of §15.205 apply to intentional radiators operating under this section.

Note: According to C63.10, the Conversion Factors between E[dBuV/m] and EIRP[dBm] as below: $E[dBuV/m] = EIRP[dBm] + 95.2$, for d = 3 meters.



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Data of measurement within frequency ranges 9kHz-30MHz are the noise floor or attenuated more than 20dB below the permissible limit or the field strength is too small to be measured, so test data does not present in this report.

Radiated Mode:

Transmitting spurious emission test result as below:

The worst case of Radiated Emission below 1GHz:

30-1000MHz Radiated Emission

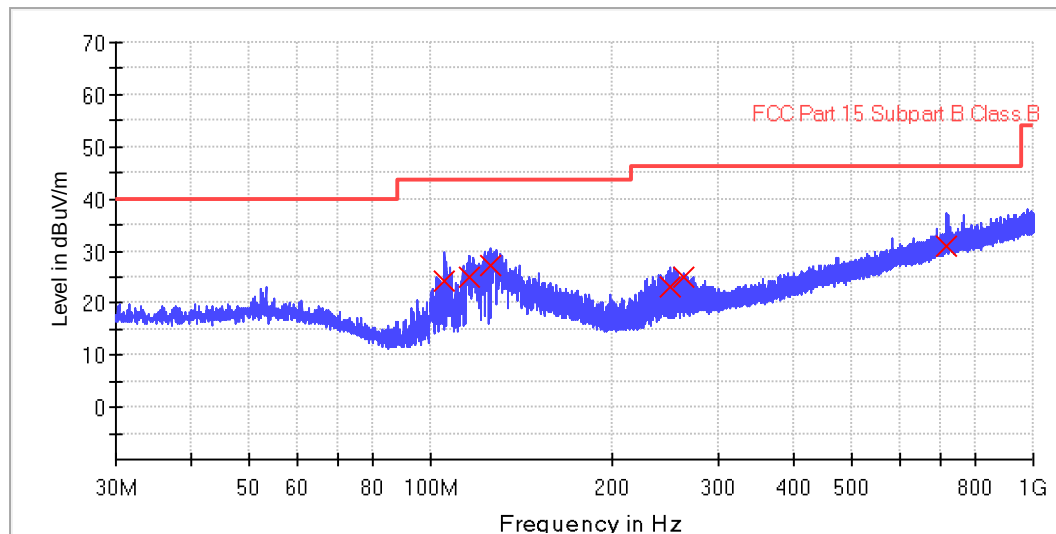
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11N HT20 5500MHz
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.209(a)
Comment: Horizontal

Sweep Setup: RE_30M-1G_Sweep_3m [EMI radiated]

Hardware Setup: Radiated E Field 30MHz-1GHz_3m
Receiver: [ESR 3]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	40.417 kHz	PK+	120 kHz	1.5 s	20 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
105.600000	24.3	120.000	200.0	H	68.7	17.4	19.3	43.5
115.440000	25.1	120.000	200.0	H	135.6	18.4	18.4	43.5
125.200000	27.3	120.000	200.0	H	224.4	19.5	16.3	43.5
249.800000	23.3	120.000	200.0	H	345.2	20.5	22.7	46.0
262.600000	25.0	120.000	200.0	H	221.9	20.9	21.0	46.0
719.480000	30.8	120.000	200.0	H	201.0	32.2	15.3	46.0

30-1000MHz Radiated Emission

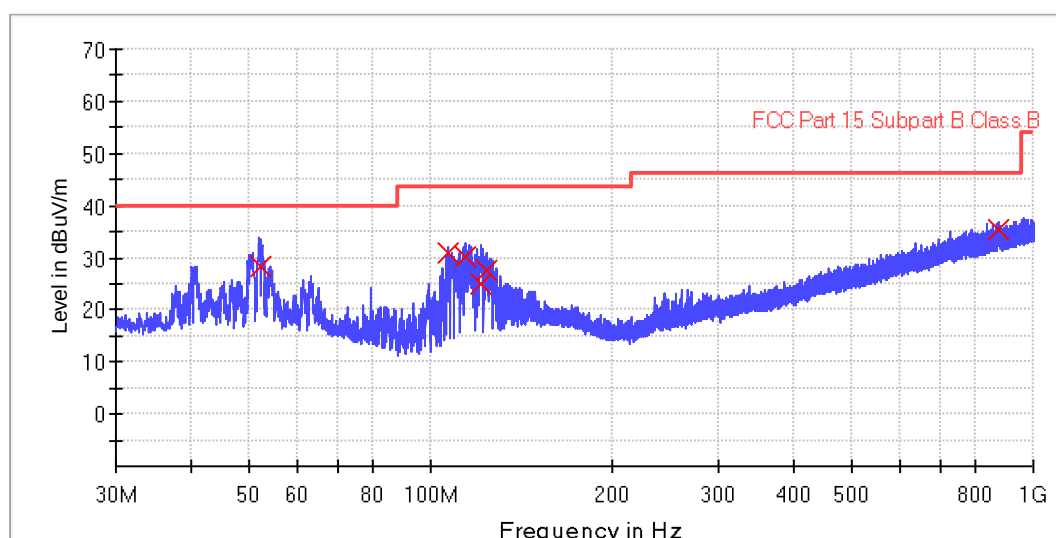
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11N HT20 5500MHz
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.209(a)
Comment: Vertical

Sweep Setup: RE_30M-1G_Sweep_3m [EMI radiated]

Hardware Setup: Radiated E Field 30MHz-1GHz_3m
Receiver: [ESR 7]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	40.417 kHz	PK+	120 kHz	1.5 s	20 dB



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
52.000000	28.2	120.000	100.0	V	202.3	21.0	11.8	40.0
106.520000	30.8	120.000	100.0	V	332.3	17.5	12.7	43.5
113.920000	30.3	120.000	100.0	V	64.2	18.3	13.3	43.5
121.000000	25.1	120.000	100.0	V	124.2	19.1	18.5	43.5
123.600000	27.6	120.000	100.0	V	182.8	19.4	16.0	43.5
874.080000	35.5	120.000	100.0	V	270.4	34.5	10.5	46.0

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Radiated Emission 1GHz-18GHz:

1-18G Radiated Emission Test

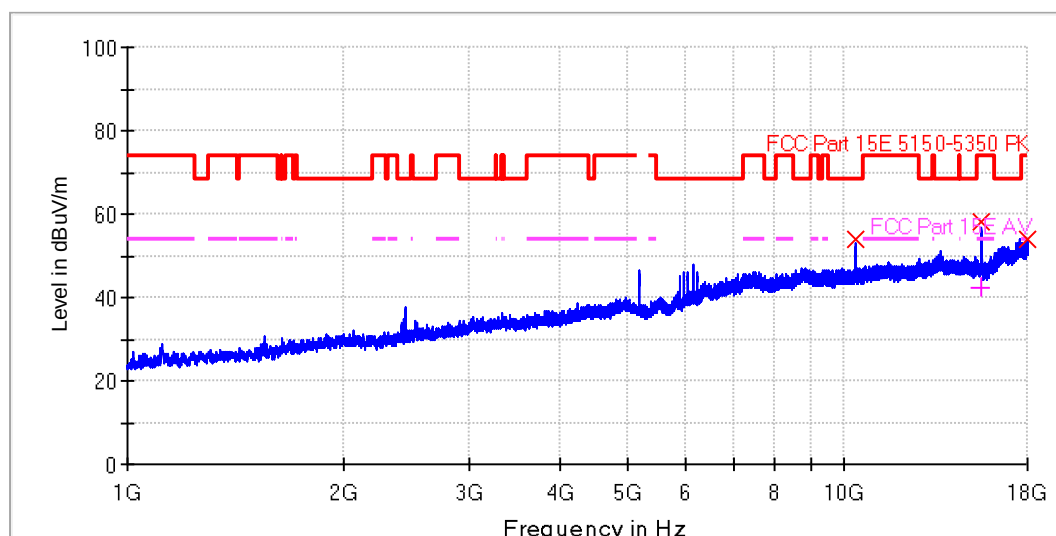
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5180M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

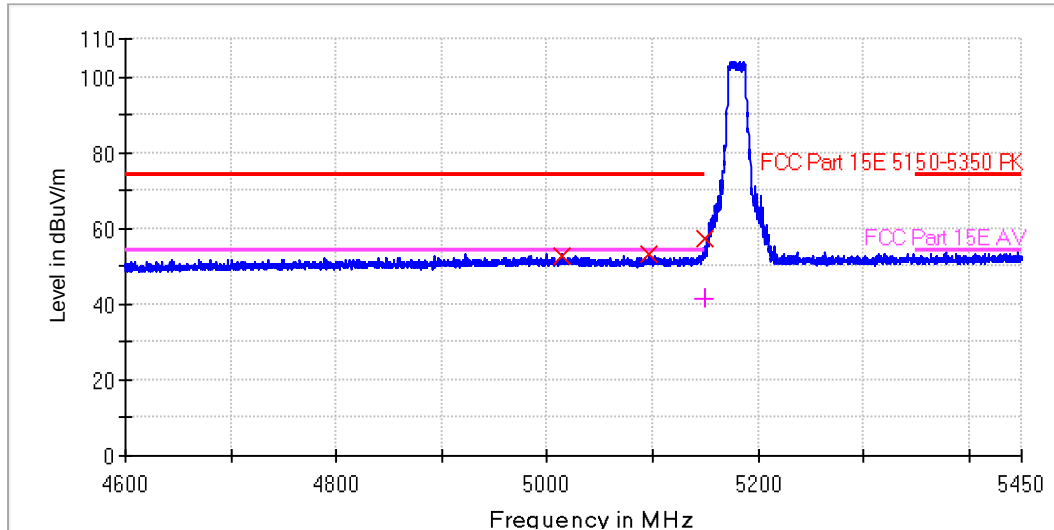
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10360.500000	54.2	---	150.0	H	107.0	12.5	14.0	68.2	---	---
15538.000000	58.3	42.3	150.0	H	91.0	15.3	15.7	74.0	11.8	54.0
17971.500000	54.0	---	150.0	H	138.0	22.1	20.1	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5014.500000	52.8	---	150.0	H	345.5	9.4	21.2	74.0	---	---
5097.000000	53.0	---	150.0	H	72.7	9.5	21.0	74.0	---	---
5149.500000	57.6	41.6	150.0	H	140.7	9.6	16.5	74.0	12.4	54.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

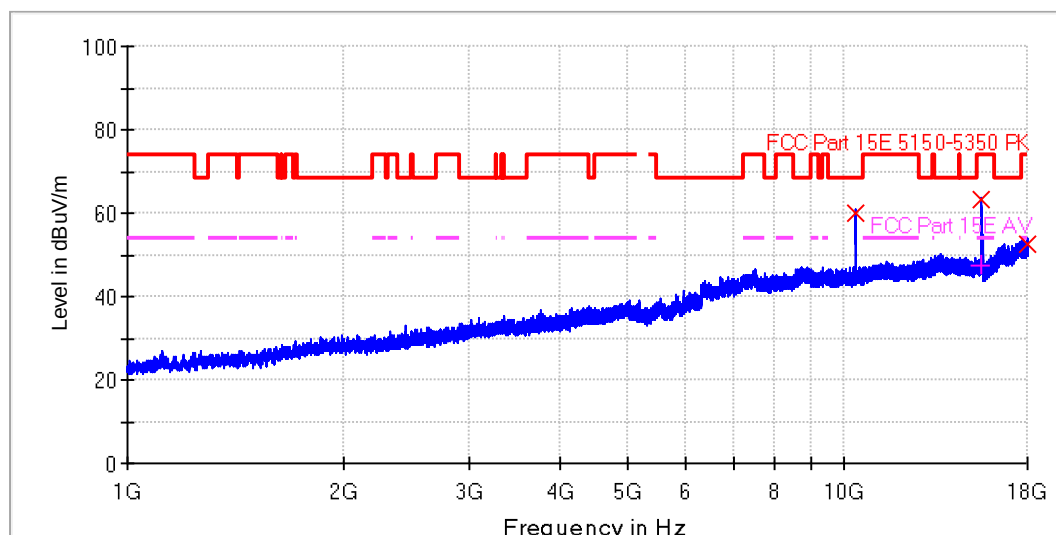
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5180M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

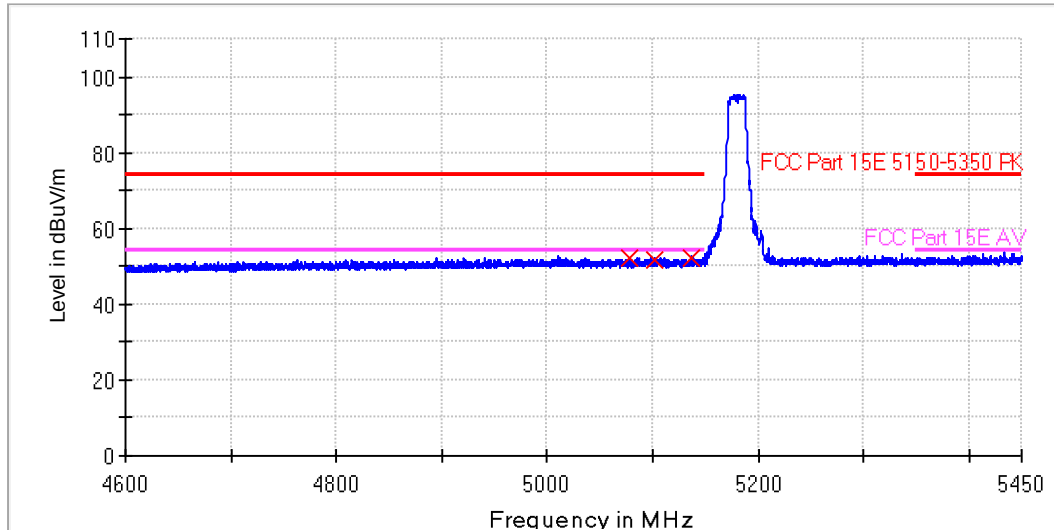
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10356.500000	59.8	---	150.0	V	127.0	12.4	8.4	68.2	---	---
15541.000000	63.0	47.2	150.0	V	89.0	15.3	11.0	74.0	6.8	54.0
17973.000000	52.7	---	150.0	V	127.0	22.1	21.3	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5078.500000	52.3	150.0	V	284.9	9.4	21.7	74.0
5102.000000	51.9	150.0	V	202.5	9.5	22.1	74.0
5136.500000	52.1	150.0	V	276.5	9.6	21.9	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

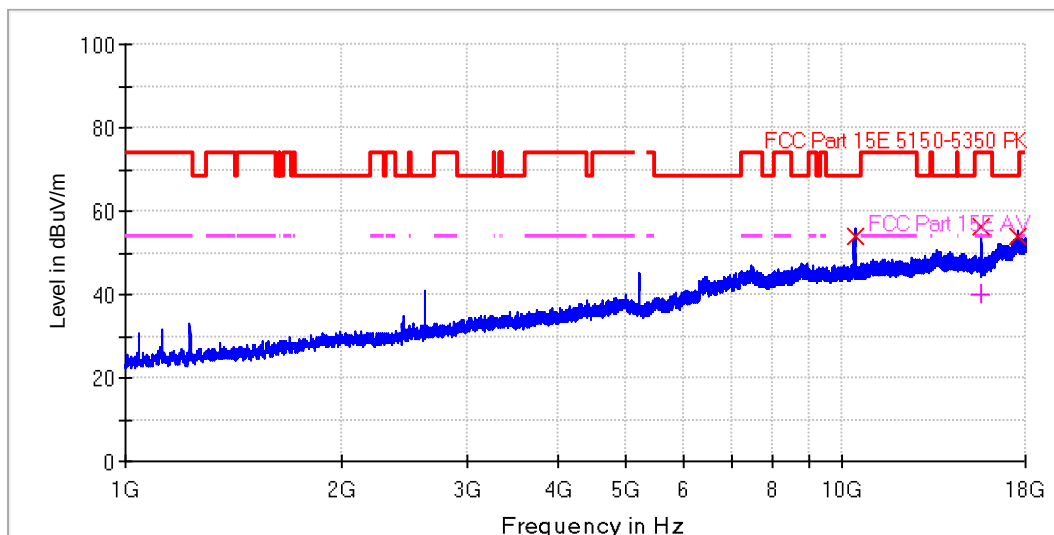
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5200M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10399.500000	53.8	---	150.0	H	93.0	12.6	14.4	68.2	---	---
15593.500000	56.4	40.0	150.0	H	210.0	15.4	17.6	74.0	14.0	54.0
17602.000000	54.2	---	150.0	H	144.0	22.0	14.0	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

1-18G Radiated Emission Test

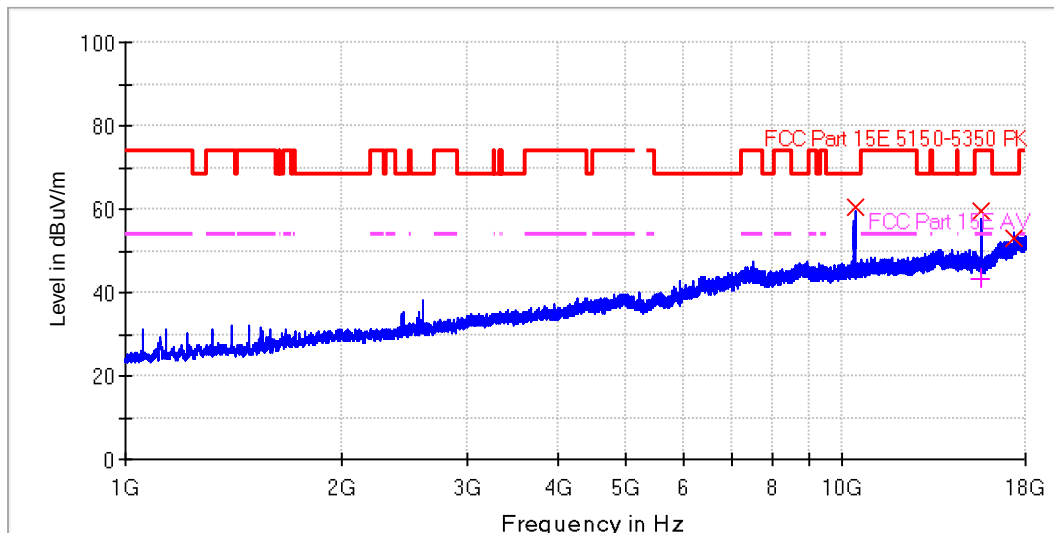
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5200M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10399.000000	60.5	---	150.0	V	141.0	12.6	7.7	68.2	---	---
15602.000000	59.5	43.4	150.0	V	282.0	15.4	14.5	74.0	10.6	54.0
17371.000000	53.0	---	150.0	V	72.0	21.3	15.3	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

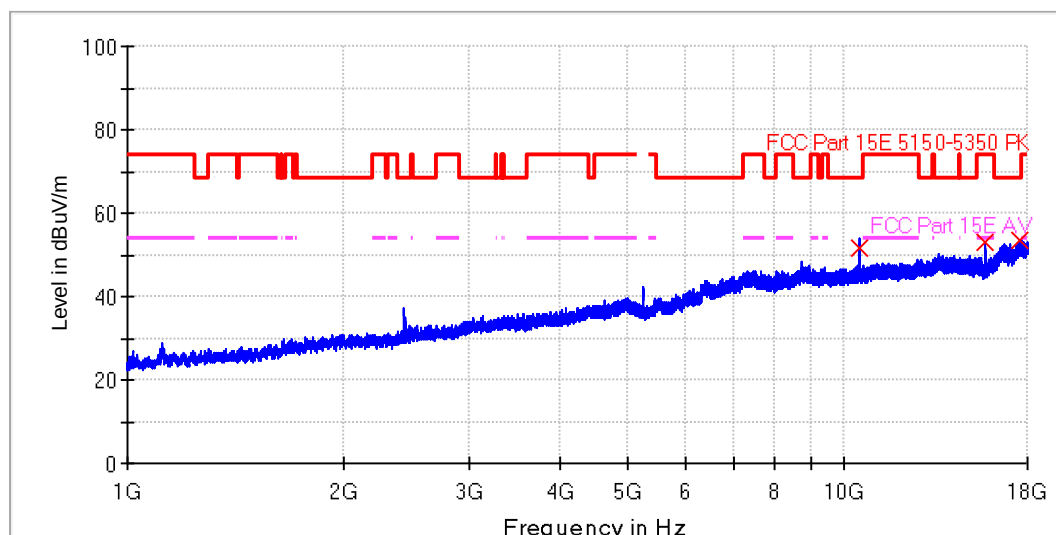
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5240M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10485.500000	51.6	150.0	H	340.0	13.0	16.6	68.2
15722.000000	53.2	150.0	H	258.0	15.5	20.8	74.0
17557.000000	53.7	150.0	H	120.0	21.9	14.5	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

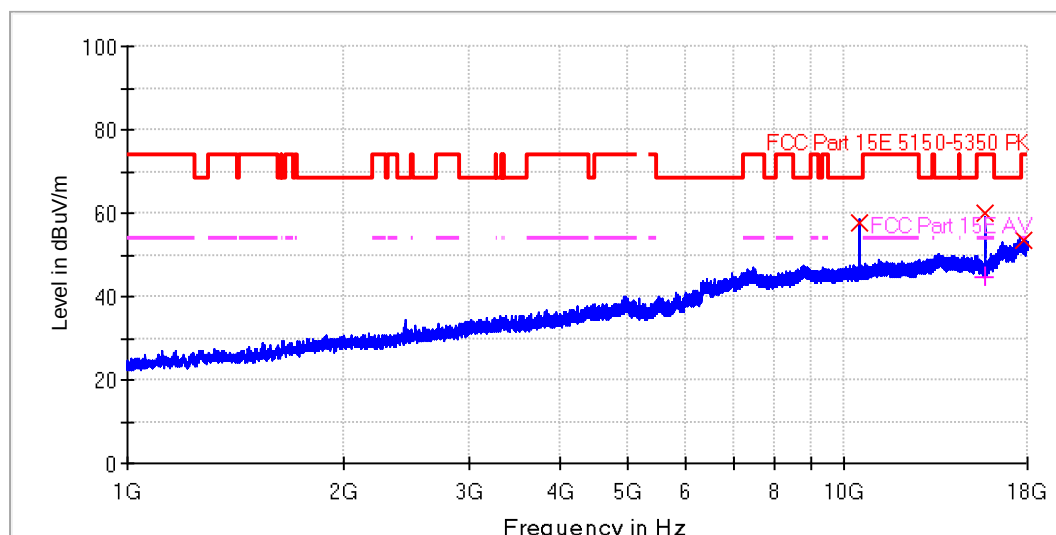
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5240M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10479.000000	57.5	---	150.0	V	193.0	12.9	10.7	68.2	---	---
15721.500000	60.2	44.4	150.0	V	229.0	15.5	13.8	74.0	9.6	54.0
17731.000000	53.4	---	150.0	V	193.0	22.0	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain



1-18G Radiated Emission Test

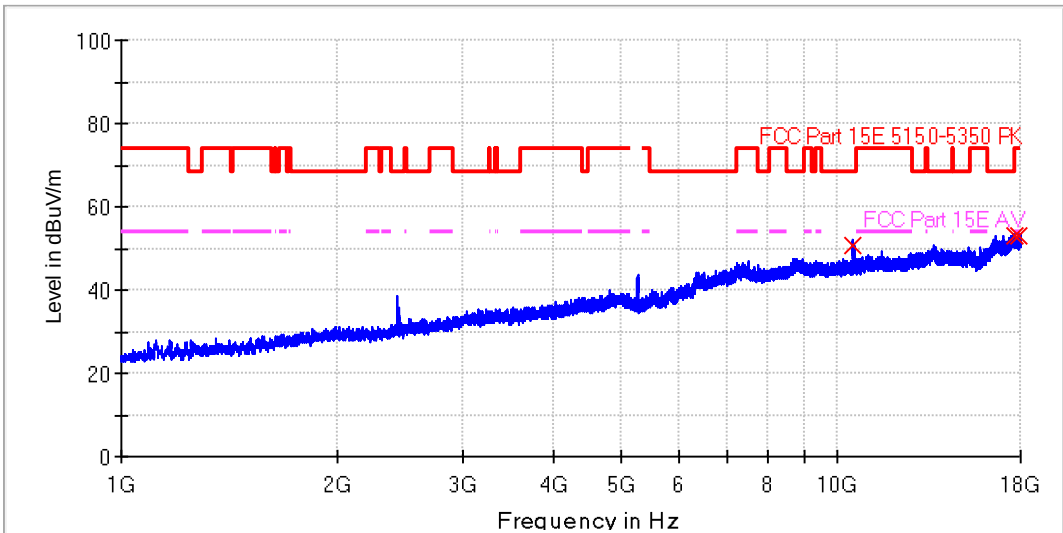
Common Information

EUT:	Dual Band Wireless Multi-mode Gateway
Model:	THP01-ZB-V5
Client:	Zhejiang Lingzhu Technology Co., Ltd
Operating conditions:	Power on, 5G Wi-Fi transmitting, 802.11a: 5260M
Operator name:	Zhihua Xia
Input:	AC 120V 60Hz
Sample No:	WUX 0896895-002
Test standard:	FCC Part 15.407(b)
Comment:	Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup:	FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver:	[FSV 40]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10513.000000	50.5	150.0	H	261.3	13.1	17.7	68.2
17650.000000	53.0	150.0	H	185.3	22.0	15.2	68.2
17917.000000	52.9	150.0	H	183.2	22.1	21.1	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

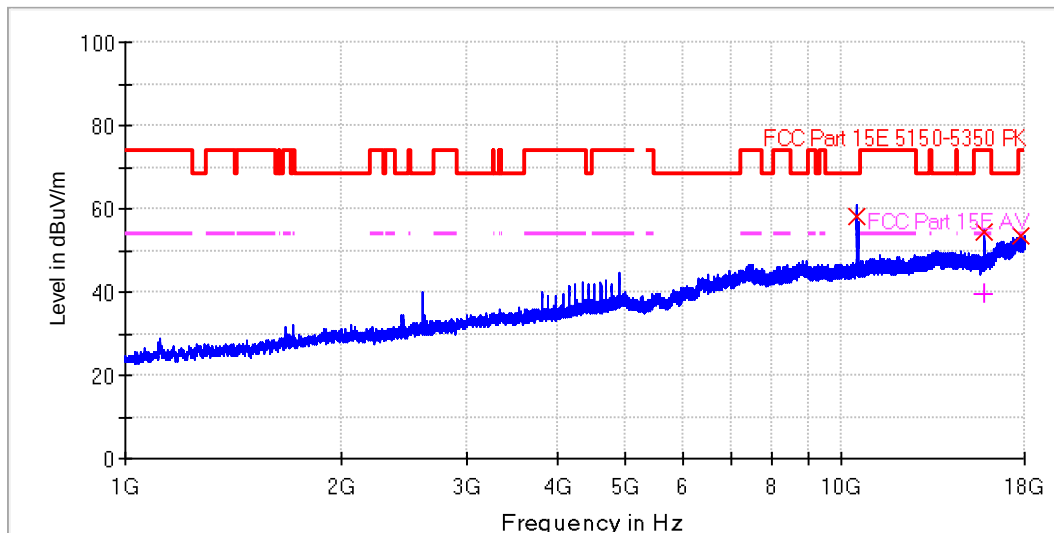
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5260M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10523.000000	58.1	---	150.0	V	250.0	13.1	10.1	68.2	---	---
15781.500000	54.7	39.4	150.0	V	182.0	15.5	19.4	74.0	14.6	54.0
17811.500000	53.5	---	150.0	V	140.0	22.1	20.5	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

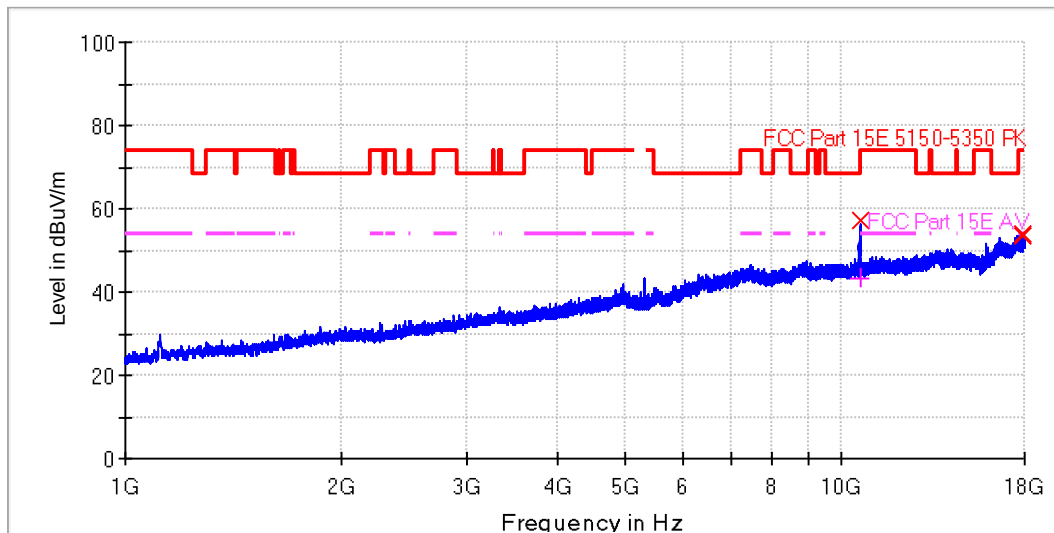
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5300M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10603.000000	57.3	43.1	150.0	H	162.0	13.2	16.7	74.0	10.9	54.0
17837.500000	53.8	---	150.0	H	37.0	22.1	20.2	74.0	---	---
17903.000000	53.6	---	150.0	H	37.0	22.1	20.5	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

1-18G Radiated Emission Test

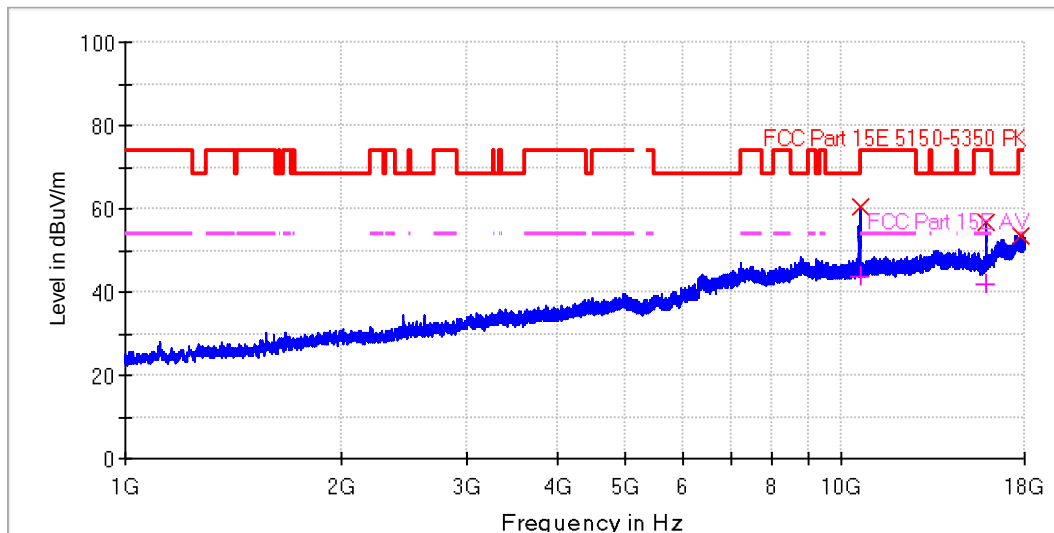
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5300M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10606.000000	60.3	43.9	150.0	V	251.0	13.2	13.7	74.0	10.2	54.0
15902.500000	56.8	41.7	150.0	V	136.0	15.7	17.2	74.0	12.3	54.0
17748.000000	53.4	---	150.0	V	70.0	22.1	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

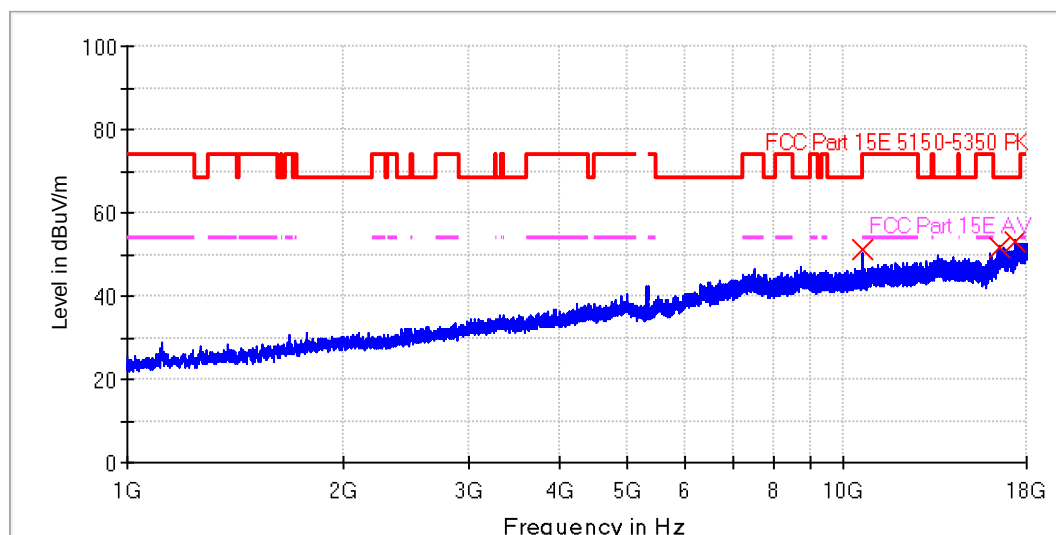
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5320M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

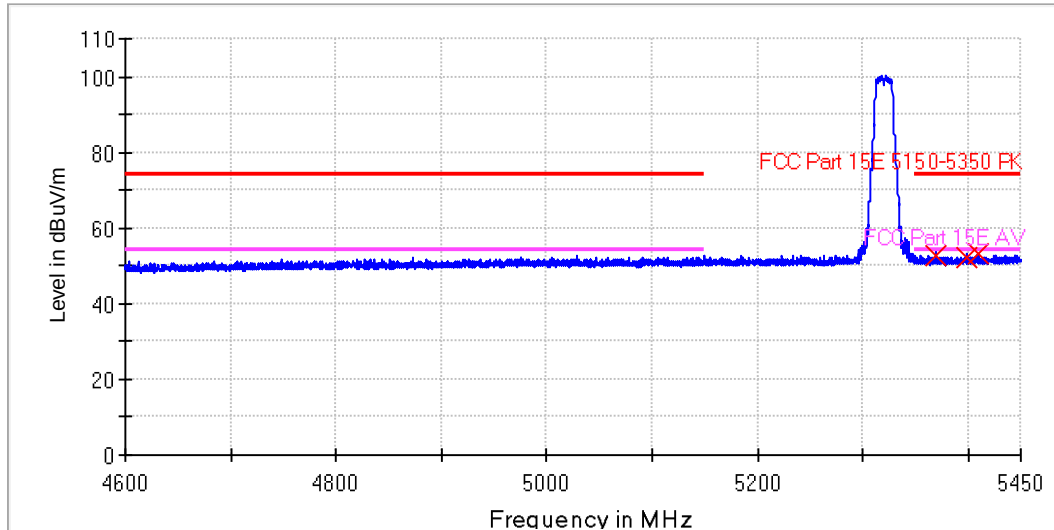
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10639.500000	51.3	150.0	H	356.1	13.2	22.7	74.0
16520.500000	51.8	150.0	H	149.0	18.5	16.4	68.2
17377.000000	52.9	150.0	H	4.1	21.3	15.3	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5368.500000	52.6	150.0	H	286.8	9.9	21.4	74.0
5399.000000	52.0	150.0	H	345.5	10.0	22.0	74.0
5409.500000	53.1	150.0	H	72.7	10.0	20.9	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

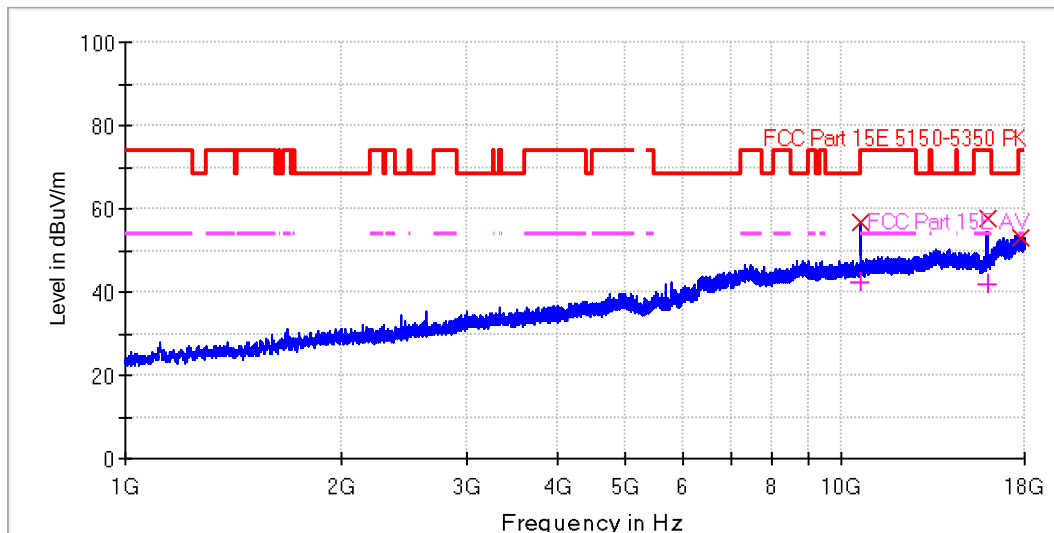
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5320M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

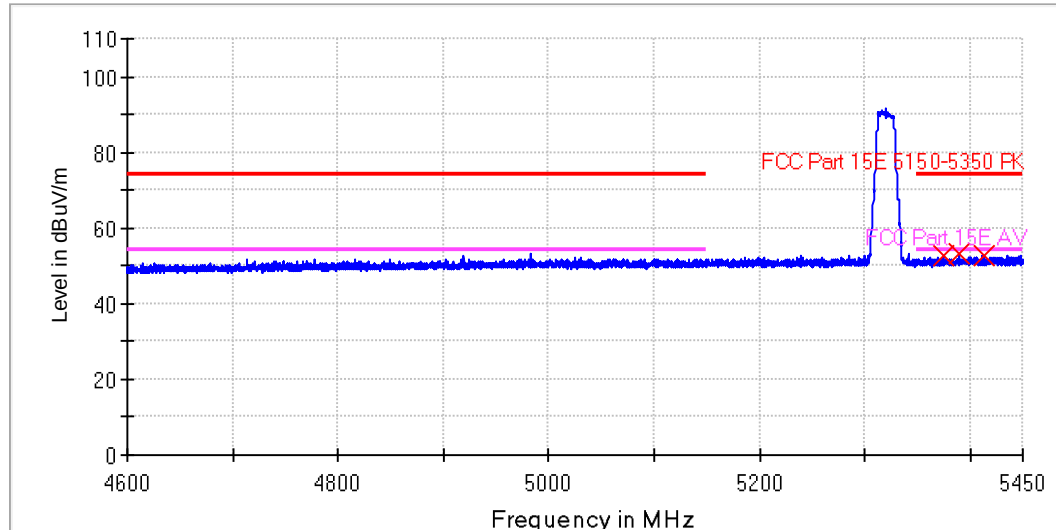
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10638.500000	57.0	42.5	150.0	V	185.0	13.2	17.0	74.0	11.6	54.0
15962.000000	57.6	41.9	150.0	V	48.0	15.8	16.4	74.0	12.1	54.0
17733.000000	53.1	---	150.0	V	8.0	22.1	20.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5374.000000	52.5	150.0	V	74.7	9.9	21.5	74.0
5389.000000	53.2	150.0	V	170.4	9.9	20.8	74.0
5412.500000	52.7	150.0	V	156.9	10.0	21.3	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

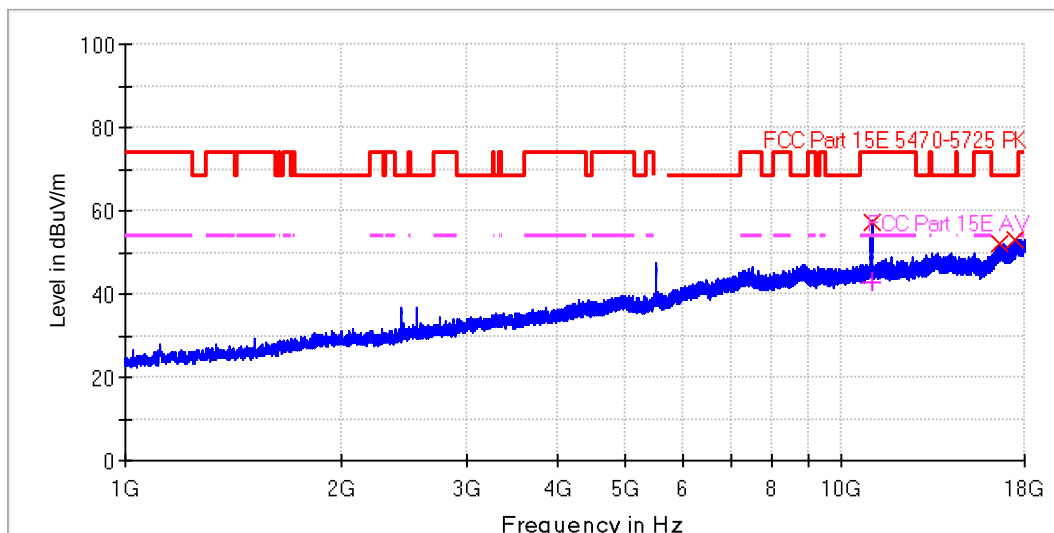
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5500M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

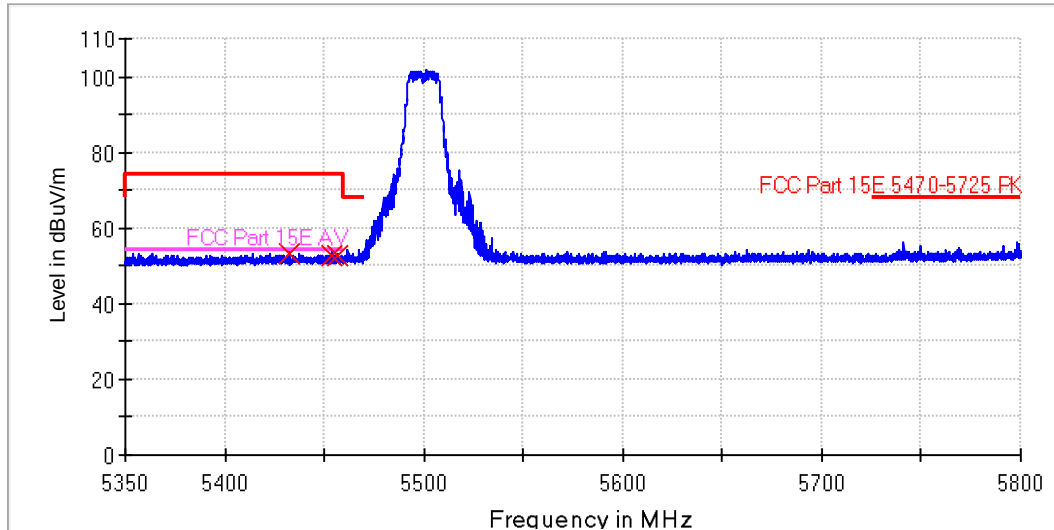
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11004.000000	57.2	42.7	150.0	H	125.0	13.6	16.8	74.0	11.3	54.0
16602.000000	52.2	---	150.0	H	160.0	18.9	16.0	68.2	---	---
17406.000000	52.9	---	150.0	H	130.0	21.4	15.3	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5432.500000	53.0	150.0	H	213.2	10.1	21.0	74.0
5453.500000	52.7	150.0	H	98.4	10.2	21.3	74.0
5457.000000	52.8	150.0	H	198.3	10.2	21.2	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

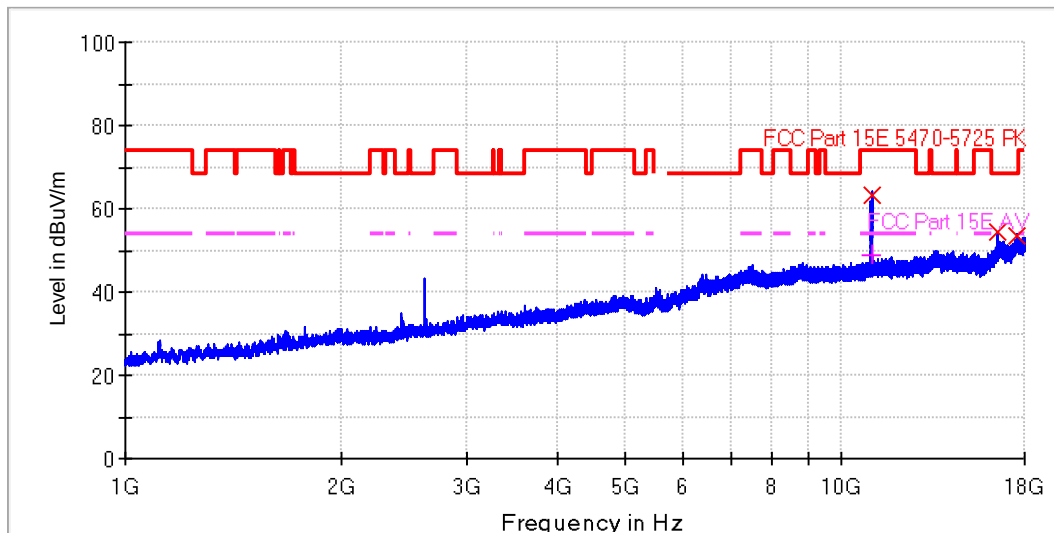
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5500M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

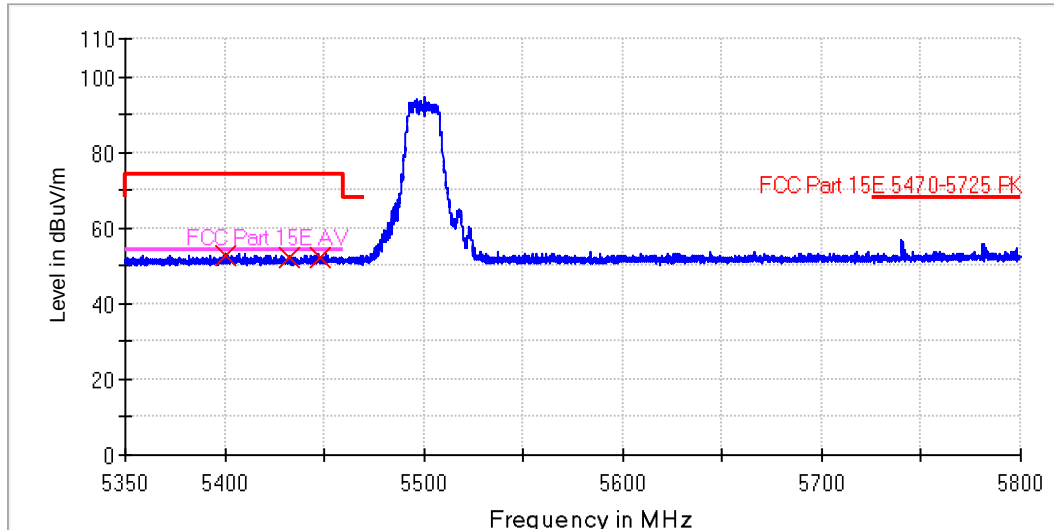
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10994.000000	63.2	48.9	150.0	V	129.0	13.6	10.8	74.0	5.1	54.0
16501.000000	54.5	---	150.0	V	188.0	18.4	13.7	68.2	---	---
17586.000000	53.6	---	150.0	V	88.0	21.9	14.6	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5400.000000	52.8	150.0	V	158.1	10.0	21.2	74.0
5432.000000	52.3	150.0	V	309.4	10.1	21.7	74.0
5447.500000	52.4	150.0	V	64.8	10.1	21.6	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

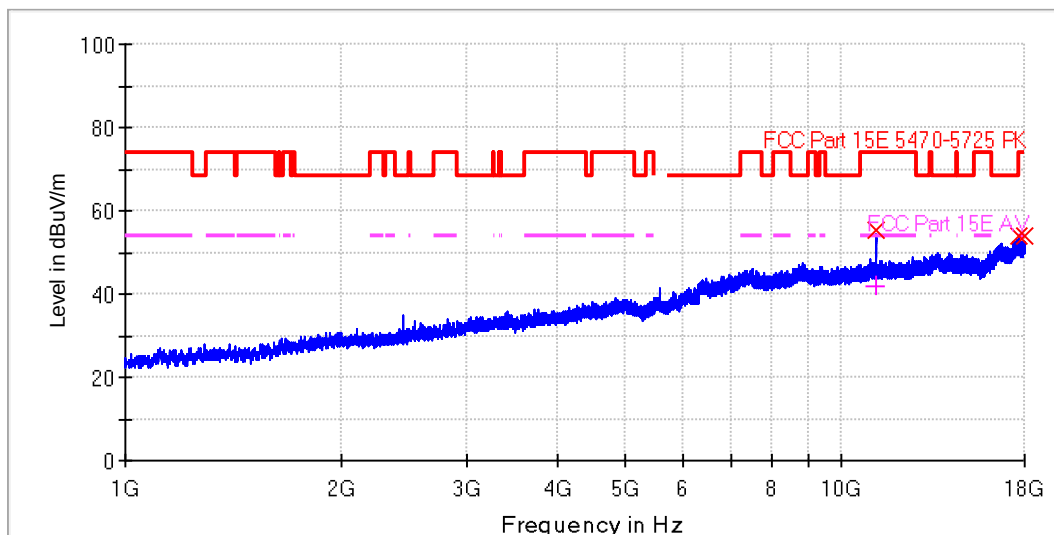
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5580M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11150.000000	55.5	41.7	150.0	H	237.0	13.8	18.5	74.0	12.3	54.0
17664.500000	54.0	---	150.0	H	170.0	22.0	14.2	68.2	---	---
17973.000000	53.8	---	150.0	H	130.0	22.1	20.2	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

1-18G Radiated Emission Test

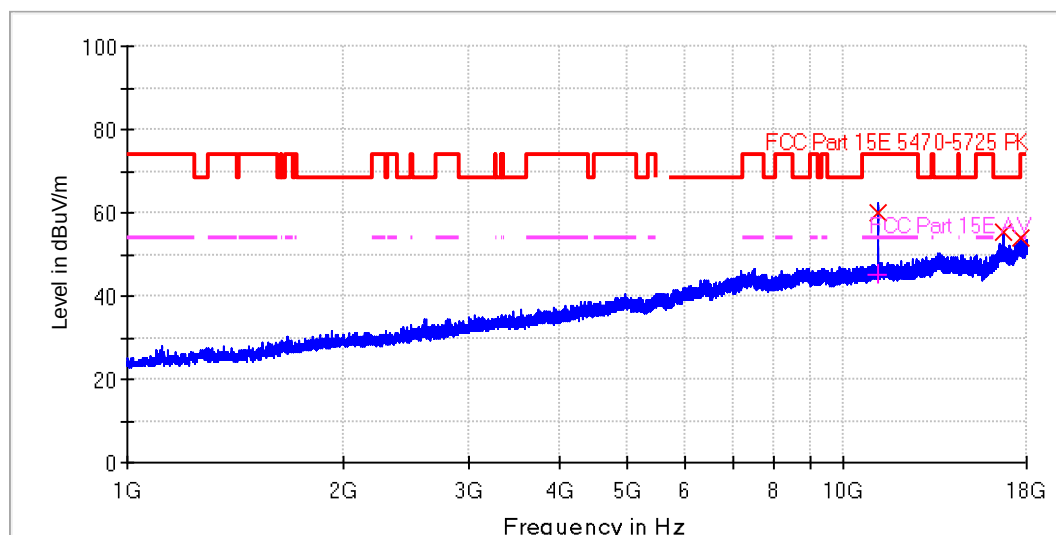
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5580M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11161.500000	60.2	45.3	150.0	V	300.0	13.9	13.8	74.0	8.7	54.0
16742.500000	55.4	---	150.0	V	232.0	19.3	12.8	68.2	---	---
17617.500000	54.0	---	150.0	V	252.0	22.0	14.2	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

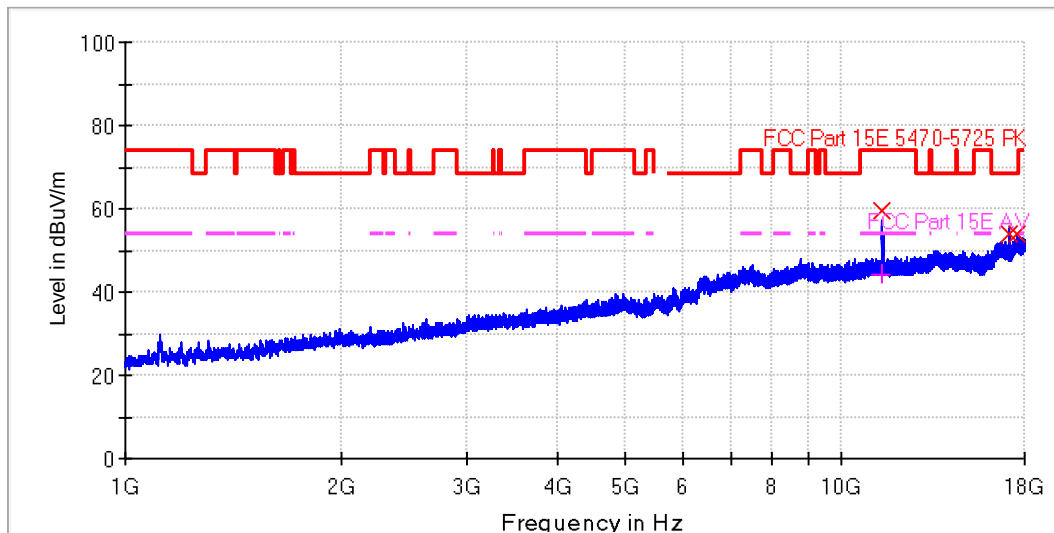
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5700M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

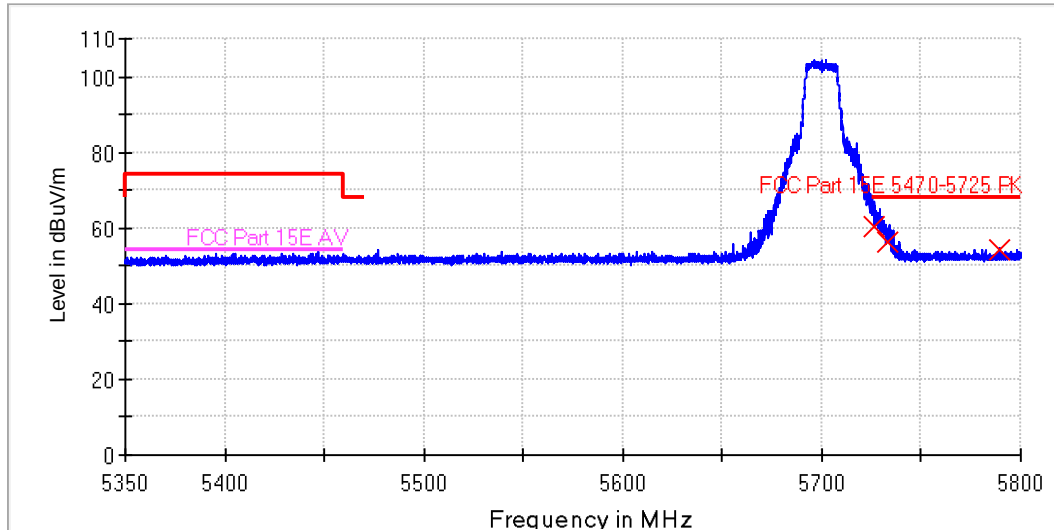
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11393.500000	59.4	44.0	150.0	H	307.0	14.0	14.6	74.0	10.0	54.0
17102.500000	54.2	---	150.0	H	232.0	20.3	14.0	68.2	---	---
17600.000000	54.0	---	150.0	H	232.0	22.0	14.2	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5726.500000	60.2	150.0	H	29.2	10.7	8.0	68.2
5733.500000	56.3	150.0	H	48.2	10.7	11.9	68.2
5789.500000	54.2	150.0	H	147.2	11.0	14.0	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

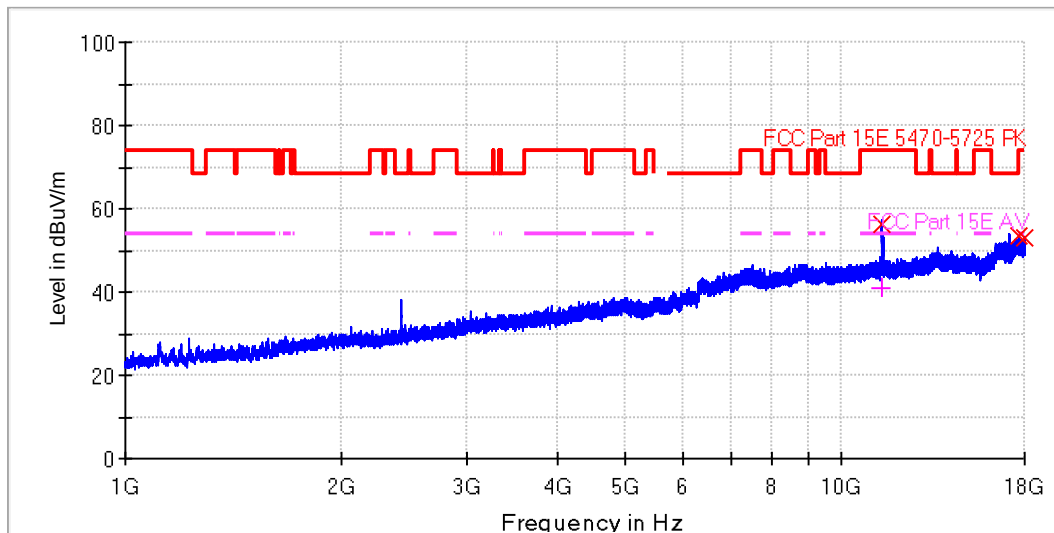
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5700M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

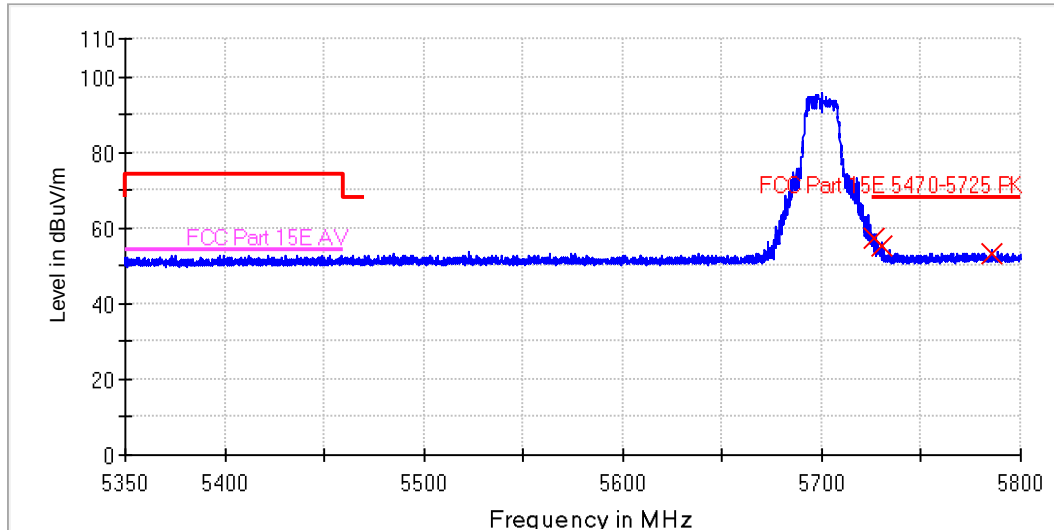
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11403.500000	56.5	41.0	150.0	H	218.0	14.0	17.5	74.0	13.0	54.0
17705.000000	53.4	---	150.0	H	154.0	22.0	20.6	74.0	---	---
17958.000000	53.1	---	150.0	H	152.0	22.1	20.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5726.500000	57.5	150.0	V	9.4	10.7	10.7	68.2
5730.500000	55.1	150.0	V	102.9	10.7	13.1	68.2
5785.000000	53.4	150.0	V	164.6	11.0	14.8	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

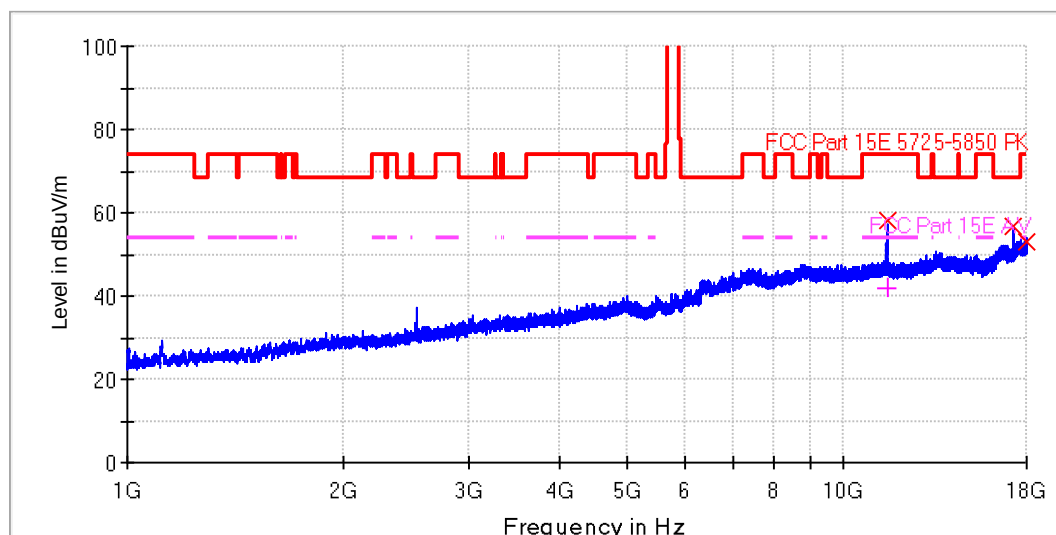
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5745M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

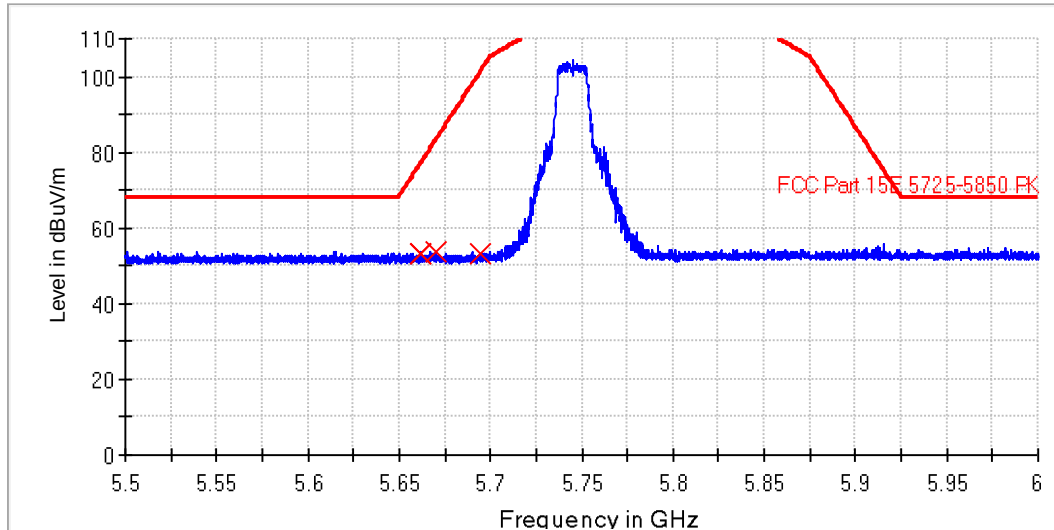
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11489.000000	58.4	41.7	150.0	H	0.0	14.1	15.6	74.0	12.3	54.0
17222.000000	56.7	---	150.0	H	338.0	20.7	11.5	68.2	---	---
17968.000000	53.1	---	150.0	H	297.0	22.1	20.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5661.500000	53.3	150.0	H	233.5	10.5	23.4	76.7
5670.500000	53.6	150.0	H	225.6	10.5	29.8	83.4
5694.500000	53.3	150.0	H	185.5	10.6	47.8	101.1

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

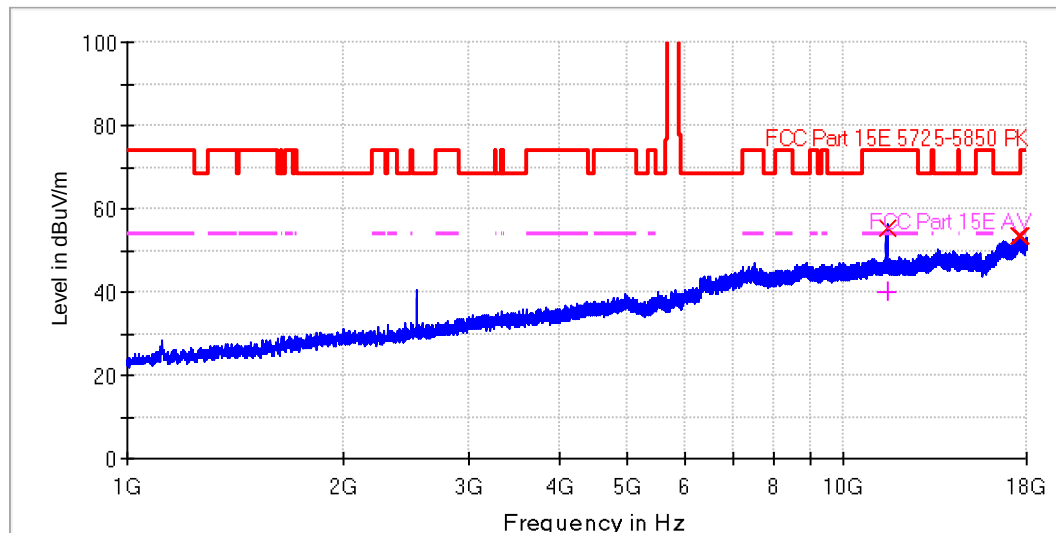
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5745M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

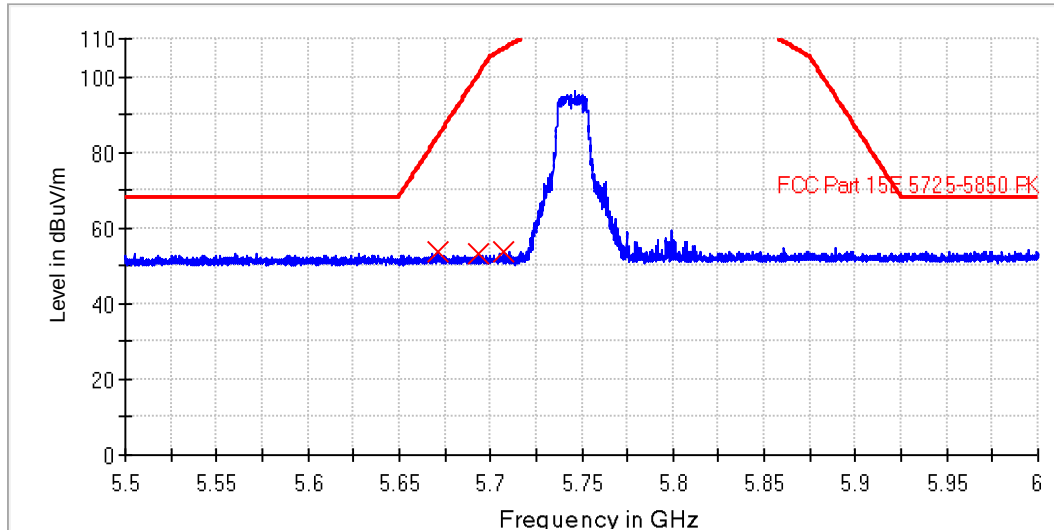
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11489.500000	55.3	39.9	150.0	V	7.2	14.1	18.7	74.0	14.1	54.0
17528.000000	53.6	---	150.0	V	124.0	21.9	14.6	68.2	---	---
17655.000000	53.5	---	150.0	V	84.4	22.0	14.7	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5671.000000	53.5	150.0	V	210.9	10.5	30.3	83.7
5693.500000	53.2	150.0	V	206.8	10.6	47.2	100.4
5707.000000	53.8	150.0	V	53.3	10.6	53.3	107.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

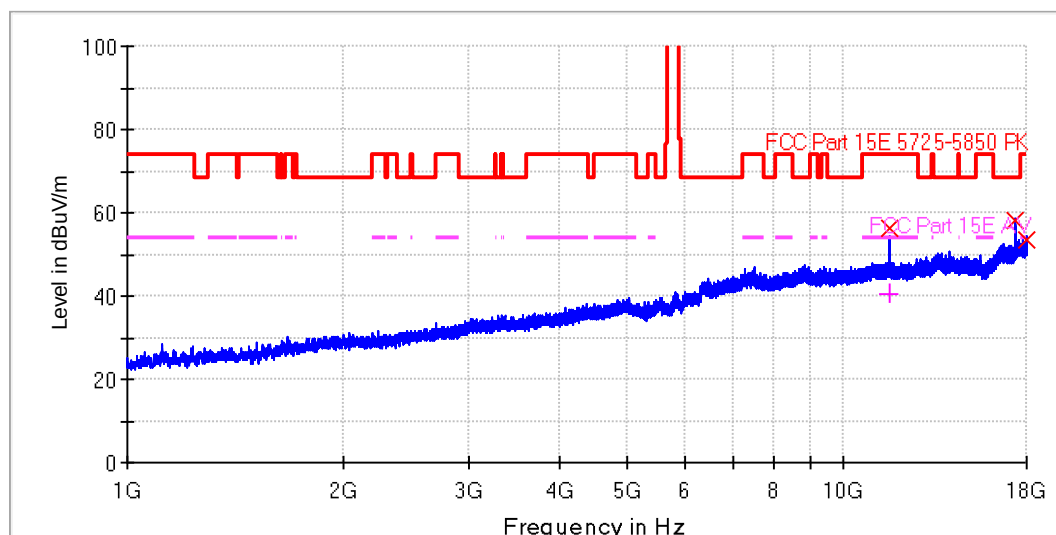
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5785M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11565.000000	56.3	40.5	150.0	H	0.0	14.1	17.7	74.0	13.5	54.0
17363.500000	58.1	---	150.0	H	327.0	21.2	10.1	68.2	---	---
17985.000000	53.4	---	150.0	H	248.0	22.1	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

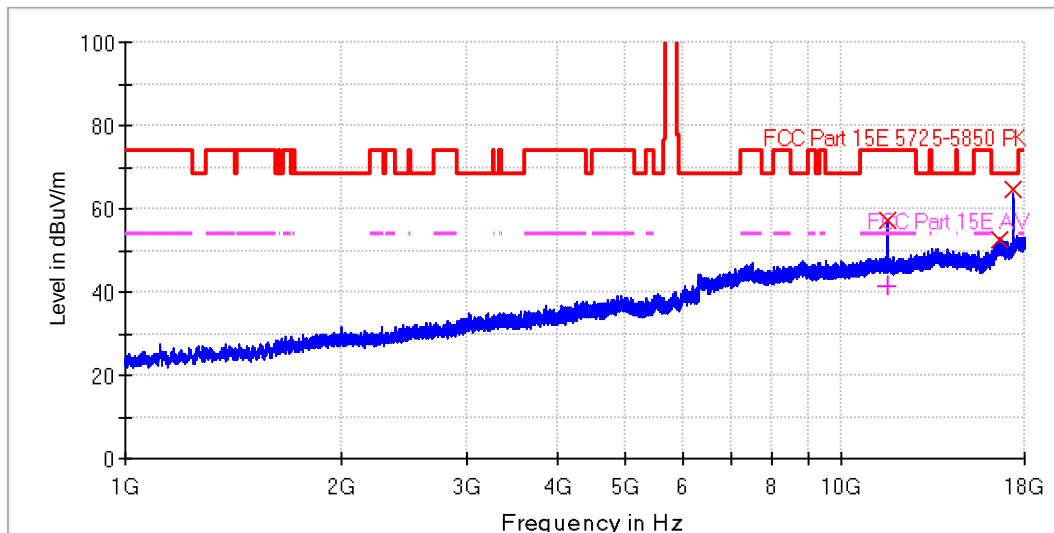
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5785M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11573.500000	57.4	41.4	150.0	V	281.0	14.1	16.6	74.0	12.6	54.0
16608.000000	52.5	---	150.0	V	174.0	18.9	15.7	68.2	---	---
17349.500000	64.6	---	150.0	V	271.0	21.2	3.6	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

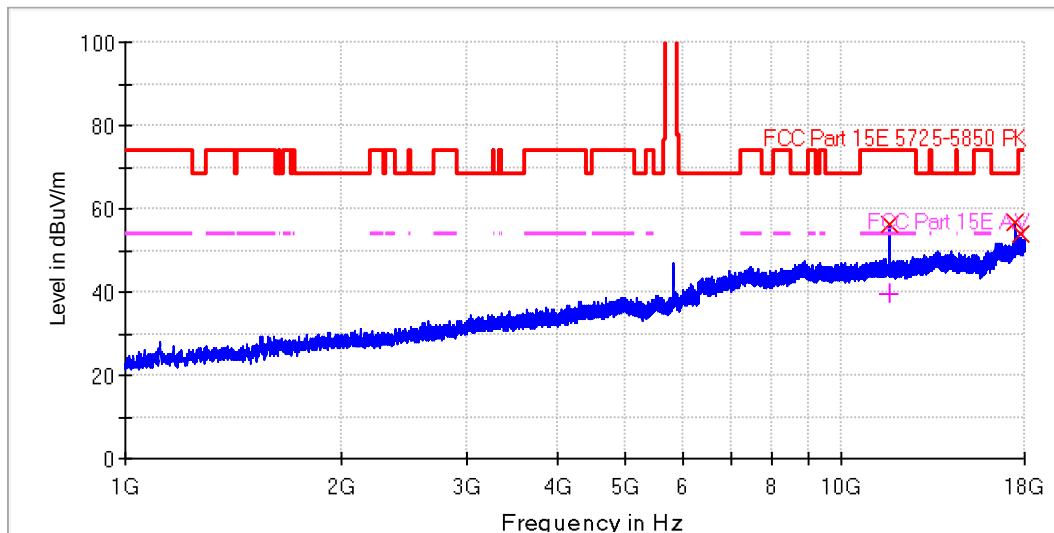
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5825M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

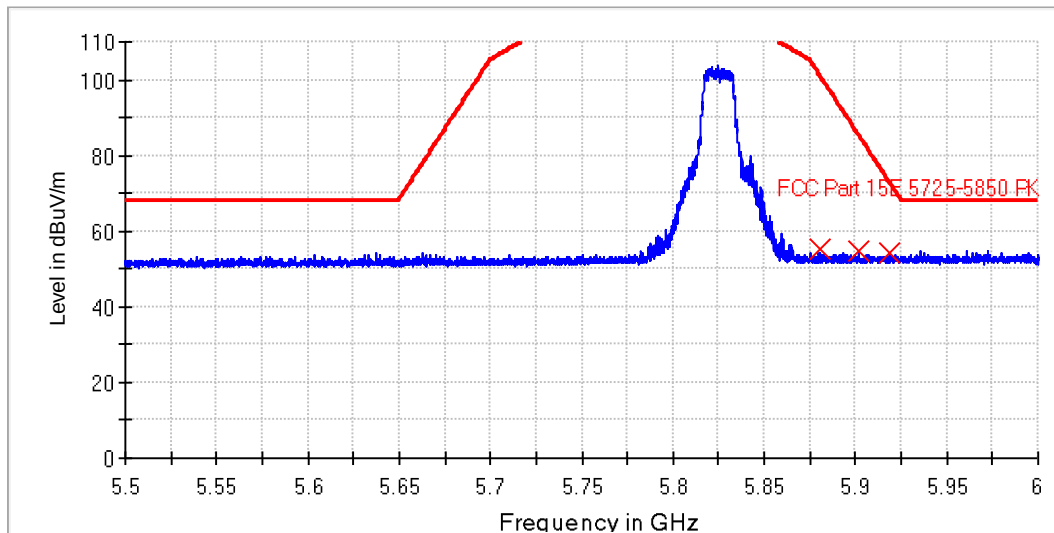
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11654.500000	56.2	39.6	150.0	H	324.0	14.2	17.8	74.0	14.4	54.0
17461.500000	56.8	---	150.0	H	285.0	21.7	11.4	68.2	---	---
17792.500000	53.9	---	150.0	H	285.0	22.1	20.1	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5880.500000	55.1	150.0	H	316.9	11.1	46.1	101.1
5901.500000	54.5	150.0	H	145.3	11.1	31.1	85.6
5918.500000	54.1	150.0	H	265.8	11.1	18.9	73.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

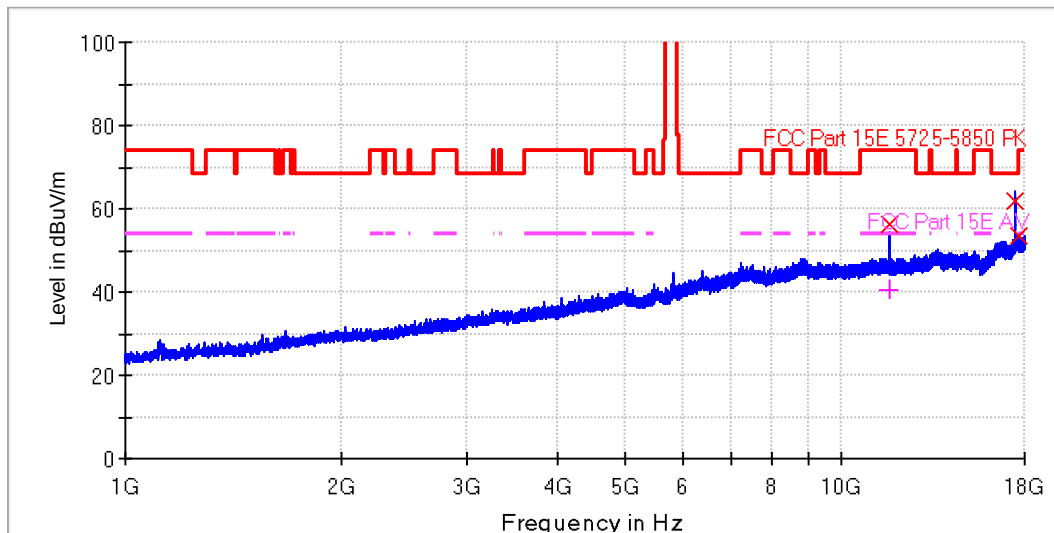
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11a: 5825M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

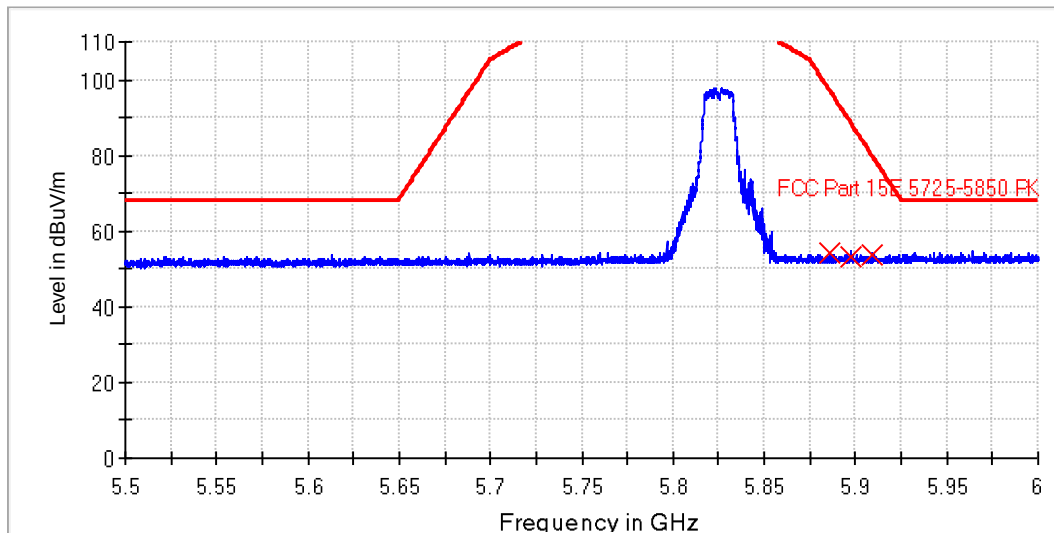
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11646.000000	56.5	40.6	150.0	V	19.0	14.1	17.5	74.0	13.4	54.0
17481.000000	61.7	---	150.0	V	31.0	21.7	6.6	68.2	---	---
17717.000000	53.4	---	150.0	V	233.0	22.0	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5886.000000	54.2	150.0	V	253.1	11.1	42.9	97.1
5897.000000	53.2	150.0	V	280.7	11.1	35.8	88.9
5909.000000	53.6	150.0	V	60.2	11.1	26.5	80.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

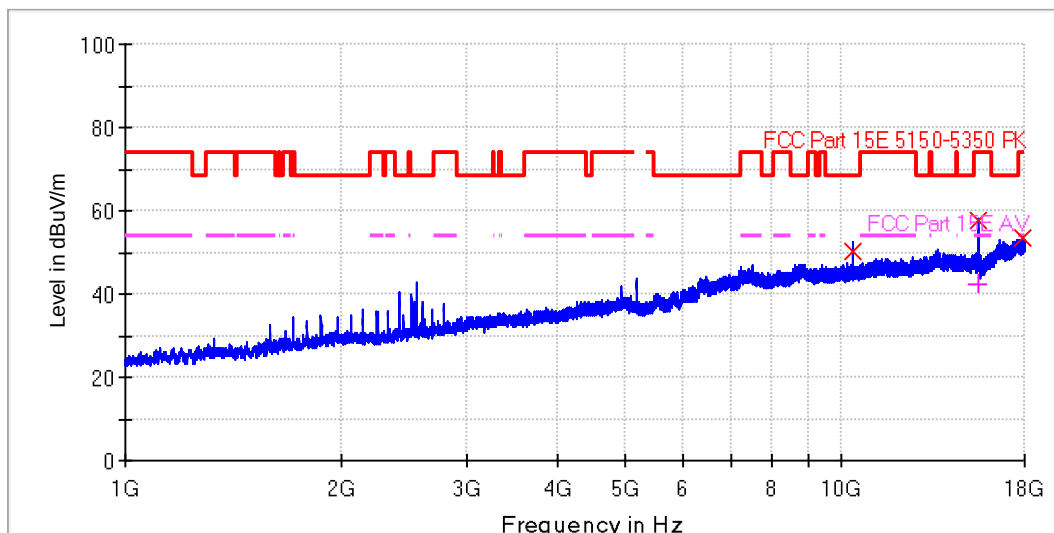
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5180M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

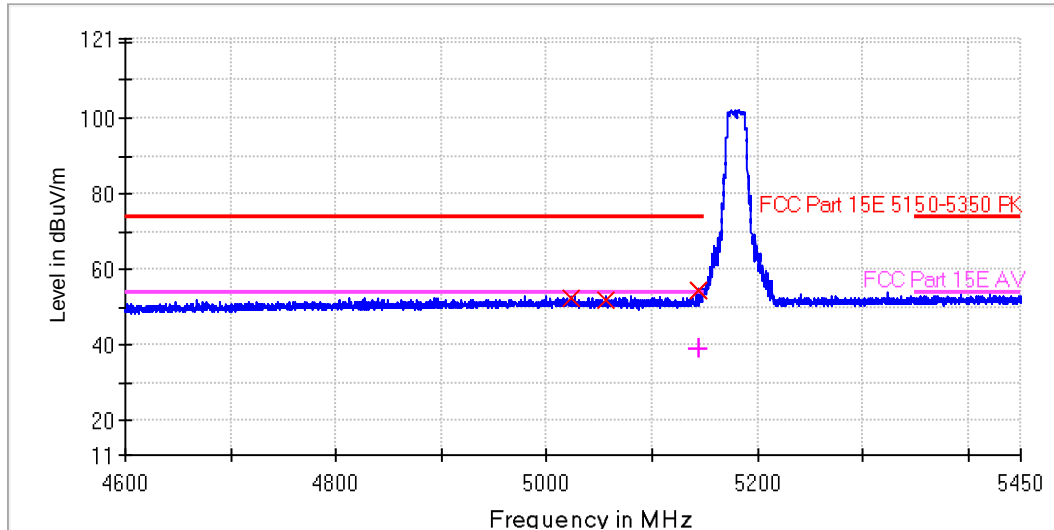
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10358.500000	50.4	---	150.0	H	155.7	12.5	17.8	68.2	---	---
15534.500000	57.9	42.1	150.0	H	188.9	15.3	16.1	74.0	11.9	54.0
17904.000000	53.3	---	150.0	H	164.3	22.1	20.7	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5024.000000	52.7	---	150.0	H	154.9	9.4	21.3	74.0	---	---
5056.000000	52.0	---	150.0	H	318.9	9.4	22.0	74.0	---	---
5144.500000	54.4	39.3	150.0	H	99.1	9.6	19.6	74.0	14.7	54.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

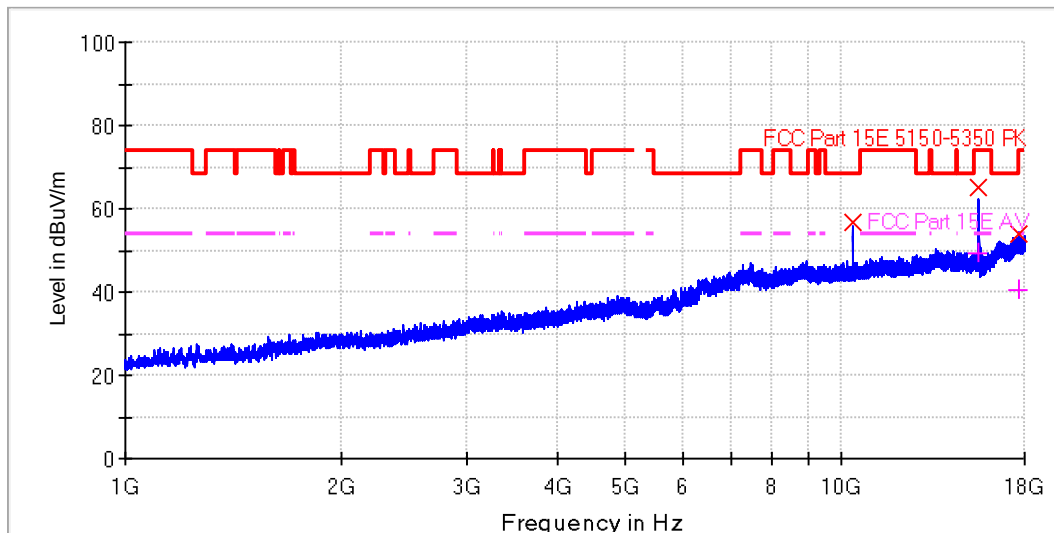
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5180M
Operator name: Zihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

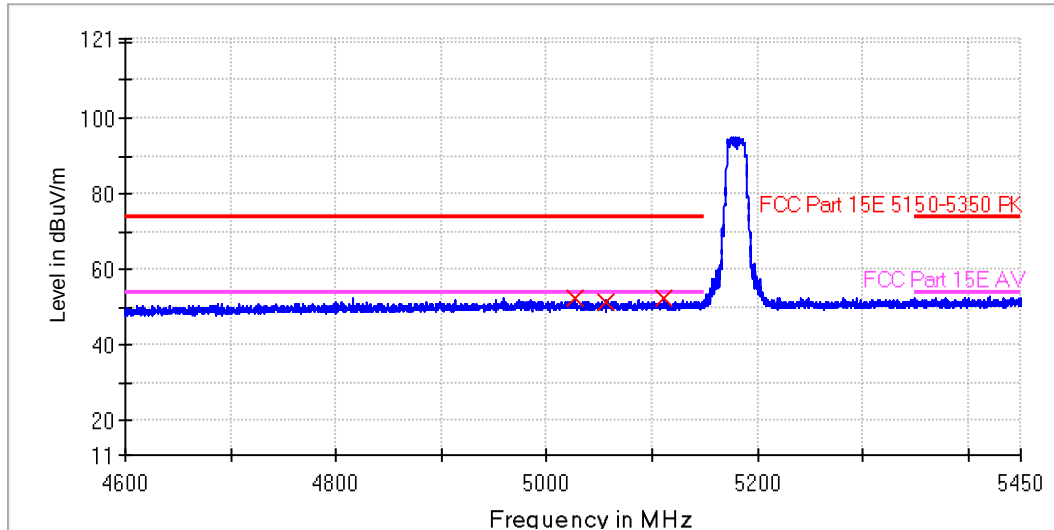
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10353.000000	56.6	---	150.0	V	116.0	12.4	11.6	68.2	---	---
15541.500000	65.2	49.4	150.0	V	283.0	15.3	8.8	74.0	4.6	54.0
17717.000000	54.1	40.3	150.0	V	188.0	22.0	19.9	74.0	13.7	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5026.500000	52.6	150.0	V	184.4	9.4	21.4	74.0
5056.500000	51.6	150.0	V	106.6	9.4	22.4	74.0
5111.500000	52.3	150.0	V	198.9	9.5	21.7	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

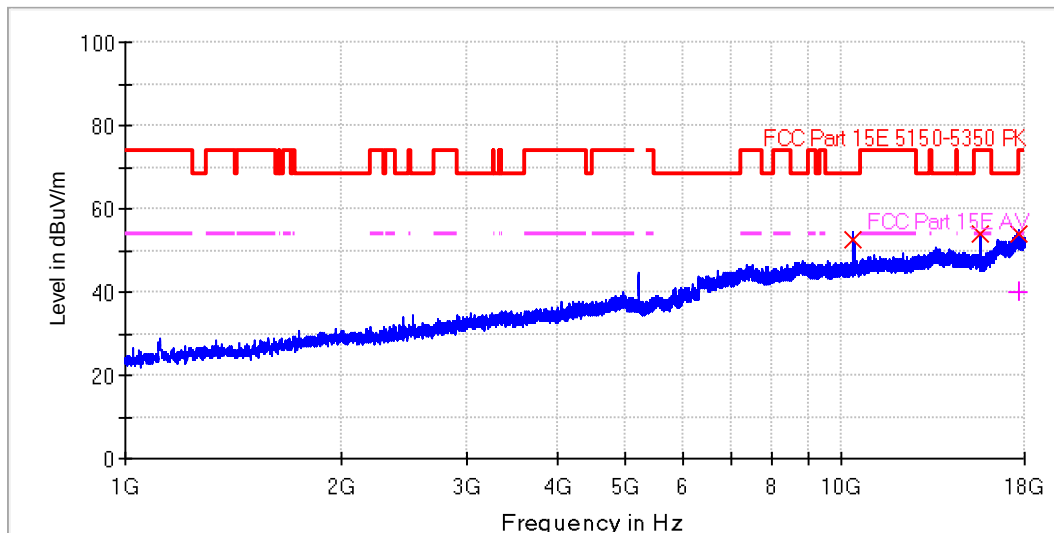
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5200M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10392.000000	52.5	---	150.0	H	251.0	12.6	15.7	68.2	---	---
15589.500000	53.9	---	150.0	H	187.0	15.4	20.1	74.0	---	---
17722.000000	53.9	40.1	150.0	H	0.0	22.0	20.1	74.0	13.9	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain



1-18G Radiated Emission Test

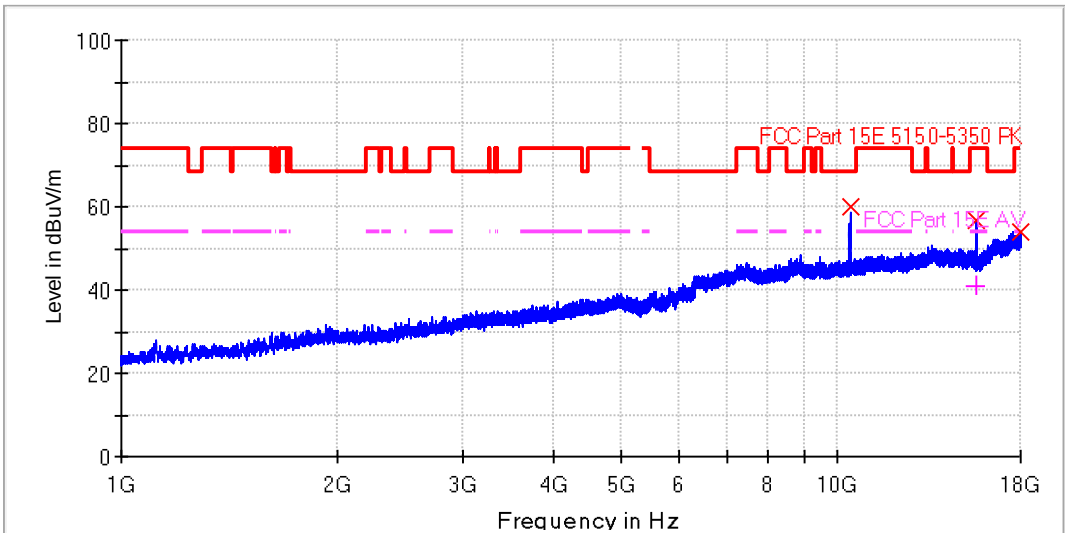
Common Information

EUT:	Dual Band Wireless Multi-mode Gateway
Model:	THP01-ZB-V5
Client:	Zhejiang Lingzhu Technology Co., Ltd
Operating conditions:	Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5200M
Operator name:	Zhihua Xia
Input:	AC 120V 60Hz
Sample No:	WUX 0896895-002
Test standard:	FCC Part 15.407(b)
Comment:	Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup:	FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver:	[FSV 40]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10397.000000	59.8	---	150.0	V	156.0	12.6	8.4	68.2	---	---
15600.500000	56.7	41.0	150.0	V	91.0	15.4	17.3	74.0	13.1	54.0
17999.000000	54.1	---	150.0	V	122.0	22.1	19.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

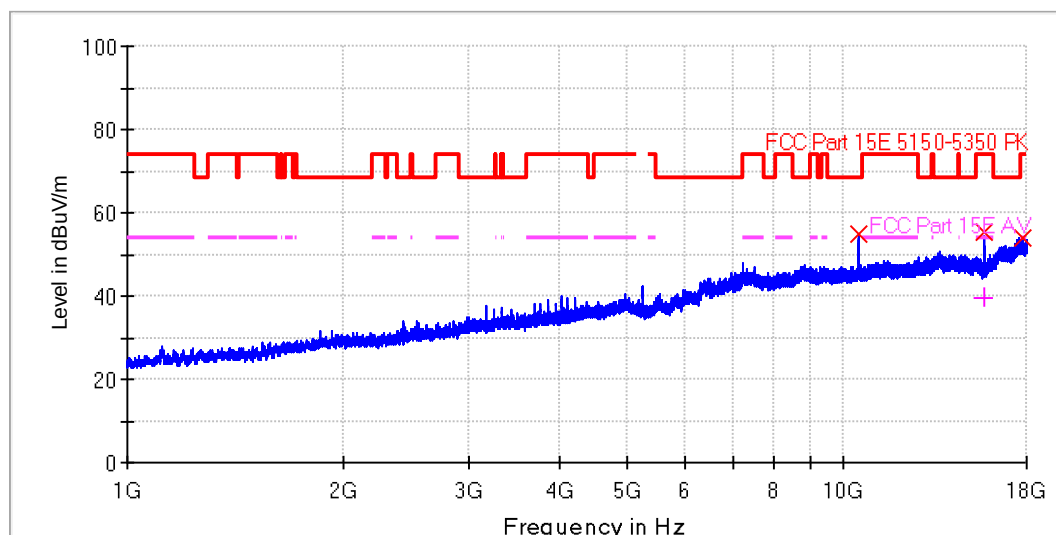
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5240M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10479.000000	54.9	---	150.0	H	144.0	12.9	13.3	68.2	---	---
15714.000000	55.5	39.4	150.0	H	231.0	15.5	18.5	74.0	14.6	54.0
17813.000000	53.9	---	150.0	H	88.0	22.1	20.1	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

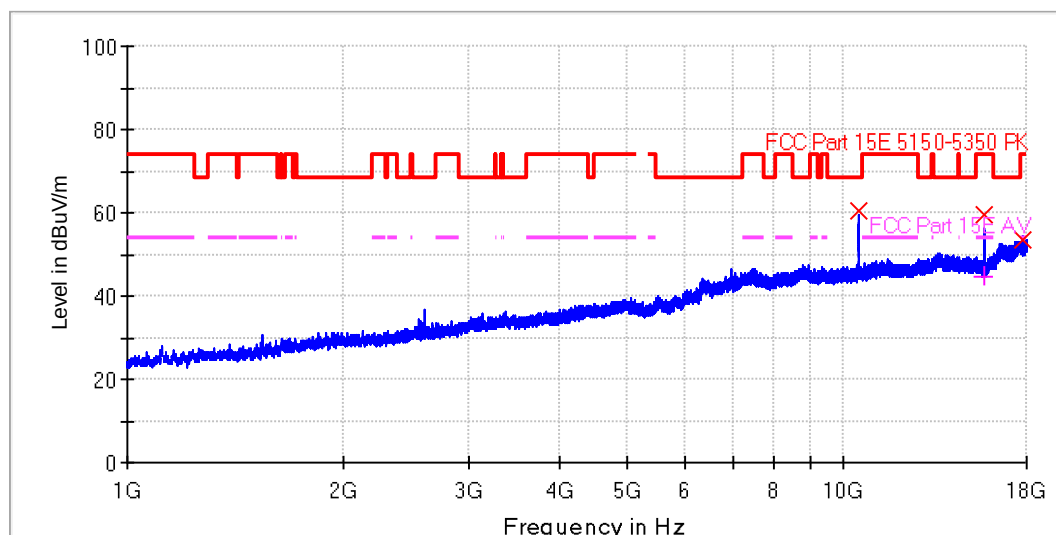
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5240M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10483.500000	60.3	---	150.0	V	139.0	12.9	7.9	68.2	---	---
15719.000000	59.6	44.5	150.0	V	254.0	15.5	14.4	74.0	9.5	54.0
17776.000000	53.4	---	150.0	V	188.0	22.1	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

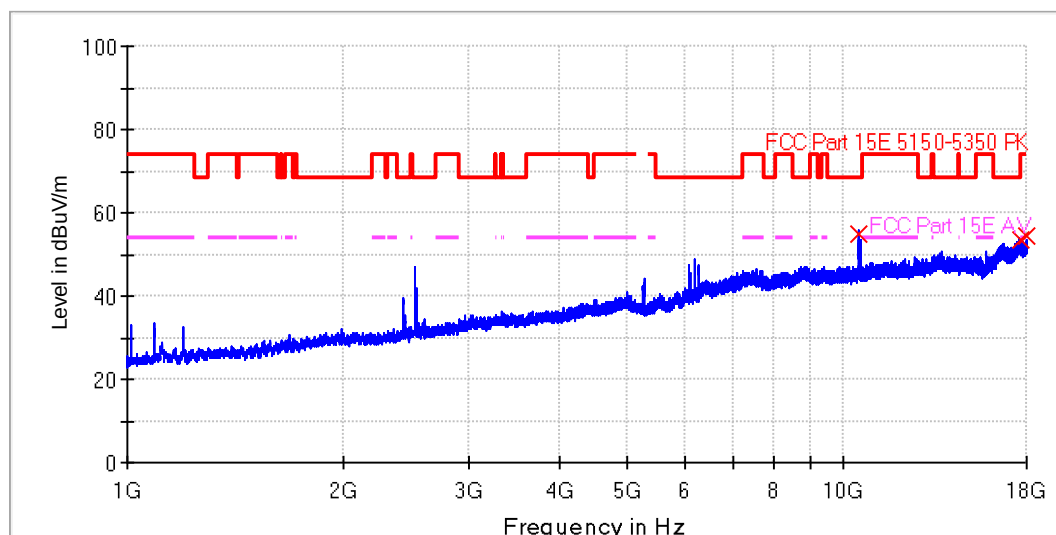
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5260M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10519.500000	55.0	150.0	H	356.0	13.1	13.2	68.2
17700.000000	53.6	150.0	H	204.0	22.0	20.4	74.0
17984.000000	54.4	150.0	H	230.0	22.1	19.6	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

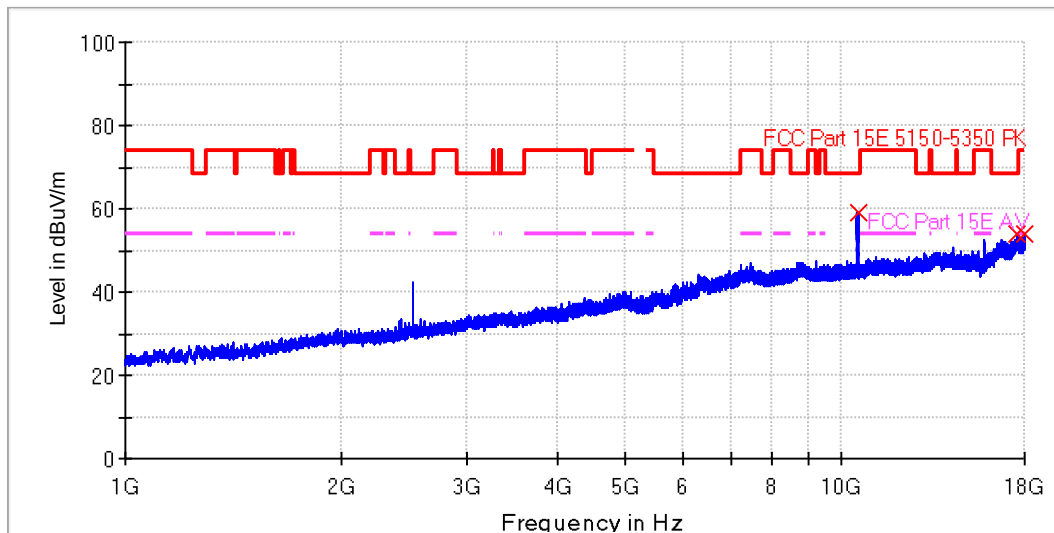
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5260M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10526.500000	59.1	150.0	V	64.0	13.1	9.1	68.2
17558.500000	53.8	150.0	V	121.0	21.9	14.4	68.2
17989.500000	53.9	150.0	V	267.0	22.1	20.1	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

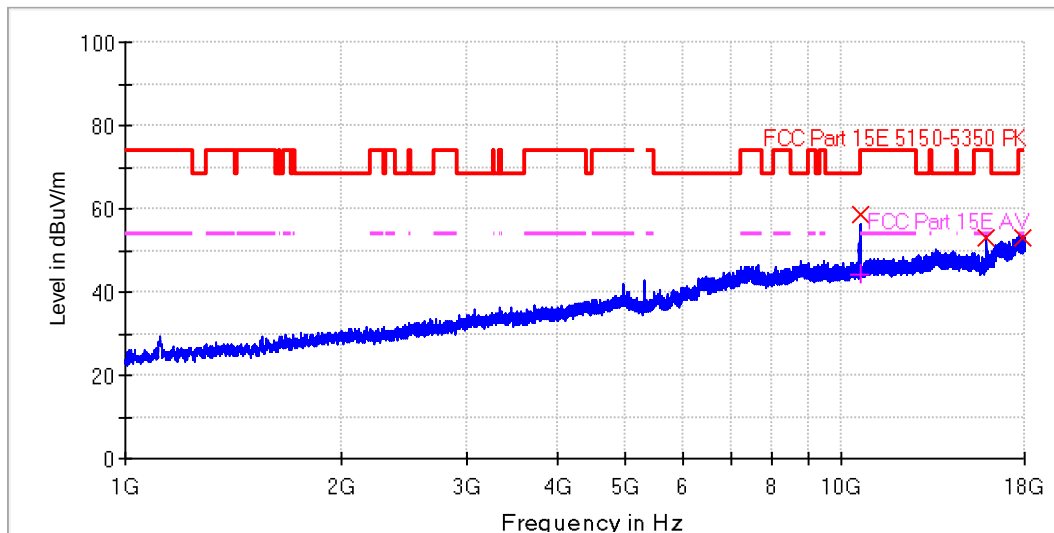
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5300M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10604.000000	58.6	44.3	150.0	H	138.0	13.2	15.4	74.0	9.7	54.0
15898.000000	53.2	---	150.0	H	87.0	15.7	20.8	74.0	---	---
17917.000000	53.1	---	150.0	H	7.0	22.1	20.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

1-18G Radiated Emission Test

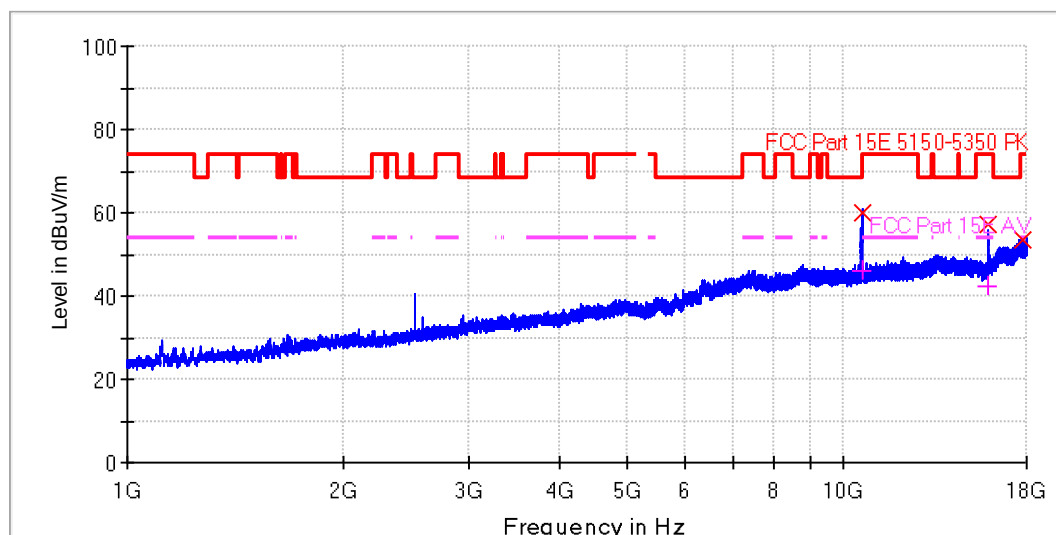
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5300M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10602.000000	60.1	46.0	150.0	V	56.0	13.2	13.9	74.0	8.0	54.0
15900.000000	57.0	42.2	150.0	V	252.0	15.7	17.0	74.0	11.8	54.0
17788.500000	53.5	---	150.0	V	310.0	22.1	20.5	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

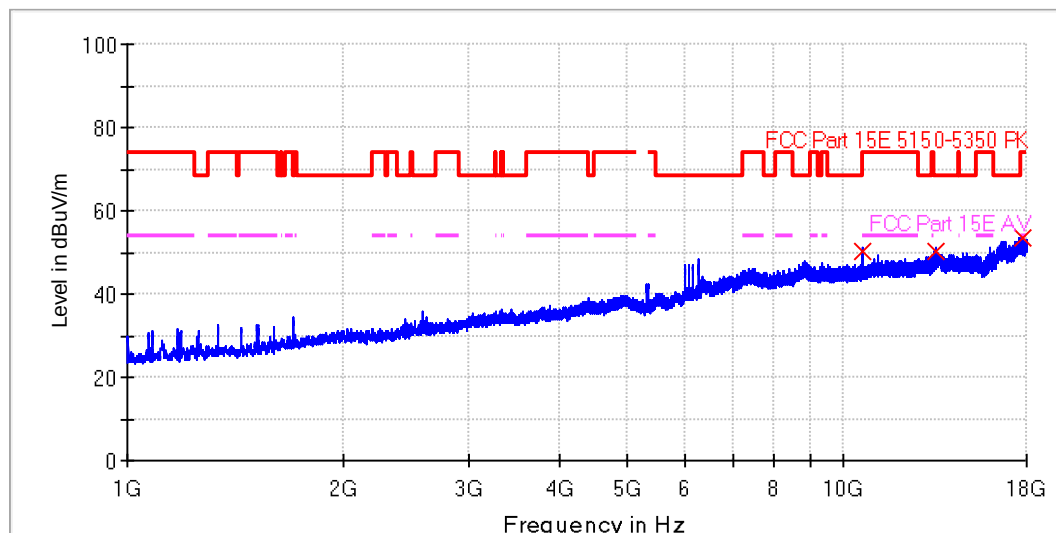
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
 Model: THP01-ZB-V5
 Client: Zhejiang Lingzhu Technology Co., Ltd
 Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5320M
 Operator name: Zhihua Xia
 Input: AC 120V 60Hz
 Sample No: WUX 0896895-002
 Test standard: FCC Part 15.407(b)
 Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
 Receiver: [FSV 40]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

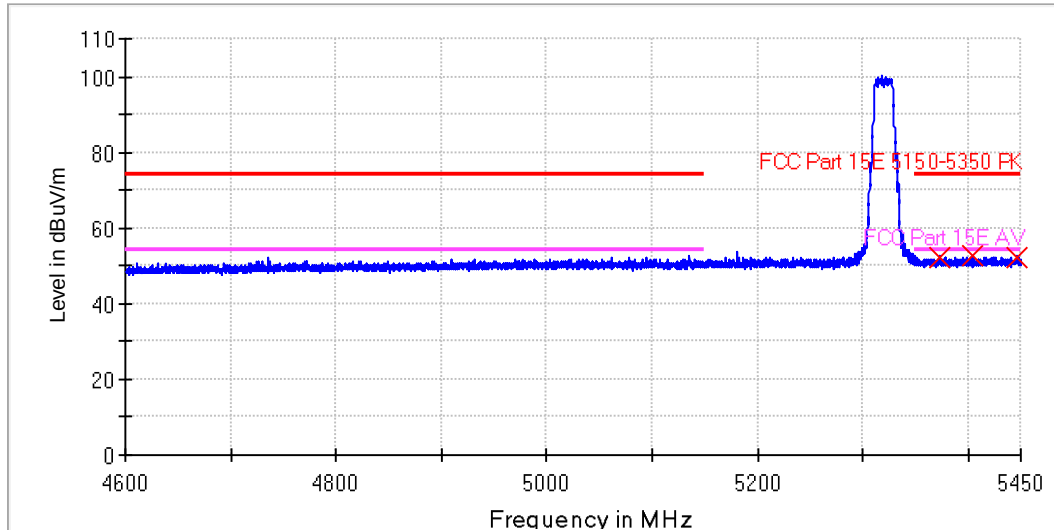
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10641.000000	50.3	150.0	H	98.7	13.2	23.7	74.0
13443.500000	50.3	150.0	H	186.9	17.2	17.9	68.2
17788.000000	53.3	150.0	H	142.3	22.1	20.7	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5373.000000	52.0	150.0	H	107.2	9.9	22.0	74.0
5405.000000	52.7	150.0	H	33.8	10.0	21.3	74.0
5446.500000	52.4	150.0	H	134.2	10.1	21.6	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

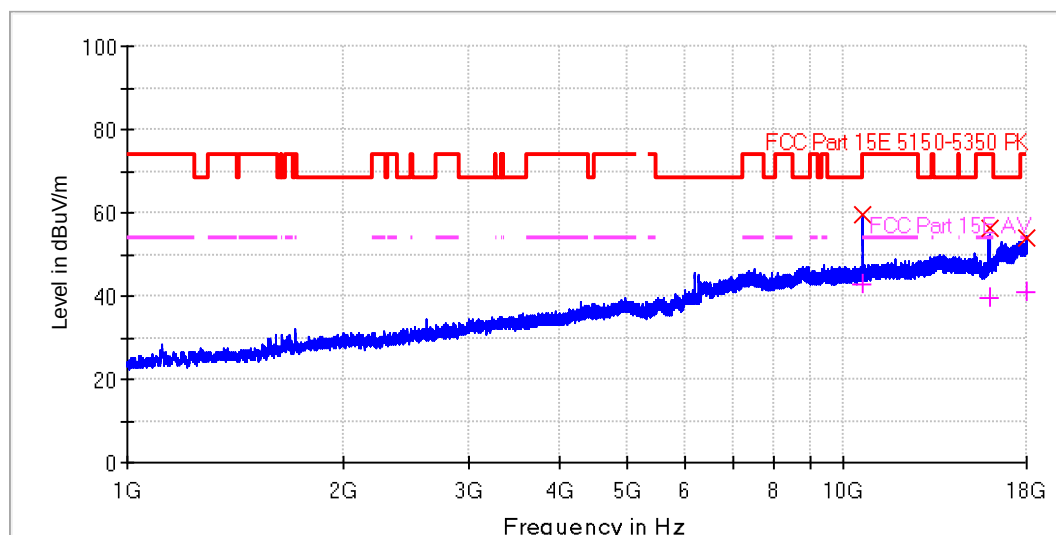
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5320M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

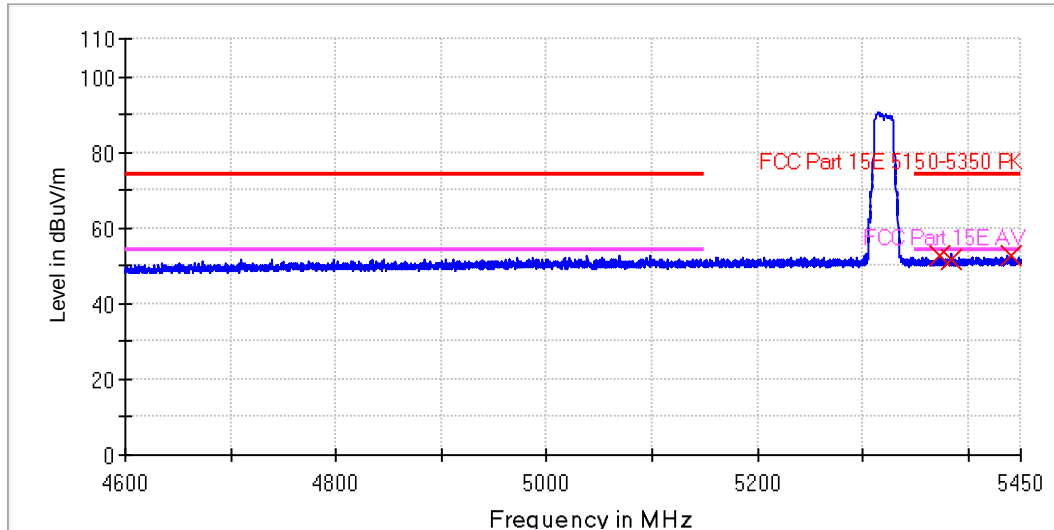
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10639.000000	59.4	42.6	150.0	V	267.0	13.2	14.6	74.0	11.4	54.0
15949.500000	56.1	39.5	150.0	V	141.0	15.8	17.9	74.0	14.5	54.0
17998.000000	53.9	40.9	150.0	V	68.0	22.1	20.1	74.0	13.1	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5373.500000	52.5	150.0	V	343.0	9.9	21.5	74.0
5384.000000	51.8	150.0	V	344.6	9.9	22.2	74.0
5441.500000	52.5	150.0	V	297.6	10.1	21.5	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

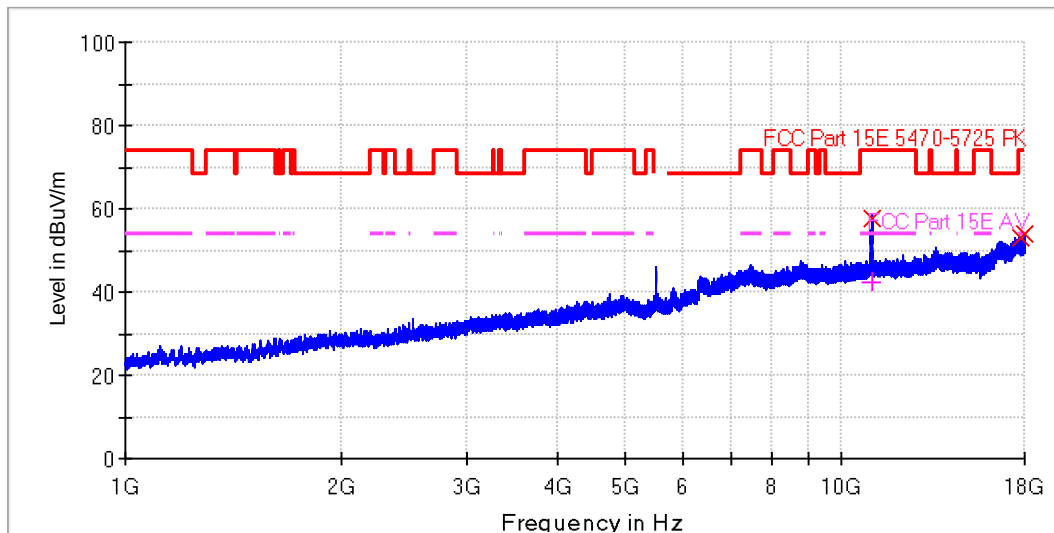
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5500M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

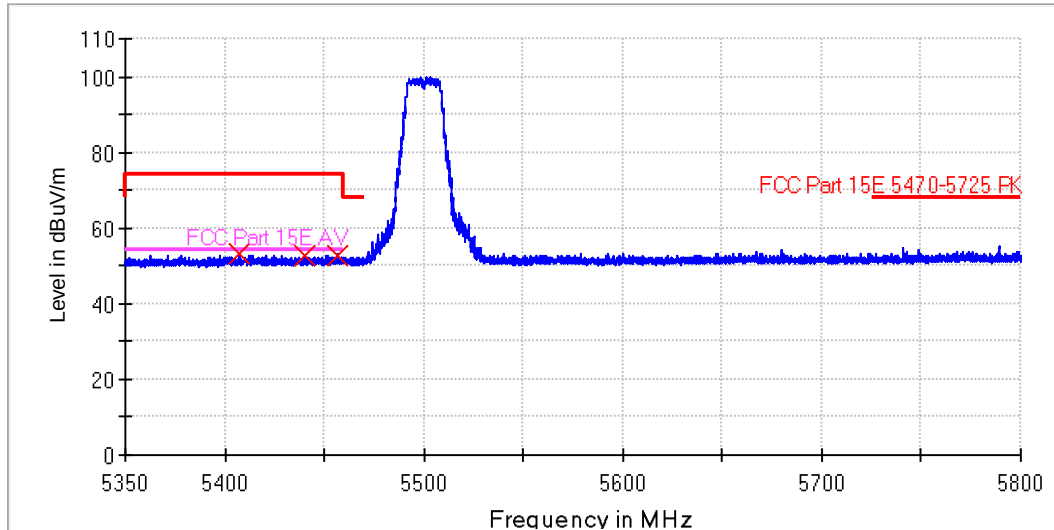
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10997.500000	57.5	42.3	150.0	H	63.0	13.6	16.5	74.0	11.8	54.0
17783.500000	53.0	---	150.0	H	129.0	22.1	21.0	74.0	---	---
17990.500000	54.0	---	150.0	H	193.0	22.1	20.0	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5407.500000	53.0	150.0	H	302.1	10.0	21.0	74.0
5440.000000	52.8	150.0	H	133.0	10.1	21.2	74.0
5457.000000	52.9	150.0	H	9.5	10.2	21.1	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

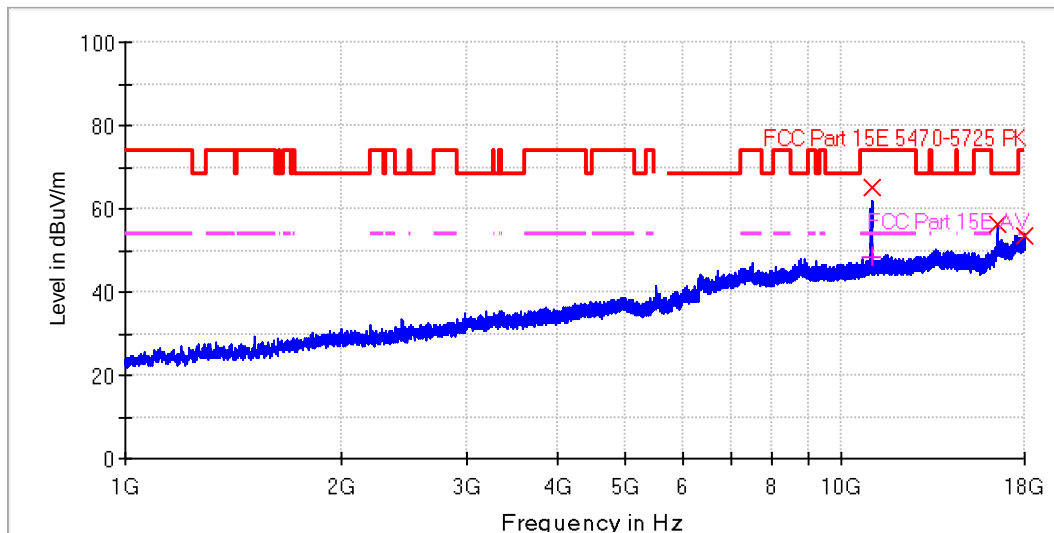
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5500M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

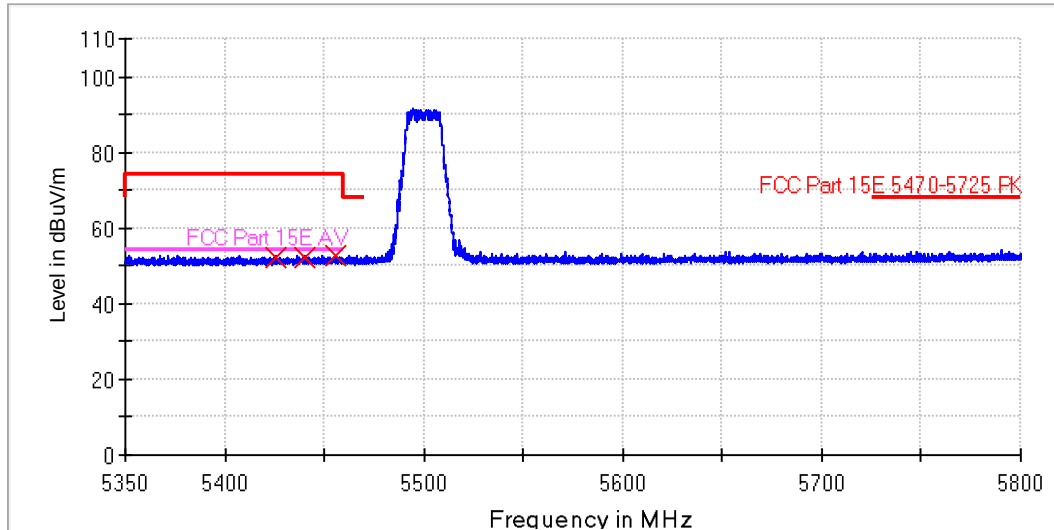
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
10999.500000	64.9	48.6	150.0	V	147.0	13.6	9.1	74.0	5.4	54.0
16506.000000	56.4	---	150.0	V	188.0	18.4	11.8	68.2	---	---
17973.000000	53.3	---	150.0	V	200.0	22.1	20.7	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5425.500000	52.4	150.0	V	48.4	10.1	21.6	74.0
5440.000000	52.4	150.0	V	234.2	10.1	21.6	74.0
5455.500000	52.8	150.0	V	167.9	10.2	21.2	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

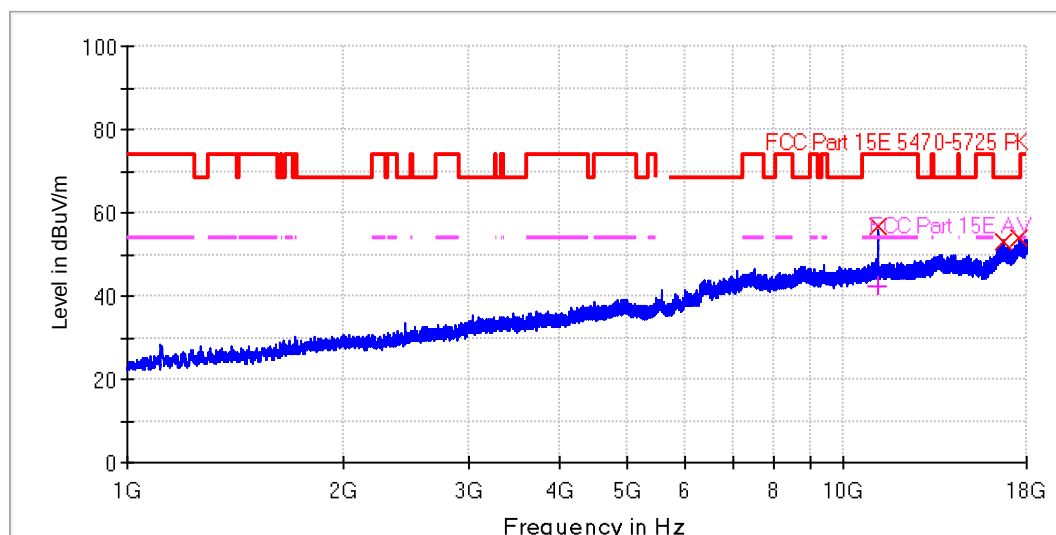
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5580M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11160.500000	56.6	42.5	150.0	H	42.0	13.9	17.4	74.0	11.5	54.0
16726.500000	52.9	---	150.0	H	92.0	19.3	15.3	68.2	---	---
17596.500000	53.9	---	150.0	H	92.0	22.0	14.3	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

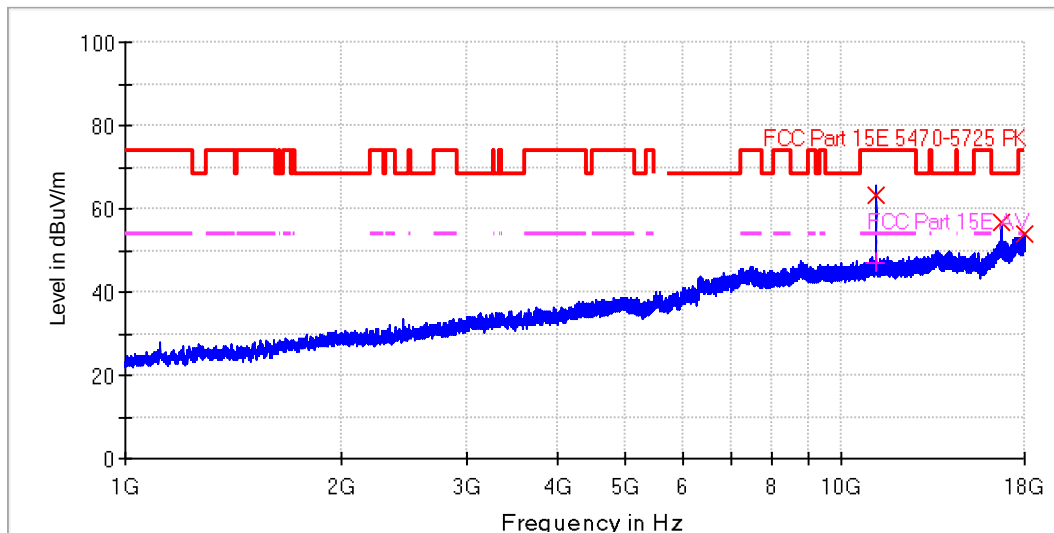
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5580M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11159.500000	63.4	46.9	150.0	V	10.0	13.9	10.7	74.0	7.2	54.0
16742.000000	57.0	---	150.0	V	28.0	19.3	11.2	68.2	---	---
17996.000000	54.0	---	150.0	V	150.0	22.1	20.0	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

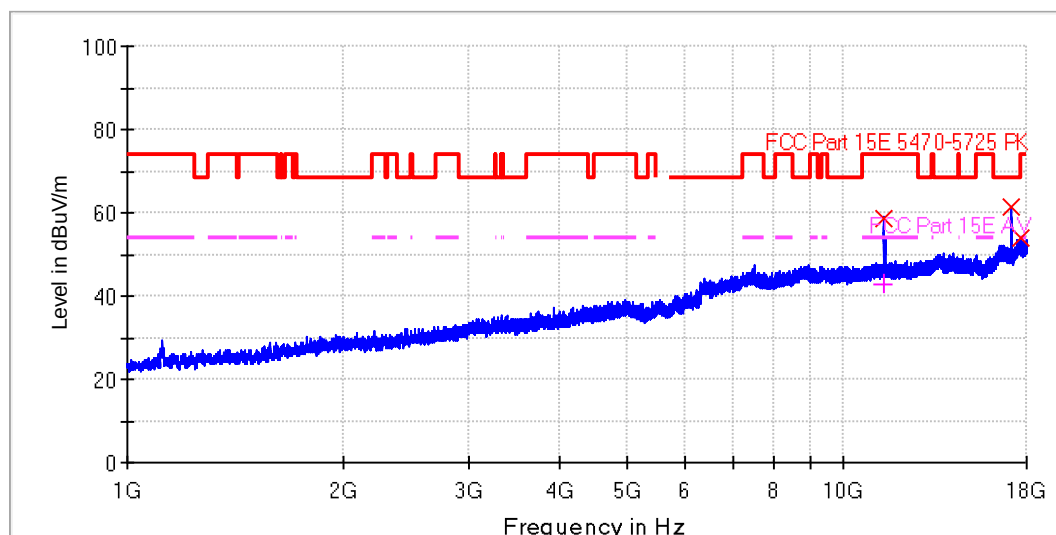
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5700M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

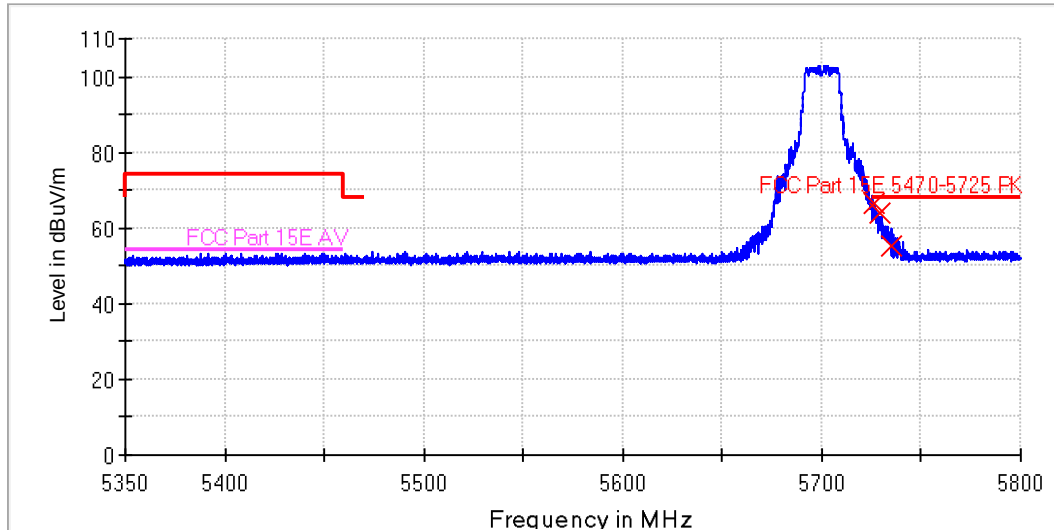
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11399.000000	58.8	42.8	150.0	H	113.0	14.0	15.2	74.0	11.2	54.0
17112.500000	61.3	---	150.0	H	146.0	20.3	6.9	68.2	---	---
17615.000000	54.0	---	150.0	H	143.0	22.0	14.2	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5726.500000	66.5	150.0	H	208.0	10.7	1.7	68.2
5729.000000	64.1	150.0	H	151.0	10.7	4.1	68.2
5735.000000	55.0	150.0	H	46.0	10.7	13.2	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

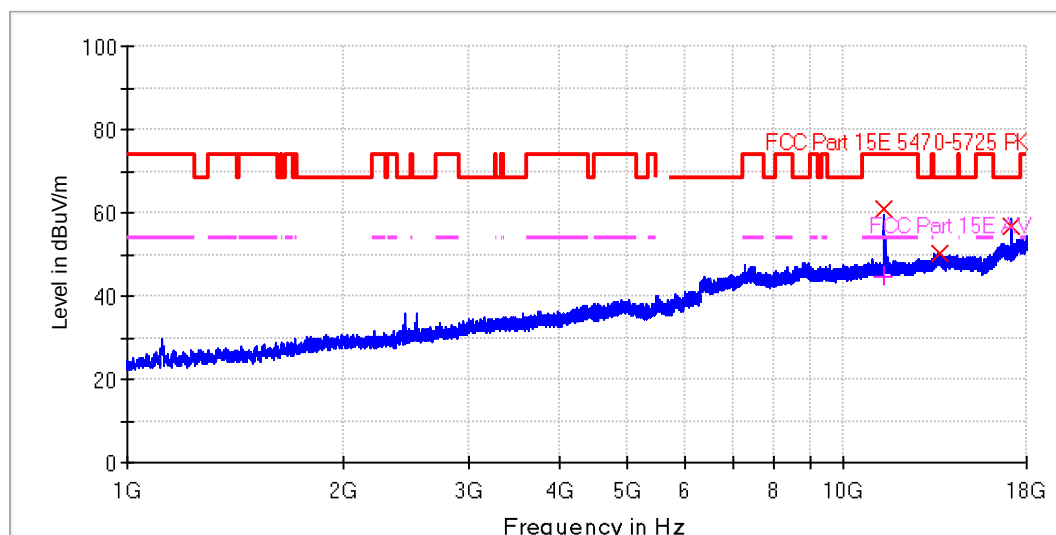
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5700M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

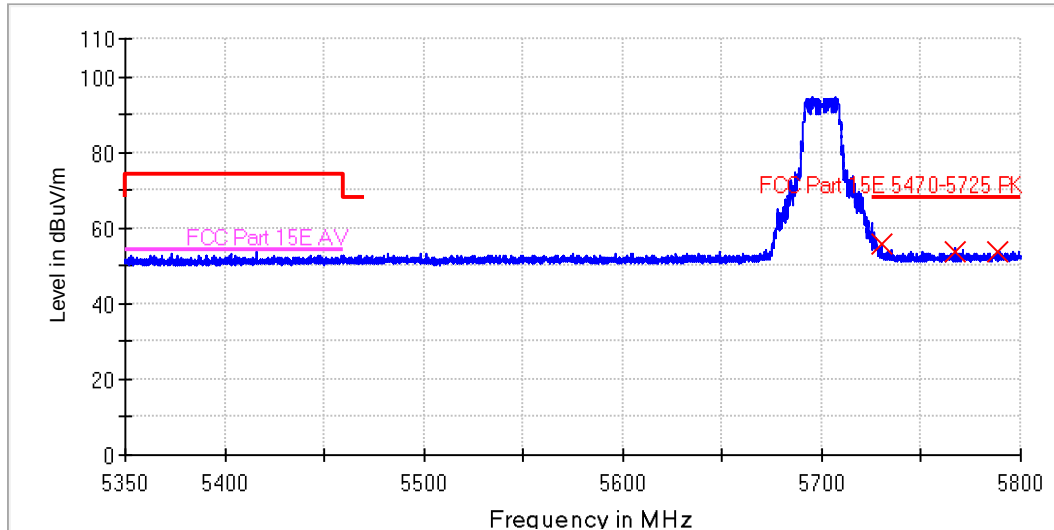
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11395.000000	60.7	44.8	150.0	H	257.0	14.0	13.3	74.0	9.2	54.0
13632.500000	50.1	---	150.0	H	322.0	17.1	18.1	68.2	---	---
17094.500000	56.9	---	150.0	H	22.0	20.2	11.3	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5730.000000	55.9	150.0	V	339.5	10.7	12.3	68.2
5767.000000	53.8	150.0	V	258.6	10.9	14.4	68.2
5788.000000	53.8	150.0	V	26.3	11.0	14.4	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

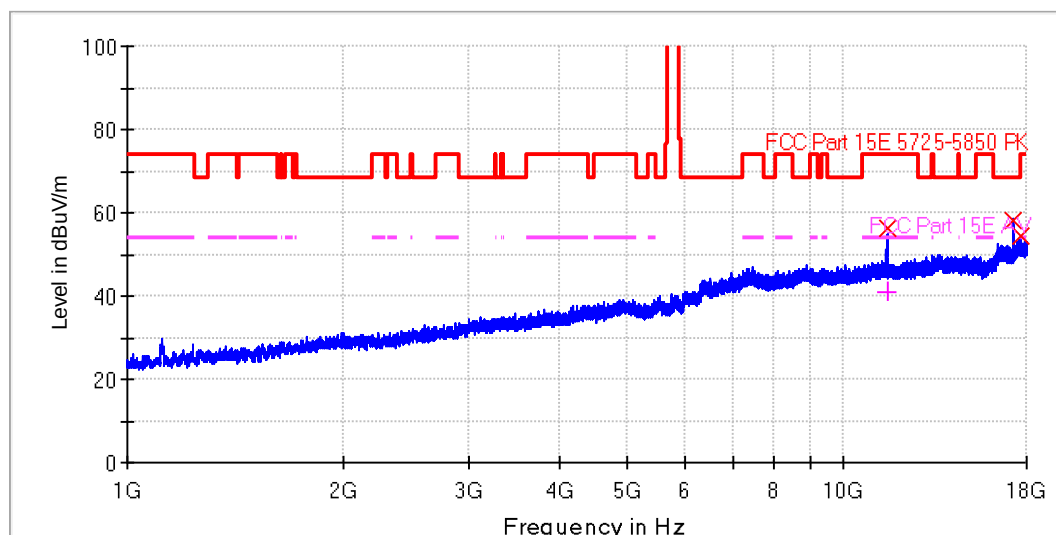
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5745M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

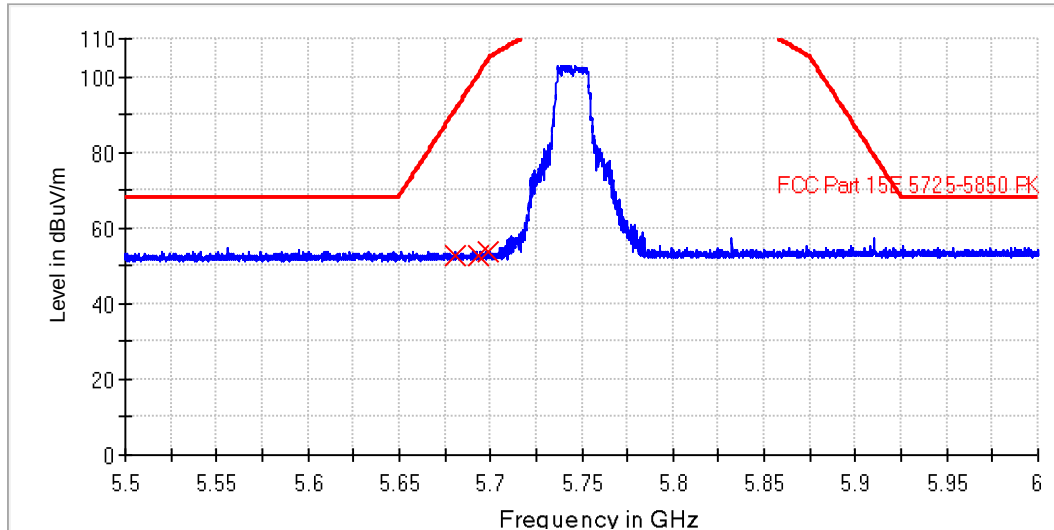
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11485.000000	56.2	40.9	150.0	H	10.0	14.1	17.8	74.0	13.1	54.0
17232.000000	58.3	---	150.0	H	324.0	20.7	9.9	68.2	---	---
17659.000000	54.4	---	150.0	H	262.0	22.0	13.8	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5681.000000	52.9	150.0	H	75.8	10.6	38.3	91.1
5693.000000	52.9	150.0	H	43.5	10.6	47.2	100.0
5699.000000	53.5	150.0	H	220.0	10.6	50.9	104.5

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

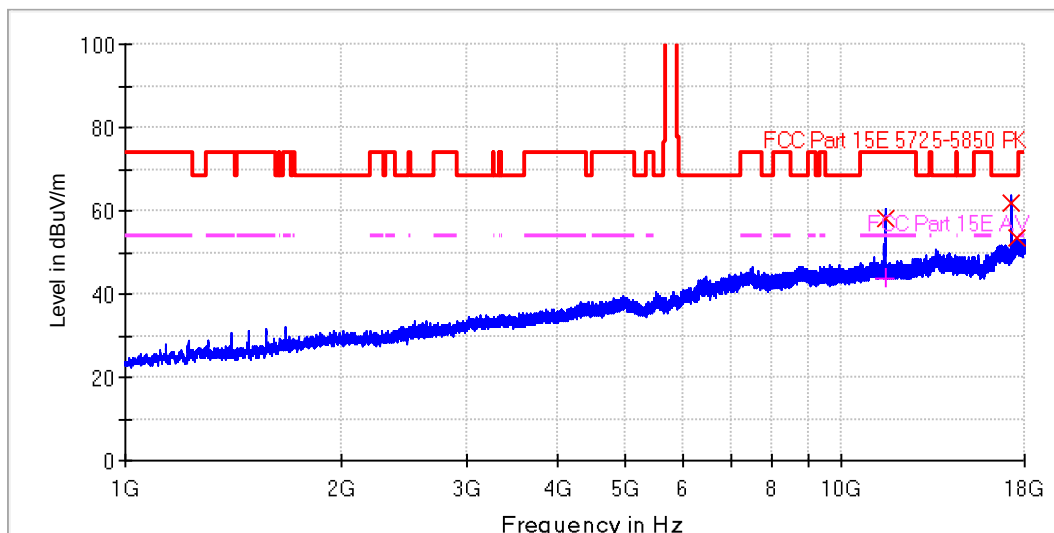
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5745M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

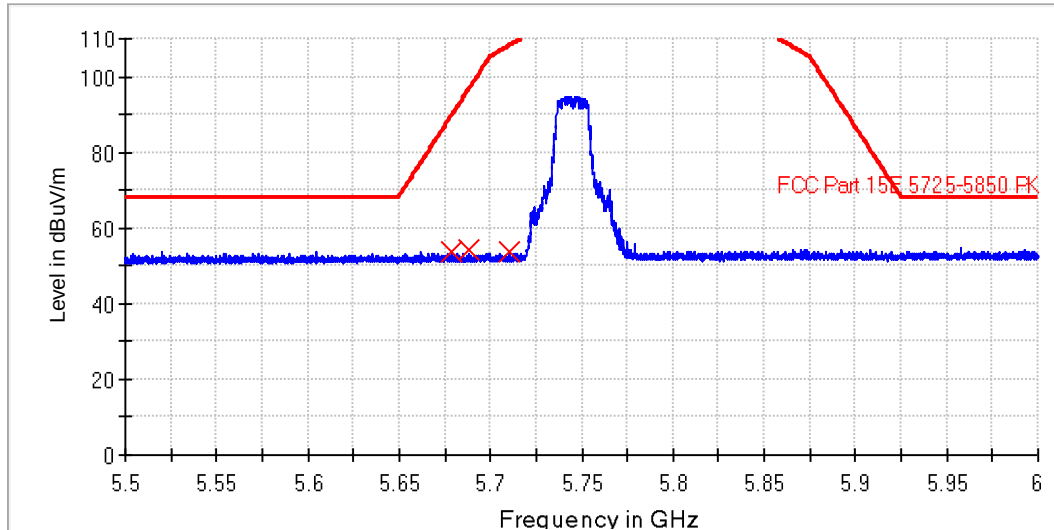
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11494.000000	58.2	43.6	150.0	V	22.8	14.1	15.8	74.0	10.4	54.0
17223.000000	61.9	---	150.0	V	286.0	20.7	6.3	68.2	---	---
17610.000000	53.5	---	150.0	V	274.0	22.0	14.7	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5679.000000	53.7	150.0	V	72.6	10.5	35.9	89.7
5688.500000	54.3	150.0	V	211.9	10.6	42.4	96.7
5710.500000	53.6	150.0	V	245.9	10.6	54.5	108.1

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

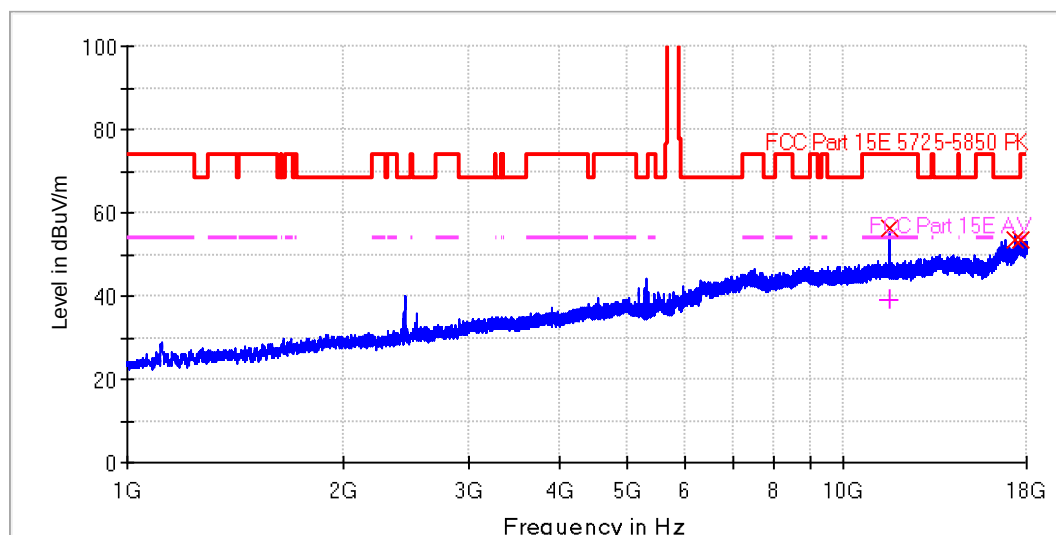
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5785M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11560.500000	56.3	39.2	150.0	H	28.3	14.1	17.7	74.0	14.8	54.0
17360.000000	53.3	---	150.0	H	255.0	21.2	14.9	68.2	---	---
17625.000000	53.6	---	150.0	H	128.9	22.0	14.6	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

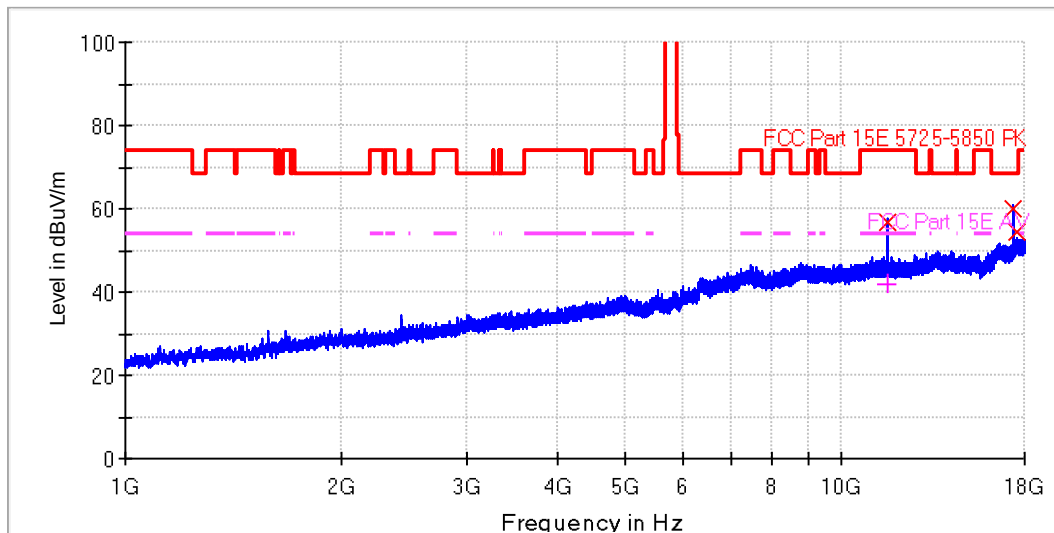
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5785M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11573.000000	56.9	41.9	150.0	V	26.0	14.1	17.1	74.0	12.1	54.0
17349.000000	60.1	---	90.0	V	114.0	21.2	8.1	68.2	---	---
17594.500000	54.3	---	90.0	V	208.0	21.9	13.9	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

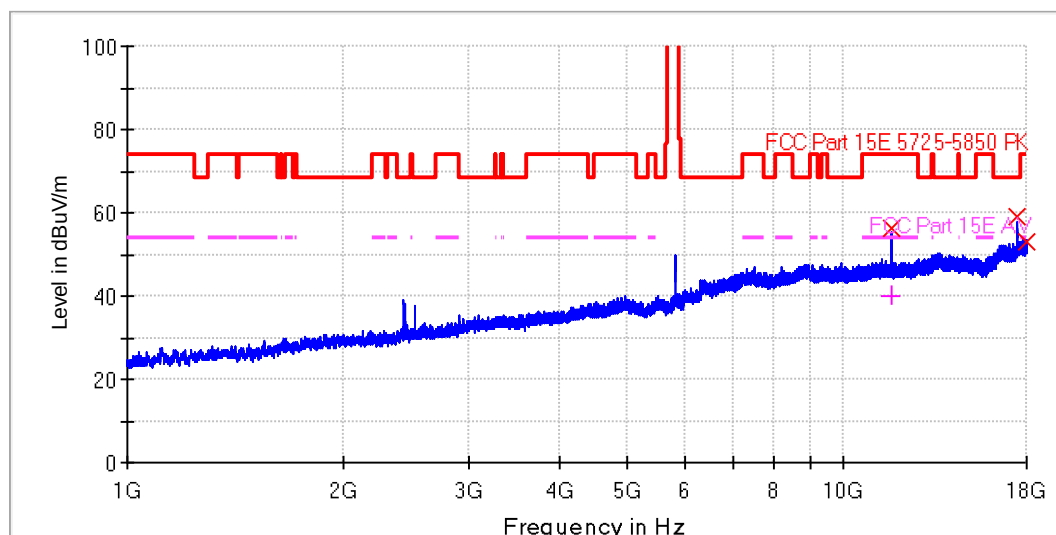
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5825M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

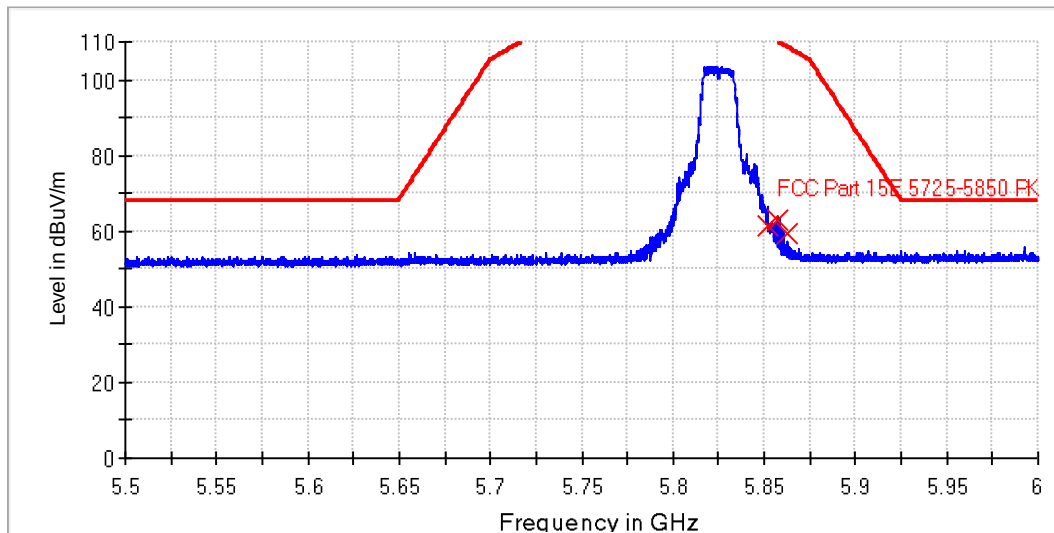
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11647.500000	56.1	40.1	150.0	H	340.0	14.1	17.9	74.0	13.9	54.0
17480.000000	59.1	---	150.0	H	218.0	21.7	9.1	68.2	---	---
17983.500000	53.1	---	150.0	H	10.0	22.1	20.9	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5851.500000	61.5	150.0	H	339.0	11.1	57.3	118.8
5857.500000	62.9	150.0	H	264.0	11.1	47.2	110.1
5863.000000	59.3	150.0	H	155.0	11.1	49.3	108.6

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

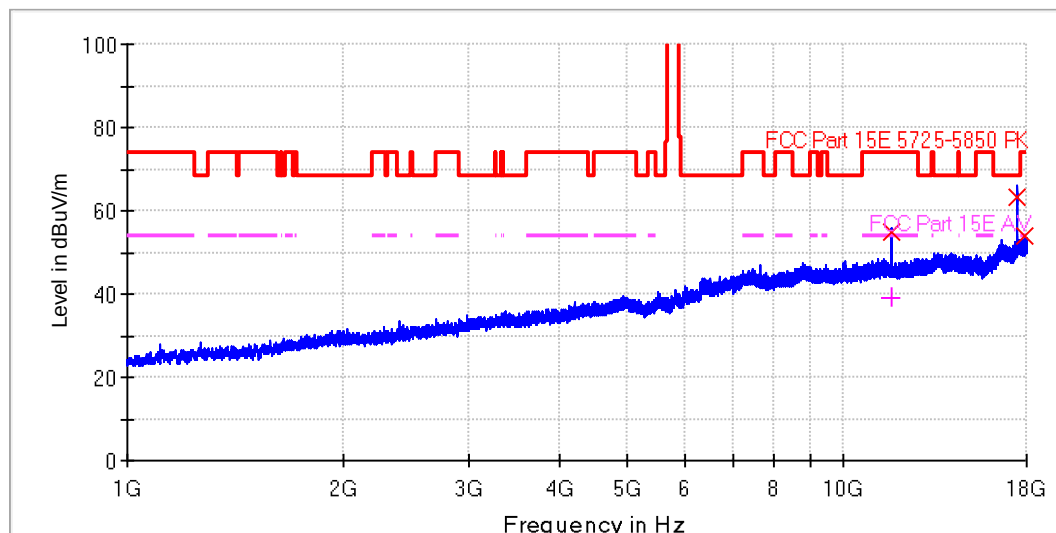
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT20: 5825M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

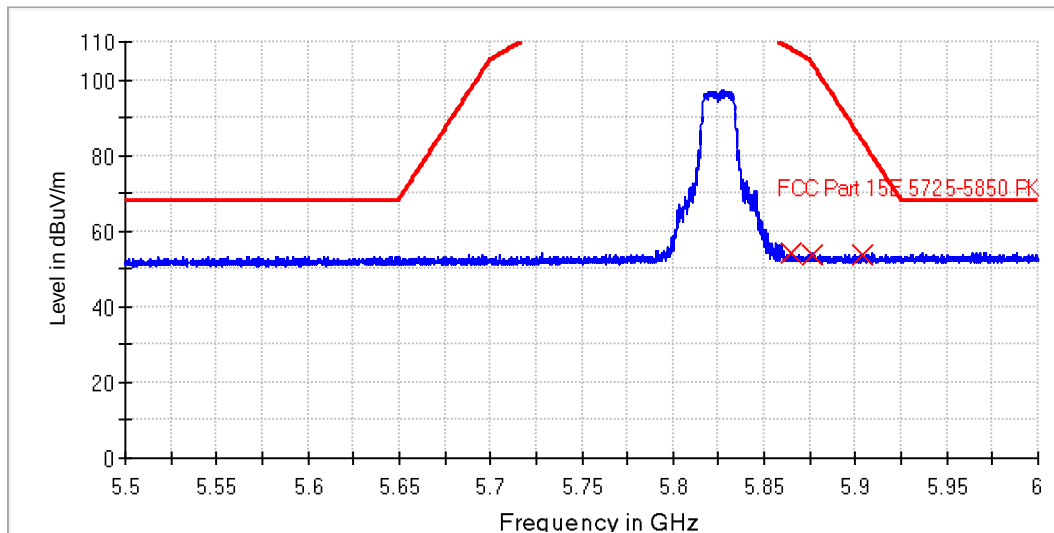
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11646.500000	54.7	38.9	150.0	V	20.0	14.1	19.3	74.0	15.1	54.0
17469.000000	63.2	---	150.0	V	254.0	21.7	5.0	68.2	---	---
17930.000000	53.7	---	150.0	V	154.0	22.1	20.3	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5865.000000	54.4	150.0	V	211.9	11.1	53.6	108.0
5876.000000	53.8	150.0	V	245.9	11.1	50.6	104.5
5904.000000	53.8	150.0	V	347.7	11.1	29.9	83.7

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

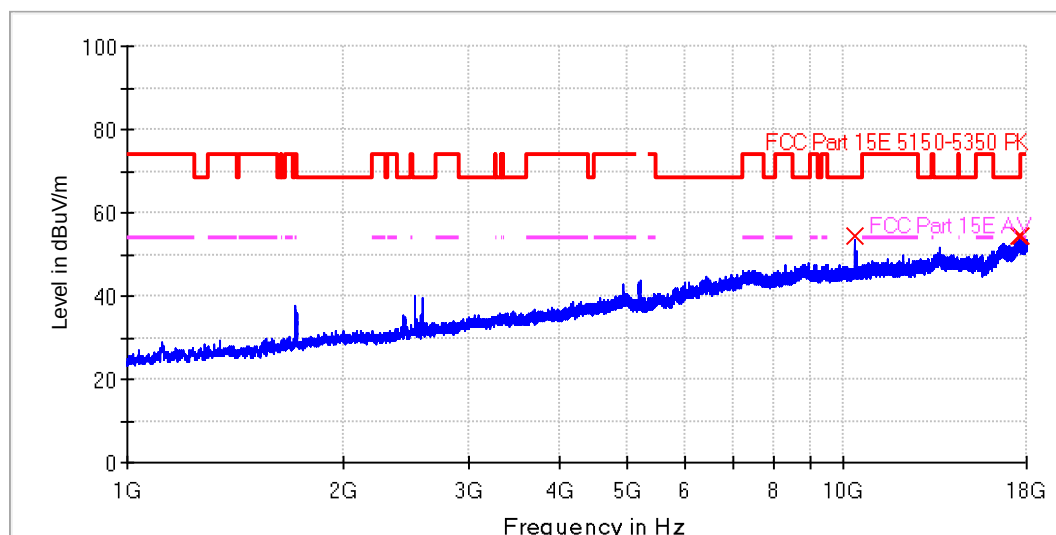
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5190M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

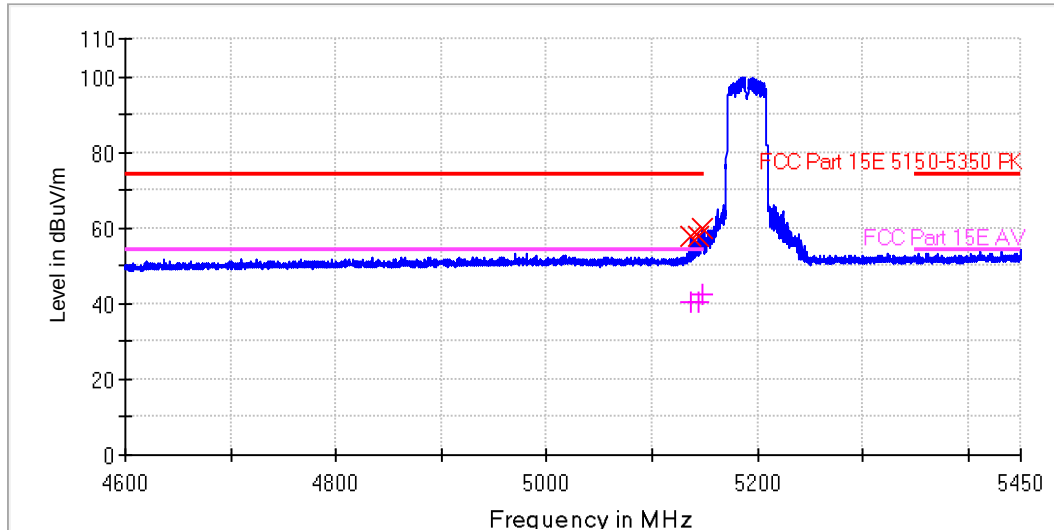
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10388.500000	54.6	150.0	H	286.6	12.6	13.7	68.2
17550.500000	54.2	150.0	H	157.1	21.9	14.0	68.2
17652.000000	54.4	150.0	H	192.9	22.0	13.9	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5137.000000	57.6	40.4	150.0	H	290.0	9.6	16.4	74.0	13.6	54.0
5143.500000	57.7	40.6	150.0	H	0.0	9.6	16.3	74.0	13.4	54.0
5147.000000	60.1	42.4	150.0	H	132.0	9.6	13.9	74.0	11.6	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

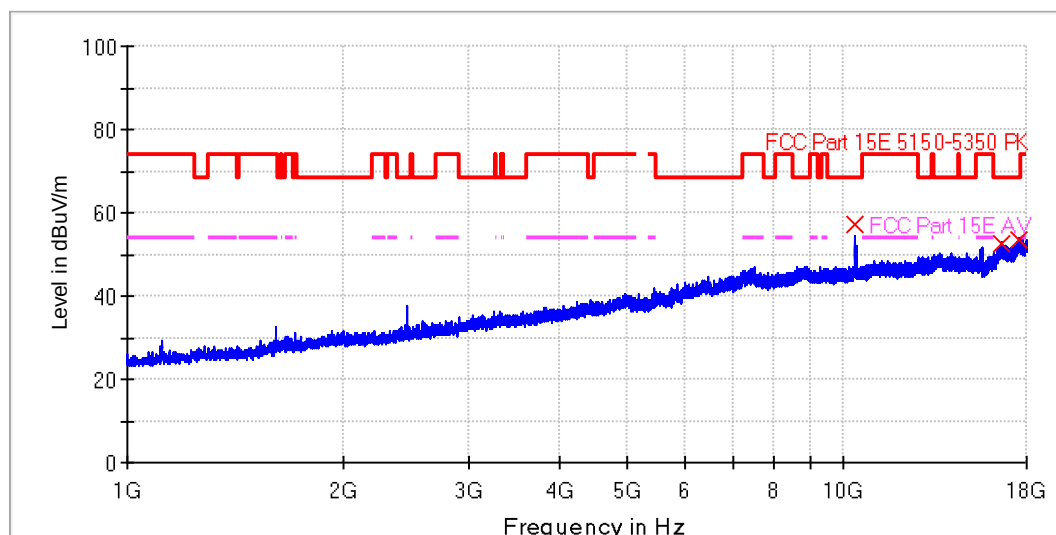
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5190M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

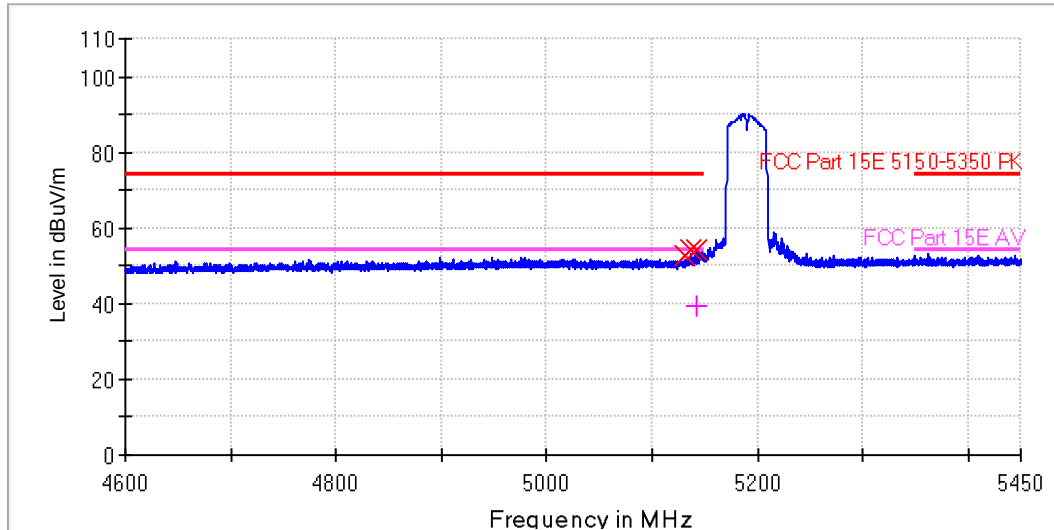
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10376.500000	57.1	150.0	V	105.4	12.5	11.1	68.2
16651.000000	52.6	150.0	V	8.9	19.1	15.6	68.2
17512.000000	53.7	150.0	V	73.2	21.8	14.5	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5132.000000	52.7	---	150.0	V	304.2	9.6	21.4	74.0	---	---
5136.500000	54.0	---	150.0	V	106.0	9.6	20.0	74.0	---	---
5143.000000	54.4	39.4	150.0	V	180.2	9.6	19.6	74.0	14.6	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain



1-18G Radiated Emission Test

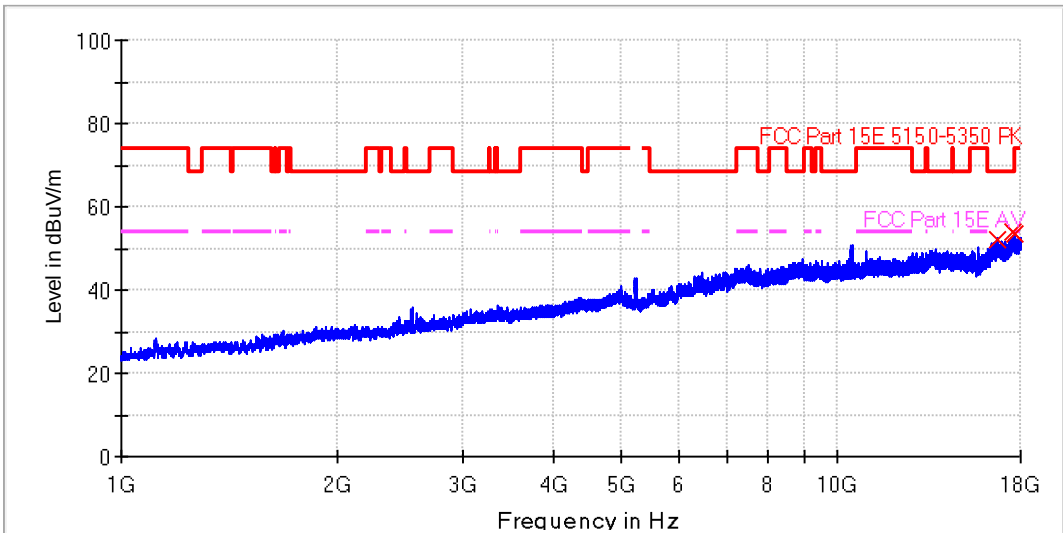
Common Information

EUT:	Dual Band Wireless Multi-mode Gateway
Model:	THP01-ZB-V5
Client:	Zhejiang Lingzhu Technology Co., Ltd
Operating conditions:	Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5230M
Operator name:	Zhihua Xia
Input:	AC 120V 60Hz
Sample No:	WUX 0896895-002
Test standard:	FCC Part 15.407(b)
Comment:	Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup:	FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver:	[FSV 40]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
16723.500000	52.0	150.0	H	8.2	19.3	16.2	68.2
17522.500000	53.8	150.0	H	120.8	21.8	14.4	68.2
17617.500000	53.4	150.0	H	178.5	22.0	14.8	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

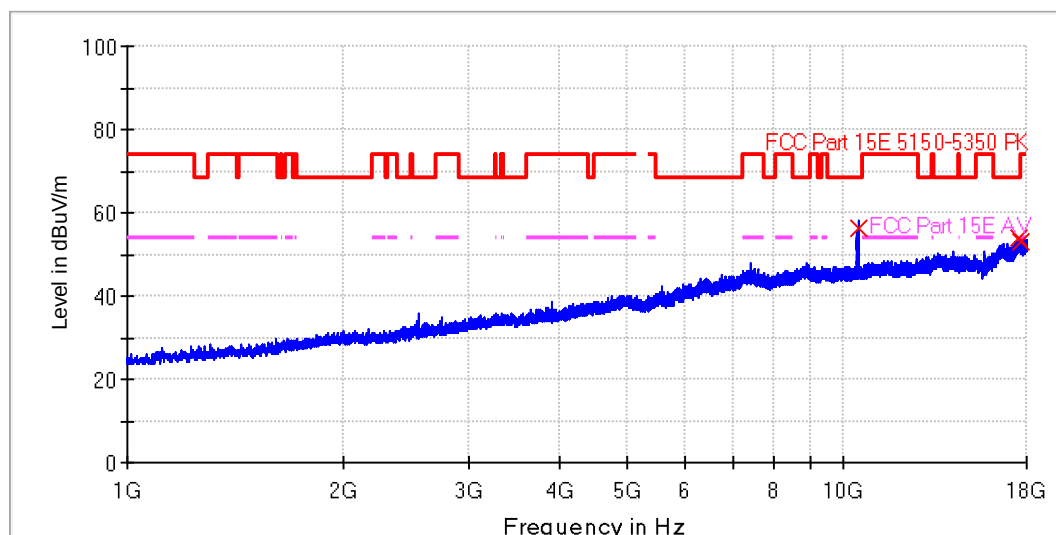
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5230M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10465.500000	56.1	150.0	V	59.0	12.9	12.1	68.2
17554.500000	53.9	150.0	V	229.0	21.9	14.3	68.2
17690.500000	52.9	150.0	V	137.0	22.0	15.3	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

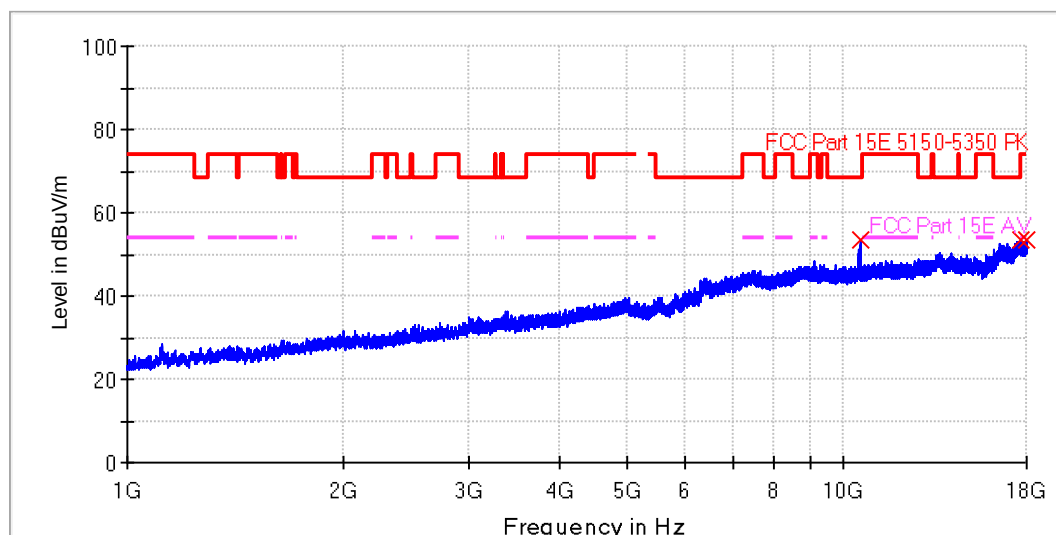
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5270M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10537.500000	53.3	150.0	H	150.0	13.2	14.9	68.2
17713.500000	53.5	150.0	H	217.0	22.0	20.5	74.0
17979.000000	53.3	150.0	H	262.0	22.1	20.7	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

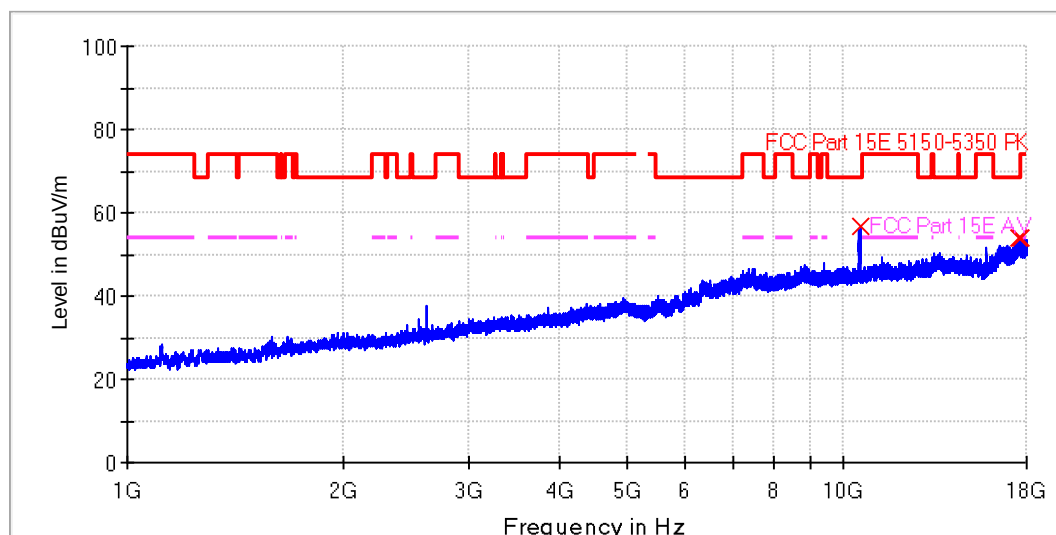
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5270M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10544.000000	56.8	150.0	V	264.0	13.2	11.4	68.2
17589.500000	54.2	150.0	V	0.0	21.9	14.0	68.2
17629.000000	53.9	150.0	V	118.0	22.0	14.3	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

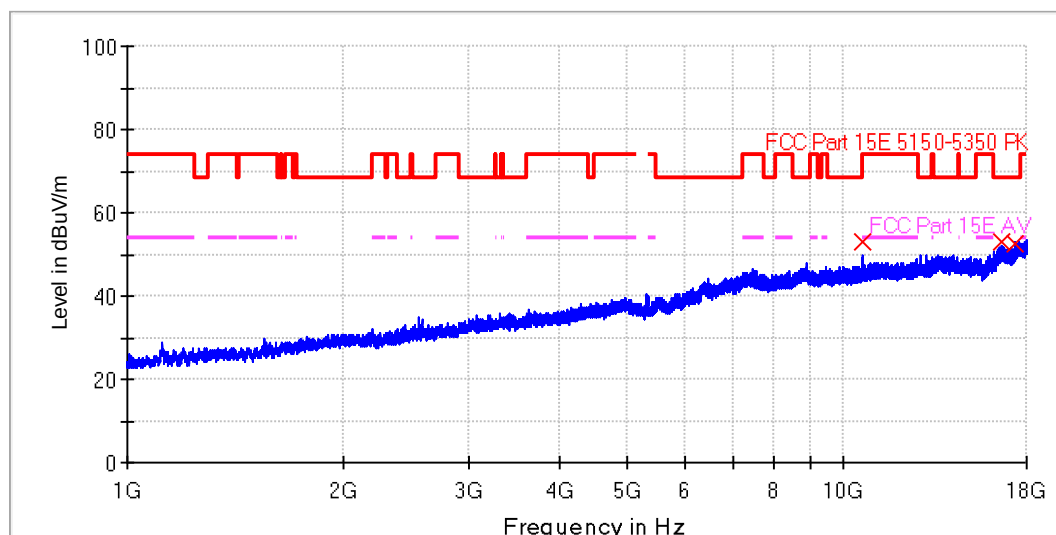
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5310M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

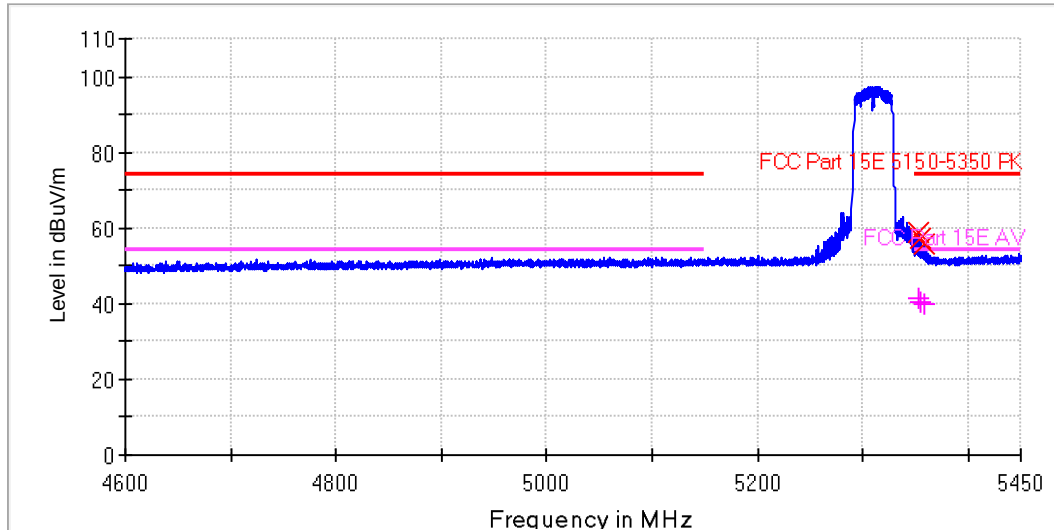
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10619.000000	52.8	150.0	H	47.0	13.2	21.2	74.0
16628.500000	53.1	150.0	H	47.0	19.0	15.1	68.2
17388.000000	52.5	150.0	H	47.0	21.3	15.7	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5352.500000	58.9	41.2	150.0	H	218.0	9.9	15.1	74.0	12.8	54.0
5355.500000	57.4	40.3	150.0	H	162.0	9.9	16.6	74.0	13.7	54.0
5358.500000	55.6	39.8	150.0	H	96.0	9.9	18.4	74.0	14.3	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

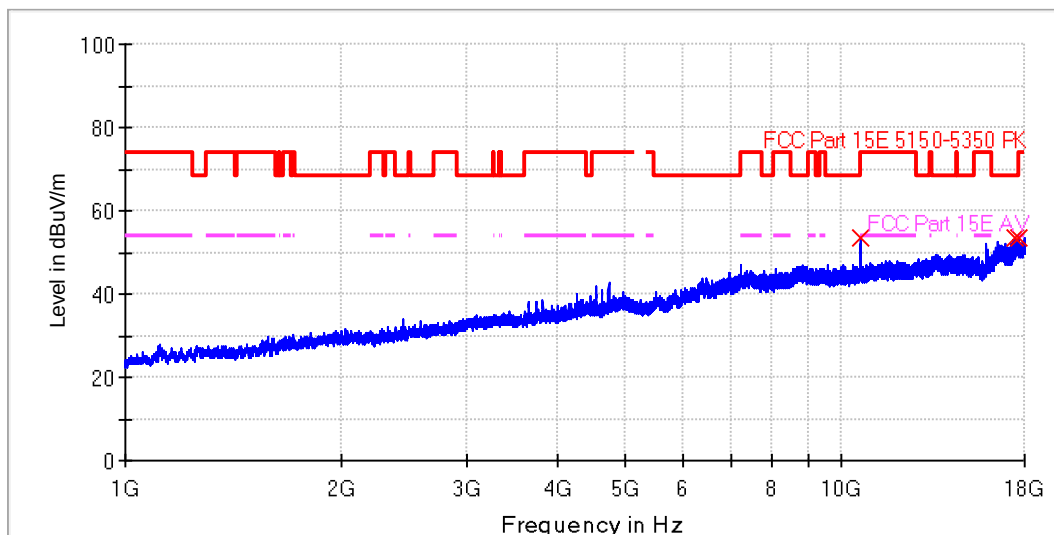
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5310M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

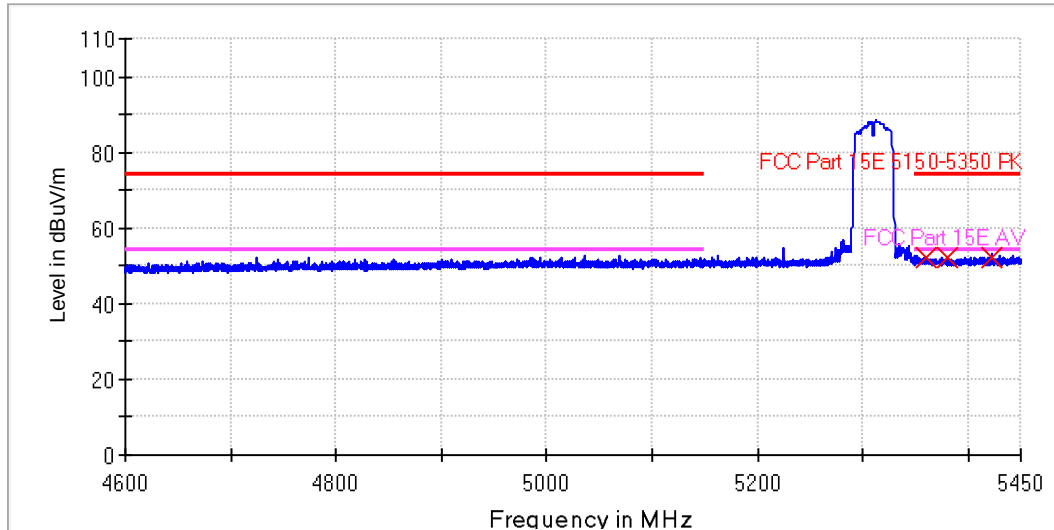
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
10619.000000	53.3	150.0	V	311.0	13.2	20.7	74.0
17457.500000	53.4	150.0	V	156.0	21.6	14.8	68.2
17614.500000	53.6	150.0	V	226.0	22.0	14.6	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-4600-5400 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
4.6 GHz - 5.45 GHz	170 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5360.000000	52.0	150.0	V	57.0	9.9	22.0	74.0
5380.500000	52.3	150.0	V	318.3	9.9	21.7	74.0
5422.500000	52.4	150.0	V	283.3	10.1	21.6	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain



1-18G Radiated Emission Test

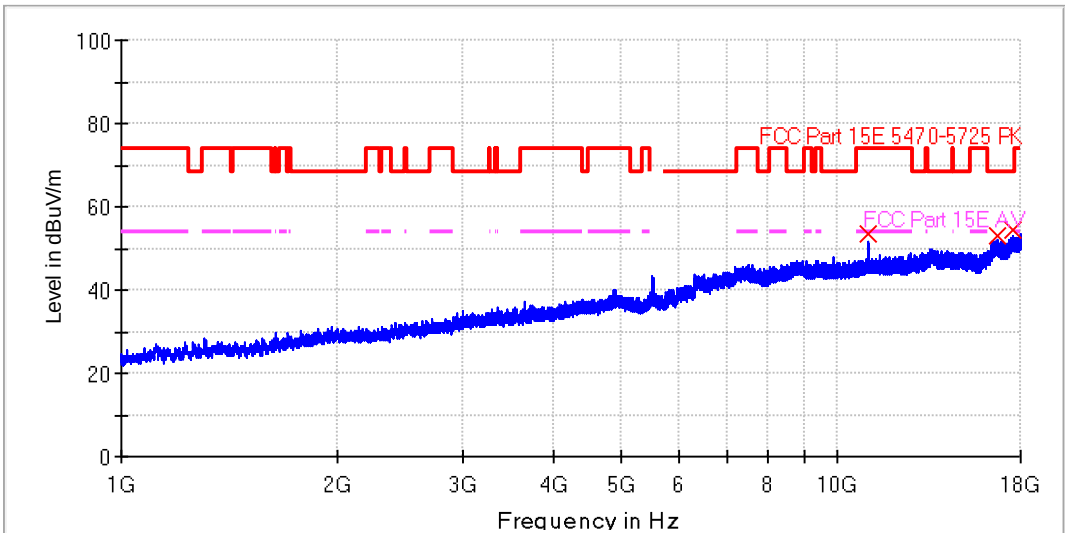
Common Information

EUT:	Dual Band Wireless Multi-mode Gateway
Model:	THP01-ZB-V5
Client:	Zhejiang Lingzhu Technology Co., Ltd
Operating conditions:	Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5510M
Operator name:	Zhihua Xia
Input:	AC 120V 60Hz
Sample No:	WUX 0896895-002
Test standard:	FCC Part 15.407(b)
Comment:	Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup:	FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver:	[FSV 40]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

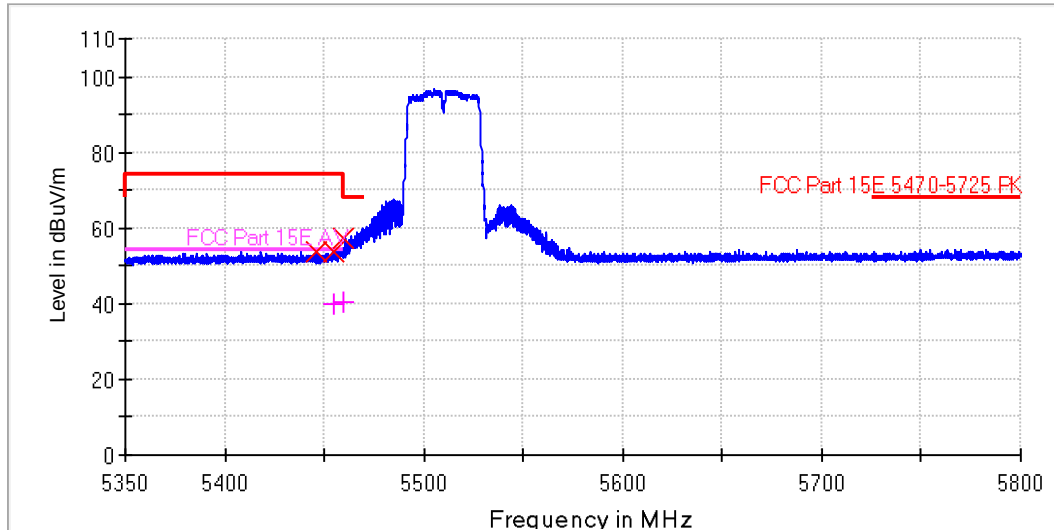
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
11017.000000	53.5	150.0	H	0.0	13.7	20.5	74.0
16670.000000	53.1	150.0	H	0.0	19.2	15.2	68.2
17563.500000	54.3	150.0	H	0.0	21.9	13.9	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
5446.000000	53.8	---	150.0	H	68.9	10.1	20.2	74.0	---	---
5454.500000	53.8	39.7	150.0	H	342.8	10.2	20.2	74.0	14.3	54.0
5459.500000	57.4	40.3	150.0	H	97.3	10.2	16.6	74.0	13.7	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

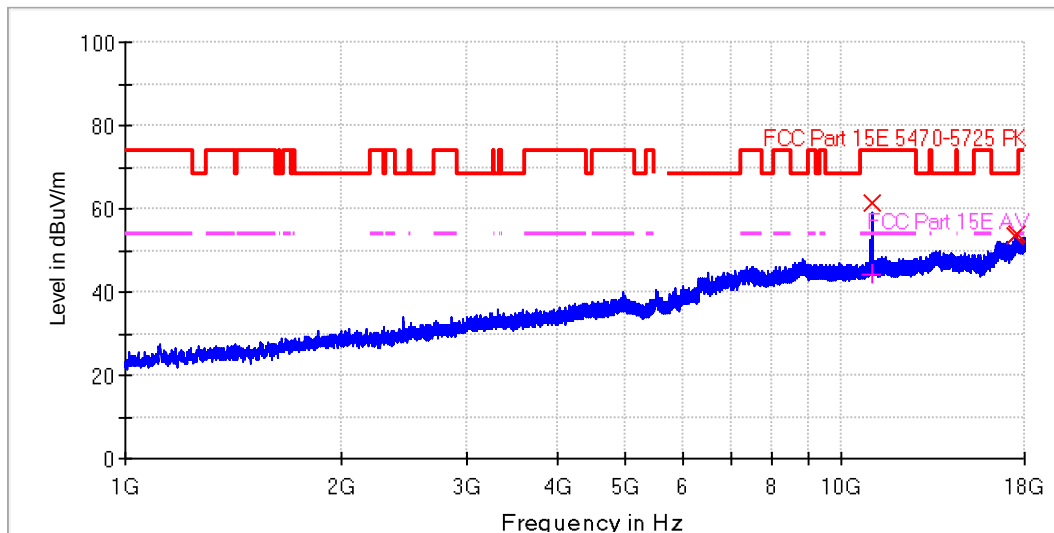
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5510M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

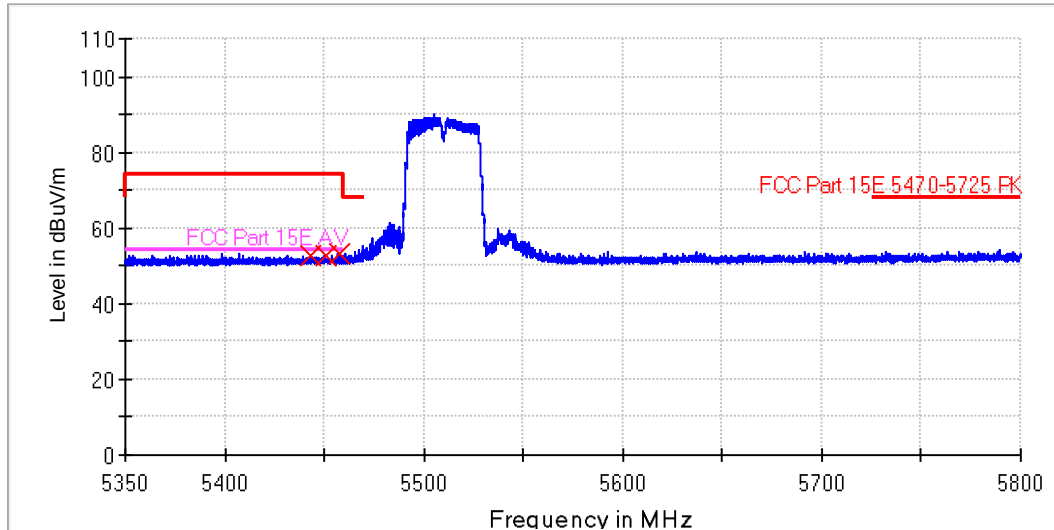
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11017.500000	61.6	44.4	150.0	V	265.0	13.7	12.4	74.0	9.6	54.0
17441.000000	53.7	---	150.0	V	324.0	21.6	14.5	68.2	---	---
17566.500000	54.0	---	150.0	V	324.0	21.9	14.2	68.2	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5443.000000	52.8	150.0	V	192.1	10.1	21.2	74.0
5450.500000	52.6	150.0	V	102.0	10.2	21.4	74.0
5458.000000	53.2	150.0	V	268.1	10.2	20.9	74.0

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

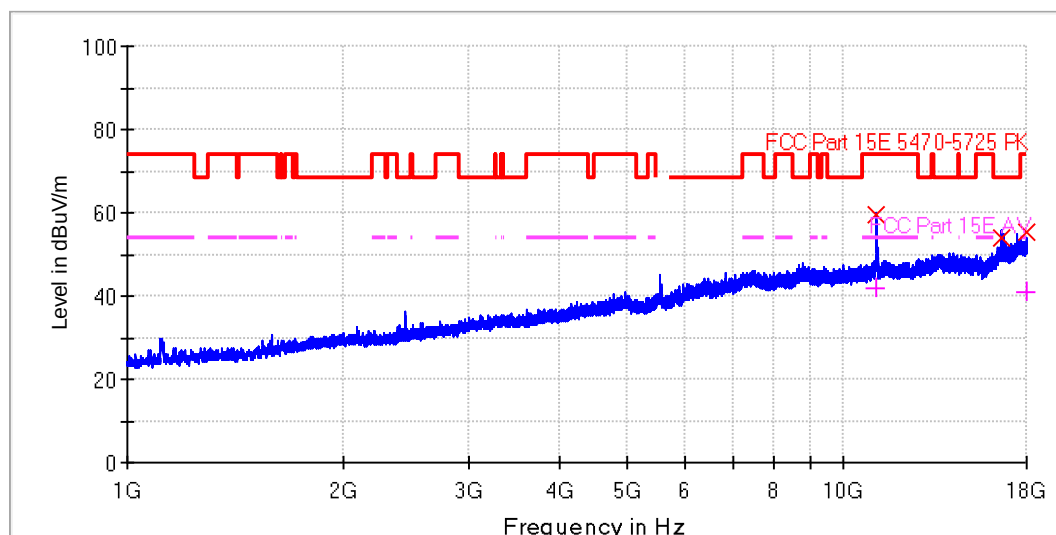
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5550M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11106.000000	59.4	41.9	150.0	H	90.0	13.8	14.6	74.0	12.1	54.0
16646.500000	54.1	---	150.0	H	247.0	19.1	14.1	68.2	---	---
17995.000000	55.2	40.9	150.0	H	277.0	22.1	18.8	74.0	13.2	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

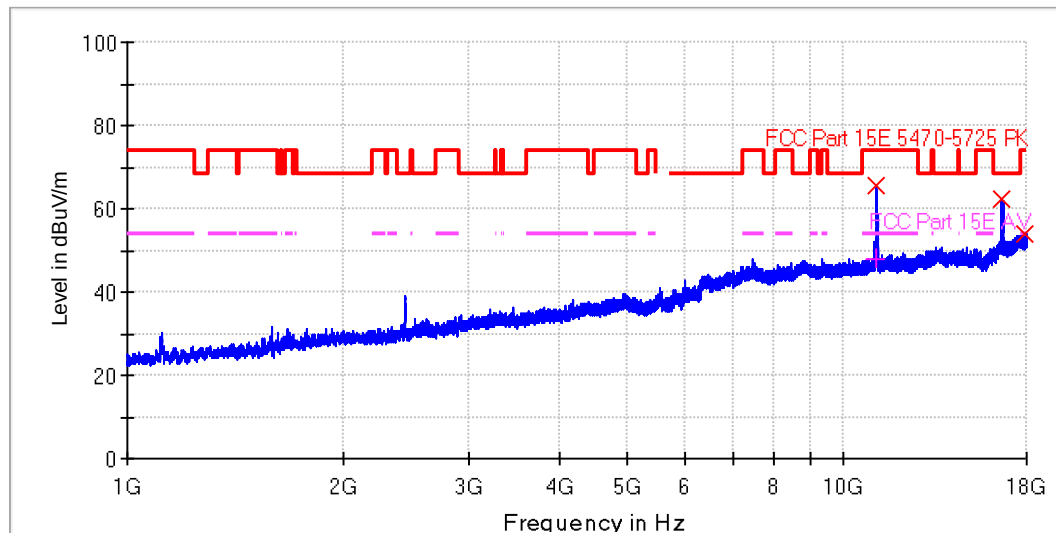
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5550M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11096.500000	65.6	48.0	150.0	V	44.0	13.8	8.4	74.0	6.0	54.0
16644.500000	62.1	---	150.0	V	193.0	19.1	6.1	68.2	---	---
17888.500000	53.8	---	150.0	V	33.0	22.1	20.2	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

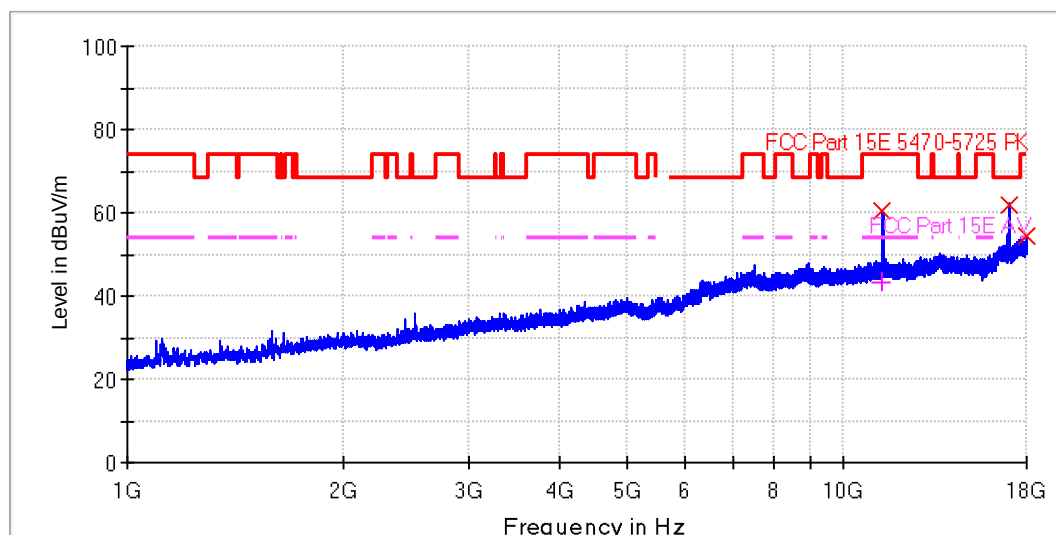
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5670M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

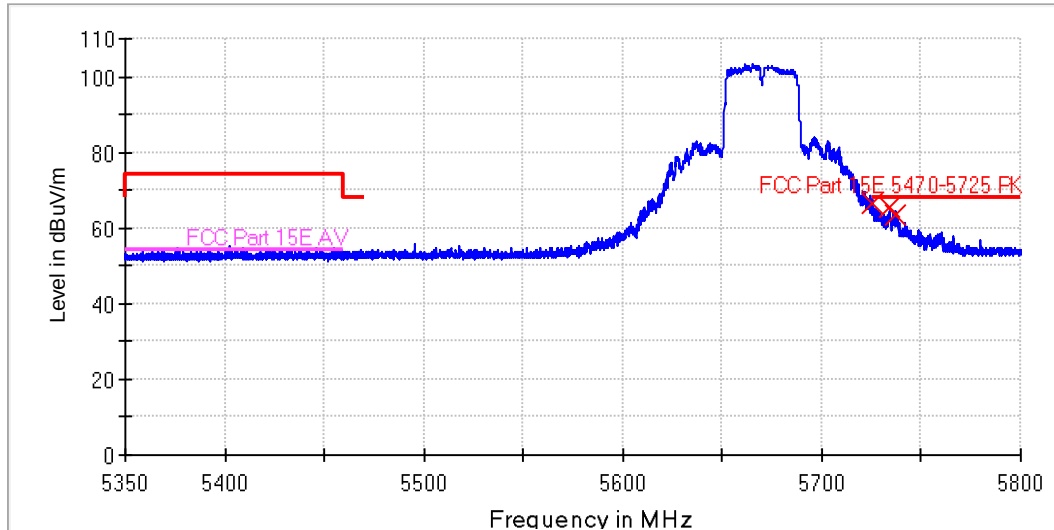
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11337.500000	60.4	43.2	150.0	H	278.3	13.9	13.6	74.0	10.8	54.0
17008.500000	62.0	---	150.0	H	283.2	19.9	6.2	68.2	---	---
17971.000000	54.5	---	150.0	H	135.2	22.1	19.5	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5725.000000	66.4	150.0	H	0.0	10.7	1.8	68.2
5734.000000	65.3	150.0	H	154.0	10.7	2.9	68.2
5736.500000	63.6	150.0	H	214.0	10.7	4.6	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

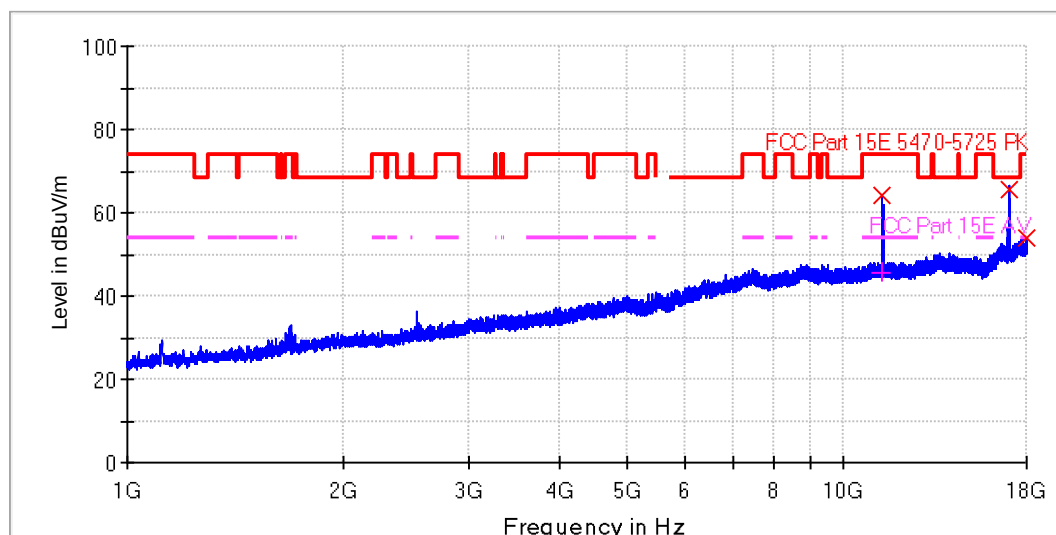
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5670M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

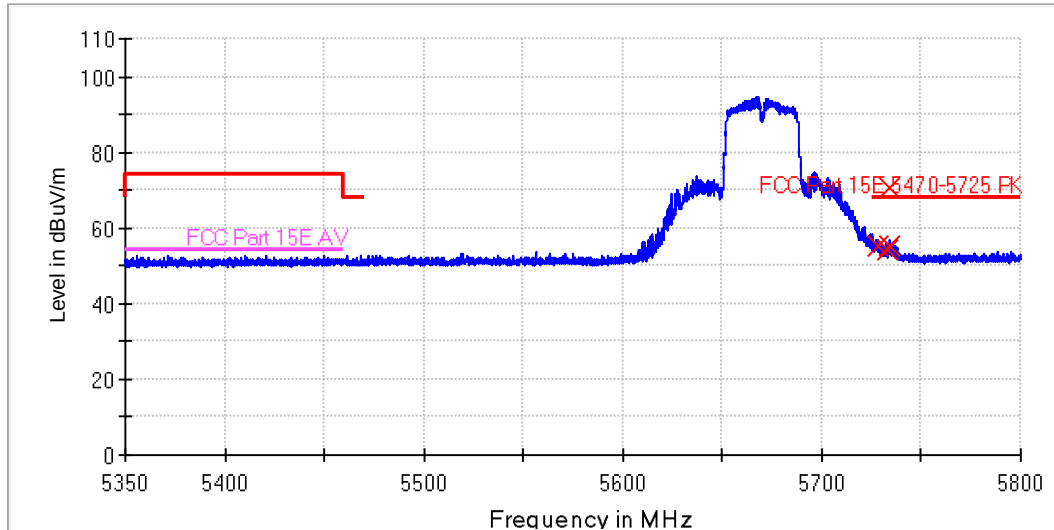
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11336.500000	64.0	45.4	150.0	V	0.0	13.9	10.0	74.0	8.6	54.0
17025.000000	65.4	---	150.0	V	29.0	20.0	2.8	68.2	---	---
17989.500000	54.0	---	150.0	V	70.0	22.1	20.0	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5350-5750 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.35 GHz - 5.8 GHz	90 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5728.500000	55.3	150.0	V	103.6	10.7	12.9	68.2
5733.000000	54.3	150.0	V	286.8	10.7	13.9	68.2
5734.000000	55.4	150.0	V	231.5	10.7	12.8	68.2

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain



1-18G Radiated Emission Test

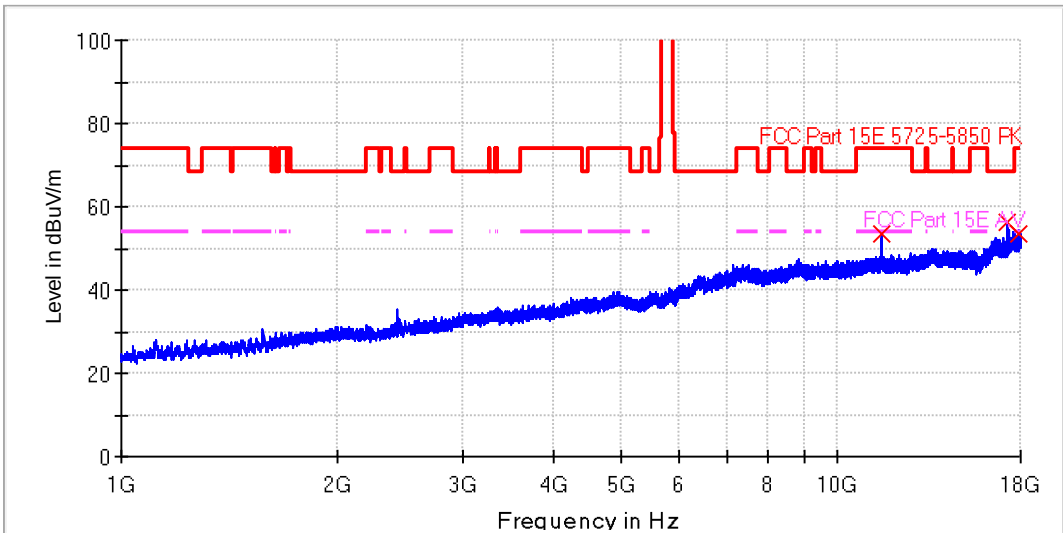
Common Information

EUT:	Dual Band Wireless Multi-mode Gateway
Model:	THP01-ZB-V5
Client:	Zhejiang Lingzhu Technology Co., Ltd
Operating conditions:	Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5755M
Operator name:	Zhihua Xia
Input:	AC 120V 60Hz
Sample No:	WUX 0896895-002
Test standard:	FCC Part 15.407(b)
Comment:	Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup:	FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver:	[FSV 40]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

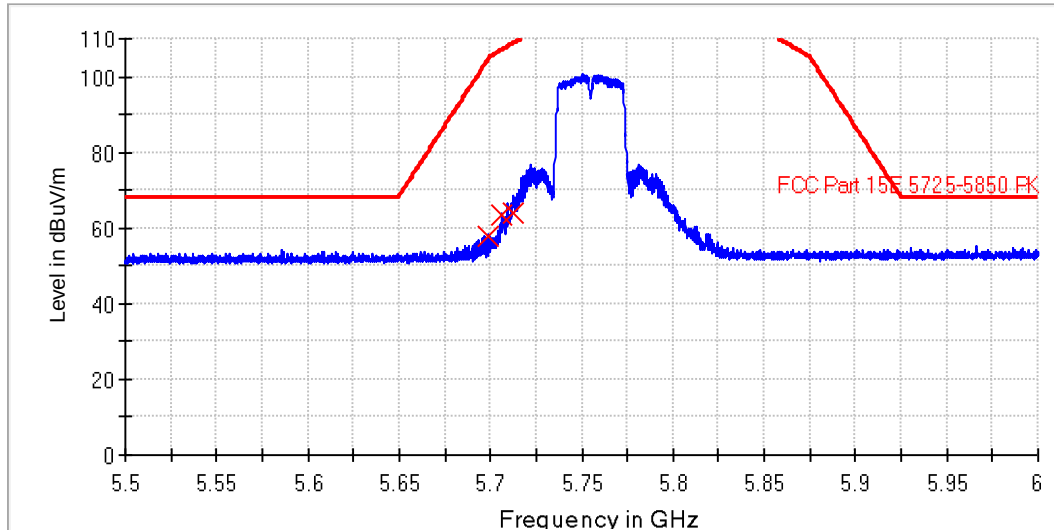
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
11498.500000	53.4	150.0	H	233.0	14.1	20.6	74.0
17286.000000	56.1	150.0	H	0.0	20.9	12.1	68.2
17883.500000	53.5	150.0	H	47.0	22.1	20.5	74.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5698.500000	58.0	150.0	H	282.0	10.6	46.1	104.1
5706.500000	63.3	150.0	H	188.0	10.6	43.8	107.0
5712.000000	64.1	150.0	H	106.0	10.6	44.5	108.6

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

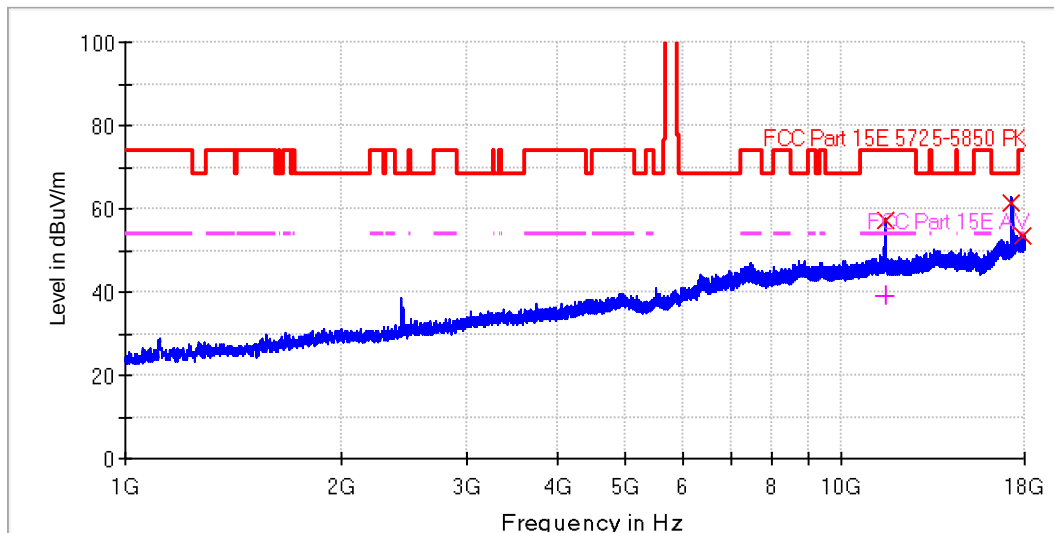
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5755M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

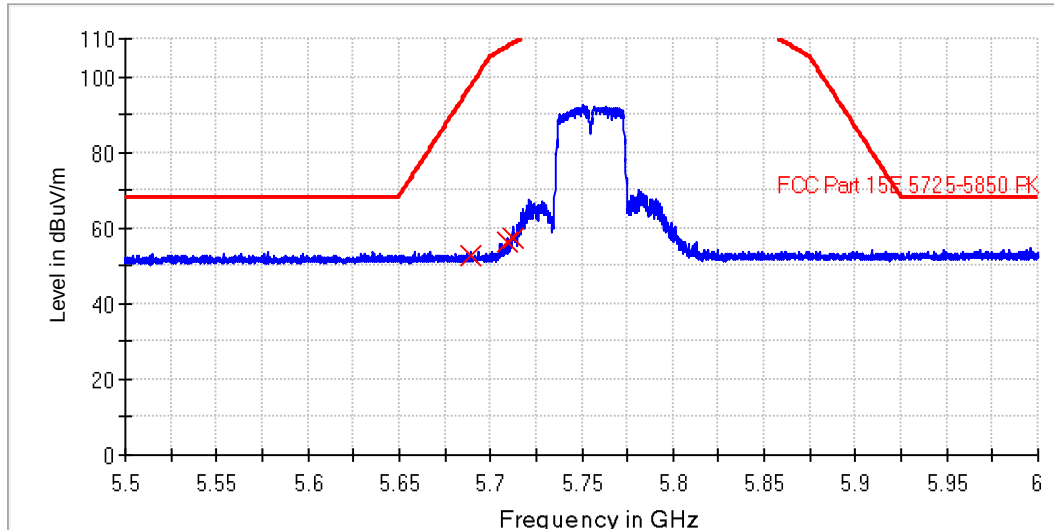
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11516.000000	57.0	39.2	150.0	V	0.0	14.1	17.0	74.0	14.8	54.0
17268.000000	61.3	---	150.0	V	227.0	20.9	6.9	68.2	---	---
17833.500000	53.4	---	150.0	V	158.0	22.1	20.6	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5689.000000	52.6	150.0	V	332.7	10.6	44.5	97.1
5709.500000	56.3	150.0	V	239.7	10.6	51.6	107.9
5712.500000	57.1	150.0	V	46.4	10.6	51.6	108.7

Note: Emission level= Original Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

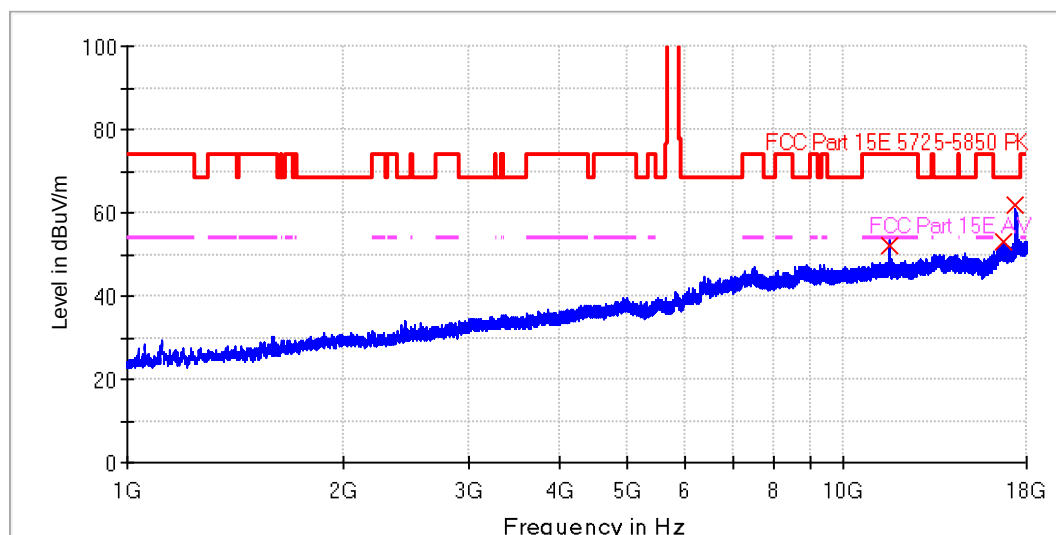
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5795M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Horizontal

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

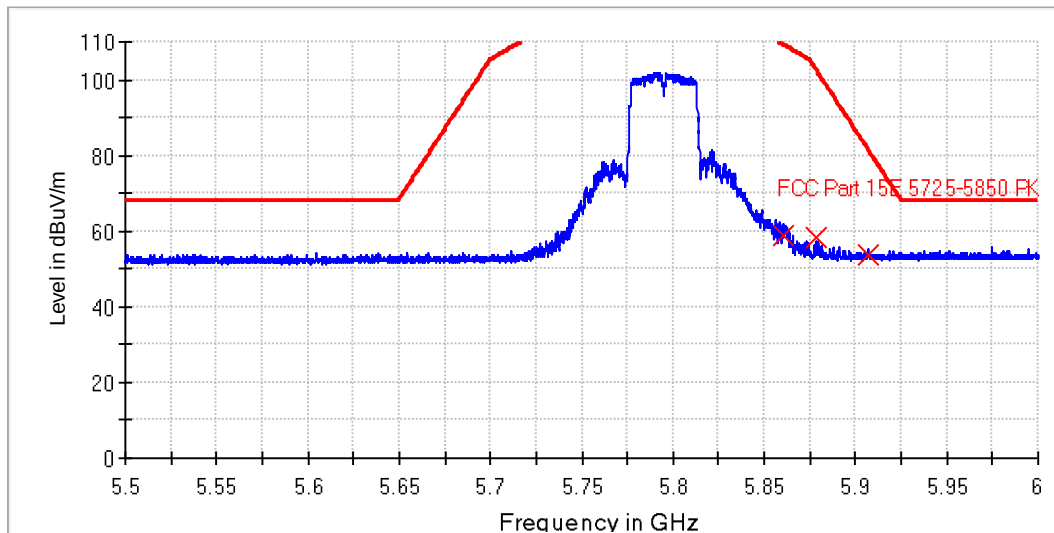
Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
11587.500000	52.1	150.0	H	123.7	14.1	21.9	74.0
16677.500000	53.0	150.0	H	106.0	19.2	15.2	68.2
17383.000000	61.8	150.0	H	188.3	21.3	6.4	68.2

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5860.500000	58.9	150.0	H	351.4	11.1	50.3	109.3
5878.500000	58.1	150.0	H	73.8	11.1	44.5	102.6
5906.500000	53.6	150.0	H	72.2	11.1	28.3	81.9

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

1-18G Radiated Emission Test

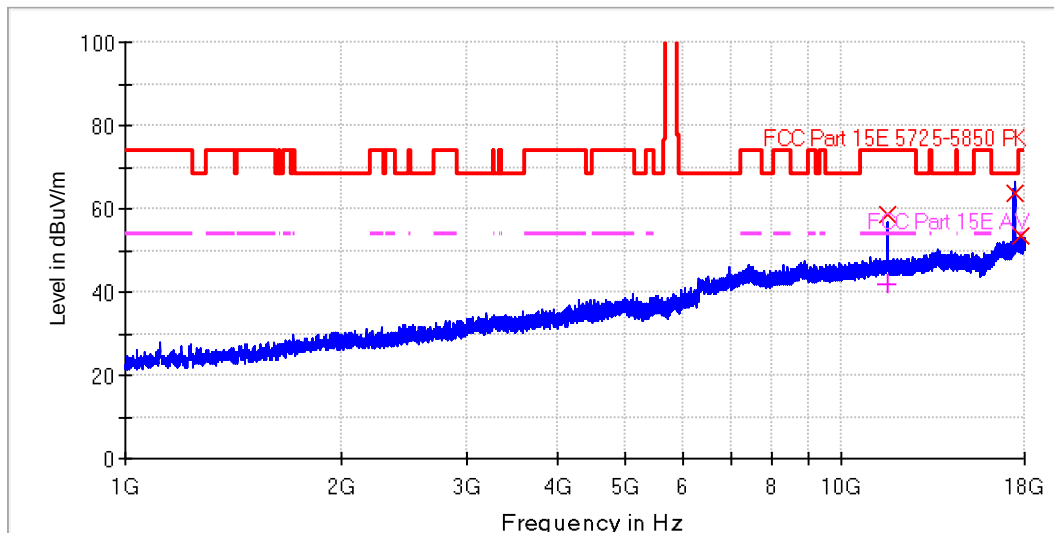
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11n HT40: 5795M
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.407(b)
Comment: Vertical

Sweep Setup: FCC_RE_1-18G Sweep 3m_bonn [EMI radiated]

Hardware Setup: FCC part15C Radiated E Field 1GHz-18GHz_3m_BONN
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 6.3 GHz	441.667 kHz	PK+	1 MHz	1 s	0 dB
6.3 GHz - 18 GHz	487.5 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

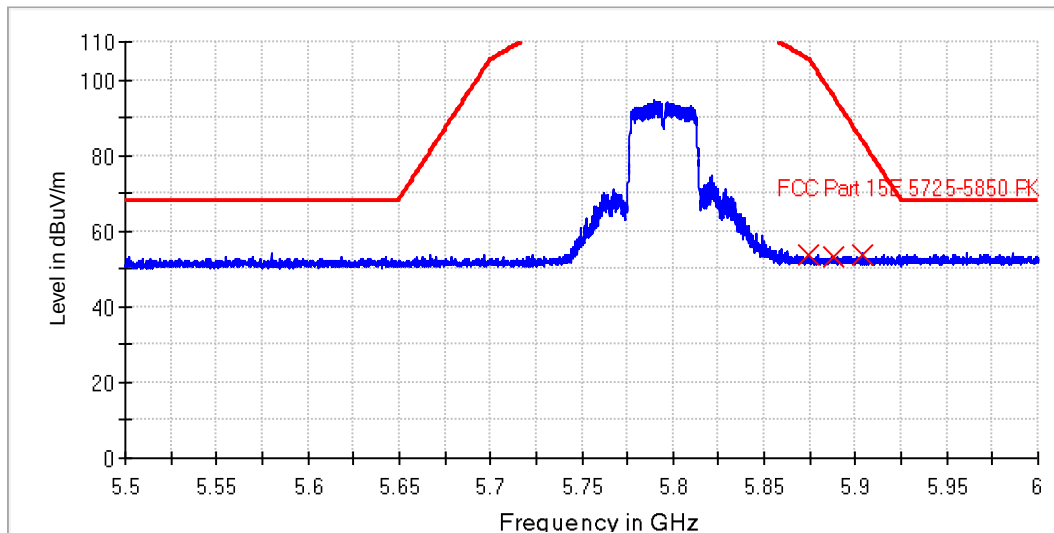
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
11588.500000	58.7	42.0	150.0	V	330.0	14.1	15.3	74.0	12.0	54.0
17407.000000	63.9	---	150.0	V	294.0	21.4	4.3	68.2	---	---
17804.000000	53.6	---	150.0	V	218.0	22.1	20.4	74.0	---	---

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Sweep Setup: FCC_Band edge-5500-6000 Sweep 3m_agilent [EMI radiated]

Hardware Setup: FCC part15E Radiated E Field 1GHz-18GHz_3m_Agilent
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
5.5 GHz - 6 GHz	100 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
5874.000000	53.5	150.0	V	215.0	11.1	52.0	105.5
5887.500000	53.5	150.0	V	29.1	11.1	42.5	96.0
5903.500000	53.9	150.0	V	312.2	11.1	30.2	84.1

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

The worst case of Radiated Emission above 18GHz:

18-40GHz Radiated Emission

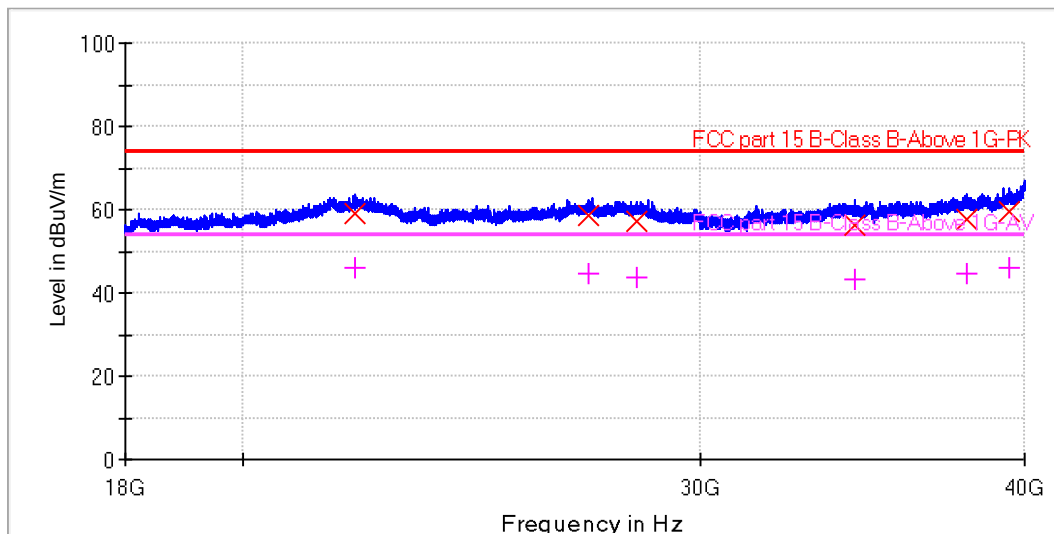
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11N HT20 5500MHz
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.209(a)
Comment: Horizontal

Sweep Setup: FCC_RE_18-40G_Sweep_3m [EMI radiated]

Hardware Setup: 18-40GHz_3m
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+	1 MHz	1 s	0 dB
26 GHz - 40 GHz	500 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
22089.000000	59.1	46.1	150.0	H	59.5	13.5	14.9	74.0	7.9	54.0
27153.500000	58.7	44.6	150.0	H	53.3	12.5	15.3	74.0	9.4	54.0
28346.500000	57.4	43.9	150.0	H	322.5	11.6	16.6	74.0	10.1	54.0
34390.000000	56.3	43.1	150.0	H	347.3	11.5	17.7	74.0	10.9	54.0
38026.500000	57.8	44.5	150.0	H	95.9	11.4	16.2	74.0	9.5	54.0
39448.500000	59.6	45.8	150.0	H	262.7	12.2	14.4	74.0	8.2	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

18-40GHz Radiated Emission

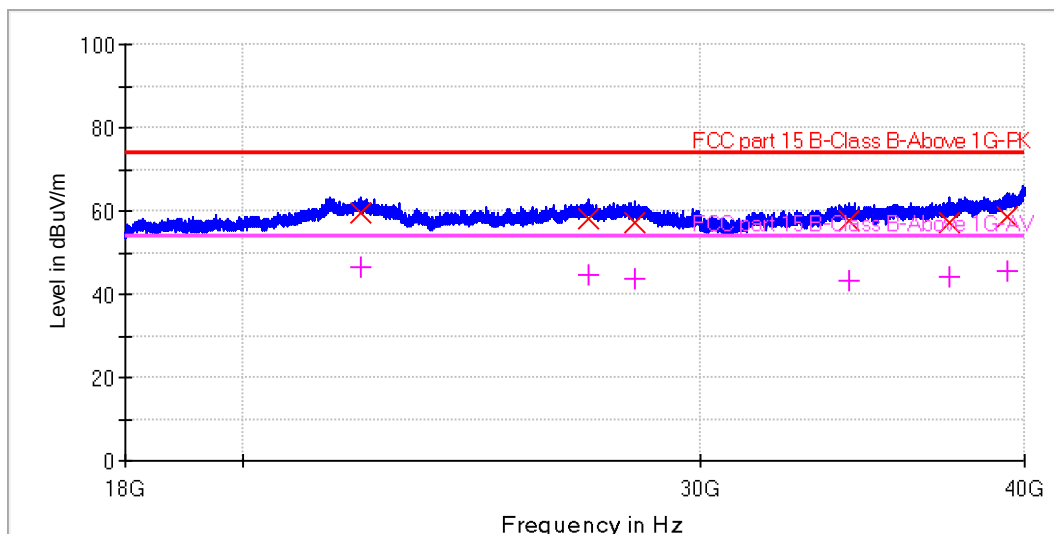
Common Information

EUT: Dual Band Wireless Multi-mode Gateway
Model: THP01-ZB-V5
Client: Zhejiang Lingzhu Technology Co., Ltd
Operating conditions: Power on, 5G Wi-Fi transmitting, 802.11N HT20 5500MHz
Operator name: Zhihua Xia
Input: AC 120V 60Hz
Sample No: WUX 0896895-002
Test standard: FCC Part 15.209(a)
Comment: Vertical

Sweep Setup: FCC_RE_18-40G_Sweep_3m [EMI radiated]

Hardware Setup: 18-40GHz_3m
Receiver: [FSV 40]
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+	1 MHz	1 s	0 dB
26 GHz - 40 GHz	500 kHz	PK+	1 MHz	1 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - Average (dB)	Limit - Average (dBuV/m)
22169.000000	59.6	46.4	150.0	V	131.9	13.4	14.4	74.0	7.6	54.0
27149.000000	57.9	44.6	150.0	V	142.5	12.5	16.1	74.0	9.4	54.0
28289.500000	57.2	43.8	150.0	V	135.9	11.7	16.8	74.0	10.2	54.0
34231.500000	57.5	43.5	150.0	V	236.4	11.5	16.5	74.0	10.6	54.0
37435.500000	57.4	44.0	150.0	V	9.5	11.1	16.6	74.0	10.0	54.0
39379.500000	58.6	45.8	150.0	V	205.2	12.1	15.4	74.0	8.2	54.0

Note: Emission level= Original Receiver Reading + Correct Factor
Correct Factor = Antenna Factor + Cable Loss -Amplifier gain

Conducted Spurious Emission Test Method:

According to KBD789033 D02

1.The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

2.For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e.99%bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS)and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

a)Set RBW between 1 and 5% of the occupied bandwidth (i.e.99%bandwidth)

b)Set VBW>3 RBW.

Limits:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e.99%bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection(DFS)and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the 5.725-5.85 GHz band: shall have e.i.r.p. of unwanted emissions comply with the following:

a)27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edge.

b)15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10dBm/MHz at 25 MHz above or below the band edge.

c)10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27dBm/MHz at 75 MHz above or below the band edge. and

d)-27 dBm/MHz at frequencies more than 75 MHz above or below the band edge.

Test Result: Pass

For test result and graphs please refer to Appendix C

11 Test Equipment List

List of Test Instruments Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
C	Spectrum analyzer	Rohde & Schwarz	FSV3044	487/642307	2025-3-13	2026-3-12
	Power Probe	Rohde & Schwarz	NRP-Z81	487/431819	2024-11-23	2025-11-22
	COAXIAL FIXED ATTENUATOR	HUBER&SUHNER	6610SMA-50-2-10dB/6GHz/2W	487/412511	Approved for use	Approved for use
	RF Test System	Rohde & Schwarz	TS8997	487/391835	2024-11-23	2025-11-22
	Coaxial Cable	Rohde & Schwarz	RF03	/	2024-7-27	2025-7-26
RE	EMI Test Receiver	Rohde & Schwarz	ESR7	487/632315	2025-3-13	2026-3-12
	Signal Analyzer	Rohde & Schwarz	FSV40	487/641405	2024-4-8	2025-4-7
					2025-3-31	2026-3-30
	Broadband Test Antenna	Schwarzbeck	VULB 9168	487/622345	2025-3-14	2026-3-13
	Horn Antenna	Rohde & Schwarz	3115PB	487/622346	2025-1-8	2026-1-7
	Pre-amplifier	Rohde & Schwarz	SCU-18F	487/402318	2025-3-13	2026-3-12
	Pre-amplifier	BONN	BLMA0118-1M	487/401411	2025-3-13	2026-3-12
	Pre-amplifier	AGILENT	83017A	487/400707	2025-3-13	2026-3-12
	Loop antenna	Rohde & Schwarz	HFH2-Z2	487/621128	2024-11-23	2025-11-22
	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C-PA	487/622347	2024-8-19	2025-8-18
	3m Semi anechoic chamber	TDK	9.2m×6.2m×6.2m	487/772307	2023-2-24	2026-2-23
	3m Fully anechoic chamber	TDK	9.2m×6.2m×6.2m	487/772304	2023-3-30	2026-3-29
	Coaxial Cable	Rohde & Schwarz	RF02	/	2024-7-27	2025-7-26
	EMI Test Receiver	Rohde & Schwarz	ESW8	487/631911	2025-3-13	2026-3-12
CE	LISN	Rohde & Schwarz	NSLK8127	487/601428	2024-9-2	2025-9-1

Measurement Software Information			
Test Item	Software	Manufacturer	Version
C	MTS 8310	MAXWELL	2.0.0.0
	Power Viewer	Rohde & Schwarz	V 11.0
RE	EMC 32	Rohde & Schwarz	V10.60.20
CE	EMC 32	Rohde & Schwarz	V10.60.20

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge

12 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.07dB
Uncertainty for Radiated Emission in 3m Semi anechoic chamber 9kHz-30MHz	4.38dB
Uncertainty for Radiated Emission in 3m Semi anechoic chamber 30MHz-1000MHz	Horizontal: 4.12dB Vertical: 4.30dB
Uncertainty for Radiated Emission in 3m Fully anechoic chamber 1000MHz-18000MHz	5.04dB
Uncertainty for Radiated Emission 18000MHz-40000MHz	5.42dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.32dB Frequency test involved:1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.



13 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



14 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----