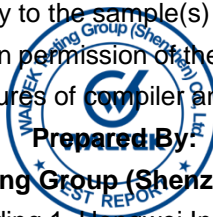


# TEST REPORT

**Reference No.**..... : WTH21X03021567W-1  
**FCC ID** ..... : 2AUZB-RAX1801  
**Applicant** ..... : SHENZHEN ZK TECHNOLOGY CO., LTD  
SHENZHEN CITY LONGGANG DISTRICT STREETS QINGLIN ROAD  
**Address**..... : SHENZHEN CITY STUDENTS (LONGGANG) BUSINESS PA... CHINA  
518172  
**Product Name** ..... : Wireless Router  
**Test Model.** ..... : RAX1801  
**Standards** ..... : FCC Part 15.407  
**Date of Receipt sample ....** : Mar. 18, 2021  
**Date of Test**..... : Mar. 18, 2021 to Mar. 24, 2021  
**Date of Issue** ..... : Mar. 24, 2021  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



**Waltek Testing Group (Shenzhen) Co., Ltd.**

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**Report version**

Version No.	Date of issue	Description
Rev.00	Mar. 24, 2021	Original
/	/	/

## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: SHENZHEN ZK TECHNOLOGY CO., LTD  
 Address of applicant: SHENZHEN CITY LONGGANG DISTRICT STREETS  
 QINGLIN ROAD SHENZHEN CITY STUDENTS  
 (LONGGANG) BUSINESS PA... CHINA 518172

Manufacturer: HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT  
 CO.,LTD.

Address of manufacturer: NO.2 Huitai Road,Huinan High-tech Industrial Park,Huiao  
 Avenue,Huizhou City,Guangdong Province,China

General Description of EUT	
Product Name:	Wireless Router
Trade Name:	HNK
Model No.:	RAX1801
Adding Model(s):	/
Rated Voltage:	DC12V
Battery Capacity:	/
Power Adapter:	MODEL: RD1201500-C55-153MG INPUT: AC100-240V, 50/60Hz, 0.6A OUTPUT: DC12V,1.5A
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n(HT20) , 802.11n-HT40, 802.11ax-HE20, 802.11ax-HE40, 802.11ac-VH80, 802.11ax-HE80
Frequency Range:	5150-5250MHz, 5725-5850MHz
RF Output Power:	5150-5250MHz: 19.61dBm (Conducted) 5725-5850MHz: 19.48dBm (Conducted)
Type of Modulation:	BPSK, QPSK,16QAM,64QAM, 256QAM, 1024QAM
Type of Antenna:	External Antenna
Antenna Gain:	5dBi

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.407**: General technical requirements.

**ANSI C63.10-2013**: American National Standard for Testing Unlicensed Wireless Devices.

**KDB789033 D02 v02r01**: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPARTE.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

### 1.4 Table for parameters of Test Software setting

Enter “3646631+=” into the calculator to enter the engineer mode, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Mode	Ant.	Test Frequency (MHz)												
		NCB: 20MHz												
		5180	5200	5240	5260	5300	5320	5500	5580	5700	5720	5745	5785	5825
802.11a 6Mbps	ANT 1	33	33	33	/	/	/	/	/	/	/	33	33	33
	ANT 2	33	33	33	/	/	/	/	/	/	/	33	33	33
802.11n-HT20 MCS0	ANT 1	33	33	33	/	/	/	/	/	/	/	33	33	33
	ANT 2	33	33	33	/	/	/	/	/	/	/	33	33	33
802.11ax-HE20 MCS0	ANT 1	33	33	33	/	/	/	/	/	/	/	33	33	33
	ANT 2	33	33	33	/	/	/	/	/	/	/	33	33	33
Mode	Ant.	NCB: 40MHz												
		5190	5230	5270	5310	5510	5550	5670	5710	5755	5795			
802.11n-HT40 MCS0	ANT 1	33	33	/	/	/	/	/	/	/	33	33		
	ANT 2	33	33	/	/	/	/	/	/	/	33	33		
802.11ax-HE40 MCS0	ANT 1	33	33	/	/	/	/	/	/	/	33	33		
	ANT 2	33	33	/	/	/	/	/	/	/	33	33		
Mode	Ant.	NCB: 80MHz												
		5210	5290	5530	5610	5690	5775							
802.11ac-VH80 MCS0	ANT 1	35	/	/	/	/	35							
	ANT 2	35	/	/	/	/	35							
802.11ax-VE80 MCS0	ANT 1	35	/	/	/	/	35							
	ANT 2	35	/	/	/	/	35							

## **1.5 EUT Operating during test**

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

## **1.6 Test Facility**

### **Address of the test laboratory**

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)

### **FCC – Registration No.: 125990**

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11a	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM3	802.11n-HT40	5190MHz,5230MHz, 5755MHz,5795MHz
TM4	802.11ax-HE20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM5	802.11ax-HE40	5190MHz,5230MHz, 5755MHz,5795MHz
TM6	802.11ac-VH80	5210MHz, 5775 MHz
TM7	802.11ax-HE80	5210MHz, 5775 MHz

Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1.5	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/



## 1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

**1.9 Test Equipment List and Details**

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2020-04-28	2021-04-27
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2020-04-28	2021-04-27
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2020-04-28	2021-04-27
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

<b>Software List</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Version</b>
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

\*Remark: indicates software version used in the compliance certification testing

## 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(6)	Conducted Emission	Compliant
§15.407(a)(1),(2)	Power Spectral Density	N/A
§15.407(e)	Emission Bandwidth and Occupied Bandwidth	N/A
§15.407(a)(1),(2)	Maximum Conducted Output Power	N/A
§15.407(b)(1),(2),(3),(4)	Undesirable emission	N/A
§15.205; §15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§15.407(g)	Frequency Stability	N/A
§15.407(h)	Dynamic Frequency Selection (DFS)	N/A

N/A: Not applicable

Note: Report is for C2PC only. The test data includes Conducted Emission and Spurious Radiation Emissions. Those not tested mark with N/A (not effected by the C2PC). Change the base band IC MT7915DAN to MT7905DAN, The new chip component is pin-for-pin compatible.

### **3. Antenna Requirement**

---

#### **3.1 Standard Applicable**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Evaluation Information**

This product has two External antennas, fulfill the requirement of this section.

## **4. Automatically Discontinue Transmission**

---

### **4.1 Standard Applicable**

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **4.2 Summary of Test Results**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

## 5. Radiated Spurious Emissions

---

### 5.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) 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.
- (2) 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.
- (3) 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.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) 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 §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.  
789033 D02 v02r01 General UNII Test Procedures New Rules v01

If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E*d)^2) / 30$$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

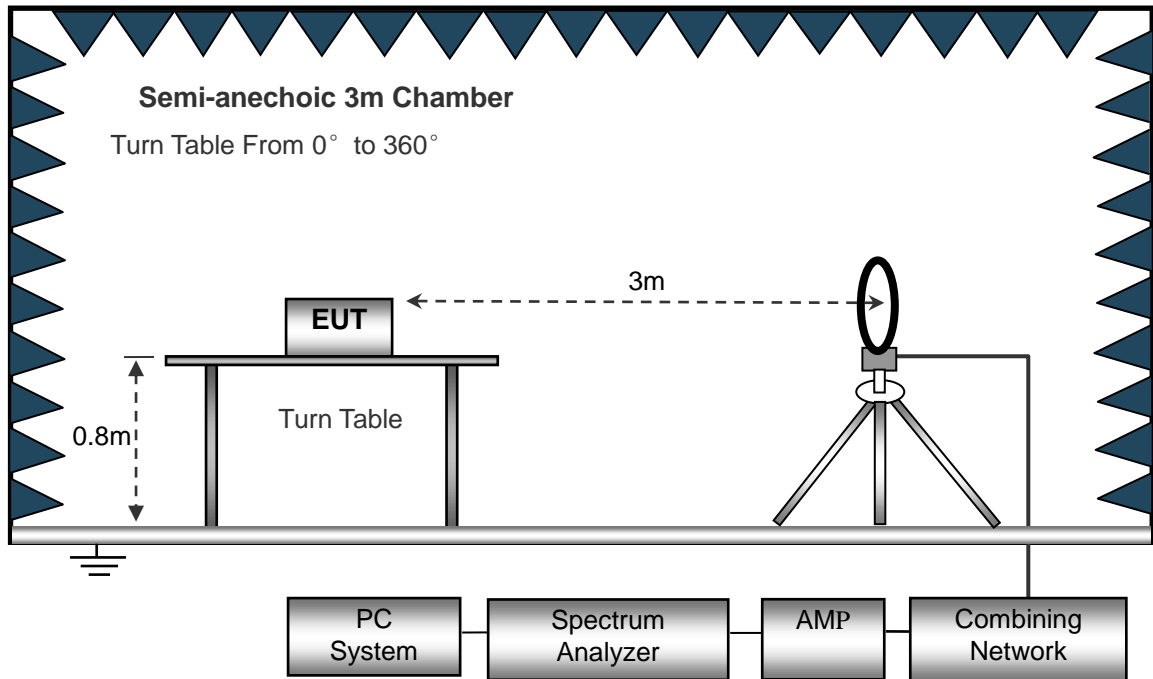
### 5.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

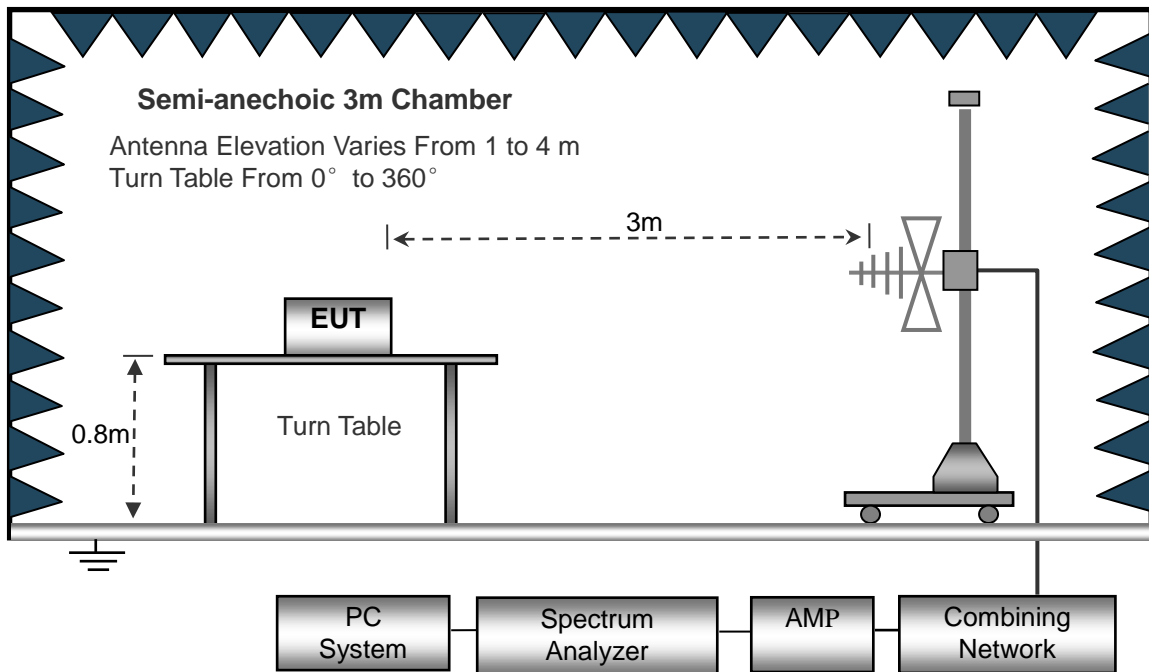
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The test setup for emission measurement below 30MHz..

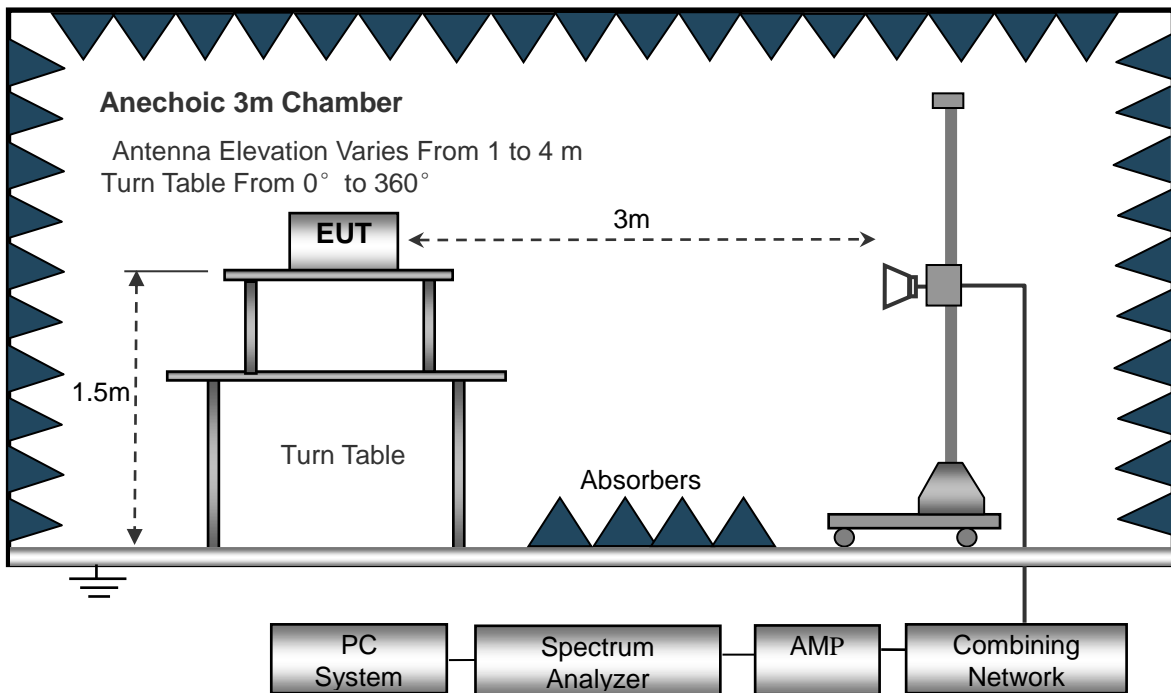


The test setup for emission measurement from 30 MHz to 1 GHz..





The test setup for emission measurement above 1 GHz..



### 5.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

### 5.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

## 5.5 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

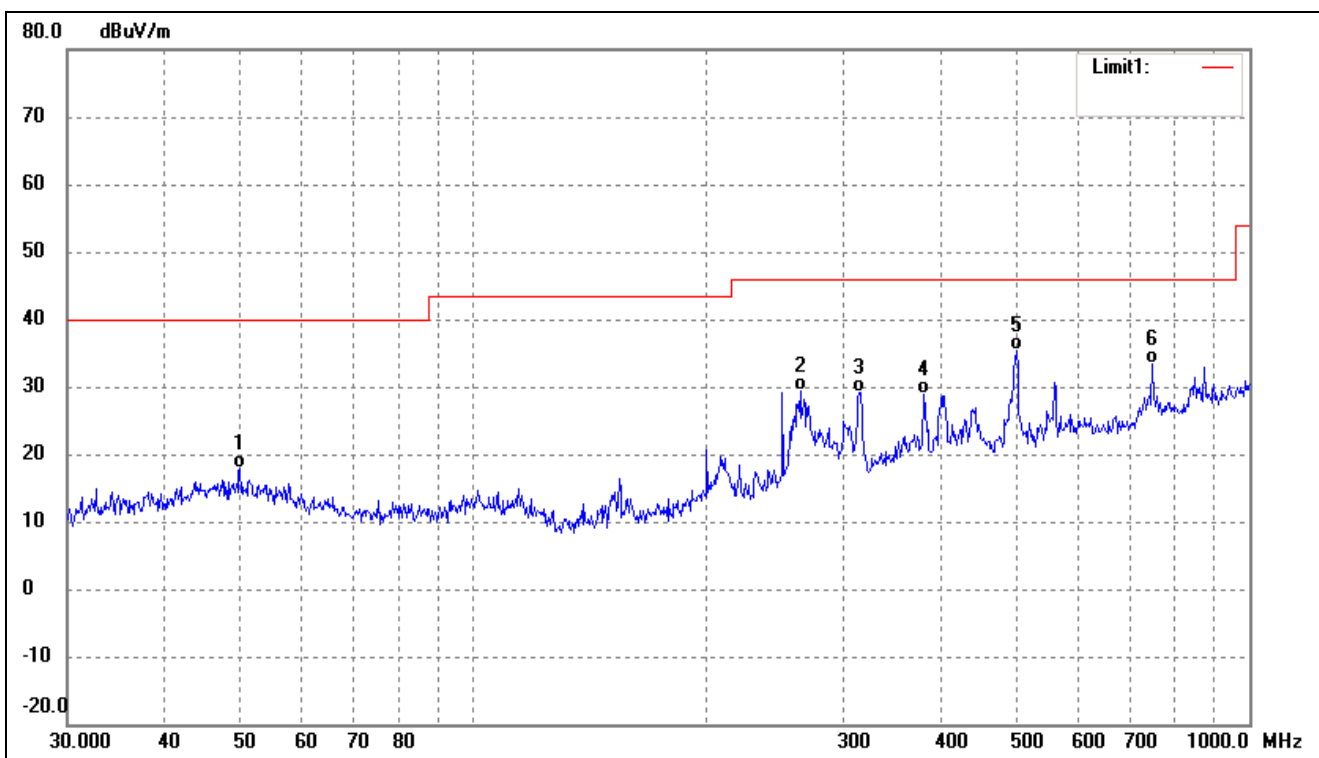
➤ Spurious Emission From 30 MHz to 1 GHz

➤ Antenna 1(Worst case)

➤ 5150-5250MHz

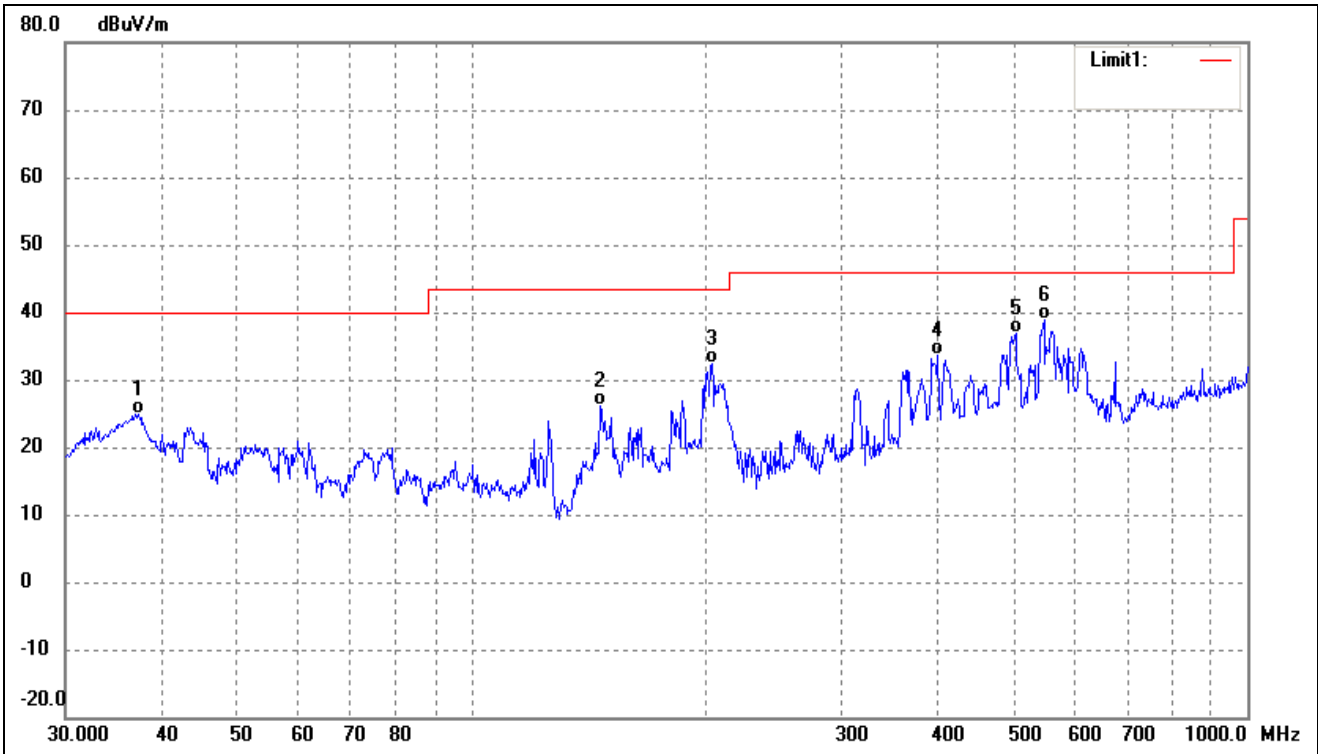
802.11a (Worst case)

Test Channel	5180MHz(Worst case)	Polarity:	Horizontal
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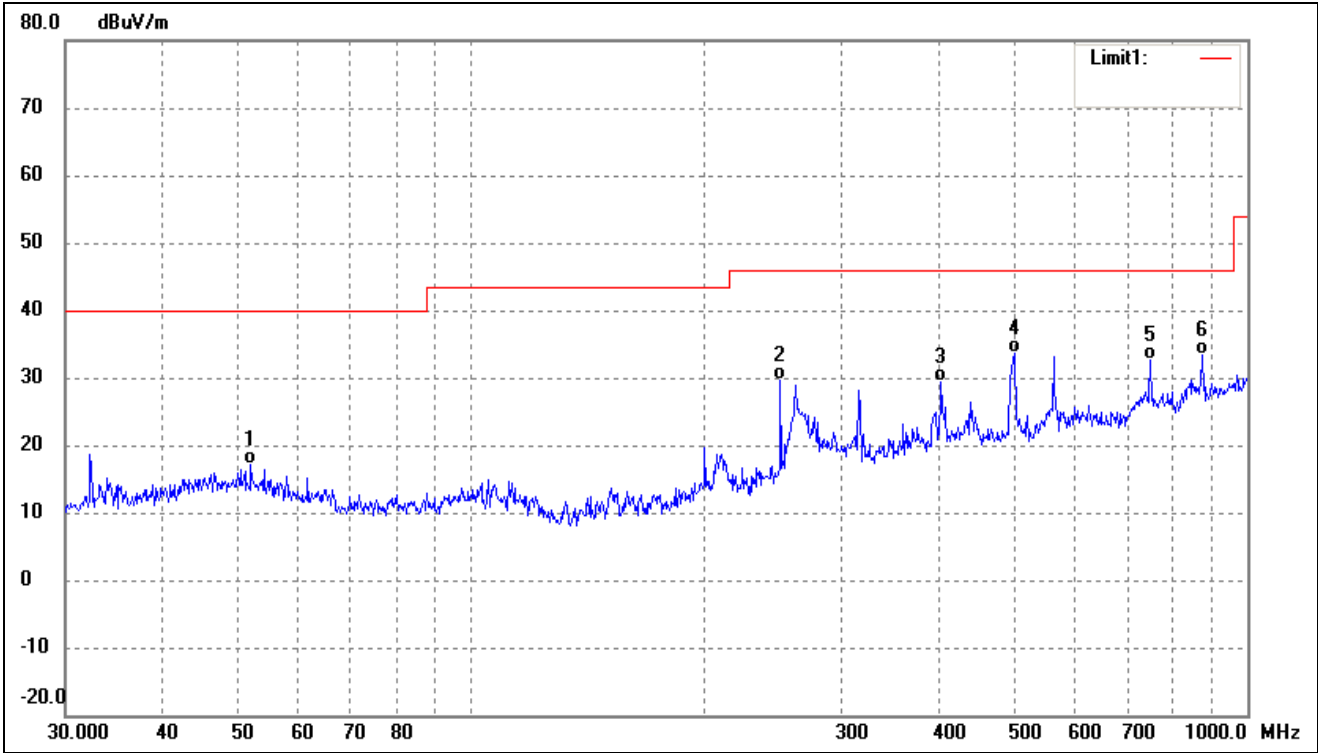
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	50.0566	27.97	-10.20	17.77	40.00	-22.23	-	-	QP
2	263.8190	38.34	-8.98	29.36	46.00	-16.64	-	-	QP
3	314.3765	36.42	-7.33	29.09	46.00	-16.91	-	-	QP
4	379.9141	34.63	-5.68	28.95	46.00	-17.05	-	-	QP
5	501.1790	39.95	-4.47	35.48	46.00	-10.52	-	-	QP
6	750.1083	34.26	-0.87	33.39	46.00	-12.61	-	-	QP

802.11a (Worst case)			
Test Channel	5180MHz(Worst case)	Polarity:	Vertical



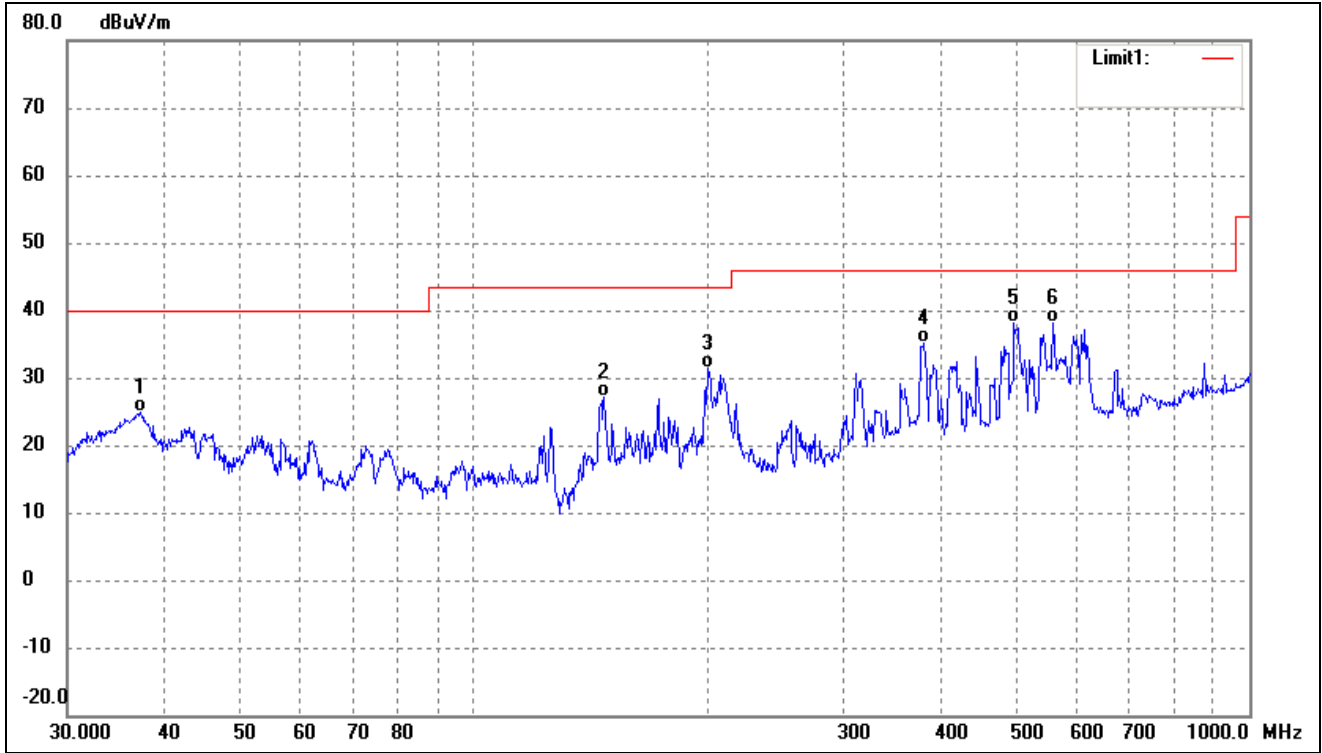
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.2855	37.16	-12.22	24.94	40.00	-15.06	-	-	QP
2	146.8877	40.82	-14.73	26.09	43.50	-17.41	-	-	QP
3	204.2377	43.56	-11.21	32.35	43.50	-11.15	-	-	QP
4	399.0302	39.36	-5.85	33.51	46.00	-12.49	-	-	QP
5	502.9395	41.42	-4.48	36.94	46.00	-9.06	-	-	QP
6	547.0977	42.65	-3.87	38.78	46.00	-7.22	-	-	QP

802.11a (Worst case)			
Test Channel	5200MHz(worst case)	Polarity:	Horizontal



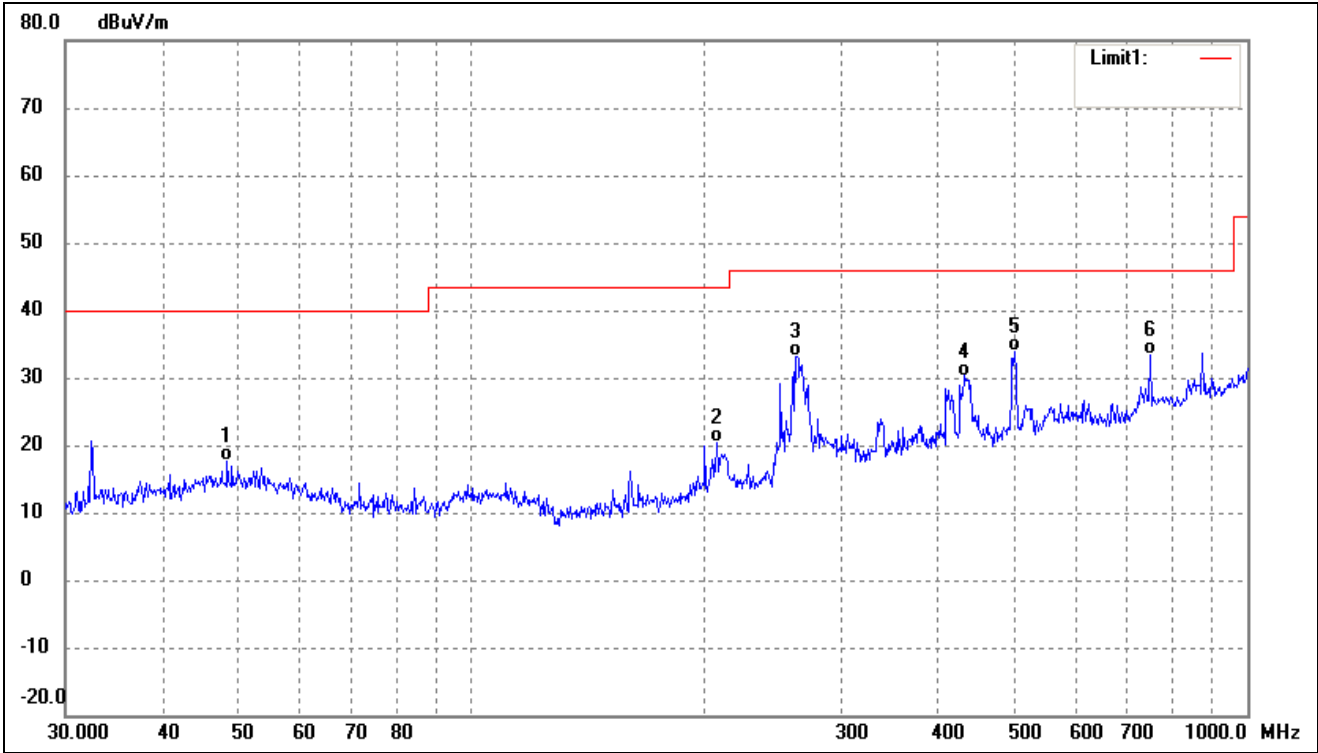
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	52.0251	27.70	-10.63	17.07	40.00	-22.93	-	-	QP
2	250.3012	38.94	-9.29	29.65	46.00	-16.35	-	-	QP
3	403.2500	35.04	-5.65	29.39	46.00	-16.61	-	-	QP
4	501.1790	38.08	-4.47	33.61	46.00	-12.39	-	-	QP
5	750.1083	33.52	-0.87	32.65	46.00	-13.35	-	-	QP
6	875.2470	32.39	1.08	33.47	46.00	-12.53	-	-	QP

802.11a (Worst case)			
Test Channel	5200MHz(worst case)	Polarity:	Vertical



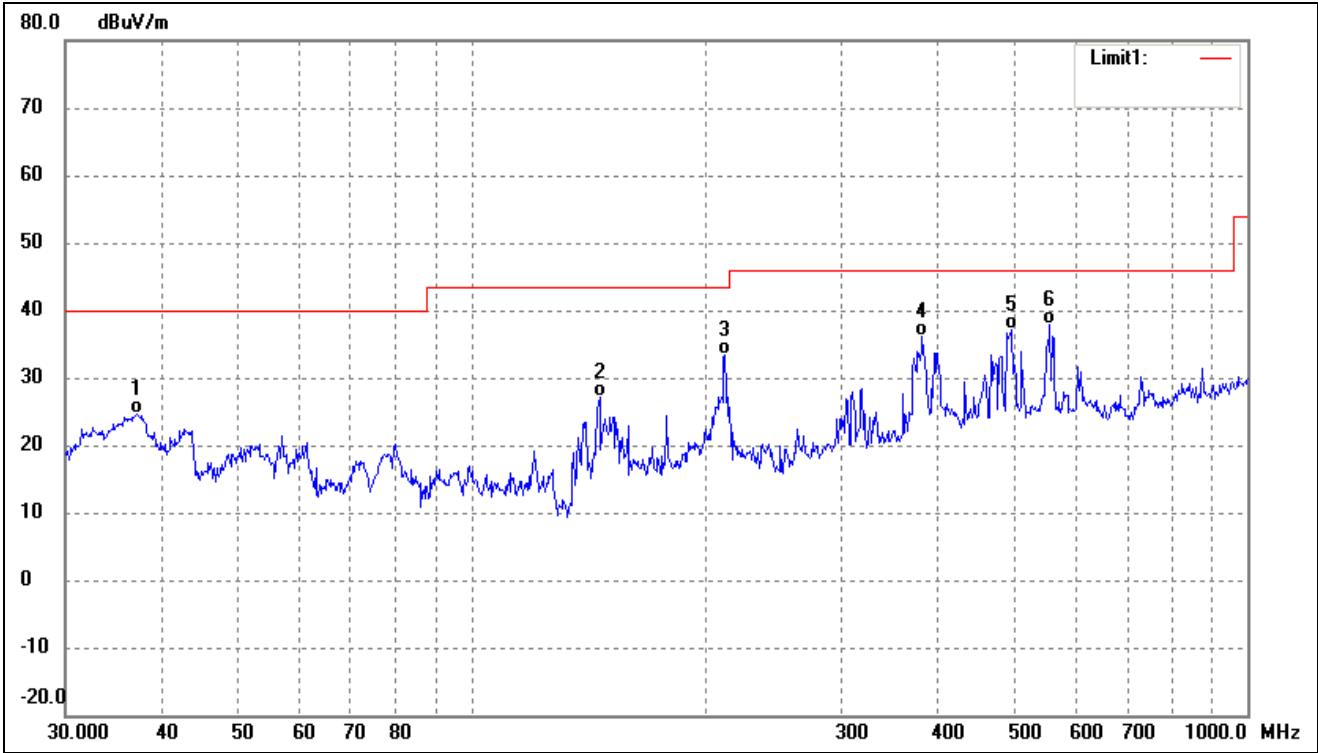
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.2855	37.18	-12.22	24.96	40.00	-15.04	-	-	QP
2	147.4036	41.78	-14.75	27.03	43.50	-16.47	-	-	QP
3	200.6881	42.73	-11.28	31.45	43.50	-12.05	-	-	QP
4	381.2487	40.91	-5.69	35.22	46.00	-10.78	-	-	QP
5	497.6765	42.53	-4.50	38.03	46.00	-7.97	-	-	QP
6	558.7302	41.45	-3.35	38.10	46.00	-7.90	-	-	QP

802.11a (Worst case)			
Test Channel	5240MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	48.5016	27.97	-10.30	17.67	40.00	-22.33	-	-	QP
2	207.1226	31.47	-11.15	20.32	43.50	-23.18	-	-	QP
3	261.9753	42.26	-9.01	33.25	46.00	-12.75	-	-	QP
4	432.5457	34.64	-4.39	30.25	46.00	-15.75	-	-	QP
5	501.1790	38.25	-4.47	33.78	46.00	-12.22	-	-	QP
6	750.1083	34.32	-0.87	33.45	46.00	-12.55	-	-	QP

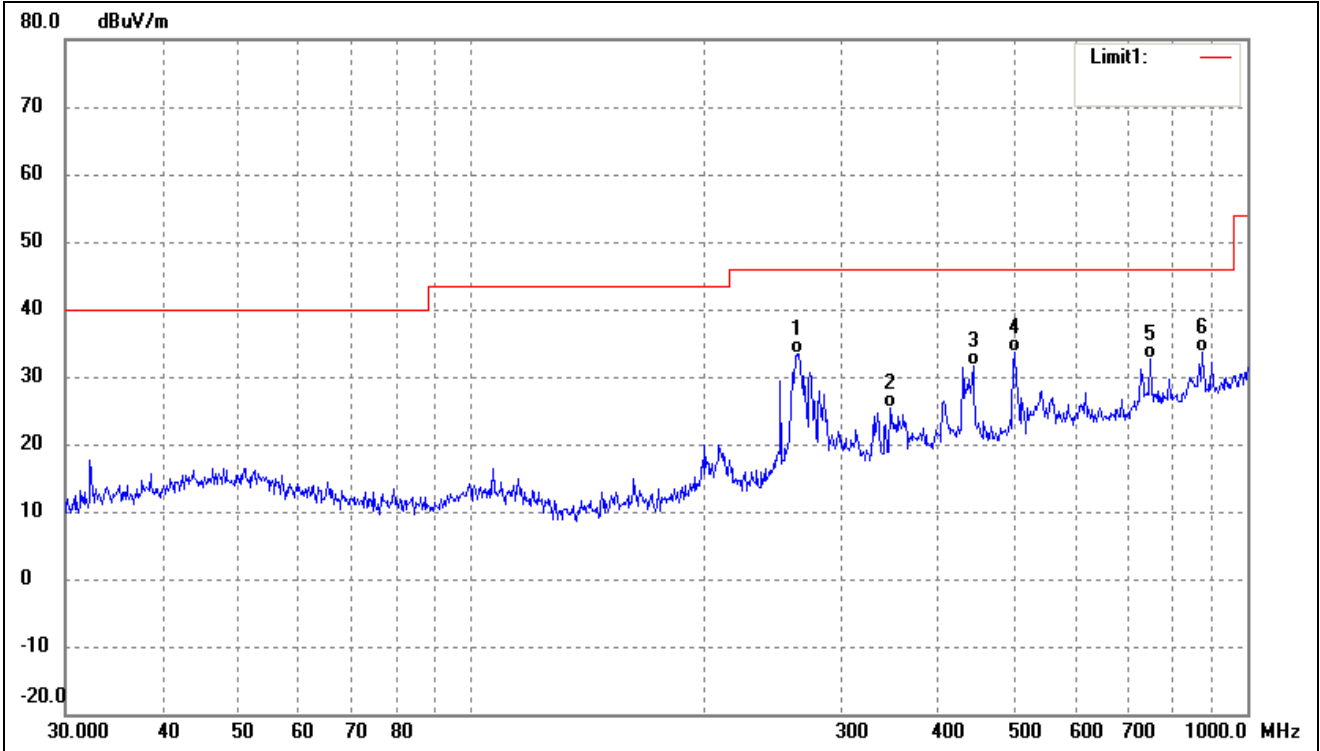
802.11a (Worst case)			
Test Channel	5240MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.0249	36.89	-12.27	24.62	40.00	-15.38	-	-	QP
2	146.3735	41.74	-14.71	27.03	43.50	-16.47	-	-	QP
3	212.2695	44.44	-11.03	33.41	43.50	-10.09	-	-	QP
4	381.2487	41.85	-5.69	36.16	46.00	-9.84	-	-	QP
5	497.6765	41.72	-4.50	37.22	46.00	-8.78	-	-	QP
6	556.7744	41.34	-3.46	37.88	46.00	-8.12	-	-	QP

➤ 5725-5850MHz

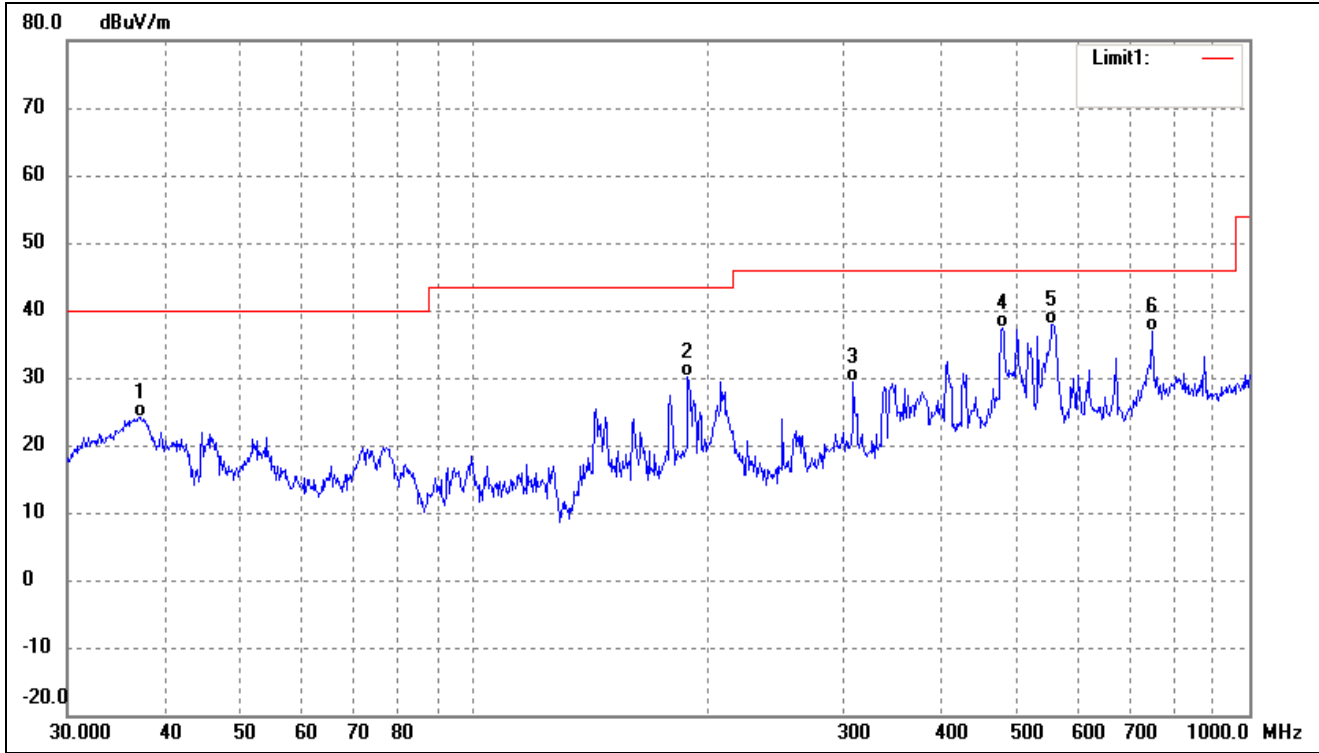
802.11a (Worst case)			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	262.8955	42.47	-8.99	33.48	46.00	-12.52	-	-	QP
2	346.8092	31.67	-6.31	25.36	46.00	-20.64	-	-	QP
3	443.2943	36.10	-4.46	31.64	46.00	-14.36	-	-	QP
4	501.1790	38.12	-4.47	33.65	46.00	-12.35	-	-	QP
5	750.1083	33.39	-0.87	32.52	46.00	-13.48	-	-	QP
6	875.2470	32.64	1.08	33.72	46.00	-12.28	-	-	QP

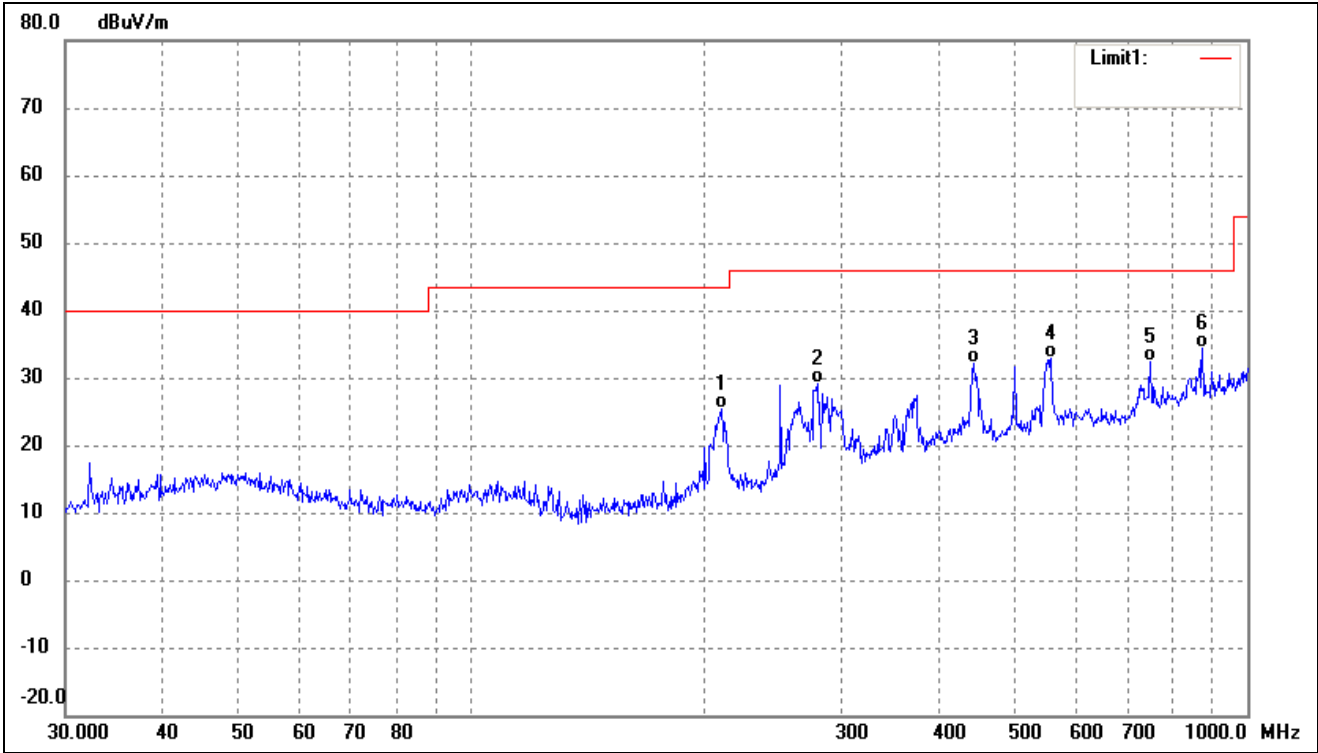


802.11a (Worst case)			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



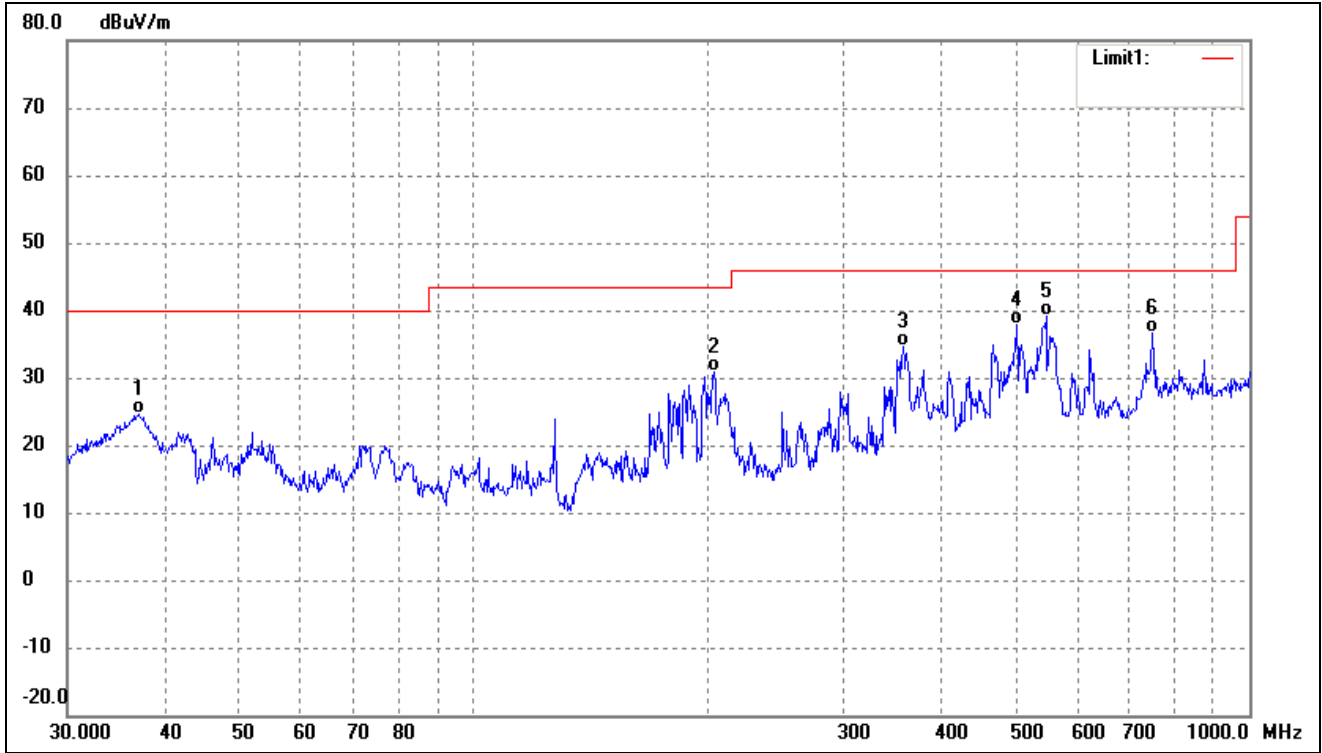
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.2855	36.43	-12.22	24.21	40.00	-15.79	-	-	QP
2	189.0743	42.23	-12.18	30.05	43.50	-13.45	-	-	QP
3	308.9126	36.63	-7.29	29.34	46.00	-16.66	-	-	QP
4	480.5276	42.01	-4.72	37.29	46.00	-8.71	-	-	QP
5	556.7744	41.30	-3.46	37.84	46.00	-8.16	-	-	QP
6	750.1083	37.67	-0.87	36.80	46.00	-9.20	-	-	QP

802.11a (Worst case)			
Test Channel	5785MHz(worst case)	Polarity:	Horizontal



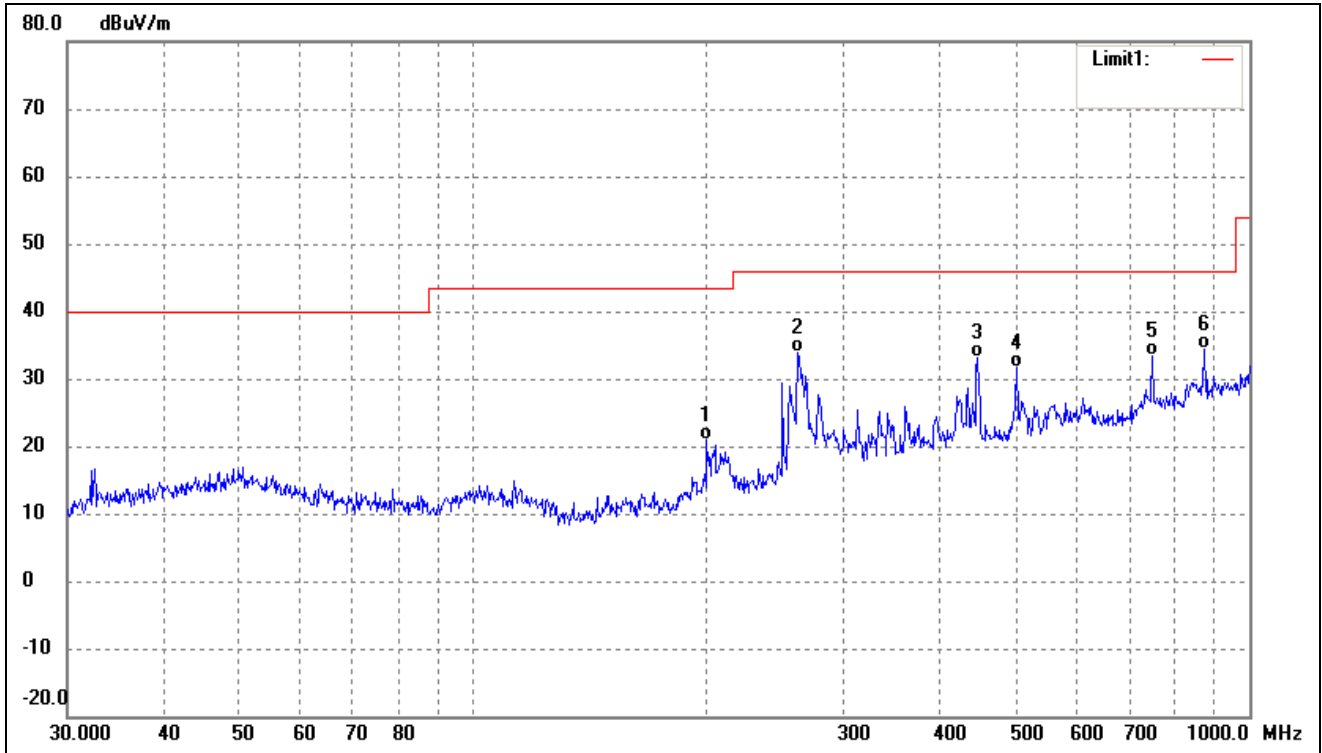
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	210.0482	36.39	-11.08	25.31	43.50	-18.19	-	-	QP
2	279.0436	37.50	-8.47	29.03	46.00	-16.97	-	-	QP
3	444.8514	36.58	-4.49	32.09	46.00	-13.91	-	-	QP
4	558.7302	36.34	-3.35	32.99	46.00	-13.01	-	-	QP
5	750.1083	33.28	-0.87	32.41	46.00	-13.59	-	-	QP
6	875.2470	33.37	1.08	34.45	46.00	-11.55	-	-	QP

802.11a (Worst case)			
Test Channel	5785MHz(worst case)	Polarity:	Vertical



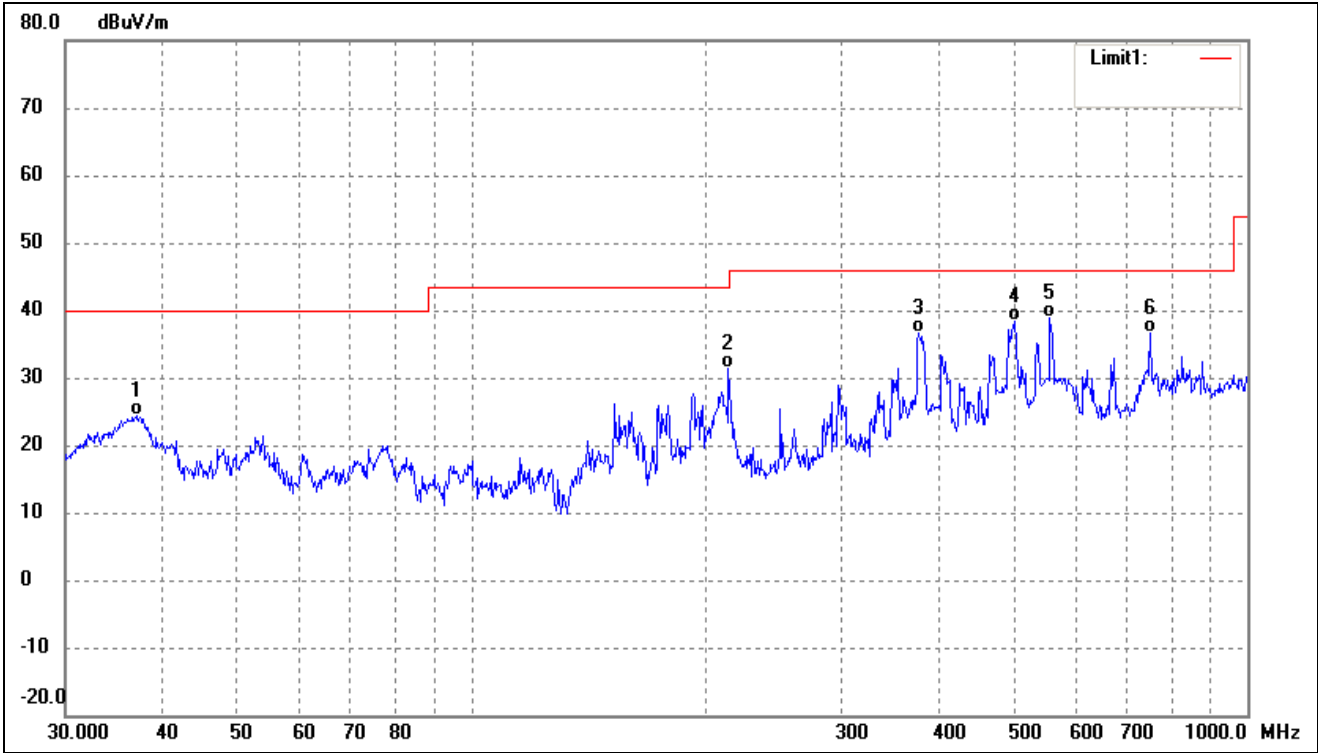
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.1550	36.84	-12.25	24.59	40.00	-15.41	-	-	QP
2	204.2377	41.99	-11.21	30.78	43.50	-12.72	-	-	QP
3	357.9287	40.56	-6.00	34.56	46.00	-11.44	-	-	QP
4	501.1790	42.38	-4.47	37.91	46.00	-8.09	-	-	QP
5	547.0977	42.94	-3.87	39.07	46.00	-6.93	-	-	QP
6	750.1083	37.59	-0.87	36.72	46.00	-9.28	-	-	QP

802.11a (Worst case)			
Test Channel	5825MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	199.9856	32.22	-11.30	20.92	43.50	-22.58	-	-	QP
2	261.9753	42.96	-9.01	33.95	46.00	-12.05	-	-	QP
3	446.4141	37.60	-4.52	33.08	46.00	-12.92	-	-	QP
4	501.1790	36.05	-4.47	31.58	46.00	-14.42	-	-	QP
5	750.1083	34.17	-0.87	33.30	46.00	-12.70	-	-	QP
6	875.2470	33.21	1.08	34.29	46.00	-11.71	-	-	QP

802.11a (Worst case)			
Test Channel	5825MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	37.0249	36.53	-12.27	24.26	40.00	-15.74	-	-	QP
2	214.5143	42.43	-10.98	31.45	43.50	-12.05	-	-	QP
3	377.2591	42.42	-5.69	36.73	46.00	-9.27	-	-	QP
4	501.1790	42.75	-4.47	38.28	46.00	-7.72	-	-	QP
5	556.7744	42.36	-3.46	38.90	46.00	-7.10	-	-	QP
6	750.1083	37.57	-0.87	36.70	46.00	-9.30	-	-	QP

Remark: '-'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Antenna 1(Worse case)
- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11a)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	56.62	7.11	63.73	74	-10.27	H	PK
15540	33.73	8.22	41.95	54	-12.05	H	AV
10360	57.23	7.11	64.34	74	-9.66	V	PK
15540	40.24	8.22	48.46	54	-5.54	V	AV
Middle Channel (5200MHz)							
10400	56.73	7.22	63.95	74	-10.05	H	PK
15600	35.88	8.67	44.55	54	-9.45	H	AV
10400	55.27	7.22	62.49	74	-11.51	V	PK
15600	39.46	8.67	48.13	54	-5.87	V	AV
High Channel (5240MHz)							
10480	54.15	7.69	61.84	74	-12.16	H	PK
15720	39.08	8.93	48.01	54	-5.99	H	AV
10480	57.56	7.69	65.25	74	-8.75	V	PK
15720	36.85	8.93	45.78	54	-8.22	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	55.79	9.45	65.24	74	-8.76	H	PK
17235	33.72	10.36	44.08	54	-9.92	H	AV
11490	53.80	9.45	63.25	74	-10.75	V	PK
17235	36.18	10.36	46.54	54	-7.46	V	AV
Middle Channel (5785MHz)							
11570	57.74	9.62	67.36	74	-6.64	H	PK
17355	35.07	10.67	45.74	54	-8.26	H	AV
11570	56.69	9.62	66.31	74	-7.69	V	PK
17355	34.30	10.67	44.97	54	-9.03	V	AV
High Channel (5825MHz)							
11650	57.29	9.84	67.13	74	-6.87	H	PK
17475	33.58	10.95	44.53	54	-9.47	H	AV
11650	52.73	9.84	62.57	74	-11.43	V	PK
17475	35.27	10.95	46.22	54	-7.78	V	AV

## ➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.04	-27
Highest	Above 5350	-44.02	-27
Note: the data just list the worst cases			

## ➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-39.23	-27
	5715 to 5725	-42.07	-17
Highest	5850 to 5860	-41.52	-17
	Above 5860	-42.17	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz5.725-5.850GHz (802.11n HT20)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	55.05	7.11	62.16	74	-11.84	H	PK
15540	37.85	8.22	46.07	54	-7.93	H	AV
10360	59.17	7.11	66.28	74	-7.72	V	PK
15540	37.40	8.22	45.62	54	-8.38	V	AV
Middle Channel (5200MHz)							
10400	58.22	7.22	65.44	74	-8.56	H	PK
15600	38.15	8.67	46.82	54	-7.18	H	AV
10400	57.91	7.22	65.13	74	-8.87	V	PK
15600	36.46	8.67	45.13	54	-8.87	V	AV
High Channel (5240MHz)							
10480	56.20	7.69	63.89	74	-10.11	H	PK
15720	36.75	8.93	45.68	54	-8.32	H	AV
10480	59.14	7.69	66.83	74	-7.17	V	PK
15720	38.55	8.93	47.48	54	-6.52	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	56.50	9.45	65.95	74	-8.05	H	PK
17235	34.86	10.36	45.22	54	-8.78	H	AV
11490	56.95	9.45	66.40	74	-7.60	V	PK
17235	35.66	10.36	46.02	54	-7.98	V	AV
Middle Channel (5785MHz)							
11570	58.74	9.62	68.36	74	-5.64	H	PK
17355	36.92	10.67	47.59	54	-6.41	H	AV
11570	55.28	9.62	64.90	74	-9.10	V	PK
17355	36.57	10.67	47.24	54	-6.76	V	AV
High Channel (5825MHz)							
11650	55.93	9.84	65.77	74	-8.23	H	PK
17475	35.47	10.95	46.42	54	-7.58	H	AV
11650	57.42	9.84	67.26	74	-6.74	V	PK
17475	37.05	10.95	48.00	54	-6.00	V	AV



## ➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-29.77	-27
Highest	Above 5350	-39.14	-27
Note: the data just list the worst cases			

## ➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-45.29	-27
	5715 to 5725	-33.44	-17
Highest	5850 to 5860	-40.56	-17
	Above 5860	-41.72	-27
Note: the data just list the worst cases			

*Note: this EUT was tested in the low, high channel and the worst case position data was reported.*

- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11ax HE20)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	53.68	7.11	60.79	74	-13.21	H	PK
15540	37.51	8.22	45.73	54	-8.27	H	AV
10360	55.87	7.11	62.98	74	-11.02	V	PK
15540	38.30	8.22	46.52	54	-7.48	V	AV
Middle Channel (5200MHz)							
10400	58.85	7.22	66.07	74	-7.93	H	PK
15600	36.61	8.67	45.28	54	-8.72	H	AV
10400	58.96	7.22	66.18	74	-7.82	V	PK
15600	35.07	8.67	43.74	54	-10.26	V	AV
High Channel (5240MHz)							
10480	54.46	7.69	62.15	74	-11.85	H	PK
15720	37.10	8.93	46.03	54	-7.97	H	AV
10480	60.15	7.69	67.84	74	-6.16	V	PK
15720	37.19	8.93	46.12	54	-7.88	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	58.87	9.45	68.32	74	-5.68	H	PK
17235	36.17	10.36	46.53	54	-7.47	H	AV
11490	54.78	9.45	64.23	74	-9.77	V	PK
17235	34.64	10.36	45.00	54	-9.00	V	AV
Middle Channel (5785MHz)							
11570	54.62	9.62	64.24	74	-9.76	H	PK
17355	35.00	10.67	45.67	54	-8.33	H	AV
11570	56.13	9.62	65.75	74	-8.25	V	PK
17355	34.61	10.67	45.28	54	-8.72	V	AV
High Channel (5825MHz)							
11650	55.81	9.84	65.65	74	-8.35	H	PK
17475	34.85	10.95	45.80	54	-8.20	H	AV
11650	56.22	9.84	66.06	74	-7.94	V	PK
17475	35.44	10.95	46.39	54	-7.61	V	AV

## ➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-32.77	-27
Highest	Above 5350	-39.85	-27
Note: the data just list the worst cases			

## ➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-45.17	-27
	5715 to 5725	-33.58	-17
Highest	5850 to 5860	-33.51	-17
	Above 5860	-43.21	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11n HT40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	58.54	7.25	65.79	74	-8.21	H	PK
15570	36.28	8.33	44.61	54	-9.39	H	AV
10380	59.61	7.25	66.86	74	-7.14	V	PK
15570	38.54	8.33	46.87	54	-7.13	V	AV
High Channel (5230MHz)							
10460	57.06	7.54	64.60	74	-9.40	H	PK
15690	40.35	8.86	49.21	54	-4.79	H	AV
10460	56.72	7.54	64.26	74	-9.74	V	PK
15690	40.03	8.86	48.89	54	-5.11	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	55.42	9.65	65.07	74	-8.93	H	PK
17265	36.17	10.87	47.04	54	-6.96	H	AV
11510	56.41	9.65	66.06	74	-7.94	V	PK
17265	37.21	10.87	48.08	54	-5.92	V	AV
High Channel (5795MHz)							
11590	55.13	9.81	64.94	74	-9.06	H	PK
17385	33.85	10.89	44.74	54	-9.26	H	AV
11590	57.73	9.81	67.54	74	-6.46	V	PK
17385	36.08	10.89	46.97	54	-7.03	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.60	-27
Highest	Above 5350	-42.11	-27

Note: the data just list the worst cases

## ➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-40.23	-27
	5715 to 5725	-40.78	-17
Highest	5850 to 5860	-43.90	-17
	Above 5860	-44.48	-27

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11ax HT40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	57.55	7.25	64.80	74	-9.20	H	PK
15570	36.33	8.33	44.66	54	-9.34	H	AV
10380	59.41	7.25	66.66	74	-7.34	V	PK
15570	36.74	8.33	45.07	54	-8.93	V	AV
High Channel (5230MHz)							
10460	57.41	7.54	64.95	74	-9.05	H	PK
15690	39.90	8.86	48.76	54	-5.24	H	AV
10460	58.49	7.54	66.03	74	-7.97	V	PK
15690	38.33	8.86	47.19	54	-6.81	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	54.81	9.65	64.46	74	-9.54	H	PK
17265	34.30	10.87	45.17	54	-8.83	H	AV
11510	55.64	9.65	65.29	74	-8.71	V	PK
17265	36.47	10.87	47.34	54	-6.66	V	AV
High Channel (5795MHz)							
11590	56.96	9.81	66.77	74	-7.23	H	PK
17385	34.44	10.89	45.33	54	-8.67	H	AV
11590	56.67	9.81	66.48	74	-7.52	V	PK
17385	36.14	10.89	47.03	54	-6.97	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.35	-27
Highest	Above 5350	-40.21	-27

Note: the data just list the worst cases

## ➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-40.40	-27
	5715 to 5725	-37.07	-17
Highest	5850 to 5860	-41.82	-17
	Above 5860	-44.34	-27

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11ac VH80)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5210MHz							
10420	58.48	7.33	65.81	74	-8.19	H	PK
15630	37.72	8.75	46.47	54	-7.53	H	AV
10420	56.35	7.33	63.68	74	-10.32	V	PK
15630	38.37	8.75	47.12	54	-6.88	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5775MHz							
11550	54.06	9.54	63.60	74	-10.40	H	PK
17325	37.63	10.59	48.22	54	-5.78	H	AV
11550	56.61	9.54	66.15	74	-7.85	V	PK
17325	32.12	10.59	42.71	54	-11.29	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-35.33	-27
Highest	Above 5350	-31.96	-27

Note: the data just list the worst cases

- Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-45.19	-27
	5715 to 5725	-31.83	-17
Highest	5850 to 5860	-30.68	-17
	Above 5860	-37.75	-27

Note: the data just list the worst cases



- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz(802.11ax HE80)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5210MHz							
10420	58.52	7.33	65.85	74	-8.15	H	PK
15630	36.15	8.75	44.90	54	-9.10	H	AV
10420	55.89	7.33	63.22	74	-10.78	V	PK
15630	36.20	8.75	44.95	54	-9.05	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5775MHz							
11550	54.48	9.54	64.02	74	-9.98	H	PK
17325	36.14	10.59	46.73	54	-7.27	H	AV
11550	56.84	9.54	66.38	74	-7.62	V	PK
17325	33.63	10.59	44.22	54	-9.78	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-34.51	-27
Highest	Above 5350	-30.11	-27

Note: the data just list the worst cases

- Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-41.29	-27
	5715 to 5725	-29.71	-17
Highest	5850 to 5860	-30.46	-17
	Above 5860	-41.31	-27

Note: the data just list the worst cases

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

## 6. Conducted Emissions

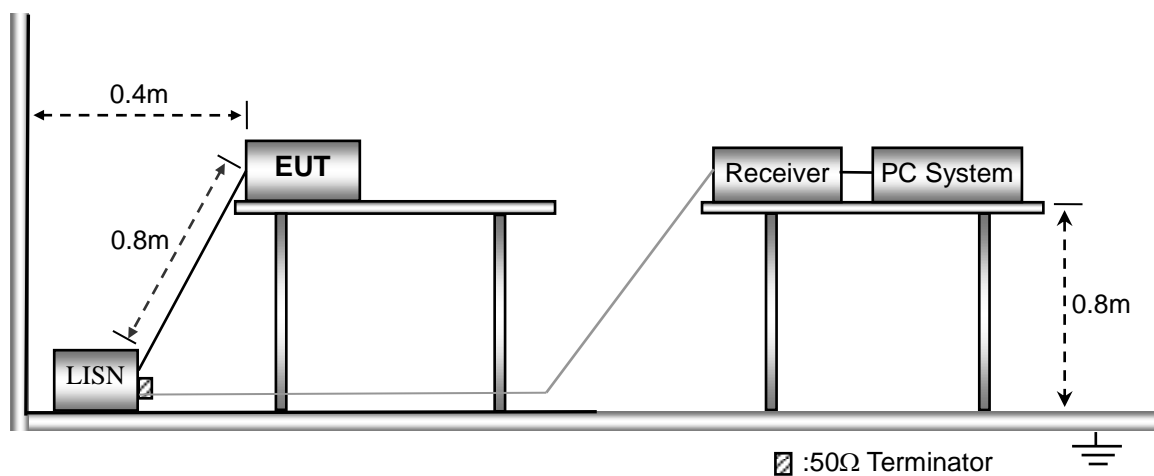
### 6.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

### 6.2 Basic Test Setup Block Diagram



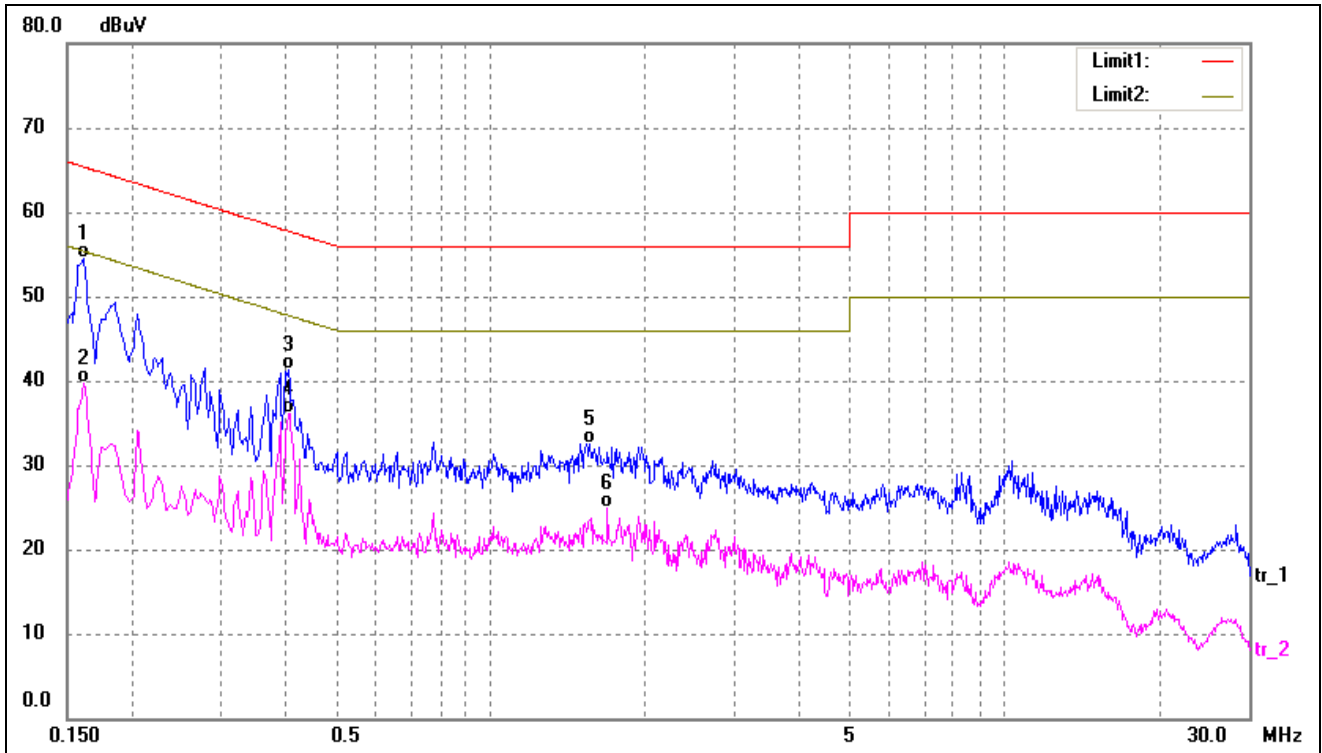
### 6.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency .....	150 kHz
Stop Frequency .....	30 MHz
Sweep Speed .....	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth .....	9 kHz
Quasi-Peak Adapter Mode .....	Normal

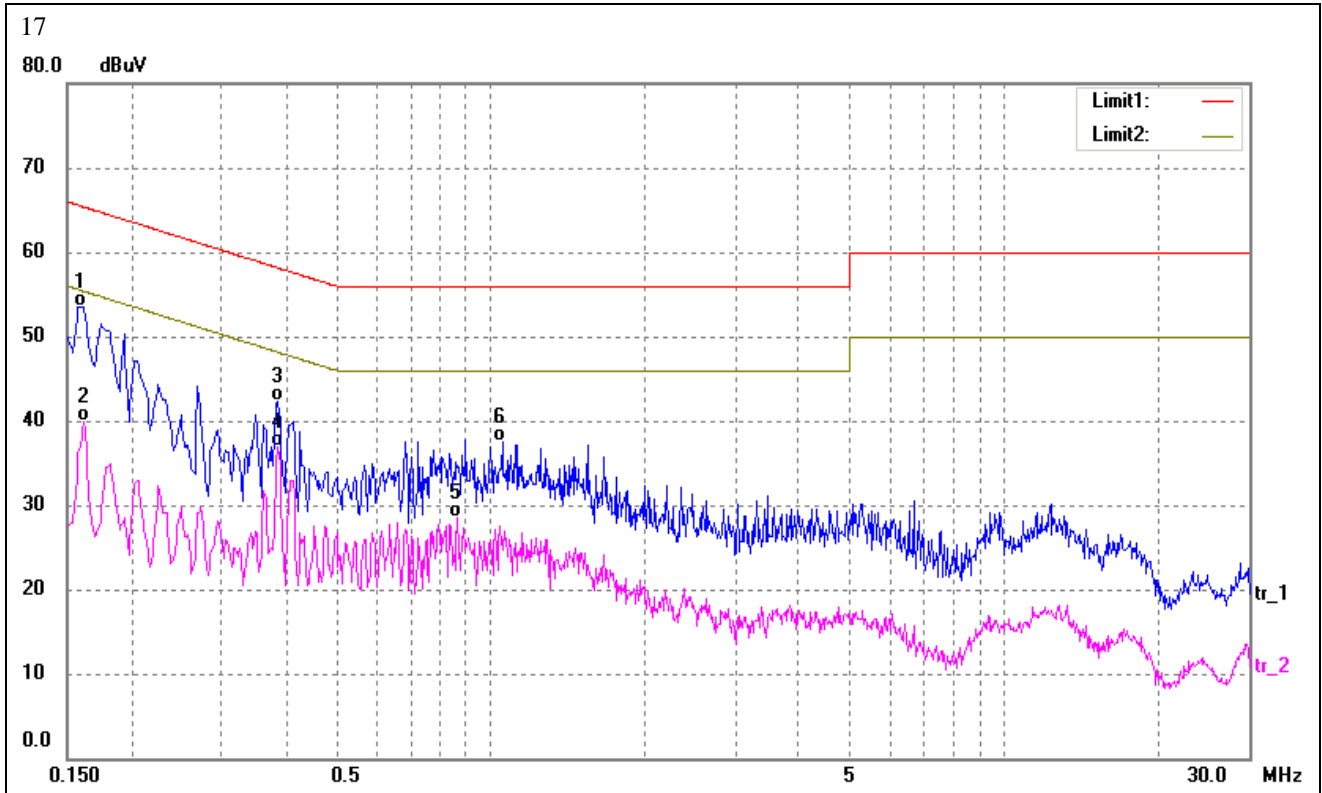
### 6.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1620	44.22	10.26	54.48	65.36	-10.88	QP
2	0.1620	29.52	10.26	39.78	55.36	-15.58	AVG
3	0.4060	31.03	10.23	41.26	57.73	-16.47	QP
4	0.4060	25.85	10.23	36.08	47.73	-11.65	AVG
5	1.5620	22.35	10.24	32.59	56.00	-23.41	QP
6	1.6940	14.72	10.26	24.98	46.00	-21.02	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	43.30	10.25	53.55	65.57	-12.02	QP
2	0.1620	29.68	10.26	39.94	55.36	-15.42	AVG
3	0.3860	32.06	10.23	42.29	58.15	-15.86	QP
4*	0.3860	26.61	10.23	36.84	48.15	-11.31	AVG
5	0.8620	18.36	10.21	28.57	46.00	-17.43	AVG
6	1.0580	27.23	10.21	37.44	56.00	-18.56	QP

## **APPENDIX PHOTOGRAPHS**

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**Please refer to “ANNEX”**

**\*\*\*\*\* END OF REPORT \*\*\*\*\***