



# CTC Laboratories, Inc.

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## TEST REPORT

**Report No.**.....: **CTC20211466E04**

**FCC ID**.....: **WNA-LK02**

**Applicant**.....: **Shenzhen Skyworth Digital Technology Co.,LTD**

Address.....: Unit A 14/F, Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China

Manufacturer.....: Shenzhen Skyworth Digital Technology Co.,LTD

Address.....: Unit A 14/F, Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China

**Product Name** .....: **DIRECTV 4K RECEIVER**

Trade Mark.....: DIRECTV

Model/Type reference .....: LK02

Listed Model(s) .....: HYS001, HYS0A, LK02-O-800, LK02-A-800, LK02-T-800, LK02-C-800

**Standard**.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.407**

Date of receipt of test sample...: Aug. 31, 2021

Date of testing.....: Sep. 01, 2021 to Sep. 19, 2021

Date of issue.....: Sep. 22, 2021

**Result**.....: **PASS**

Compiled by:  
(Printed name+signature)                      Jim Jiang                      *Jim Jiang*

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Supervised by:  
(Printed name+signature)                      Miller Ma                      *Miller Ma*

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Approved by:  
(Printed name+signature)                      Walter Chen                      *Walter Chen*

**Testing Laboratory Name**.....: **CTC Laboratories, Inc.**

Address.....: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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# 1. TEST SUMMARY

## 1.1. Test Standards

The tests were performed according to following standards:

[FCC Part 15, Subpart E\(15.407\)](#) — for 802.11a/n/ac, the test procedure follows the FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

[RSS-247 Issue 2 February 2017](#) — Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

[RSS-Gen](#) — General Requirements for Compliance of Radio Apparatus

## 1.2. Report Version

Revised No.	Date of issue	Description
01	Sep. 22, 2021	Original

## 1.3. Test Description

FCC Part 15 Subpart E (15.407) / RSS-247 Issue 2 February 2017				
Test Item	Test require		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Jim Jiang
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jim Jiang
Band Edge Emissions	15.407(b)	RSS-247 6.2.1.2 RSS-247 6.2.2.2 RSS-247 6.2.4.2	Pass	Jim Jiang
26dB Bandwidth & 99% Bandwidth	15.407(a) (5)	RSS-247 6.2.1.2	Pass	Jim Jiang
6dB Bandwidth (only for UNII-3)	15.407(e)	RSS-247 6.2.4.1	Pass	Jim Jiang
Peak Output Power	15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.4.1	Pass	Jim Jiang
Power Spectral Density	15.407(a)	RSS-247 6.2	Pass	Jim Jiang
Transmitter Radiated Spurious Emission	15.407(b) &15.209	RSS-Gen 8.9 RSS-247 6.2.1.2 RSS-247 6.2.4.2	Pass	Jim Jiang
Frequency Stability	15.407(g)	/	Pass	Jim Jiang
Dynamic Frequency Selection (DFS)	15.407(h)	RSS-247 6.3	Pass	Jim Jiang
Automatically DiscontinueTransmission	15.407(c)	/	Pass	Note(2)

Note:

1. The measurement uncertainty is not included in the test result.

2. During no any information transmission, 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.

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## 1.4. Test Facility

### CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

### Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

#### FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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. Registration 951311, Aug 26, 2017.

## 1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 1.6. Environmental Conditions

<b>Normal Condition</b>	Temperature	21°C~27°C
	Relative Humidity	40%~60%
	Atmospheric Pressure	101kPa
	Voltage	The equipment shall be the nominal voltage for which the equipment was designed.
<b>Extreme Condition</b>	Temperature	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer.
	Voltage	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer

<b>Normal Condition</b>	T <sub>N</sub> =Normal Temperature	21°C~27°C
<b>Extreme Condition</b>	T <sub>L</sub> =Lower Temperature	-25 °C
	T <sub>H</sub> =Higher Temperature	45 °C



## 2. GENERAL INFORMATION

### 2.1. Client Information

Applicant:	Shenzhen Skyworth Digital Technology Co.,LTD
Address:	Unit A 14/F, Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Skyworth Digital Technology Co.,LTD
Address:	Unit A 14/F, Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Factory:	Shenzhen Skyworth Digital Technology Co.,LTD. Baoan Branch Factory
Address:	2-5F, Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China

### 2.2. General Description of EUT

Product Name:	DIRECTV 4K RECEIVER
Trade Mark:	DIRECTV
Model/Type reference:	LK02
Listed Model(s):	HYS001, HYS0A, LK02-O-800, LK02-A-800, LK02-T-800, LK02-C-800
Model Differences:	All these models are identical in the same PCB, layout and electrical circuit. The difference is the model number.
Power supply:	12Vdc/1.75A from AC/DC Adapter
Adapter Model:	BY-SKY120175U10L (SHENZHEN TOPOW ELECTRONICS CO.,LTD) Input: 100-240V~ 50/60Hz 0.7A Output: 12Vdc/1.75A
Hardware version:	1302
Software version:	/



Technical index for 5G WIFI					
Operation Band:	<input checked="" type="checkbox"/> U-NII-1	<input checked="" type="checkbox"/> U-NII-2A	<input checked="" type="checkbox"/> U-NII-2C	<input checked="" type="checkbox"/> U-NII-3	
Operation Frequency Range:	U-NII-1:	5150MHz~5250MHz			
	U-NII-2A:	5250MHz~5350MHz			
	U-NII-2C:	5470MHz~5725MHz			
	U-NII-3:	5725MHz~5850MHz			
Support bandwidth:	802.11a	<input checked="" type="checkbox"/> 20MHz			
	802.11n	<input checked="" type="checkbox"/> 20MHz	<input checked="" type="checkbox"/> 40MHz		
	802.11ac	<input checked="" type="checkbox"/> 20MHz	<input checked="" type="checkbox"/> 40MHz	<input checked="" type="checkbox"/> 80MHz	<input type="checkbox"/> 160MHz
Modulation:	802.11a: OFDM (BIT/SK, QPSK, BPSK, 16QAM) 802.11n: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM, 256QAM)				
Bit Rate of Transmitter:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300Mbps 802.11ac: at most 866.7 Mbps				
Antenna 1 and 2 type:	Internal Metal Antenna				
Antenna 1 gain:	3.0dBi				
Antenna 2 gain:	2.3dBi				



## 2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkPad T460s	SL10K24796 JS	Lenovo
GPON Terminal	EG8247Q (FCC ID: QISEG8247Q)	/	HUAWEI
Cable Information			
Name	Shielded Type	Ferrite Core	Length
USB Cable	Unshielded	NO	100cm
Test Software Information			
Name	Version	/	/
SecureCRTPortable	/	/	/

## 2.4. Operation State

Operation Frequency List:

Band (MHz)	20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII-2A	52	5260	54	5270	58	5290
	56	5280				
	60	5300	62	5310		
	64	5320				
U-NII-2C	100	5500	102	5510	106	5530
	104	5520				
	108	5540	110	5550		
	112	5560				
	116	5580				
	132	5660	134	5670		
	136	5680				
	140	5700				
U-NII-3	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825				







Test channel is below:

Operating Band	Test Channel	20MHz		40MHz		80MHz	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	CH <sub>L</sub>	36	5180	38	5190	/	/
	CH <sub>M</sub>	40	5200	/	/	42	5210
	CH <sub>H</sub>	48	5240	46	5230	/	/
U-NII-2A	CH <sub>L</sub>	52	5260	54	5270	/	/
	CH <sub>M</sub>	56	5280	/	/	58	5290
	CH <sub>H</sub>	64	5320	62	5310	/	/
U-NII-2C	CH <sub>L</sub>	100	5500	102	5510	/	/
	CH <sub>M</sub>	116	5580	110	5550	106	5530
	CH <sub>H</sub>	140	5700	134	5670	/	/
U-NII-3	CH <sub>L</sub>	149	5745	151	5755	/	/
	CH <sub>M</sub>	157	5785	/	/	155	5775
	CH <sub>H</sub>	165	5825	159	5795	/	/

Data rate

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11a	6Mbps
802.11n(HT20)/ 802.11n(HT40)	HT-MCS0
802.11ac(VHT20)/ 802.11ac(VHT40)/ 802.11ac(VHT80)	VHT-MCS0

Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.



## 2.5. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX102	DA1580	Dec. 25, 2021
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021
16	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021

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17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
18	Attenuator	Chengdu E-Microwave	EMCAXX-10RNZ-3	---	Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021

**Note:**

1. The Cal. Interval was one year.
2. The cable loss has calculated in test result which connection between each test instruments.

### 3. TEST ITEM AND RESULTS

#### 3.1. Conducted Emission

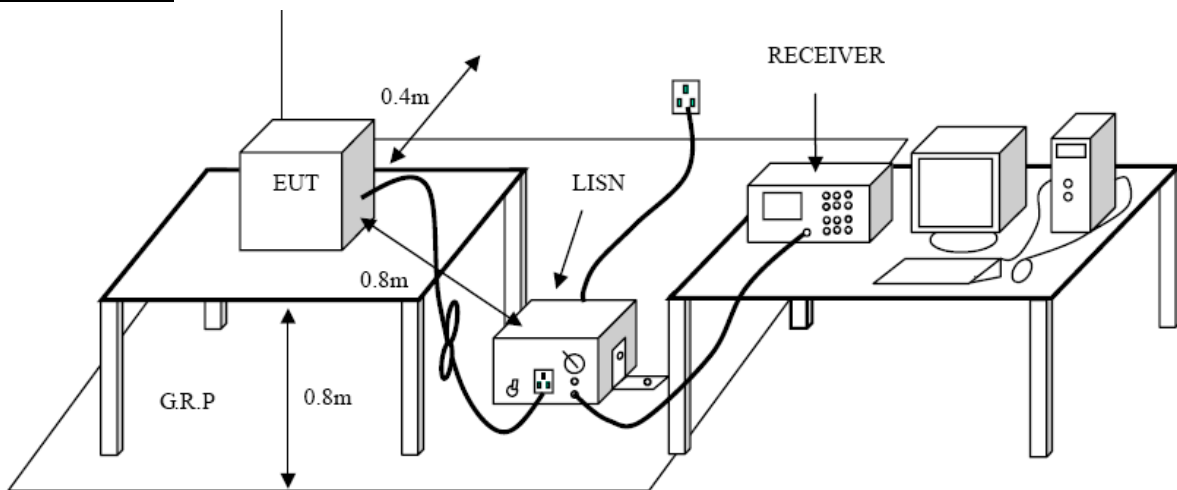
**Limit**

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS – Gen 8.8:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

**Test Configuration**



**Test Procedure**

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

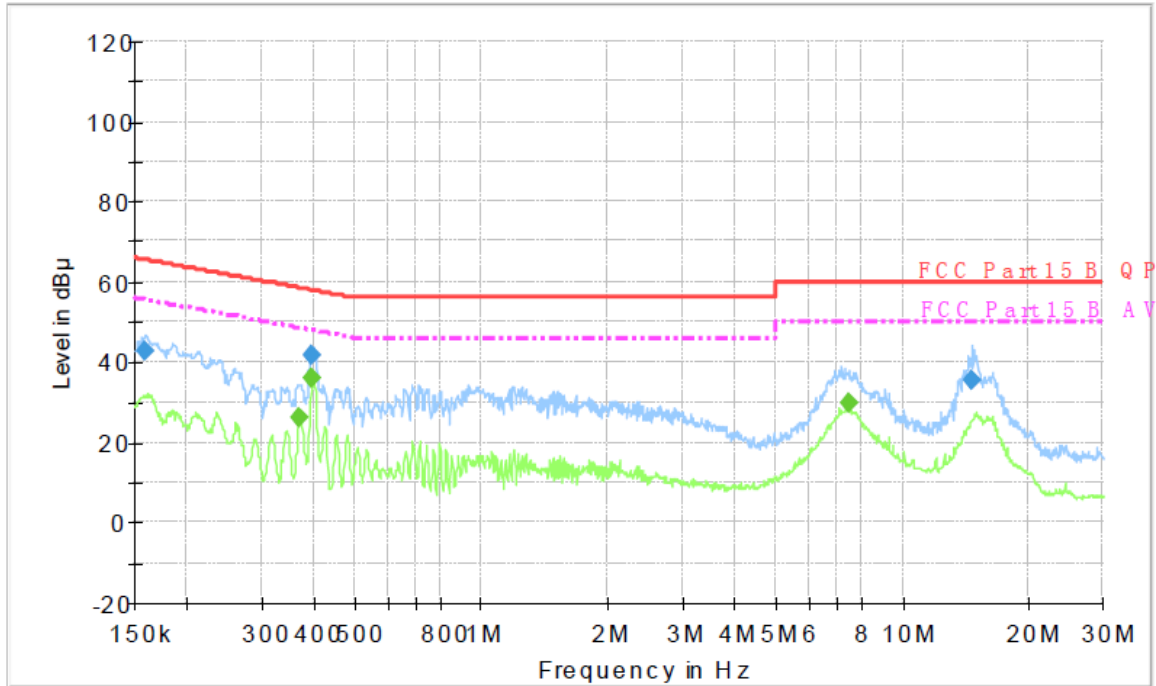
**Test Mode**

Please refer to the clause 2.4.



**Test Results**

<b>Test Voltage:</b>	AC 120V/60 Hz
<b>Terminal:</b>	Line



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.159260	43.0	1000.00	9.000	On	L1	9.7	22.5	65.5	
0.397300	42.0	1000.00	9.000	On	L1	9.7	15.9	57.9	
14.610330	35.3	1000.00	9.000	On	L1	9.8	24.7	60.0	

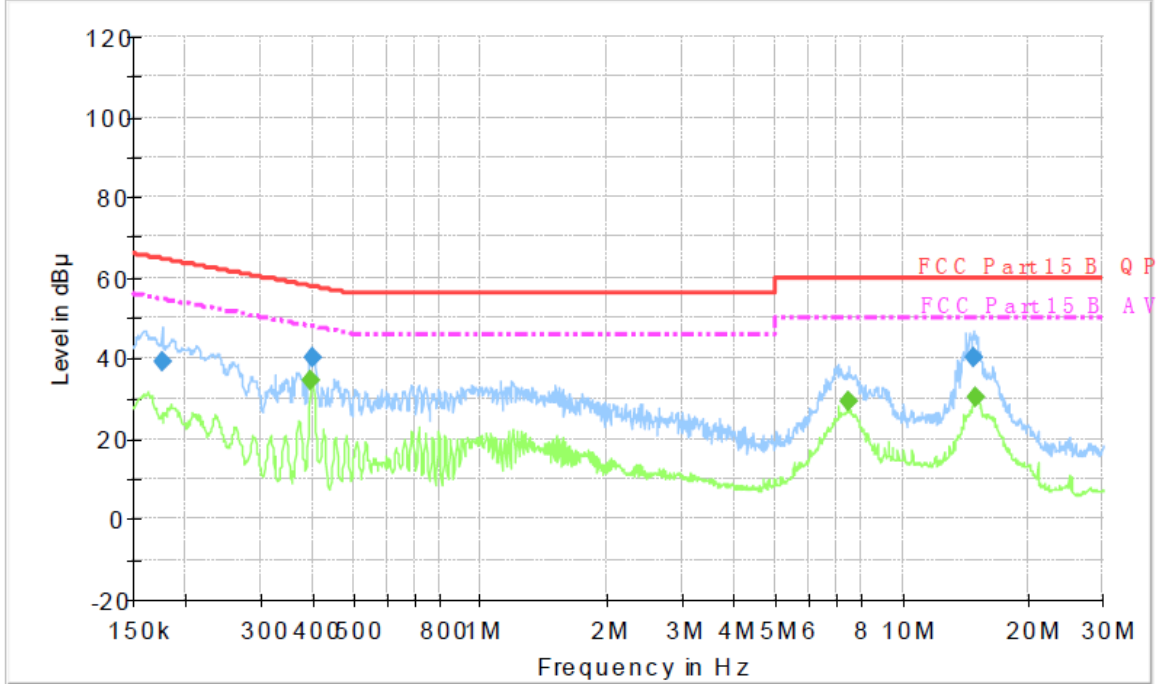
**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.369750	26.3	1000.00	9.000	On	L1	9.7	22.2	48.5	
0.397300	36.2	1000.00	9.000	On	L1	9.7	11.7	47.9	
7.471300	30.0	1000.00	9.000	On	L1	9.7	20.0	50.0	

Emission Level= Read Level+ Correct Factor



<b>Test Voltage:</b>	AC 120V/60 Hz
<b>Terminal:</b>	Neutral



**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)	Comment
0.175270	39.1	1000.00	9.000	On	N	10.0	25.6	64.7	
0.398890	39.9	1000.00	9.000	On	N	10.0	18.0	57.9	
14.786360	40.1	1000.00	9.000	On	N	10.0	20.0	60.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)	Comment
0.397300	34.2	1000.00	9.000	On	N	10.0	13.7	47.9	
7.471300	29.2	1000.00	9.000	On	N	10.0	20.8	50.0	
14.964510	30.3	1000.00	9.000	On	N	10.0	19.7	50.0	

Emission Level= Read Level+ Correct Factor



## 3.2. Radiated Emission

### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS-Gen 8.9

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)= 20log Emission Level (uV/m).

### Limits of unwanted emission out of the restricted bands

#### FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

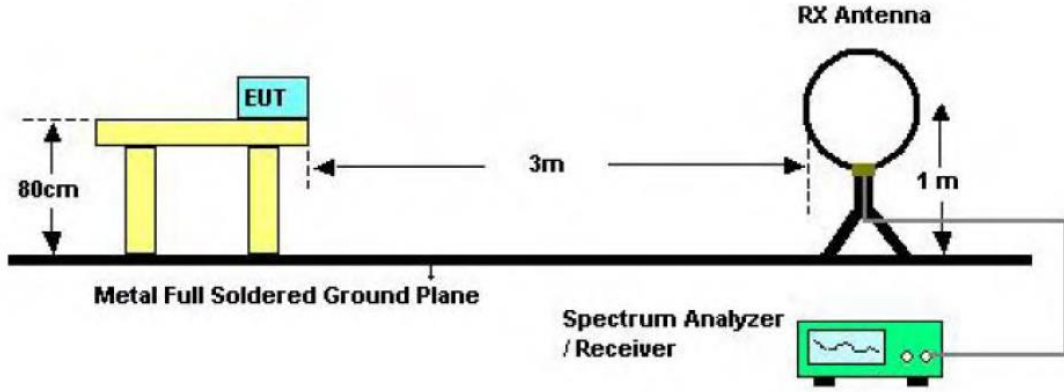
Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength:  $E = \frac{1000000 \sqrt{30P}}{3}$  uV/m, where P is the eirp (Watts)

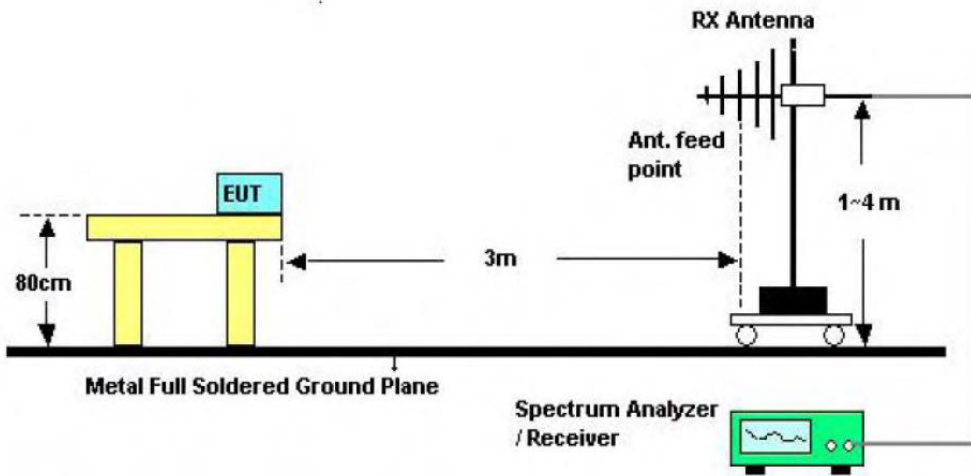
2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.



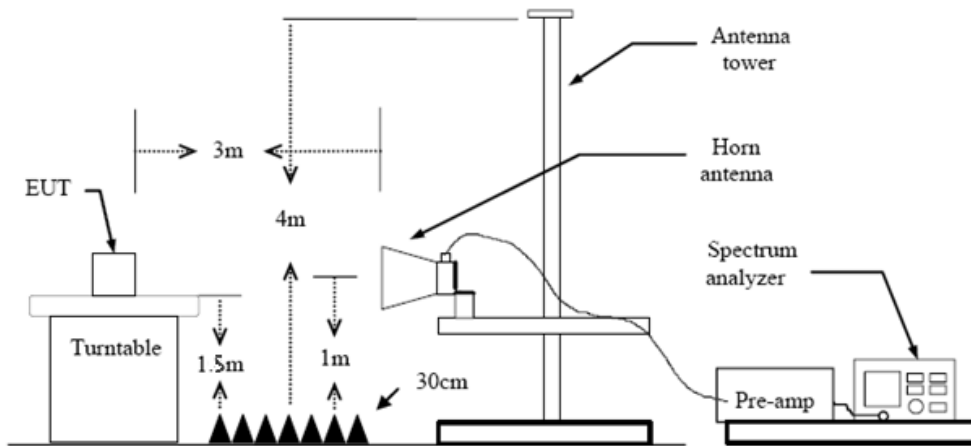
**Test Configuration**



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup





### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:  
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;  
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1 GHz to 10th harmonic:  
RBW=1MHz, VBW=3MHz Peak detector for Peak value.  
RBW=1MHz, VBW=3MHz RMS detector for Average value.

### Test Mode

Please refer to the clause 2.4.

### Test Result

#### **9 KHz~30 MHz**

From 9 KHz to 30 MHz: Conclusion: PASS

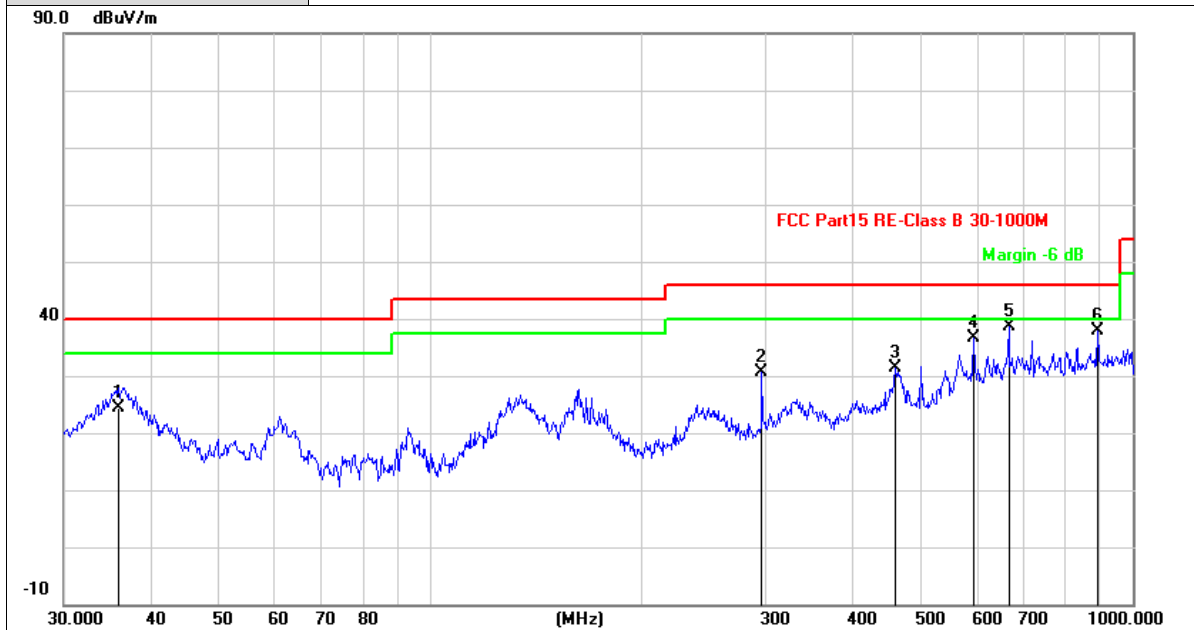
Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Pre-scan all antenna, only show the test data for worse case antenna on the test report.



30MHz-1GHz

Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported



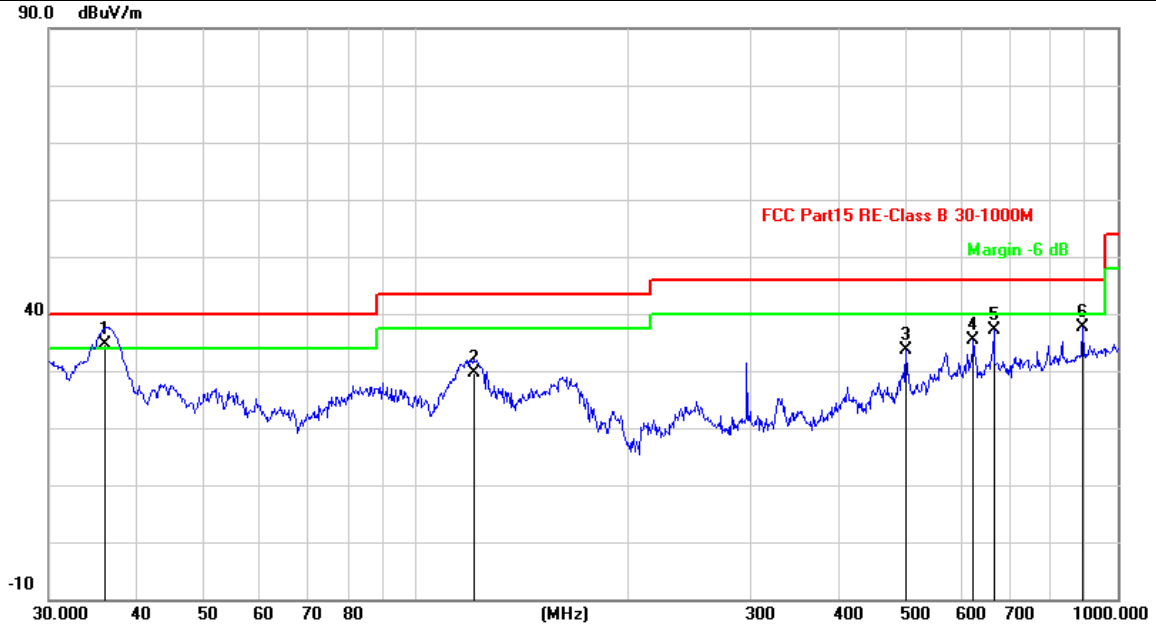
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.8746	-14.60	39.00	24.40	40.00	-15.60	QP
2	297.0733	-14.53	45.10	30.57	46.00	-15.43	QP
3	460.3566	-10.12	41.46	31.34	46.00	-14.66	QP
4	593.8931	-6.64	43.27	36.63	46.00	-9.37	QP
5	666.3200	-5.40	43.93	38.53	46.00	-7.47	QP
6	891.0366	-1.86	39.74	37.88	46.00	-8.12	QP

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.0007	-14.59	49.29	34.70	40.00	-5.30	QP
2	121.1800	-16.27	45.87	29.60	43.50	-13.90	QP
3	500.1265	-9.57	43.16	33.59	46.00	-12.41	QP
4	624.9333	-5.89	41.22	35.33	46.00	-10.67	QP
5	666.3200	-5.40	42.60	37.20	46.00	-8.80	QP
6	891.0366	-1.86	39.47	37.61	46.00	-8.39	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



## Above 1GHz

<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5180MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Factor (dB/m)</th> <th>Reading (dBuV)</th> <th>Level (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10360.210</td> <td>6.64</td> <td>49.57</td> <td>56.21</td> <td>74.00</td> <td>-17.79</td> <td>peak</td> </tr> <tr> <td>2</td> <td>10360.541</td> <td>6.64</td> <td>35.69</td> <td>42.33</td> <td>54.00</td> <td>-11.67</td> <td>AVG</td> </tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10360.210	6.64	49.57	56.21	74.00	-17.79	peak	2	10360.541	6.64	35.69	42.33	54.00	-11.67	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10360.210	6.64	49.57	56.21	74.00	-17.79	peak																								
2	10360.541	6.64	35.69	42.33	54.00	-11.67	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5180MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10360.005</td><td>6.64</td><td>35.90</td><td>42.54</td><td>54.00</td><td>-11.46</td><td>AVG</td></tr><tr><td>2</td><td>10360.113</td><td>6.64</td><td>49.23</td><td>55.87</td><td>74.00</td><td>-18.13</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10360.005	6.64	35.90	42.54	54.00	-11.46	AVG	2	10360.113	6.64	49.23	55.87	74.00	-18.13	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10360.005	6.64	35.90	42.54	54.00	-11.46	AVG																								
2	10360.113	6.64	49.23	55.87	74.00	-18.13	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11a Mode 5200MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.206	6.76	36.13	42.89	54.00	-11.11	AVG
2	10400.314	6.76	48.88	55.64	74.00	-18.36	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5200MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10400.120</td><td>6.76</td><td>36.25</td><td>43.01</td><td>54.00</td><td>-10.99</td><td>AVG</td></tr><tr><td>2</td><td>10400.141</td><td>6.76</td><td>49.33</td><td>56.09</td><td>74.00</td><td>-17.91</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10400.120	6.76	36.25	43.01	54.00	-10.99	AVG	2	10400.141	6.76	49.33	56.09	74.00	-17.91	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.120	6.76	36.25	43.01	54.00	-10.99	AVG																								
2	10400.141	6.76	49.33	56.09	74.00	-17.91	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5240MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10480.230</td><td>6.99</td><td>35.66</td><td>42.65</td><td>54.00</td><td>-11.35</td><td>AVG</td></tr><tr><td>2</td><td>10480.338</td><td>6.99</td><td>48.91</td><td>55.90</td><td>74.00</td><td>-18.10</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10480.230	6.99	35.66	42.65	54.00	-11.35	AVG	2	10480.338	6.99	48.91	55.90	74.00	-18.10	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10480.230	6.99	35.66	42.65	54.00	-11.35	AVG																								
2	10480.338	6.99	48.91	55.90	74.00	-18.10	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5240MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.987	6.99	49.57	56.56	74.00	-17.44	peak																								
2	10480.005	6.99	36.03	43.02	54.00	-10.98	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10360.101</td><td>6.64</td><td>49.73</td><td>56.37</td><td>74.00</td><td>-17.63</td><td>peak</td></tr><tr><td>2</td><td>10360.454</td><td>6.64</td><td>36.66</td><td>43.30</td><td>54.00</td><td>-10.70</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10360.101	6.64	49.73	56.37	74.00	-17.63	peak	2	10360.454	6.64	36.66	43.30	54.00	-10.70	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10360.101	6.64	49.73	56.37	74.00	-17.63	peak																								
2	10360.454	6.64	36.66	43.30	54.00	-10.70	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10360.033	6.64	50.37	57.01	74.00	-16.99	peak
2	10360.228	6.64	36.91	43.55	54.00	-10.45	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBUV)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10399.950</td><td>6.76</td><td>36.57</td><td>43.33</td><td>54.00</td><td>-10.67</td><td>AVG</td></tr><tr><td>2</td><td>10400.122</td><td>6.76</td><td>50.11</td><td>56.87</td><td>74.00</td><td>-17.13</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	10399.950	6.76	36.57	43.33	54.00	-10.67	AVG	2	10400.122	6.76	50.11	56.87	74.00	-17.13	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	10399.950	6.76	36.57	43.33	54.00	-10.67	AVG																								
2	10400.122	6.76	50.11	56.87	74.00	-17.13	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10400.132</td><td>6.76</td><td>49.93</td><td>56.69</td><td>74.00</td><td>-17.31</td><td>peak</td></tr><tr><td>2</td><td>10400.456</td><td>6.76</td><td>36.18</td><td>42.94</td><td>54.00</td><td>-11.06</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10400.132	6.76	49.93	56.69	74.00	-17.31	peak	2	10400.456	6.76	36.18	42.94	54.00	-11.06	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.132	6.76	49.93	56.69	74.00	-17.31	peak																								
2	10400.456	6.76	36.18	42.94	54.00	-11.06	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10479.972	6.99	36.61	43.60	54.00	-10.40	AVG
2	10480.120	6.99	49.67	56.66	74.00	-17.34	peak

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.989	6.99	50.22	57.21	74.00	-16.79	peak																								
2	10480.123	6.99	36.43	43.42	54.00	-10.58	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10360.021	6.64	36.69	43.33	54.00	-10.67	AVG
2	10360.115	6.64	50.33	56.97	74.00	-17.03	peak

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value





<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10360.224	6.64	36.70	43.34	54.00	-10.66	AVG																								
2	10360.240	6.64	50.14	56.78	74.00	-17.22	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.117	6.76	36.32	43.08	54.00	-10.92	AVG																								
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<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.044	6.76	49.92	56.68	74.00	-17.32	peak
2	10400.256	6.76	36.23	42.99	54.00	-11.01	AVG

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10479.890</td><td>6.99</td><td>36.15</td><td>43.14</td><td>54.00</td><td>-10.86</td><td>AVG</td></tr><tr><td>2</td><td>10480.200</td><td>6.99</td><td>50.26</td><td>57.25</td><td>74.00</td><td>-16.75</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10479.890	6.99	36.15	43.14	54.00	-10.86	AVG	2	10480.200	6.99	50.26	57.25	74.00	-16.75	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.890	6.99	36.15	43.14	54.00	-10.86	AVG																								
2	10480.200	6.99	50.26	57.25	74.00	-16.75	peak																								
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<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10480.111	6.99	49.89	56.88	74.00	-17.12	peak																								
2	10480.230	6.99	36.10	43.09	54.00	-10.91	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10379.891	6.70	50.71	57.41	74.00	-16.59	peak																								
2	10380.258	6.70	36.80	43.50	54.00	-10.50	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10380.033	6.70	36.14	42.84	54.00	-11.16	AVG																								
2	10380.350	6.70	50.04	56.74	74.00	-17.26	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10459.999	6.94	49.45	56.39	74.00	-17.61	peak																								
2	10460.461	6.94	36.19	43.13	54.00	-10.87	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10460.115	6.94	36.12	43.06	54.00	-10.94	AVG																								
2	10460.305	6.94	49.80	56.74	74.00	-17.26	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	10380.418	6.70	36.85	43.55	54.00	-10.45	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10380.331	6.70	49.36	56.06	74.00	-17.94	peak
2	10380.353	6.70	36.41	43.11	54.00	-10.89	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10460.002	6.94	49.35	56.29	74.00	-17.71	peak																								
2	10460.209	6.94	36.28	43.22	54.00	-10.78	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10460.104	6.94	49.88	56.82	74.00	-17.18	peak																								
2	10460.342	6.94	36.43	43.37	54.00	-10.63	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10420.033	6.82	50.20	57.02	74.00	-16.98	peak																								
2	10420.188	6.82	36.99	43.81	54.00	-10.19	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10520.114	7.10	50.13	57.23	74.00	-16.77	peak																								
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<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10520.004	7.10	36.45	43.55	54.00	-10.45	AVG																								
2	10520.250	7.10	49.54	56.64	74.00	-17.36	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5280MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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<b>Ant. Pol.</b>	Vertical																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10560.120	7.17	35.82	42.99	54.00	-11.01	AVG																								
2	10560.385	7.17	48.77	55.94	74.00	-18.06	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5320MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10640.012	7.35	49.17	56.52	74.00	-17.48	peak																								
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<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	10520.210	7.10	36.07	43.17	54.00	-10.83	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



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<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10520.020	7.10	36.29	43.39	54.00	-10.61	AVG																								
2	10520.324	7.10	49.70	56.80	74.00	-17.20	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



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<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5280MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10560.222	7.17	36.13	43.30	54.00	-10.70	AVG																								
2	10560.247	7.17	49.01	56.18	74.00	-17.82	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





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<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5280MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5320MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10640.182	7.35	49.58	56.93	74.00	-17.07	peak																								
2	10640.214	7.35	36.19	43.54	54.00	-10.46	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5320MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10640.316	7.35	48.40	55.75	74.00	-18.25	peak																								
2	10640.431	7.35	35.64	42.99	54.00	-11.01	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10519.950	7.10	35.95	43.05	54.00	-10.95	AVG																								
2	10520.420	7.10	49.54	56.64	74.00	-17.36	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
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<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5260MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10520.207	7.10	49.57	56.67	74.00	-17.33	peak																								
2	10520.403	7.10	36.40	43.50	54.00	-10.50	AVG																								
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<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5280MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10560.134	7.17	36.55	43.72	54.00	-10.28	AVG																								
2	10560.308	7.17	49.67	56.84	74.00	-17.16	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



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<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5280MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10559.981	7.17	49.09	56.26	74.00	-17.74	peak																								
2	10560.150	7.17	35.52	42.69	54.00	-11.31	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



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<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10640.293	7.35	36.25	43.60	54.00	-10.40	AVG																								
2	10640.310	7.35	48.74	56.09	74.00	-17.91	peak																								
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<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10639.980	7.35	48.95	56.30	74.00	-17.70	peak																								
2	10640.415	7.35	35.90	43.25	54.00	-10.75	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5270MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10540.060	7.15	36.15	43.30	54.00	-10.70	AVG																								
2	10540.275	7.15	48.74	55.89	74.00	-18.11	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



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<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5270MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10539.970	7.15	36.55	43.70	54.00	-10.30	AVG																								
2	10540.025	7.15	48.98	56.13	74.00	-17.87	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



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<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10620.122	7.30	49.12	56.42	74.00	-17.58	peak																								
2	10620.234	7.30	36.07	43.37	54.00	-10.63	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



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<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10620.257	7.30	35.70	43.00	54.00	-11.00	AVG																								
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10539.980	7.15	36.06	43.21	54.00	-10.79	AVG																								
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<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10620.088	7.30	48.57	55.87	74.00	-18.13	peak																								
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<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10580.202	7.21	49.28	56.49	74.00	-17.51	peak																								
2	10580.260	7.21	36.00	43.21	54.00	-10.79	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10580.030	7.21	48.68	55.89	74.00	-18.11	peak
2	10580.121	7.21	36.49	43.70	54.00	-10.30	AVG

## Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11a Mode 5500MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11000.205	8.07	47.62	55.69	74.00	-18.31	peak
2	11000.323	8.07	34.89	42.96	54.00	-11.04	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5500MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11000.191	8.07	35.06	43.13	54.00	-10.87	AVG																								
2	11000.374	8.07	47.89	55.96	74.00	-18.04	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5580MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11159.980	7.86	48.30	56.16	74.00	-17.84	peak																								
2	11160.150	7.86	35.34	43.20	54.00	-10.80	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5580MHz (U-NII-2C)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11160.120	7.86	35.13	42.99	54.00	-11.01	AVG																								
2	11160.160	7.86	48.40	56.26	74.00	-17.74	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5700MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11400.010	7.56	48.21	55.77	74.00	-18.23	peak																								
2	11400.361	7.56	35.94	43.50	54.00	-10.50	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5700MHz (U-NII-2C)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11400.020	7.56	48.33	55.89	74.00	-18.11	peak																								
2	11400.114	7.56	35.59	43.15	54.00	-10.85	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5500MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11000.054	8.07	35.33	43.40	54.00	-10.60	AVG																								
2	11000.373	8.07	47.81	55.88	74.00	-18.12	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5500MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11000.230	8.07	47.72	55.79	74.00	-18.21	peak
2	11000.360	8.07	35.15	43.22	54.00	-10.78	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5580MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	11160.430	7.86	35.96	43.82	54.00	-10.18	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5580MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11159.980	7.86	35.02	42.88	54.00	-11.12	AVG
2	11160.347	7.86	48.37	56.23	74.00	-17.77	peak

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5700MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11400.260	7.56	35.64	43.20	54.00	-10.80	AVG																								
2	11400.306	7.56	48.62	56.18	74.00	-17.82	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5700MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11400.114	7.56	48.42	55.98	74.00	-18.02	peak																								
2	11400.203	7.56	35.80	43.36	54.00	-10.64	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11000.113	8.07	48.32	56.39	74.00	-17.61	peak																								
2	11000.312	8.07	35.23	43.30	54.00	-10.70	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11000.185	8.07	35.43	43.50	54.00	-10.50	AVG
2	11000.304	8.07	48.45	56.52	74.00	-17.48	peak

**Remarks:**

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5580MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11160.247	7.86	35.12	42.98	54.00	-11.02	AVG																								
2	11160.360	7.86	48.52	56.38	74.00	-17.62	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5580MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11160.182	7.86	34.94	42.80	54.00	-11.20	AVG																								
2	11160.371	7.86	48.46	56.32	74.00	-17.68	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11400.171	7.56	35.68	43.24	54.00	-10.76	AVG
2	11400.225	7.56	49.35	56.91	74.00	-17.09	peak

**Remarks:**

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11400.271	7.56	35.32	42.88	54.00	-11.12	AVG																								
2	11400.573	7.56	48.34	55.90	74.00	-18.10	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5510MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11020.165	8.04	48.32	56.36	74.00	-17.64	peak																								
2	11020.230	8.04	35.30	43.34	54.00	-10.66	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5510MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11020.250	8.04	35.51	43.55	54.00	-10.45	AVG																								
2	11020.321	8.04	48.09	56.13	74.00	-17.87	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5550MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11100.160	7.94	48.50	56.44	74.00	-17.56	peak																								
2	11100.211	7.94	35.76	43.70	54.00	-10.30	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5550MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11100.070	7.94	35.26	43.20	54.00	-10.80	AVG																								
2	11100.251	7.94	47.85	55.79	74.00	-18.21	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5670MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11340.310	7.63	35.77	43.40	54.00	-10.60	AVG																								
2	11340.430	7.63	48.22	55.85	74.00	-18.15	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
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<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5670MHz (U-NII-2C)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11340.036	7.63	35.97	43.60	54.00	-10.40	AVG																								
2	11340.101	7.63	48.56	56.19	74.00	-17.81	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11020.140</td><td>8.04</td><td>48.07</td><td>56.11</td><td>74.00</td><td>-17.89</td><td>peak</td></tr><tr><td>2</td><td>11020.256</td><td>8.04</td><td>35.16</td><td>43.20</td><td>54.00</td><td>-10.80</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11020.140	8.04	48.07	56.11	74.00	-17.89	peak	2	11020.256	8.04	35.16	43.20	54.00	-10.80	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11020.140	8.04	48.07	56.11	74.00	-17.89	peak																								
2	11020.256	8.04	35.16	43.20	54.00	-10.80	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11020.054	8.04	48.33	56.37	74.00	-17.63	peak																								
2	11020.354	8.04	35.25	43.29	54.00	-10.71	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5550MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11100.134</td><td>7.94</td><td>35.36</td><td>43.30</td><td>54.00</td><td>-10.70</td><td>AVG</td></tr><tr><td>2</td><td>11100.246</td><td>7.94</td><td>48.27</td><td>56.21</td><td>74.00</td><td>-17.79</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11100.134	7.94	35.36	43.30	54.00	-10.70	AVG	2	11100.246	7.94	48.27	56.21	74.00	-17.79	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11100.134	7.94	35.36	43.30	54.00	-10.70	AVG																								
2	11100.246	7.94	48.27	56.21	74.00	-17.79	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5550MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11100.208	7.94	35.15	43.09	54.00	-10.91	AVG																								
2	11100.261	7.94	48.73	56.67	74.00	-17.33	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11340.307	7.63	48.97	56.60	74.00	-17.40	peak
2	11340.405	7.63	35.79	43.42	54.00	-10.58	AVG

**Remarks:**

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11340.263	7.63	49.37	57.00	74.00	-17.00	peak																								
2	11340.272	7.63	35.57	43.20	54.00	-10.80	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11060.050	7.99	35.27	43.26	54.00	-10.74	AVG																								
2	11060.102	7.99	48.15	56.14	74.00	-17.86	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11060.152</td><td>7.99</td><td>35.61</td><td>43.60</td><td>54.00</td><td>-10.40</td><td>AVG</td></tr><tr><td>2</td><td>11060.180</td><td>7.99</td><td>48.10</td><td>56.09</td><td>74.00</td><td>-17.91</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11060.152	7.99	35.61	43.60	54.00	-10.40	AVG	2	11060.180	7.99	48.10	56.09	74.00	-17.91	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11060.152	7.99	35.61	43.60	54.00	-10.40	AVG																								
2	11060.180	7.99	48.10	56.09	74.00	-17.91	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5745MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11490.138	7.44	35.86	43.30	54.00	-10.70	AVG																								
2	11490.250	7.44	48.40	55.84	74.00	-18.16	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5745MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11490.049	7.44	36.06	43.50	54.00	-10.50	AVG																								
2	11490.217	7.44	48.67	56.11	74.00	-17.89	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11a Mode 5785MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11569.987	7.39	36.22	43.61	54.00	-10.39	AVG
2	11570.207	7.39	49.33	56.72	74.00	-17.28	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5785MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11570.133	7.39	48.56	55.95	74.00	-18.05	peak																								
2	11570.348	7.39	35.86	43.25	54.00	-10.75	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11a Mode 5825MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11650.171</td><td>7.33</td><td>49.09</td><td>56.42</td><td>74.00</td><td>-17.58</td><td>peak</td></tr><tr><td>2</td><td>11650.228</td><td>7.33</td><td>35.73</td><td>43.06</td><td>54.00</td><td>-10.94</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11650.171	7.33	49.09	56.42	74.00	-17.58	peak	2	11650.228	7.33	35.73	43.06	54.00	-10.94	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.171	7.33	49.09	56.42	74.00	-17.58	peak																								
2	11650.228	7.33	35.73	43.06	54.00	-10.94	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11a Mode 5825MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.117	7.33	49.03	56.36	74.00	-17.64	peak																								
2	11650.240	7.33	36.01	43.34	54.00	-10.66	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11489.974	7.44	48.64	56.08	74.00	-17.92	peak
2	11490.121	7.44	35.95	43.39	54.00	-10.61	AVG

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	11490.233	7.44	48.73	56.17	74.00	-17.83	peak																								
2	11490.312	7.44	35.96	43.40	54.00	-10.60	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11570.135	7.39	48.86	56.25	74.00	-17.75	peak																								
2	11570.231	7.39	36.11	43.50	54.00	-10.50	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11570.128	7.39	35.79	43.18	54.00	-10.82	AVG																								
2	11570.211	7.39	49.15	56.54	74.00	-17.46	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.048	7.33	48.73	56.06	74.00	-17.94	peak																								
2	11650.229	7.33	35.67	43.00	54.00	-11.00	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.126	7.33	48.71	56.04	74.00	-17.96	peak
2	11650.218	7.33	35.97	43.30	54.00	-10.70	AVG

**Remarks:**

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11490.155	7.44	35.77	43.21	54.00	-10.79	AVG																								
2	11490.213	7.44	49.80	57.24	74.00	-16.76	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11489.992	7.44	35.71	43.15	54.00	-10.85	AVG																								
2	11490.011	7.44	49.24	56.68	74.00	-17.32	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11570.258	7.39	49.29	56.68	74.00	-17.32	peak
2	11570.341	7.39	36.09	43.48	54.00	-10.52	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11569.975	7.39	35.81	43.20	54.00	-10.80	AVG																								
2	11570.312	7.39	49.10	56.49	74.00	-17.51	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.201	7.33	48.65	55.98	74.00	-18.02	peak																								
2	11650.211	7.33	35.61	42.94	54.00	-11.06	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11649.968	7.34	48.32	55.66	74.00	-18.34	peak																								
2	11650.178	7.33	35.64	42.97	54.00	-11.03	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11510.238	7.43	48.91	56.34	74.00	-17.66	peak
2	11510.400	7.43	35.80	43.23	54.00	-10.77	AVG

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11510.011	7.43	48.57	56.00	74.00	-18.00	peak																								
2	11510.118	7.43	35.56	42.99	54.00	-11.01	AVG																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11590.017	7.37	48.79	56.16	74.00	-17.84	peak																								
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<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															





<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11590.107	7.37	49.11	56.48	74.00	-17.52	peak
2	11590.215	7.37	35.72	43.09	54.00	-10.91	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11510.134</td><td>7.43</td><td>35.65</td><td>43.08</td><td>54.00</td><td>-10.92</td><td>AVG</td></tr><tr><td>2</td><td>11510.229</td><td>7.43</td><td>48.74</td><td>56.17</td><td>74.00</td><td>-17.83</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11510.134	7.43	35.65	43.08	54.00	-10.92	AVG	2	11510.229	7.43	48.74	56.17	74.00	-17.83	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11510.134	7.43	35.65	43.08	54.00	-10.92	AVG																								
2	11510.229	7.43	48.74	56.17	74.00	-17.83	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11510.234	7.43	49.18	56.61	74.00	-17.39	peak
2	11510.251	7.43	35.82	43.25	54.00	-10.75	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11589.985</td><td>7.37</td><td>49.04</td><td>56.41</td><td>74.00</td><td>-17.59</td><td>peak</td></tr><tr><td>2</td><td>11590.123</td><td>7.37</td><td>35.92</td><td>43.29</td><td>54.00</td><td>-10.71</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11589.985	7.37	49.04	56.41	74.00	-17.59	peak	2	11590.123	7.37	35.92	43.29	54.00	-10.71	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11589.985	7.37	49.04	56.41	74.00	-17.59	peak																								
2	11590.123	7.37	35.92	43.29	54.00	-10.71	AVG																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11590.181</td><td>7.37</td><td>35.72</td><td>43.09</td><td>54.00</td><td>-10.91</td><td>AVG</td></tr><tr><td>2</td><td>11590.192</td><td>7.37</td><td>48.83</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11590.181	7.37	35.72	43.09	54.00	-10.91	AVG	2	11590.192	7.37	48.83	56.20	74.00	-17.80	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11590.181	7.37	35.72	43.09	54.00	-10.91	AVG																								
2	11590.192	7.37	48.83	56.20	74.00	-17.80	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Horizontal																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Factor (dB/m)</th> <th>Reading (dBuV)</th> <th>Level (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11550.014</td> <td>7.39</td> <td>35.78</td> <td>43.17</td> <td>54.00</td> <td>-10.83</td> <td>AVG</td> </tr> <tr> <td>2</td> <td>11550.222</td> <td>7.39</td> <td>49.23</td> <td>56.62</td> <td>74.00</td> <td>-17.38</td> <td>peak</td> </tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11550.014	7.39	35.78	43.17	54.00	-10.83	AVG	2	11550.222	7.39	49.23	56.62	74.00	-17.38	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11550.014	7.39	35.78	43.17	54.00	-10.83	AVG																								
2	11550.222	7.39	49.23	56.62	74.00	-17.38	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															



<b>Ant No.:</b>	Ant 1 + Ant 2																														
<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11550.027</td><td>7.39</td><td>35.55</td><td>42.94</td><td>54.00</td><td>-11.06</td><td>AVG</td></tr><tr><td>2</td><td>11550.126</td><td>7.39</td><td>49.07</td><td>56.46</td><td>74.00</td><td>-17.54</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11550.027	7.39	35.55	42.94	54.00	-11.06	AVG	2	11550.126	7.39	49.07	56.46	74.00	-17.54	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11550.027	7.39	35.55	42.94	54.00	-11.06	AVG																								
2	11550.126	7.39	49.07	56.46	74.00	-17.54	peak																								
<b>Remarks:</b> 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

### 3.3. Band Edge Emissions

**Limit**

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

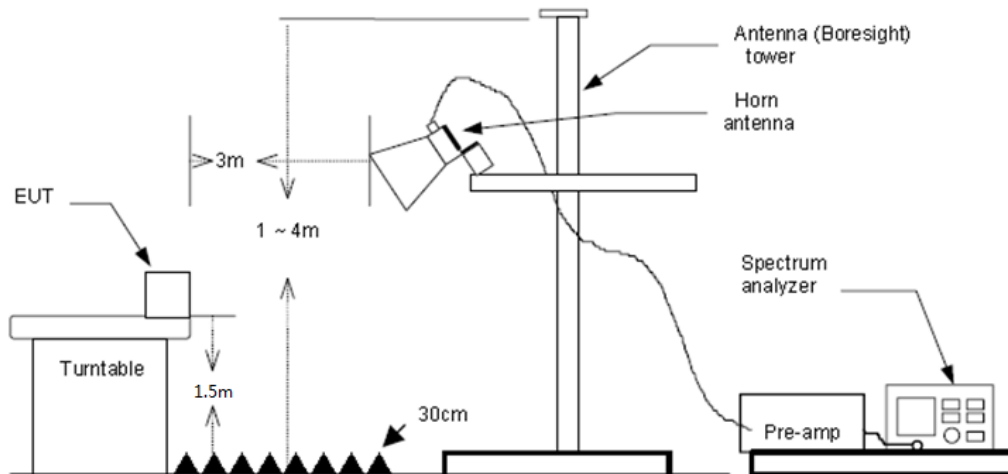
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

Note 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

2. According to FCC 16-24, 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 25MHz 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 27dBm/MHz at the band edge.

**Test Configuration**



**Test Procedure**

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:





RBW=1MHz, VBW=3MHz PEAK detector for Peak value.  
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Appendix E: Duty Cycle

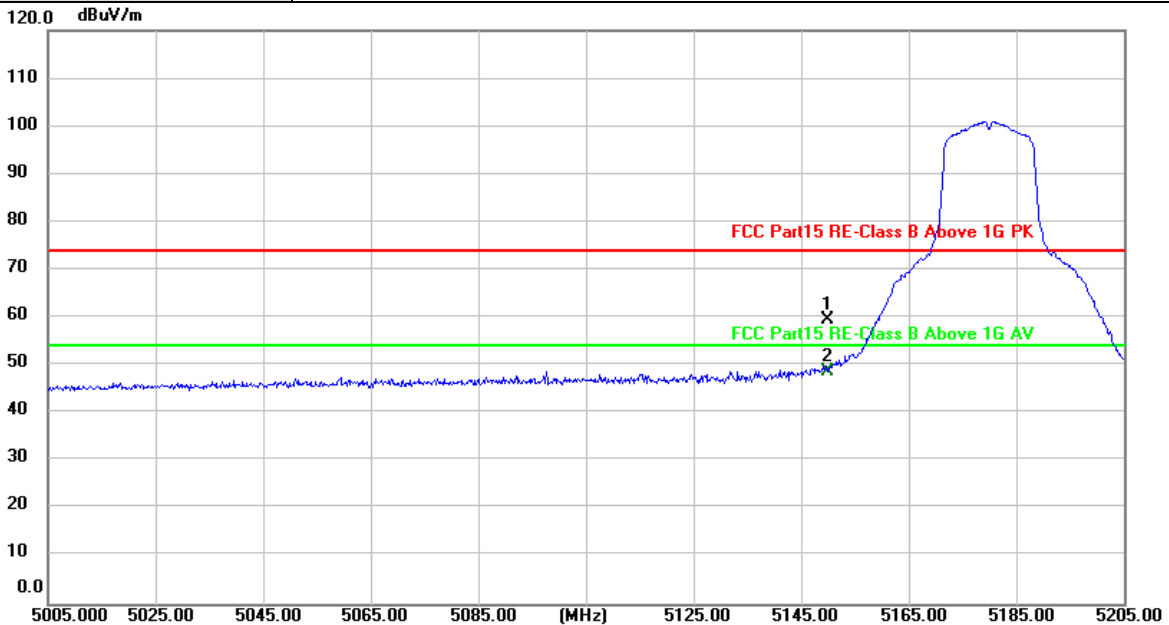
**Test Mode**

Please refer to the clause 2.4.

**Test Results**

Pre-scan all antenna, only show the test data for worse case antenna on the test report.

<b>Ant No.:</b>	Ant 1
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11a Mode 5180MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



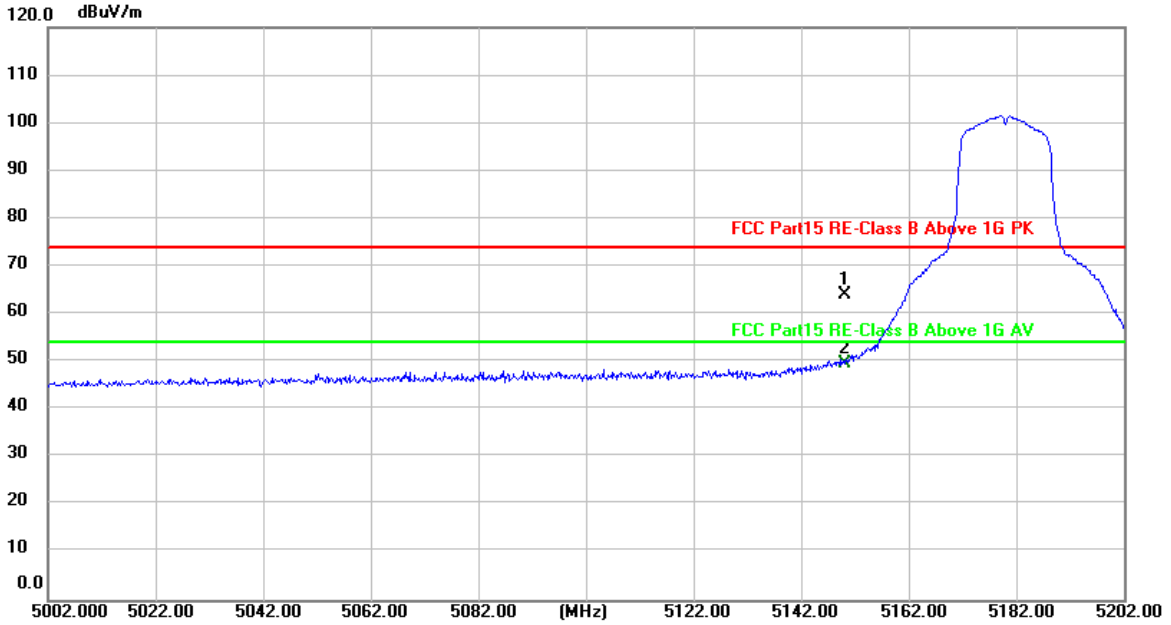
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	22.33	37.15	59.48	74.00	-14.52	peak
2 *	5150.000	11.74	37.15	48.89	54.00	-5.11	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	26.88	37.15	64.03	74.00	-9.97	peak
2 *	5150.000	12.56	37.15	49.71	54.00	-4.29	AVG

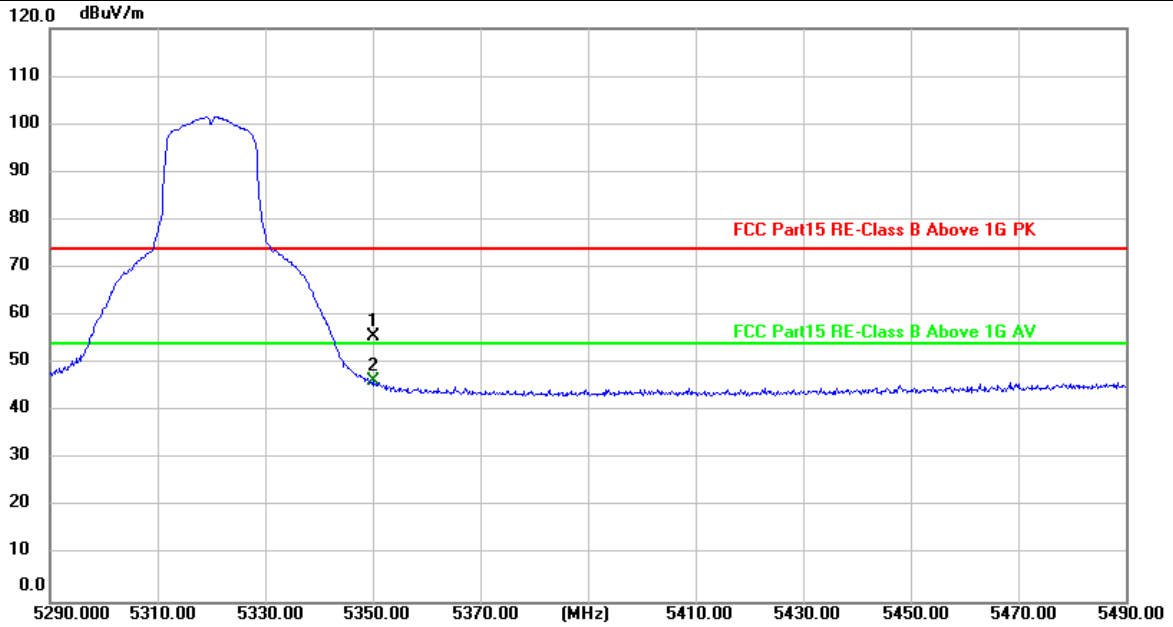
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



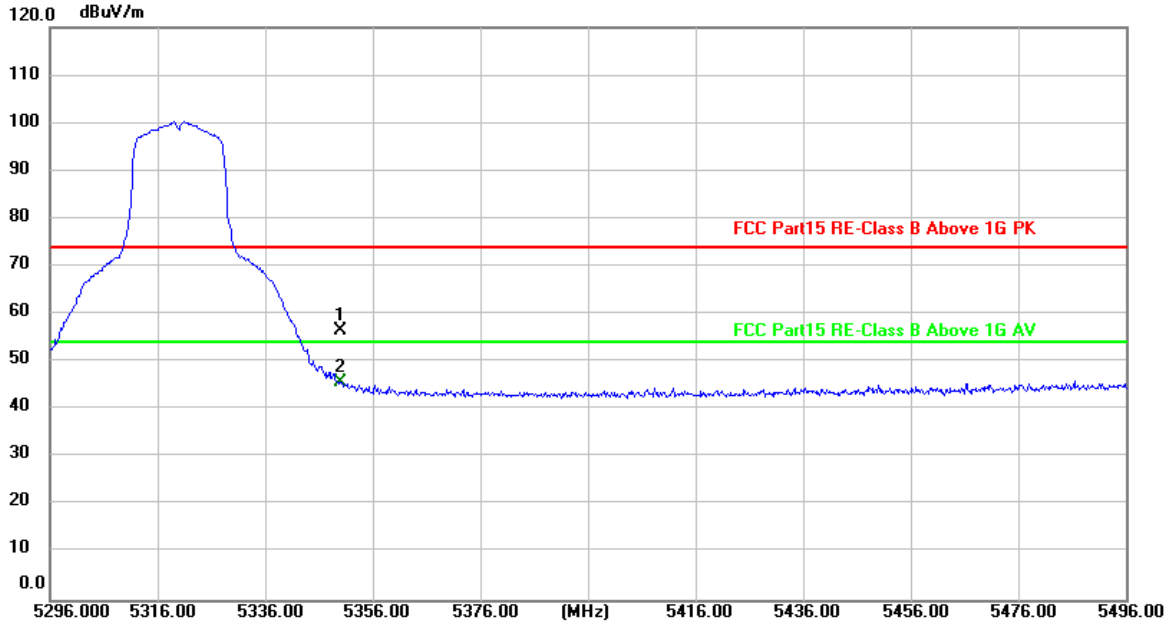
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	18.16	37.41	55.57	74.00	-18.43	peak
2 *	5350.000	8.83	37.41	46.24	54.00	-7.76	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



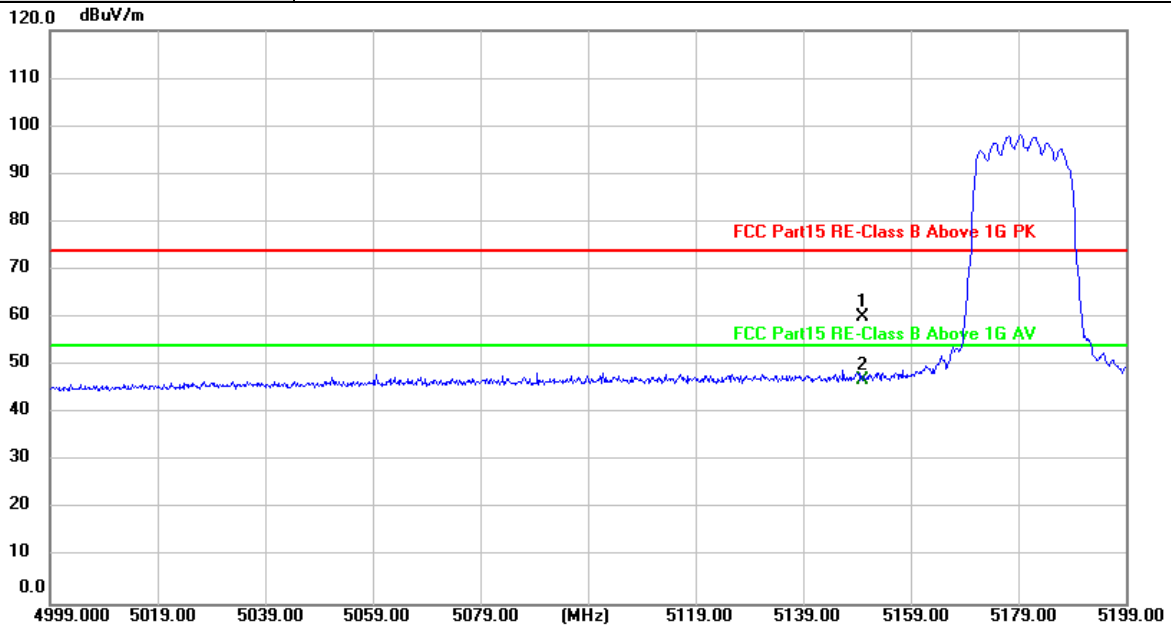
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	19.09	37.41	56.50	74.00	-17.50	peak
2 *	5350.000	8.48	37.41	45.89	54.00	-8.11	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

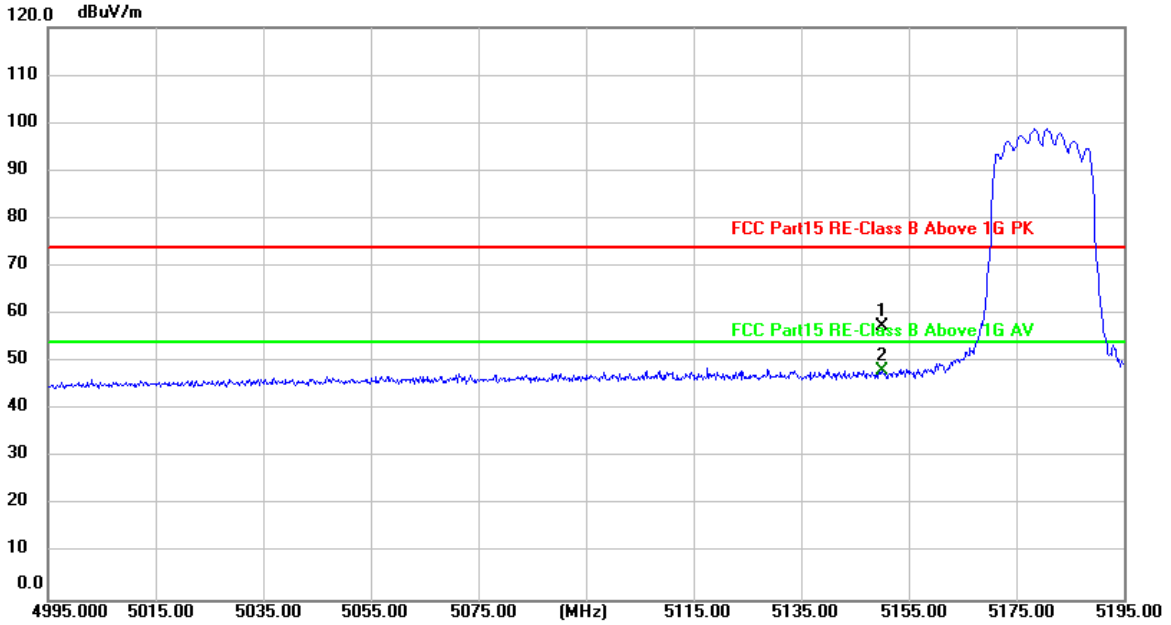


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	22.93	37.15	60.08	74.00	-13.92	peak
2 *	5150.000	9.81	37.15	46.96	54.00	-7.04	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	20.37	37.15	57.52	74.00	-16.48	peak
2 *	5150.000	11.12	37.15	48.27	54.00	-5.73	AVG

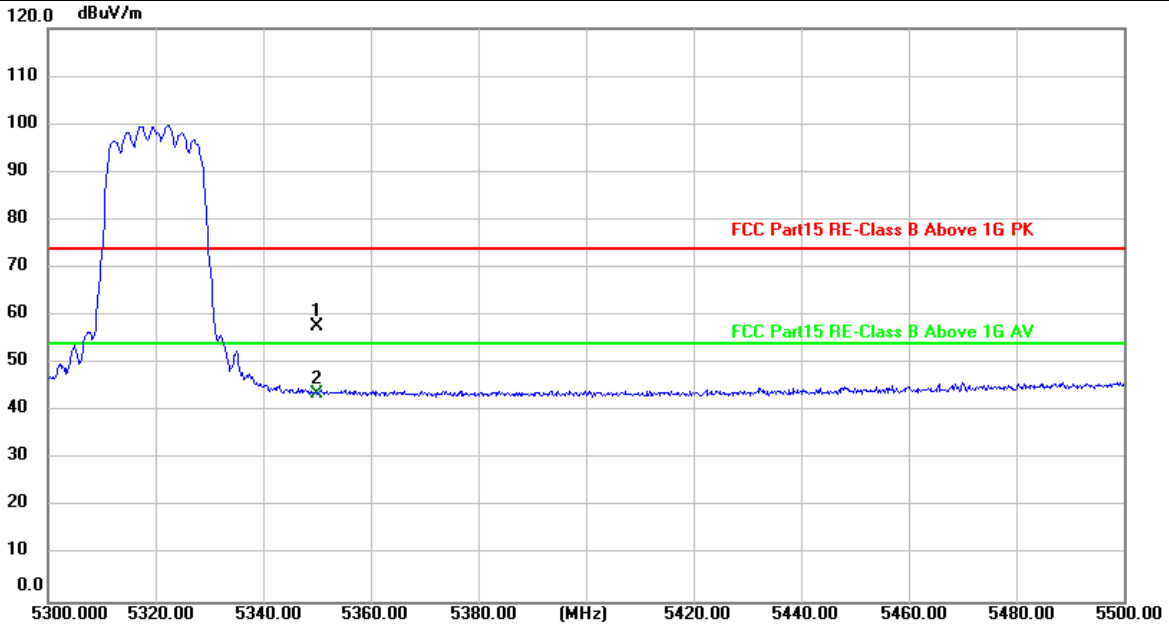
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



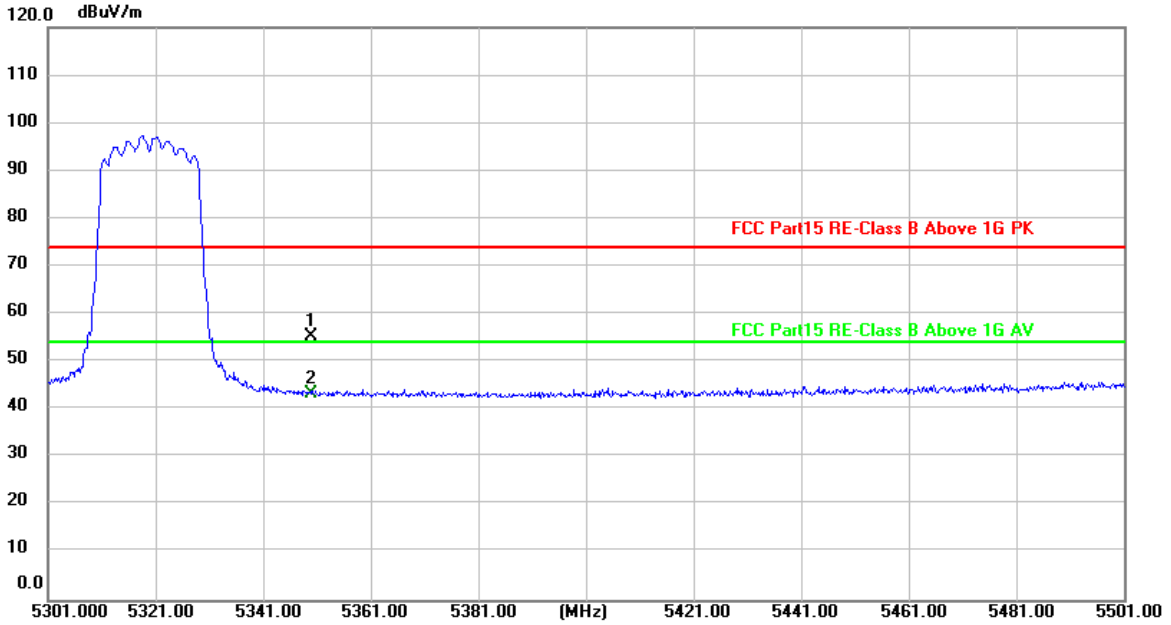
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	20.31	37.41	57.72	74.00	-16.28	peak
2 *	5350.000	6.33	37.41	43.74	54.00	-10.26	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	17.89	37.41	55.30	74.00	-18.70	peak
2 *	5350.000	5.85	37.41	43.26	54.00	-10.74	AVG

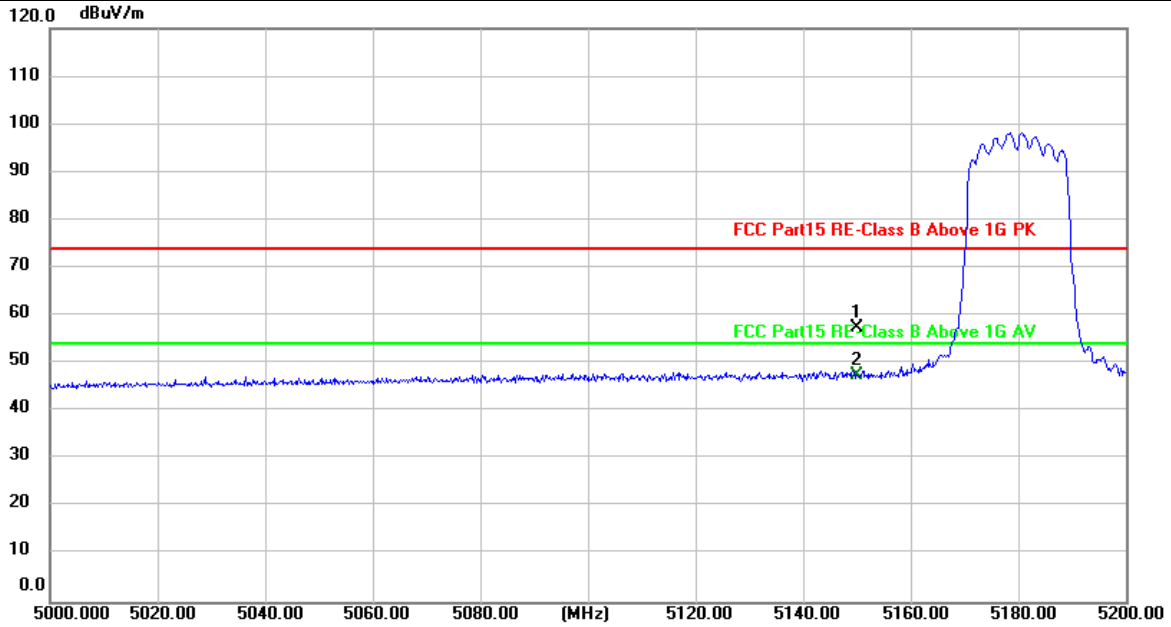
Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value





Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

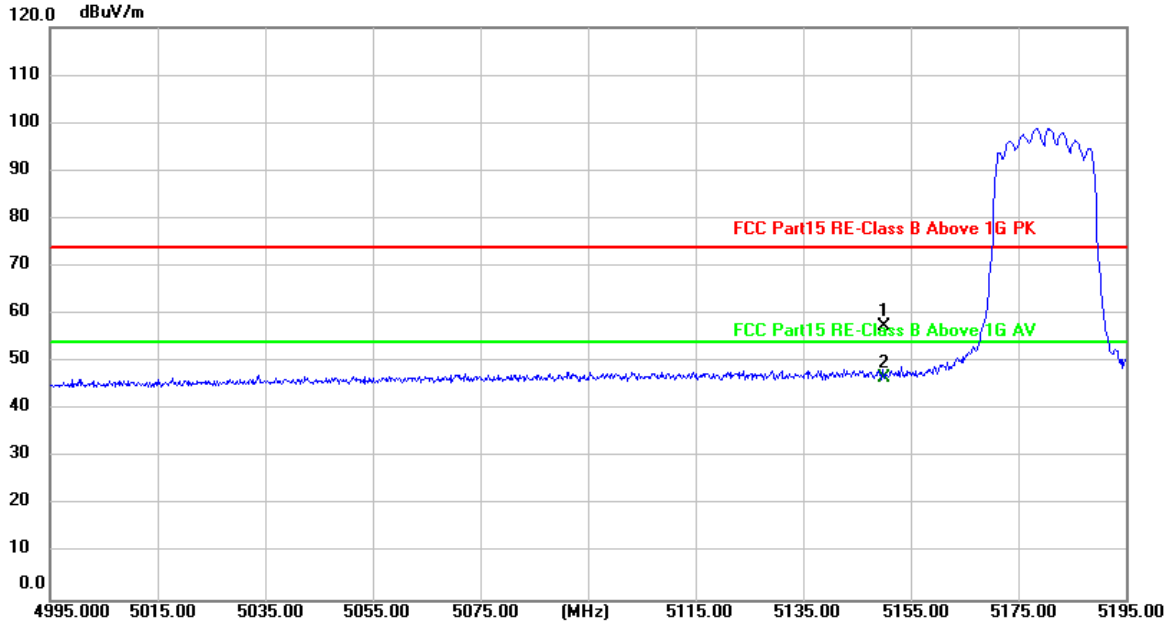


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	20.17	37.15	57.32	74.00	-16.68	peak
2 *	5150.000	10.46	37.15	47.61	54.00	-6.39	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



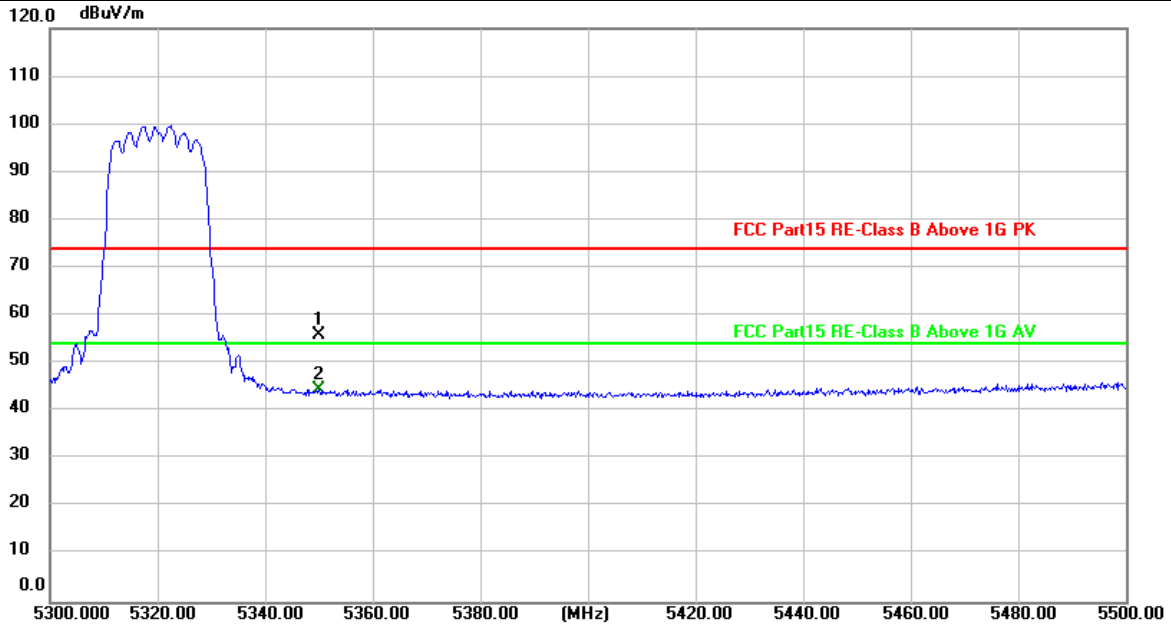
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	20.23	37.15	57.38	74.00	-16.62	peak
2 *	5150.000	9.58	37.15	46.73	54.00	-7.27	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



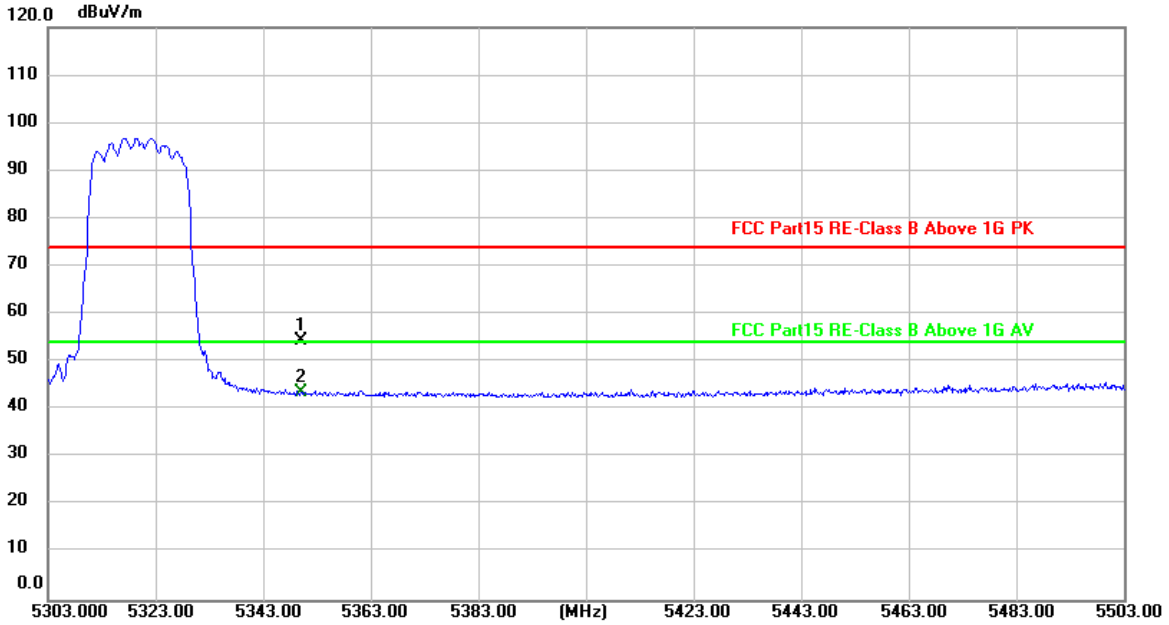
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	18.61	37.41	56.02	74.00	-17.98	peak
2 *	5350.000	7.00	37.41	44.41	54.00	-9.59	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5320MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	17.06	37.41	54.47	74.00	-19.53	peak
2 *	5350.000	6.18	37.41	43.59	54.00	-10.41	AVG

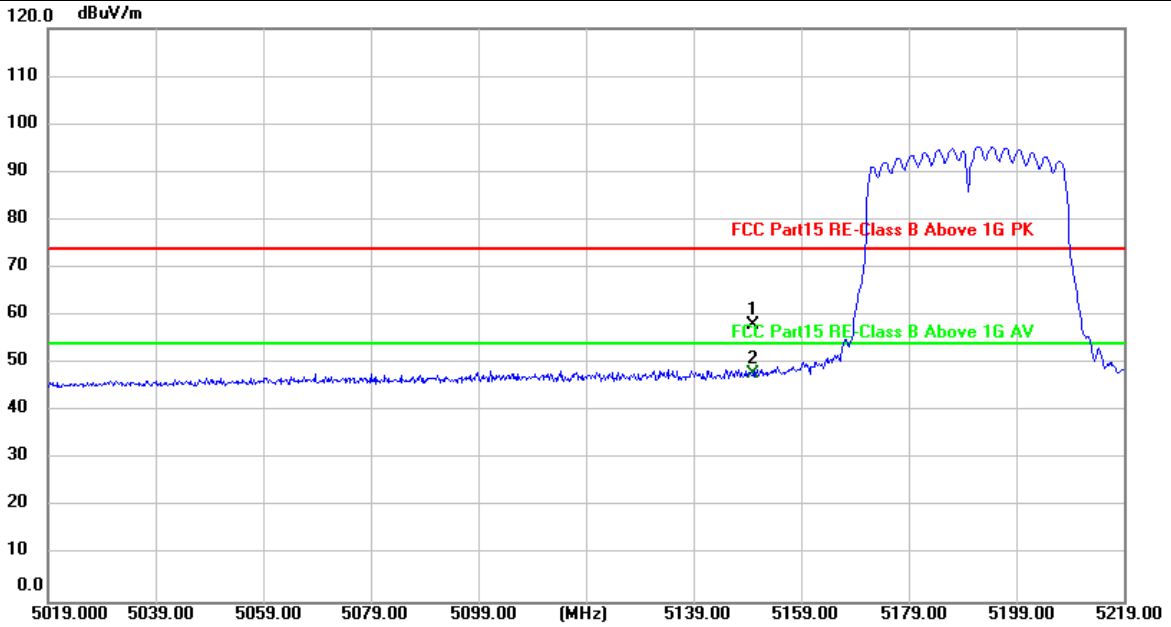
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

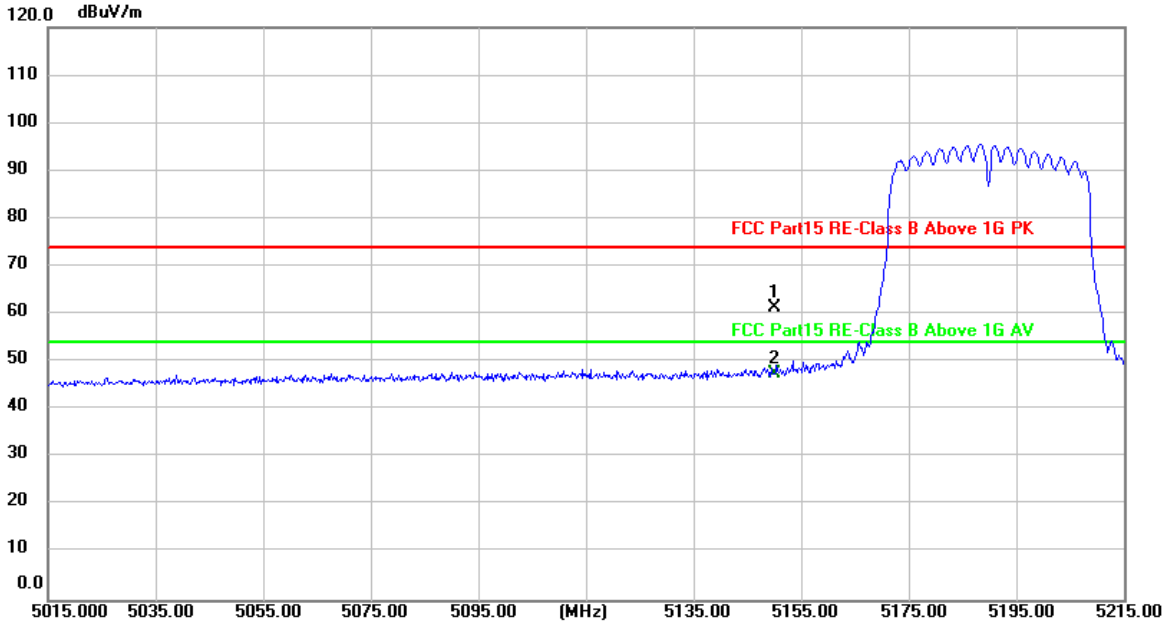


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	21.04	37.15	58.19	74.00	-15.81	peak
2 *	5150.000	10.77	37.15	47.92	54.00	-6.08	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



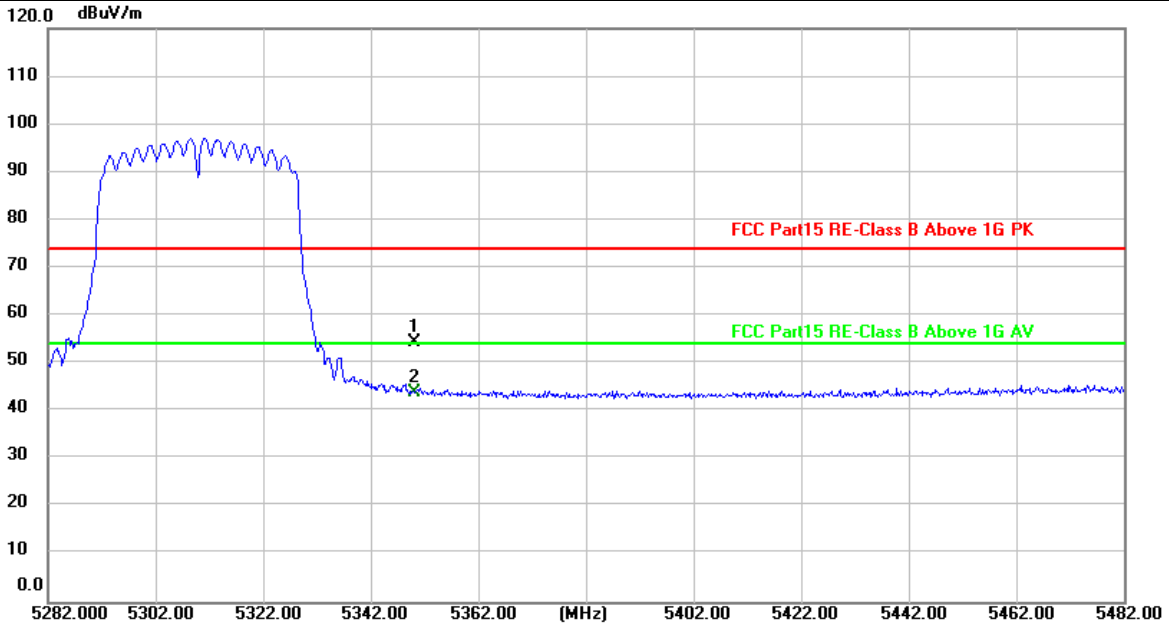
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	24.29	37.15	61.44	74.00	-12.56	peak
2 *	5150.000	10.37	37.15	47.52	54.00	-6.48	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



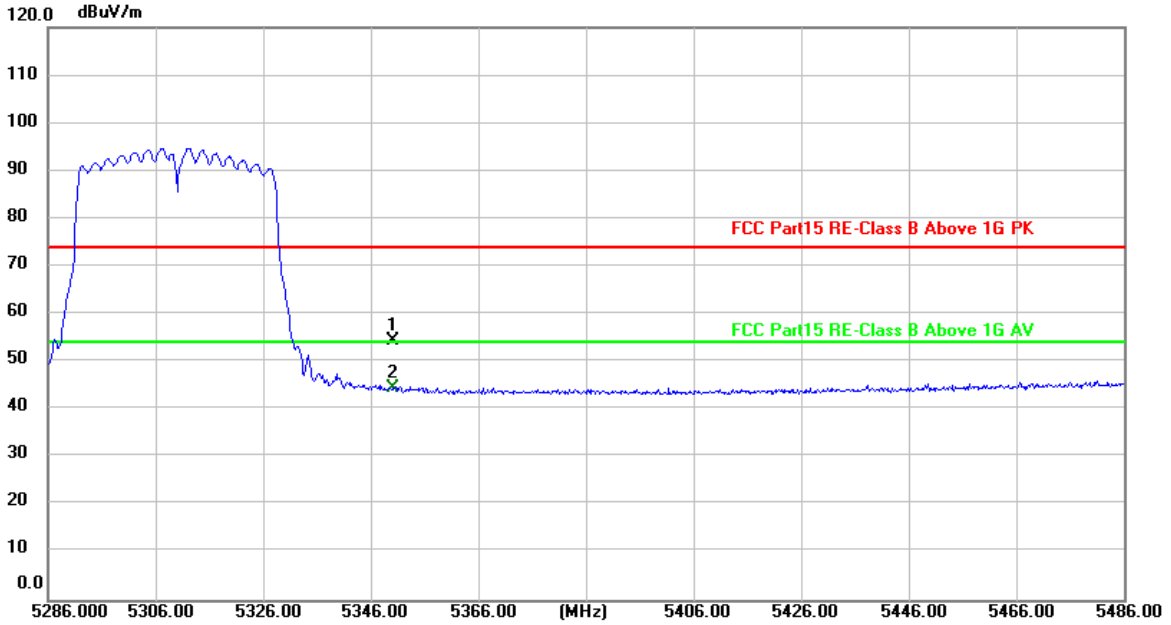
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	17.11	37.41	54.52	74.00	-19.48	peak
2 *	5350.000	6.51	37.41	43.92	54.00	-10.08	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 5310MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	16.91	37.41	54.32	74.00	-19.68	peak
2 *	5350.000	7.03	37.41	44.44	54.00	-9.56	AVG

Remarks:

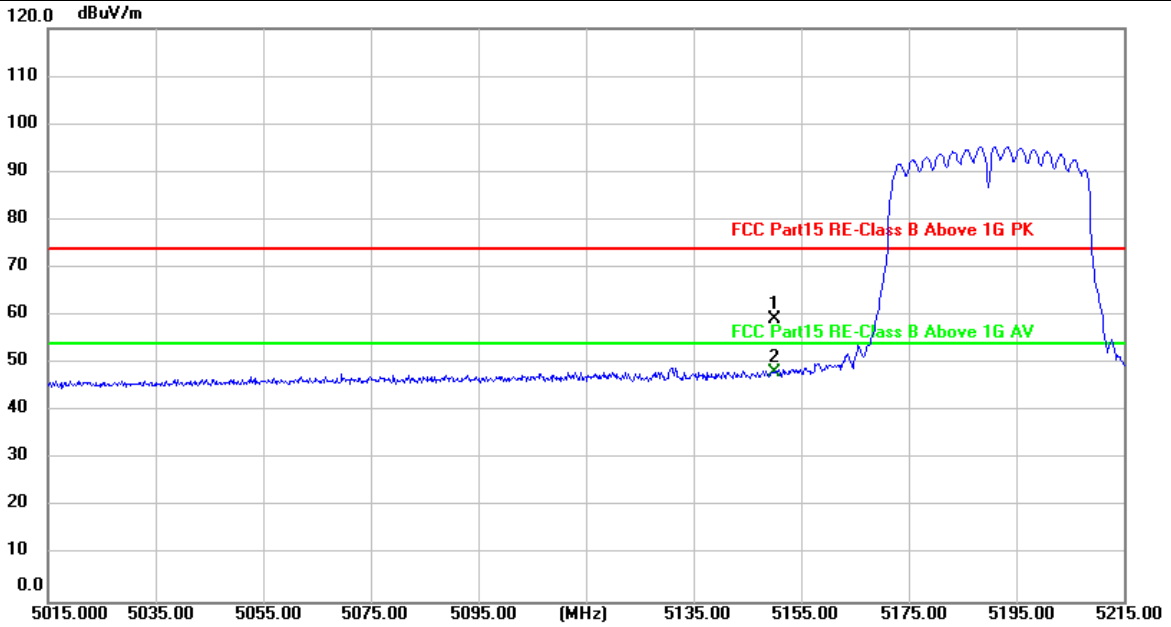
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



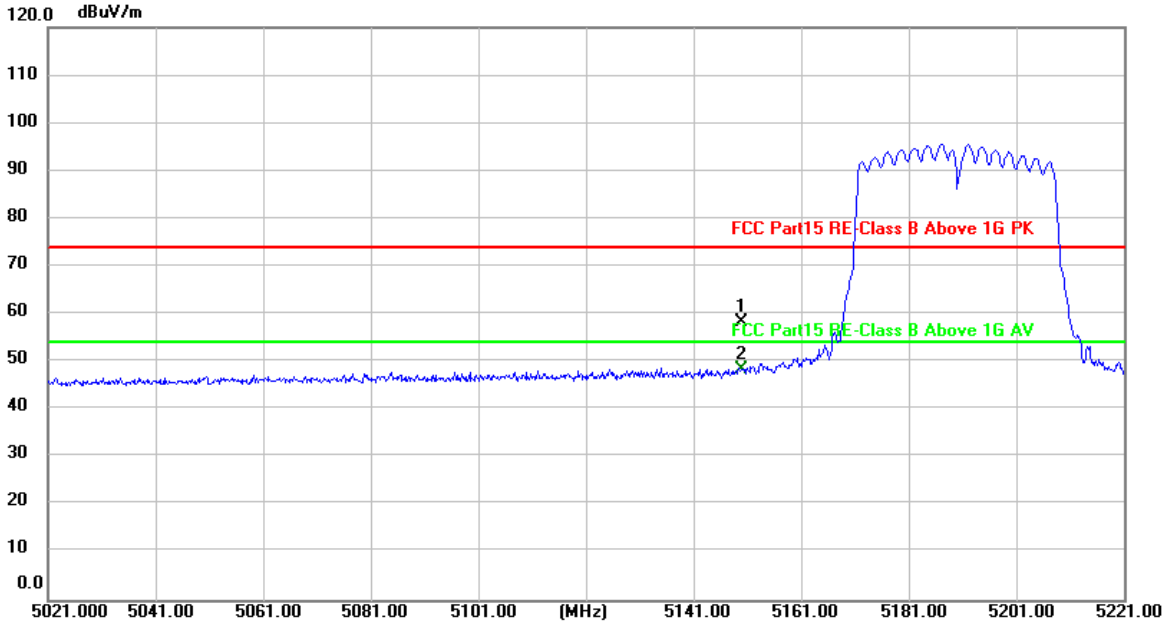
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	22.03	37.15	59.18	74.00	-14.82	peak
2 *	5150.000	10.86	37.15	48.01	54.00	-5.99	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



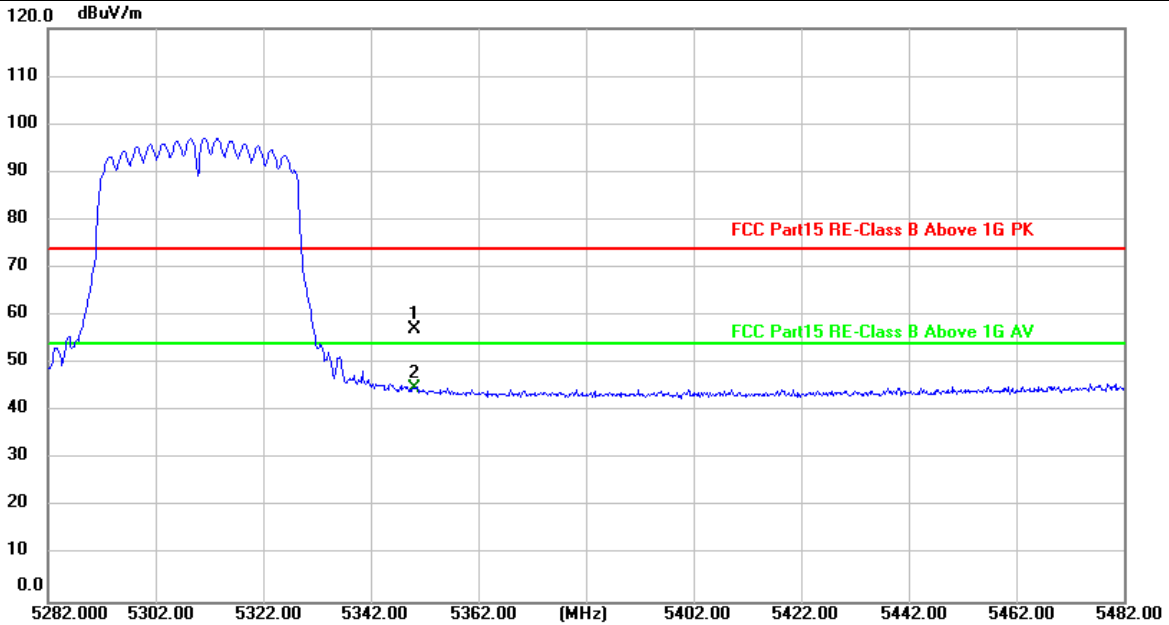
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	21.21	37.15	58.36	74.00	-15.64	peak
2 *	5150.000	11.37	37.15	48.52	54.00	-5.48	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



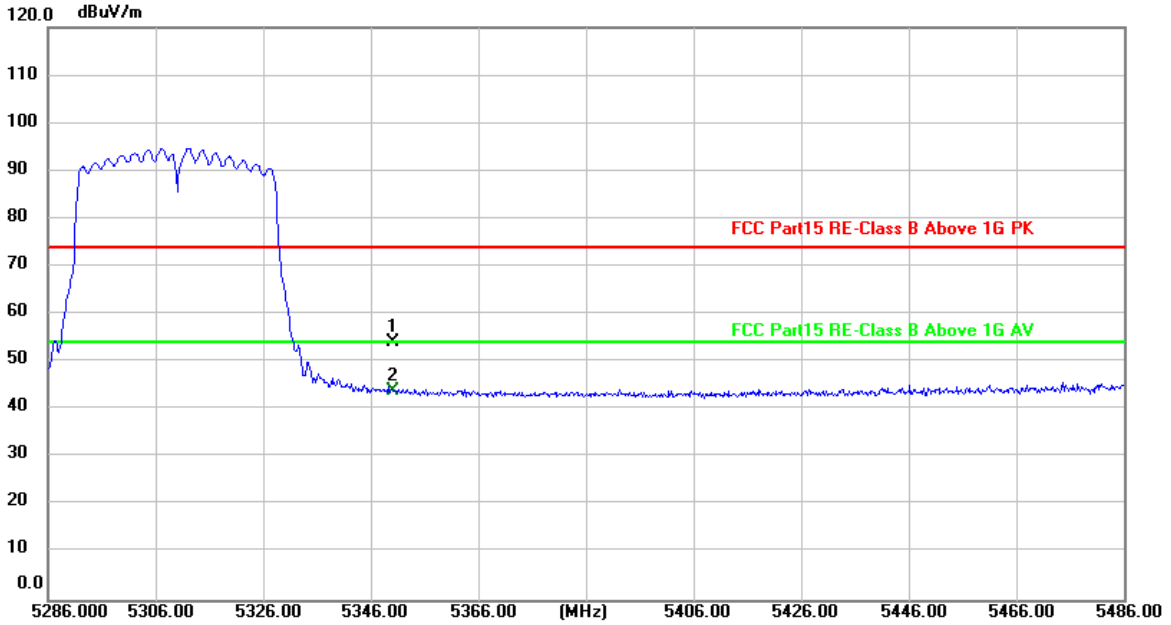
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	19.72	37.41	57.13	74.00	-16.87	peak
2 *	5350.000	7.35	37.41	44.76	54.00	-9.24	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5310MHz (U-NII-2A)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



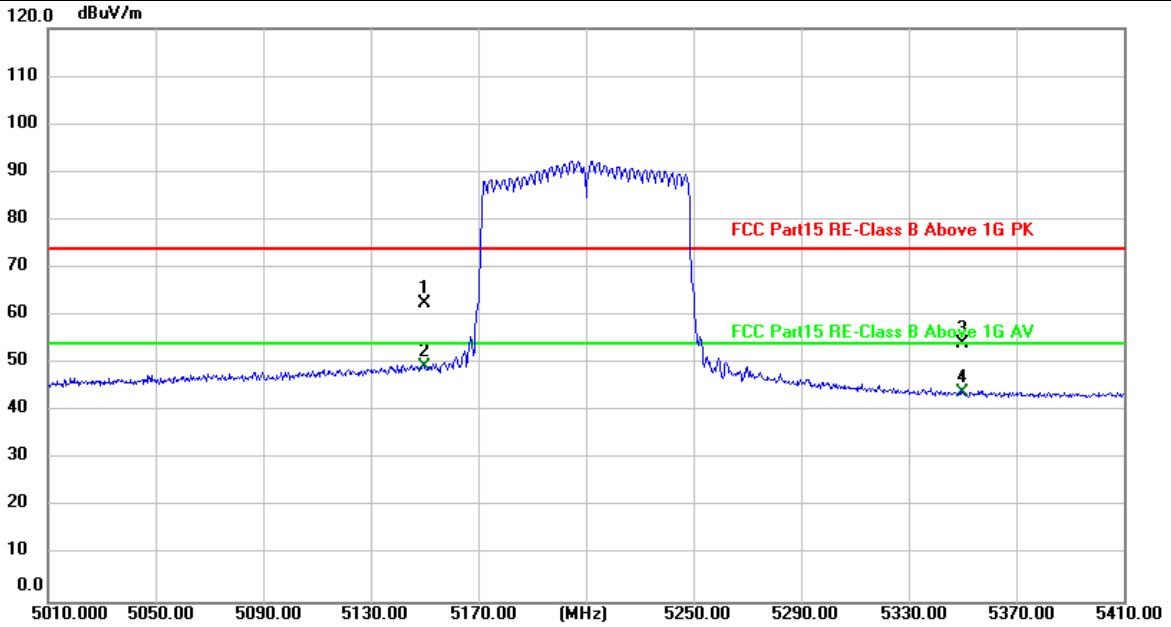
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	16.79	37.41	54.20	74.00	-19.80	peak
2 *	5350.000	6.68	37.41	44.09	54.00	-9.91	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



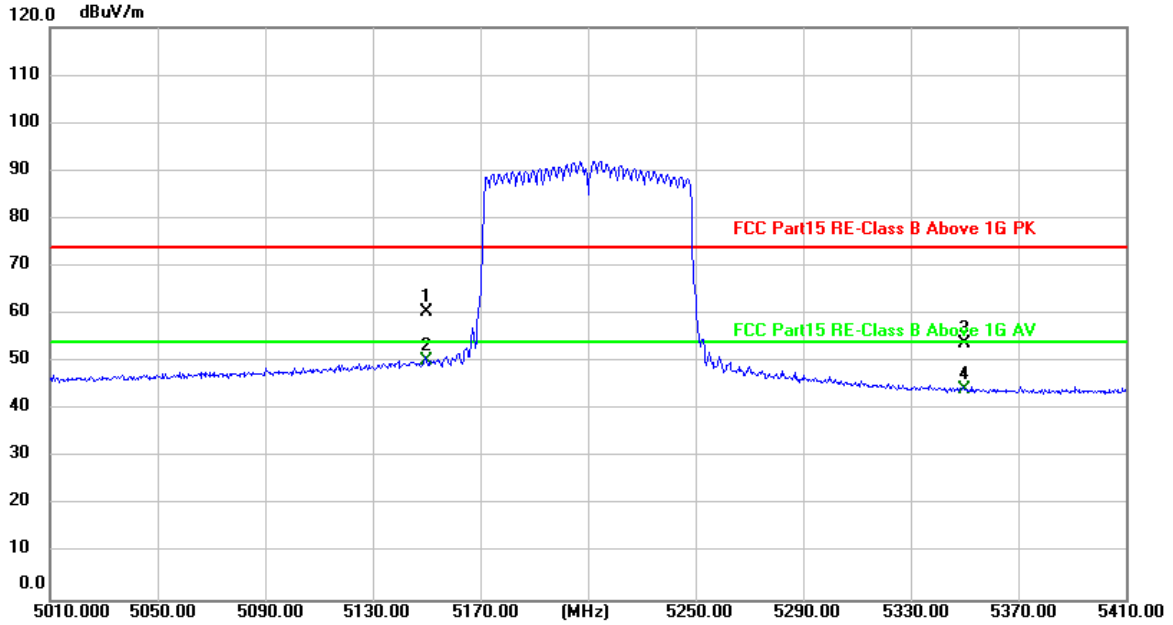
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	25.44	37.15	62.59	74.00	-11.41	peak
2 *	5150.000	12.21	37.15	49.36	54.00	-4.64	AVG
3	5350.000	16.63	37.41	54.04	74.00	-19.96	peak
4	5350.000	6.52	37.41	43.93	54.00	-10.07	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



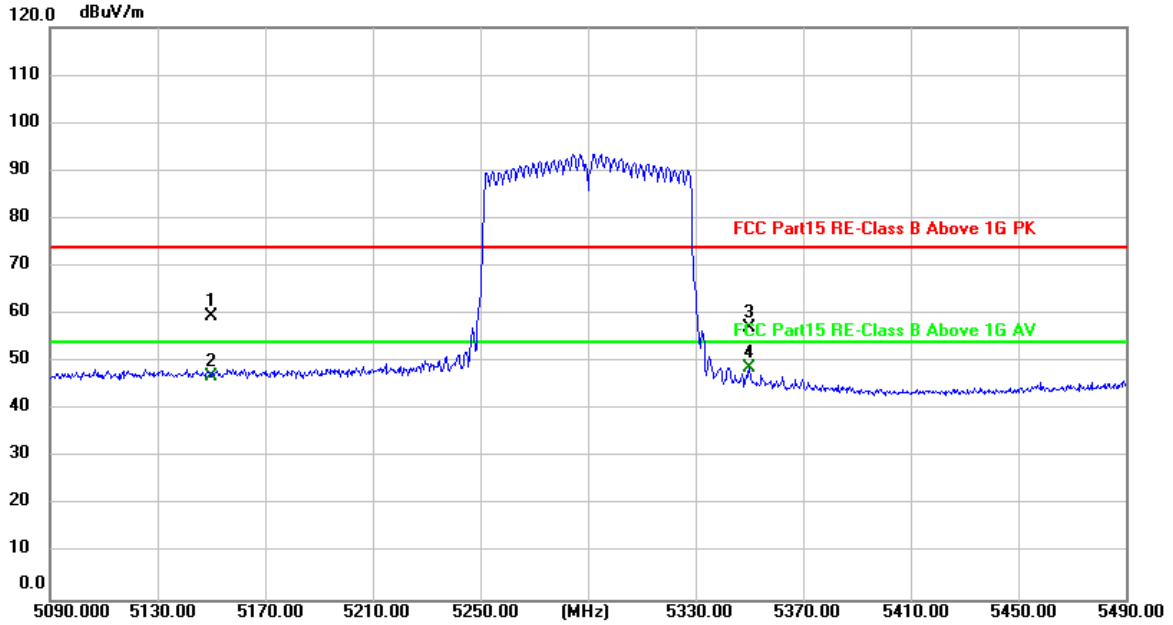
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	23.35	37.15	60.50	74.00	-13.50	peak
2 *	5150.000	13.05	37.15	50.20	54.00	-3.80	AVG
3	5350.000	16.58	37.41	53.99	74.00	-20.01	peak
4	5350.000	6.84	37.41	44.25	54.00	-9.75	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	22.50	37.15	59.65	74.00	-14.35	peak
2	5150.000	9.81	37.15	46.96	54.00	-7.04	AVG
3	5350.000	19.87	37.41	57.28	74.00	-16.72	peak
4 *	5350.000	11.21	37.41	48.62	54.00	-5.38	AVG

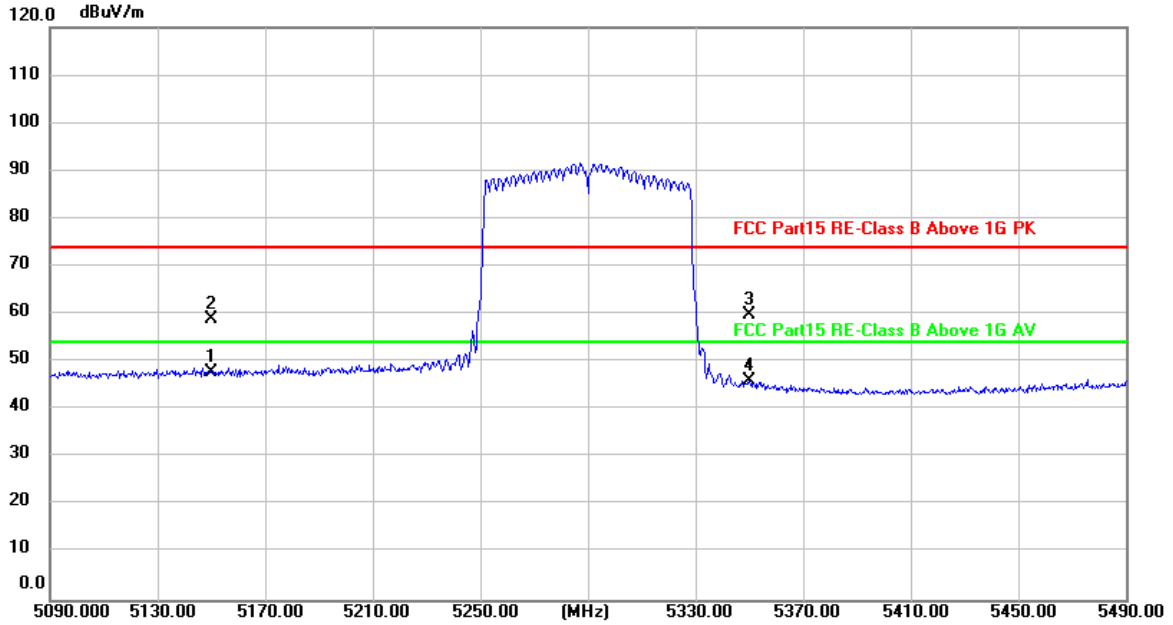
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5290MHz (U-NII-2A)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	10.63	37.15	47.78	74.00	-26.22	peak
2	5150.000	21.73	37.15	58.88	74.00	-15.12	peak
3 *	5350.000	22.58	37.41	59.99	74.00	-14.01	peak
4	5350.000	8.76	37.41	46.17	74.00	-27.83	peak

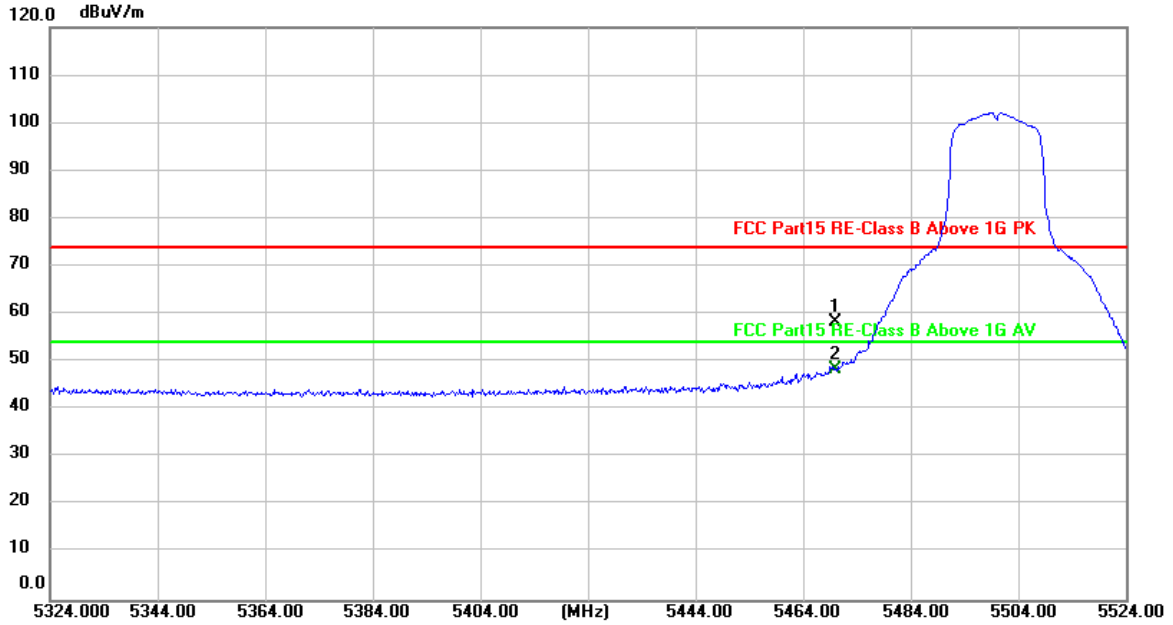
Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value





Ant No.:	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



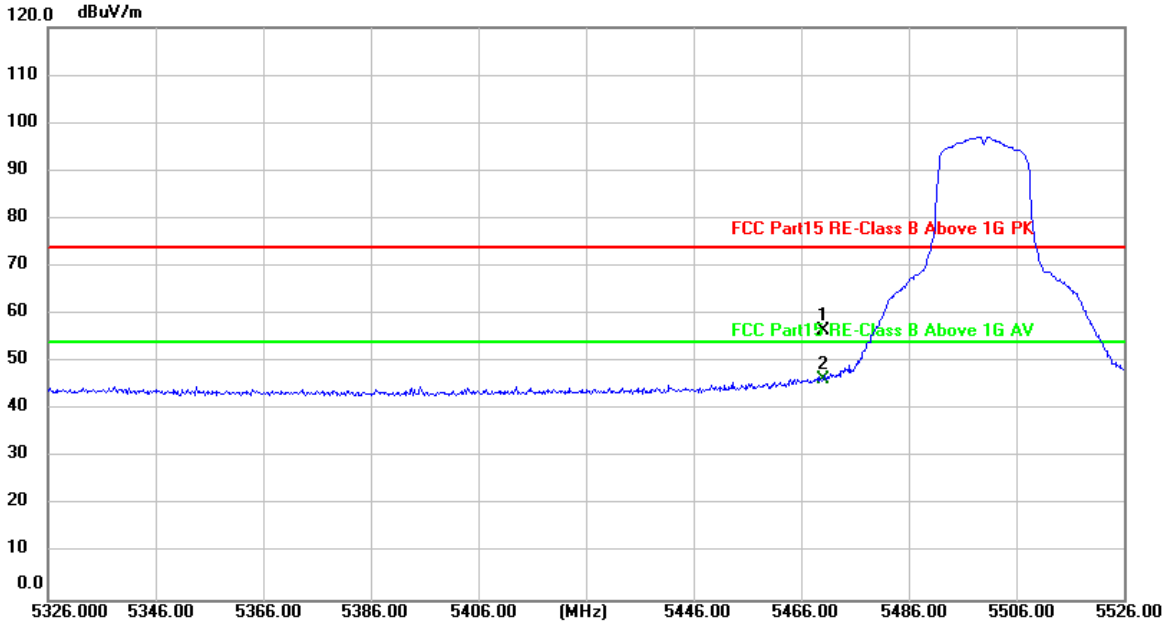
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	20.78	37.57	58.35	74.00	-15.65	peak
2 *	5470.000	10.95	37.57	48.52	54.00	-5.48	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.94	37.57	56.51	74.00	-17.49	peak
2 *	5470.000	8.77	37.57	46.34	54.00	-7.66	AVG

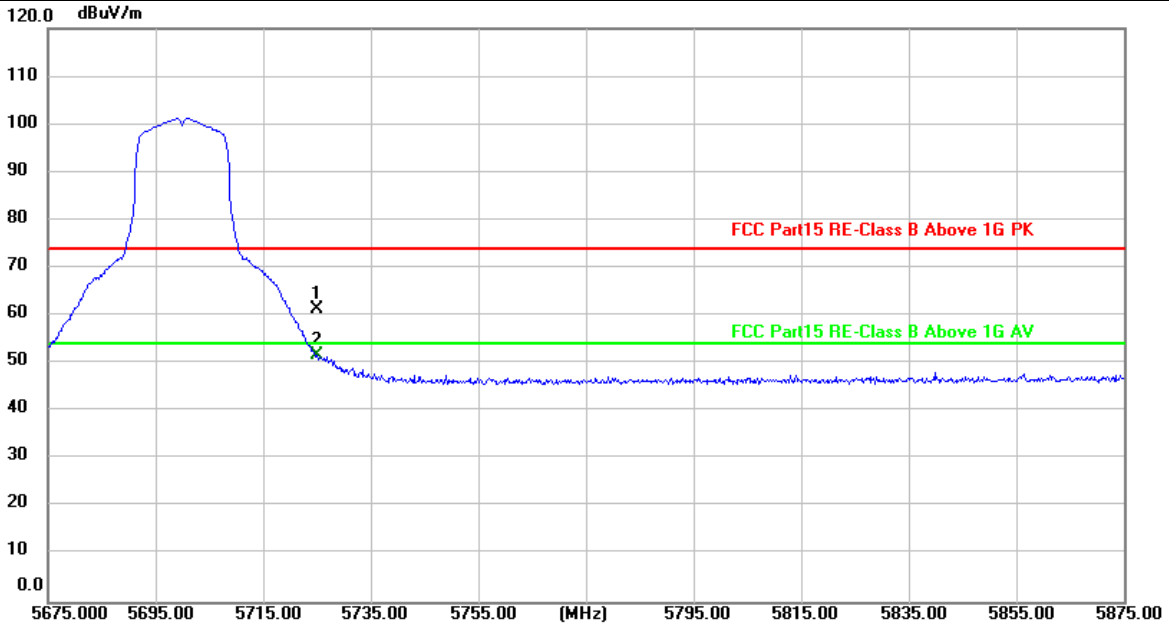
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11a Mode 5700MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

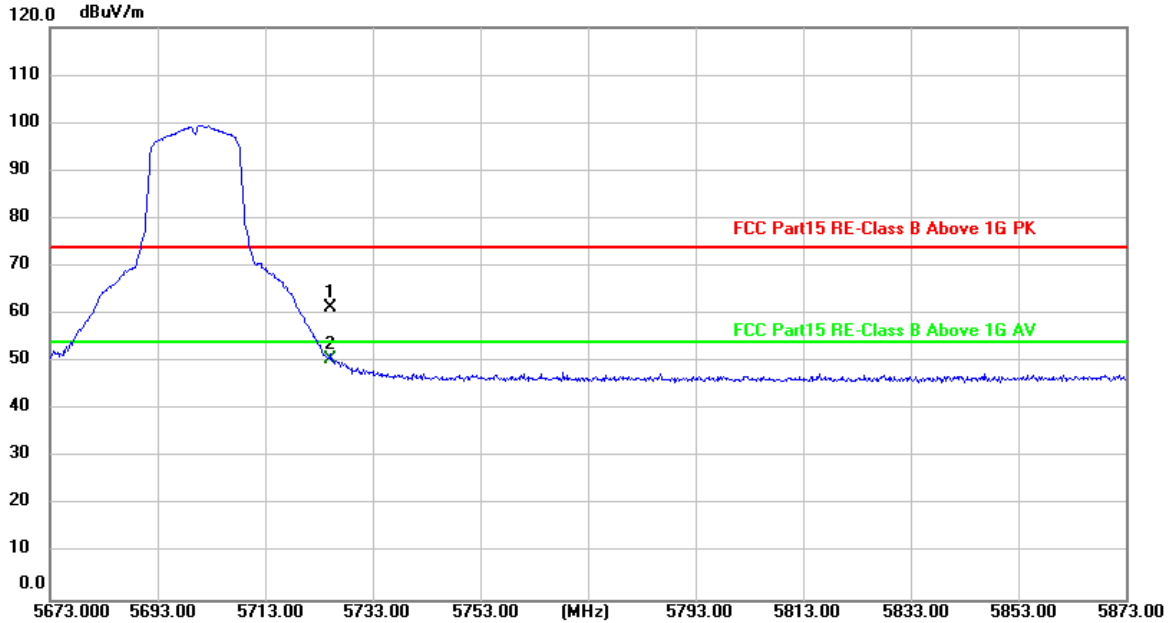


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	23.34	38.07	61.41	74.00	-12.59	peak
2 *	5725.000	13.73	38.07	51.80	54.00	-2.20	AVG

Remarks:  
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2. Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5700MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



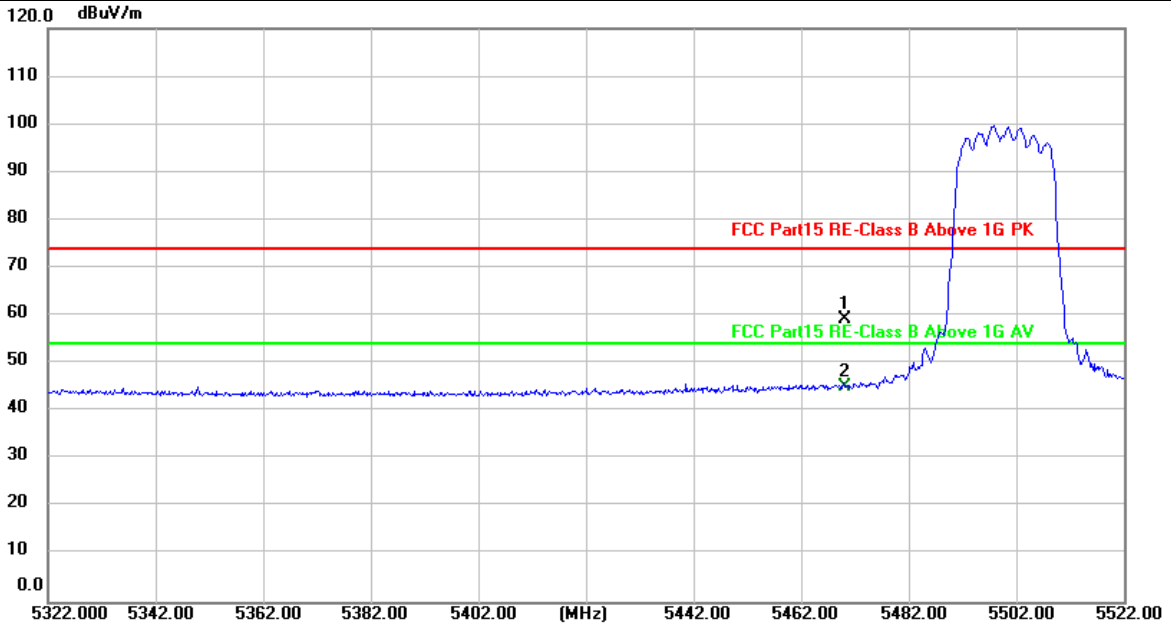
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	23.37	38.07	61.44	74.00	-12.56	peak
2 *	5725.000	12.50	38.07	50.57	54.00	-3.43	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

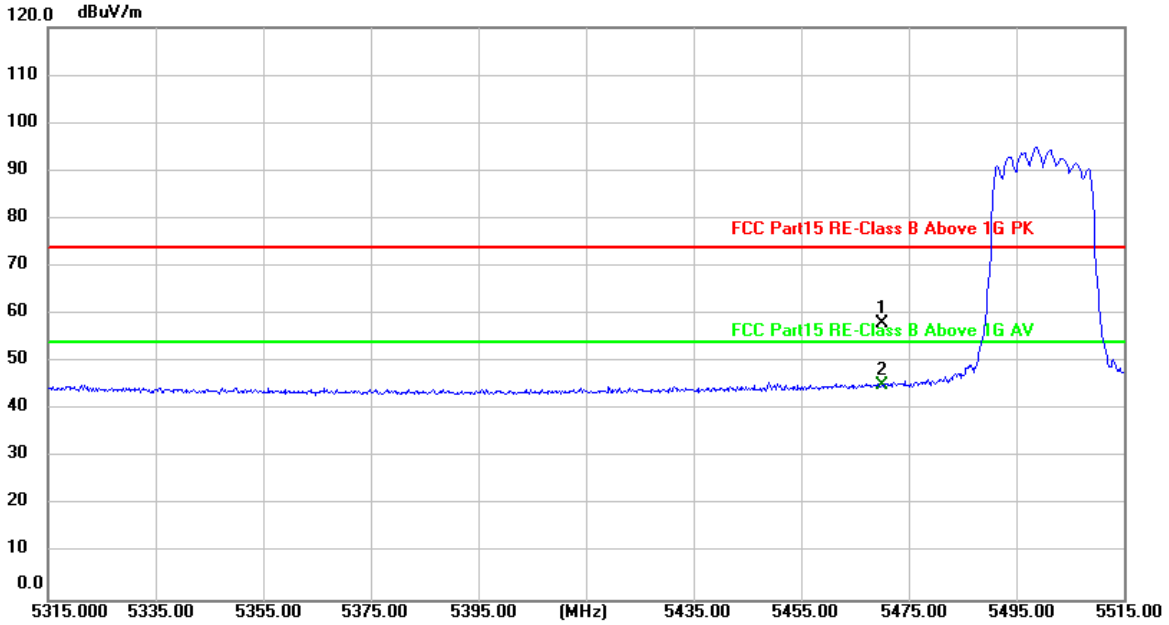


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	21.68	37.57	59.25	74.00	-14.75	peak
2 *	5470.000	7.48	37.57	45.05	54.00	-8.95	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	20.35	37.57	57.92	74.00	-16.08	peak
2 *	5470.000	7.44	37.57	45.01	54.00	-8.99	AVG

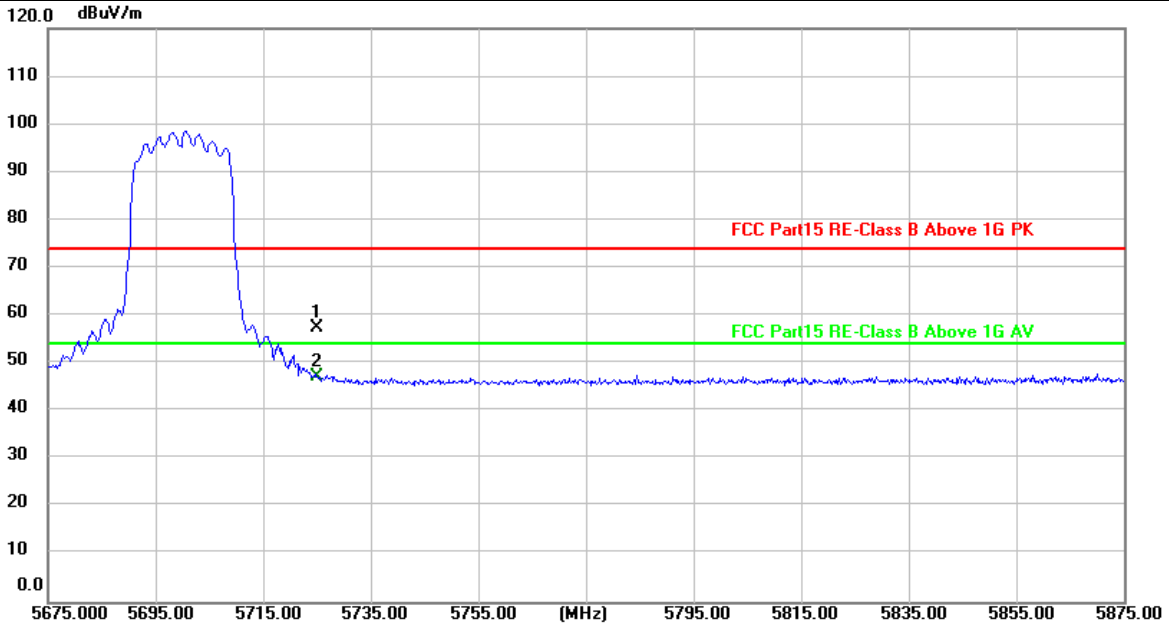
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5700MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



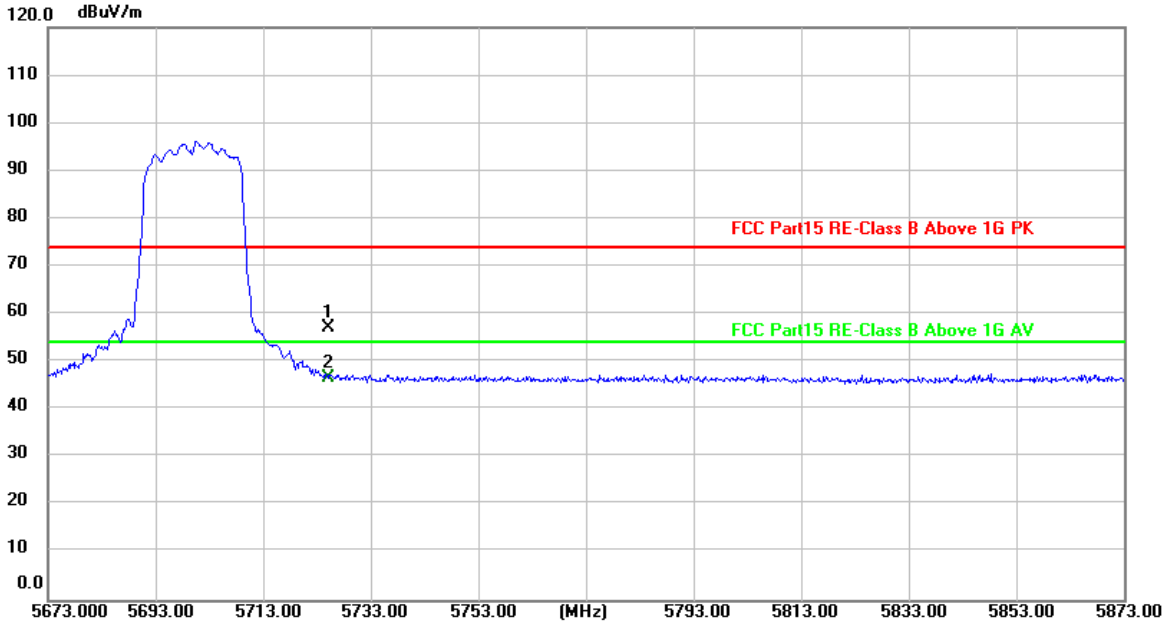
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	19.29	38.07	57.36	74.00	-16.64	peak
2 *	5725.000	9.15	38.07	47.22	54.00	-6.78	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5700MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	19.22	38.07	57.29	74.00	-16.71	peak
2 *	5725.000	8.59	38.07	46.66	54.00	-7.34	AVG

Remarks:

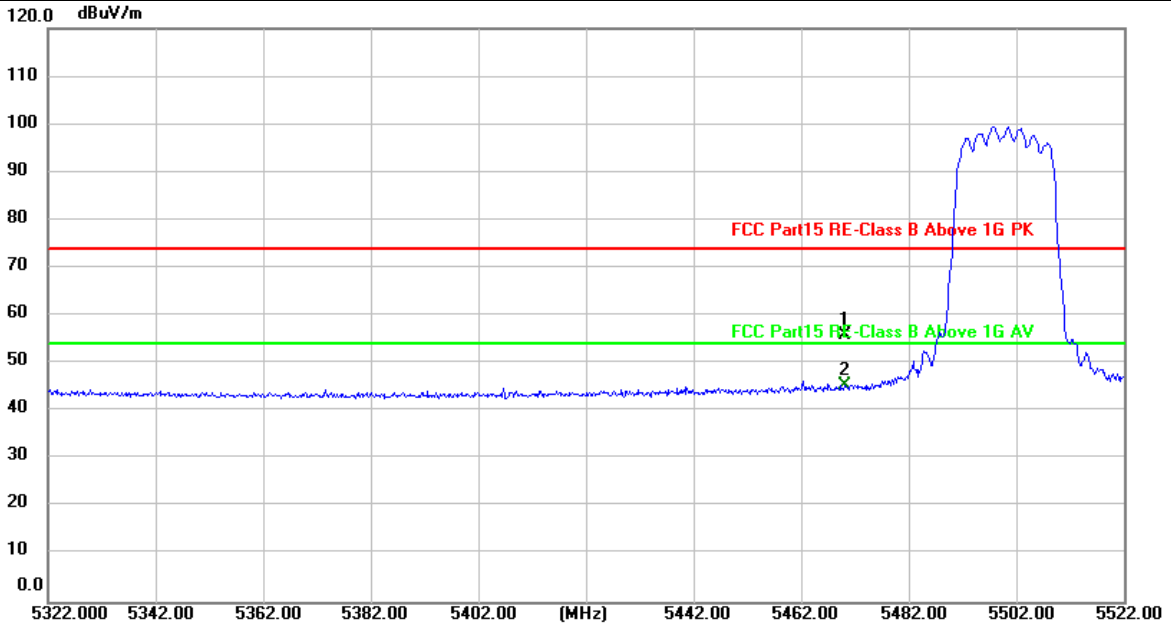
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

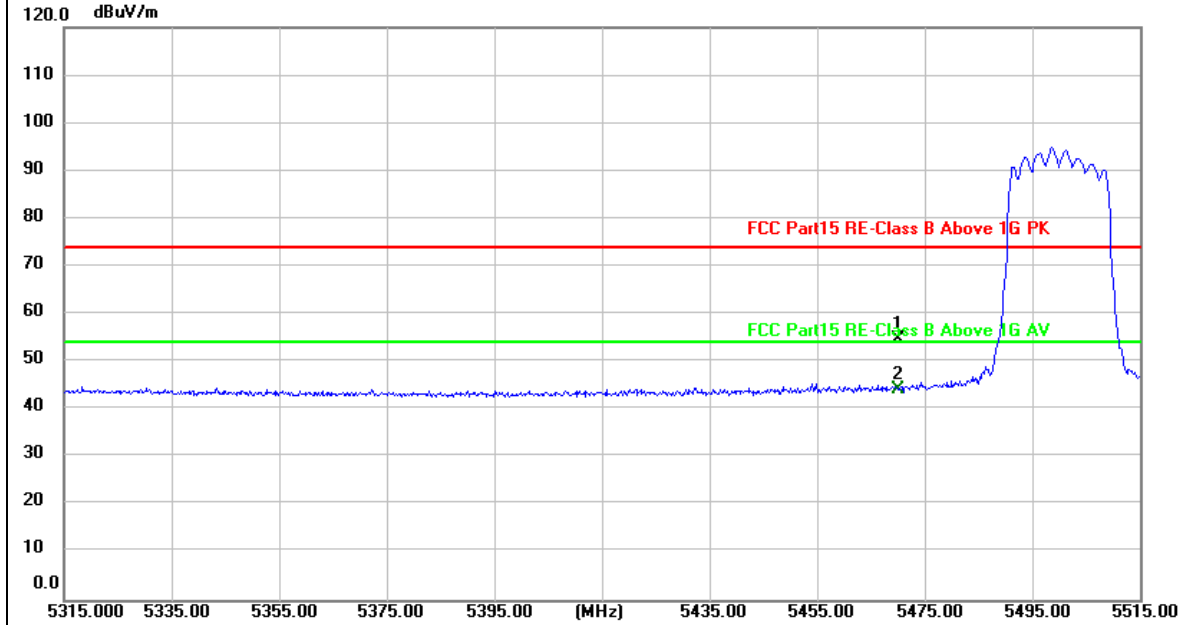


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.34	37.57	55.91	74.00	-18.09	peak
2 *	5470.000	7.84	37.57	45.41	54.00	-8.59	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5500MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



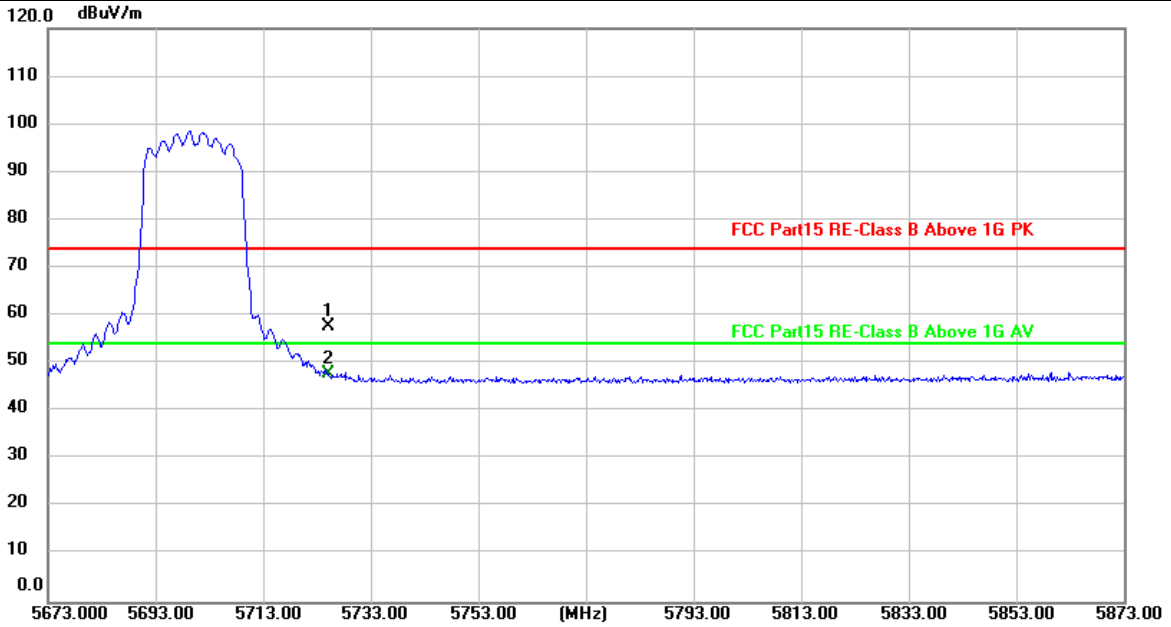
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	17.15	37.57	54.72	74.00	-19.28	peak
2 *	5470.000	6.79	37.57	44.36	54.00	-9.64	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

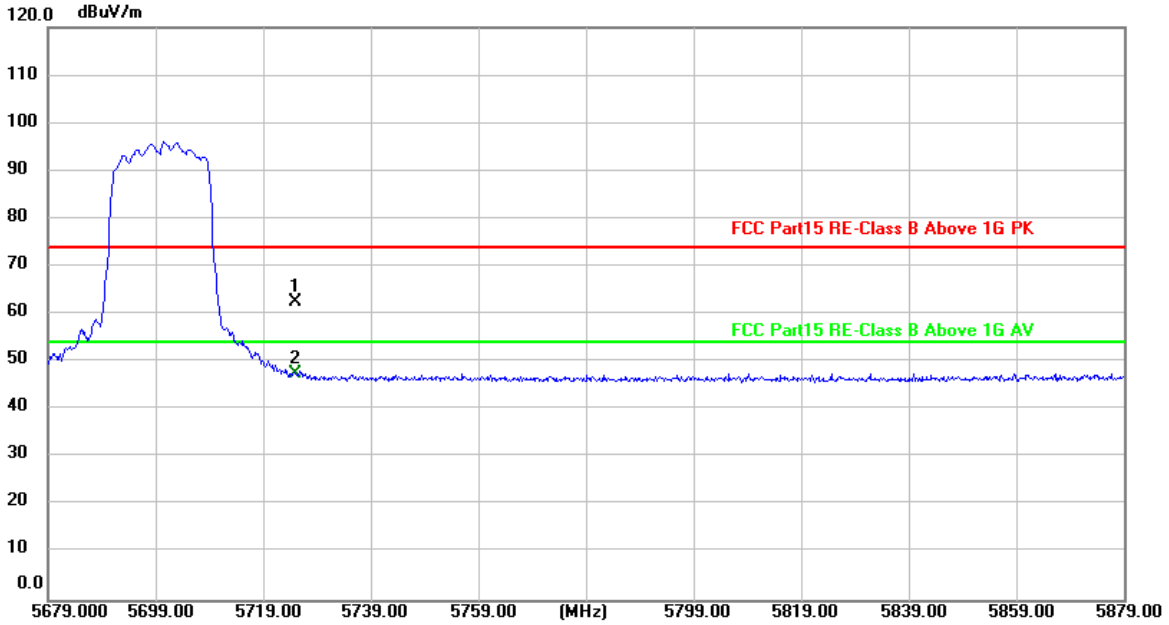


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	19.67	38.07	57.74	74.00	-16.26	peak
2 *	5725.000	9.79	38.07	47.86	54.00	-6.14	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5700MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	24.59	38.07	62.66	74.00	-11.34	peak
2 *	5725.000	9.41	38.07	47.48	54.00	-6.52	AVG

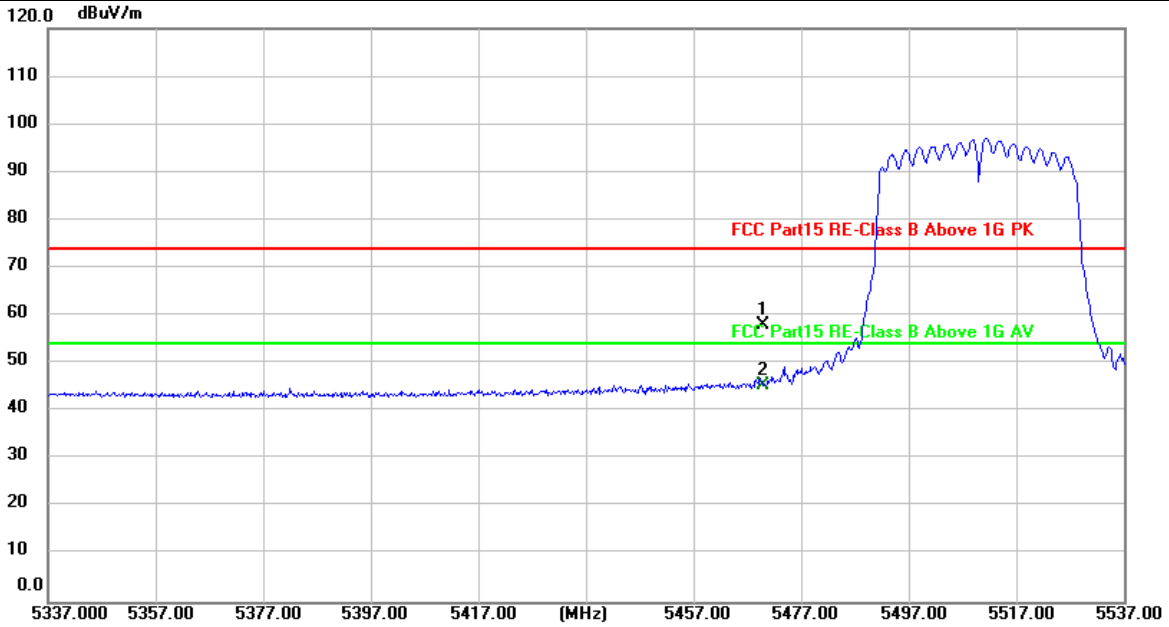
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 5510MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

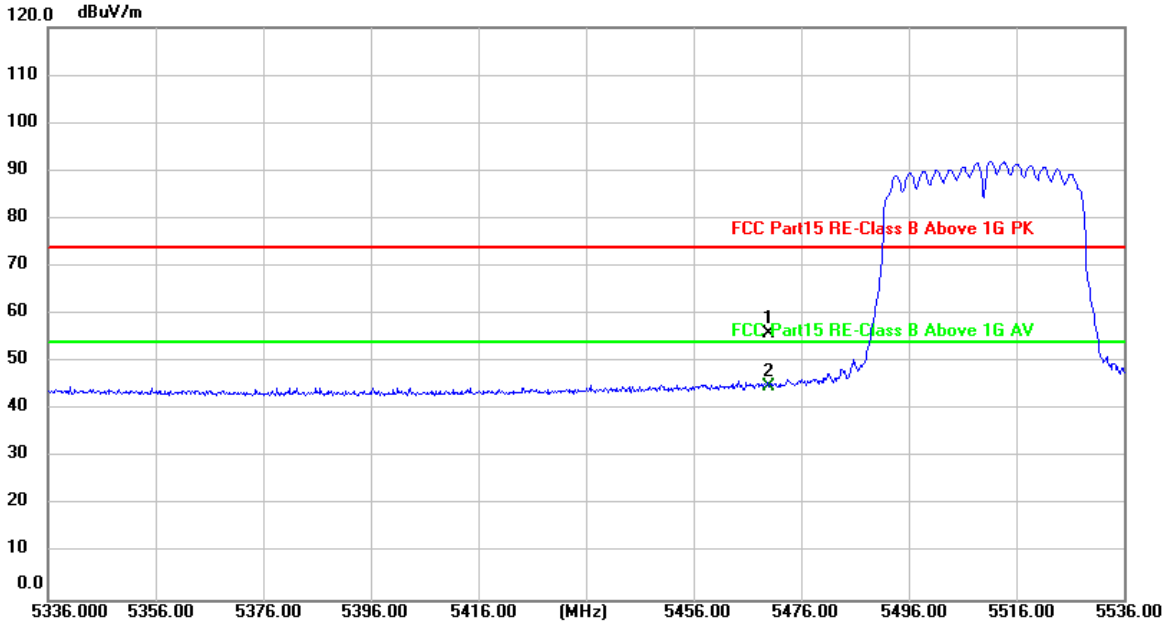


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	20.34	37.57	57.91	74.00	-16.09	peak
2 *	5470.000	8.01	37.57	45.58	54.00	-8.42	AVG

Remarks:  
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 5510MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.38	37.57	55.95	74.00	-18.05	peak
2 *	5470.000	7.27	37.57	44.84	54.00	-9.16	AVG

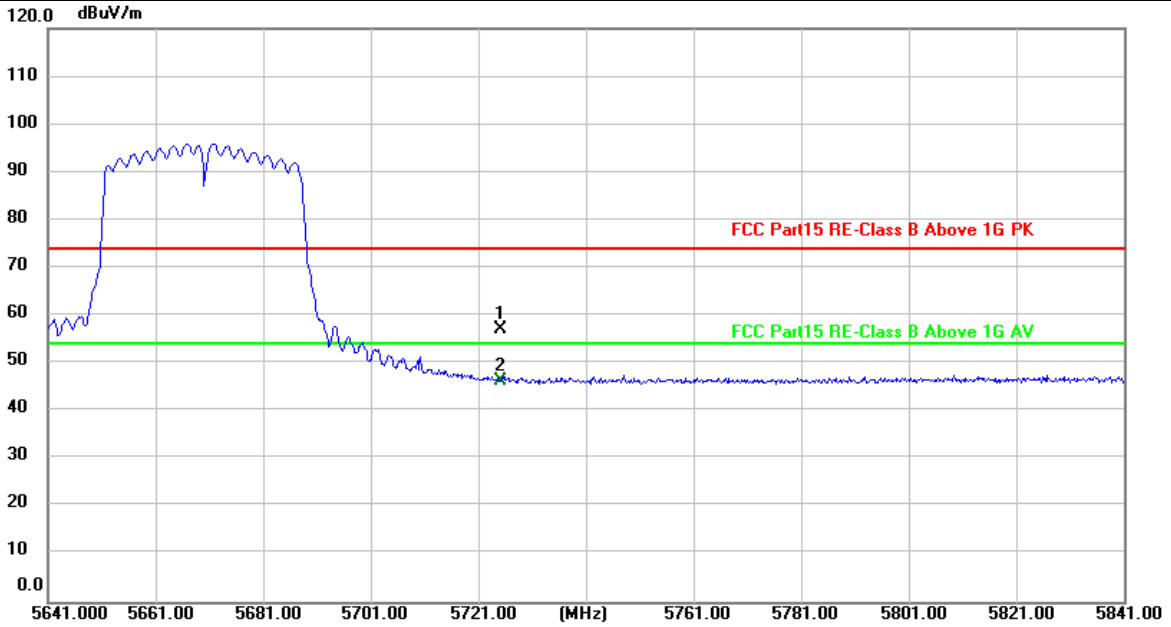
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5670MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.

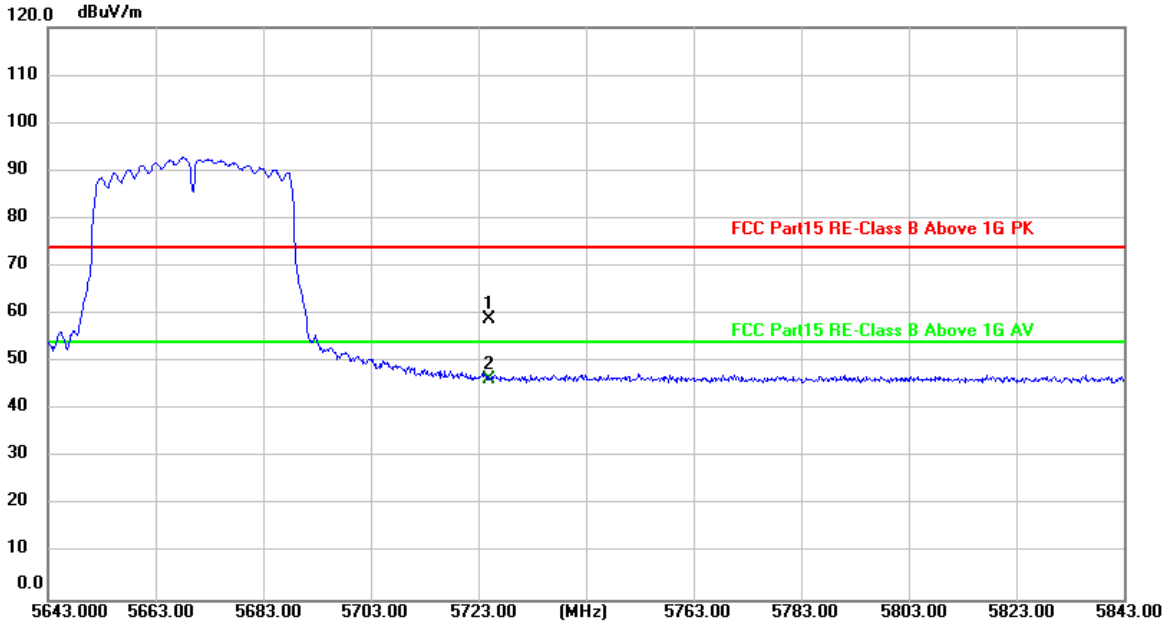


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	19.04	38.07	57.11	74.00	-16.89	peak
2 *	5725.000	8.41	38.07	46.48	54.00	-7.52	AVG

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 5670MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	20.93	38.07	59.00	74.00	-15.00	peak
2 *	5725.000	8.24	38.07	46.31	54.00	-7.69	AVG

Remarks:

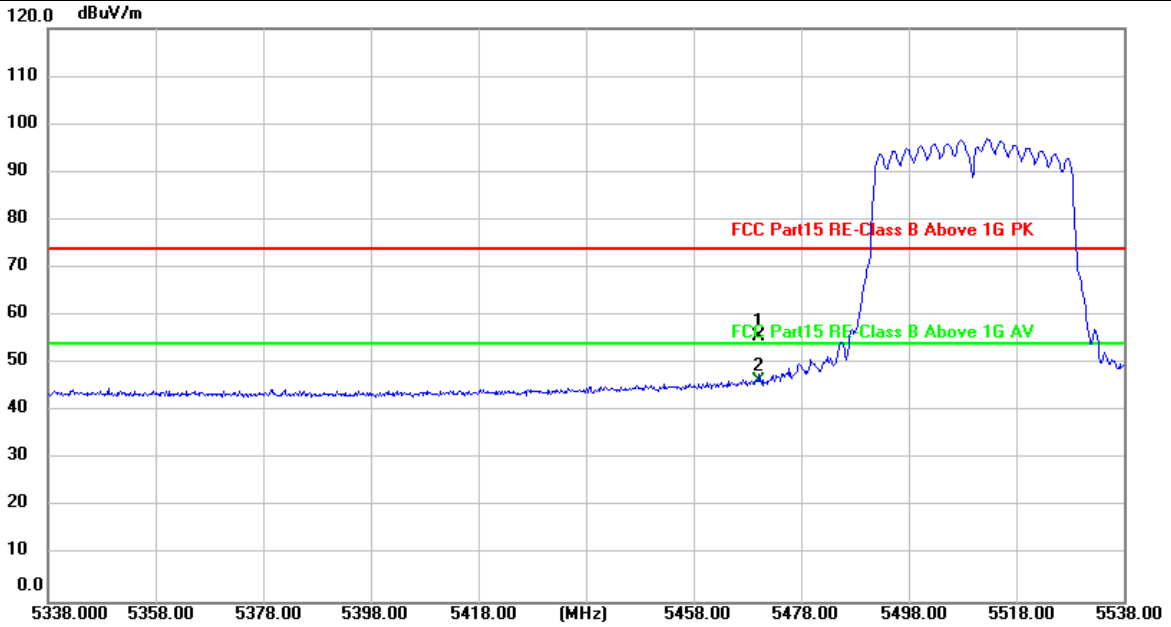
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



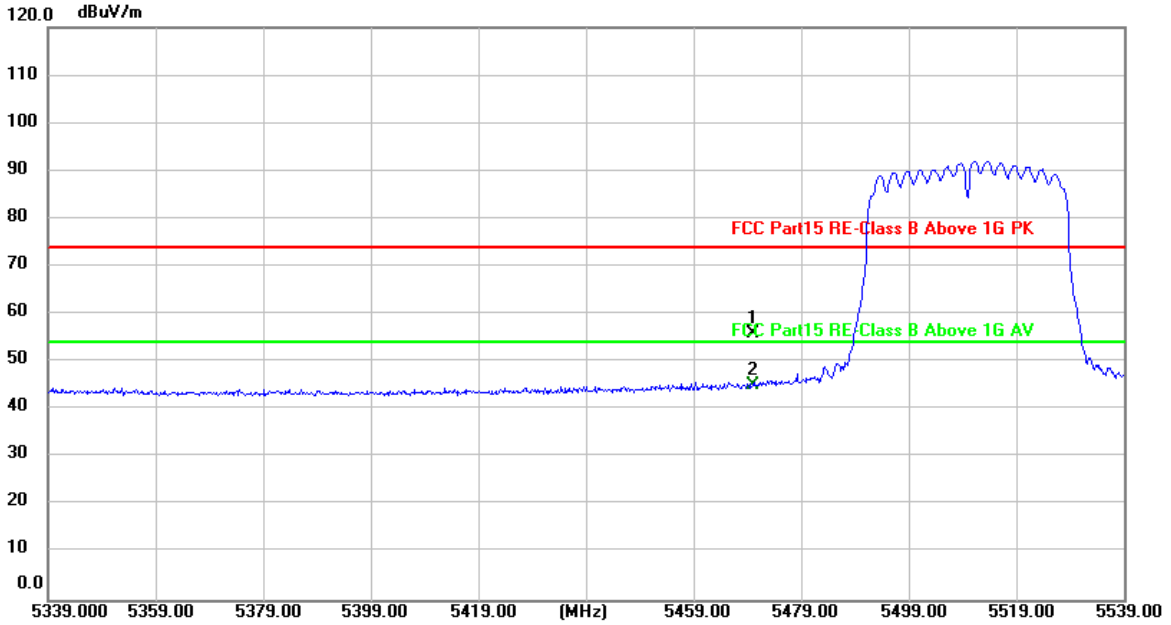
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.21	37.57	55.78	74.00	-18.22	peak
2 *	5470.000	8.90	37.57	46.47	54.00	-7.53	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5510MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



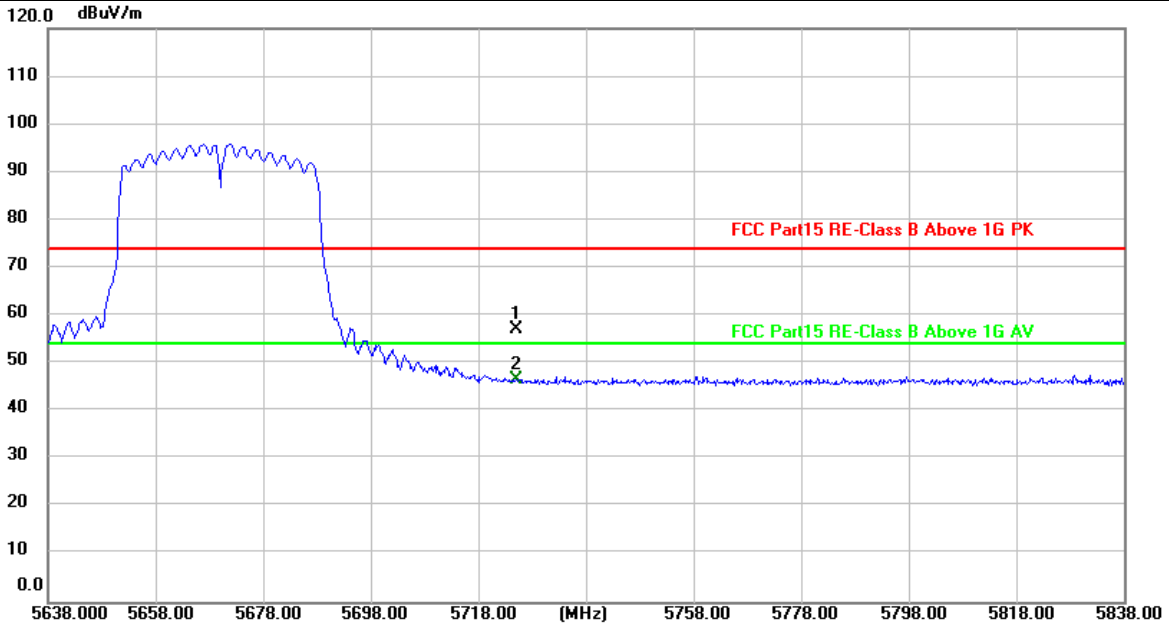
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.50	37.57	56.07	74.00	-17.93	peak
2 *	5470.000	7.59	37.57	45.16	54.00	-8.84	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



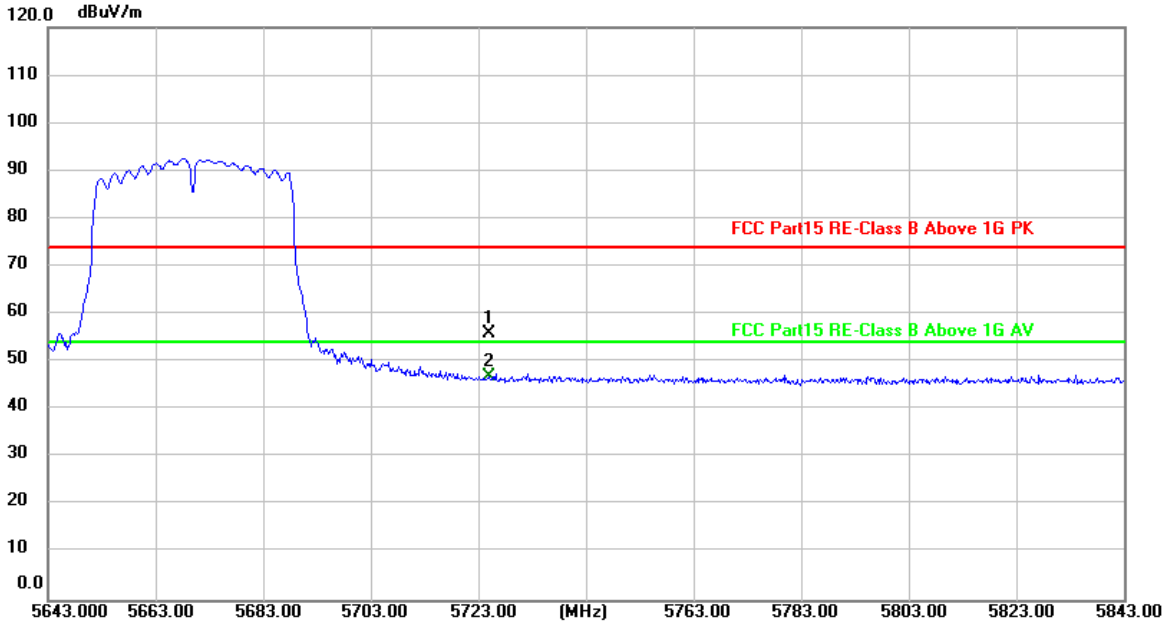
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	19.20	38.07	57.27	74.00	-16.73	peak
2 *	5725.000	8.71	38.07	46.78	54.00	-7.22	AVG

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5670MHz (U-NII-2C)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



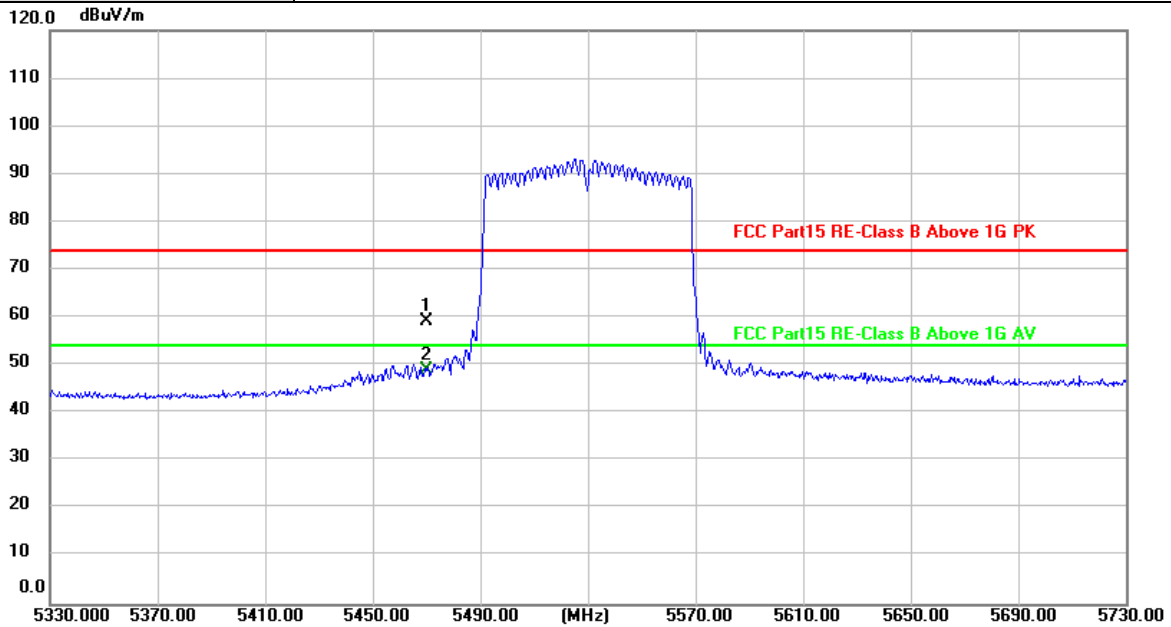
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	17.82	38.07	55.89	74.00	-18.11	peak
2 *	5725.000	8.81	38.07	46.88	54.00	-7.12	AVG

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

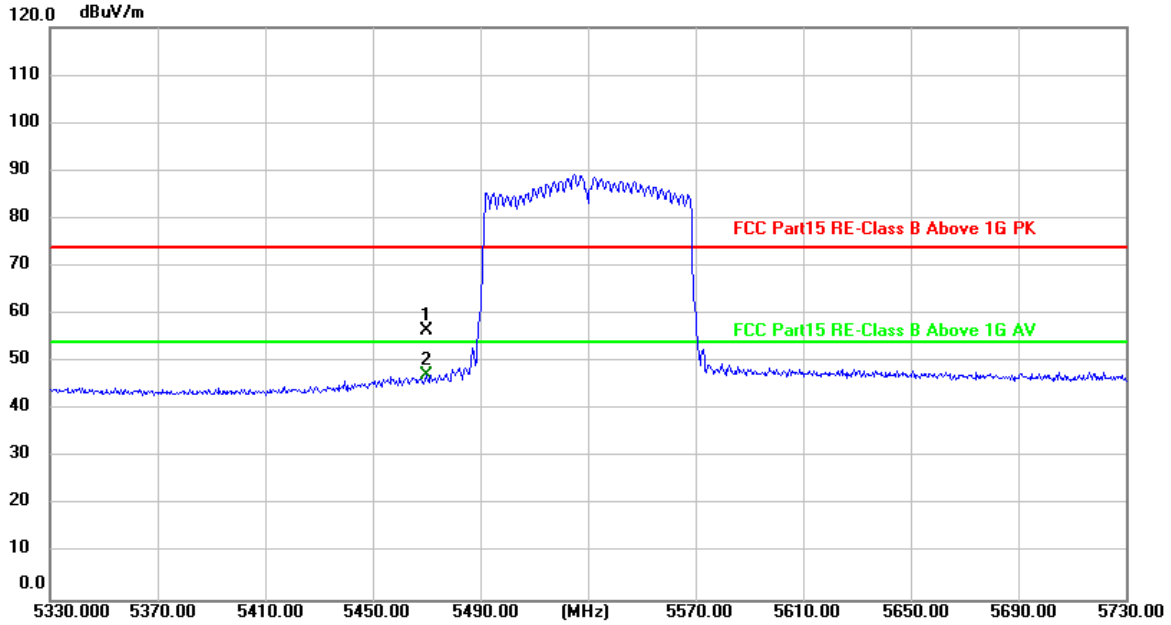


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	21.62	37.57	59.19	74.00	-14.81	peak
2 *	5470.000	11.49	37.57	49.06	54.00	-4.94	AVG

Remarks:  
 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT80) Mode 5530MHz (U-NII-2C)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



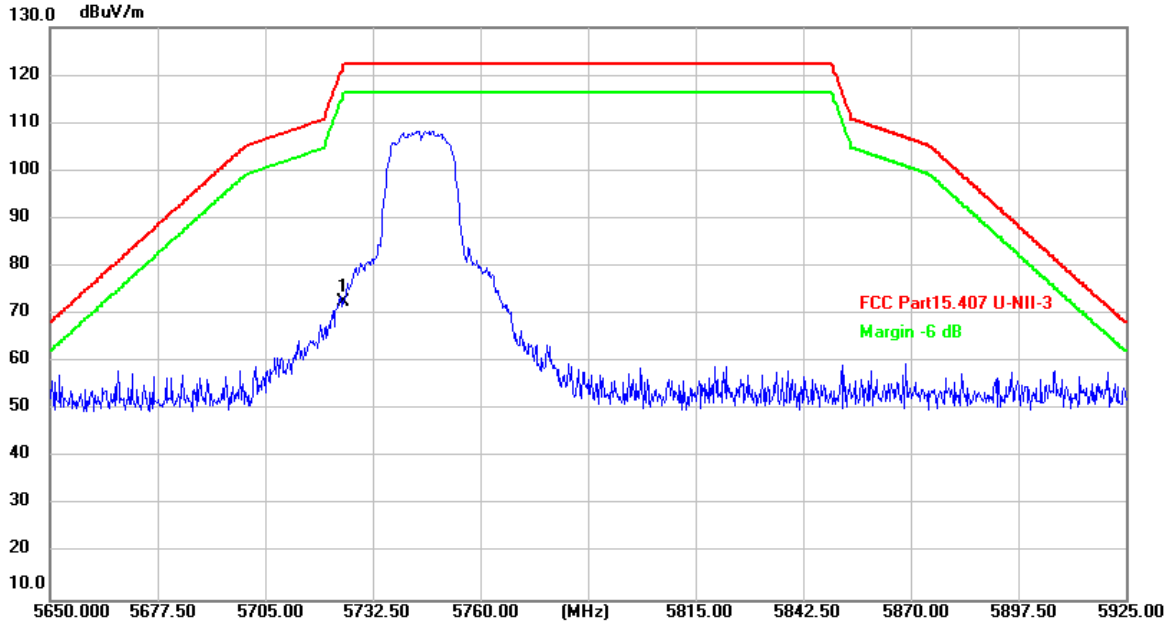
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	18.88	37.57	56.45	74.00	-17.55	peak
2 *	5470.000	9.67	37.57	47.24	54.00	-6.76	AVG

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



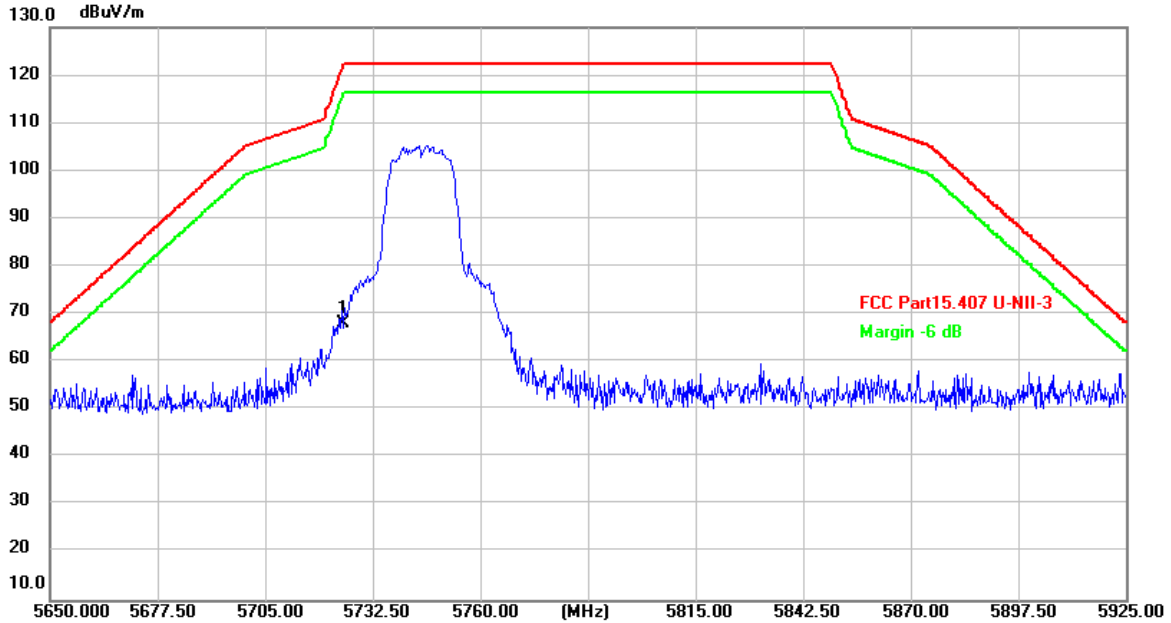
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	34.42	38.07	72.49	122.20	-49.71	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	30.08	38.07	68.15	122.20	-54.05	peak

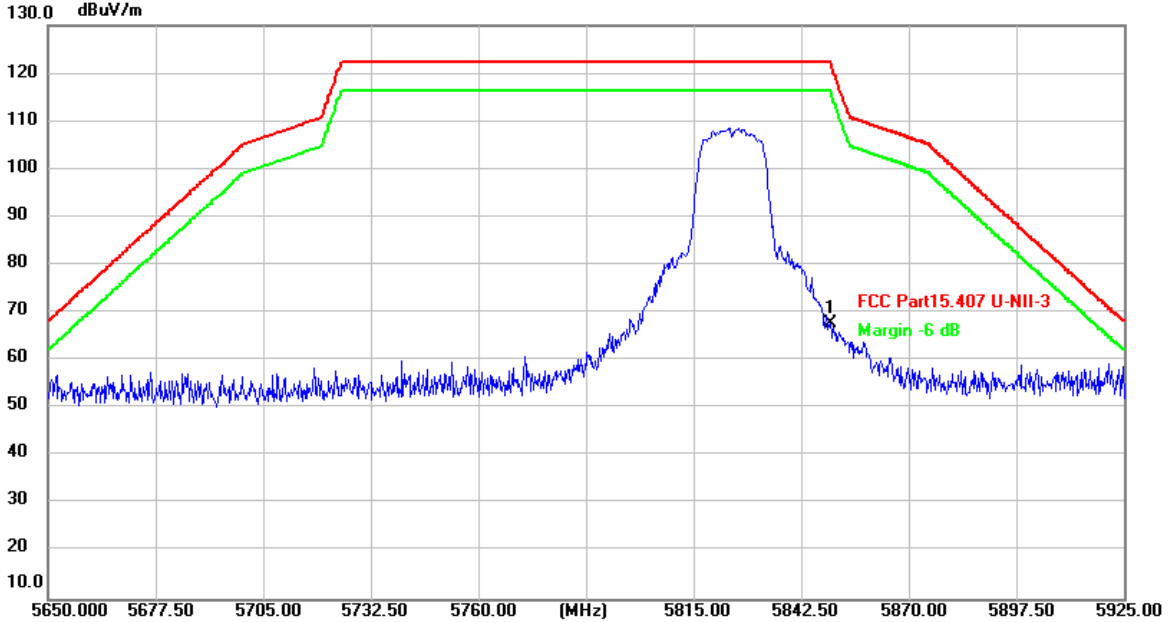
Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





Ant No.:	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



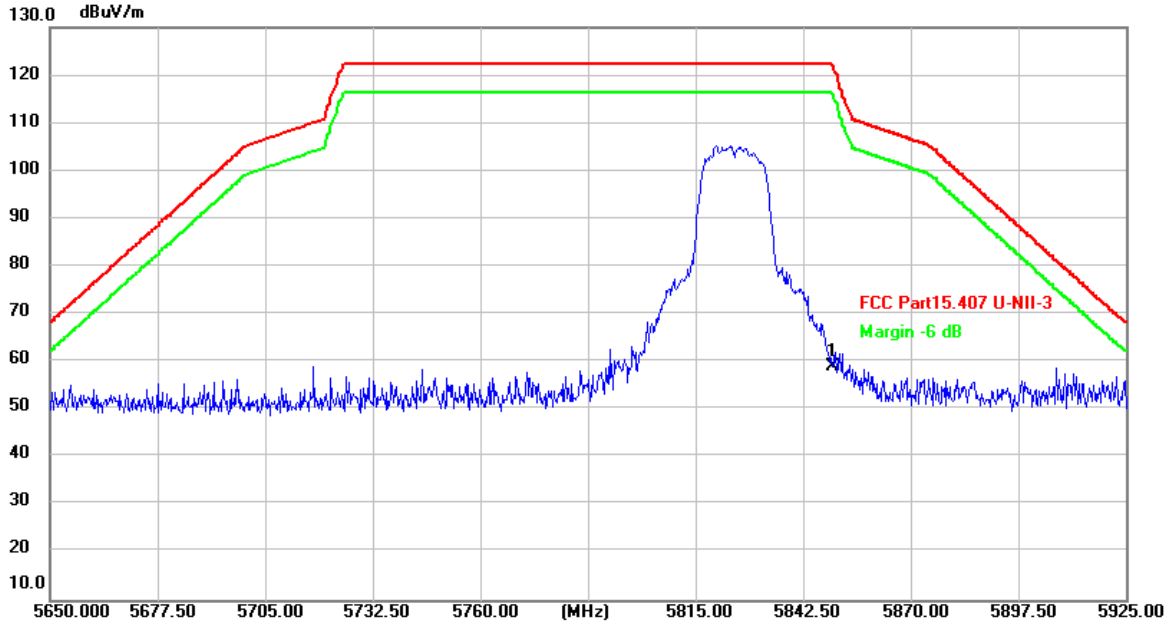
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	29.34	38.33	67.67	122.20	-54.53	peak

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



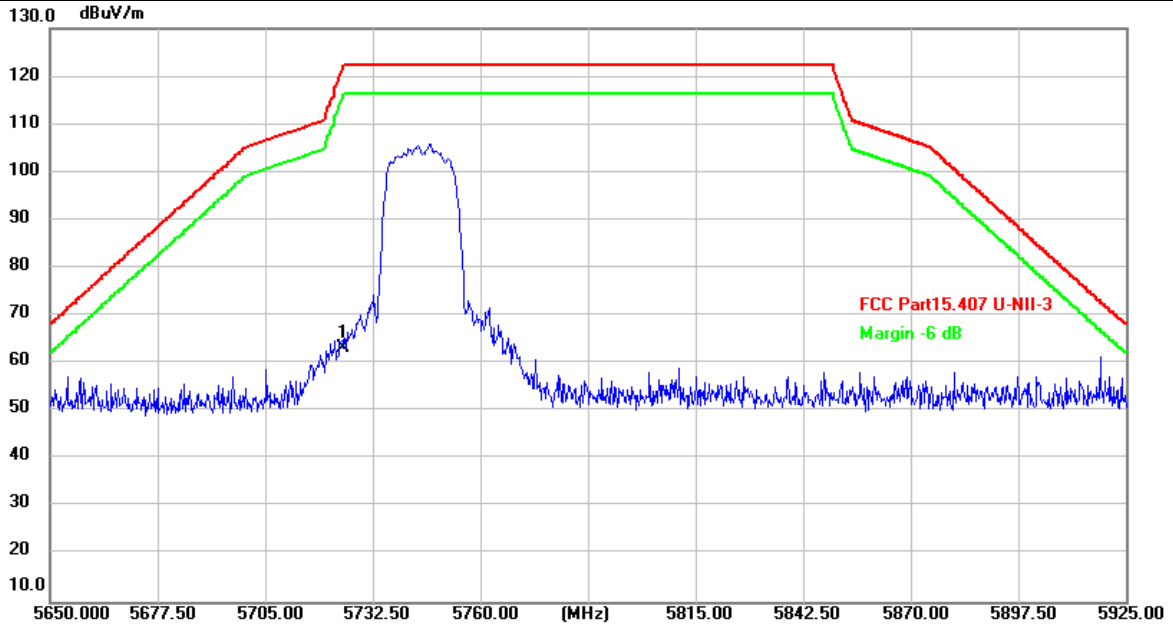
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	20.83	38.33	59.16	122.20	-63.04	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



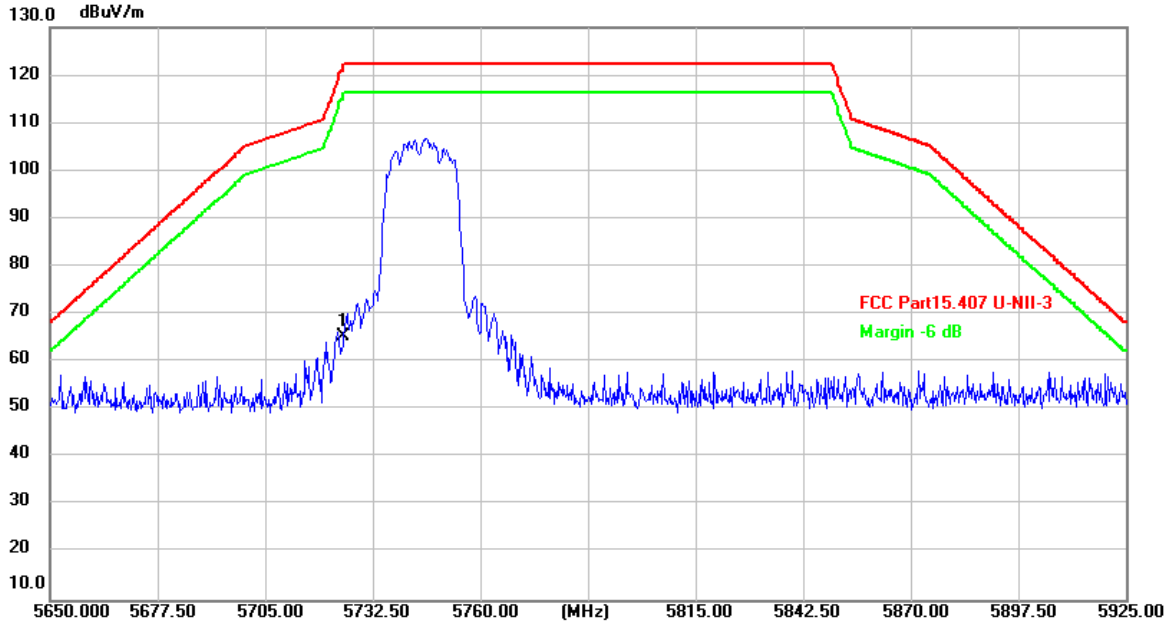
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	25.09	38.07	63.16	122.20	-59.04	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



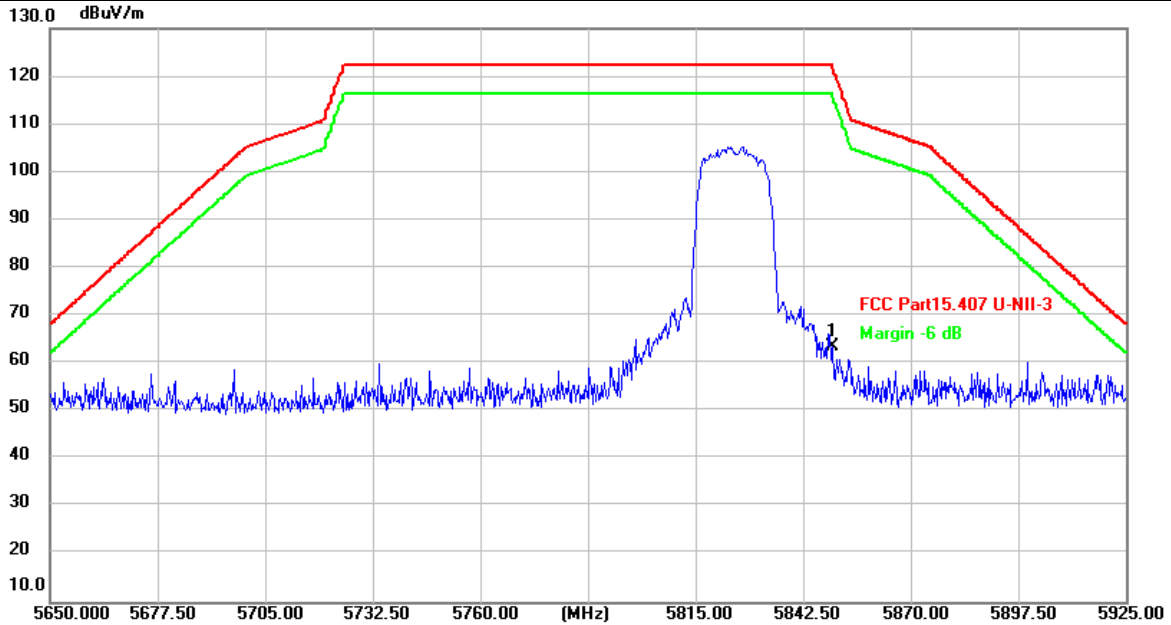
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	27.15	38.07	65.22	122.20	-56.98	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



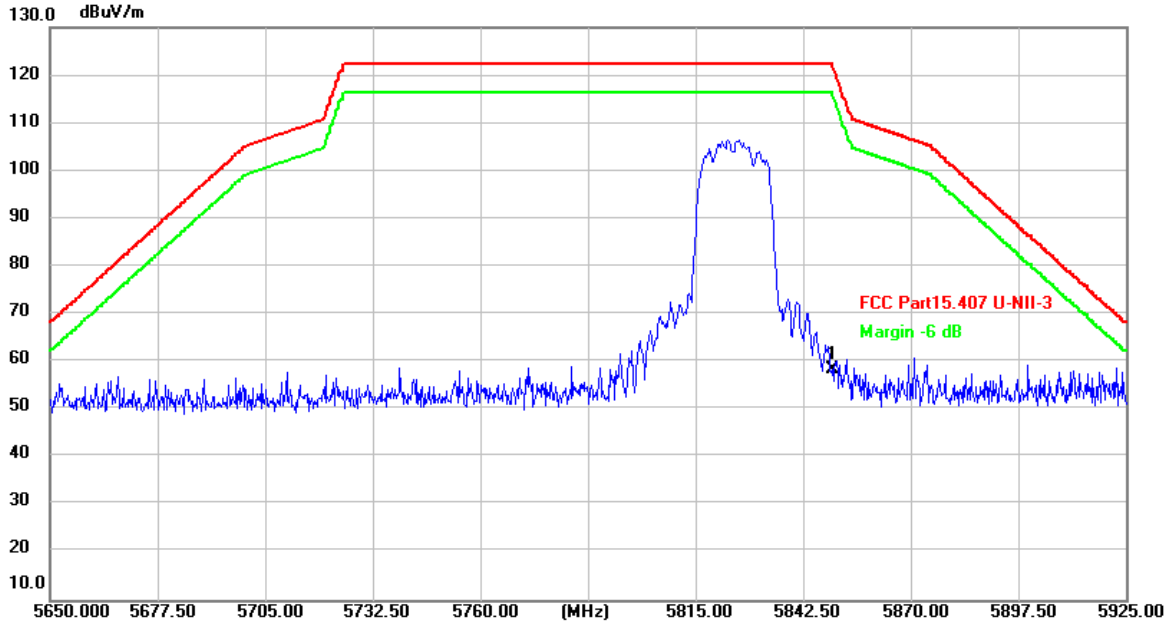
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	25.11	38.33	63.44	122.20	-58.76	peak

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



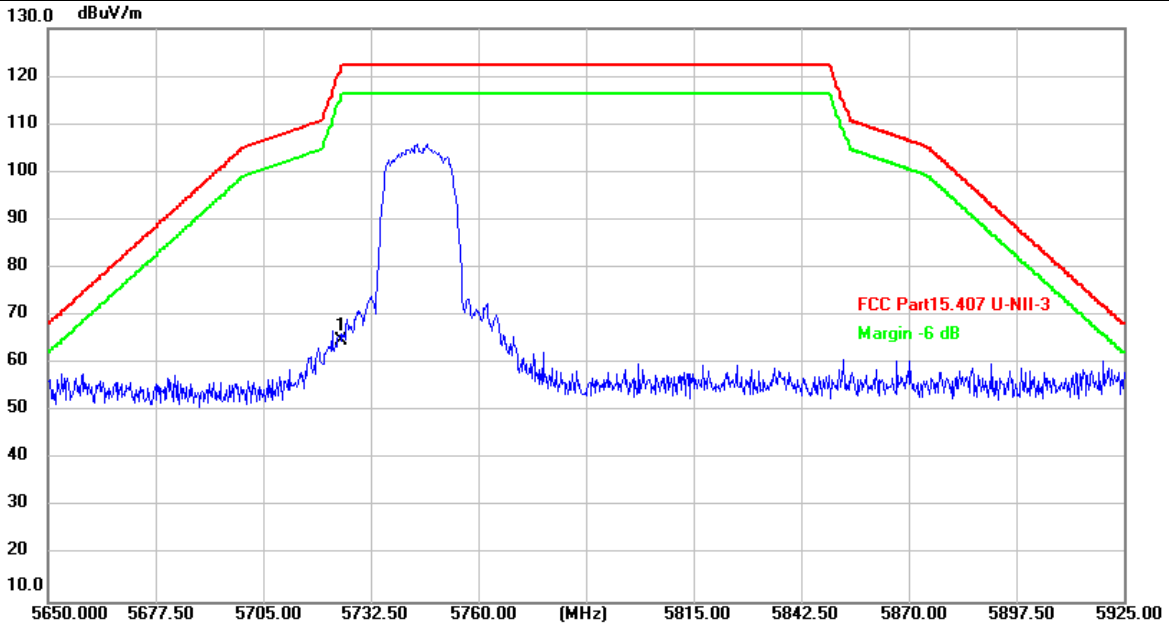
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	20.15	38.33	58.48	122.20	-63.72	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



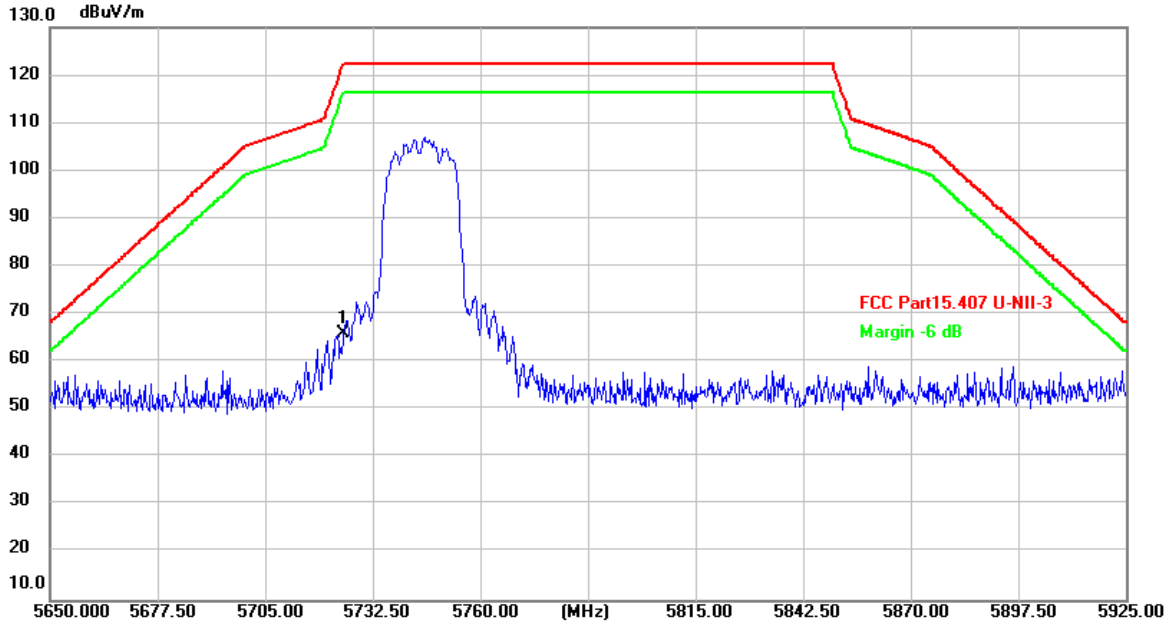
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	26.59	38.07	64.66	122.20	-57.54	peak

**Remarks:**

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	27.88	38.07	65.95	122.20	-56.25	peak

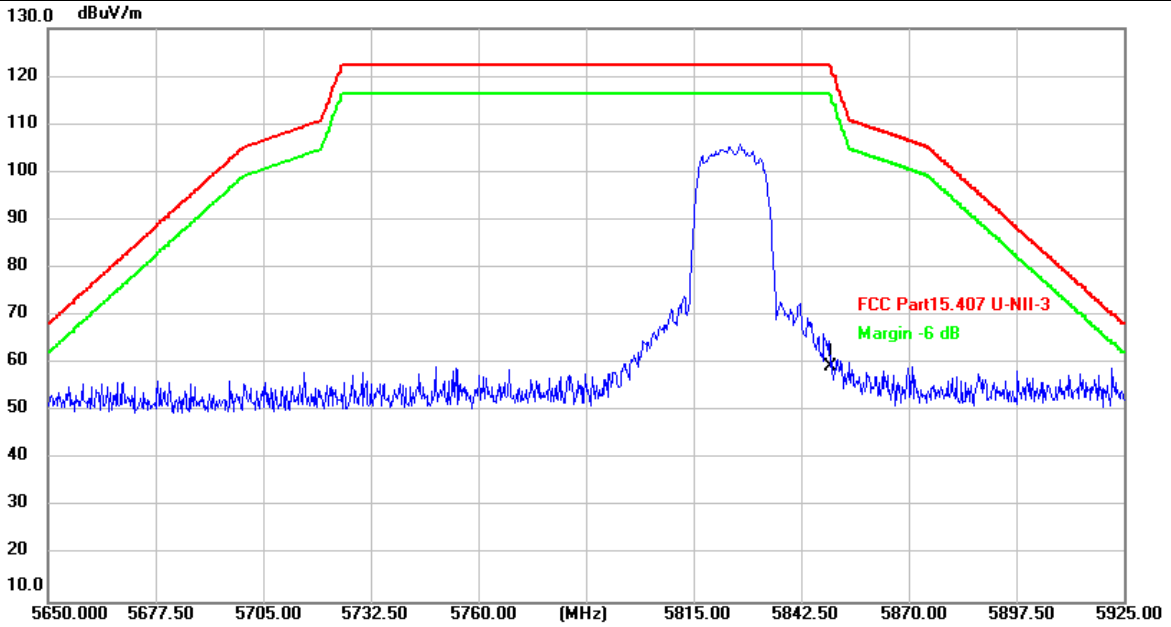
Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



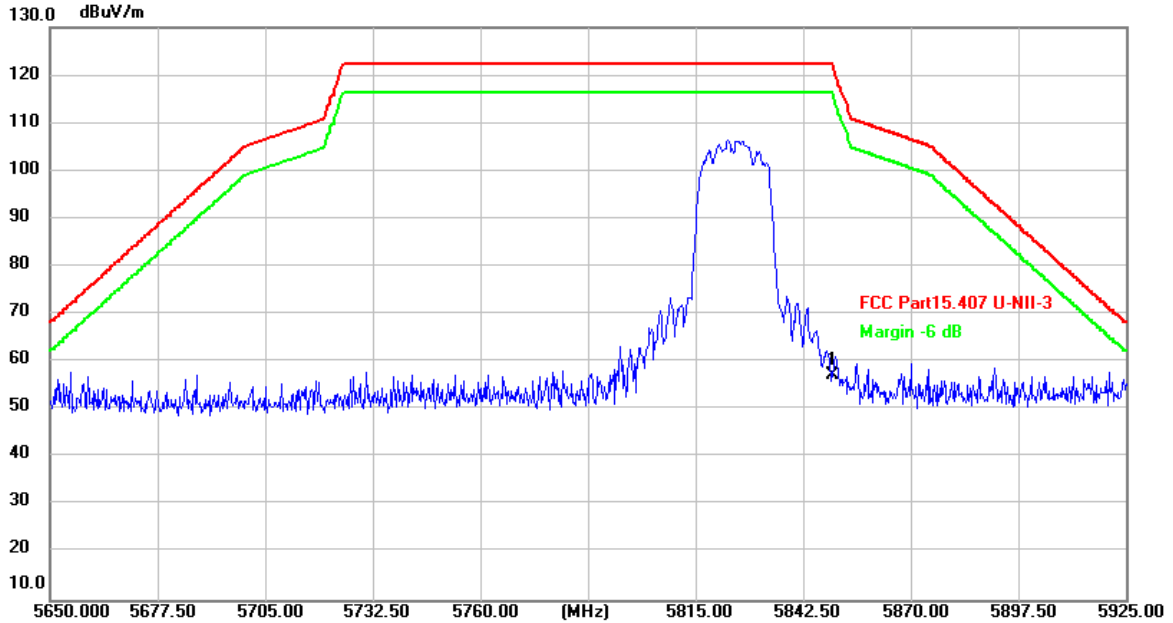
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	21.09	38.33	59.42	122.20	-62.78	peak

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



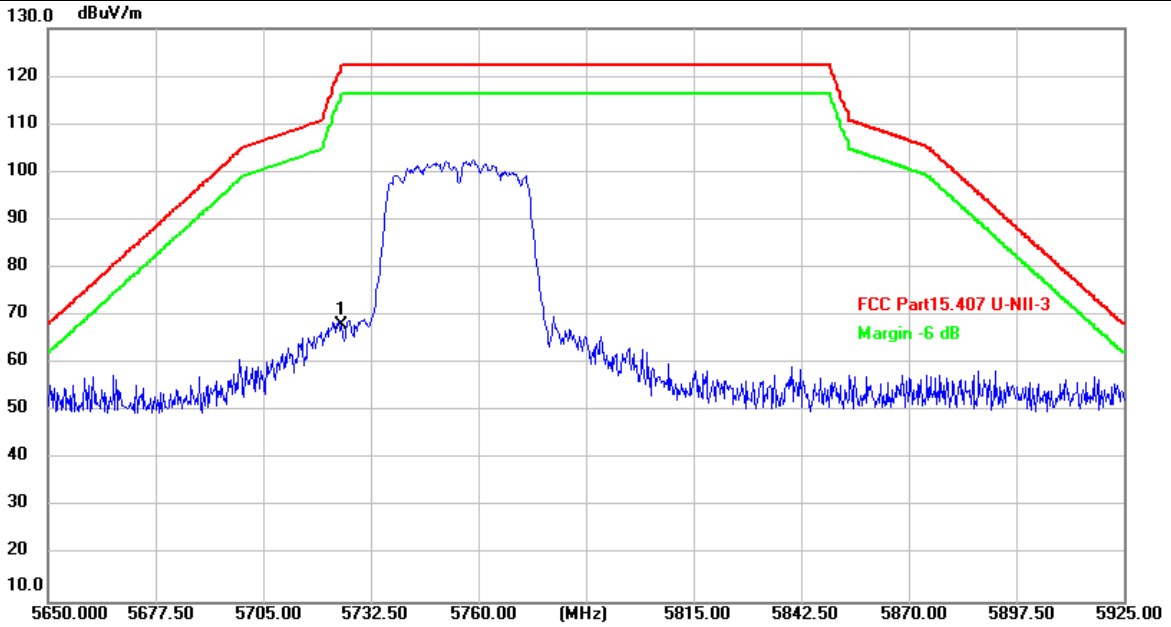
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	18.97	38.33	57.30	122.20	-64.90	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



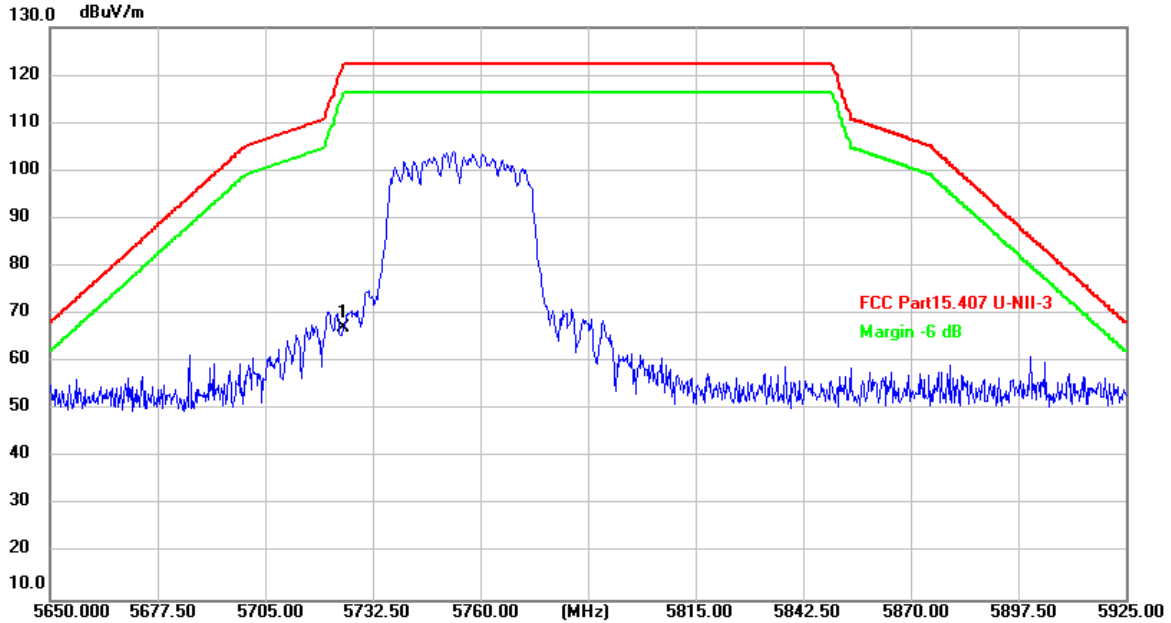
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	29.83	38.07	67.90	122.20	-54.30	peak

**Remarks:**

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



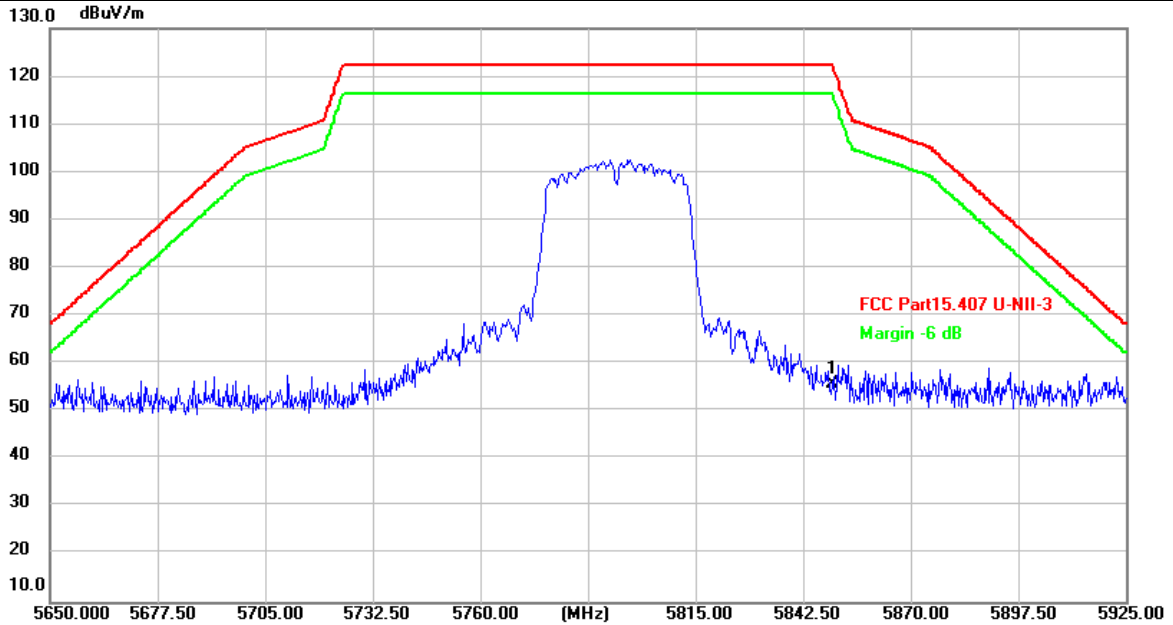
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	29.02	38.07	67.09	122.20	-55.11	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



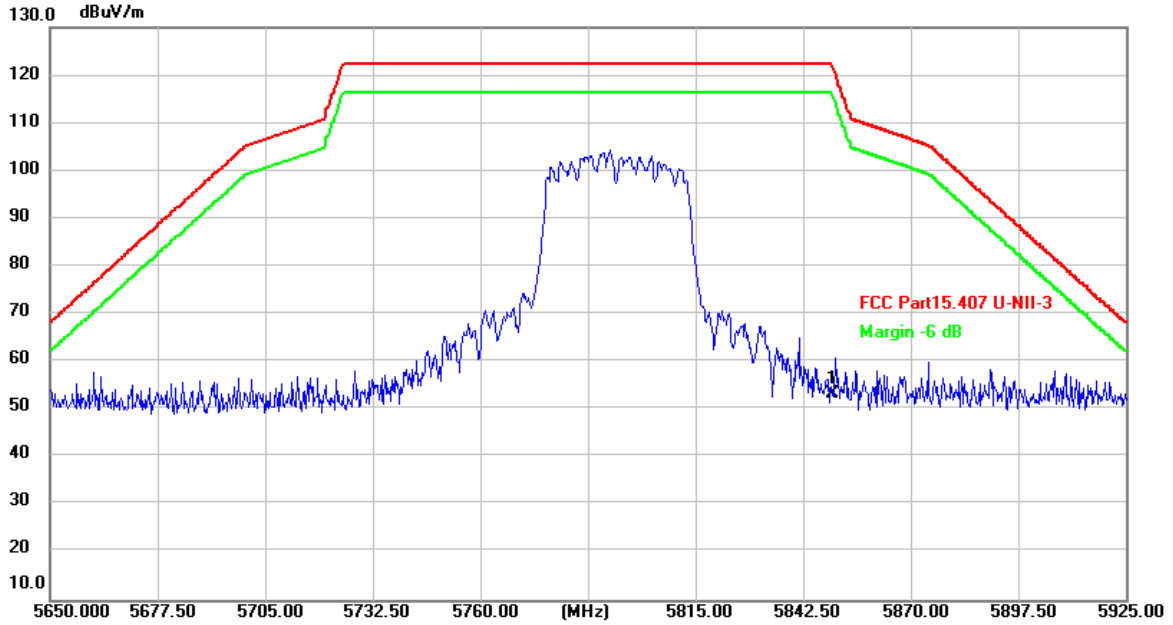
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	17.33	38.33	55.66	122.20	-66.54	peak

**Remarks:**

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



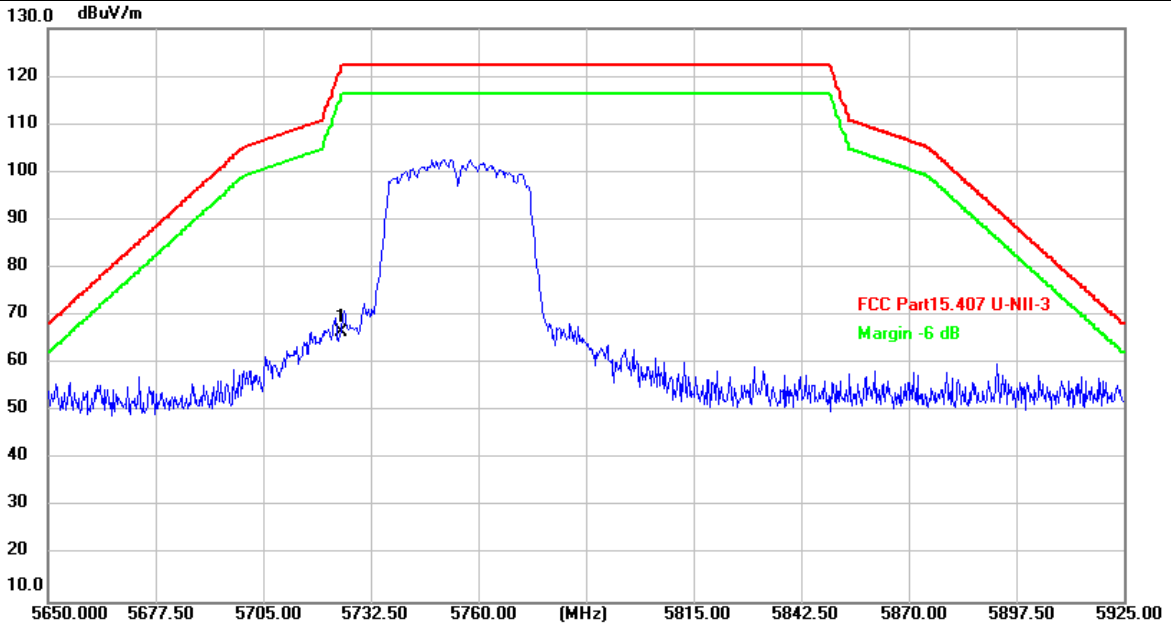
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	15.05	38.33	53.38	122.20	-68.82	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



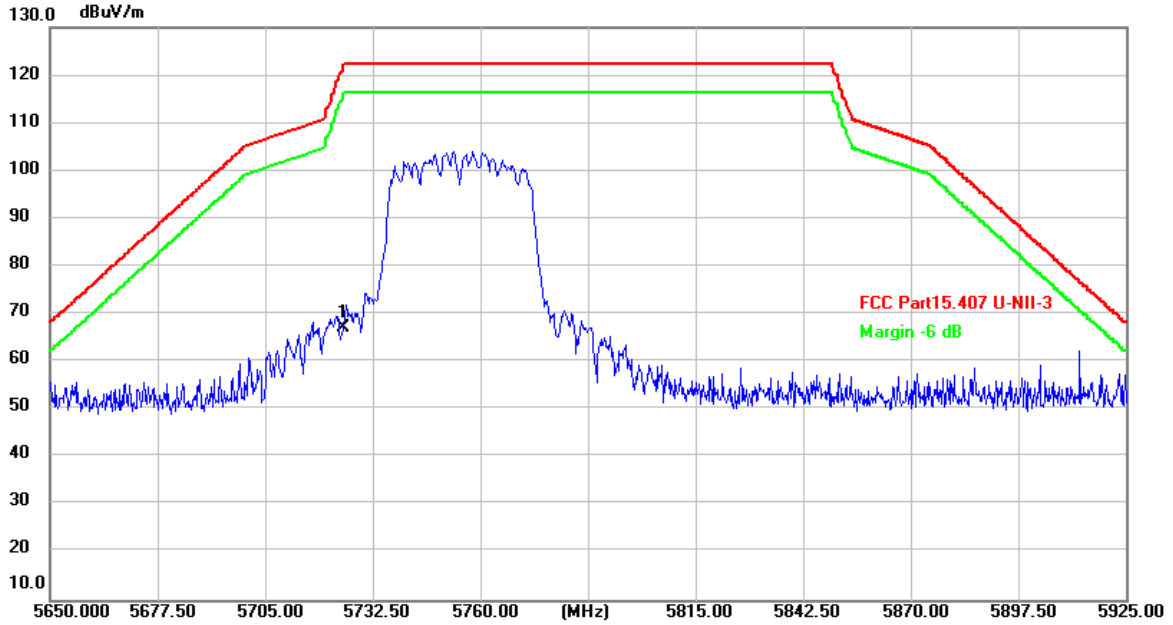
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	28.42	38.07	66.49	122.20	-55.71	peak

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	28.98	38.07	67.05	122.20	-55.15	peak

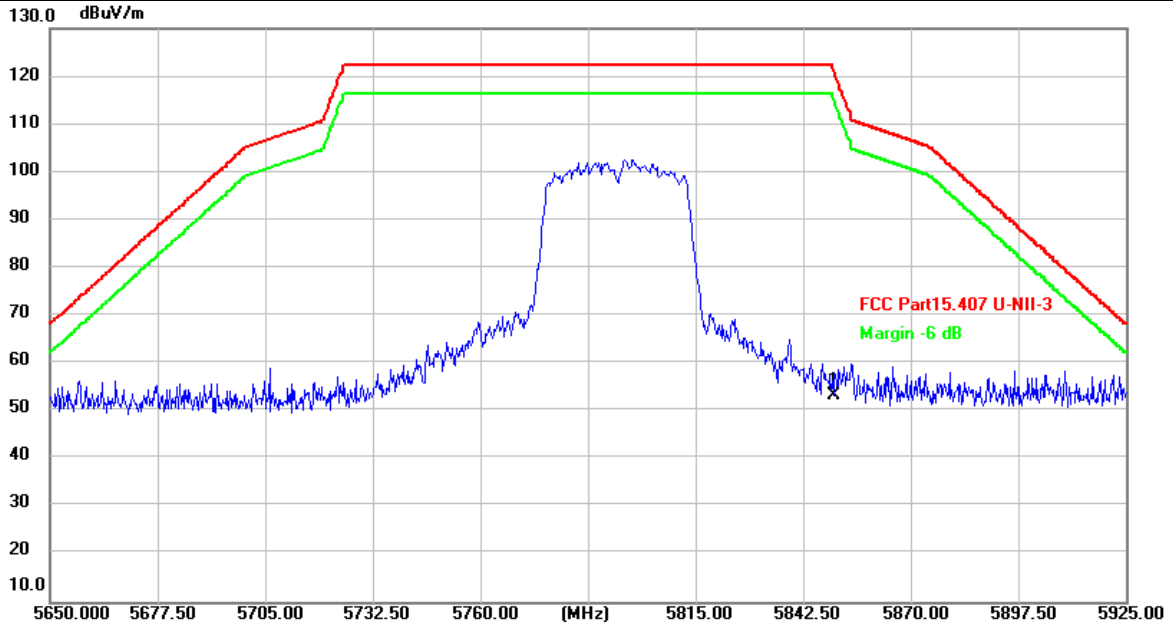
Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value





<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



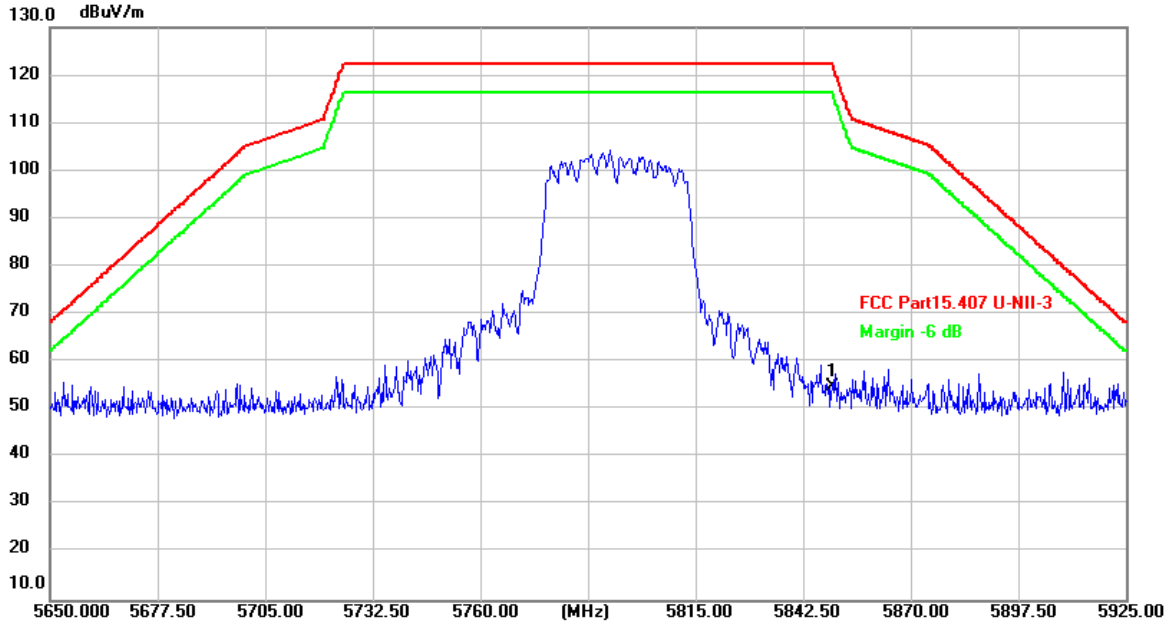
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	14.97	38.33	53.30	122.20	-68.90	peak

**Remarks:**

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



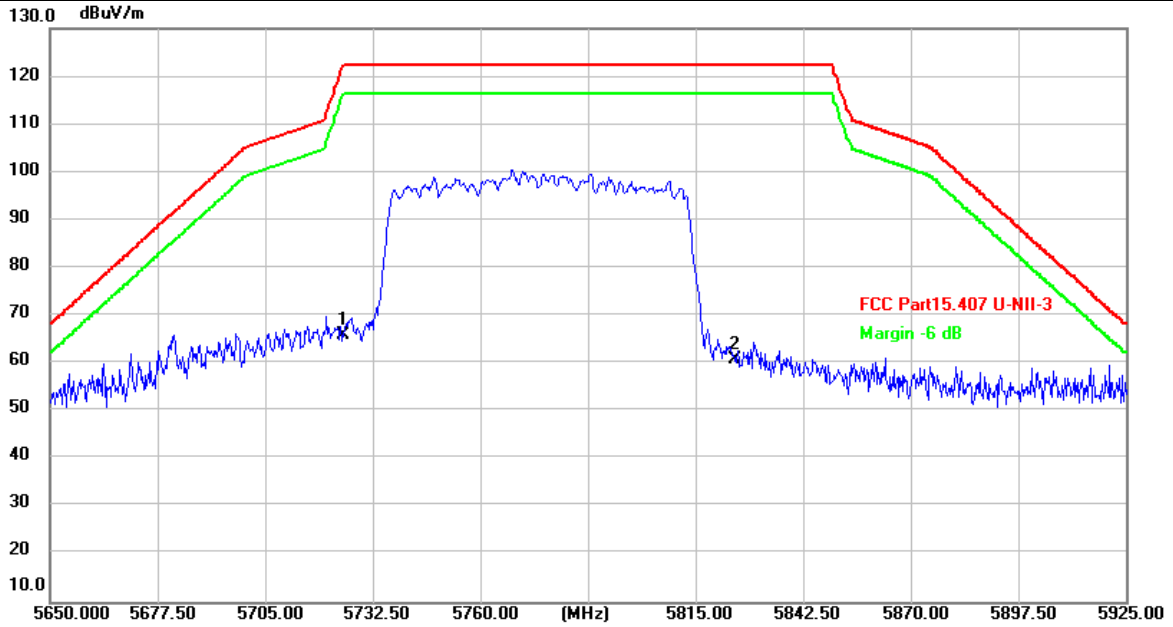
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	16.50	38.33	54.83	122.20	-67.37	peak

Remarks:

- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value



Ant No.:	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

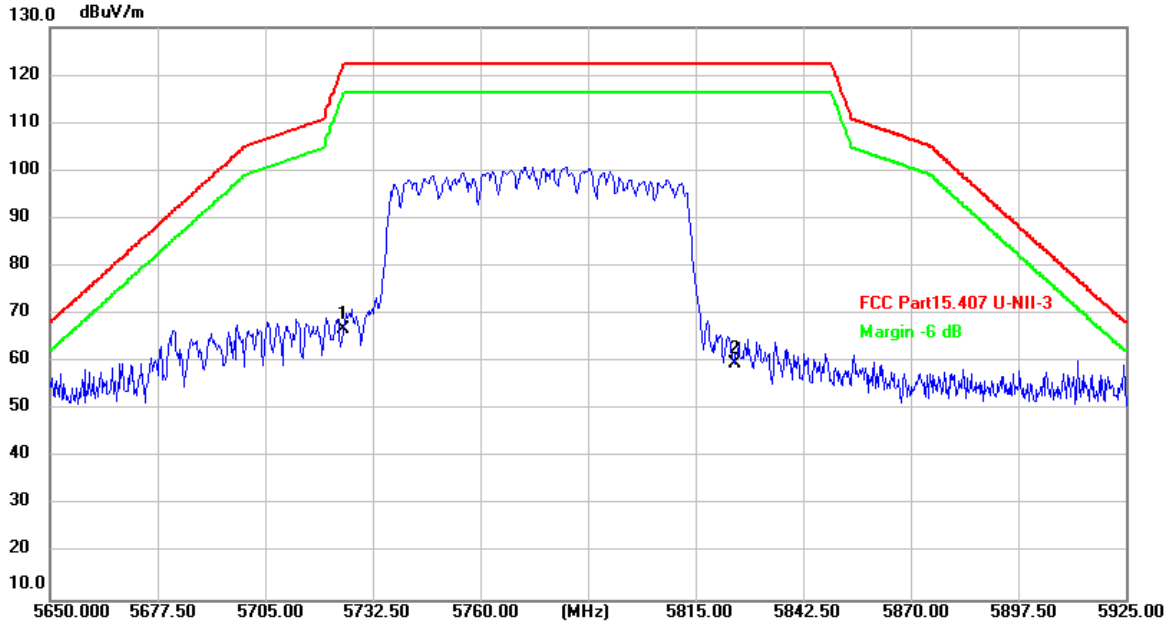


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	27.90	38.07	65.97	122.20	-56.23	peak
2	5825.000	22.65	38.28	60.93	122.20	-61.27	peak

Remarks:  
 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor  
 2.Margin value = Level -Limit value



<b>Ant No.:</b>	Ant 1 + Ant 2
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)
<b>Remark:</b>	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	28.64	38.07	66.71	122.20	-55.49	peak
2	5825.000	21.47	38.28	59.75	122.20	-62.45	peak

Remarks:

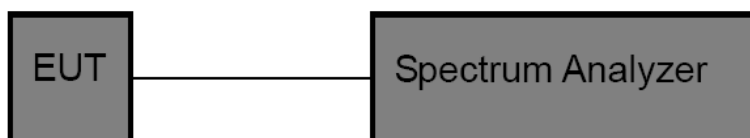
- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2. Margin value = Level -Limit value

### 3.4. Bandwidth Test

**Limit**

FCC Part 15 Subpart C(15.407)/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	>500kHz	5725~5850

**Test Configuration**



**Test Procedure**

Please refer to According to KDB789033 D02, for the measurement methods.

**The setting of the spectrum analyser as below:**

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW $\geq$ 3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq$ 3RBW
Detector	Peak
Trace	Max Hold

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### **Test Mode**

Please refer to the clause 2.4.

#### **Test Results**

Please see the Appendix A1, A2, A3.

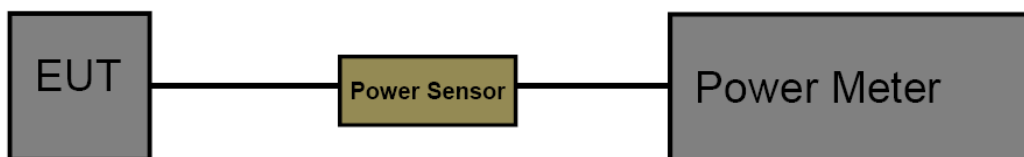
### 3.5. Output Power Test

Limit

FCC Part 15 Subpart E (15.407)		
Test Item	Limit	Frequency Range(MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

IC Power@PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

Test Configuration





**Test Procedure**

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

**Test Mode**

Please refer to the clause 2.4.

**Test Result**

Please see the Appendix B.





### 3.6. Power Spectral Density Test

#### Limit

#### FCC Part 15 Subpart E(15.407)/ RSS-247

For the 5.15~5.25GHz band:

- Outdoor AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 17 - (G_{TX} - 6)$ .
- Indoor AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 17 - (G_{TX} - 6)$ .
- Point-to-point AP  
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.  
If  $G_{TX} > 23\text{dBi}$ , then  $\text{PSD} = 17 - (G_{TX} - 23)$ .
- Client devices  
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 11 - (G_{TX} - 6)$ .

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 11 - (G_{TX} - 6)$ .

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 11 - (G_{TX} - 6)$ .

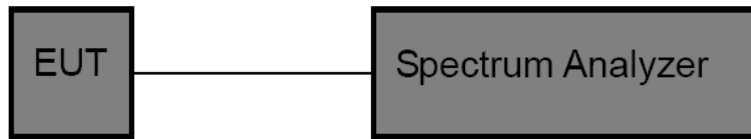
For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)  
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.  
If  $G_{TX} > 6\text{dBi}$ , then  $\text{PSD} = 30 - (G_{TX} - 6)$ .
- Point-to-point systems (P2P)  
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note:  $G_{TX}$ : EUT Antenna gain.

IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10}B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/MHz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

## Test Configuration



## Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz  
RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to:  $\geq 3$  RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) Use the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

## Test Mode

Please refer to the clause 2.4.

## Test Result

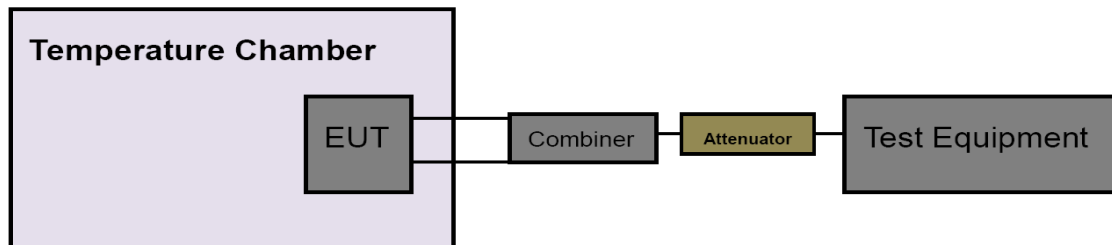
Please see the Appendix C.

### 3.7. Frequency Stability

**Limit**

FCC Part 15 Subpart C(15.407)		
Test Item	Limit	Frequency Range(MHz)
Peak Excursion Measurement	Specified in the user's manual, the transmitter center frequency tolerance shall be $\pm 20$ ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

**Test Configuration**



**Test Procedure**

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10 kHz, VBW=10 kHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- (6) Extreme temperature is -25°C~45°C.

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

**Test Mode**

Please refer to the clause 2.4.

**Test Result**

Please see the Appendix D.



### 3.8. Antenna Requirement

#### Standard Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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.

#### Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.



### 3.9. Dynamic Frequency Selection(DFS)

#### Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**LIMIT**

## 1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.  
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

## 2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

**RADAR TEST WAVEFORMS**

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

$$\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\}$$

would be Round up  $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18$ .

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678



10	1432.7	698
11	1392.8	718
12	1355.0	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139.0	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

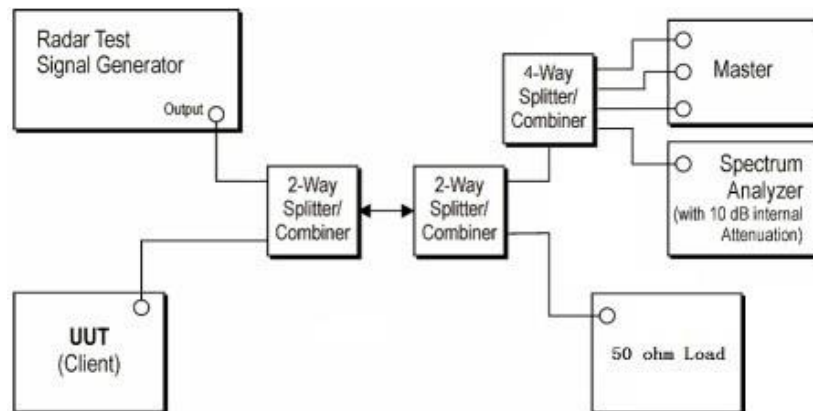


## Calibration of Radar Waveform

### Radar Waveform Calibration Procedure

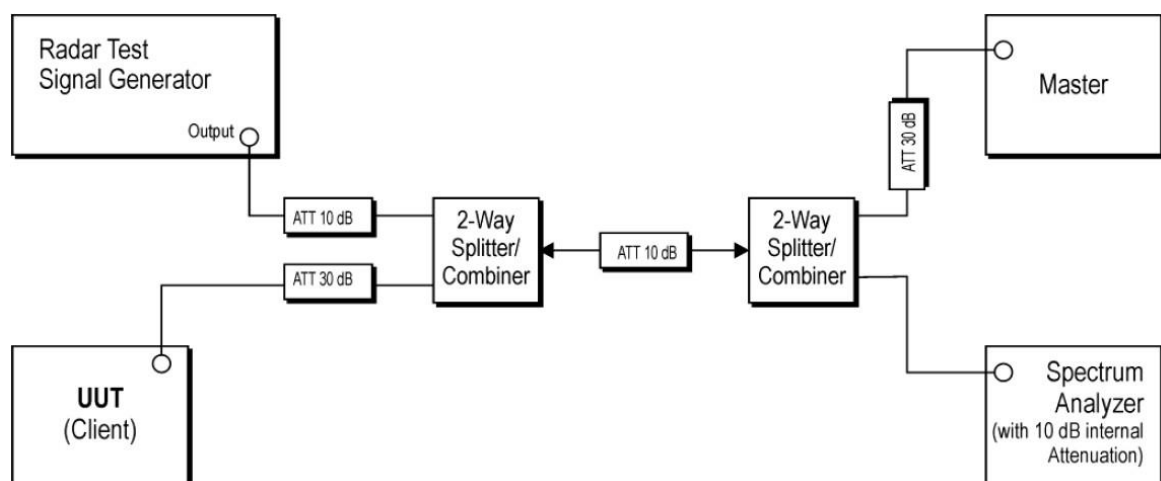
- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master.
- 2) The interference Radar Detection Threshold Level is  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset  $-1.0\text{dB}$  to compensate RF cable loss  $1.0\text{dB}$ .
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

### Conducted Calibration Setup



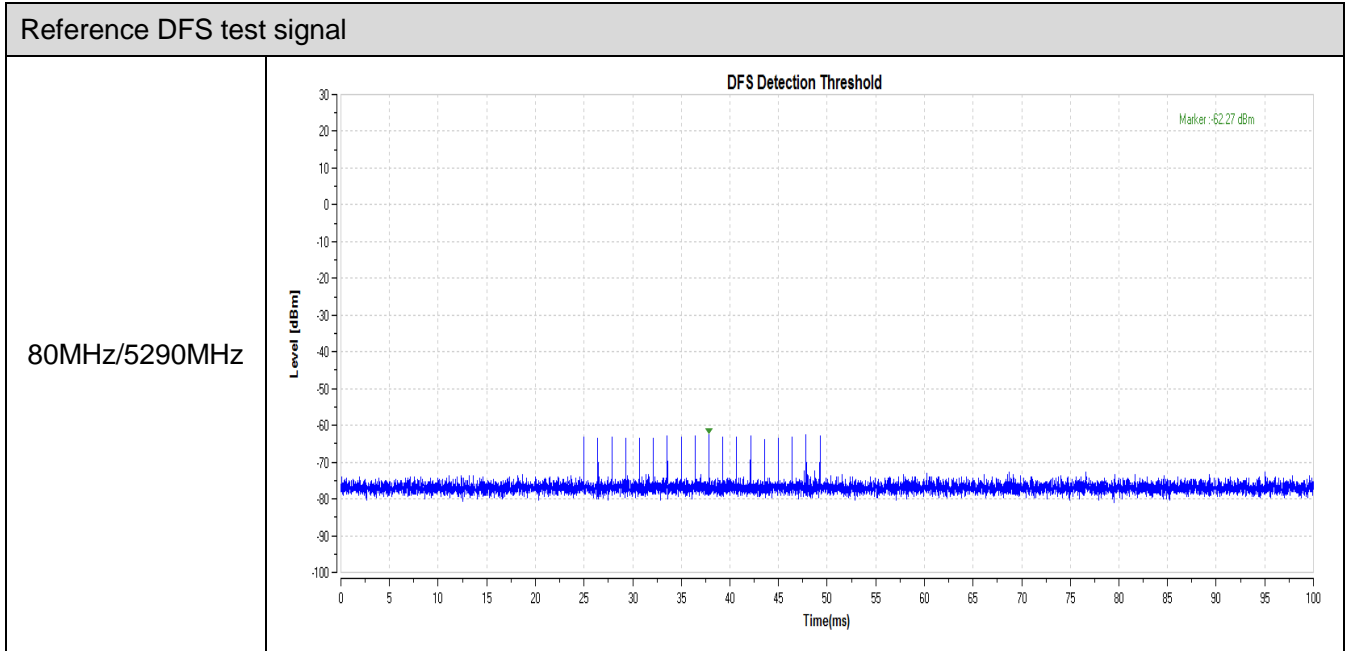
### Test Configuration

#### Setup for Client with injection at the Master





### Radar Waveform Calibration Result



**Test Procedure**

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (0.3ms) = S (12000ms) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (ms) = N \times Dwell (0.3ms)$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

**Test Mode**

Please refer to the clause 2.4.

**Test Results**

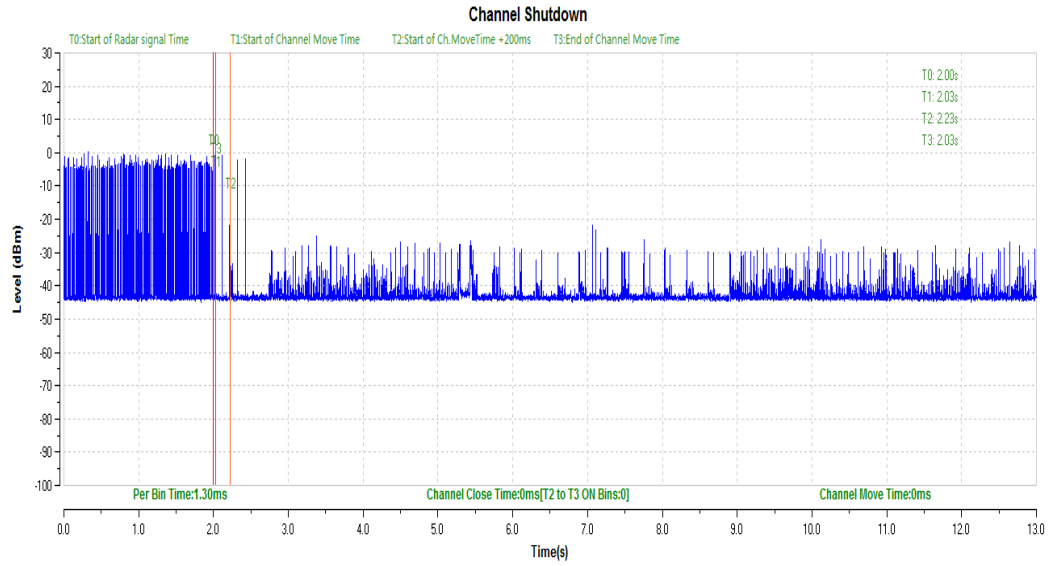
**Passed**                       **Not Applicable**

BW/Channel	Test Item	Test Result	Limit	Result
40MHz/5270MHz	Channel Move Time	750.1ms	< 10s	Pass
	Channel Closing Transmission Time	49.4ms	<200+60ms	Pass
	Non-Occupancy Period	See test graph	>=1800	Pass
40MHz/5510MHz	Channel Move Time	400.4ms	< 10s	Pass
	Channel Closing Transmission Time	7.8ms	<200+60ms	Pass
	Non-Occupancy Period	See test graph	>=1800	Pass



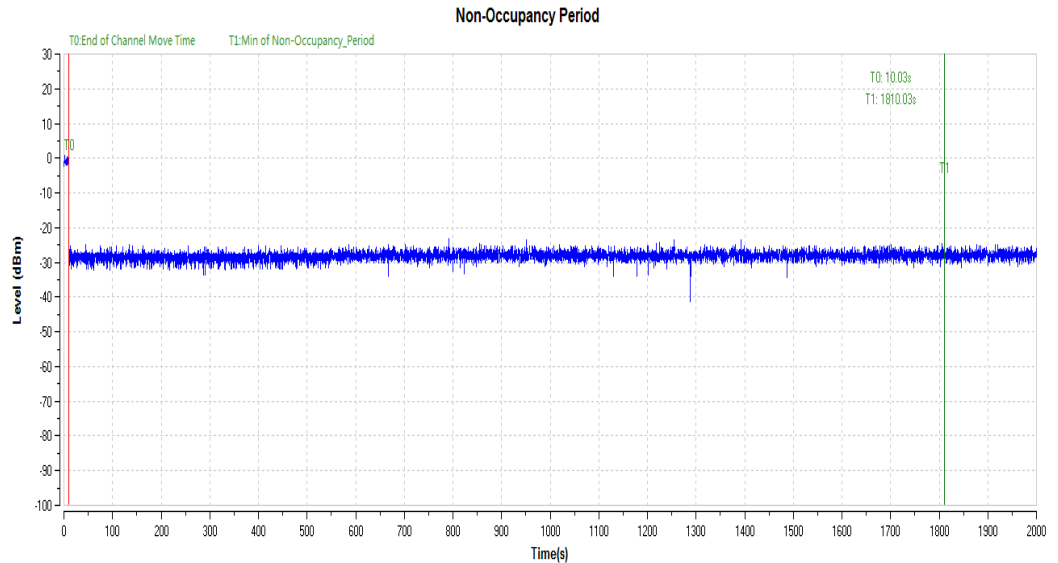
### Channel Move Time & Channel Closing Transmission Time

80MHz/5290MHz



### Non-Occupancy Period

80MHz/5290MHz



\*\*\*\*\*THE END\*\*\*\*\*