FCC TEST REPORT

FCC ID: SY4-A02078

On Behalf of

Shanghai Huace Navigation Technology Ltd.

Tablet

Model No.: CB-H10 Pro (T)

Prepared for	:	Shanghai Huace Navigation Technology Ltd.
Address	:	577 Songying Road, Qingpu District, 201706 Shanghai, China

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2604056-C03-R04
Date of Receipt	:	May 08, 2026
Date of Test	:	May 09, 2026 – October 14, 2026
Date of Report	:	October 14, 2026
Version Number	:	V0
Result		**Pass**

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TEST REPORT DECLARATION

Applicant	:	Shanghai Huace Navigation Technology Ltd.
Address	:	577 Songying Road, Qingpu District, 201706 Shanghai, China
Manufacturer	:	Shanghai Huace Navigation Technology Ltd.
Address	:	577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT Description	:	Tablet
		(A) Model No. : CB-H10 Pro (T)
		(B) Trademark : CHCNAV

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E

ANSI C63.10-2020

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:	Yannis Wen Project Engineer	Yannis Wen
Approved by (name + signature)…....:	Alan Fan Project Manager	Alan Fan
Date of issue……..:	October 14, 2026	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	October 14, 2026	Initial released Issue	Yannis Wen

1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Section 15.203	PASS
AC Power Line Conducted Emission	Section 15.207(a)	N/A
Maximum Conducted Output Power	Section 15.407(a)	PASS
Power Spectral Density	Section 15.407(a)	PASS
26dB/6dB&99% Bandwidth	Section 15.407	PASS
Undesirable Emission	Section 15.407(b)	PASS
Conducted Spurious Emission	Section 15.407(b)	PASS
Conducted Band Edge	Section 15.407(b)	PASS
Radiated Emission	15.205&15.209 (a)	PASS
Radiated Band Edge	15.205&15.209 (a)	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.
4. N/A is an abbreviation for Not Applicable.

1.1 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8}GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%
Uncertainty for Power Spectral Density	0.39dB
Uncertainty for Occupied-Bandwidth	968Hz

2 General Information

2.1 General Description of EUT

EUT Name	:	Tablet
Model No.	:	CB-H10 Pro (T)
DIFF.	:	N/A
Power supply	:	DC 12V from battery

Radio Technology	:	5G WIFI
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20): 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz 802.11n(HT40)/ac(VHT40): 5190~5230MHz; 5270-5310MHz; 5510-5670MHz; 5755~5795MHz 802.11ac(VHT80): 5210MHz, 5290MHz, 5530MHz, 5775MHz
Channel separation	:	20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20) 40MHz for 802.11ac(VHT40)/ 802.11n(HT40) 80MHz for 802.11ac(VHT80)
Modulation technology:	:	IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	:	Internal antenna U-NII-1:max gain 0.88dBi U-NII-2A:max gain 1.80dBi U-NII-2C:max gain 2.62dBi U-NII-3:max gain 2.18dBi (Antenna information is provided by applicant.)
Software version	:	Android 14
Hardware version	:	V0.3
Intend use environment	:	Residential, commercial and light industrial environment

2.2 Test mode

Transmitting mode Keep the EUT in transmitting with modulation.
EUT was test with 99% duty cycle at its maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

U-NII-1:

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) see Note	Channel	Frequency (MHz)
IEEE 802.11a	6	CH36	5180
	6	CH40	5200
	6	CH48	5240
IEEE 802.11n HT20	6.5	CH36	5180
	6.5	CH40	5200
	6.5	CH48	5240
IEEE 802.11n HT40	13.5	CH38	5190
	13.5	CH46	5230
IEEE 802.11ac VHT20	6.5	CH36	5180
	6.5	CH40	5200
	6.5	CH48	5240
IEEE 802.11ac VHT40	13.5	CH38	5190
	13.5	CH46	5230
IEEE 802.11ac VHT80	433.3	CH42	5210
Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test.			

U-NII-2A:

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) see Note	Channel	Frequency (MHz)
IEEE 802.11a	6	CH52	5260
	6	CH56	5280
	6	CH64	5320
IEEE 802.11n HT20	6.5	CH52	5260
	6.5	CH56	5280
	6.5	CH64	5320
IEEE 802.11n HT40	13.5	CH54	5270
	13.5	CH62	5310
IEEE 802.11ac VHT20	6.5	CH52	5260
	6.5	CH56	5280
	6.5	CH64	5320
IEEE 802.11ac VHT40	13.5	CH54	5270
	13.5	CH62	5310
IEEE 802.11ac VHT80	433.3	CH58	5290
Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test.			

U-NII-2C:

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) see Note	Channel	Frequency (MHz)
IEEE 802.11a	6	CH100	5500
	6	CH116	5580
	6	CH140	5700
IEEE 802.11n HT20	6.5	CH100	5500
	6.5	CH116	5580
	6.5	CH140	5700
IEEE 802.11n HT40	13.5	CH102	5510
	13.5	CH134	5670
IEEE 802.11ac VHT20	6.5	CH100	5500
	6.5	CH116	5580
	6.5	CH140	5700
IEEE 802.11ac VHT40	13.5	CH102	5510
	13.5	CH134	5670
IEEE 802.11ac VHT80	433.3	CH106	5530
Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test.			

UNII-3:

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) see Note	Channel	Frequency (MHz)
IEEE 802.11a	6	CH149	5745
	6	CH157	5785
	6	CH165	5825
IEEE 802.11n HT20	6.5	CH149	5745
	6.5	CH157	5785
	6.5	CH165	5825
IEEE 802.11n HT40	13.5	CH151	5755
	13.5	CH159	5795
IEEE 802.11ac VHT20	6.5	CH149	5745
	6.5	CH157	5785
	6.5	CH165	5825
IEEE 802.11ac VHT40	13.5	CH151	5755
	13.5	CH159	5795
IEEE 802.11ac VHT80	433.3	CH155	5775
Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 25, 2017 Certificated by IC
Registration Number: 12135A
CAB identified: CN0085

2.4 Description of Support Units

Accessories : /

Manufacturer : /

Model : /

Ratings : /

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

2.8 Additional instructions

Software (Used for test) from client

Channel	Power level
Lowest	Default
Middle	Default
Highest	Default

Note: Use the engineering interface to control EUT operation in continuous TX mode, and select test channel, wireless mode, The power level for the test is set to default.

3 Test Instruments list

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025.03.09	2029.03.08
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	2029.03.08
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	2026.08.03
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	2026.08.03
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2025.08.04	2026.08.03
Spectrum analyzer	ROHDE&SCHWARZ	FSU	4.71.SP5	200002	2025.08.04	2026.08.03
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2025.08.04	2026.08.03
UXM 5G Base Wireless Test Platform	Keysight	E5175E	1.8.1.2908 2(NR)(LTE)	MY62226130	2026.03.03	2027.03.02
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	2026.08.03
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	2026.08.03
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2027.08.10
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2027.08.10
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2027.08.10
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	2026.08.03
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	2026.08.03
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	2026.08.03
Amplifier	SKET	LNPA_0118G-45	/	SK2020010801	2025.08.04	2026.08.03
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	/	SK20190712	2025.08.04	2026.08.03
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2025.08.04	2026.08.03
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	2026.08.03
Pulse Limiter	SCHWARZBECK	9516F	/	9618	2025.08.04	2026.08.03
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2027.08.10
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2025.08.04	2026.08.03
Analog Signal Generator	HP	83712B	10.02	US34490219	2025.08.04	2026.08.03
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	2026.08.03
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	2026.08.03
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO92	2025.08.04	2026.08.03
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	2026.08.03
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	2026.08.03

Adjustable attenuator	MWRFtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A
6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	/	N/A	2025.08.04	2026.08.03

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025/03/09	2029/03/08
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025/03/09	2029/03/08
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2026/7/28	2027/7/27
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2026/7/27	2027/7/26
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2026/7/27	2027/7/26
Spectrum analyzer	ROHDE&SCHWARZ	FSU	4.71.SP5	200002	2026/7/28	2027/7/27
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2026/7/27	2027/7/26
UXM 5G Base Wireless Test Platform	Keysight	E5175E	1.8.1.2908 2(NR)(LTE)	MY62226130	2026/03/03	2027/03/02
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2026/7/27	2027/7/26
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2026/7/28	2027/7/27
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025/08/11	2027/08/10
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025/08/11	2027/08/10
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025/08/11	2027/08/10
RF Cable	Resenberger	Cable 1	/	RE1	2026/7/27	2027/7/26
RF Cable	Resenberger	Cable 2	/	RE2	2026/7/27	2027/7/26
RF Cable	Resenberger	Cable 3	/	CE1	2026/7/27	2027/7/26
Amplifier	HP	HP8347A	/	2834A00455	2026/7/28	2027/7/27
Amplifier	Agilent	8449B	/	3008A02664	2026/7/27	2027/7/26
Amplifier	SKET	LNPA_0118G-45	/	SK2020010801	2026/7/27	2027/7/26
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	/	SK20190712	2026/7/27	2027/7/26
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2026/7/28	2027/7/27
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2026/7/28	2027/7/27
Pulse Limiter	SCHWARZBECK	9516F	/	9618	2026/7/27	2027/7/26
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025/8/11	2027/8/10
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2026/7/27	2027/7/26
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2026/7/28	2027/7/27
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2026/7/27	2027/7/26
Analog Signal Generator	HP	83712B	10.02	US34490219	2026/7/27	2027/7/26
Power Meter	Agilent	E4419B	/	GB40202122	2026/7/27	2027/7/26
Power Sensor	Agilent	E9300A	/	MY41496628	2026/7/27	2027/7/26
Power Sensor	Agilent	E9304A	/	MY41496815	2026/7/27	2027/7/26
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2026/7/28	2027/7/27
Power Sensor	DARE	RPR3006W	/	15100041SNO92	2026/7/28	2027/7/27

Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2026/07/07	2027/07/06
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2026/7/31	2027/7/30
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2026/7/27	2027/7/26
Adjustable attenuator	MWRFtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A
6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	/	N/A	2026/7/28	2027/7/27

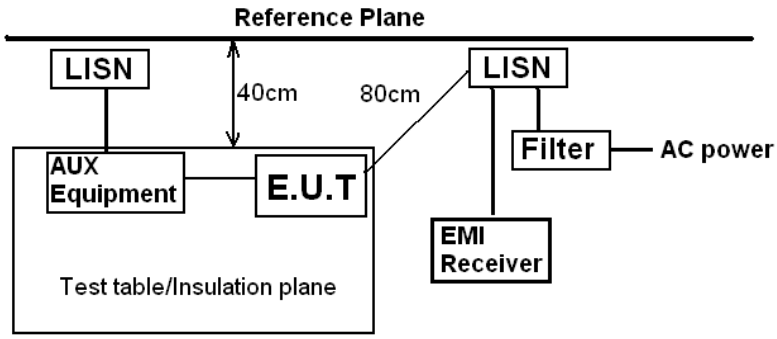
Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

4 Test results and Measurement Data

4.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The antenna is Internal antenna. It complies with the standard requirement.	

4.2 Conducted Emissions

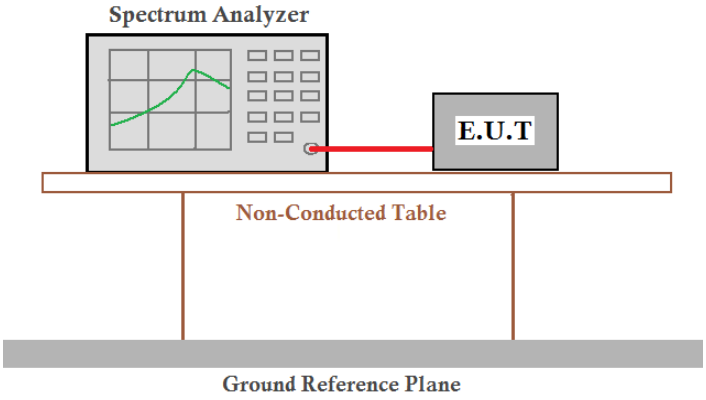
<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020</td></tr>
<tr><td>Test Frequency Range:</td><td>150KHz to 30MHz</td></tr>
<tr><td>Class / Severity:</td><td>Class B</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9KHz, VBW=30KHz</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr>
<tr><th>Quasi-peak</th><th>Average</th></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
* Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Test procedure</td><td>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.</td></tr>
<tr><td>Test setup:</td><td>


Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m
</td></tr>
<tr><td>Test results:</td><td>Not applicable for equipment operated with battery.</td></tr>
</table>

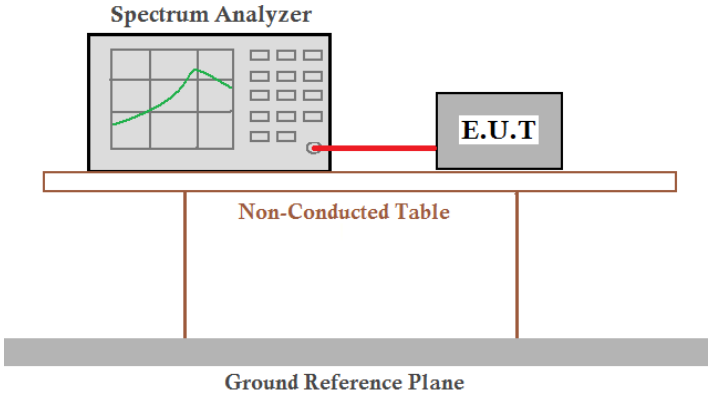
Measurement Data

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

4.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	N/A
Test setup:	
Test procedure:	1. Set center frequency to the nominal EUT channel center frequency. 2. Set span = 1.5 times to 5.0 times the OBW. 3. Set RBW = 1% to 5% of the OBW 4. Set VBW ⩾ 3*RBW 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. 6. Use the 99% power bandwidth function of the instrument (if available). 7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data.

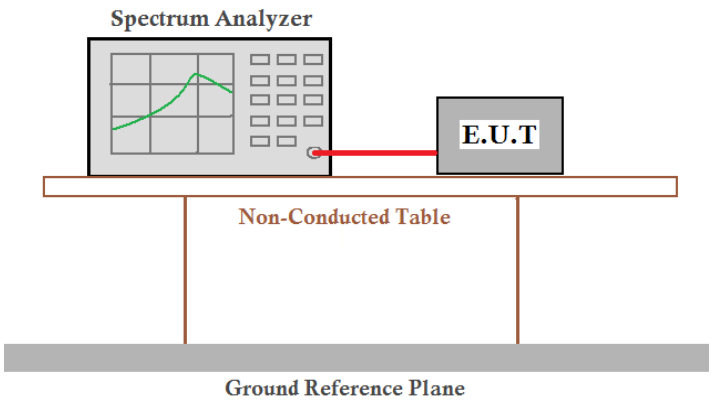
4.4 Duty Cycle

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	/
Test setup:	
Test procedure:	**Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:** a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal. b) Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak.
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data.

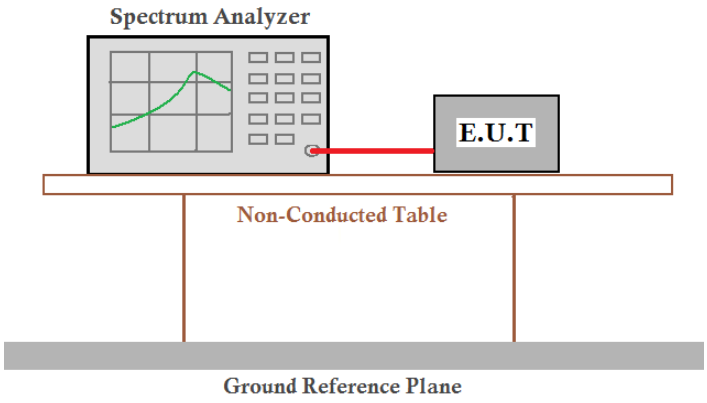
4.5 Average Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	FCC: For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, The maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC:

Section	Test Item	Limit	Frequency Range (MHz)	Result
6.2.1.1	Peak Output Power	200 mW or 10 + 10 $\log_{10}$B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz	5150-5250	PASS
6.2.2.1 6.2.3.1		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
6.2.4.1		1 watt	5725-5825	

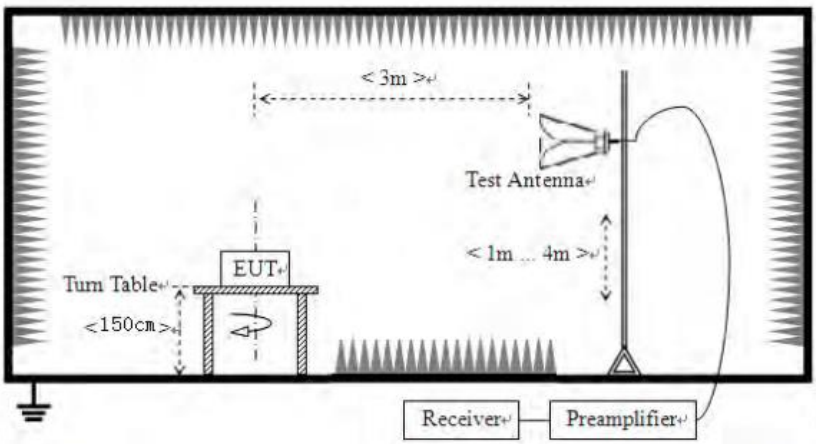
Test setup:	
Test procedure:	**Measurement using an RF average power meter** (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data.

4.6 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	FCC: 1.≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2.≤30.00dBm/500KHz for 5725MHz-5850MHz IC: 1.For the 5.15-5.25 GHz, The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. 3. For 5725MHz-5850MHz, the output power spectral density shall not exceed 30 dBm in any 500 kHz band.
Test setup:	
Test procedure:	Refer to ANSI C63.10-2020
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data

4.7 Radiated Band Edge

<table>
<tr><td>Test Requirement:</td><td>15.205&15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
(4) For transmitters operating solely in the 5.725-5.850 GHz band:
All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values
</td></tr>
</table>

	of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test setup:	Above 1GHz 
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2,

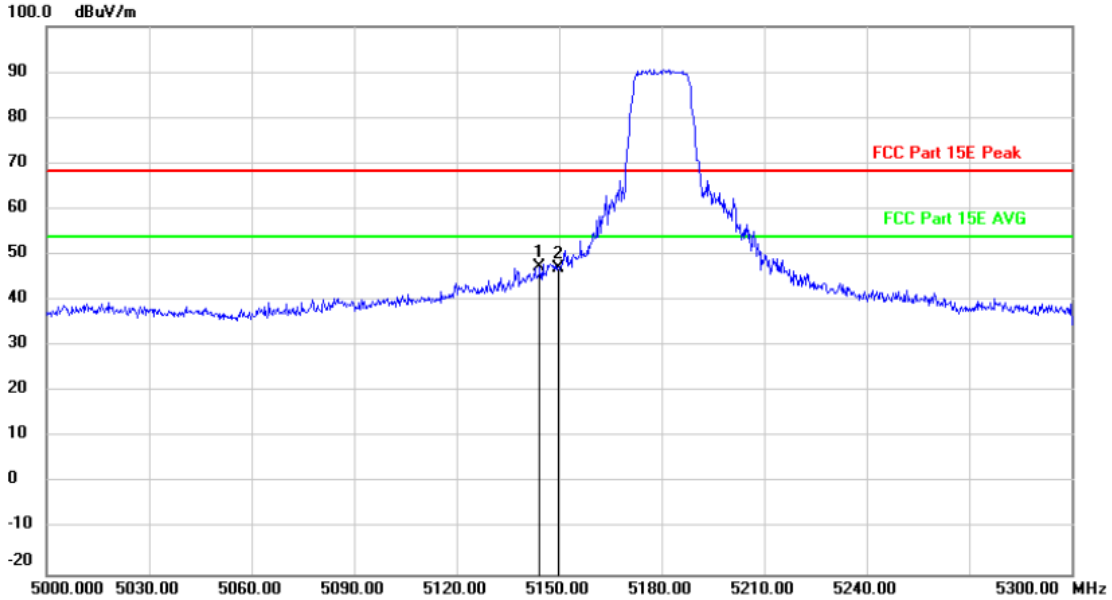
For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Measurement Data:

Band1&Band2

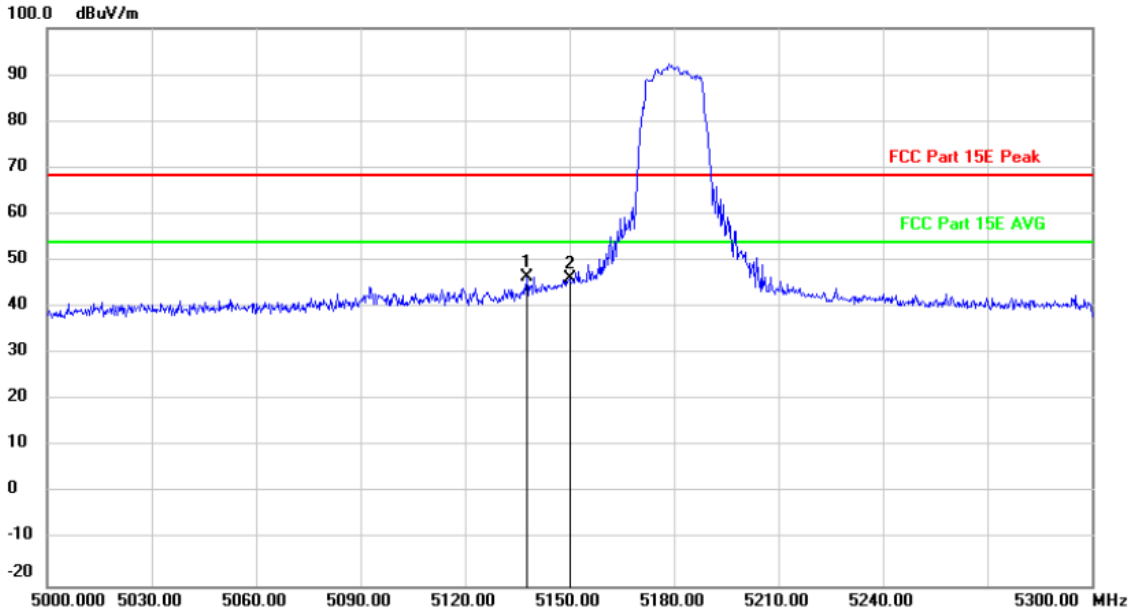
A-L Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5144.330	60.61	-13.29	47.32	68.20	-20.88	peak			
2		5150.000	60.41	-13.30	47.11	68.20	-21.09	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

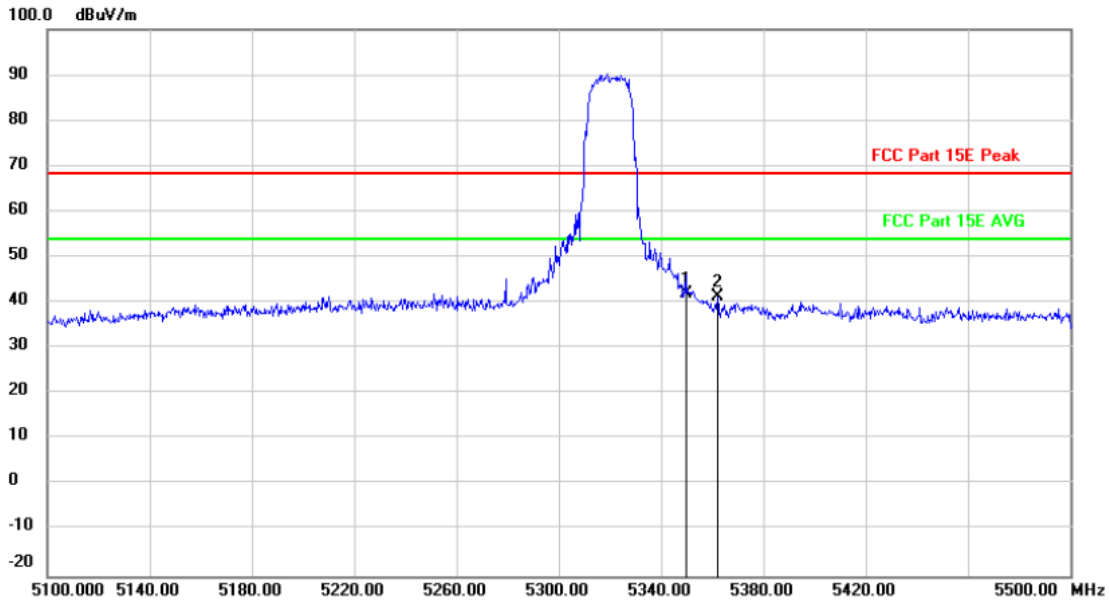
A-L Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5137.890	59.85	-13.30	46.55	68.20	-21.65	peak			
2		5150.000	59.43	-13.30	46.13	68.20	-22.07	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

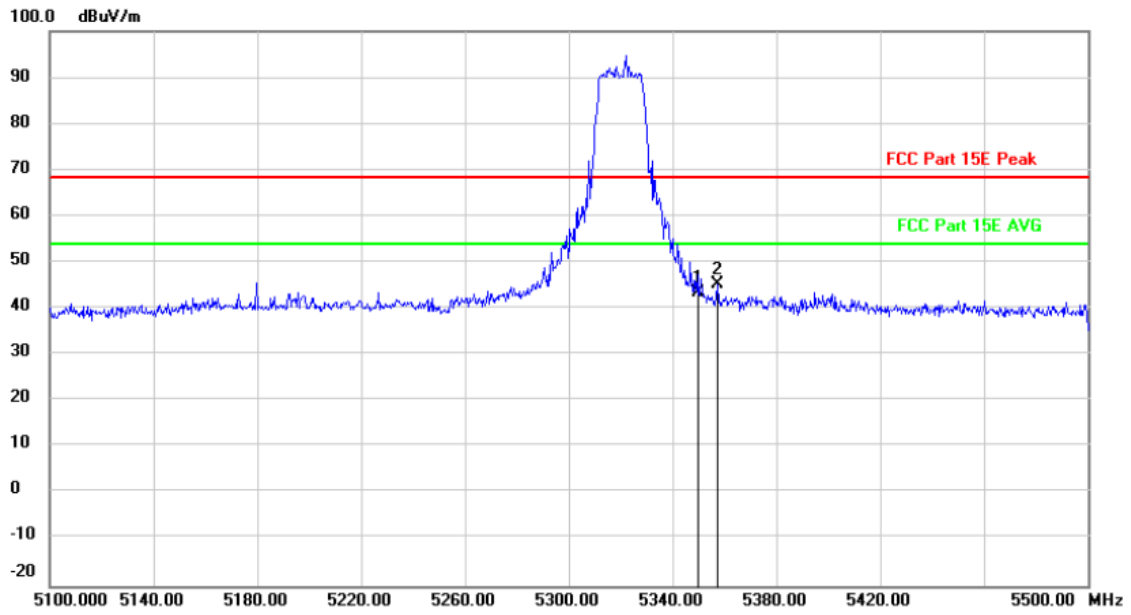
A-H Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5350.000	55.36	-13.36	42.00	68.20	-26.20	peak			
2		5362.147	54.59	-13.32	41.27	68.20	-26.93	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

A-H Horizontal

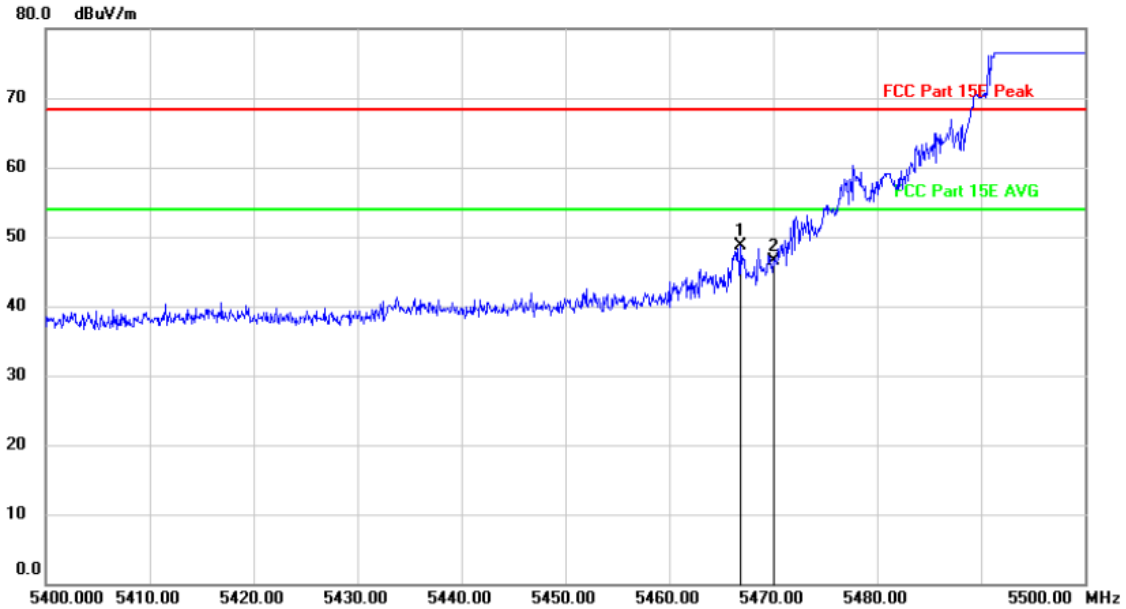


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5350.000	56.77	-13.36	43.41	68.20	-24.79	peak			
2	*	5357.293	58.71	-13.34	45.37	68.20	-22.83	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Band3

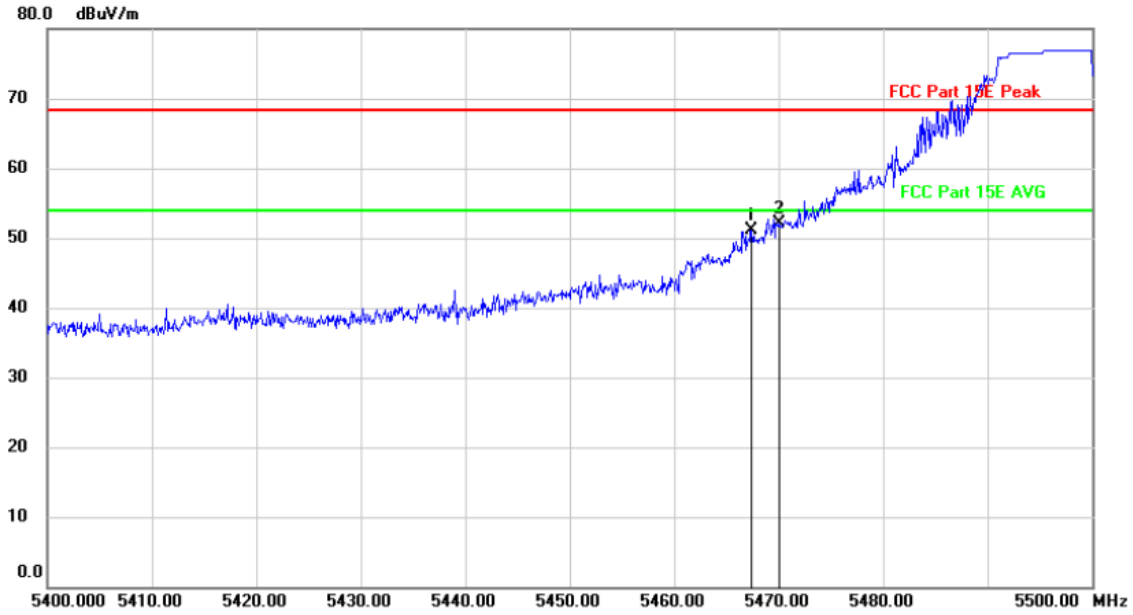
A-L Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5466.830	61.70	-13.07	48.63	68.20	-19.57	peak			
2		5470.000	59.65	-13.08	46.57	68.20	-21.63	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

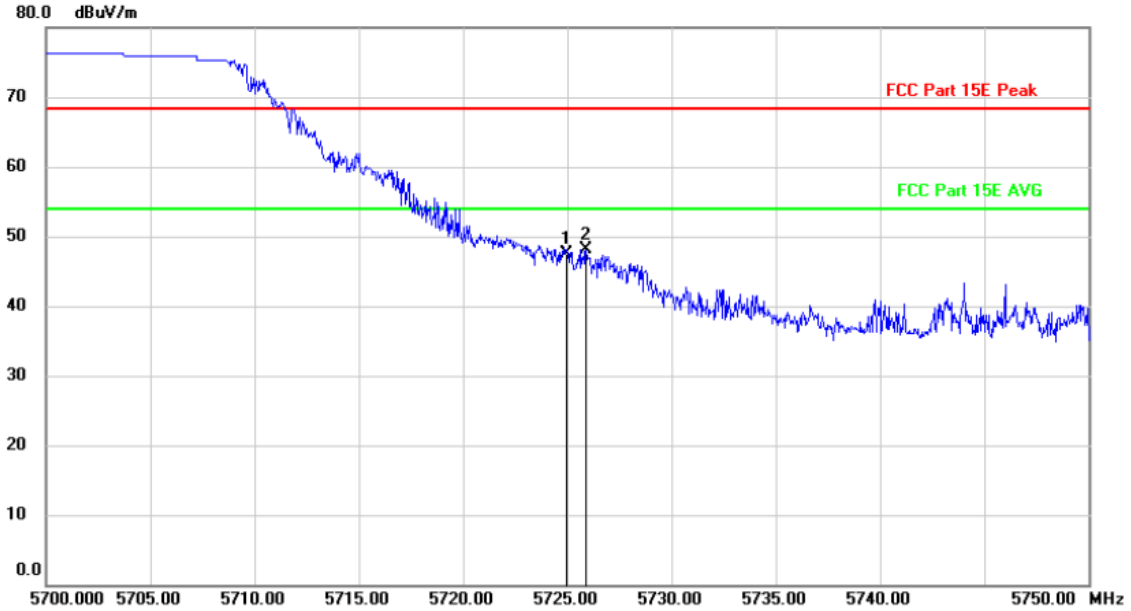
A-L Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5467.473	64.17	-13.07	51.10	68.20	-17.10	peak			
2	*	5470.000	65.22	-13.08	52.14	68.20	-16.06	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

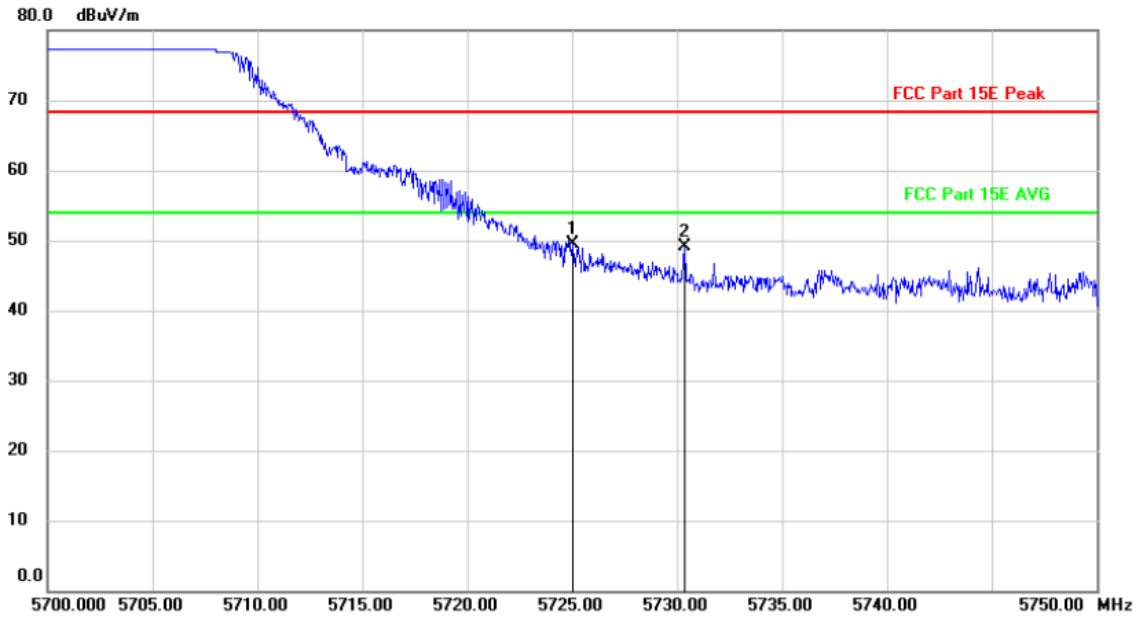
A-H Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5725.000	59.95	-12.54	47.41	68.20	-20.79	peak			
2	*	5725.902	60.59	-12.55	48.04	68.20	-20.16	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

A-H Horizontal

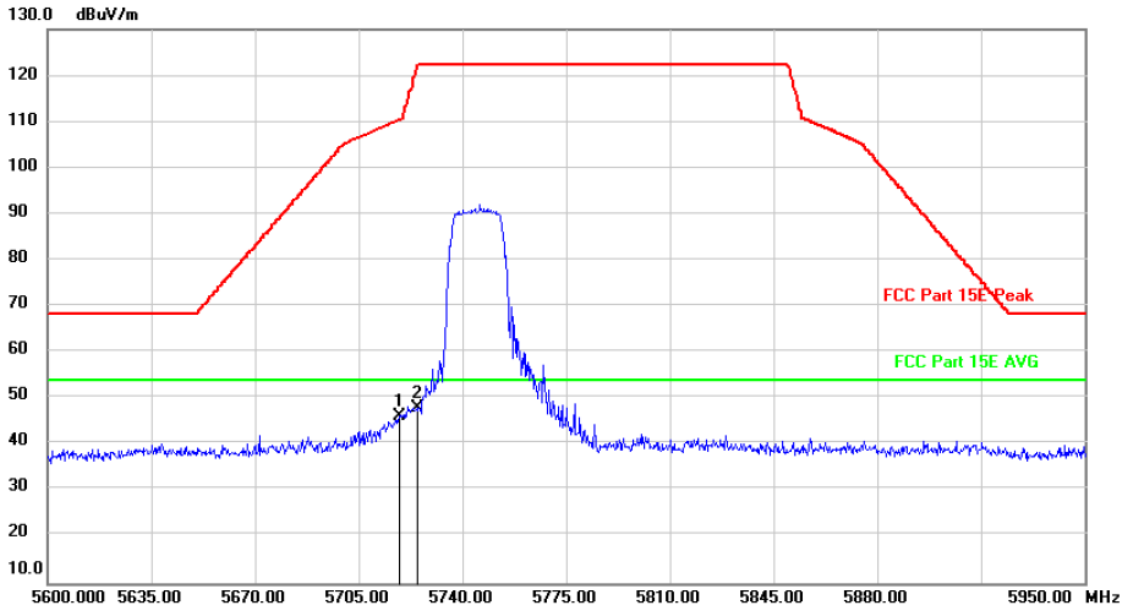


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5725.000	62.07	-12.54	49.53	68.20	-18.67	peak			
2		5730.365	61.59	-12.53	49.06	68.20	-19.14	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Band4

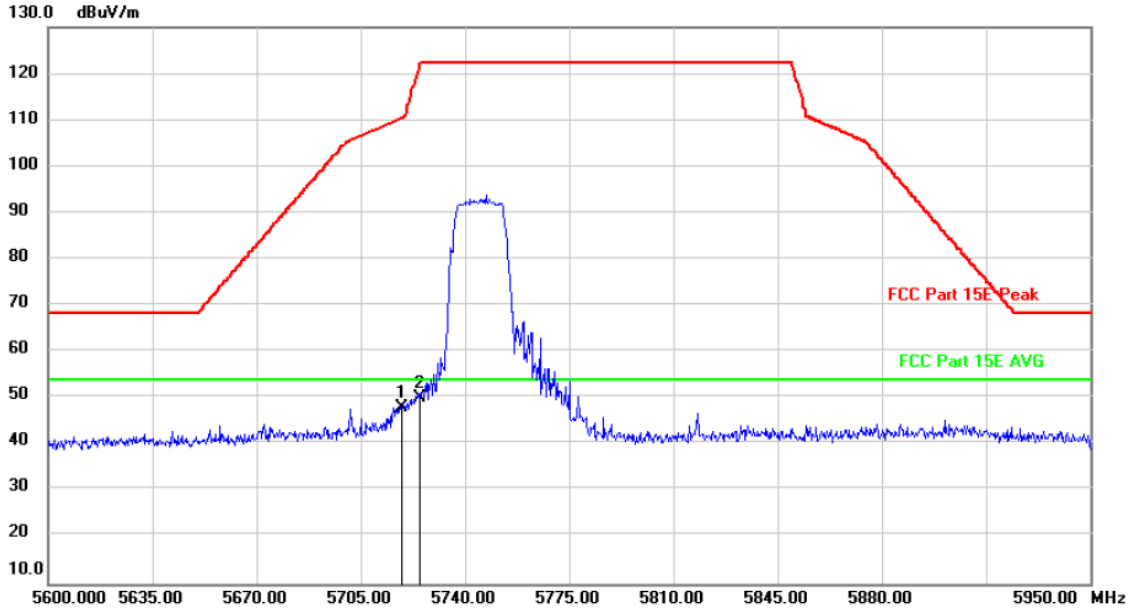
A-L Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5718.650	58.77	-12.55	46.22	110.4	-64.20	peak			
2		5725.000	60.35	-12.54	47.81	122.2	-74.39	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

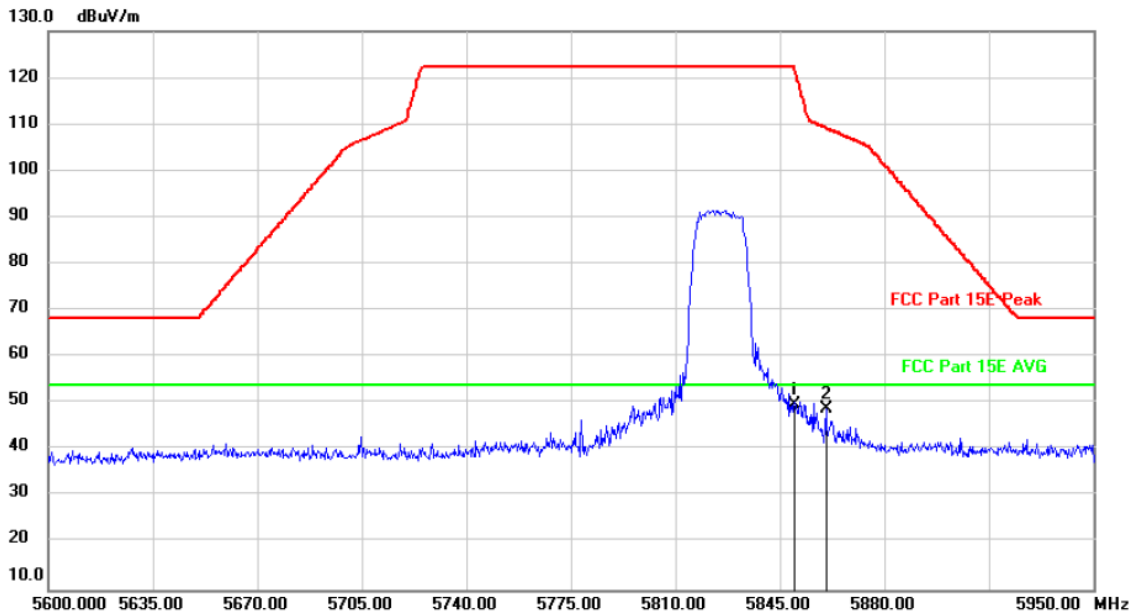
A-L Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5718.755	60.59	-12.55	48.04	110.4	-62.41	peak			
2		5725.000	62.61	-12.54	50.07	122.2	-72.13	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

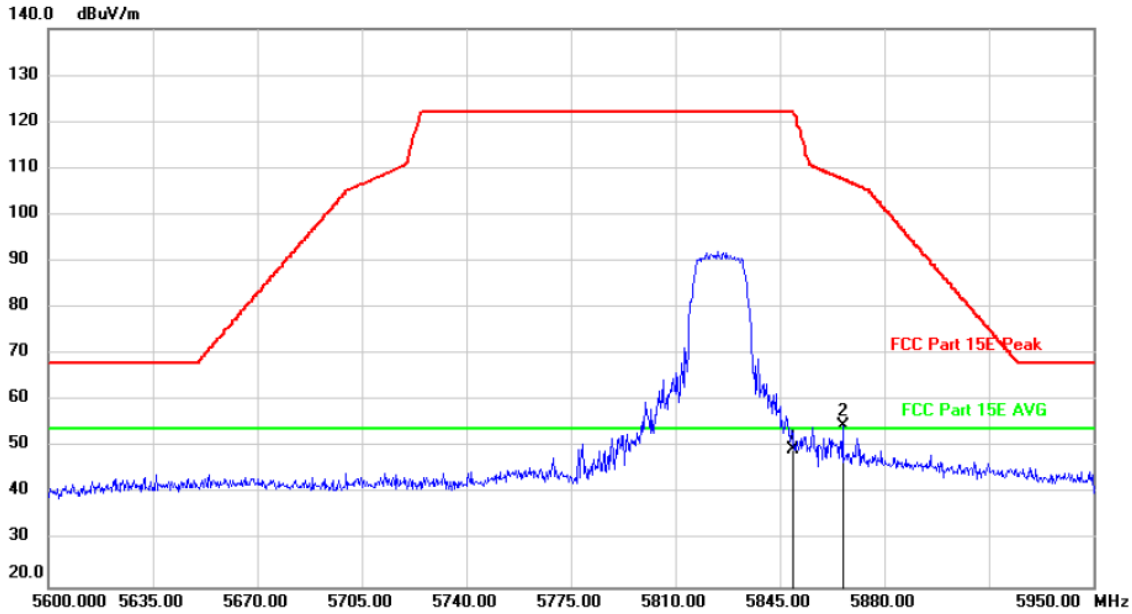
A-H Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5850.000	62.07	-12.20	49.87	122.2	-72.33	peak			
2	*	5860.400	61.01	-12.18	48.83	109.2	-60.46	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

A-H Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5850.000	61.79	-12.20	49.59	122.2	-72.61	peak			
2	*	5866.198	66.72	-12.17	54.55	107.6	-53.11	peak			

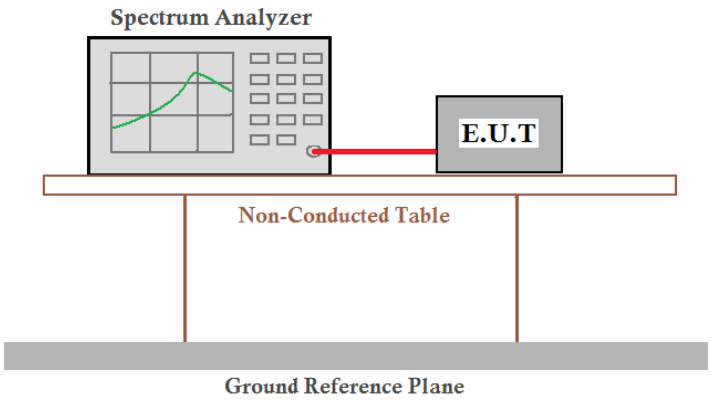
Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Note:

1. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

2. This Report only show the test plots of the worst mode(802.11a).

4.8 Conducted Band Edge

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. 2. For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. 3. For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz. 4. For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Test setup:	
Test procedure:	The procedure for peak unwanted emissions measurements above 1000 MHz is as follows: a) Peak emission levels are measured by setting the instrument as follows: 1) RBW = 1 MHz. 2) VBW ≥ [3 × RBW]. 3) Detector = peak. 4) Sweep time = auto. 5) Trace mode = max hold. 6) Allow sweeps to continue until the trace stabilizes.
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data

4.9 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205, RSS-Gen Issue 5
Test Method:	ANSI C63.10-2020
Test Frequency Range:	30MHz to 40GHz
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Frequency	Detector	RBW	VBW	Value
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	AV	1MHz	3MHz	Average Value

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	74.0	Peak Value
	54.0	Average Value

Test Procedure:

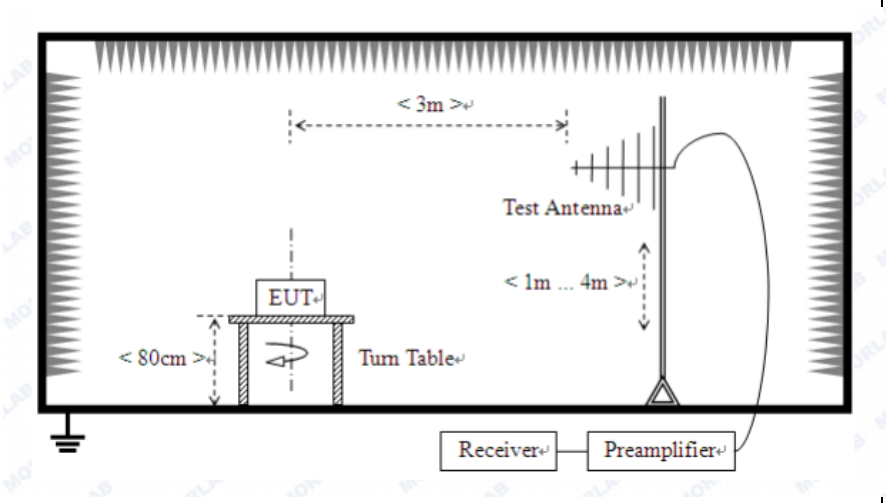
Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:

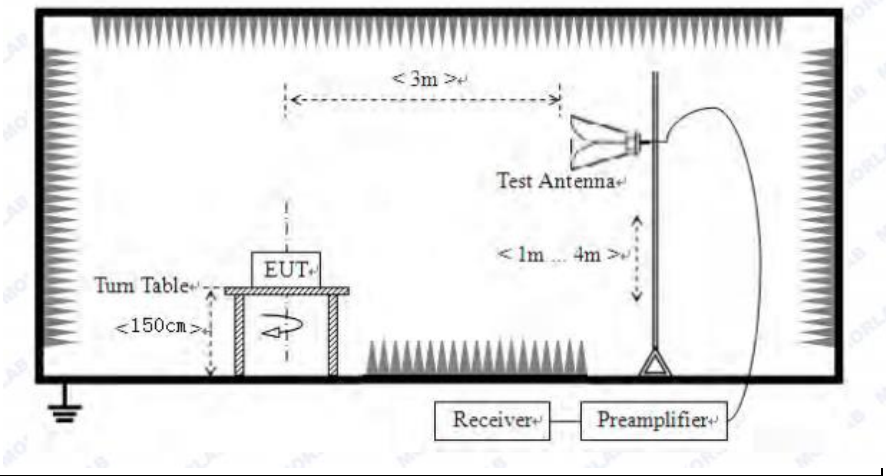
1>.Below 1GHz test procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

2>.Above 1GHz test procedure:

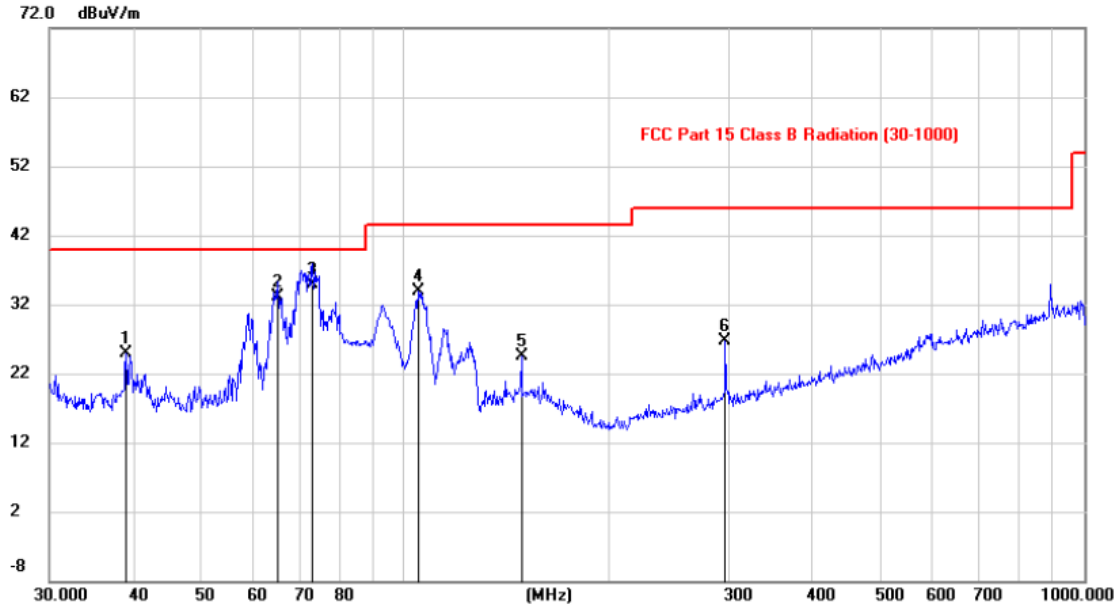
1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver.
3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.

	4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	Below 1GHz  Above 1GHz

	
Test results:	Pass

30MHz – 1000MHz:

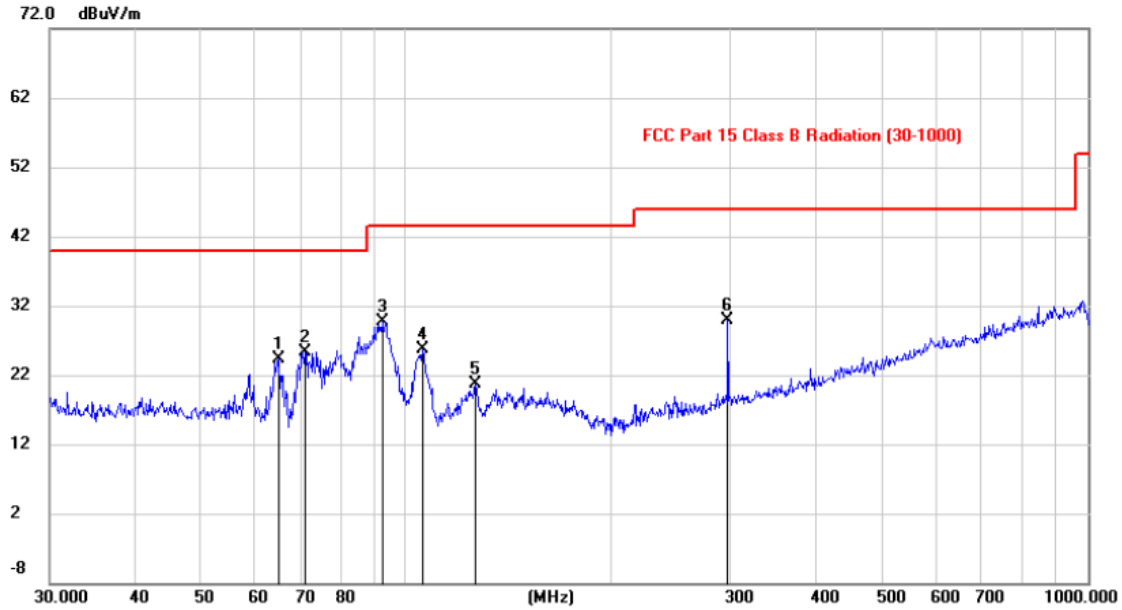
Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38.9470	11.11	13.88	24.99	40.00	-15.01	peak			
2		64.9775	21.24	11.96	33.20	40.00	-6.80	QP			
3	*	73.1282	24.54	10.29	34.83	40.00	-5.17	QP			
4		104.8052	23.04	10.78	33.82	43.50	-9.68	peak			
5		148.4931	9.97	14.48	24.45	43.50	-19.05	peak			
6		297.0157	12.54	14.14	26.68	46.00	-19.32	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		64.8941	12.24	11.98	24.22	40.00	-15.78	peak			
2		71.1053	14.62	10.77	25.39	40.00	-14.61	peak			
3	*	92.4300	19.90	9.72	29.62	43.50	-13.88	peak			
4		105.8640	14.86	10.89	25.75	43.50	-17.75	peak			
5		126.3433	7.78	12.90	20.68	43.50	-22.82	peak			
6		297.0157	15.84	14.14	29.98	46.00	-16.02	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark: All modes have been tested, and only worst data of 802.11a mode, Channel 5180MHz was listed in this report.

Above 1GHz:

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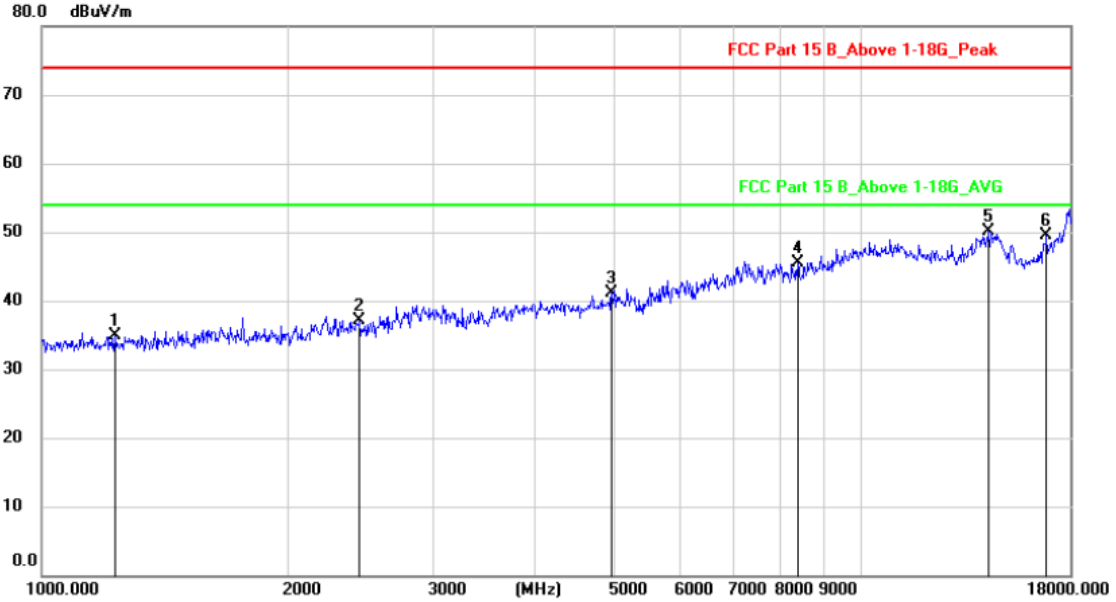
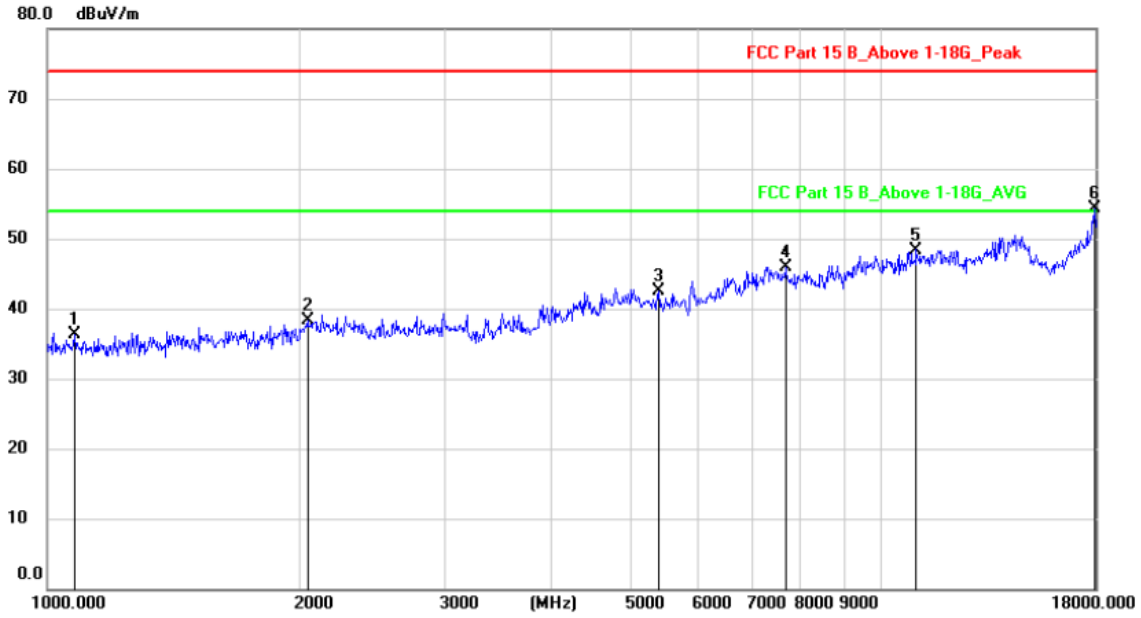
802.11a 5180MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1230.633	54.54	-19.59	34.95	74.00	-39.05	peak			
2		2442.751	55.79	-18.76	37.03	74.00	-36.97	peak			
3		4971.266	54.81	-13.63	41.18	74.00	-32.82	peak			
4		8391.483	53.92	-8.48	45.44	74.00	-28.56	peak			
5	*	14359.92	52.14	-2.11	50.03	74.00	-23.97	peak			
6		16873.15	52.49	-2.99	49.50	74.00	-24.50	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

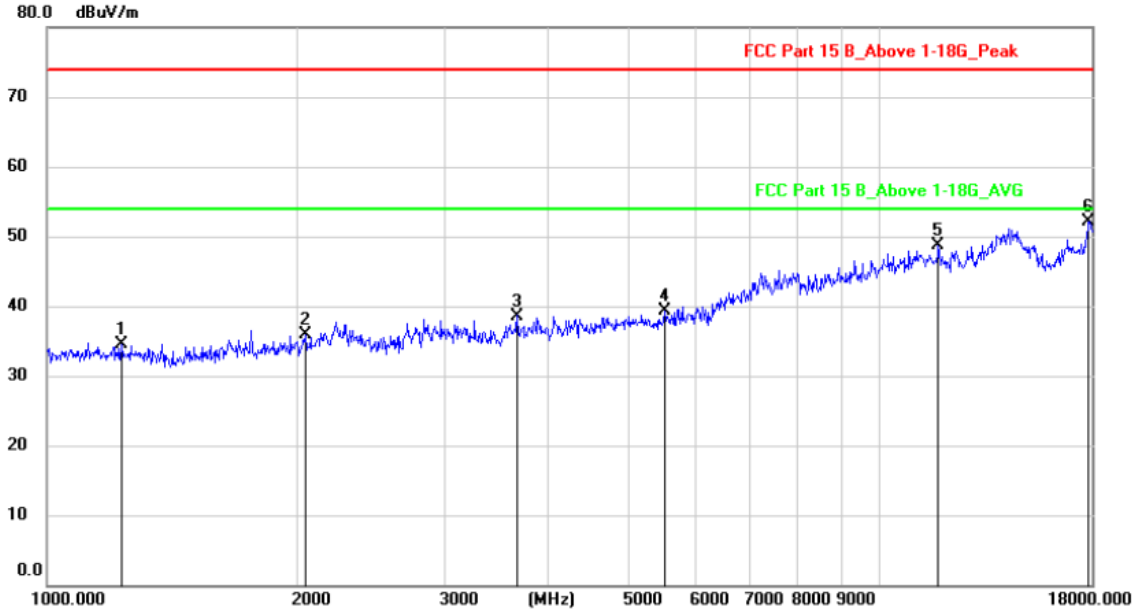
802.11a 5180MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1078.877	56.24	-19.92	36.32	74.00	-37.68	peak			
2		2048.486	58.11	-19.89	38.22	74.00	-35.78	peak			
3		5401.759	55.72	-13.21	42.51	74.00	-31.49	peak			
4		7658.263	54.21	-8.34	45.87	74.00	-28.13	peak			
5		10993.17	53.30	-4.90	48.40	74.00	-25.60	peak			
6	*	17991.33	51.33	3.05	54.38	74.00	-19.62	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

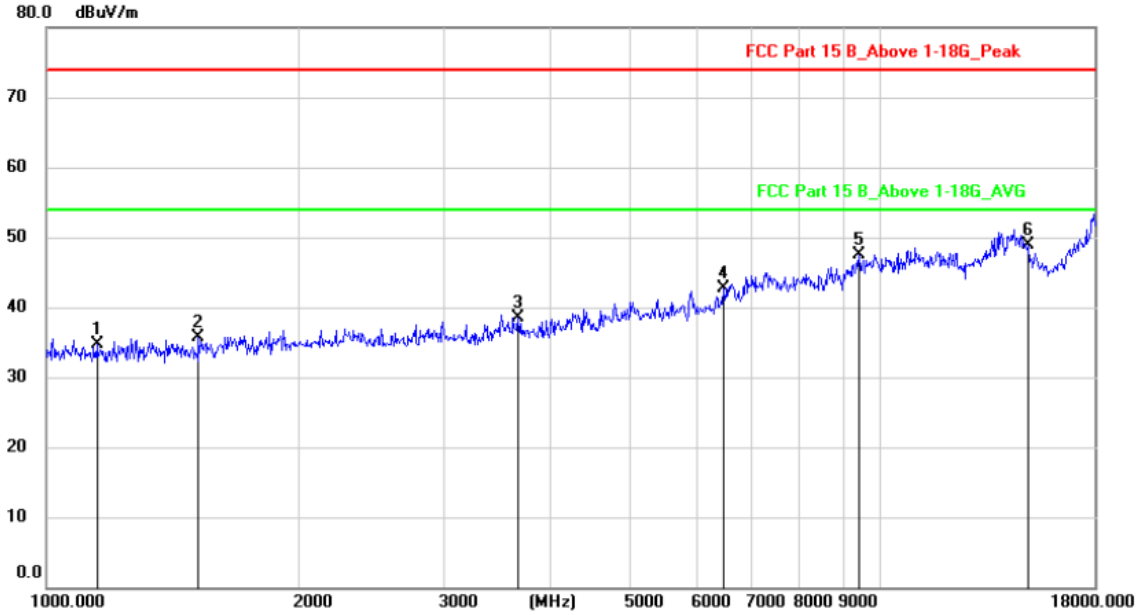
802.11a 5200MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1230.633	54.04	-19.59	34.45	74.00	-39.55	peak			
2		2047.500	55.75	-19.90	35.85	74.00	-38.15	peak			
3		3672.807	55.28	-16.68	38.60	74.00	-35.40	peak			
4		5522.263	52.29	-12.99	39.30	74.00	-34.70	peak			
5		11790.77	53.73	-5.09	48.64	74.00	-25.36	peak			
6	*	17860.07	50.07	2.09	52.16	74.00	-21.84	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

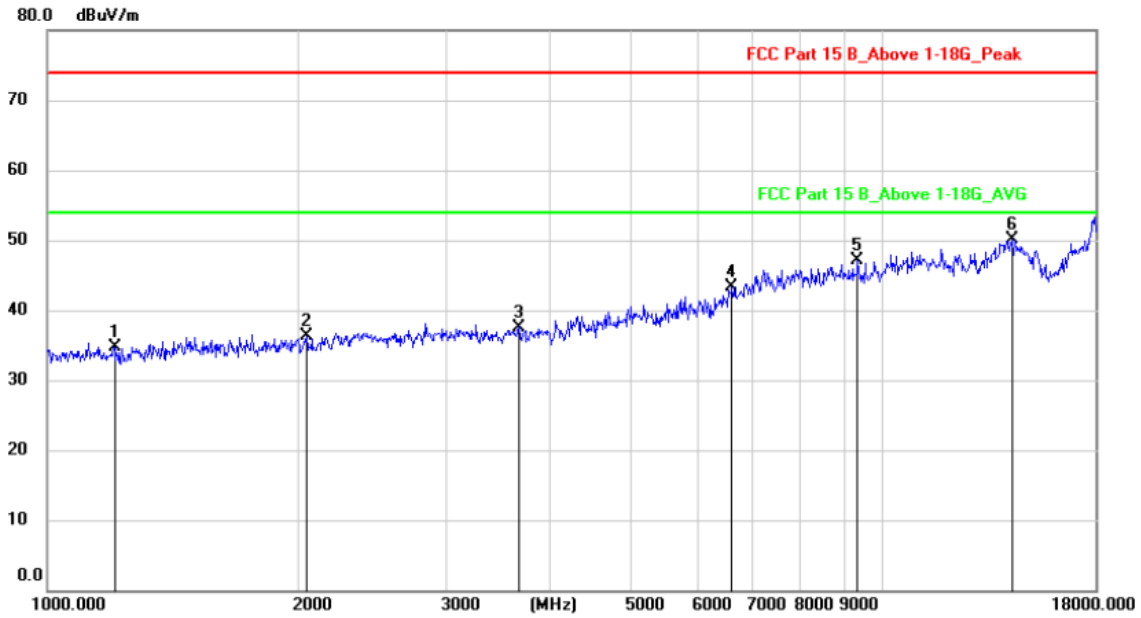
802.11a 5200MHz- Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1151.261	54.50	-19.83	34.67	74.00	-39.33	peak			
2		1522.797	56.10	-20.30	35.80	74.00	-38.20	peak			
3		3675.285	55.18	-16.67	38.51	74.00	-35.49	peak			
4		6475.015	53.03	-10.35	42.68	74.00	-31.32	peak			
5		9419.972	54.60	-7.11	47.49	74.00	-26.51	peak			
6	*	15025.12	52.80	-3.82	48.98	74.00	-25.02	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

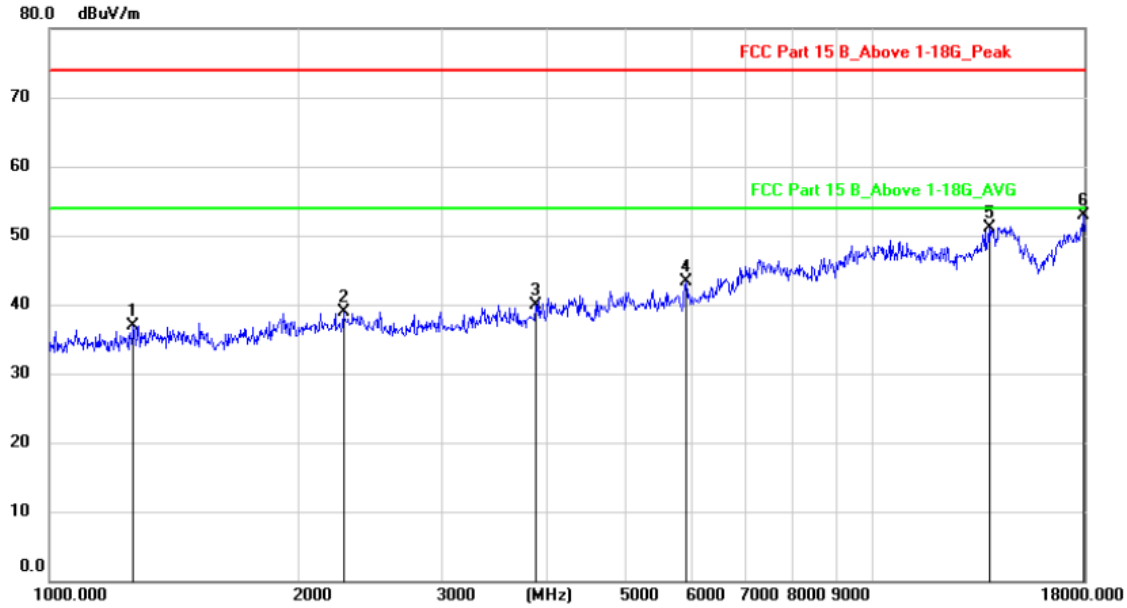
802.11a 5240MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1203.315	54.33	-19.64	34.69	74.00	-39.31	peak			
2		2047.500	56.25	-19.90	36.35	74.00	-37.65	peak			
3		3672.807	54.28	-16.68	37.60	74.00	-36.40	peak			
4		6611.813	53.41	-10.02	43.39	74.00	-30.61	peak			
5		9339.543	54.11	-7.09	47.02	74.00	-26.98	peak			
6	*	14359.92	52.14	-2.11	50.03	74.00	-23.97	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

802.11a 5240MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1265.380	56.45	-19.53	36.92	74.00	-37.08	peak			
2		2275.972	57.46	-18.52	38.94	74.00	-35.06	peak			
3		3890.630	55.95	-16.06	39.89	74.00	-34.11	peak			
4		5920.077	55.33	-12.02	43.31	74.00	-30.69	peak			
5		13807.72	54.26	-3.16	51.10	74.00	-22.90	peak			
6	*	17991.33	49.83	3.05	52.88	74.00	-21.12	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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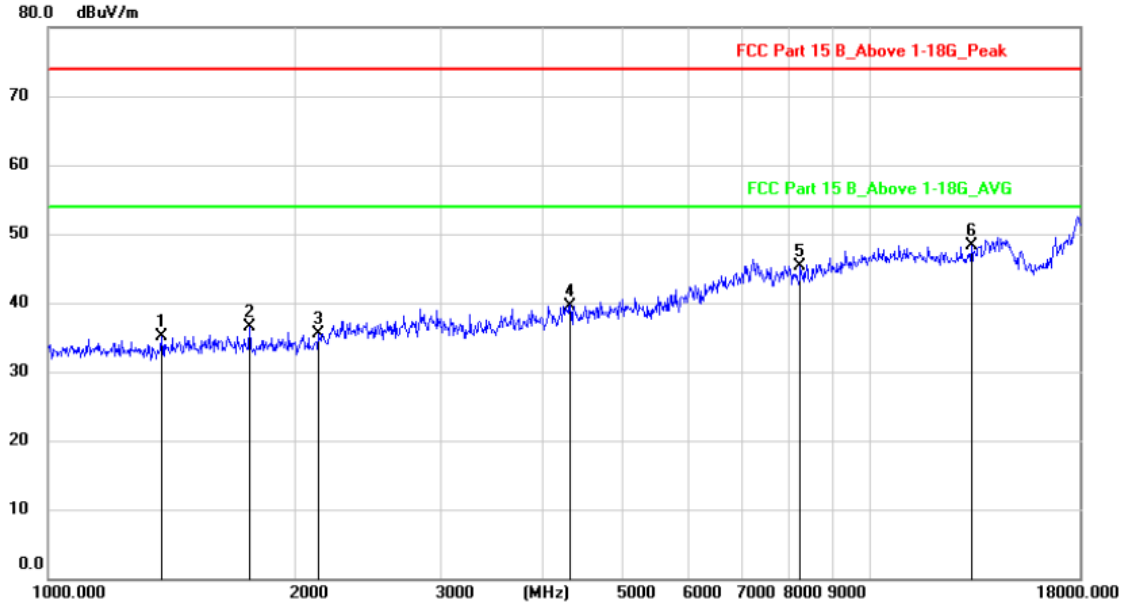
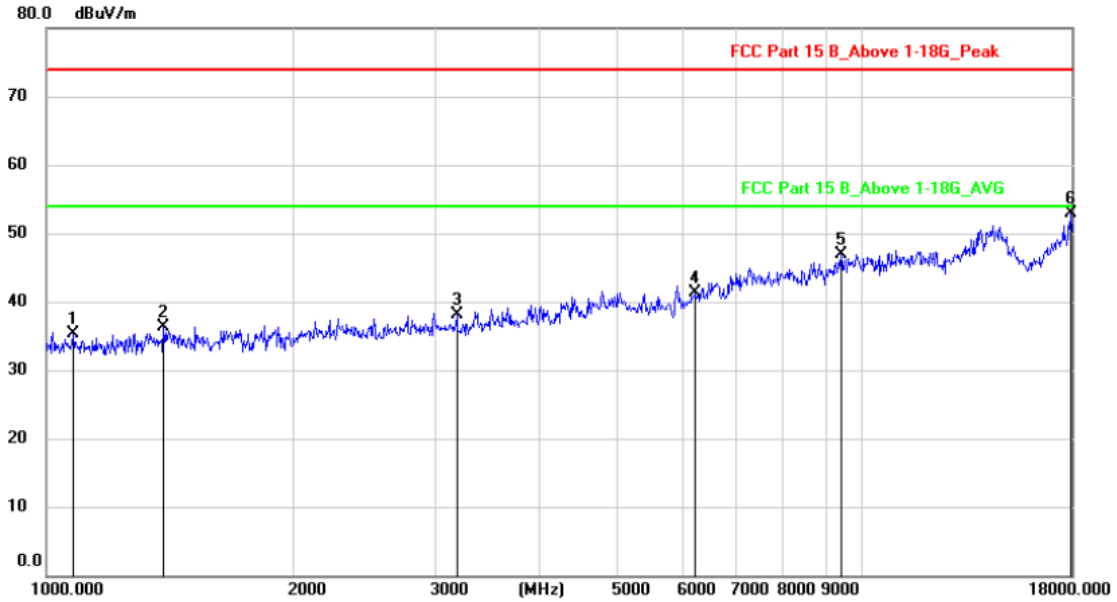
802.11a 5260MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1375.354	54.70	-19.62	35.08	74.00	-38.92	peak			
2		1760.415	57.28	-20.76	36.52	74.00	-37.48	peak			
3		2137.399	54.68	-19.16	35.52	74.00	-38.48	peak			
4		4316.859	54.85	-15.25	39.60	74.00	-34.40	peak			
5		8239.269	53.74	-8.39	45.35	74.00	-28.65	peak			
6	*	13303.65	52.50	-4.22	48.28	74.00	-25.72	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

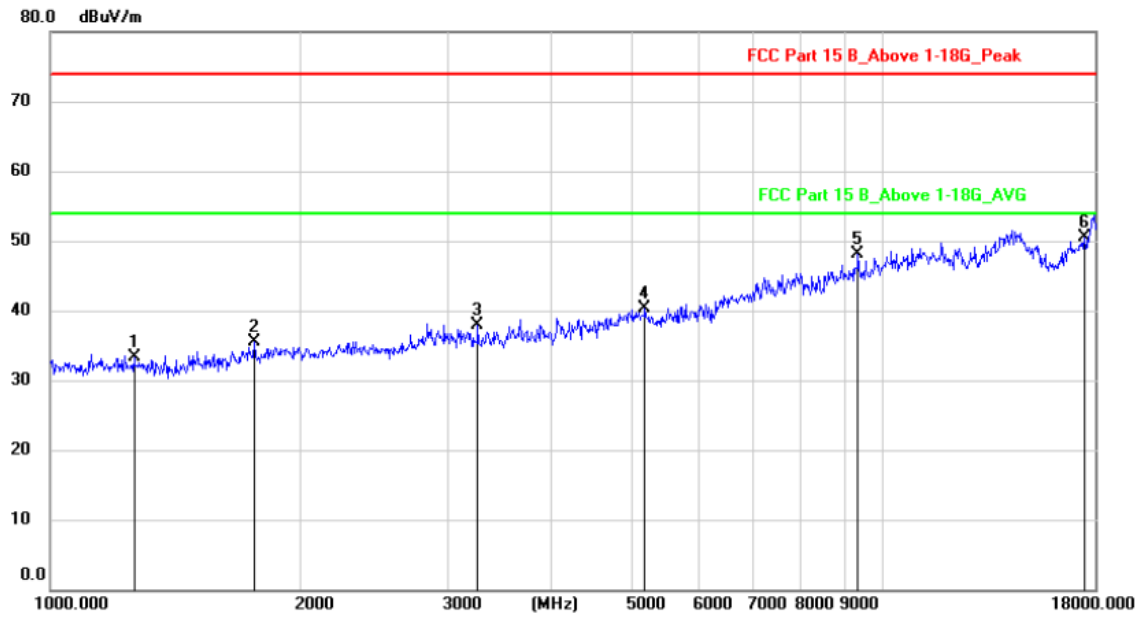
802.11a 5260MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1078.877	55.24	-19.92	35.32	74.00	-38.68	peak			
2		1390.946	55.88	-19.66	36.22	74.00	-37.78	peak			
3		3178.896	55.53	-17.48	38.05	74.00	-35.95	peak			
4		6242.844	52.67	-11.34	41.33	74.00	-32.67	peak			
5		9419.972	54.10	-7.11	46.99	74.00	-27.01	peak			
6	*	17991.33	49.83	3.05	52.88	74.00	-21.12	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

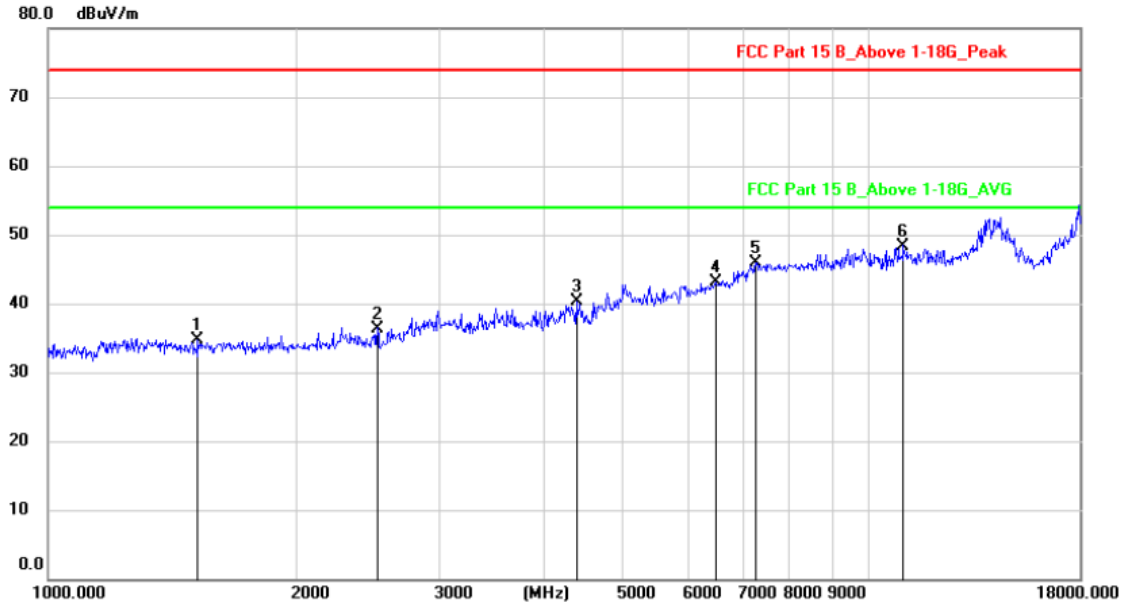
802.11a 5280MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1263.066	52.75	-19.53	33.22	74.00	-40.78	peak			
2		1760.415	56.28	-20.76	35.52	74.00	-38.48	peak			
3		3264.247	55.48	-17.60	37.88	74.00	-36.12	peak			
4		5182.543	53.63	-13.35	40.28	74.00	-33.72	peak			
5		9339.543	55.11	-7.09	48.02	74.00	-25.98	peak			
6	*	17512.47	51.25	-0.77	50.48	74.00	-23.52	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

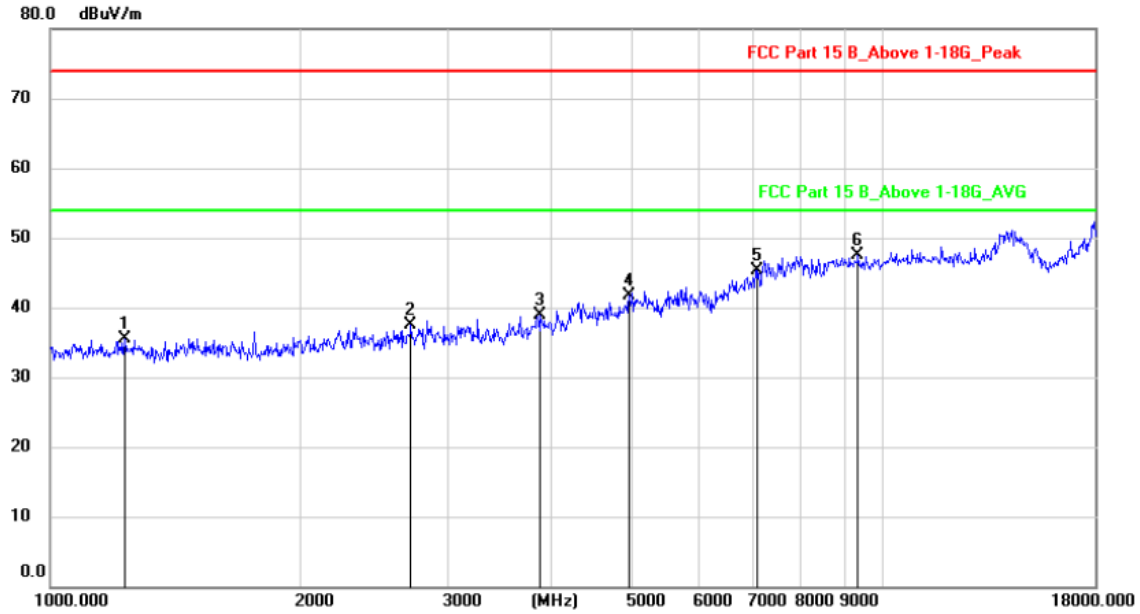
802.11a 5280MHz- Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1522.797	55.10	-20.30	34.80	74.00	-39.20	peak			
2		2515.840	55.11	-18.71	36.40	74.00	-37.60	peak			
3		4397.881	55.33	-15.04	40.29	74.00	-33.71	peak			
4		6501.269	53.34	-10.25	43.09	74.00	-30.91	peak			
5		7279.828	54.11	-8.14	45.97	74.00	-28.03	peak			
6	*	10993.17	53.30	-4.90	48.40	74.00	-25.60	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

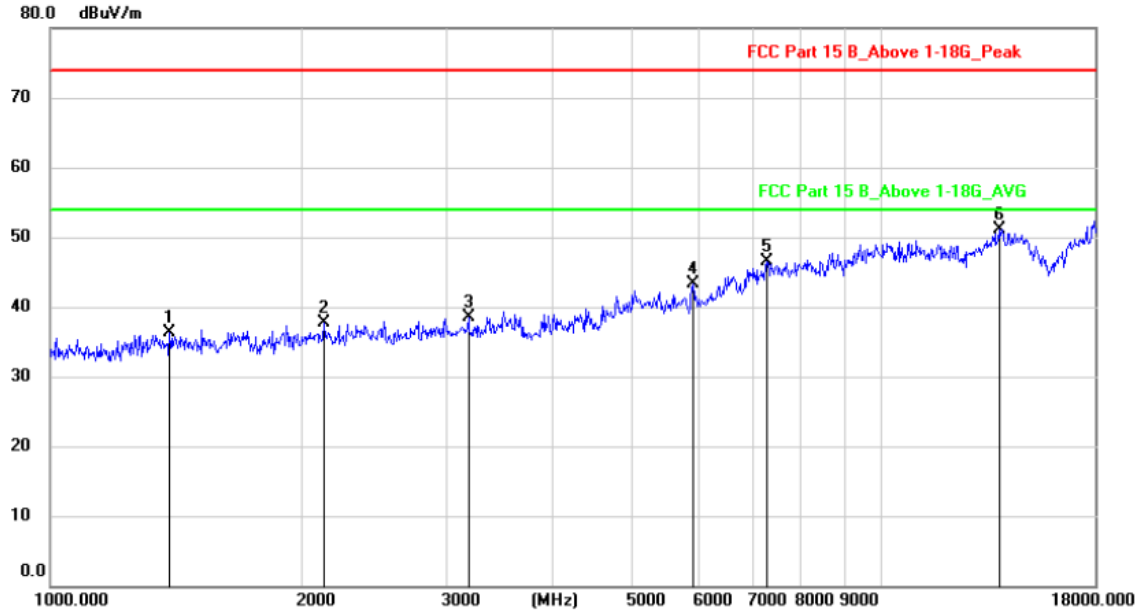
802.11a 5320MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1230.633	55.04	-19.59	35.45	74.00	-38.55	peak			
2		2716.374	55.73	-18.15	37.58	74.00	-36.42	peak			
3		3883.140	54.90	-16.08	38.82	74.00	-35.18	peak			
4		4971.266	55.31	-13.63	41.68	74.00	-32.32	peak			
5		7065.616	53.91	-8.58	45.33	74.00	-28.67	peak			
6	*	9339.543	54.61	-7.09	47.52	74.00	-26.48	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

802.11a 5320MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1390.946	55.88	-19.66	36.22	74.00	-37.78	peak			
2		2133.079	56.87	-19.20	37.67	74.00	-36.33	peak			
3		3178.896	56.03	-17.48	38.55	74.00	-35.45	peak			
4		5920.077	55.33	-12.02	43.31	74.00	-30.69	peak			
5		7279.828	54.61	-8.14	46.47	74.00	-27.53	peak			
6	*	13807.72	54.26	-3.16	51.10	74.00	-22.90	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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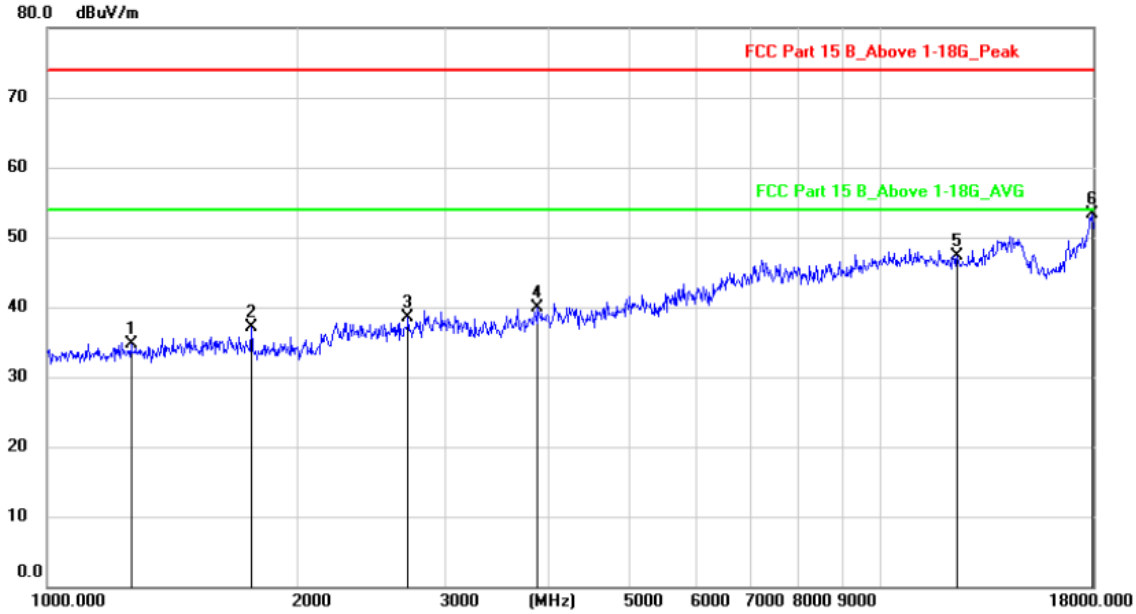
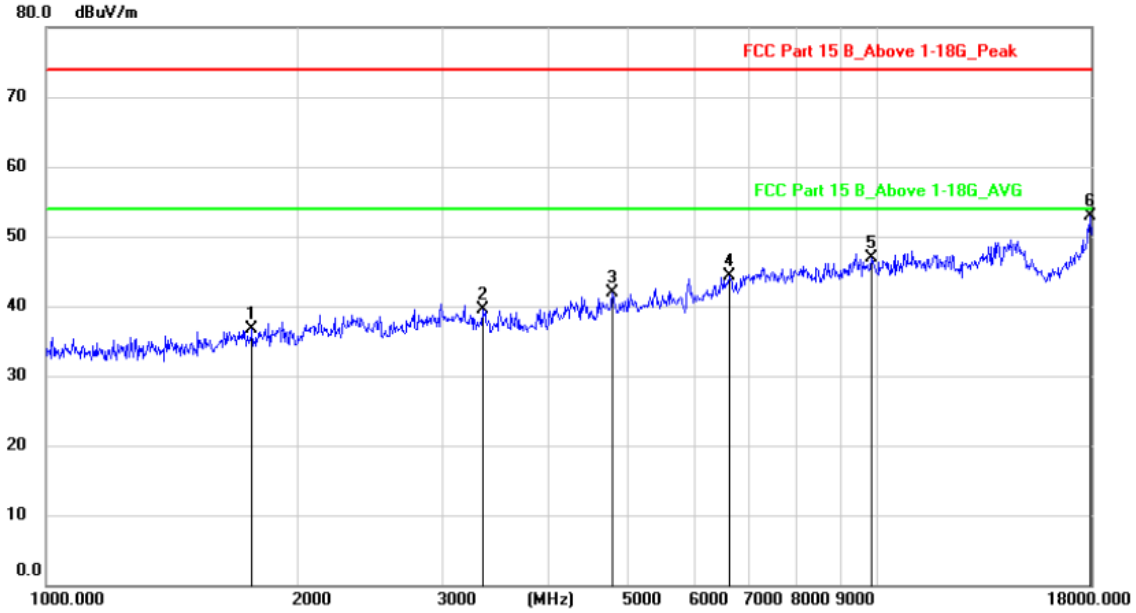
802.11a 5500MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1263.066	54.25	-19.53	34.72	74.00	-39.28	peak			
2		1760.415	57.78	-20.76	37.02	74.00	-36.98	peak			
3		2716.374	56.73	-18.15	38.58	74.00	-35.42	peak			
4		3883.140	55.90	-16.08	39.82	74.00	-34.18	peak			
5		12396.54	52.96	-5.56	47.40	74.00	-26.60	peak			
6	*	17980.93	50.26	3.00	53.26	74.00	-20.74	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

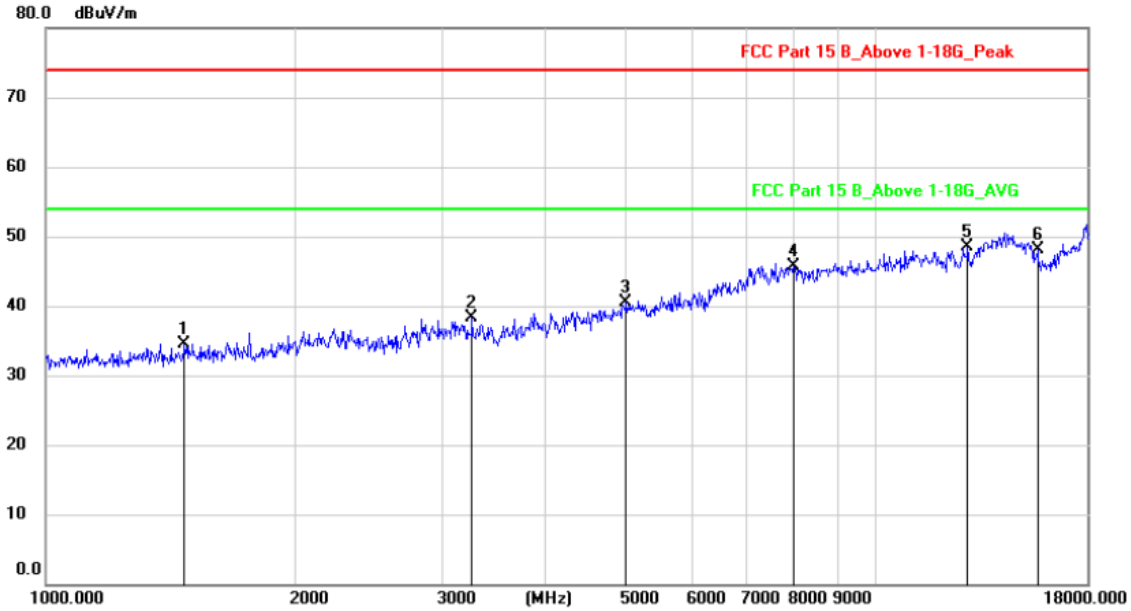
802.11a 5500MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1767.212	57.50	-20.76	36.74	74.00	-37.26	peak			
2		3356.414	57.08	-17.55	39.53	74.00	-34.47	peak			
3		4794.862	55.95	-13.99	41.96	74.00	-32.04	peak			
4		6636.064	54.30	-10.01	44.29	74.00	-29.71	peak			
5		9824.103	53.60	-6.66	46.94	74.00	-27.06	peak			
6	*	17991.33	49.83	3.05	52.88	74.00	-21.12	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

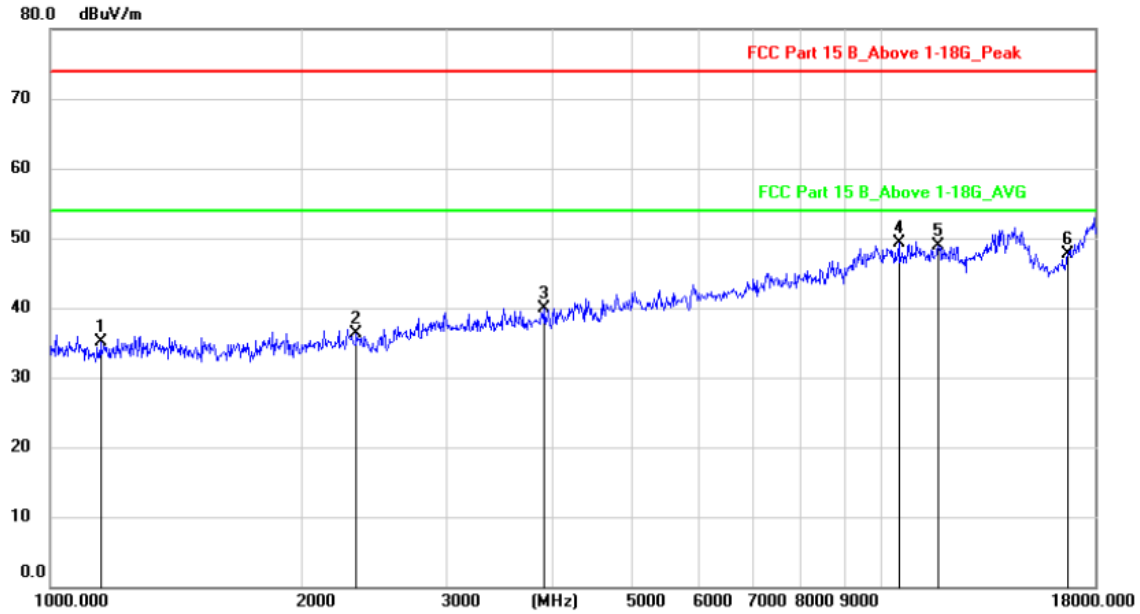
802.11a 5580MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1471.027	54.58	-20.01	34.57	74.00	-39.43	peak			
2		3264.247	55.98	-17.60	38.38	74.00	-35.62	peak			
3		5016.493	54.00	-13.49	40.51	74.00	-33.49	peak			
4		7982.198	53.77	-7.99	45.78	74.00	-28.22	peak			
5	*	12923.38	53.61	-5.06	48.55	74.00	-25.45	peak			
6		15705.99	54.46	-6.42	48.04	74.00	-25.96	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

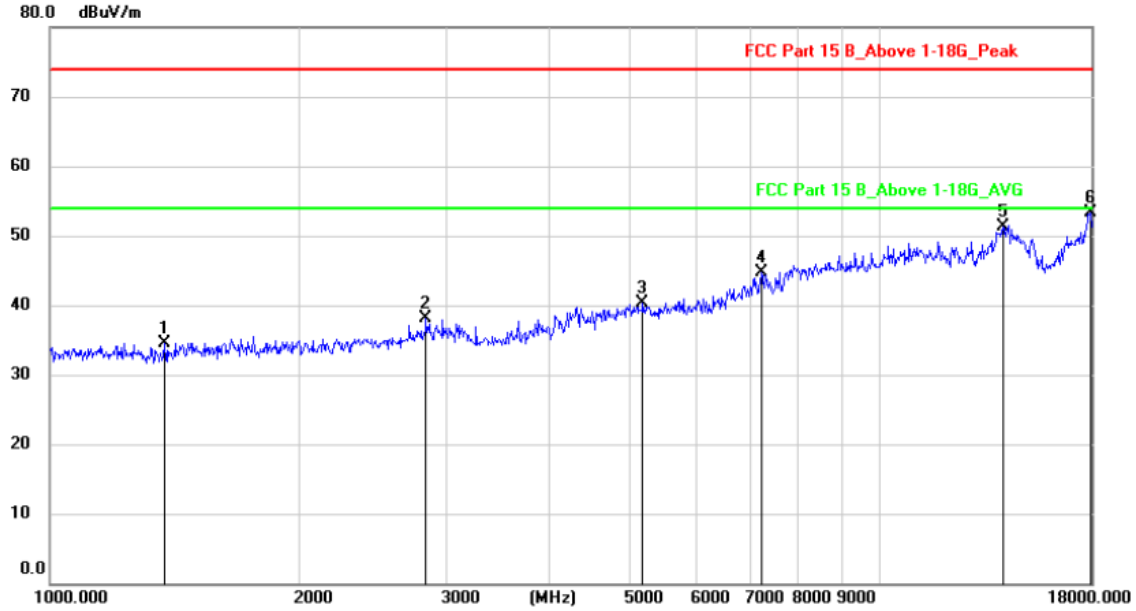
802.11a 5580MHz- Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1151.261	55.00	-19.83	35.17	74.00	-38.83	peak			
2		2337.981	54.87	-18.58	36.29	74.00	-37.71	peak			
3		3927.917	56.03	-16.03	40.00	74.00	-34.00	peak			
4	*	10474.13	55.02	-5.73	49.29	74.00	-24.71	peak			
5		11683.35	53.75	-4.86	48.89	74.00	-25.11	peak			
6		16733.92	51.35	-3.56	47.79	74.00	-26.21	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

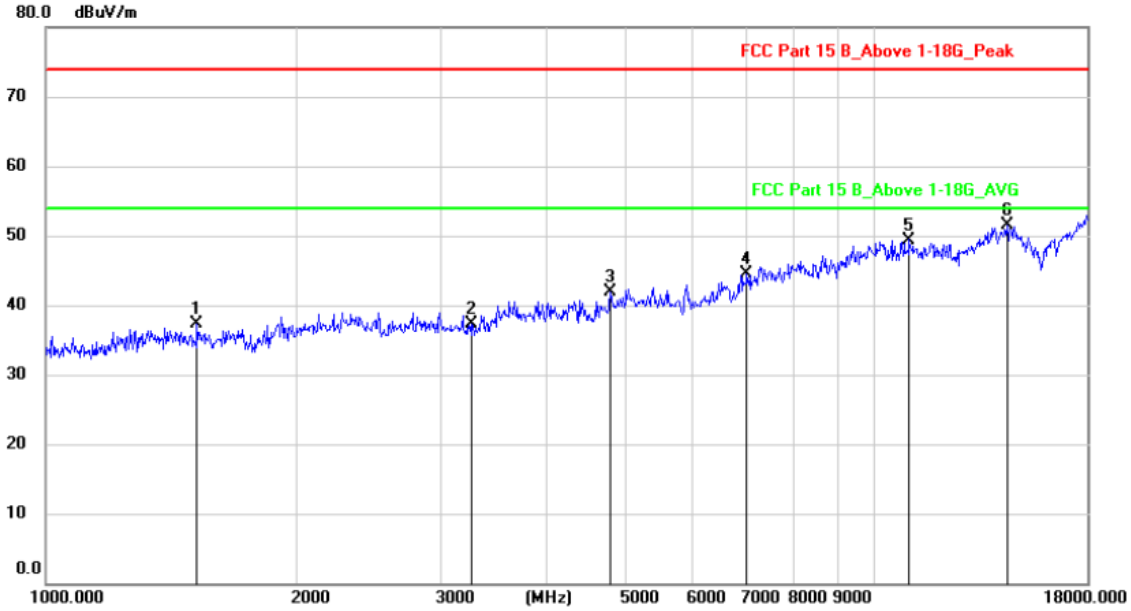
802.11a 5700MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1375.354	54.20	-19.62	34.58	74.00	-39.42	peak			
2		2845.768	55.88	-17.85	38.03	74.00	-35.97	peak			
3		5182.543	53.63	-13.35	40.28	74.00	-33.72	peak			
4		7220.455	52.90	-8.15	44.75	74.00	-29.25	peak			
5		14083.15	53.89	-2.54	51.35	74.00	-22.65	peak			
6	*	17980.93	50.26	3.00	53.26	74.00	-20.74	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

802.11a 5700MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1522.797	57.60	-20.30	37.30	74.00	-36.70	peak			
2		3265.820	54.86	-17.60	37.26	74.00	-36.74	peak			
3		4794.862	55.95	-13.99	41.96	74.00	-32.04	peak			
4		6997.868	53.45	-8.91	44.54	74.00	-29.46	peak			
5		10993.17	54.30	-4.90	49.40	74.00	-24.60	peak			
6	*	14427.87	53.61	-2.09	51.52	74.00	-22.48	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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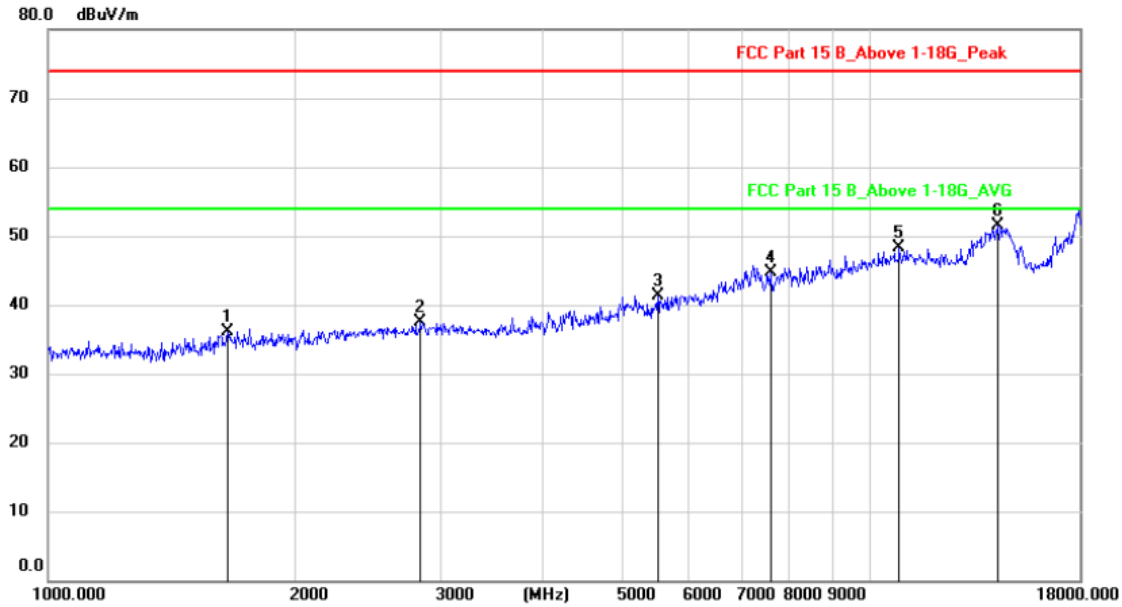
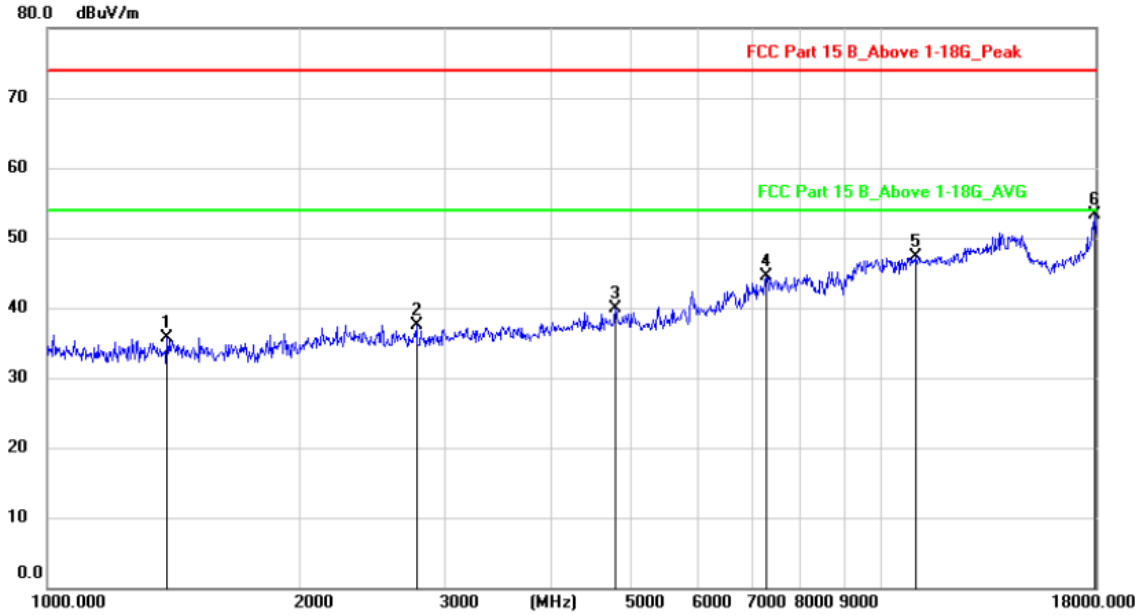
802.11a 5745MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1654.347	56.85	-20.73	36.12	74.00	-37.88	peak			
2		2845.768	55.38	-17.85	37.53	74.00	-36.47	peak			
3		5522.263	54.29	-12.99	41.30	74.00	-32.70	peak			
4		7578.989	52.81	-8.20	44.61	74.00	-29.39	peak			
5		10870.99	53.29	-4.98	48.31	74.00	-25.69	peak			
6	*	14359.92	53.64	-2.11	51.53	74.00	-22.47	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

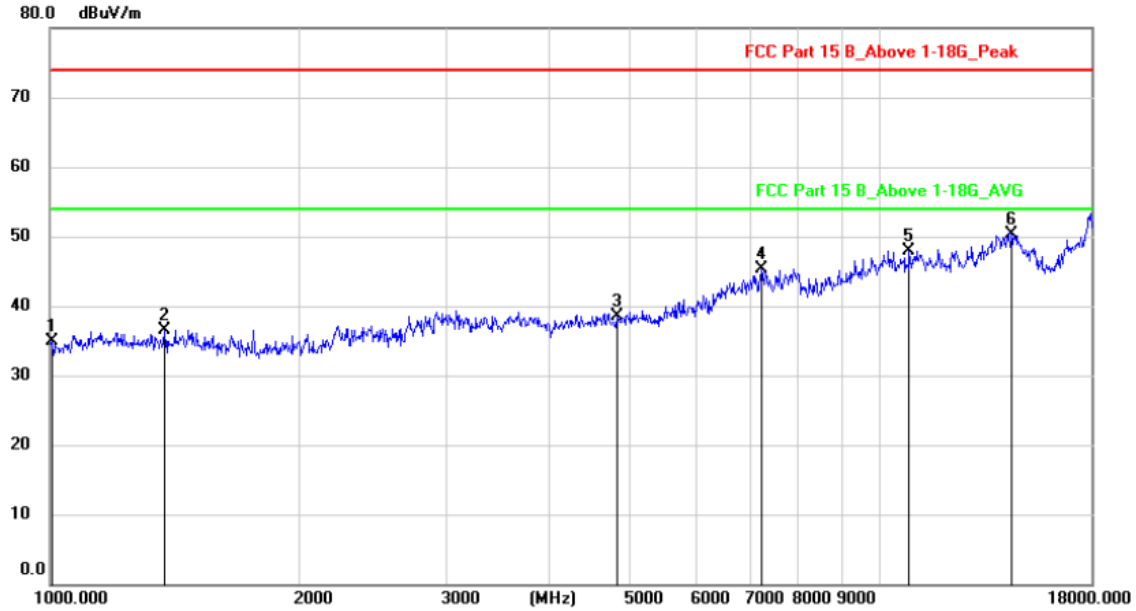
802.11a 5745MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1390.946	55.38	-19.66	35.72	74.00	-38.28	peak			
2		2770.825	55.47	-18.02	37.45	74.00	-36.55	peak			
3		4794.862	53.95	-13.99	39.96	74.00	-34.04	peak			
4		7279.828	52.61	-8.14	44.47	74.00	-29.53	peak			
5		10993.17	52.30	-4.90	47.40	74.00	-26.60	peak			
6	*	17991.33	50.33	3.05	53.38	74.00	-20.62	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

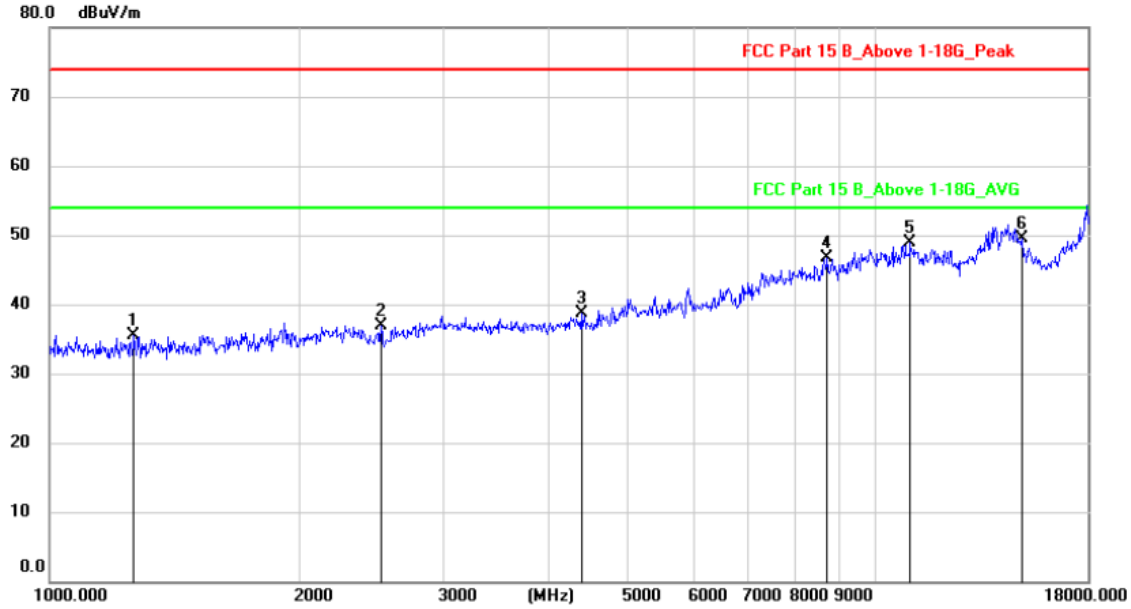
802.11a 5785MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1006.379	54.53	-19.65	34.88	74.00	-39.12	peak			
2		1375.354	56.20	-19.62	36.58	74.00	-37.42	peak			
3		4823.125	52.43	-13.92	38.51	74.00	-35.49	peak			
4		7220.455	53.40	-8.15	45.25	74.00	-28.75	peak			
5		10870.99	52.79	-4.98	47.81	74.00	-26.19	peak			
6	*	14415.36	52.47	-2.08	50.39	74.00	-23.61	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

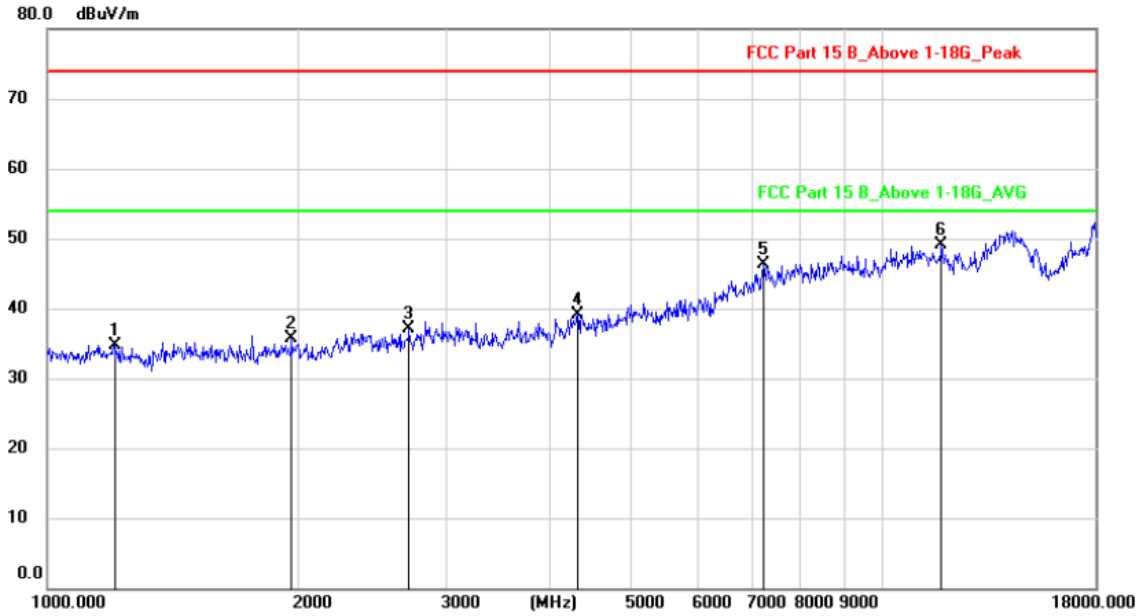
802.11a 5785MHz- Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1265.380	54.95	-19.53	35.42	74.00	-38.58	peak			
2		2515.840	55.61	-18.71	36.90	74.00	-37.10	peak			
3		4397.881	53.83	-15.04	38.79	74.00	-35.21	peak			
4		8726.232	54.62	-7.98	46.64	74.00	-27.36	peak			
5		10993.17	53.80	-4.90	48.90	74.00	-25.10	peak			
6	*	15025.12	53.30	-3.82	49.48	74.00	-24.52	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

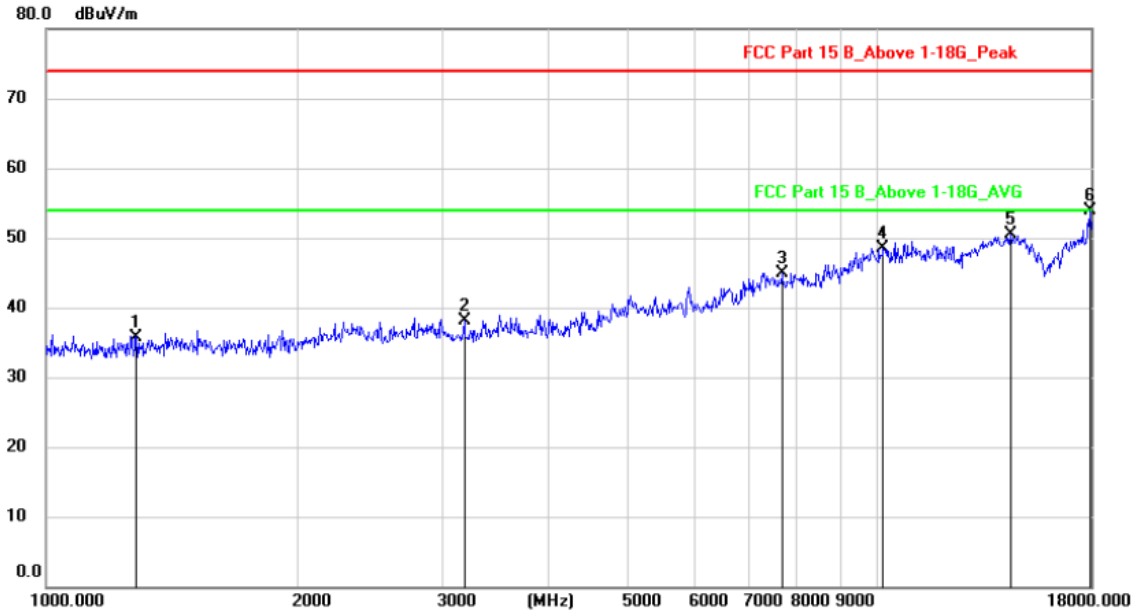
802.11a 5825MHz-Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1203.315	54.33	-19.64	34.69	74.00	-39.31	peak			
2		1965.922	56.10	-20.36	35.74	74.00	-38.26	peak			
3		2716.374	55.23	-18.15	37.08	74.00	-36.92	peak			
4		4316.859	54.35	-15.25	39.10	74.00	-34.90	peak			
5		7220.455	54.40	-8.15	46.25	74.00	-27.75	peak			
6	*	11790.77	54.23	-5.09	49.14	74.00	-24.86	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

802.11a 5825MHz-Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1284.914	55.28	-19.48	35.80	74.00	-38.20	peak			
2		3178.896	55.53	-17.48	38.05	74.00	-35.95	peak			
3		7658.263	53.21	-8.34	44.87	74.00	-29.13	peak			
4		10129.75	55.05	-6.52	48.53	74.00	-25.47	peak			
5		14427.87	52.61	-2.09	50.52	74.00	-23.48	peak			
6	*	17991.33	50.83	3.05	53.88	74.00	-20.12	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

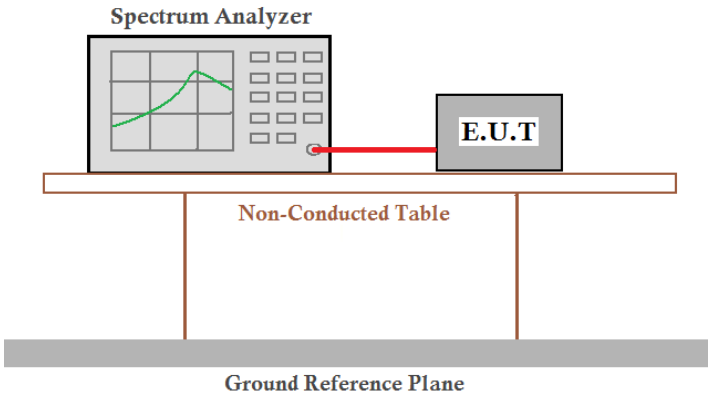
Note:

1. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

2. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

3. This Report only show the test plots of the worst mode(802.11a).

4.10 Conducted Spurious Emission

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.10-2020
Limit:	1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. 2. For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. 3. For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
Test setup:	
Test procedure:	The procedure for peak unwanted emissions measurements above 1000 MHz is as follows: a) Peak emission levels are measured by setting the instrument as follows: 1) RBW = 1 MHz. 2) VBW ≥ [3 × RBW]. 3) Detector = peak. 4) Sweep time = auto. 5) Trace mode = max hold. 6) Allow sweeps to continue until the trace stabilizes.
Test results:	Please refer to Appendix of 5GWIFI B1/B2/B3/B4 data.

5 Test setup photo

Please refer to the Appendix of Test photos

6 EUT Photo

Please refer to the Appendix of EUT photos

--------END OF REPORT-------