

TEST REPORT

Applicant Name: Premier Logitech, LLC
Address: 511 S. Royal Lane Coppell TX 75019 United States
Report Number: 2401X96326E-RF-00A
FCC ID: 2BKIJMQ20

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: Motorola MQ20 WIFI 6E TRI-BAND MESH ROUTER
Model No.: MQ20
Multiple Model(s) No.: N/A
Trade Mark: Premier Logitech
Date Received: 2024-09-23
Issue Date: 2025-03-31

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ekko Wu

Ekko Wu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401X96326E-RF-00A	Original Report	2025-03-31

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz
Device Type	Indoor access point
Mode	802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80
Maximum Conducted Average Output Power	5150-5250MHz: 28.25dBm; 5250-5350MHz: 23.27dBm 5470-5725MHz: 23.92dBm; 5725-5850MHz: 27.45dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification[#]	5150-5250MHz: ANT0: 4.62dBi, ANT1: 5.29dBi, ANT2: 3.26dBi, ANT3: 4.10dBi Directional Gain: 6.04dBi
	5250-5350MHz: ANT0: 5.67dBi, ANT1: 5.80dBi, ANT2: 4.62dBi, ANT3: 5.17dBi Directional Gain: 6.55dBi
	5470-5725MHz: ANT0: 3.92dBi, ANT1: 3.14dBi, ANT2: 3.23dBi, ANT3: 4.60dBi Directional Gain: 5.74dBi
	5725-5850MHz: ANT0: 2.90dBi, ANT1: 4.22dBi, ANT2: 3.09dBi, ANT3: 3.74dBi Directional Gain: 5.36dBi (provided by the applicant)
Voltage Range	DC 12V from adapter
Sample serial number	2S00-2 for Conducted and Radiated Emissions Test 2S00-6 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1 Manufacture: Chenzhou Frecom Electronics Co., Ltd. Model: F36L7-120300SPAU Input: AC 100-240V, 50/60Hz, 0.9A. Output: DC 12.0V, 3.0A 36.0W Adapter 2 Manufacture: FLYPOWER Model: PS36LA120K3000UD Input: AC 100-240V, 50/60Hz, 1.0A Max. Output: DC 12.0V, 3.0A 36.0W
Note: 1. The EUT charged by two adapters, the worst case Adapter 2 was selected to test for AC line conducted and radiated emission below 1GHz according to 2.4G Wi-Fi report test result. 2. The directional gain is the test value provided by the applicant.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB789033 D02 General U-NII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5150-5250MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a/n20/ac20/ax20 mode: channel 36, 40, 48 were tested;

For 802.11n40/ac40/ax40 mode: channel 38, 46 were tested;

For 802.11ac80/ax80 mode, channel 42 was tested.

For 5250-5350MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For 802.11a/n20/ac20/ax20 mode: channel 52, 56, 64 were tested;

For 802.11n40/ac40/ax40 mode: channel 54, 62 were tested;

For 802.11ac80/ax80 mode, channel 58 was tested.

For 5470-5725MHz Band, 21 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
102	5510	126	5630
104	5520	128	5640
106	5530	132	5660
108	5540	134	5670
110	5550	136	5680
112	5560	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720
122	5610	/	/

For 802.11a/n20/ac20/ax20 mode: channel 100, 116, 140, 144 were tested;

For 802.11n40/ac40/ax40 mode: channel 102, 110, 134, 142 were tested;

For 802.11ac80/ax80 mode, channel 106, 122, 138 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/n20/ac20/ax20 mode: channel 149, 157, 165 were tested;

For 802.11n40/ac40/ax40 mode: channel 151, 159 were tested;

For 802.11ac80/ax80 mode, channel 155 was tested.

EUT Exercise Software

Exercise Software [#]		Authentication tool.exe v2.0.5.0				
5150 – 5250MHz:						
Mode	Data rate	ANT	Power Level [#]			
			Low Channel	Middle Channel	High Channel	
802.11a	6Mbps	ANT0	31	31	31	
		ANT1	31	31	31	
		ANT2	31	31	31	
		ANT3	31	31	31	
802.11ac20	MCS0	ANT0/1/2/3	23	23	23	
802.11ac40	MCS0	ANT0/1/2/3	23	/	23	
802.11ac80	MCS0	ANT0/1/2/3	/	24	/	
802.11ax20	MCS0	ANT0/1/2/3	23	23	23	
802.11ax40	MCS0	ANT0/1/2/3	23	/	23	
802.11ax80	MCS0	ANT0/1/2/3	/	24	/	
5250 – 5350MHz:						
Mode	Data rate	ANT	TPC	Power Level [#]		
				Low Channel	Middle Channel	High Channel
802.11a	6Mbps	ANT0	P _H /P _L	23/17	23/17	23/17
		ANT1	P _H /P _L	23/17	23/17	23/17
		ANT2	P _H /P _L	23/17	23/17	23/17
		ANT3	P _H /P _L	23/17	23/17	23/17
802.11ac20	MCS0	ANT0/1/2/3	P _H /P _L	17/11	17/11	17/11
802.11ac40	MCS0	ANT0/1/2/3	P _H /P _L	19/13	/	19/13
802.11ac80	MCS0	ANT0/1/2/3	P _H /P _L	/	18/12	/
802.11ax20	MCS0	ANT0/1/2/3	P _H /P _L	16/10	16/10	16/10
802.11ax40	MCS0	ANT0/1/2/3	P _H /P _L	19/13	/	19/13
802.11ax80	MCS0	ANT0/1/2/3	P _H /P _L	/	18/12	/

5470 – 5725MHz:							
Mode	Data rate	ANT	TPC	Power Level [#]			
				Low Channel	Middle Channel	High Channel	Cross Channel
802.11a	6Mbps	ANT0	P _H /P _L	23/17	23/17	23/17	23/17
		ANT1	P _H /P _L	23/17	23/17	23/17	23/17
		ANT2	P _H /P _L	23/17	23/17	23/17	23/17
		ANT3	P _H /P _L	23/17	23/17	23/17	23/17
802.11ac20	MCS0	ANT0/1/2/3	P _H /P _L	17/11	17/11	17/11	17/11
802.11ac40	MCS0	ANT0/1/2/3	P _H /P _L	18/12	18/12	18/12	18/12
802.11ac80	MCS0	ANT0/1/2/3	P _H /P _L	18/12	/	18/12	18/12
802.11ax20	MCS0	ANT0/1/2/3	P _H /P _L	17/11	17/11	17/11	17/11
802.11ax40	MCS0	ANT0/1/2/3	P _H /P _L	18/12	18/12	18/12	18/12
802.11ax80	MCS0	ANT0/1/2/3	P _H /P _L	18/12	/	18/12	18/12
5725 – 5850MHz:							
Mode	Data rate	ANT	Power Level [#]				
			Low Channel	Middle Channel	High Channel		
802.11a	6Mbps	ANT0	30	30	30		
		ANT1	30	30	30		
		ANT2	30	30	30		
		ANT3	30	30	30		
802.11ac20	MCS0	ANT0/1/2/3	26	26	26		
802.11ac40	MCS0	ANT0/1/2/3	24	/	24		
802.11ac80	MCS0	ANT0/1/2/3	/	25	/		
802.11ax20	MCS0	ANT0/1/2/3	26	26	26		
802.11ax40	MCS0	ANT0/1/2/3	26	/	26		
802.11ax80	MCS0	ANT0/1/2/3	/	26	/		
Note:							
1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power and PSD across all data rates bandwidths, and modulations.							
2. For 802.11a mode, the device supports SISO only.							
3. For 802.11n/ac/ax mode, the device support SISO and MIMO, the MIMO mode support beamforming, the SISO/MIMO and beamforming/nonbeamforming modes have same parameter, which was declared by applicant. The MIMO/beamforming was the worst mode which was selected to test.							
4. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.							
5. For 802.11ax modes, the device not support partial RU mode.							

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

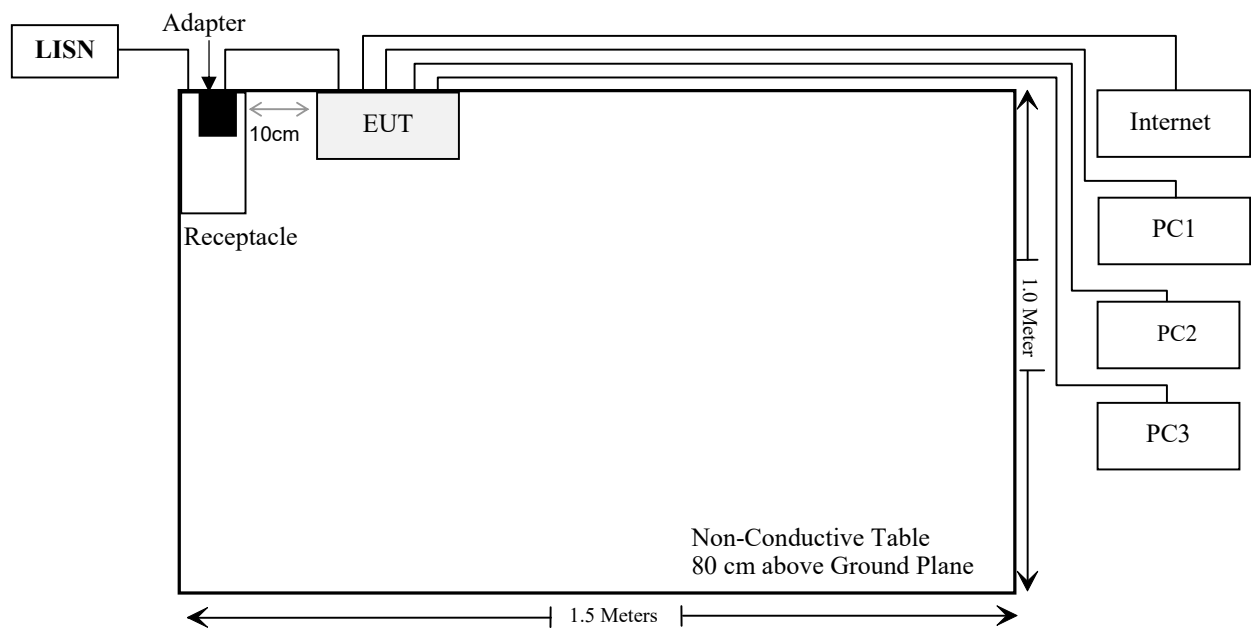
Manufacturer	Description	Model	Serial Number
DELL	PC1	Latitude E6520	DL0ZCS1
DELL	PC2	Latitude E5430	JG3NLV1
DELL	PC3	Latitude E5570	GNDLKC2

External I/O Cable

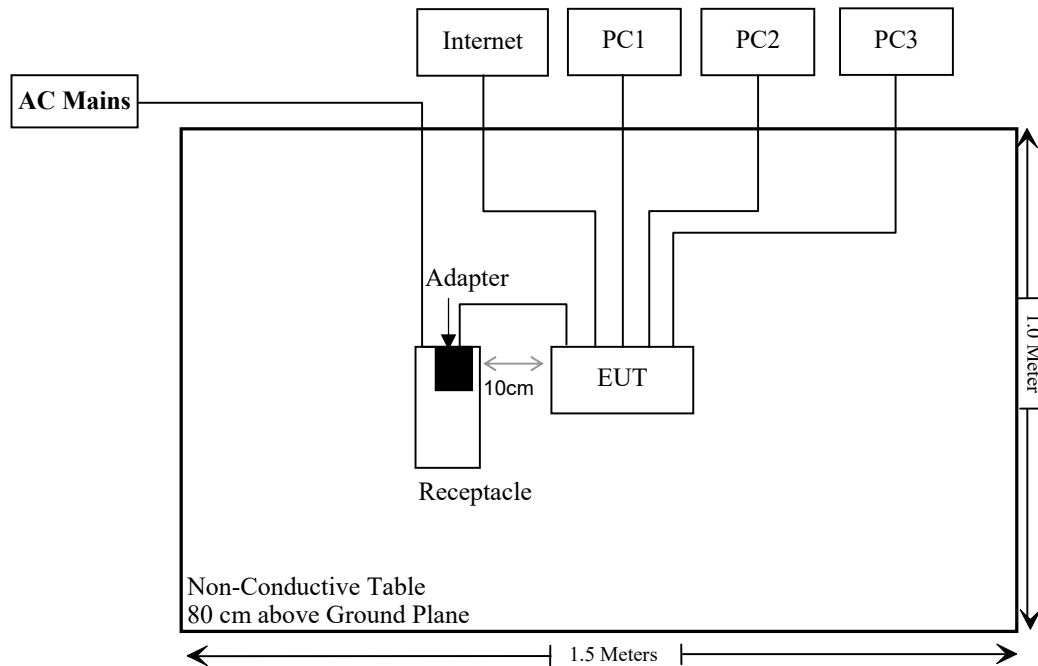
Cable Description	Length (m)	From Port	To
Unshielded Un-detachable AC cable	1.5	Receptacle	LISN/AC Mains
Unshielded Un-detachable DC cable	1.5	Adapter	EUT
Unshielded detachable RJ45 cable*3	5.0	EUT	PC
Unshielded detachable RJ45 cable	8.0	EUT	Internet

Block Diagram of Test Setup

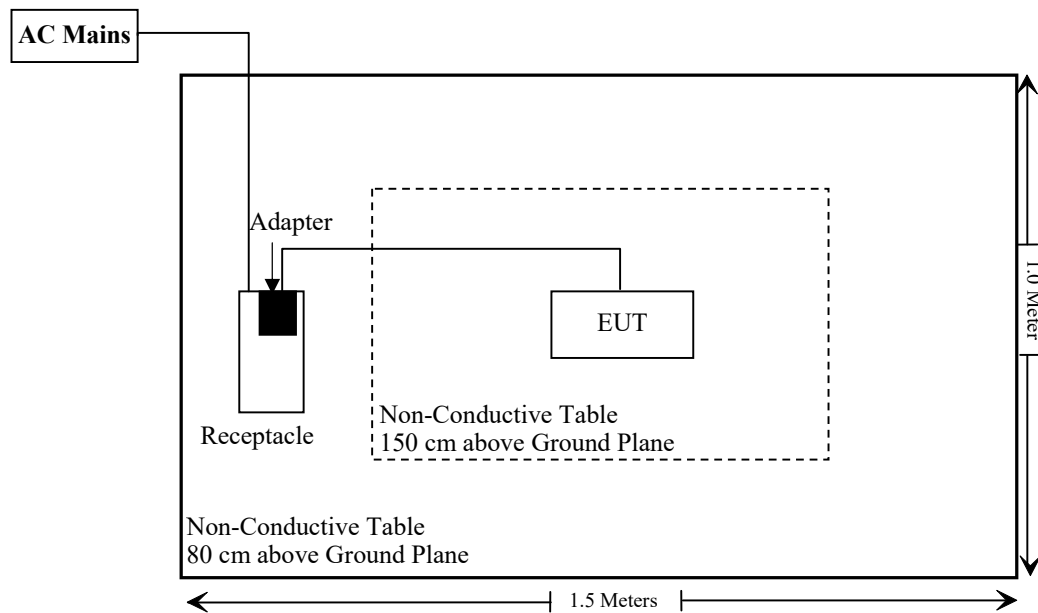
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Compliant
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*
C63.10 §11.6	Duty Cycle	/

Compliant*: Please refer to the DFS report 2401X96326E-RFC.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2024/09/20	2025/09/19
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

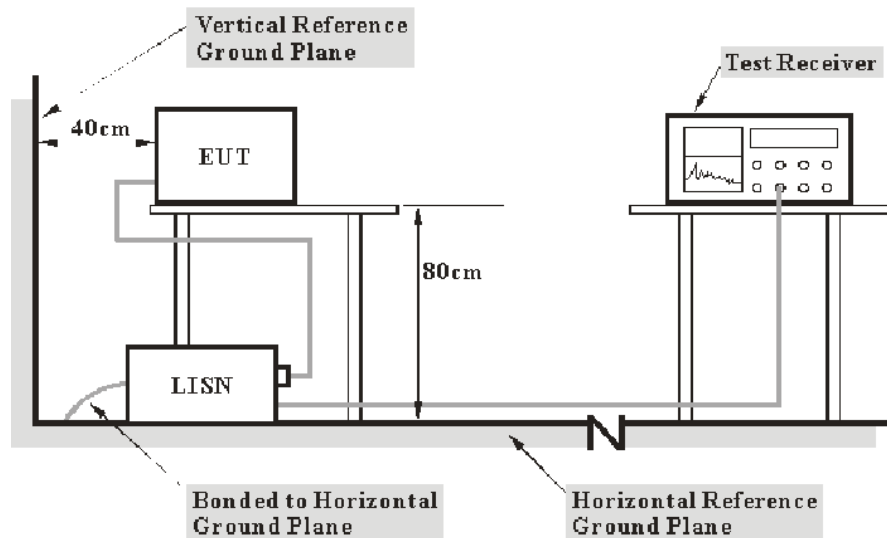
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

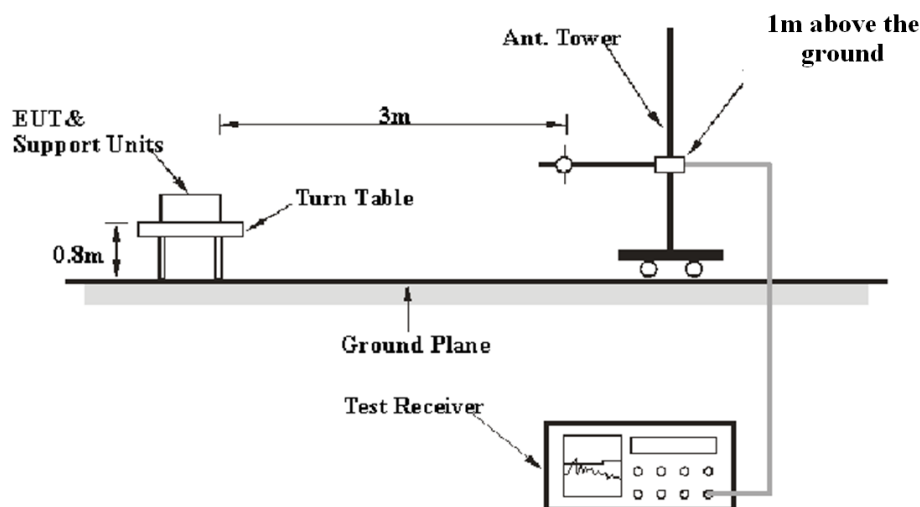
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

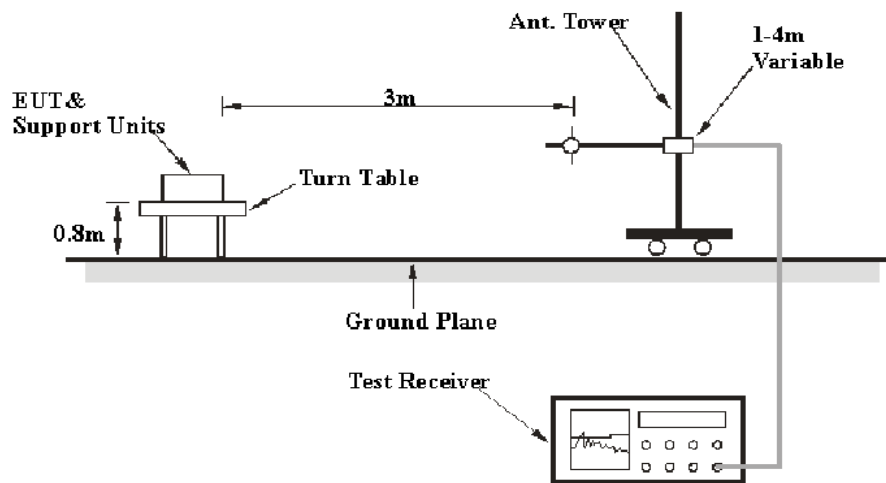
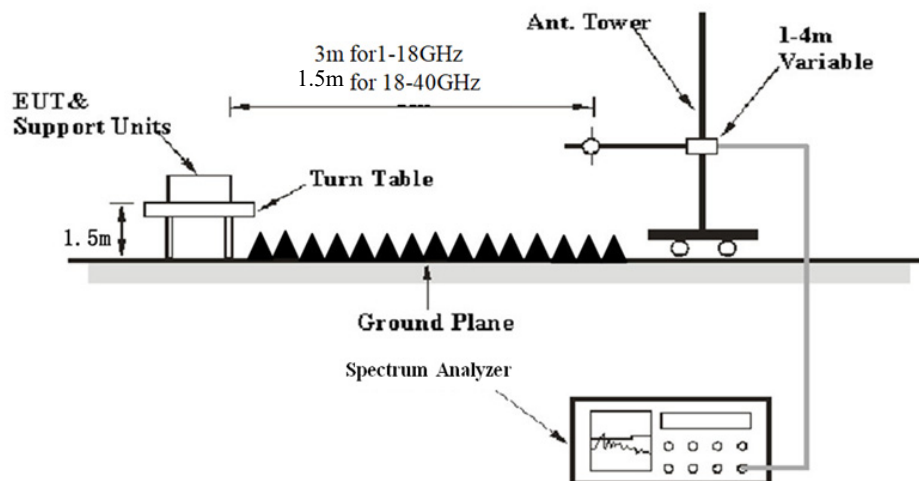
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:**Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

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

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	1 kHz
	<98%	1MHz	≥1/Ton

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dB μ V/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dB μ V/m
d_{Meas}	is the measurement distance, in m
$d_{\text{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 \cdot \log(1.5/3) = -6.0\text{dB}$, for 18-40GHz range, the limit of 1.5m distance was added by 6.0dB from limit of 3m to compared with the result measurement at 1.5m distance.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

26 dB & 6dB Emission Bandwidth

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)

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

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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

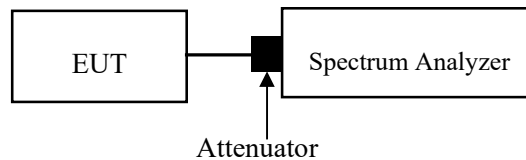
3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. 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% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Conducted Transmitter Output Power

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

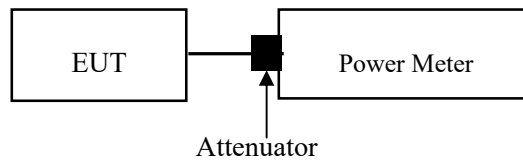
Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Power Spectral Density

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

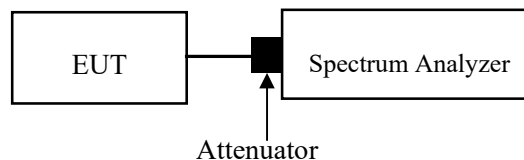
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

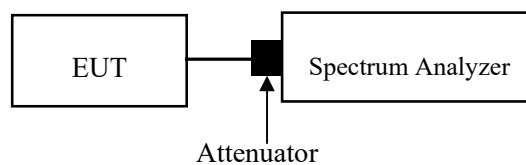
Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

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

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has four internal antennas arrangement, which were permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

ANT	Type	Antenna Gain [#]	Impedance	Frequency Range
ANT0	PCB	4.62dBi	50Ω	5150-5250MHz
ANT1		5.29dBi		
ANT2		3.26dBi		
ANT3		4.10dBi		
ANT0	PCB	5.67dBi	50Ω	5250-5350MHz
ANT1		5.80dBi		
ANT2		4.62dBi		
ANT3		5.17dBi		
ANT0	PCB	3.92dBi	50Ω	5470-5725MHz
ANT1		3.14dBi		
ANT2		3.23dBi		
ANT3		4.60dBi		
ANT0	PCB	2.90dBi	50Ω	5725-5850MHz
ANT1		4.22dBi		
ANT2		3.09dBi		
ANT3		3.74dBi		

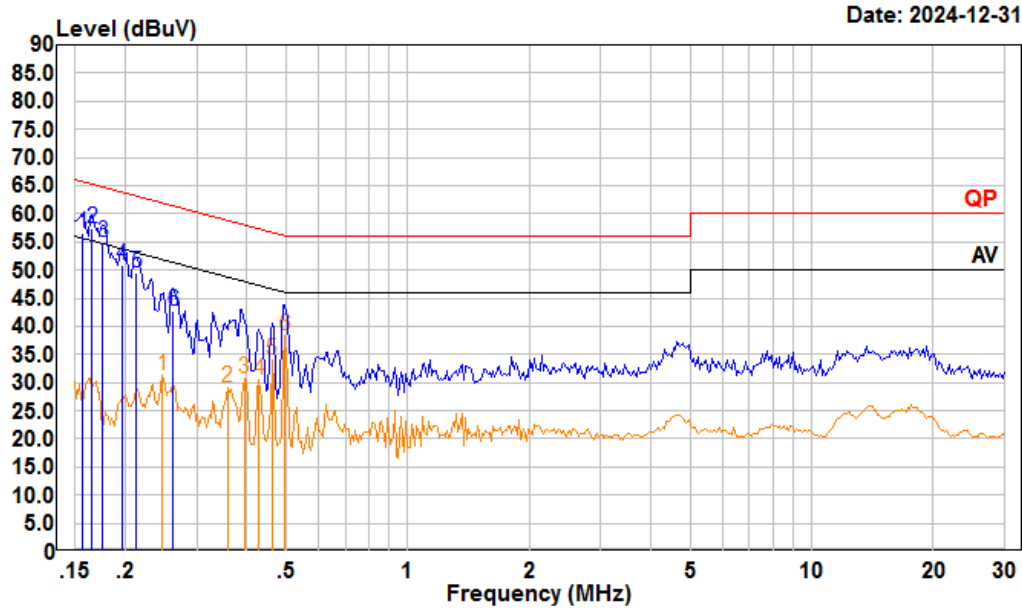
Result: Compliant

TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	26	Relative Humidity (%)	46
ATM Pressure (kPa)	101	Test engineer	Macy shi
Test date	2024/12/31		
EUT operation mode	Transmitting (Maximum output power mode, 802.11ax80 5210MHz)		

AC 120V 60 Hz, Line Adapter2



Trace: 1

Condition: Line

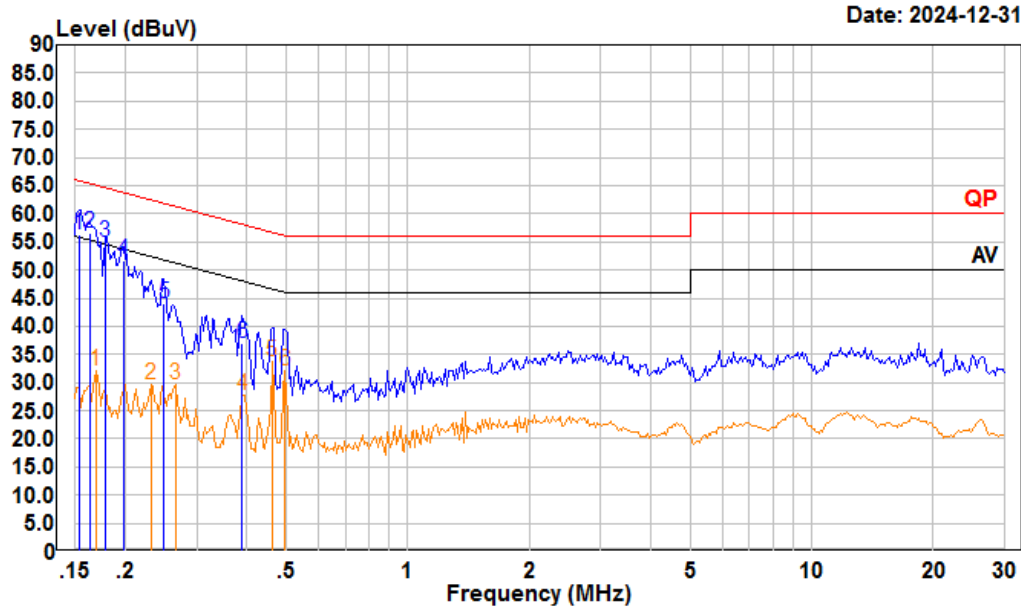
Project : 2401X96326E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:Auto SWT:Auto

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.156	35.60	56.61	10.89	10.12	65.65	-9.04	QP
2	0.165	36.49	57.47	10.87	10.11	65.21	-7.74	QP
3	0.176	34.10	55.04	10.84	10.10	64.68	-9.64	QP
4	0.195	30.00	50.90	10.81	10.09	63.80	-12.90	QP
5	0.213	28.70	49.57	10.78	10.09	63.10	-13.53	QP
6	0.263	22.00	42.80	10.71	10.09	61.34	-18.54	QP
	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.247	10.38	31.19	10.73	10.08	51.86	-20.67	Average
2	0.358	8.42	29.15	10.61	10.12	48.78	-19.63	Average
3	0.393	10.01	30.69	10.58	10.10	47.99	-17.30	Average
4	0.428	9.91	30.57	10.55	10.11	47.29	-16.72	Average
5	0.461	13.25	33.90	10.53	10.12	46.67	-12.77	Average
6	0.497	17.83	38.47	10.50	10.14	46.05	-7.58	Average

AC 120V 60 Hz, Neutral Adapter2



Condition: Neutral

Project : 2401X96326E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:Auto SWT:Auto

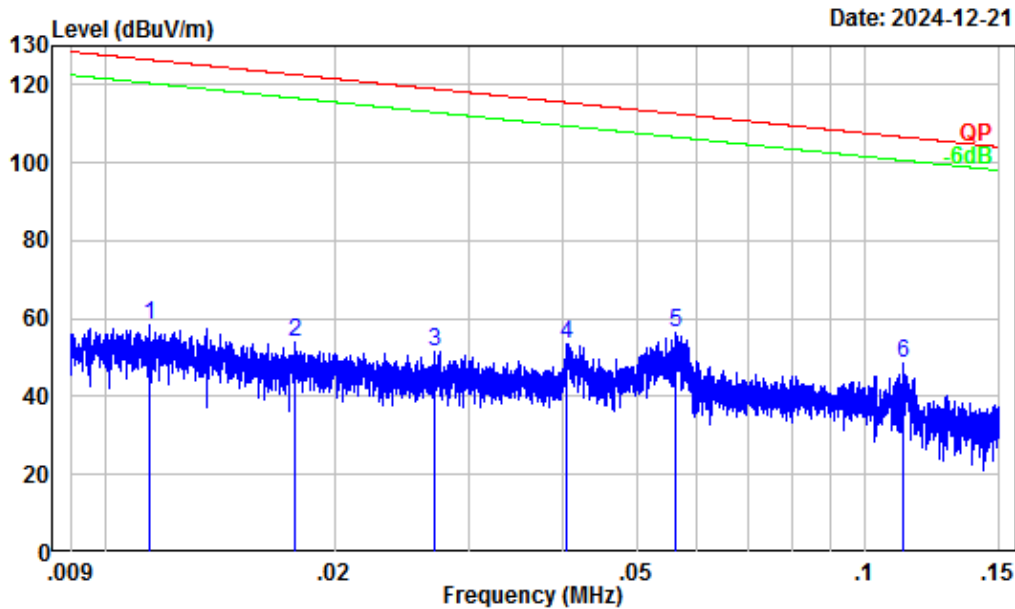
	Read Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.153	35.49	56.21	10.59	10.13	65.82	-9.61	QP
2	0.163	36.00	56.65	10.54	10.11	65.30	-8.65	QP
3	0.178	34.30	54.88	10.48	10.10	64.59	-9.71	QP
4	0.198	31.10	51.60	10.41	10.09	63.71	-12.11	QP
5	0.249	23.60	44.15	10.47	10.08	61.78	-17.63	QP
6	0.389	16.30	37.02	10.62	10.10	58.08	-21.06	QP
	Read Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.169	11.46	32.08	10.52	10.10	55.03	-22.95	Average
2	0.232	9.23	29.76	10.45	10.08	52.39	-22.63	Average
3	0.266	9.14	29.72	10.49	10.09	51.25	-21.53	Average
4	0.389	7.12	27.84	10.62	10.10	48.08	-20.24	Average
5	0.461	12.81	33.60	10.67	10.12	46.67	-13.07	Average
6	0.497	11.34	32.18	10.70	10.14	46.05	-13.87	Average

Undesirable Emission

Temperature (°C)	22.3~27	Relative Humidity (%)	35~50
ATM Pressure (kPa):	101~101.3	Test engineer:	Anson Su&Wing K Ji
Test date:	2024/12/21~2025/04/10		
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11ax80 5210MHz) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 30MHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.		

Below 1GHz:

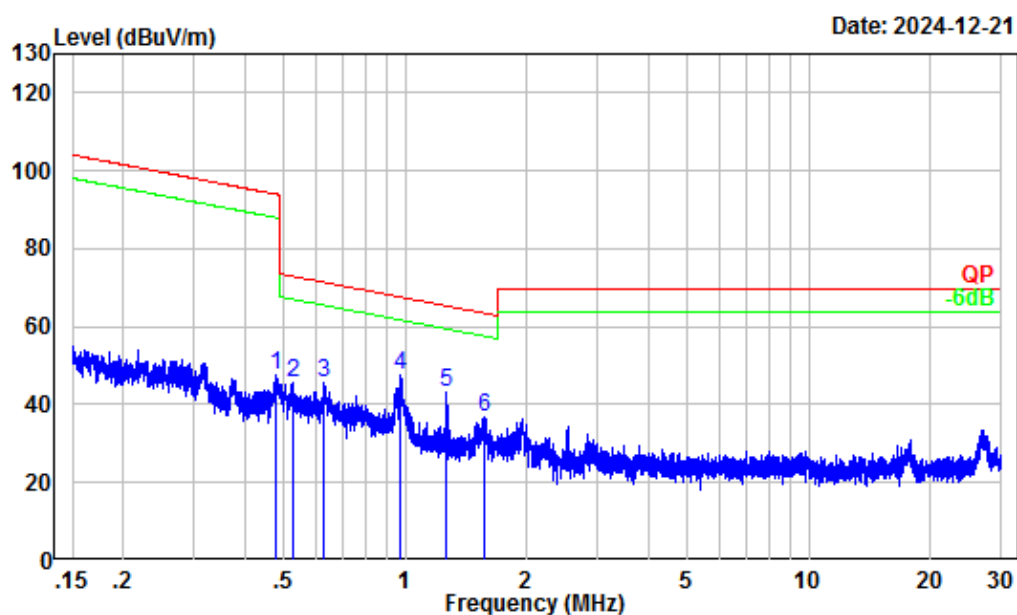
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number: 2401X96326E-RF
Test Mode : 5G WIFI Transmitting
Setting PK RBW: 0.3KHz VBW:1KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.03	26.20	58.23	126.45	-68.22	Peak
2	0.02	30.83	23.18	54.01	122.62	-68.61	Peak
3	0.03	29.04	22.36	51.40	118.93	-67.53	Peak
4	0.04	27.40	26.18	53.58	115.47	-61.89	Peak
5	0.06	25.77	30.70	56.47	112.60	-56.13	Peak
6	0.11	21.30	27.14	48.44	106.62	-58.18	Peak

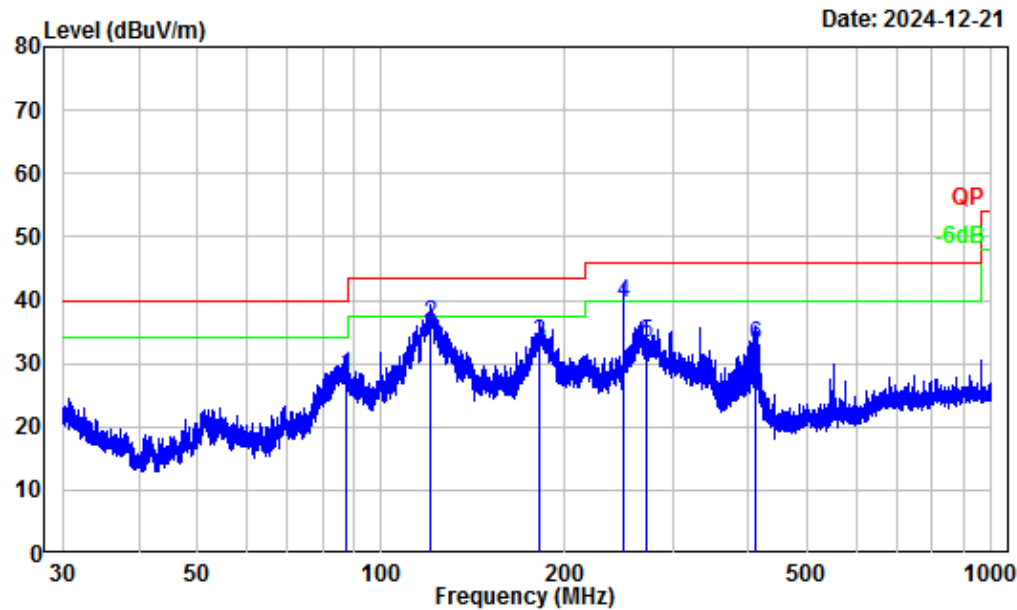
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number: 2401X96326E-RF
Test Mode : 5G WIFI Transmitting
Setting PK RBW: 10KHz VBW:30KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.48	6.78	40.94	47.72	93.98	-46.26	Peak
2	0.53	6.08	39.36	45.44	73.17	-27.73	Peak
3	0.63	4.80	40.72	45.52	71.58	-26.06	Peak
4	0.98	1.37	46.26	47.63	67.68	-20.05	Peak
5	1.27	0.46	42.77	43.23	65.38	-22.15	Peak
6	1.58	-0.42	37.02	36.60	63.42	-26.82	Peak

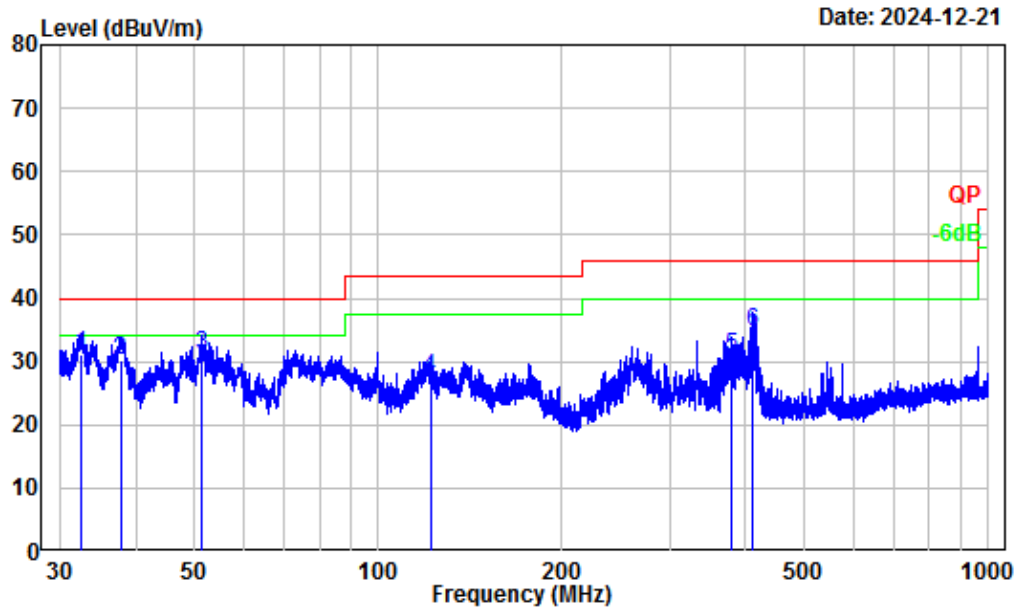
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number: 2401X96326E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	87.76	-18.07	46.19	28.12	40.00	-11.88 QP
2	120.17	-11.43	47.68	36.25	43.50	-7.25 QP
3	182.16	-13.85	47.00	33.15	43.50	-10.35 QP
4	249.97	-13.09	52.58	39.49	46.00	-6.51 QP
5	272.04	-11.65	45.00	33.35	46.00	-12.65 QP
6	411.28	-8.13	41.14	33.01	46.00	-12.99 QP

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number: 2401X96326E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120kHz
Tester : Anson Su

	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	-7.40	38.51	31.11	40.00	-8.89	QP
2	37.75	-10.80	41.10	30.30	40.00	-9.70	QP
3	51.44	-18.16	49.30	31.14	40.00	-8.86	QP
4	121.60	-11.29	38.64	27.35	43.50	-16.15	QP
5	378.92	-9.18	39.99	30.81	46.00	-15.19	QP
6	411.28	-8.13	42.97	34.84	46.00	-11.16	QP

Above 1GHz:**5150-5250 MHz**

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT0							
Low Channel							
5150	66.13	PK	H	-7.45	58.68	74	-15.32
5150	52.92	AV	H	-7.45	45.47	54	-8.53
5150	66.20	PK	V	-7.45	58.75	74	-15.25
5150	52.57	AV	V	-7.45	45.12	54	-8.88
10360	51.83	PK	H	2.53	54.36	68.20	-13.84
10360	52.69	PK	V	2.53	55.22	68.20	-12.98
Middle Channel							
10400	51.19	PK	H	2.55	53.74	68.20	-14.46
10400	51.16	PK	V	2.55	53.71	68.20	-14.49
High Channel							
5350	65.41	PK	H	-6.74	58.67	74	-15.33
5350	51.93	AV	H	-6.74	45.19	54	-8.81
5350	65.36	PK	V	-6.74	58.62	74	-15.38
5350	52.35	AV	V	-6.74	45.61	54	-8.39
10480	51.60	PK	H	2.25	53.85	68.20	-14.35
10480	51.80	PK	V	2.25	54.05	68.20	-14.15
ANT1							
Low Channel							
5150	66.10	PK	H	-7.45	58.65	74	-15.35
5150	53.20	AV	H	-7.45	45.75	54	-8.25
5150	66.09	PK	V	-7.45	58.64	74	-15.36
5150	52.84	AV	V	-7.45	45.39	54	-8.61
10360	52.29	PK	H	2.53	54.82	68.20	-13.38
10360	53.30	PK	V	2.53	55.83	68.20	-12.37
Middle Channel							
10400	50.82	PK	H	2.55	53.37	68.20	-14.83
10400	51.63	PK	V	2.55	54.18	68.20	-14.02
High Channel							
5350	65.48	PK	H	-6.74	58.74	74	-15.26
5350	52.05	AV	H	-6.74	45.31	54	-8.69
5350	65.17	PK	V	-6.74	58.43	74	-15.57
5350	52.12	AV	V	-6.74	45.38	54	-8.62
10480	52.24	PK	H	2.25	54.49	68.20	-13.71
10480	51.88	PK	V	2.25	54.13	68.20	-14.07

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
ANT2							
Low Channel							
5150	65.70	PK	H	-7.45	58.25	74	-15.75
5150	52.77	AV	H	-7.45	45.32	54	-8.68
5150	65.90	PK	V	-7.45	58.45	74	-15.55
5150	52.82	AV	V	-7.45	45.37	54	-8.63
10360	51.98	PK	H	2.53	54.51	68.20	-13.69
10360	52.28	PK	V	2.53	54.81	68.20	-13.39
Middle Channel							
10400	52.34	PK	H	2.55	54.89	68.20	-13.31
10400	52.68	PK	V	2.55	55.23	68.20	-12.97
High Channel							
5350	65.19	PK	H	-6.74	58.45	74	-15.55
5350	52.42	AV	H	-6.74	45.68	54	-8.32
5350	64.88	PK	V	-6.74	58.14	74	-15.86
5350	52.38	AV	V	-6.74	45.64	54	-8.36
10480	51.47	PK	H	2.25	53.72	68.20	-14.48
10480	51.95	PK	V	2.25	54.20	68.20	-14.00
ANT3							
Low Channel							
5150	65.59	PK	H	-7.45	58.14	74	-15.86
5150	53.09	AV	H	-7.45	45.64	54	-8.36
5150	65.90	PK	V	-7.45	58.45	74	-15.55
5150	52.82	AV	V	-7.45	45.37	54	-8.63
10360	50.90	PK	H	2.53	53.43	68.20	-14.77
10360	52.88	PK	V	2.53	55.41	68.20	-12.79
Middle Channel							
10400	51.48	PK	H	2.55	54.03	68.20	-14.17
10400	52.03	PK	V	2.55	54.58	68.20	-13.62
High Channel							
5350	65.12	PK	H	-6.74	58.38	74	-15.62
5350	52.35	AV	H	-6.74	45.61	54	-8.39
5350	65.08	PK	V	-6.74	58.34	74	-15.66
5350	52.17	AV	V	-6.74	45.43	54	-8.57
10480	52.03	PK	H	2.25	54.28	68.2	-13.92
10480	56.40	PK	V	2.25	58.65	68.2	-9.55

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac20							
Low Channel							
5150	65.80	PK	H	-7.45	58.35	74	-15.65
5150	52.80	AV	H	-7.45	45.35	54	-8.65
5150	65.87	PK	V	-7.45	58.42	74	-15.58
5150	52.80	AV	V	-7.45	45.35	54	-8.65
10360	50.55	PK	H	2.53	53.08	68.20	-15.12
10360	51.17	PK	V	2.53	53.70	68.20	-14.50
Middle Channel							
10400	50.57	PK	H	2.55	53.12	68.20	-15.08
10400	50.78	PK	V	2.55	53.33	68.20	-14.87
High Channel							
5350	65.48	PK	H	-6.74	58.74	74	-15.26
5350	52.09	AV	H	-6.74	45.35	54	-8.65
5350	65.21	PK	V	-6.74	58.47	74	-15.53
5350	52.05	AV	V	-6.74	45.31	54	-8.69
10480	51.00	PK	H	2.25	53.25	68.20	-14.95
10480	51.84	PK	V	2.25	54.09	68.20	-14.11
802.11ac40							
Low Channel							
5150	65.70	PK	H	-7.45	58.25	74	-15.75
5150	52.69	AV	H	-7.45	45.24	54	-8.76
5150	65.60	PK	V	-7.45	58.15	74	-15.85
5150	52.80	AV	V	-7.45	45.35	54	-8.65
10380	50.26	PK	H	2.54	52.80	68.2	-15.40
10380	51.59	PK	V	2.54	54.13	68.20	-14.07
High Channel							
5350	65.19	PK	H	-6.74	58.45	74	-15.55
5350	52.26	AV	H	-6.74	45.52	54	-8.48
5350	64.88	PK	V	-6.74	58.14	74	-15.86
5350	52.10	AV	V	-6.74	45.36	54	-8.64
10460	51.96	PK	H	2.32	54.28	68.20	-13.92
10460	53.25	PK	V	2.32	55.57	68.20	-12.63

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5137.76	78.32	PK	H	-7.46	70.86	74	-3.14
5137.76	59.33	AV	H	-7.46	51.87	54	-2.13
5124.44	79.73	PK	V	-7.47	72.26	74	-1.74
5124.44	60.14	AV	V	-7.47	52.67	54	-1.33
5456.64	66.02	PK	H	-6.31	59.71	74	-14.29
5456.64	53.60	AV	H	-6.31	47.29	54	-6.71
5448.12	65.24	PK	V	-6.33	58.91	74	-15.09
5448.12	52.41	AV	V	-6.33	46.08	54	-7.92
10420	52.36	PK	H	2.48	54.84	68.20	-13.36
10420	50.93	PK	V	2.48	53.41	68.20	-14.79
802.11ax20							
Low Channel							
5150	65.69	PK	H	-7.45	58.24	74	-15.76
5150	52.72	AV	H	-7.45	45.27	54	-8.73
5150	65.81	PK	V	-7.45	58.36	74	-15.64
5150	52.90	AV	V	-7.45	45.45	54	-8.55
10360	49.94	PK	H	2.53	52.47	68.20	-15.73
10360	52.82	PK	V	2.53	55.35	68.20	-12.85
Middle Channel							
10400	51.93	PK	H	2.55	54.48	68.20	-13.72
10400	50.99	PK	V	2.55	53.54	68.20	-14.66
High Channel							
5350	65.12	PK	H	-6.74	58.38	74	-15.62
5350	52.16	AV	H	-6.74	45.42	54	-8.58
5350	65.10	PK	V	-6.74	58.36	74	-15.64
5350	52.20	AV	V	-6.74	45.46	54	-8.54
10480	50.07	PK	H	2.25	52.32	68.20	-15.88
10480	50.99	PK	V	2.25	53.24	68.20	-14.96

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5150	66.19	PK	H	-7.45	58.74	74	-15.26
5150	52.81	AV	H	-7.45	45.36	54	-8.64
5150	65.60	PK	V	-7.45	58.15	74	-15.85
5150	52.83	AV	V	-7.45	45.38	54	-8.62
10380	50.98	PK	H	2.54	53.52	68.20	-14.68
10380	50.02	PK	V	2.54	52.56	68.20	-15.64
High Channel							
5350	65.12	PK	H	-6.74	58.38	74	-15.62
5350	52.21	AV	H	-6.74	45.47	54	-8.53
5350	65.42	PK	V	-6.74	58.68	74	-15.32
5350	51.91	AV	V	-6.74	45.17	54	-8.83
10460	51.47	PK	H	2.32	53.79	68.20	-14.41
10460	50.34	PK	V	2.32	52.66	68.20	-15.54
802.11ax80							
Middle Channel							
5150	65.62	PK	H	-7.45	58.17	74	-15.83
5150	52.81	AV	H	-7.45	45.36	54	-8.64
5150	66.19	PK	V	-7.45	58.74	74	-15.26
5150	52.81	AV	V	-7.45	45.36	54	-8.64
5350	65.21	PK	H	-6.74	58.47	74	-15.53
5350	52.42	AV	H	-6.74	45.68	54	-8.32
5350	65.10	PK	V	-6.74	58.36	74	-15.64
5350	52.38	AV	V	-6.74	45.64	54	-8.36
10420	52.02	PK	H	2.48	54.50	68.20	-13.70
10420	52.64	PK	V	2.48	55.12	68.20	-13.08

5250-5350MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT0							
Low Channel							
5150	65.59	PK	H	-7.45	58.14	74	-15.86
5150	52.76	AV	H	-7.45	45.31	54	-8.69
5150	65.70	PK	V	-7.45	58.25	74	-15.75
5150	52.79	AV	V	-7.45	45.34	54	-8.66
10520	52.34	PK	H	2.18	54.52	68.20	-13.68
10520	52.28	PK	V	2.18	54.46	68.20	-13.74
Middle Channel							
10560	51.51	PK	H	2.18	53.69	68.20	-14.51
10560	51.93	PK	V	2.18	54.11	68.20	-14.09
High Channel							
5350	64.96	PK	H	-6.74	58.22	74	-15.78
5350	51.98	AV	H	-6.74	45.24	54	-8.76
5350	65.38	PK	V	-6.74	58.64	74	-15.36
5350	52.10	AV	V	-6.74	45.36	54	-8.64
10640	51.07	PK	H	2.59	53.66	74.00	-20.34
10640	51.35	PK	V	2.59	53.94	74.00	-20.06
ANT1							
Low Channel							
5150	65.87	PK	H	-7.45	58.42	74	-15.58
5150	52.77	AV	H	-7.45	45.32	54	-8.68
5150	65.62	PK	V	-7.45	58.17	74	-15.83
5150	53.00	AV	V	-7.45	45.55	54	-8.45
10520	51.72	PK	H	2.18	53.90	68.20	-14.30
10520	49.71	PK	V	2.18	51.89	68.2	-16.31
Middle Channel							
10560	52.16	PK	H	2.18	54.34	68.20	-13.86
10560	50.89	PK	V	2.18	53.07	68.20	-15.13
High Channel							
5350	65.49	PK	H	-6.74	58.75	74	-15.25
5350	52.36	AV	H	-6.74	45.62	54	-8.38
5350	65.09	PK	V	-6.74	58.35	74	-15.65
5350	52.11	AV	V	-6.74	45.37	54	-8.63
10640	49.62	PK	H	2.59	52.21	74	-21.79
10640	50.53	PK	V	2.59	53.12	74.00	-20.88

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
ANT2							
Low Channel							
5150	65.62	PK	H	-7.45	58.17	74	-15.83
5150	52.81	AV	H	-7.45	45.36	54	-8.64
5150	66.20	PK	V	-7.45	58.75	74	-15.25
5150	53.07	AV	V	-7.45	45.62	54	-8.38
10520	51.99	PK	H	2.18	54.17	68.20	-14.03
10520	53.24	PK	V	2.18	55.42	68.20	-12.78
Middle Channel							
10560	52.22	PK	H	2.18	54.40	68.20	-13.80
10560	51.22	PK	V	2.18	53.40	68.20	-14.80
High Channel							
5350	65.08	PK	H	-6.74	58.34	74	-15.66
5350	52.28	AV	H	-6.74	45.54	54	-8.46
5350	65.12	PK	V	-6.74	58.38	74	-15.62
5350	52.35	AV	V	-6.74	45.61	54	-8.39
10640	51.38	PK	H	2.59	53.97	74.00	-20.03
10640	51.39	PK	V	2.59	53.98	74.00	-20.02
ANT3							
Low Channel							
5150	65.70	PK	H	-7.45	58.25	74	-15.75
5150	52.81	AV	H	-7.45	45.36	54	-8.64
5150	65.59	PK	V	-7.45	58.14	74	-15.86
5150	52.77	AV	V	-7.45	45.32	54	-8.68
10520	51.55	PK	H	2.18	53.73	68.20	-14.47
10520	51.16	PK	V	2.18	53.34	68.20	-14.86
Middle Channel							
10560	50.71	PK	H	2.18	52.89	68.20	-15.31
10560	49.95	PK	V	2.18	52.13	68.20	-16.07
High Channel							
5350	65.31	PK	H	-6.74	58.57	74	-15.43
5350	52.30	AV	H	-6.74	45.56	54	-8.44
5350	65.05	PK	V	-6.74	58.31	74	-15.69
5350	51.98	AV	V	-6.74	45.24	54	-8.76
10640	51.34	PK	H	2.59	53.93	74.00	-20.07
10640	50.86	PK	V	2.59	53.45	74.00	-20.55

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5150	65.81	PK	H	-7.45	58.36	74	-15.64
5150	52.87	AV	H	-7.45	45.42	54	-8.58
5150	66.09	PK	V	-7.45	58.64	74	-15.36
5150	52.82	AV	V	-7.45	45.37	54	-8.63
10520	52.14	PK	H	2.18	54.32	68.20	-13.88
10520	50.35	PK	V	2.18	52.53	68.20	-15.67
Middle Channel							
10560	51.09	PK	H	2.18	53.27	68.20	-14.93
10560	50.50	PK	V	2.18	52.68	68.20	-15.52
High Channel							
5350	65.48	PK	H	-6.74	58.74	74	-15.26
5350	52.38	AV	H	-6.74	45.64	54	-8.36
5350	65.09	PK	V	-6.74	58.35	74	-15.65
5350	52.38	AV	V	-6.74	45.64	54	-8.36
10640	50.54	PK	H	2.59	53.13	74.00	-20.87
10640	51.23	PK	V	2.59	53.82	74.00	-20.18
802.11ac40							
Low Channel							
5150	65.76	PK	H	-7.45	58.31	74	-15.69
5150	52.82	AV	H	-7.45	45.37	54	-8.63
5150	65.87	PK	V	-7.45	58.42	74	-15.58
5150	52.77	AV	V	-7.45	45.32	54	-8.68
10540	51.49	PK	H	2.18	53.67	68.20	-14.53
10540	50.86	PK	V	2.18	53.04	68.20	-15.16
High Channel							
5350	65.50	PK	H	-6.74	58.76	74	-15.24
5350	52.05	AV	H	-6.74	45.31	54	-8.69
5350	65.38	PK	V	-6.74	58.64	74	-15.36
5350	52.08	AV	V	-6.74	45.34	54	-8.66
10620	50.36	PK	H	2.37	52.73	74.00	-21.27
10620	51.50	PK	V	2.37	53.87	74.00	-20.13

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5150	65.92	PK	H	-7.45	58.47	74	-15.53
5150	52.78	AV	H	-7.45	45.33	54	-8.67
5150	66.16	PK	V	-7.45	58.71	74	-15.29
5150	53.10	AV	V	-7.45	45.65	54	-8.35
5357.84	75.19	PK	H	-6.71	68.48	74	-5.52
5357.84	54.59	AV	H	-6.71	47.88	54	-6.12
5357.65	75.28	PK	V	-6.72	68.56	74	-5.44
5357.65	55.95	AV	V	-6.72	49.23	54	-4.77
10580	52.11	PK	H	2.18	54.29	68.20	-13.91
10580	53.18	PK	V	2.18	55.36	68.20	-12.84
802.11ax20							
Low Channel							
5150	65.87	PK	H	-7.45	58.42	74	-15.58
5150	52.83	AV	H	-7.45	45.38	54	-8.62
5150	65.83	PK	V	-7.45	58.38	74	-15.62
5150	53.09	AV	V	-7.45	45.64	54	-8.36
10520	51.48	PK	H	2.18	53.66	68.20	-14.54
10520	52.01	PK	V	2.18	54.19	68.20	-14.01
Middle Channel							
10560	51.99	PK	H	2.18	54.17	68.20	-14.03
10560	51.26	PK	V	2.18	53.44	68.20	-14.76
High Channel							
5350	65.08	PK	H	-6.74	58.34	74	-15.66
5350	52.49	AV	H	-6.74	45.75	54	-8.25
5350	65.38	PK	V	-6.74	58.64	74	-15.36
5350	52.08	AV	V	-6.74	45.34	54	-8.66
10640	50.81	PK	H	2.59	53.40	74.00	-20.60
10640	51.25	PK	V	2.59	53.84	74.00	-20.16

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax40							
Low Channel							
5150	65.83	PK	H	-7.45	58.38	74	-15.62
5150	52.86	AV	H	-7.45	45.41	54	-8.59
5150	66.12	PK	V	-7.45	58.67	74	-15.33
5150	52.80	AV	V	-7.45	45.35	54	-8.65
10540	51.36	PK	H	2.18	53.54	68.20	-14.66
10540	51.14	PK	V	2.18	53.32	68.20	-14.88
High Channel							
5350	65.26	PK	H	-6.74	58.52	74	-15.48
5350	52.41	AV	H	-6.74	45.67	54	-8.33
5350	65.15	PK	V	-6.74	58.41	74	-15.59
5350	52.34	AV	V	-6.74	45.60	54	-8.40
10620	51.61	PK	H	2.37	53.98	74	-20.02
10620	49.92	PK	V	2.37	52.29	74	-21.71
802.11ax80							
Middle Channel							
5150	65.87	PK	H	-7.45	58.42	74	-15.58
5150	52.77	AV	H	-7.45	45.32	54	-8.68
5150	66.09	PK	V	-7.45	58.64	74	-15.36
5150	52.59	AV	V	-7.45	45.14	54	-8.86
5350	65.48	PK	H	-6.74	58.74	74	-15.26
5350	52.08	AV	H	-6.74	45.34	54	-8.66
5350	65.01	PK	V	-6.74	58.27	74	-15.73
5350	52.38	AV	V	-6.74	45.64	54	-8.36
10580	51.51	PK	H	2.18	53.69	68.20	-14.51
10580	50.69	PK	V	2.18	52.87	68.20	-15.33

5470-5725MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT0							
Low Channel							
5460	67.52	PK	H	-6.29	61.23	74	-12.77
5460	53.60	AV	H	-6.29	47.31	54	-6.69
5460	67.64	PK	V	-6.29	61.35	74	-12.65
5460	53.41	AV	V	-6.29	47.12	54	-6.88
5470	66.88	PK	H	-6.26	60.62	68.2	-7.58
5470	67.08	PK	V	-6.26	60.82	68.2	-7.38
11000	50.92	PK	H	4.29	55.21	74.00	-18.79
11000	39.05	AV	H	4.29	43.34	54.00	-10.66
11000	51.07	PK	V	4.29	55.36	74.00	-18.64
11000	39.16	AV	V	4.29	43.45	54.00	-10.55
Middle Channel							
11160	50.74	PK	H	3.5	54.24	74.00	-19.76
11160	38.88	AV	H	3.5	42.38	54.00	-11.62
11160	50.64	PK	V	3.5	54.14	74.00	-19.86
11160	39.15	AV	V	3.5	42.65	54.00	-11.35
High Channel							
5725	66.54	PK	H	-5.49	61.05	68.2	-7.15
5725	66.81	PK	V	-5.49	61.32	68.2	-6.88
11400	51.43	PK	H	3.32	54.75	74.00	-19.25
11400	39.02	AV	H	3.32	42.34	54.00	-11.66
11400	51.43	PK	V	3.32	54.75	74.00	-19.25
11400	39.03	AV	V	3.32	42.35	54.00	-11.65
Cross Channel							
11440	51.19	PK	H	3.42	54.61	74.00	-19.39
11440	39.93	AV	H	3.42	43.35	54.00	-10.65
11440	52.05	PK	V	3.42	55.47	74.00	-18.53
11440	39.82	AV	V	3.42	43.24	54.00	-10.76

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT1							
Low Channel							
5460	67.50	PK	H	-6.29	61.21	74	-12.79
5460	53.61	AV	H	-6.29	47.32	54	-6.68
5460	67.47	PK	V	-6.29	61.18	74	-12.82
5460	53.57	AV	V	-6.29	47.28	54	-6.72
5470	66.71	PK	H	-6.26	60.45	68.2	-7.75
5470	66.61	PK	V	-6.26	60.35	68.2	-7.85
11000	51.18	PK	H	4.29	55.47	74.00	-18.53
11000	39.39	AV	H	4.29	43.68	54.00	-10.32
11000	51.09	PK	V	4.29	55.38	74.00	-18.62
11000	39.43	AV	V	4.29	43.72	54.00	-10.28
Middle Channel							
11160	51.12	PK	H	3.5	54.62	74.00	-19.38
11160	38.95	AV	H	3.5	42.45	54.00	-11.55
11160	50.77	PK	V	3.5	54.27	74.00	-19.73
11160	38.83	AV	V	3.5	42.33	54.00	-11.67
High Channel							
5725	65.96	PK	H	-5.49	60.47	68.2	-7.73
5725	66.13	PK	V	-5.49	60.64	68.2	-7.56
11400	51.24	PK	H	3.32	54.56	74.00	-19.44
11400	38.92	AV	H	3.32	42.24	54.00	-11.76
11400	51.24	PK	V	3.32	54.56	74.00	-19.44
11400	39.02	AV	V	3.32	42.34	54.00	-11.66
Cross Channel							
11440	51.82	PK	H	3.42	55.24	74.00	-18.76
11440	39.23	AV	H	3.42	42.65	54.00	-11.35
11440	51.26	PK	V	3.42	54.68	74.00	-19.32
11440	39.22	AV	V	3.42	42.64	54.00	-11.36

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a							
ANT2							
Low Channel							
5460	67.47	PK	H	-6.29	61.18	74	-12.82
5460	53.65	AV	H	-6.29	47.36	54	-6.64
5460	67.55	PK	V	-6.29	61.26	74	-12.74
5460	53.44	AV	V	-6.29	47.15	54	-6.85
5470	66.88	PK	H	-6.26	60.62	68.2	-7.58
5470	66.79	PK	V	-6.26	60.53	68.2	-7.67
11000	51.36	PK	H	4.29	55.65	74.00	-18.35
11000	39.18	AV	H	4.29	43.47	54.00	-10.53
11000	51.03	PK	V	4.29	55.32	74.00	-18.68
11000	39.25	AV	V	4.29	43.54	54.00	-10.46
Middle Channel							
11160	50.97	PK	H	3.5	54.47	74.00	-19.53
11160	38.85	AV	H	3.5	42.35	54.00	-11.65
11160	51.18	PK	V	3.5	54.68	74.00	-19.32
11160	38.92	AV	V	3.5	42.42	54.00	-11.58
High Channel							
5725	65.94	PK	H	-5.49	60.45	68.2	-7.75
5725	66.22	PK	V	-5.49	60.73	68.2	-7.47
11400	51.06	PK	H	3.32	54.38	74.00	-19.62
11400	39.35	AV	H	3.32	42.67	54.00	-11.33
11400	51.09	PK	V	3.32	54.41	74.00	-19.59
11400	39.04	AV	V	3.32	42.36	54.00	-11.64
Cross Channel							
11440	52.72	PK	H	3.42	56.14	74.00	-17.86
11440	40.00	AV	H	3.42	43.42	54.00	-10.58
11440	50.96	PK	V	3.42	54.38	74.00	-19.62
11440	39.14	AV	V	3.42	42.56	54.00	-11.44

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a							
ANT3							
Low Channel							
5460	67.50	PK	H	-6.29	61.21	74	-12.79
5460	53.64	AV	H	-6.29	47.35	54	-6.65
5460	67.46	PK	V	-6.29	61.17	74	-12.83
5460	53.42	AV	V	-6.29	47.13	54	-6.87
5470	66.83	PK	H	-6.26	60.57	68.2	-7.63
5470	66.94	PK	V	-6.26	60.68	68.2	-7.52
11000	51.34	PK	H	4.29	55.63	74.00	-18.37
11000	39.12	AV	H	4.29	43.41	54.00	-10.59
11000	51.52	PK	V	4.29	55.81	74.00	-18.19
11000	38.83	AV	V	4.29	43.12	54.00	-10.88
Middle Channel							
11160	50.74	PK	H	3.5	54.24	74.00	-19.76
11160	38.86	AV	H	3.5	42.36	54.00	-11.64
11160	50.91	PK	V	3.5	54.41	74.00	-19.59
11160	39.25	AV	V	3.5	42.75	54.00	-11.25
High Channel							
5725	65.92	PK	H	-5.49	60.43	68.2	-7.77
5725	65.78	PK	V	-5.49	60.29	68.2	-7.91
11400	51.03	PK	H	3.32	54.35	74.00	-19.65
11400	39.13	AV	H	3.32	42.45	54.00	-11.55
11400	51.14	PK	V	3.32	54.46	74.00	-19.54
11400	38.99	AV	V	3.32	42.31	54.00	-11.69
Cross Channel							
11440	52.23	PK	H	3.42	55.65	74.00	-18.35
11440	40.33	AV	H	3.42	43.75	54.00	-10.25
11440	52.36	PK	V	3.42	55.78	74.00	-18.22
11440	39.56	AV	V	3.42	42.98	54.00	-11.02

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac20							
Low Channel							
5460	67.54	PK	H	-6.29	61.25	74	-12.75
5460	53.61	AV	H	-6.29	47.32	54	-6.68
5460	67.43	PK	V	-6.29	61.14	74	-12.86
5460	53.47	AV	V	-6.29	47.18	54	-6.82
5470	66.90	PK	H	-6.26	60.64	68.2	-7.56
5470	66.98	PK	V	-6.26	60.72	68.2	-7.48
11000	51.03	PK	H	4.29	55.32	74.00	-18.68
11000	39.02	AV	H	4.29	43.31	54.00	-10.69
11000	51.12	PK	V	4.29	55.41	74.00	-18.59
11000	39.06	AV	V	4.29	43.35	54.00	-10.65
Middle Channel							
11160	50.92	PK	H	3.5	54.42	74.00	-19.58
11160	39.13	AV	H	3.5	42.63	54.00	-11.37
11160	50.64	PK	V	3.5	54.14	74.00	-19.86
11160	38.76	AV	V	3.5	42.26	54.00	-11.74
High Channel							
5725	66.85	PK	H	-5.49	61.36	68.2	-6.84
5725	66.83	PK	V	-5.49	61.34	68.2	-6.86
11400	51.32	PK	H	3.32	54.64	74.00	-19.36
11400	38.93	AV	H	3.32	42.25	54.00	-11.75
11400	51.15	PK	V	3.32	54.47	74.00	-19.53
11400	39.06	AV	V	3.32	42.38	54.00	-11.62
Cross Channel							
11440	51.72	PK	H	3.42	55.14	74.00	-18.86
11440	39.72	AV	H	3.42	43.14	54.00	-10.86
11440	51.83	PK	V	3.42	55.25	74.00	-18.75
11440	40.03	AV	V	3.42	43.45	54.00	-10.55

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac40							
Low Channel							
5460	67.54	PK	H	-6.29	61.25	74	-12.75
5460	53.45	AV	H	-6.29	47.16	54	-6.84
5460	67.65	PK	V	-6.29	61.36	74	-12.64
5460	53.52	AV	V	-6.29	47.23	54	-6.77
5470	66.98	PK	H	-6.26	60.72	68.2	-7.48
5470	66.88	PK	V	-6.26	60.62	68.2	-7.58
11020	51.14	PK	H	4.1	55.24	74.00	-18.76
11020	39.25	AV	H	4.1	43.35	54.00	-10.65
11020	51.08	PK	V	4.1	55.18	74.00	-18.82
11020	39.64	AV	V	4.1	43.74	54.00	-10.26
Middle Channel							
11100	52.24	PK	H	3.34	55.58	74.00	-18.42
11100	40.28	AV	H	3.34	43.62	54.00	-10.38
11100	52.40	PK	V	3.34	55.74	74.00	-18.26
11100	39.97	AV	V	3.34	43.31	54.00	-10.69
High Channel							
5725	66.85	PK	H	-5.49	61.36	68.2	-6.84
5725	66.84	PK	V	-5.49	61.35	68.2	-6.85
11340	50.88	PK	H	3.46	54.34	74.00	-19.66
11340	39.01	AV	H	3.46	42.47	54.00	-11.53
11340	50.90	PK	V	3.46	54.36	74.00	-19.64
11340	38.68	AV	V	3.46	42.14	54.00	-11.86
Cross Channel							
11420	52.95	PK	H	3.37	56.32	74.00	-17.68
11420	40.75	AV	H	3.37	44.12	54.00	-9.88
11420	51.99	PK	V	3.37	55.36	74.00	-18.64
11420	40.31	AV	V	3.37	43.68	54.00	-10.32

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Low Channel							
5460	67.34	PK	H	-6.29	61.05	74	-12.95
5460	53.50	AV	H	-6.29	47.21	54	-6.79
5460	67.66	PK	V	-6.29	61.37	74	-12.63
5460	53.33	AV	V	-6.29	47.04	54	-6.96
5470	66.88	PK	H	-6.26	60.62	68.2	-7.58
5470	67.00	PK	V	-6.26	60.74	68.2	-7.46
11060	51.71	PK	H	3.71	55.42	74.00	-18.58
11060	39.46	AV	H	3.71	43.17	54.00	-10.83
11060	51.75	PK	V	3.71	55.46	74.00	-18.54
11060	39.85	AV	V	3.71	43.56	54.00	-10.44
High Channel							
5725	67.31	PK	H	-5.49	61.82	68.2	-6.38
5725	66.95	PK	V	-5.49	61.46	68.2	-6.74
11220	51.01	PK	H	3.6	54.61	74.00	-19.39
11220	39.87	AV	H	3.6	43.47	54.00	-10.53
11220	51.14	PK	V	3.6	54.74	74.00	-19.26
11220	39.75	AV	V	3.6	43.35	54.00	-10.65
Cross Channel							
11380	53.09	PK	H	3.36	56.45	74.00	-17.55
11380	40.09	AV	H	3.36	43.45	54.00	-10.55
11380	52.11	PK	V	3.36	55.47	74.00	-18.53
11380	39.53	AV	V	3.36	42.89	54.00	-11.11

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax20							
Low Channel							
5460	67.38	PK	H	-6.29	61.09	74	-12.91
5460	53.60	AV	H	-6.29	47.31	54	-6.69
5460	67.56	PK	V	-6.29	61.27	74	-12.73
5460	53.66	AV	V	-6.29	47.37	54	-6.63
5470	67.08	PK	H	-6.26	60.82	68.2	-7.38
5470	66.91	PK	V	-6.26	60.65	68.2	-7.55
11000	51.25	PK	H	4.29	55.54	74.00	-18.46
11000	39.06	AV	H	4.29	43.35	54.00	-10.65
11000	51.43	PK	V	4.29	55.72	74.00	-18.28
11000	38.96	AV	V	4.29	43.25	54.00	-10.75
Middle Channel							
11160	50.86	PK	H	3.5	54.36	74.00	-19.64
11160	39.06	AV	H	3.5	42.56	54.00	-11.44
11160	50.74	PK	V	3.5	54.24	74.00	-19.76
11160	38.87	AV	V	3.5	42.37	54.00	-11.63
High Channel							
5725	66.24	PK	H	-5.49	60.75	68.2	-7.45
5725	67.01	PK	V	-5.49	61.52	68.2	-6.68
11400	51.02	PK	H	3.32	54.34	74.00	-19.66
11400	38.82	AV	H	3.32	42.14	54.00	-11.86
11400	51.32	PK	V	3.32	54.64	74.00	-19.36
11400	39.09	AV	V	3.32	42.41	54.00	-11.59
Cross Channel							
11440	52.82	PK	H	3.42	56.24	74.00	-17.76
11440	40.72	AV	H	3.42	44.14	54.00	-9.86
11440	52.15	PK	V	3.42	55.57	74.00	-18.43
11440	39.16	AV	V	3.42	42.58	54.00	-11.42

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax40							
Low Channel							
5460	67.41	PK	H	-6.29	61.12	74	-12.88
5460	53.65	AV	H	-6.29	47.36	54	-6.64
5460	67.44	PK	V	-6.29	61.15	74	-12.85
5460	53.52	AV	V	-6.29	47.23	54	-6.77
5470	67.02	PK	H	-6.26	60.76	68.2	-7.44
5470	66.90	PK	V	-6.26	60.64	68.2	-7.56
11020	51.24	PK	H	4.1	55.34	74.00	-18.66
11020	39.35	AV	H	4.1	43.45	54.00	-10.55
11020	51.15	PK	V	4.1	55.25	74.00	-18.75
11020	39.24	AV	V	4.1	43.34	54.00	-10.66
Middle Channel							
11100	52.36	PK	H	3.34	55.70	74.00	-18.30
11100	40.01	AV	H	3.34	43.35	54.00	-10.65
11100	52.20	PK	V	3.34	55.54	74.00	-18.46
11100	40.30	AV	V	3.34	43.64	54.00	-10.36
High Channel							
5725	66.17	PK	H	-5.49	60.68	68.2	-7.52
5725	66.92	PK	V	-5.49	61.43	68.2	-6.77
11340	50.96	PK	H	3.46	54.42	74.00	-19.58
11340	39.00	AV	H	3.46	42.46	54.00	-11.54
11340	51.01	PK	V	3.46	54.47	74.00	-19.53
11340	38.93	AV	V	3.46	42.39	54.00	-11.61
Cross Channel							
11420	53.19	PK	H	3.37	56.56	74.00	-17.44
11420	41.01	AV	H	3.37	44.38	54.00	-9.62
11420	52.38	PK	V	3.37	55.75	74.00	-18.25
11420	40.45	AV	V	3.37	43.82	54.00	-10.18

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
Low Channel							
5460	61.26	PK	H	-6.29	54.97	74.00	-19.03
5460	53.53	AV	H	-6.29	47.24	54	-6.76
5460	67.55	PK	V	-6.29	61.26	74	-12.74
5460	53.43	AV	V	-6.29	47.14	54	-6.86
5470	63.45	PK	H	-6.26	57.19	68.20	-11.01
5470	68.10	PK	V	-6.26	61.84	68.20	-6.36
11060	51.97	PK	H	3.71	55.68	74.00	-18.32
11060	39.74	AV	H	3.71	43.45	54.00	-10.55
11060	51.76	PK	V	3.71	55.47	74.00	-18.53
11060	39.64	AV	V	3.71	43.35	54.00	-10.65
High Channel							
5726.82	71.54	PK	H	-5.47	66.07	68.2	-2.13
5729.23	71.33	PK	V	-5.44	65.89	68.2	-2.31
11220	50.86	PK	H	3.6	54.46	74.00	-19.54
11220	40.08	AV	H	3.6	43.68	54.00	-10.32
11220	50.86	PK	V	3.6	54.46	74.00	-19.54
11220	40.05	AV	V	3.6	43.65	54.00	-10.35
Cross Channel							
11380	52.49	PK	H	3.36	55.85	74.00	-18.15
11380	40.27	AV	H	3.36	43.63	54.00	-10.37
11380	52.96	PK	V	3.36	56.32	74.00	-17.68
11380	40.29	AV	V	3.36	43.65	54.00	-10.35

5725-5850MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT0							
Low Channel							
5725	95.53	PK	H	-5.49	90.04	122.2	-32.16
5725	96.84	PK	V	-5.49	91.35	122.2	-30.85
5720	90.67	PK	H	-5.53	85.14	110.8	-25.66
5720	90.06	PK	V	-5.53	84.53	110.8	-26.27
5700	81.08	PK	H	-5.72	75.36	105.2	-29.84
5700	82.27	PK	V	-5.72	76.55	105.2	-28.65
5650	66.3	PK	H	-5.86	60.44	68.2	-7.76
5650	66.42	PK	V	-5.86	60.56	68.2	-7.64
11490	50.40	PK	H	3.54	53.94	74.00	-20.06
11490	50.42	PK	V	3.54	53.96	74.00	-20.04
Middle Channel							
11570	50.58	PK	H	3.3	53.88	74.00	-20.12
11570	50.47	PK	V	3.3	53.77	74.00	-20.23
High Channel							
5850	94.06	PK	H	-4.68	89.38	122.2	-32.82
5850	95.03	PK	V	-4.68	90.35	122.2	-31.85
5855	87.29	PK	H	-4.65	82.64	110.8	-28.16
5855	85.00	PK	V	-4.65	80.35	110.8	-30.45
5875	77.24	PK	H	-4.57	72.67	105.2	-32.53
5875	78.25	PK	V	-4.57	73.68	105.2	-31.52
5925	66.71	PK	H	-4.45	62.26	68.2	-5.94
5925	67.08	PK	V	-4.45	62.63	68.2	-5.57
11650	50.52	PK	H	3.42	53.94	74.00	-20.06
11650	50.54	PK	V	3.42	53.96	74.00	-20.04

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
ANT1							
Low Channel							
5725	97.85	PK	H	-5.49	92.36	122.2	-29.84
5725	96.14	PK	V	-5.49	90.65	122.2	-31.55
5720	88.01	PK	H	-5.53	82.48	110.8	-28.32
5720	88.17	PK	V	-5.53	82.64	110.8	-28.16
5700	80.1	PK	H	-5.72	74.38	105.2	-30.82
5700	78.39	PK	V	-5.72	72.67	105.2	-32.53
5650	66.28	PK	H	-5.86	60.42	68.2	-7.78
5650	66.1	PK	V	-5.86	60.24	68.2	-7.96
11490	50.43	PK	H	3.54	53.97	74.00	-20.03
11490	50.32	PK	V	3.54	53.86	74.00	-20.14
Middle Channel							
11570	50.66	PK	H	3.3	53.96	74.00	-20.04
11570	50.58	PK	V	3.3	53.88	74.00	-20.12
High Channel							
5850	95.33	PK	H	-4.68	90.65	122.2	-31.55
5850	94.25	PK	V	-4.68	89.57	122.2	-32.63
5855	87.29	PK	H	-4.65	82.64	110.8	-28.16
5855	86.79	PK	V	-4.65	82.14	110.8	-28.66
5875	77.2	PK	H	-4.57	72.63	105.2	-32.57
5875	76.29	PK	V	-4.57	71.72	105.2	-33.48
5925	67.13	PK	H	-4.45	62.68	68.2	-5.52
5925	66.88	PK	V	-4.45	62.43	68.2	-5.77
11650	50.49	PK	H	3.42	53.91	74.00	-20.09
11650	50.52	PK	V	3.42	53.94	74.00	-20.06

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a							
ANT2							
Low Channel							
5725	97.17	PK	H	-5.49	91.68	122.2	-30.52
5725	96.85	PK	V	-5.49	91.36	122.2	-30.84
5720	88.45	PK	H	-5.53	82.92	110.8	-27.88
5720	87.84	PK	V	-5.53	82.31	110.8	-28.49
5700	79.9	PK	H	-5.72	74.18	105.2	-31.02
5700	78.07	PK	V	-5.72	72.35	105.2	-32.85
5650	66.21	PK	H	-5.86	60.35	68.2	-7.85
5650	66.49	PK	V	-5.86	60.63	68.2	-7.57
11490	50.35	PK	H	3.54	53.89	74.00	-20.11
11490	49.91	PK	V	3.54	53.45	74.00	-20.55
Middle Channel							
11570	50.62	PK	H	3.3	53.92	74.00	-20.08
11570	50.40	PK	V	3.3	53.70	74.00	-20.30
High Channel							
5850	95.42	PK	H	-4.68	90.74	122.2	-31.46
5850	94.36	PK	V	-4.68	89.68	122.2	-32.52
5855	86.91	PK	H	-4.65	82.26	110.8	-28.54
5855	87.29	PK	V	-4.65	82.64	110.8	-28.16
5875	77.43	PK	H	-4.57	72.86	105.2	-32.34
5875	75.88	PK	V	-4.57	71.31	105.2	-33.89
5925	66.8	PK	H	-4.45	62.35	68.2	-5.85
5925	66.93	PK	V	-4.45	62.48	68.2	-5.72
11650	50.52	PK	H	3.42	53.94	74.00	-20.06
11650	50.57	PK	V	3.42	53.99	74.00	-20.01

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a							
ANT3							
Low Channel							
5725	96.15	PK	H	-5.49	90.66	122.2	-31.54
5725	94.8	PK	V	-5.49	89.31	122.2	-32.89
5720	86.88	PK	H	-5.53	81.35	110.8	-29.45
5720	86.15	PK	V	-5.53	80.62	110.8	-30.18
5700	80.2	PK	H	-5.72	74.48	105.2	-30.72
5700	78.4	PK	V	-5.72	72.68	105.2	-32.52
5650	66.4	PK	H	-5.86	60.54	68.2	-7.66
5650	66.13	PK	V	-5.86	60.27	68.2	-7.93
11490	50.37	PK	H	3.54	53.91	74.00	-20.09
11490	50.28	PK	V	3.54	53.82	74.00	-20.18
Middle Channel							
11570	50.54	PK	H	3.3	53.84	74.00	-20.16
11570	50.48	PK	V	3.3	53.78	74.00	-20.22
High Channel							
5850	95.32	PK	H	-4.68	90.64	122.2	-31.56
5850	94.99	PK	V	-4.68	90.31	122.2	-31.89
5855	86	PK	H	-4.65	81.35	110.8	-29.45
5855	87.3	PK	V	-4.65	82.65	110.8	-28.15
5875	76.91	PK	H	-4.57	72.34	105.2	-32.86
5875	77.21	PK	V	-4.57	72.64	105.2	-32.56
5925	66.91	PK	H	-4.45	62.46	68.2	-5.74
5925	67.17	PK	V	-4.45	62.72	68.2	-5.48
11650	50.42	PK	H	3.42	53.84	74.00	-20.16
11650	50.45	PK	V	3.42	53.87	74.00	-20.13

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5725	95.85	PK	H	-5.49	90.36	122.2	-31.84
5725	96.17	PK	V	-5.49	90.68	122.2	-31.52
5720	89.88	PK	H	-5.53	84.35	110.8	-26.45
5720	88.89	PK	V	-5.53	83.36	110.8	-27.44
5700	81.2	PK	H	-5.72	75.48	105.2	-29.72
5700	80.53	PK	V	-5.72	74.81	105.2	-30.39
5650	66.11	PK	H	-5.86	60.25	68.2	-7.95
5650	66.29	PK	V	-5.86	60.43	68.2	-7.77
11490	50.37	PK	H	3.54	53.91	74.00	-20.09
11490	50.35	PK	V	3.54	53.89	74.00	-20.11
Middle Channel							
11570	50.48	PK	H	3.3	53.78	74.00	-20.22
11570	50.29	PK	V	3.3	53.59	74.00	-20.41
High Channel							
5850	94.36	PK	H	-4.68	89.68	122.2	-32.52
5850	94.92	PK	V	-4.68	90.24	122.2	-31.96
5855	87.29	PK	H	-4.65	82.64	110.8	-28.16
5855	86	PK	V	-4.65	81.35	110.8	-29.45
5875	77.25	PK	H	-4.57	72.68	105.2	-32.52
5875	76.25	PK	V	-4.57	71.68	105.2	-33.52
5925	67.07	PK	H	-4.45	62.62	68.2	-5.58
5925	66.86	PK	V	-4.45	62.41	68.2	-5.79
11650	50.55	PK	H	3.42	53.97	74.00	-20.03
11650	50.42	PK	V	3.42	53.84	74.00	-20.16

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5725	96.03	PK	H	-5.49	90.54	122.2	-31.66
5725	95.84	PK	V	-5.49	90.35	122.2	-31.85
5720	89.21	PK	H	-5.53	83.68	110.8	-27.12
5720	87.91	PK	V	-5.53	82.38	110.8	-28.42
5700	78.97	PK	H	-5.72	73.25	105.2	-31.95
5700	78.4	PK	V	-5.72	72.68	105.2	-32.52
5650	66.21	PK	H	-5.86	60.35	68.2	-7.85
5650	66.6	PK	V	-5.86	60.74	68.2	-7.46
11510	50.27	PK	H	3.53	53.80	74.00	-20.20
11510	50.44	PK	V	3.53	53.97	74.00	-20.03
High Channel							
5850	96.03	PK	H	-4.68	91.35	122.2	-30.85
5850	95.15	PK	V	-4.68	90.47	122.2	-31.73
5855	87	PK	H	-4.65	82.35	110.8	-28.45
5855	86.24	PK	V	-4.65	81.59	110.8	-29.21
5875	77.33	PK	H	-4.57	72.76	105.2	-32.44
5875	76.21	PK	V	-4.57	71.64	105.2	-33.56
5925	67.07	PK	H	-4.45	62.62	68.2	-5.58
5925	66.79	PK	V	-4.45	62.34	68.2	-5.86
11590	50.75	PK	H	3.21	53.96	74.00	-20.04
11590	50.47	PK	V	3.21	53.68	74.00	-20.32

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5725	96.84	PK	H	-5.49	91.35	122.2	-30.85
5725	95.97	PK	V	-5.49	90.48	122.2	-31.72
5720	87.84	PK	H	-5.53	82.31	110.8	-28.49
5720	86.91	PK	V	-5.53	81.38	110.8	-29.42
5700	79.48	PK	H	-5.72	73.76	105.2	-31.44
5700	78.41	PK	V	-5.72	72.69	105.2	-32.51
5650	66.32	PK	H	-5.86	60.46	68.2	-7.74
5650	66.44	PK	V	-5.86	60.58	68.2	-7.62
5850	95.04	PK	H	-4.68	90.36	122.2	-31.84
5850	94.03	PK	V	-4.68	89.35	122.2	-32.85
5855	86.8	PK	H	-4.65	82.15	110.8	-28.65
5855	86.33	PK	V	-4.65	81.68	110.8	-29.12
5875	76.99	PK	H	-4.57	72.42	105.2	-32.78
5875	76.21	PK	V	-4.57	71.64	105.2	-33.56
5925	66.86	PK	H	-4.45	62.41	68.2	-5.79
5925	66.72	PK	V	-4.45	62.27	68.2	-5.93
11550	50.60	PK	H	3.37	53.97	74.00	-20.03
11550	50.55	PK	V	3.37	53.92	74.00	-20.08

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax20							
Low Channel							
5725	103.35	PK	H	-5.49	97.86	122.2	-24.34
5725	105.55	PK	V	-5.49	100.06	122.2	-22.14
5720	98.07	PK	H	-5.53	92.54	110.8	-18.26
5720	95.49	PK	V	-5.53	89.96	110.8	-20.84
5700	80.28	PK	H	-5.72	74.56	105.2	-30.64
5700	85.2	PK	V	-5.72	79.48	105.2	-25.72
5650	66.6	PK	H	-5.86	60.74	68.2	-7.46
5650	66.38	PK	V	-5.86	60.52	68.2	-7.68
11490	50.45	PK	H	3.54	53.99	74.00	-20.01
11490	50.37	PK	V	3.54	53.91	74.00	-20.09
Middle Channel							
11570	50.58	PK	H	3.3	53.88	74.00	-20.12
11570	50.62	PK	V	3.3	53.92	74.00	-20.08
High Channel							
5850	97.60	PK	H	-4.68	92.92	122.2	-29.28
5850	95.8	PK	V	-4.68	91.12	122.2	-31.08
5855	86.89	PK	H	-4.65	82.24	110.8	-28.56
5855	86.67	PK	V	-4.65	82.02	110.8	-28.78
5875	77.01	PK	H	-4.57	72.44	105.2	-32.76
5850	77.54	PK	V	-4.57	72.97	105.2	-32.23
5925	67.18	PK	H	-4.45	62.73	68.2	-5.47
5925	66.91	PK	V	-4.45	62.46	68.2	-5.74
11650	50.54	PK	H	3.42	53.96	74.00	-20.04
11650	50.44	PK	V	3.42	53.86	74.00	-20.14

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5725	97.06	PK	H	-5.49	91.57	122.2	-30.63
5725	95.88	PK	V	-5.49	90.39	122.2	-31.81
5720	88.01	PK	H	-5.53	82.48	110.8	-28.32
5720	87.17	PK	V	-5.53	81.64	110.8	-29.16
5700	79.56	PK	H	-5.72	73.84	105.2	-31.36
5700	78.41	PK	V	-5.72	72.69	105.2	-32.51
5650	66.34	PK	H	-5.86	60.48	68.2	-7.72
5650	66.54	PK	V	-5.86	60.68	68.2	-7.52
11510	50.39	PK	H	3.53	53.92	74.00	-20.08
11510	50.16	PK	V	3.53	53.69	74.00	-20.31
High Channel							
5850	96.03	PK	H	-4.68	91.35	122.2	-30.85
5850	94.32	PK	V	-4.68	89.64	122.2	-32.56
5855	87.93	PK	H	-4.65	83.28	110.8	-27.52
5855	86.99	PK	V	-4.65	82.34	110.8	-28.46
5875	77.82	PK	H	-4.57	73.25	105.2	-31.95
5875	77.25	PK	V	-4.57	72.68	105.2	-32.52
5925	67.07	PK	H	-4.45	62.62	68.2	-5.58
5925	66.9	PK	V	-4.45	62.45	68.2	-5.75
11590	50.68	PK	H	3.21	53.89	74.00	-20.11
11590	50.69	PK	V	3.21	53.90	74.00	-20.10

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
Middle Channel							
5725	97.18	PK	H	-5.49	91.69	122.2	-30.51
5725	96.07	PK	V	-5.49	90.58	122.2	-31.62
5720	87.65	PK	H	-5.53	82.12	110.8	-28.68
5720	86.88	PK	V	-5.53	81.35	110.8	-29.45
5700	79.3	PK	H	-5.72	73.58	105.2	-31.62
5700	78.1	PK	V	-5.72	72.38	105.2	-32.82
5650	66.57	PK	H	-5.86	60.71	68.2	-7.49
5650	66.48	PK	V	-5.86	60.62	68.2	-7.58
5850	95.33	PK	H	-4.68	90.65	122.2	-31.55
5850	94.25	PK	V	-4.68	89.57	122.2	-32.63
5855	87.03	PK	H	-4.65	82.38	110.8	-28.42
5855	87.29	PK	V	-4.65	82.64	110.8	-28.16
5875	78.21	PK	H	-4.57	73.64	105.2	-31.56
5875	77.05	PK	V	-4.57	72.48	105.2	-32.72
5925	67.09	PK	H	-4.45	62.64	68.2	-5.56
5925	66.83	PK	V	-4.45	62.38	68.2	-5.82
11550	50.54	PK	H	3.37	53.91	74.00	-20.09
11550	50.58	PK	V	3.37	53.95	74.00	-20.05

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Factor + Reading

Margin = Corrected. Amplitude - Limit

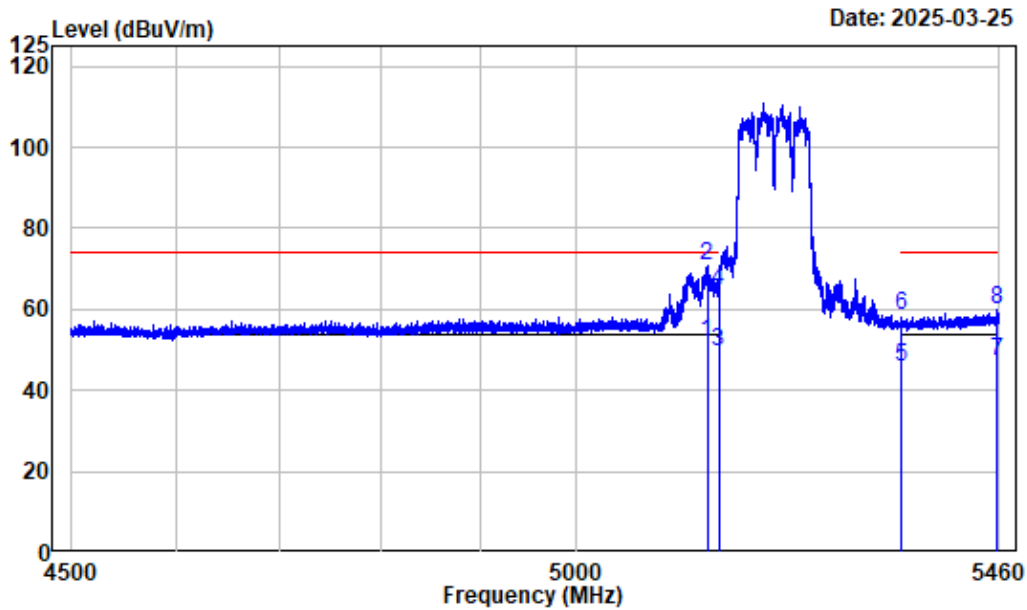
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots**Band Edge (Listed with the worst margin test plots)**

5150-5250MHz

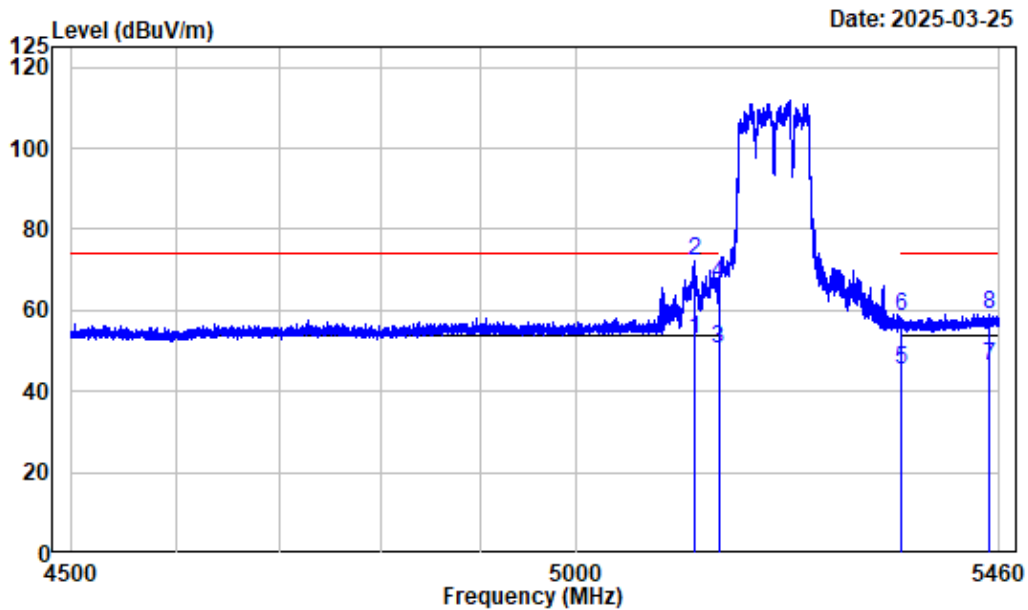
Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band1_AC80_5210

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5137.760	-7.46	59.33	51.87	54.00	-2.13	Average
2	5137.760	-7.46	78.32	70.86	74.00	-3.14	Peak
3	5150.000	-7.45	57.00	49.55	54.00	-4.45	Average
4	5150.000	-7.45	72.12	64.67	74.00	-9.33	Peak
5	5350.000	-6.74	52.48	45.74	54.00	-8.26	Average
6	5350.000	-6.74	65.00	58.26	74.00	-15.74	Peak
7	5456.640	-6.31	53.60	47.29	54.00	-6.71	Average
8	5456.640	-6.31	66.02	59.71	74.00	-14.29	Peak

Vertical

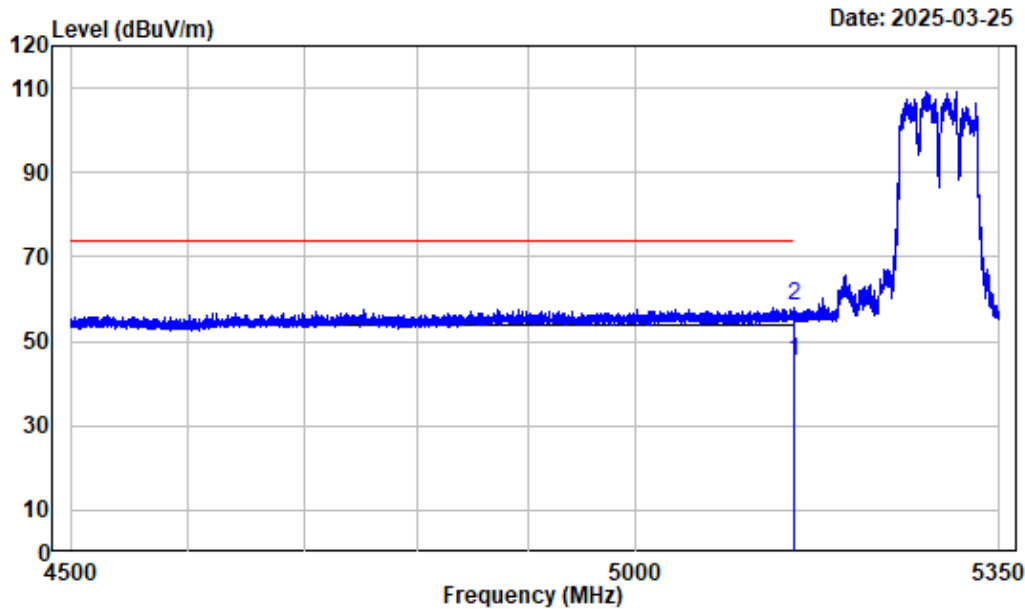


Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band1_AC80_5210

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5124.438	-7.47	60.14	52.67	54.00	-1.33	Average
2	5124.438	-7.47	79.73	72.26	74.00	-1.74	Peak
3	5150.000	-7.45	57.89	50.44	54.00	-3.56	Average
4	5150.000	-7.45	73.78	66.33	74.00	-7.67	Peak
5	5350.000	-6.74	51.97	45.23	54.00	-8.77	Average
6	5350.000	-6.74	65.38	58.64	74.00	-15.36	Peak
7	5448.119	-6.33	52.41	46.08	54.00	-7.92	Average
8	5448.119	-6.33	65.24	58.91	74.00	-15.09	Peak

5250-5350MHz:

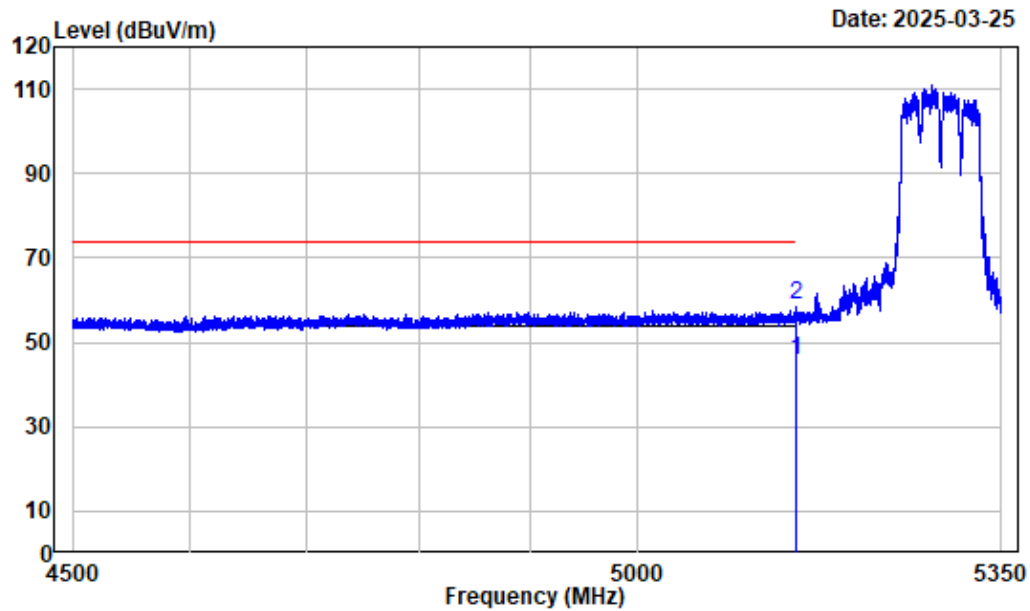
Left Band edge_ Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band2_AC80_5290

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.45	52.78	45.33	54.00	-8.67	Average
2	5150.000	-7.45	65.92	58.47	74.00	-15.53	Peak

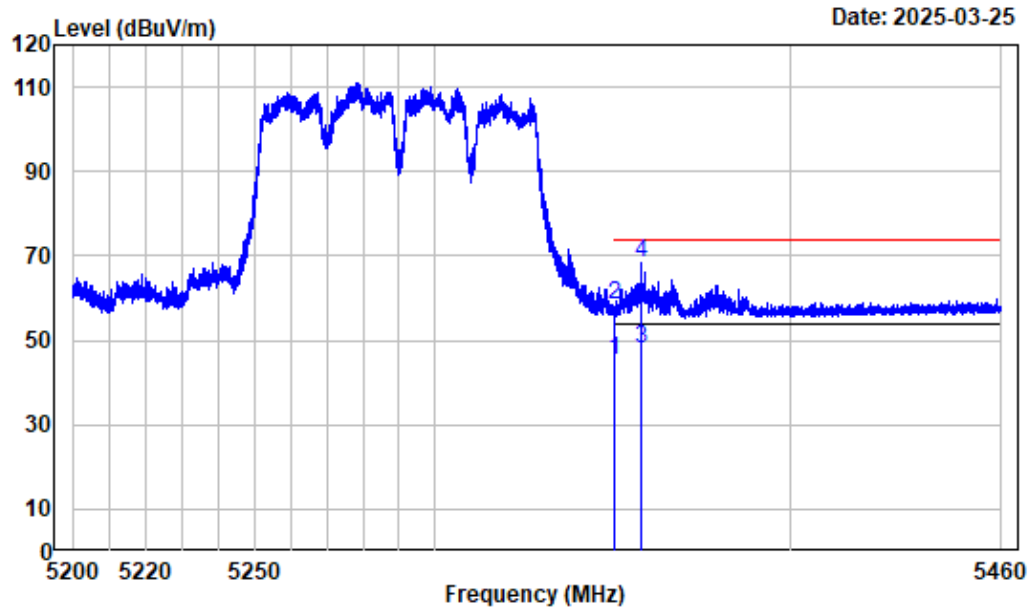
Left Band edge_Vertical



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band2_AC80_5290

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.45	53.10	45.65	54.00	-8.35	Average
2	5150.000	-7.45	66.16	58.71	74.00	-15.29	Peak

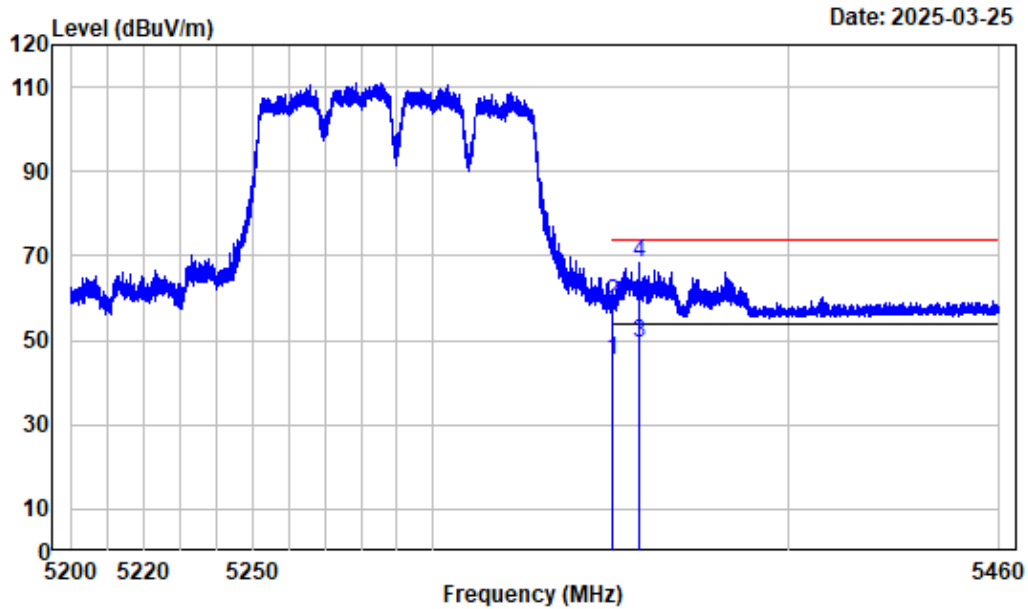
Right Band edge_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band2_AC80_5290

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.000	-6.74	51.99	45.25	54.00	-8.75	Average
2	5350.000	-6.74	64.99	58.25	74.00	-15.75	Peak
3	5357.840	-6.71	54.59	47.88	54.00	-6.12	Average
4	5357.840	-6.71	75.19	68.48	74.00	-5.52	Peak

Right Band edge_Vertical

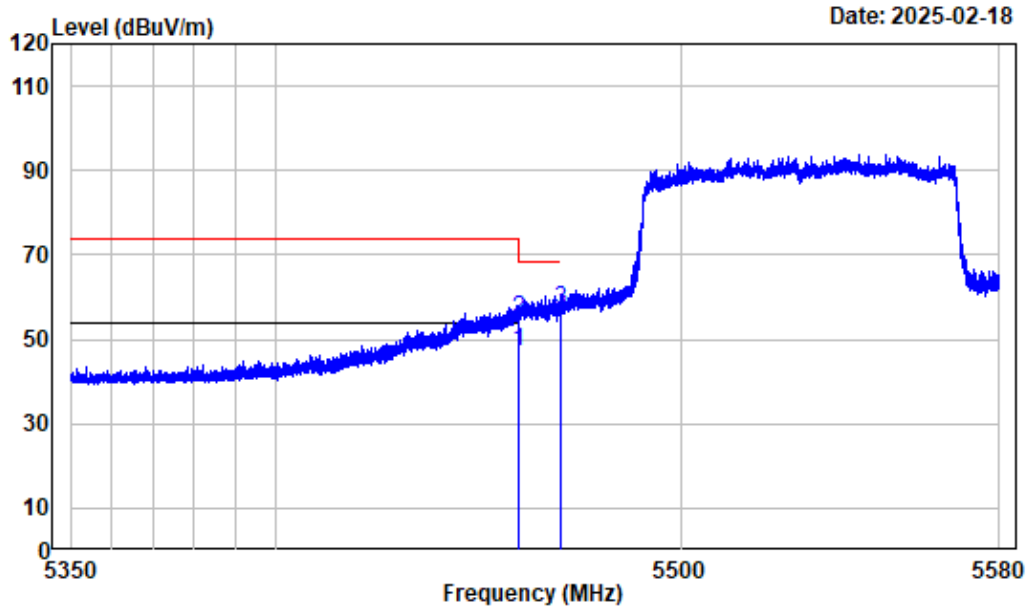


Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_Band2_AC80_5290

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.000	-6.74	52.08	45.34	54.00	-8.66	Average
2	5350.000	-6.74	65.39	58.65	74.00	-15.35	Peak
3	5357.645	-6.72	55.95	49.23	54.00	-4.77	Average
4	5357.645	-6.72	75.28	68.56	74.00	-5.44	Peak

5470-5725MHz:

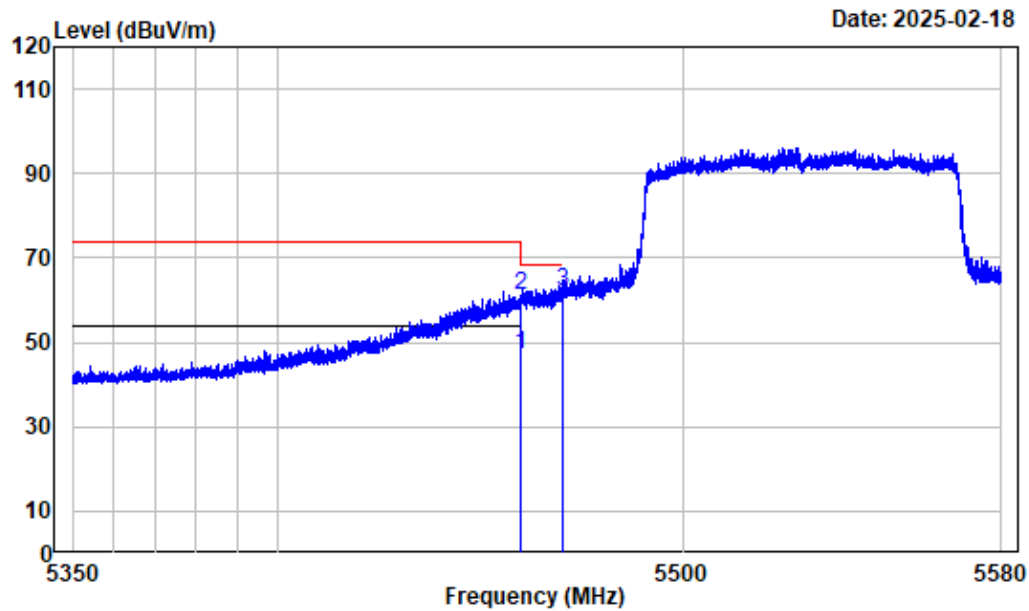
Left Band edge_ Horizontal



Condition : Horizontal
 Project No. : 2401X96326E-RF
 Tester : Wing K Ji
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 : Average reading: RBW:1MHz VBW:1kHz Detector:Peak
 Note : 5GWiFi_Band3_AX80_5530

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	53.53	47.24	54.00	-6.76	Average
2	5460.000	-6.29	61.26	54.97	74.00	-19.03	Peak
3	5470.000	-6.26	63.45	57.19	68.20	-11.01	Peak

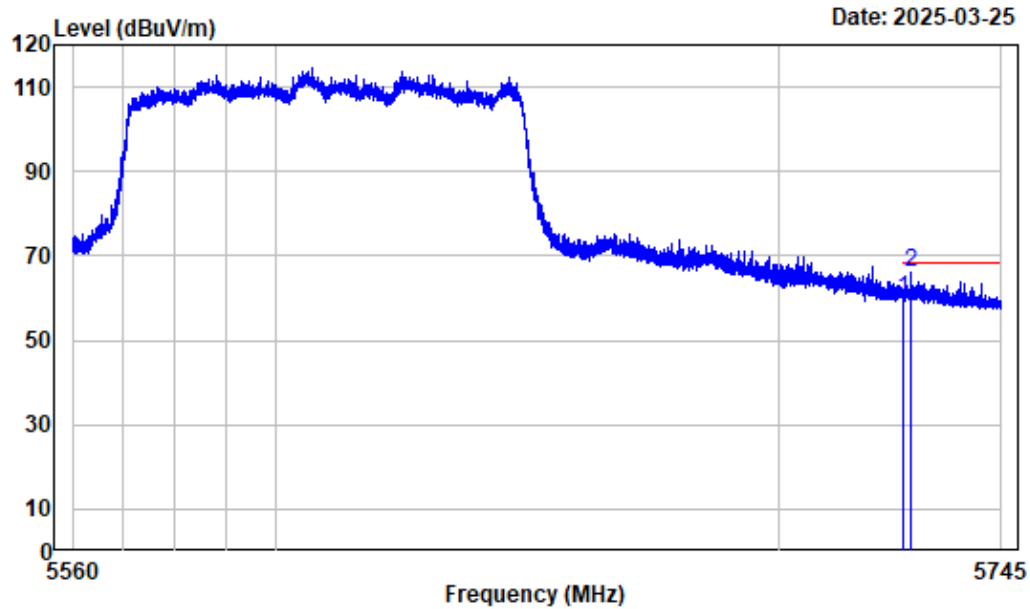
Left Band edge_Vertical



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi_Band3_AX80_5530

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	53.43	47.14	54.00	-6.86	Average
2	5460.000	-6.29	67.55	61.26	74.00	-12.74	Peak
3	5470.000	-6.26	68.10	61.84	68.20	-6.36	Peak

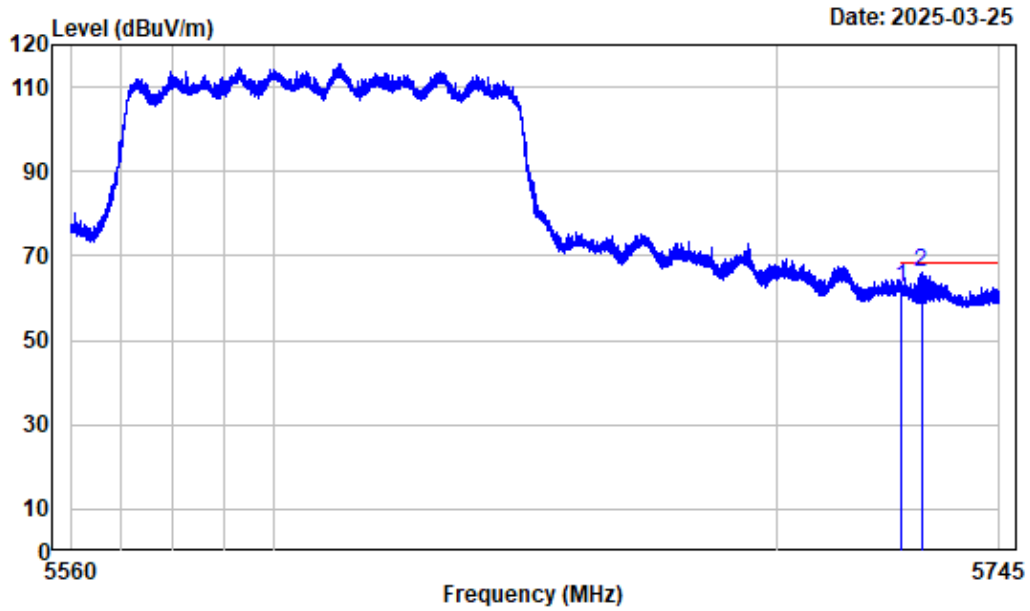
Right Band edge_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX80_5610

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	-5.49	65.47	59.98	68.20	-8.22	Peak
2	5726.821	-5.47	71.54	66.07	68.20	-2.13	Peak

Right Band edge_Vertical

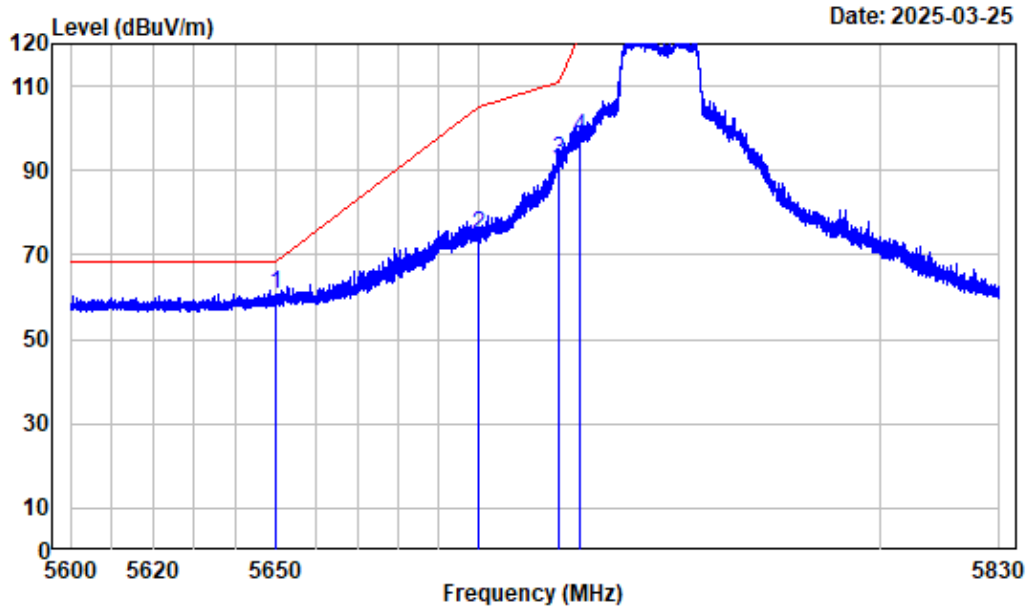


Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX80_5610

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	-5.49	68.11	62.62	68.20	-5.58 Peak
2	5729.227	-5.44	71.33	65.89	68.20	-2.31 Peak

5725-5850MHz:

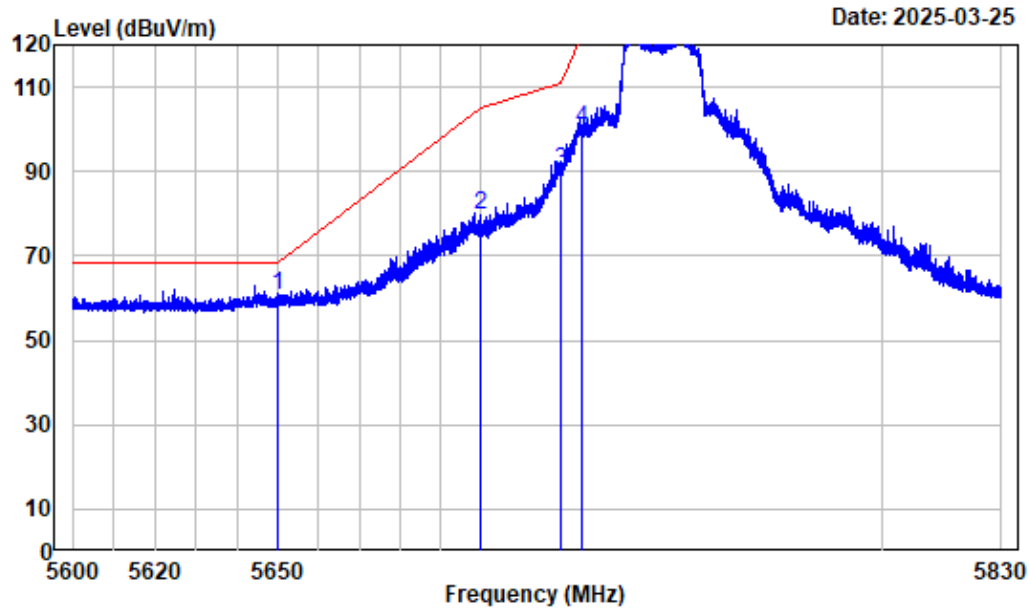
Left Band edge_ Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band4_AX20_5745

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	66.60	60.74	68.20	-7.46	Peak
2	5700.000	-5.72	80.28	74.56	105.20	-30.64	Peak
3	5720.000	-5.53	98.07	92.54	110.80	-18.26	Peak
4	5725.000	-5.49	103.35	97.86	122.20	-24.34	Peak

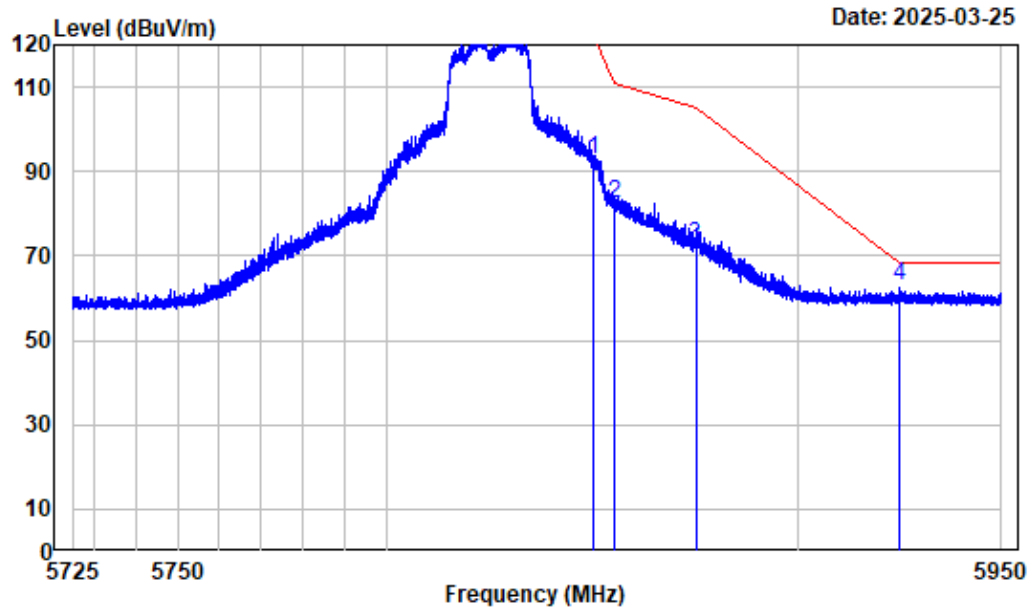
Left Band edge_Vertical



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band4_AX20_5745

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	66.38	60.52	68.20	-7.68	Peak
2	5700.000	-5.72	85.20	79.48	105.20	-25.72	Peak
3	5720.000	-5.53	95.49	89.96	110.80	-20.84	Peak
4	5725.000	-5.49	105.55	100.06	122.20	-22.14	Peak

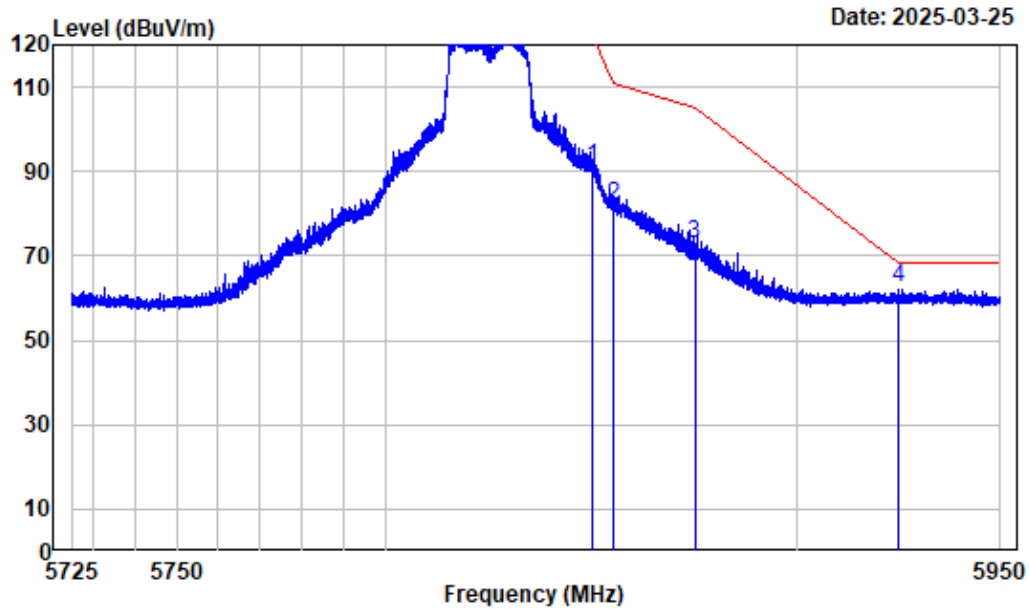
Right Band edge_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_ANT1_Band4_AX20_5825

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.68	97.60	92.92	122.20	-29.28	Peak
2	5855.000	-4.65	86.89	82.24	110.80	-28.56	Peak
3	5875.000	-4.57	77.01	72.44	105.20	-32.76	Peak
4	5925.000	-4.45	67.18	62.73	68.20	-5.47	Peak

Right Band edge_Vertical



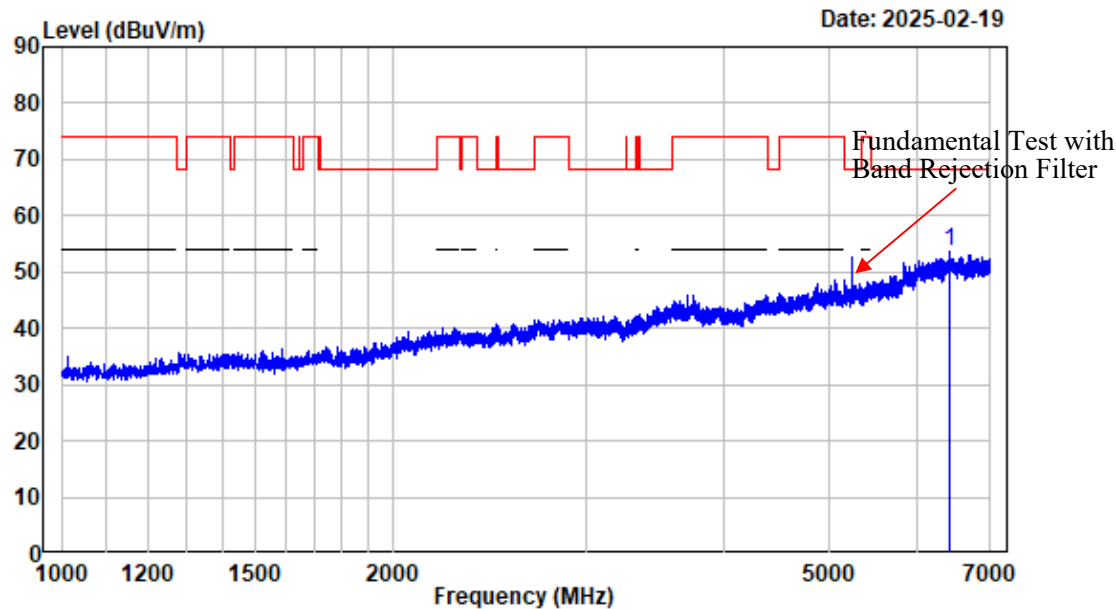
Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_ANT1_Band4_AX20_5825

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.68	95.80	91.12	122.20	-31.08	Peak
2	5855.000	-4.65	86.67	82.02	110.80	-28.78	Peak
3	5875.000	-4.57	77.54	72.97	105.20	-32.23	Peak
4	5925.000	-4.45	66.91	62.46	68.20	-5.74	Peak

Listed with the worst harmonic margin test plot

SISO:

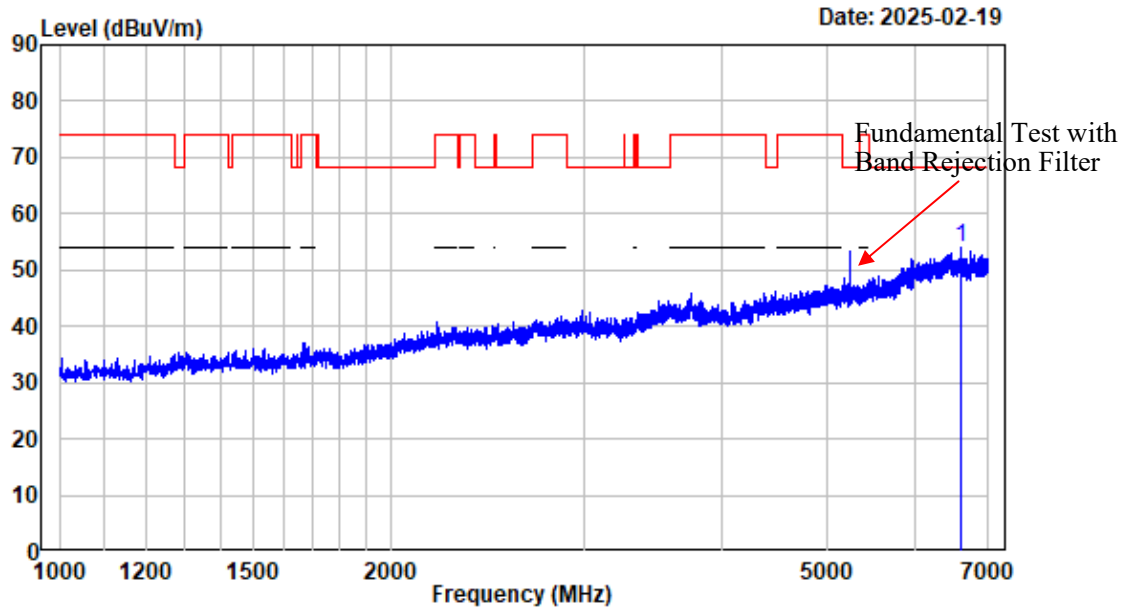
1-7GHz_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	6433.679	-2.88	56.54	53.66	68.20 -14.54 Peak

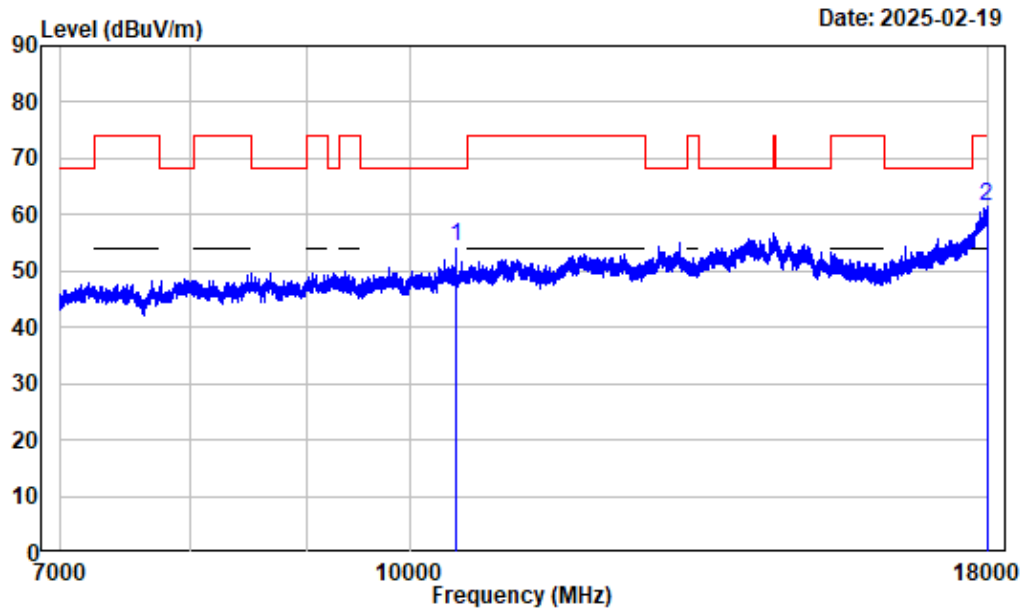
1-7GHz_Vertical



Condition : Vertical
 Project No. : 2401X96326E-RF
 Tester : Wing K Ji
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : ANT3_5GWiFi_Band1_A_5240

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6601.700	-3.13	56.99	53.86	68.20	-14.34	Peak

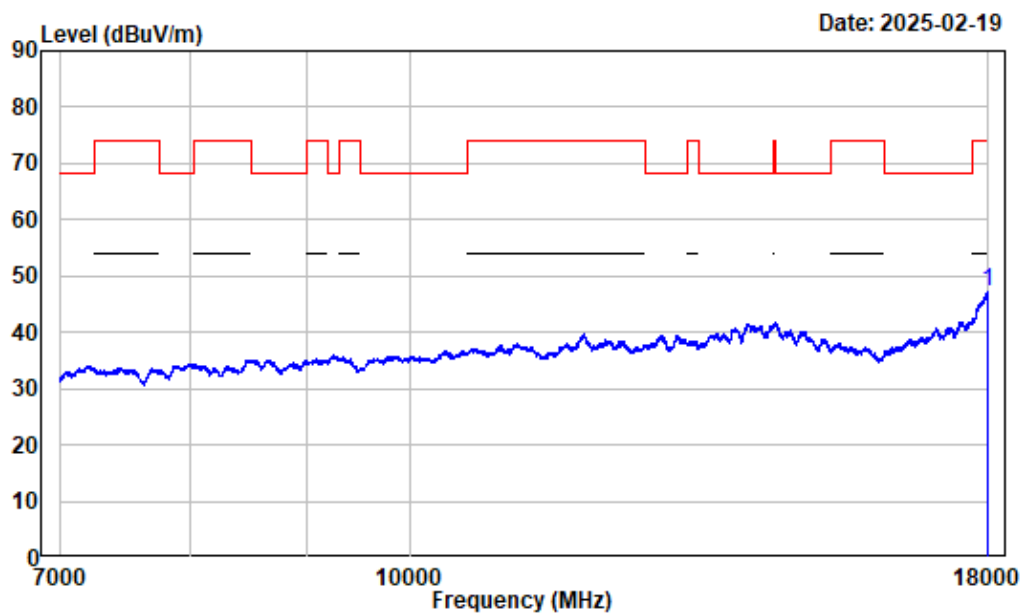
7-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	2.25	52.03	54.28	68.20	-13.92	Peak
2	17972.500	13.07	48.28	61.35	74.00	-12.65	Peak

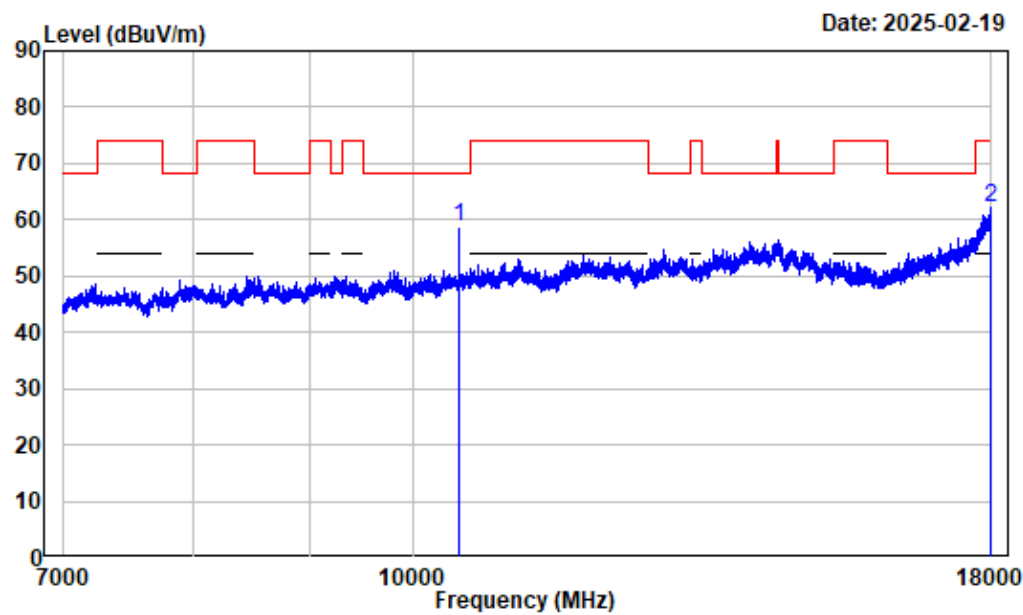
7-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17991.750	13.16	34.08	47.24	54.00	-6.76	Average

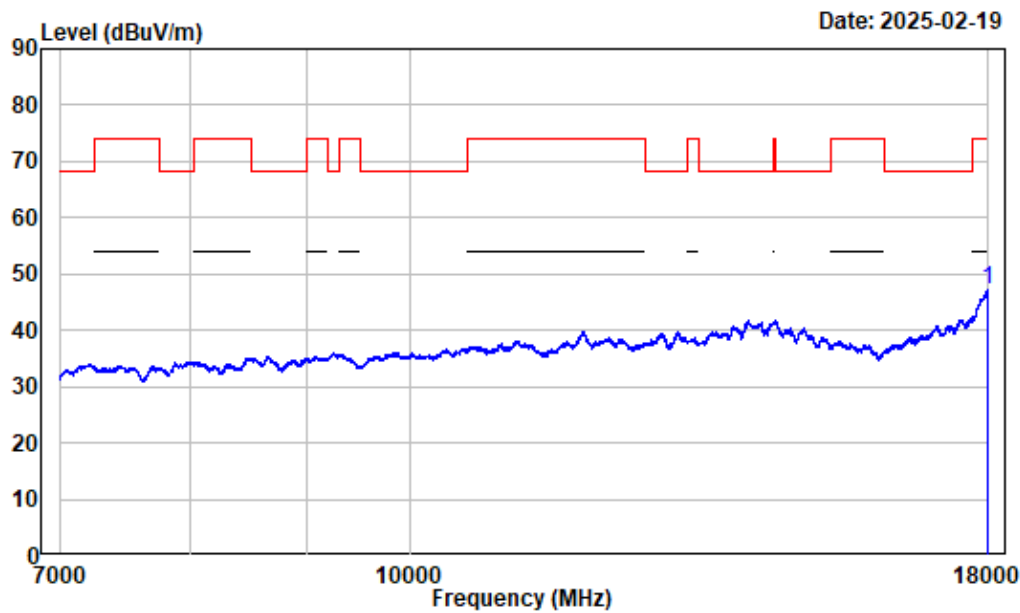
7-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	2.25	56.40	58.65	68.20	-9.55	Peak
2 17984.870	13.12	49.12	62.24	74.00	-11.76	Peak

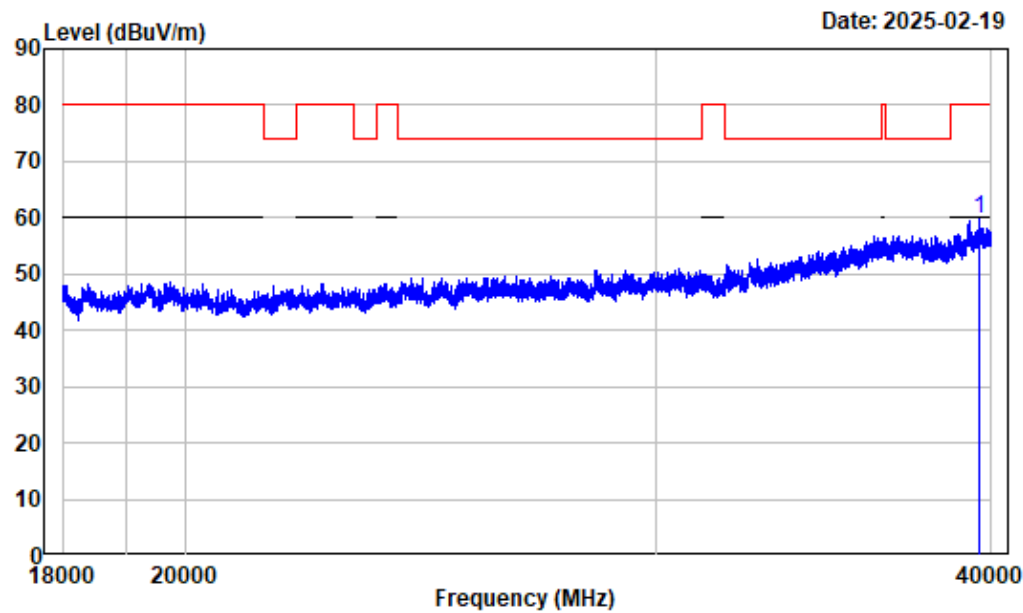
7-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 17991.750	13.16	34.07	47.23	54.00	-6.77	Average

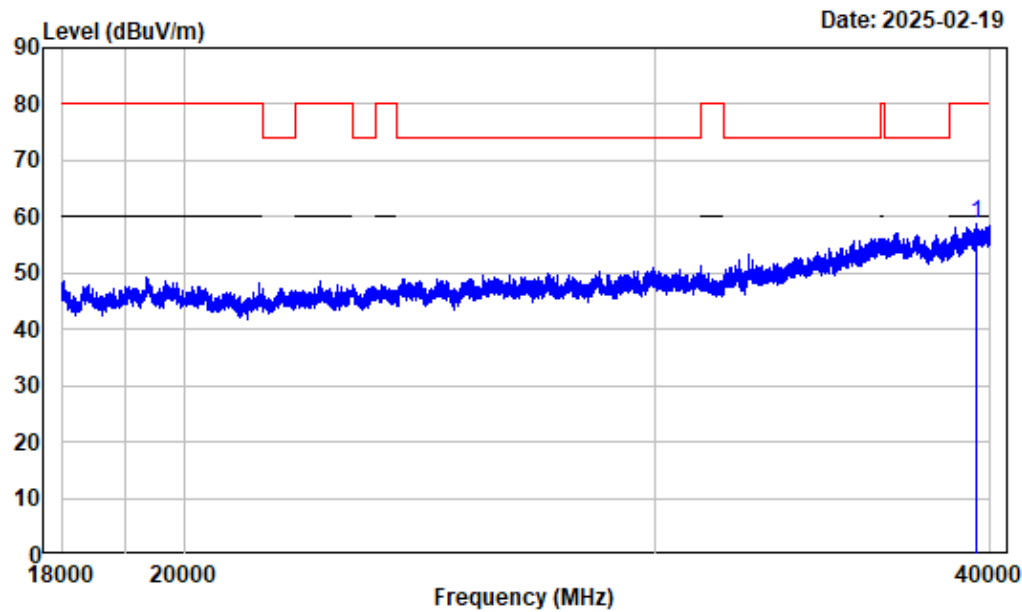
18-40GHz_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 39603.950	22.79	36.89	59.68	80.00	-20.32	Peak

18-40GHz_Vertical

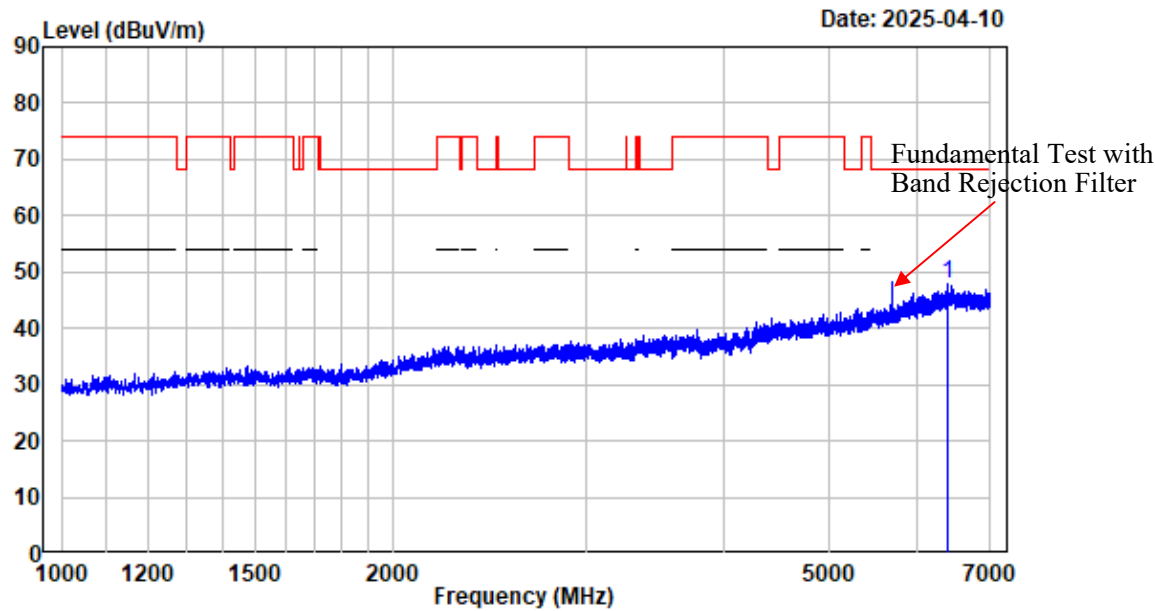


Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : ANT3_5GWiFi_Band1_A_5240

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39537.940	22.69	36.07	58.76	80.00	-21.24	Peak

MIMO:

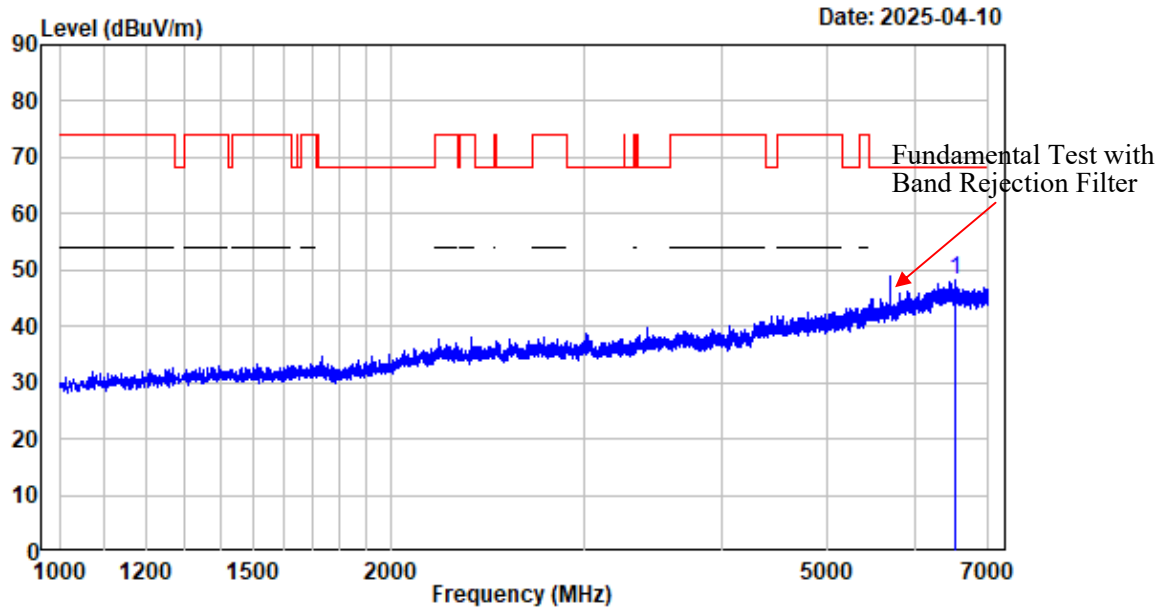
1-7GHz_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6411.176	-2.89	50.62	47.73	68.20	-20.47	Peak

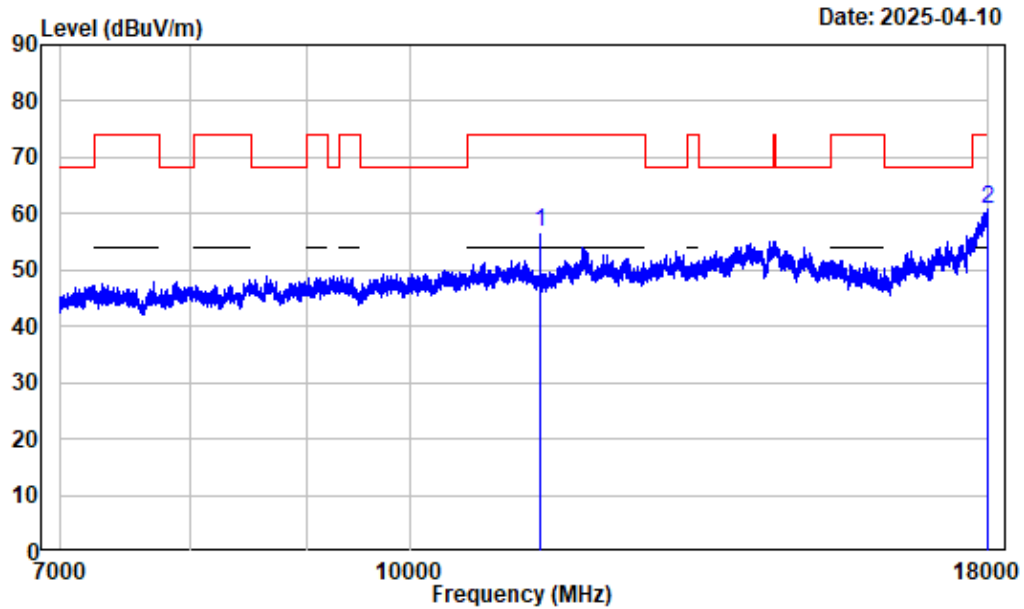
1-7GHz_Vertical



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6543.193	-3.02	51.28	48.26	68.20	-19.94	Peak

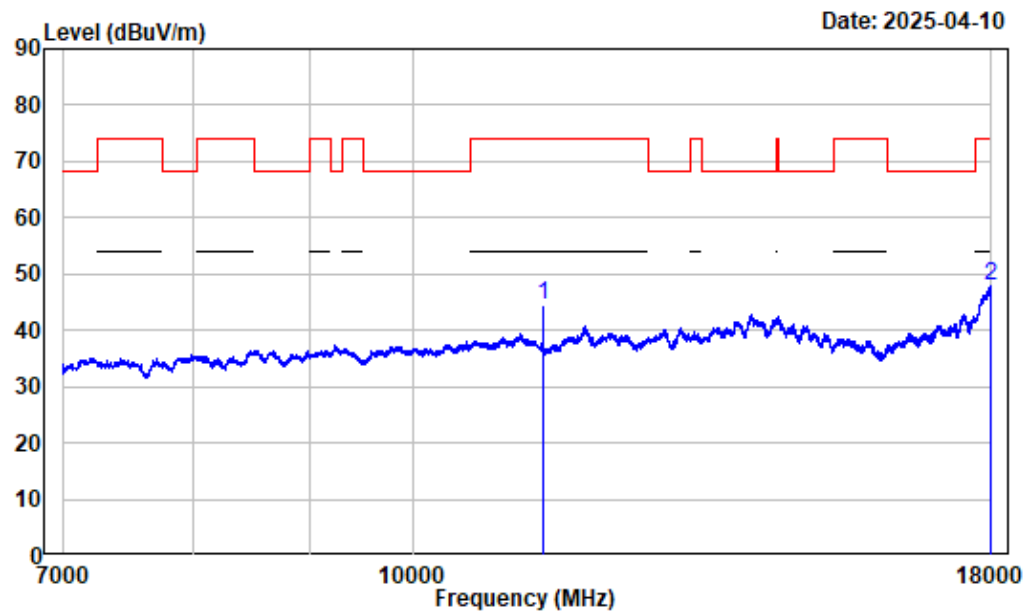
7-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

Freq	Factor	Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11420.000	3.37	53.19	56.56	74.00	-17.44	Peak
2 17994.500	13.17	47.66	60.83	74.00	-13.17	Peak

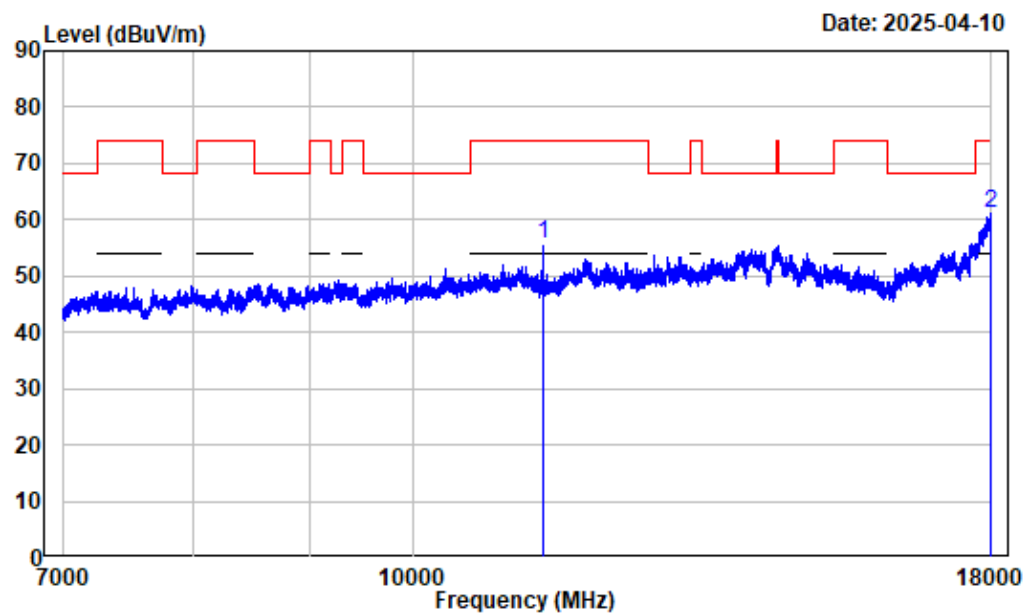
7-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Average reading: RBW:1MHz VBW:3kHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11420.000	3.37	41.01	44.38	54.00	-9.62	Average
2	17991.750	13.16	34.61	47.77	54.00	-6.23	Average

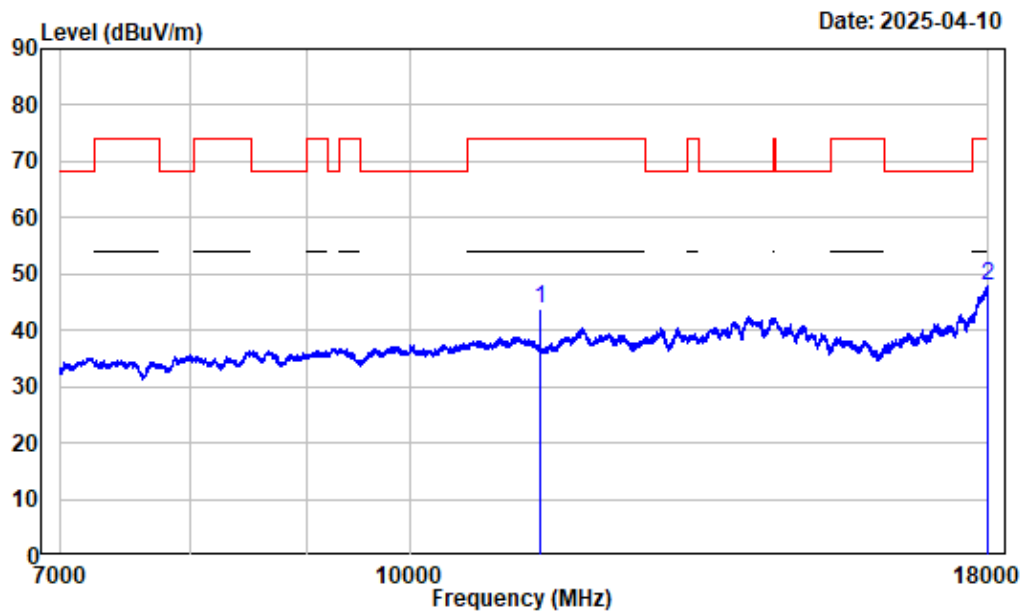
7-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11420.000	3.37	52.38	55.75	74.00	-18.25	Peak
2	17975.250	13.08	47.92	61.00	74.00	-13.00	Peak

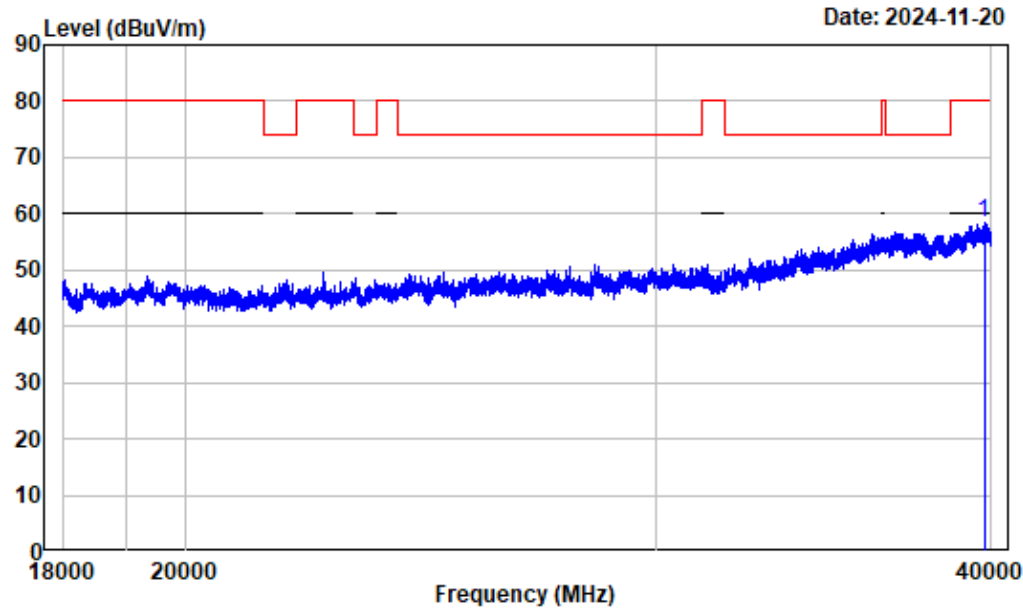
7-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Average reading: RBW:1MHz VBW:3kHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11420.000	3.37	40.45	43.82	54.00	-10.18	Average
2	17997.250	13.19	34.73	47.92	54.00	-6.08	Average

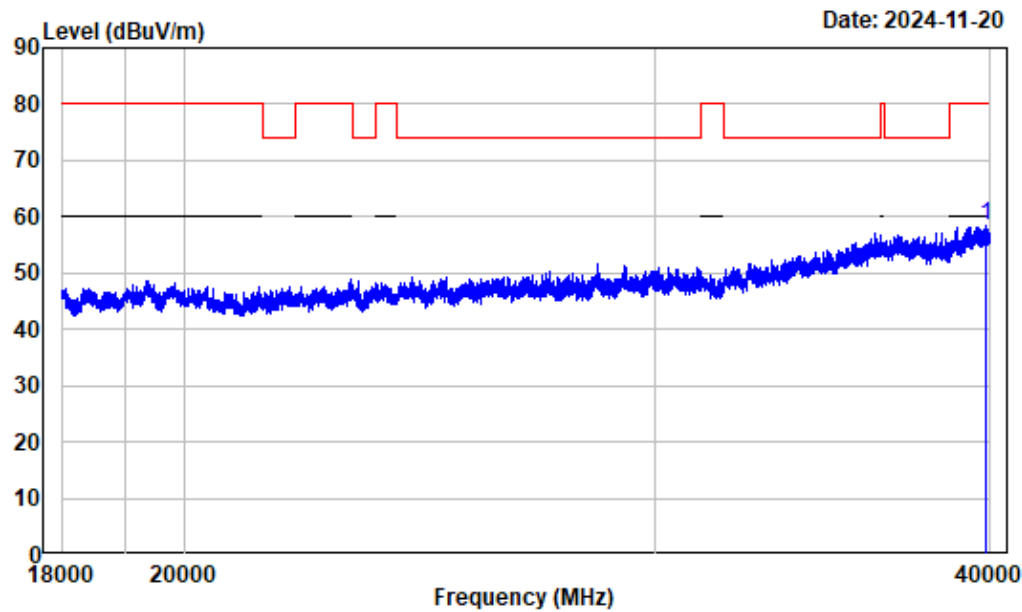
18-40GHz_Horizontal



Condition : Horizontal
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

Freq Factor		Read Level	Limit Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 39752.470	22.56	35.98	58.54	80.00	-21.46	Peak

18-40GHz_Vertical



Condition : Vertical
Project No. : 2401X96326E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_Band3_AX40_5710

Freq Factor		Read	Limit	Over	Remark	
MHz	dB/m	Level	Level	Line		
		dBuV	dBuV/m	dBuV/m	dB	
1	39876.230	22.54	35.72	58.26	80.00	-21.74 Peak

RF Conducted data

Please refer to Annex "Appendix A" for detail test data.

RF EXPOSURE EVALUATION

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

For worst case:

Mode	Frequency (MHz)	Antenna Gain [#]		Max Tune-up Power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	4.10	2.57	12.0	15.85	30	0.0036	1.0
2.4G Wi-Fi	2412-2462	7.78	6.00	29.0	794.33	30	0.4214	1.0
5G Wi-Fi	5150-5250	6.04	4.02	28.5	707.95	30	0.2516	1.0
	5250-5350	6.55	4.52	23.5	223.87	30	0.0895	1.0
	5470-5725	5.74	3.75	24.0	251.19	30	0.0833	1.0
	5725-5850	5.36	3.44	27.5	562.34	30	0.1710	1.0
6G Wi-Fi	5925-6425	7.38	5.47	16.5	44.67	30	0.0216	1.0
	6425-6525	6.79	4.78	17.0	50.12	30	0.0212	1.0
	6525-6875	7.68	5.86	17.0	50.12	30	0.0260	1.0
	6875-7125	8.24	6.67	16.0	39.81	30	0.0235	1.0

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) For the Wi-Fi mode, the antenna gain should be the directional gain.
- 3) The BLE, 2.4G Wi-Fi, 5G Wi-Fi and 6G Wi-Fi can simultaneous transmitting.

Simultaneous transmitting consideration (worst case):

The ratio= $MPE_{BLE}/limit + MPE_{2.4G\ Wi-Fi}/limit + MPE_{5G\ Wi-Fi}/limit + MPE_{6G\ Wi-Fi}/limit$

$$= 0.0036/1.0 + 0.4214/1.0 + 0.2516/1.0 + 0.0260/1.0 = 0.703 < 1.0$$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 30cm from nearby persons.

Result: Compliant.

EUT PHOTOGRAPHS

Please refer to the attachment 2401X96326E-RF External photo and 2401X96326E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401X96326E-RFC Test Setup photo.

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