中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **Iconnect**

Address: No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist.,Taipei City,Taiwan

FCC ID: **2AB877921**

Product Name: **11ax Module**

Standard(s): **47 CFR Part 15, Subpart E (15.407)**
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
ANSI C63.10-2020
KDB 987594 D02 U-NII 6 GHz EMC Measurement v03

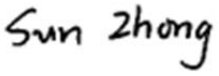
The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **2403S73093E-RF-00EA1**

Date Of Issue: **2025/8/12**

Reviewed By: **Calvin Chen**
Title: RF Engineer

Approved By: **Sun Zhong**
Title: Manager



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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, 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. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403S73093E-RF-00EA1	Original Report	2025/8/12

This is an application for adding a new equipment class to the existing FCC ID: 2AB877921.
The differences between the original device (FCC Grant Date: 07/18/2024) and the current version are as follows:

Based on the original hardware design, the 6GHz Wi-Fi function has been enabled via software, without any hardware modifications.

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	11ax Module
EUT Model:	AWM27921EU
Multiple Model:	AWM27921U, AWM27921BU, AMLGA7921, AMST7921, AMST7921U, AWSP7921U, AWM27921XX, AMLGA7921XX, AMST7921XX, AWSP7921XX (X: Any alphanumeric character or blank)
Equipment Class:	6XD (15E 6 GHz Low-power Indoor client)
Operation Frequency:	U-NII 5(5925-6425 MHz Band): 802.11ax he 20: 5955-6415 MHz 802.11ax he 40: 5965-6405 MHz 802.11ax he 80: 5985-6385 MHz U-NII 6(6425-6525 MHz Band): 802.11ax he 20: 6435-6515 MHz 802.11ax he 40: 6445-6525 MHz 802.11ax he 80: 6465-6545 MHz U-NII 7(6525-6875 MHz Band): 802.11ax he 20: 6535-6855 MHz 802.11ax he 40: 6565-6845 MHz 802.11ax he 80: 6625-6865 MHz U-NII 8(6875-7125 MHz Band): 802.11ax he 20: 6875-7115 MHz 802.11ax he 40: 6885-7085 MHz 802.11ax he 80: 6945-7025 MHz
Maximum Average Output Power (EIRP):	U-NII 5: 802.11ax he 20: 8.79 dBm 802.11ax he 40: 8.50 dBm 802.11ax he 80: 8.89 dBm U-NII 6: 802.11ax he 20: 8.26 dBm 802.11ax he 40: 8.35 dBm 802.11ax he 80: 8.82 dBm U-NII 7: 802.11ax he 20: 8.56 dBm 802.11ax he 40: 8.38 dBm 802.11ax he 80: 8.12 dBm U-NII 8: 802.11ax he 20: 8.89 dBm 802.11ax he 40: 8.74 dBm 802.11ax he 80: 8.65 dBm
Modulation Type:	802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Rated Input Voltage:	3.3V DC
Sample Number:	2XX1-1
EUT Received Date:	2025/1/24
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.1.2 Operation Frequency Detail

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

Only SISO operation is supported by the device across all operating modes.

The EUT can operate in 802.11ax he 20/ax he 40/ax he 80 modes.

The 802.11ax mode supports exclusively the full RU configuration.

For 5925-7125 MHz Band, 102 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	49	6195	97	6435	145	6675	193	6915
3	5965	51	6205	99	6445	147	6685	195	6925
5	5975	53	6215	101	6455	149	6695	197	6935
7	5985	55	6225	103	6465	151	6705	199	6945
9	5995	57	6235	105	6475	153	6715	201	6955
11	6005	59	6245	107	6485	155	6725	203	6965
13	6015	61	6255	109	6495	157	6735	205	6975
17	6035	65	6275	113	6515	161	6755	209	6995
19	6045	67	6285	115	6525	163	6765	211	7005
21	6055	69	6295	117	6535	165	6775	213	7015
23	6065	71	6305	119	6545	167	6785	215	7025
25	6075	73	6315	121	6555	169	6795	217	7035
27	6085	75	6325	123	6565	171	6805	219	7045
29	6095	77	6335	125	6575	173	6815	221	7055
33	6115	81	6355	129	6595	177	6835	225	7075
35	6125	83	6365	131	6605	179	6845	227	7085
37	6135	85	6375	133	6615	181	6855	229	7095
39	6145	87	6385	135	6625	183	6865	233	7115
41	6155	89	6395	137	6635	185	6875	/	/
43	6165	91	6405	139	6645	187	6885	/	/
45	6175	93	6415	141	6655	189	6895	/	/

Test channel Information

For 802.11ax he 20:

U-NII 5		U-NII 6		U-NII 7		U-NII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Per section 15.31(m), the below frequencies were performed the test as below:							
1	5955	97	6435	117	6535	185	6875
45	6175	105	6475	149	6695	189	6895
93	6415	113	6515	181	6855	209	6995
/	/	/	/	/	/	233	7115

For 802.11ax he 40:

U-NII 5		U-NII 6		U-NII 7		U-NII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Per section 15.31(m), the below frequencies were performed the test as below:							
3	5965	99	6445	123	6565	187	6885
43	6165	107	6485	147	6685	195	6925
91	6405	115	6525	179	6845	203	6965
/	/	/	/	/	/	227	7085

For 802.11ax he 80:

U-NII 5		U-NII 6		U-NII 7		U-NII 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Per section 15.31(m), the below frequencies were performed the test as below:							
7	5985	103	6465	135	6625	199	6945
39	6145	119	6545	151	6705	215	7025
87	6385	/	/	167	6785	/	/
/	/	/	/	183	6865	/	/

1.1.3 Antenna Information Detail▲

Antenna	Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
ANT1 (Chain 0)	Dipole	50	5925-7125	2.4
ANT2 (Chain 1)	Dipole	50	5925-7125	2.4

The method of §15.203 Compliance:

☐ Antenna was permanently attached to the unit.

☒ Antenna uses a unique type of connector to attach to the EUT.

☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information

Accessory Description	Manufacturer	Model
/	/	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	QATool_Dbg.exe

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:

U-NII 5 Band (5925-6425 MHz):

Test Modes	Test Channels	Test Frequency (MHz)	Data Rate	Power Level Setting	
				Chain 0	Chain 1
802.11ax he 20	Lowest	5955	MCS0	6	8
	Middle	6175	MCS0	9	8
	Highest	6415	MCS0	7	8
802.11ax he 40	Lowest	5965	MCS0	5	8
	Middle	6165	MCS0	8	9
	Highest	6405	MCS0	7	8
802.11ax he 80	Lowest	5985	MCS0	7	8
	Middle	6145	MCS0	9	9
	Highest	6385	MCS0	8	9

U-NII 6 Band (6425-6525 MHz):

Test Modes	Test Channels	Test Frequency (MHz)	Data Rate	Power Level Setting	
				Chain 0	Chain 1
802.11ax he 20	Lowest	6435	MCS0	6	5
	Middle	6475	MCS0	6	5
	Highest	6515	MCS0	6	5
802.11ax he 40	Lowest	6445	MCS0	6	7
	Highest	6485	MCS0	5	7
802.11ax he 80	Middle	6465	MCS0	7	7

Crossed U-NII 6 and U-NII 7:

Test Modes	Test Channels	Test Frequency (MHz)	Data Rate	Power Level Setting	
				Chain 0	Chain 1
802.11ax he 40	Additional	6525	MCS0	6	7
802.11ax he 80	Additional	6545	MCS0	7	7

U-NII 7 Band (6525-6875 MHz):

Test Modes	Test Channels	Test Frequency (MHz)	Data Rate	Power Level Setting	
				Chain 0	Chain 1
802.11ax he 20	Lowest	6535	MCS0	6	8
	Middle	6695	MCS0	10	11
	Highest	6855	MCS0	10	10
802.11ax he 40	Lowest	6565	MCS0	6	8
	Middle	6685	MCS0	9	10
	Highest	6845	MCS0	9	10
802.11ax he 80	Lowest	6625	MCS0	8	10
	Middle	6705	MCS0	10	11
	Highest	6785	MCS0	11	13

Crossed U-NII 7 and U-NII 8:					
Test Modes	**Test Channels**	**Test Frequency (MHz)**	**Data Rate**	**Power Level Setting**	
				Chain 0	**Chain 1**
802.11ax he 20	Additional	6875	MCS0	11	11
802.11ax he 40	Additional	6885	MCS0	11	10
802.11ax he 80	Additional	6865	MCS0	10	10
U-NII 8 Band (6875-7125 MHz):					
Test Modes	**Test Channels**	**Test Frequency (MHz)**	**Data Rate**	**Power Level Setting**	
				Chain 0	**Chain 1**
802.11ax he 20	Lowest	6895	MCS0	10	9
	Middle	6995	MCS0	8	9
	Highest	7115	MCS0	10	13
802.11ax he 40	Lowest	6925	MCS0	9	9
	Middle	6965	MCS0	8	9
	Highest	7085	MCS0	8	10
802.11ax he 80	Lowest	6945	MCS0	8	9
	Highest	7025	MCS0	10	9
Note: The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.					

1.2.2 Support Equipment List and Details

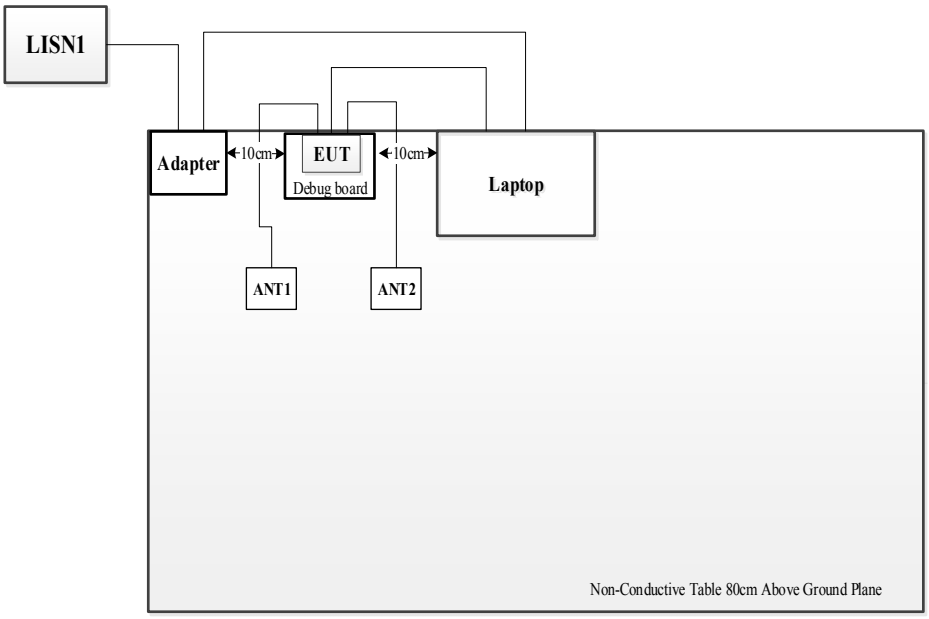
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK7
Lenovo	Adapter	ADLX65NLC3A	45NO495
Unknown	Debug Board	Unknown	Unknown
ALFA	ANT1	ARS-NT2	Unknown
ALFA	ANT2	ARS-NT2	Unknown

1.2.3 Support Cable List and Details

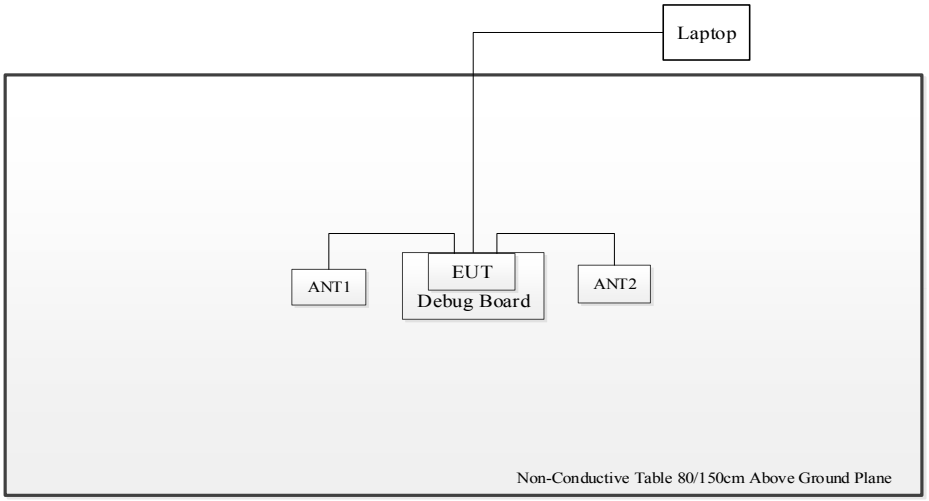
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.2	LISN	Adapter
Power Cable	No	Yes	1.2	Laptop	Adapter
RF Cable	No	No	0.2	EUT	ANT1
RF Cable	No	No	0.2	EUT	ANT2
USB Cabel	No	No	1	Laptop/ USB Extension Cable	Debug Board
USB Extension Cable	No	No	10	USB Cable	Laptop

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Radiated Spurious Emissions:



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9k~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.207(a); §15.407(b)(9)	AC Line Conducted Emissions	Compliant
§15.205 & §15.209 & §15.407(b)(6)	Undesirable Emission& Restricted Bands	Compliant
§15.407(b)(7)	In-band Emission	Compliant
§15.407(a)(11)	26 dB Emission Bandwidth & 99% Occupied bandwidth	Compliant
§15.407(a)(8)	Maximum E.I.R.P.	Compliant
§15.407(a)(8)	Maximum Power Spectral Density	Compliant
§15.407(d)(6)	Contention Based Protocol	Compliant
§15.203	Antenna Requirement	Compliant
§2.1091	Maximum Permissible exposure	Compliant

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.
Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~40GHz, the maximum output power mode and channel was tested.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.407 (b) (9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

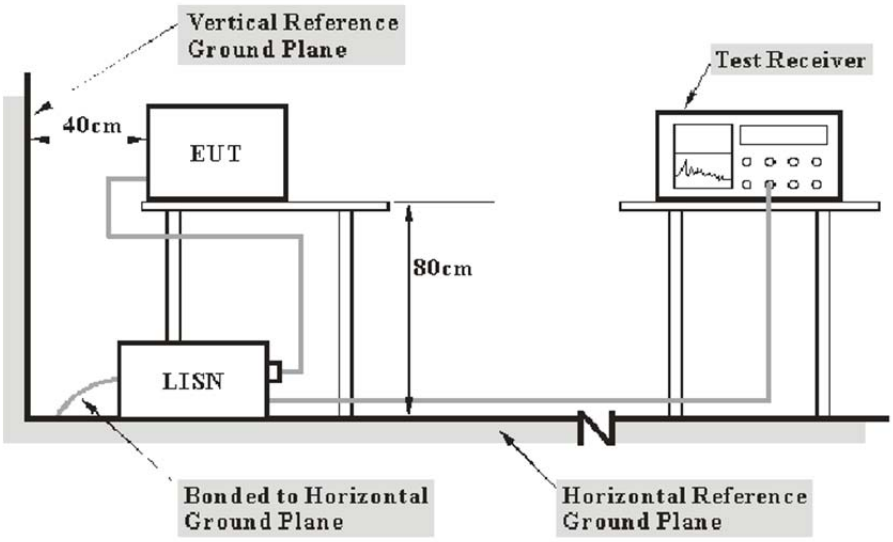
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 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 C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits

The spacing between the peripherals was 10 cm.

3.1.3 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

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

FCC §15.407 (b)

Undesirable emission limits. Except as shown in paragraph (b)(10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(6) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

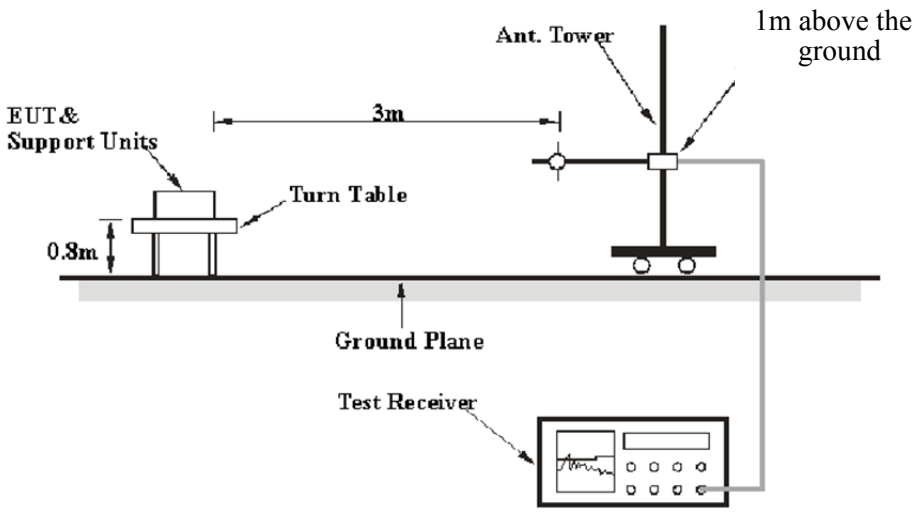
(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

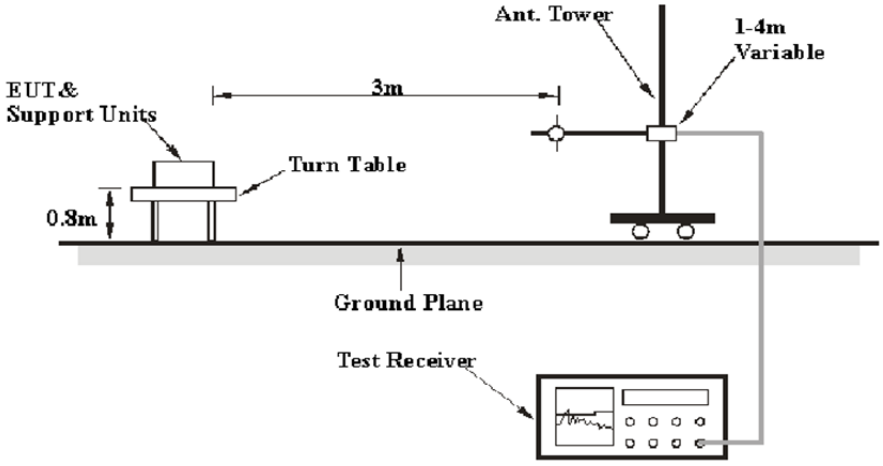
(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

3.2.2 EUT Setup

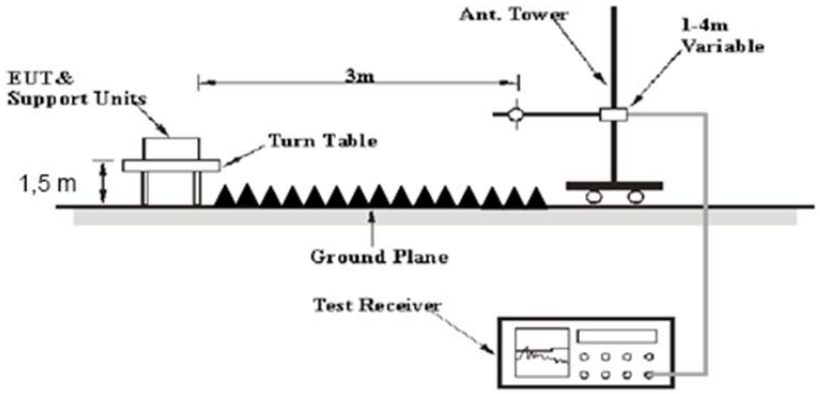
9kHz - 30MHz:



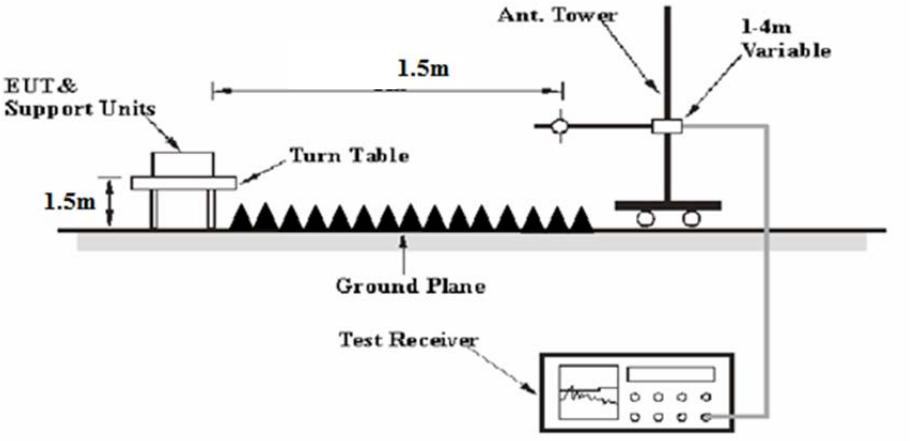
30MHz - 1GHz:



1GHz – 26.5GHz:



26.5GHz - 40 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was FCC 15.209, 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.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 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:

9kHz-1000MHz:

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

1GHz- 40GHz:

Pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	5 kHz	Peak
	<98%	1MHz	≥1/T, not less than 5 kHz	Peak

Note: T is minimum transmission duration

Final measurement for emission identified during the pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	≥1/T	Peak

Note: T is minimum transmission duration

3.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP [dBm] + 95.2, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

For 9kHz-26.5GHz:
Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 26.5GHz-40GHz
Factor = Antenna Factor + Cable Loss- Amplifier Gain -Distance extrapolation Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

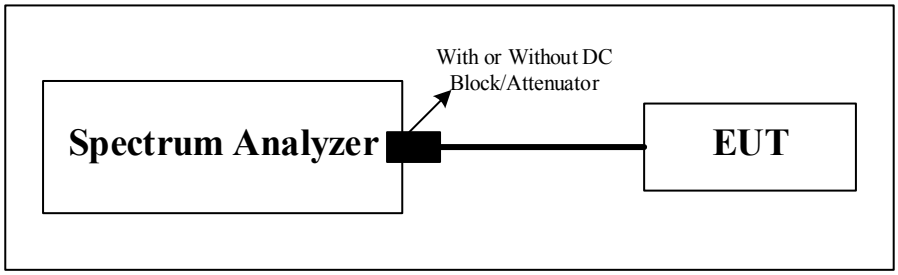
Margin = Limit – Result

3.3 Emission Bandwidth

3.3.1 Applicable Standard

According to FCC§15.407(a)(11), The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

3.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.3.3 Test Procedure

26dB Emission Bandwidth & 99% Occupied Bandwidth

Test Method: KDB789033 D02 Clause II.C

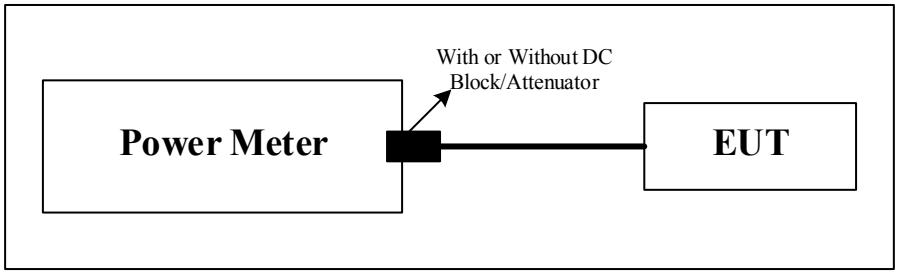
1. Emission Bandwidth (EBW)
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
f) For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥3* RBW.
g) Measure and record the results in the test report.

3.4 Maximum EIRP

3.4.1 Applicable Standard

According to the FCC §15.407(a)(8), For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.4.3 Test Procedure

Test Method: KDB789033 D02 Clause II.E.3 b)

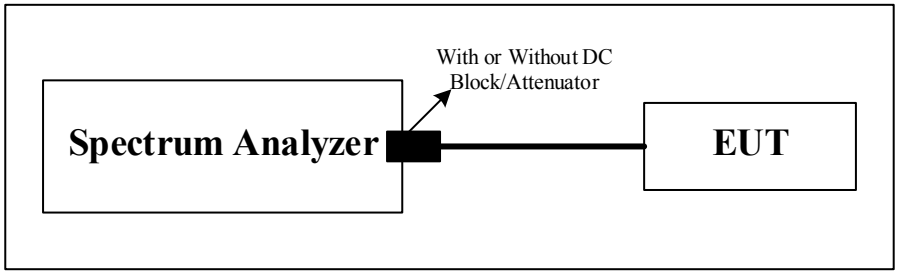
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.5 Maximum Power Spectral Density

3.5.1 Applicable Standard

According to the FCC §15.407(a)(8), For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.5.3 Test Procedure

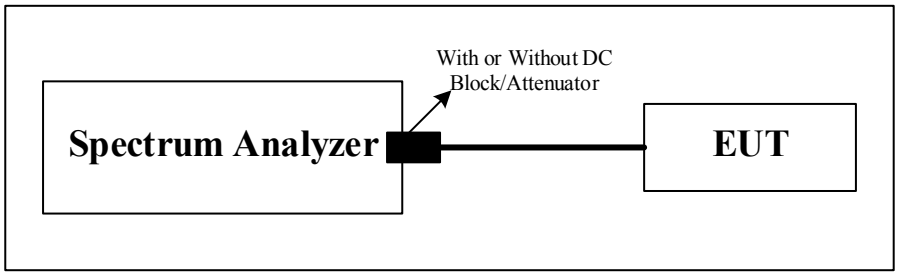
Test Method: KDB789033 D02 Clause II.F Method SA-1

3.6 IN-BAND EMISSIONS

3.6.1 Applicable Standard

According to FCC§15.407(b) (7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one-and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one-and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.6.3 Test Procedure

Test Method: KDB 987594 D02 Clause J

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.

2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2020.

3. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth.

4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.

5. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.
   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

6. Adjust the span to encompass the entire mask as necessary.

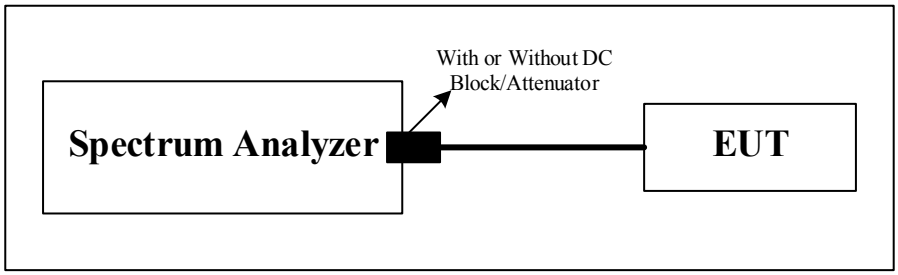
7. Clear trace.

8. Trace average at least 100 traces in power averaging (rms) mode.

9. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.7 Duty Cycle

3.7.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.7.2 Test Procedure

According to ANSI C63.10-2020 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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

3.8 Contention Based Protocol

3.8.1 Applicable Standard

According to FCC15.407(d) (6) All U-NII transmitters, except for standard power access points and fixed client devices, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

KDB 98754 D02 Clause I Contention Based Protocol

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnosticic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low-power indoor devices must vacate the channel (in which the incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low-power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz-wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, these devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine the number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$TwoBW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is close to the EUT channel's lower and upper edges.
$fourBW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of the EUT channel, and as closely as possible to the upper edge of the EUT channel.

Where:

BW_{EUT}: Transmission bandwidth of EUT signal
BW_{Inc}: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)
f_{c1}: The center frequency of EUT transmission
f_{c2}: Center frequency of the simulated incumbent signal

3.8.2 EUT Setup

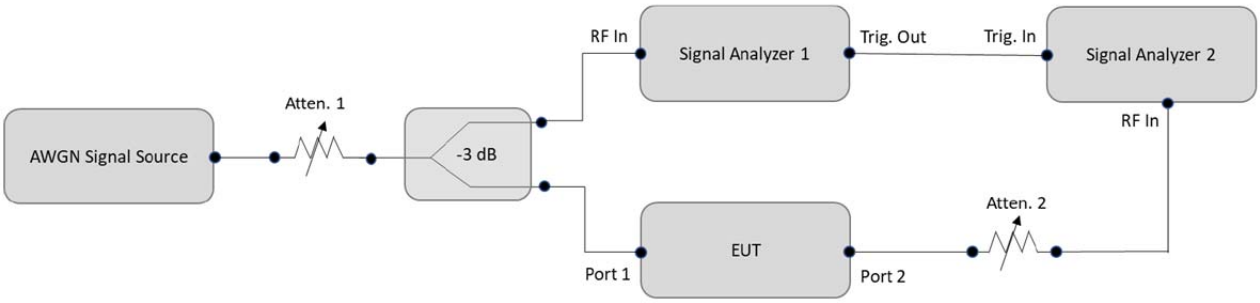


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.8.3 Test Procedure

Test Method: KDB 987594 D02 Clause I

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the EUT's operating parameters, including power level, operating frequency, modulation, and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The signal analyzer's span range shall be between two times and five times the EUT's OBW. Connect the EUT's output port to signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to prevent the signal analyzer two receiver overloading.
4. Monitor signal analyzer two and verify that the EUT operates and transmits with the parameters set in step 2.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to a shallow level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source via a 3-dB splitter to signal analyzer one and the EUT, as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, incrementally increase the AWGN signal power level until it stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least ten times to verify the EUT can detect an AWGN signal with a 90% (or better) level of certainty.
10. Refer to Table 1 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

3.9 Antenna Requirement

3.9.1 Applicable Standard

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or§15.236. 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.

3.9.2 Judgment

Result: Compliant. Please refer to the Antenna Information detail in Section 1.1.3.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	2XX1-1	Test Date:	2025/3/18
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101.8

Test Equipment List and Details:

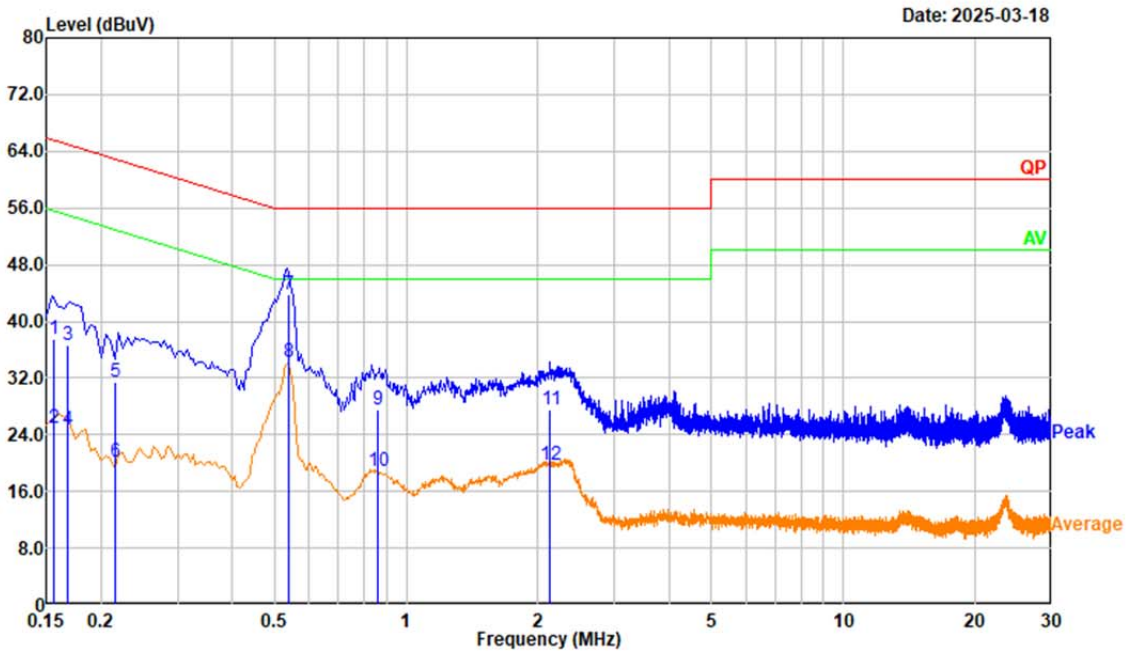
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2024/04/01	2025/03/31
R&S	EMI Test Receiver	ESR3	103104	2024/05/10	2025/05/09
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/01/06	2026/01/05
Audix	Test Software	E3	191218 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

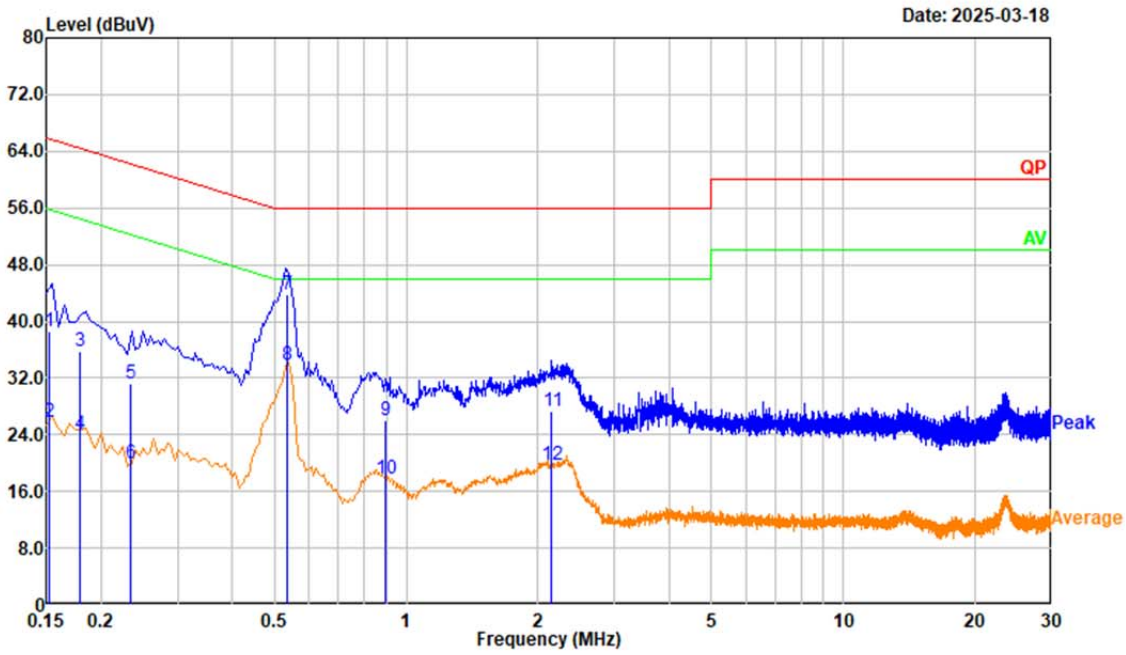
Note: The maximum output power mode and channel: 802.11ax20_RU_Full mode_Chain 1_7115MHz was tested.

Project No.: 2403S73093E-RF-A1
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: Line
Note: Transmitting



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.157	27.32	10.27	37.59	65.64	28.05	QP
2	0.157	14.65	10.27	24.92	55.64	30.72	Average
3	0.168	26.38	10.20	36.58	65.07	28.49	QP
4	0.168	14.41	10.20	24.61	55.07	30.46	Average
5	0.216	21.36	10.04	31.40	62.98	31.58	QP
6	0.216	10.09	10.04	20.13	52.98	32.85	Average
7	0.537	33.27	10.53	43.80	56.00	12.20	QP
8	0.537	23.67	10.53	34.20	46.00	11.80	Average
9	0.860	16.79	10.66	27.45	56.00	28.55	QP
10	0.860	8.16	10.66	18.82	46.00	27.18	Average
11	2.138	17.03	10.42	27.45	56.00	28.55	QP
12	2.138	9.35	10.42	19.77	46.00	26.23	Average

Project No.: 2403S73093E-RF-A1
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: neutral
Note: Transmitting



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.152	28.17	10.51	38.68	65.89	27.21	QP
2	0.152	15.20	10.51	25.71	55.89	30.18	Average
3	0.180	25.22	10.51	35.73	64.49	28.76	QP
4	0.180	13.48	10.51	23.99	54.49	30.50	Average
5	0.234	20.62	10.52	31.14	62.30	31.16	QP
6	0.234	9.32	10.52	19.84	52.30	32.46	Average
7	0.533	33.29	10.53	43.82	56.00	12.18	QP
8	0.533	23.33	10.53	33.86	46.00	12.14	Average
9	0.895	15.64	10.30	25.94	56.00	30.06	QP
10	0.895	7.41	10.30	17.71	46.00	28.29	Average
11	2.156	16.93	10.42	27.35	56.00	28.65	QP
12	2.156	9.34	10.42	19.76	46.00	26.24	Average

4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number:	2XX1-1	Test Date:	2025/3/7~2025/3/10
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Cody Dai	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.8~25	Relative Humidity: (%)	51~56	ATM Pressure: (kPa)	101.4~101.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/01	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/04	2026/12/03
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/01/10	2026/01/09
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/01/10	2026/01/09
R&S	EMI Test Receiver	ESR3	102724	2025/02/14	2026/02/13
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2024/12/03	2025/12/02
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2024/12/03	2025/12/02
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/06/11	2025/06/10
Sonoma	Amplifier	310N	186165	2024/12/03	2025/12/02
Audix	Test Software	E3	191218 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

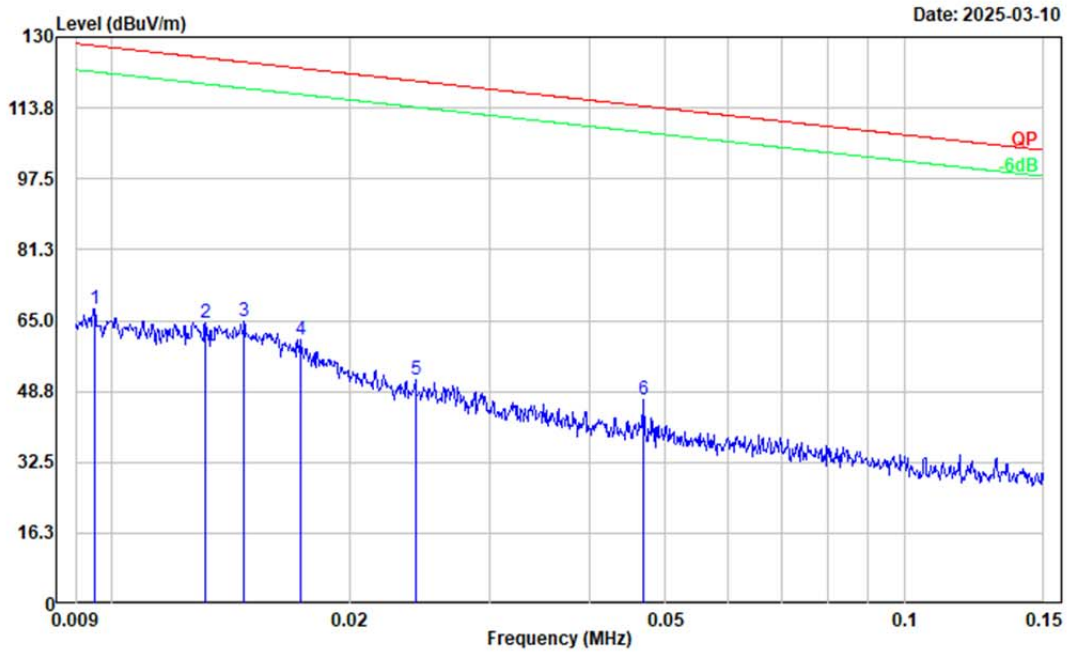
Test Data:
After pre-scan in the X, Y and Z axes of orientation, the worst case is referred to plots.

The maximum output power mode and channel: 802.11ax20_RU_Full mode_Chain 1_7115MHz was tested.

9kHz~30MHz:

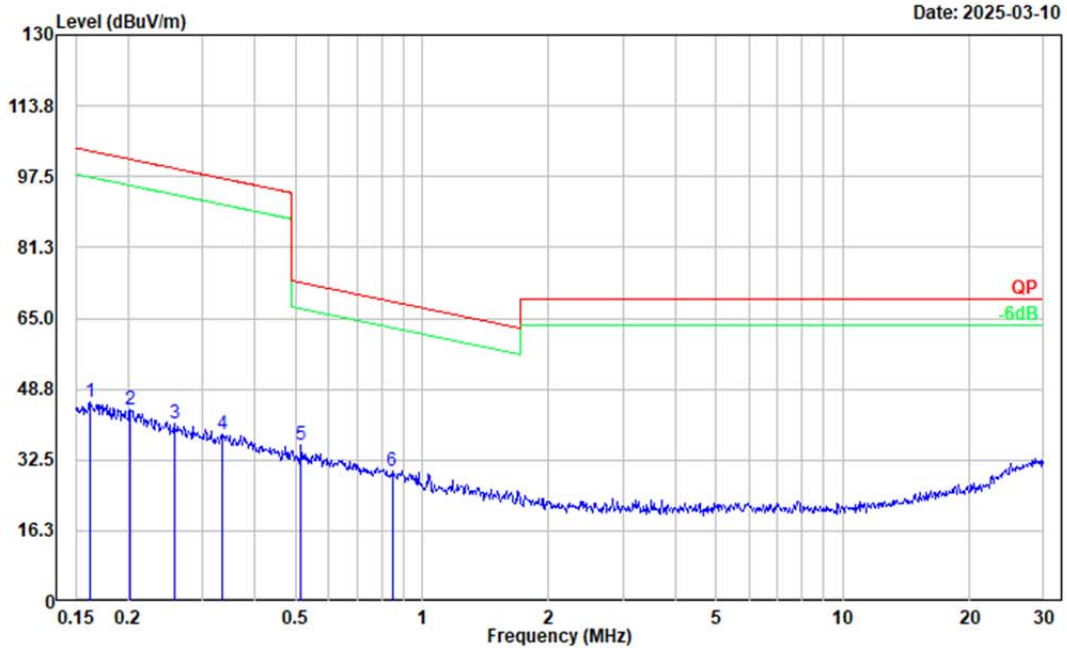
Ground-Parallel

```
Project No.: 2403S73093E-RF-A1
     Tester: Cody Dai
  Condition: RBW:0.3  kHz  VBW:1    kHz  SWT:0.1  sec
Polarization: Ground-parallel
       Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.009	32.56	35.09	67.65	128.06	60.41	Peak
2	0.013	31.62	32.91	64.53	125.25	60.72	Peak
3	0.015	32.73	32.14	64.87	124.27	59.40	Peak
4	0.017	29.86	30.87	60.73	122.85	62.12	Peak
5	0.024	23.80	27.50	51.30	119.94	68.64	Peak
6	0.047	25.75	21.08	46.83	114.18	67.35	Peak

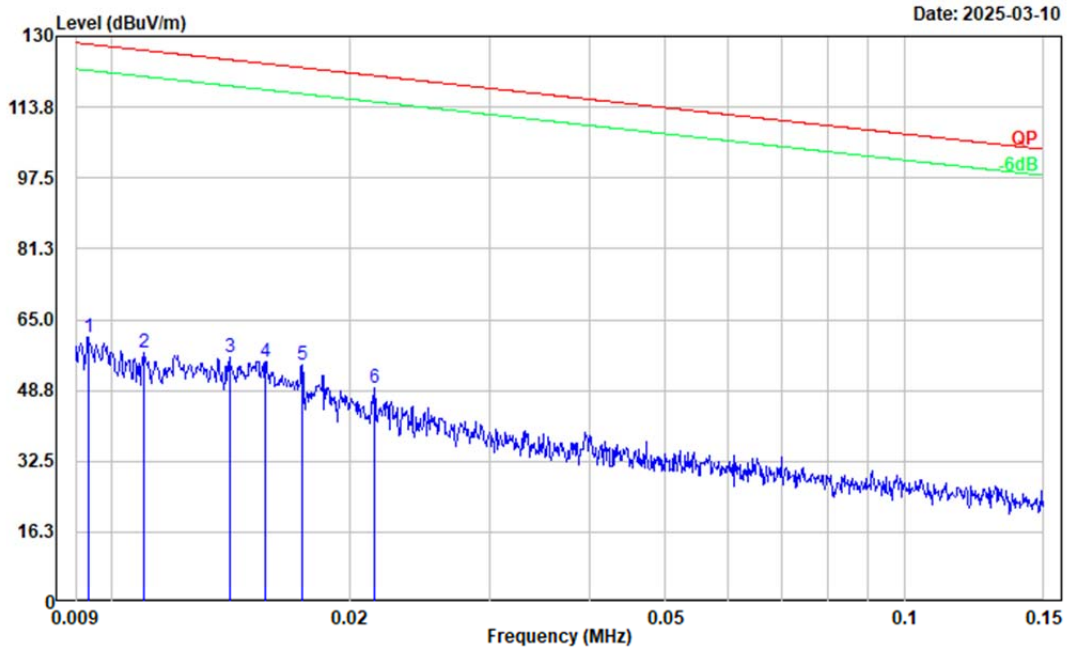
Project No.: 2403S73093E-RF-A1
Tester: Cody Dai
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.162	34.11	11.75	45.86	103.39	57.53	Peak
2	0.202	33.95	9.92	43.87	101.51	57.64	Peak
3	0.258	33.60	7.34	40.94	99.39	58.45	Peak
4	0.336	33.65	4.59	38.24	97.09	58.85	Peak
5	0.516	35.15	0.79	35.94	73.35	37.41	Peak
6	0.848	32.96	-2.91	30.05	68.93	38.88	Peak

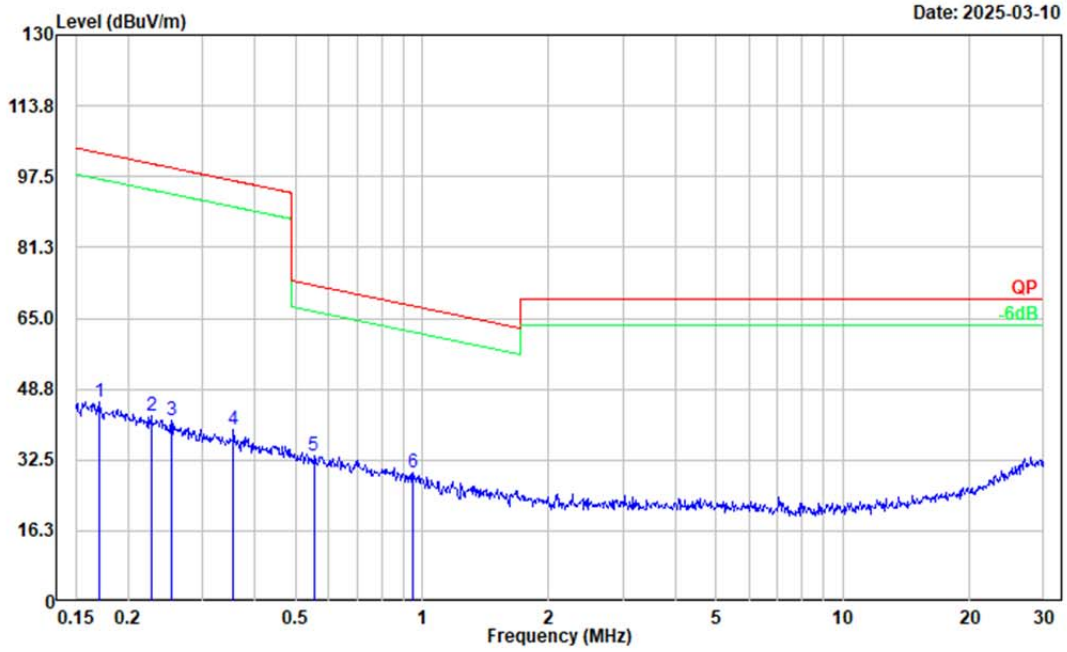
Parallel

```
Project No.: 2403S73093E-RF-A1
     Tester: Cody Dai
  Condition: RBW:0.1  kHz  VBW:1    kHz  SWT:0.1  sec
Polarization: Parallel
       Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.009	25.78	35.29	61.07	128.20	67.13	Peak
2	0.011	23.38	33.97	57.35	126.81	69.46	Peak
3	0.014	24.00	32.44	56.44	124.63	68.19	Peak
4	0.016	23.63	31.69	55.32	123.73	68.41	Peak
5	0.017	23.72	30.82	54.54	122.80	68.26	Peak
6	0.021	20.43	28.85	49.28	120.99	71.71	Peak

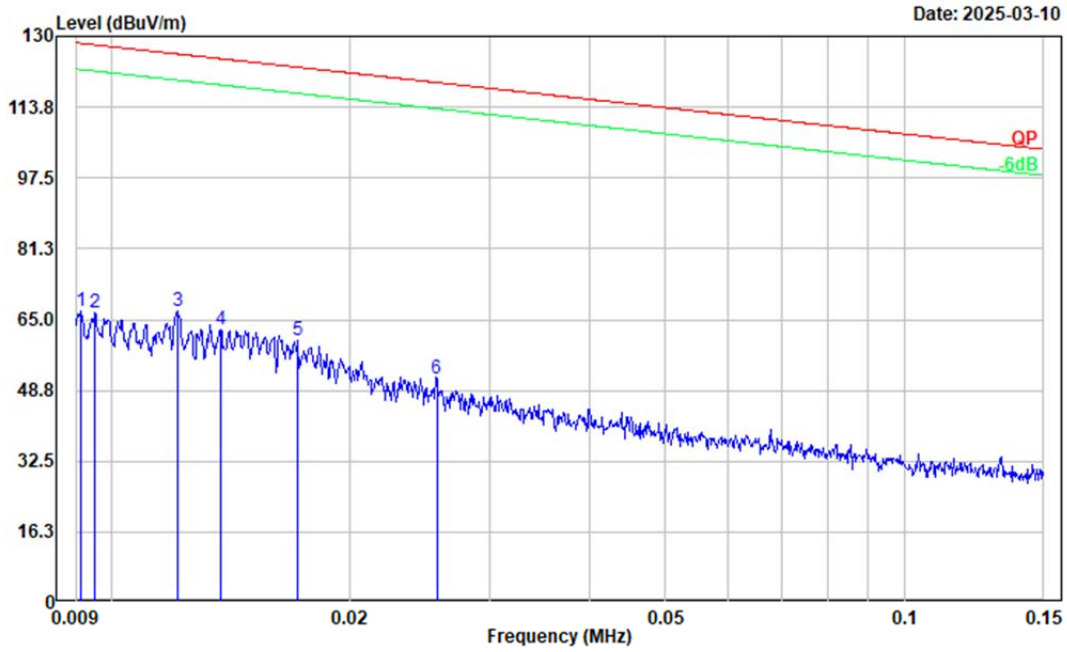
Project No.: 2403S73093E-RF-A1
Tester: Cody Dai
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.170	34.36	11.38	45.74	102.98	57.24	Peak
2	0.227	33.79	8.77	42.56	100.49	57.93	Peak
3	0.253	34.22	7.52	41.74	99.53	57.79	Peak
4	0.356	35.31	4.14	39.45	96.58	57.13	Peak
5	0.552	33.07	0.37	33.44	72.74	39.30	Peak
6	0.948	33.48	-3.76	29.72	67.95	38.23	Peak

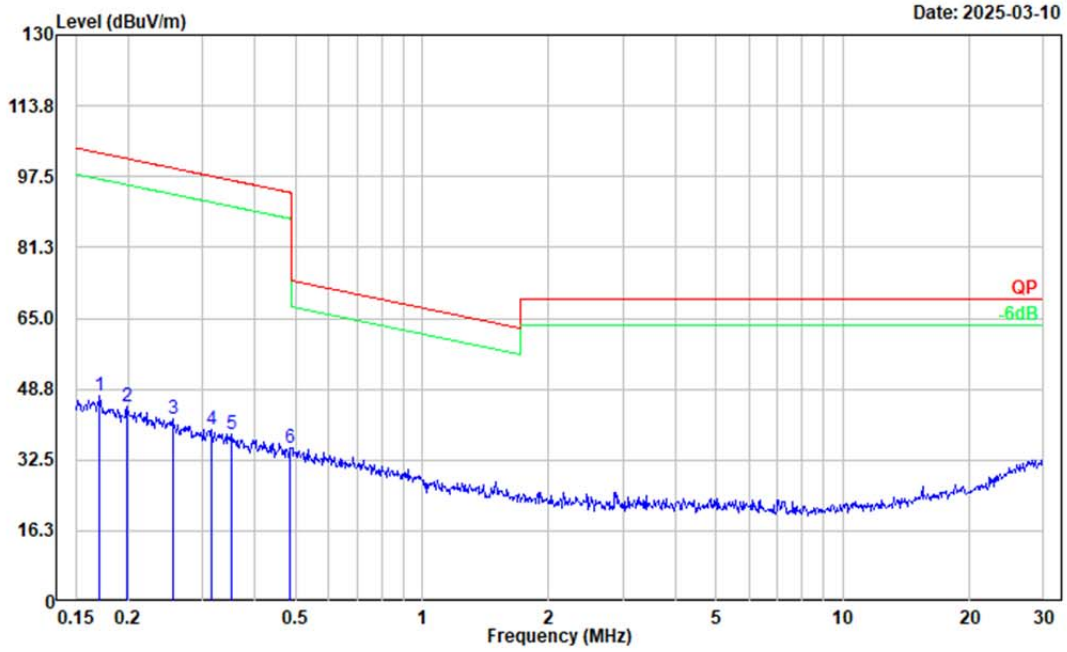
Perpendicular

```
Project No.: 2403S73093E-RF-A1
     Tester: Cody Dai
  Condition: RBW:0.3  kHz  VBW:1    kHz  SWT:0.1  sec
Polarization: Perpendicular
       Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.009	31.40	35.56	66.96	128.40	61.44	Peak
2	0.010	31.61	35.06	66.67	128.03	61.36	Peak
3	0.012	33.65	33.41	67.06	125.95	58.89	Peak
4	0.014	30.23	32.61	62.84	124.85	62.01	Peak
5	0.017	29.17	30.94	60.11	122.92	62.81	Peak
6	0.026	24.83	26.75	51.58	119.40	67.82	Peak

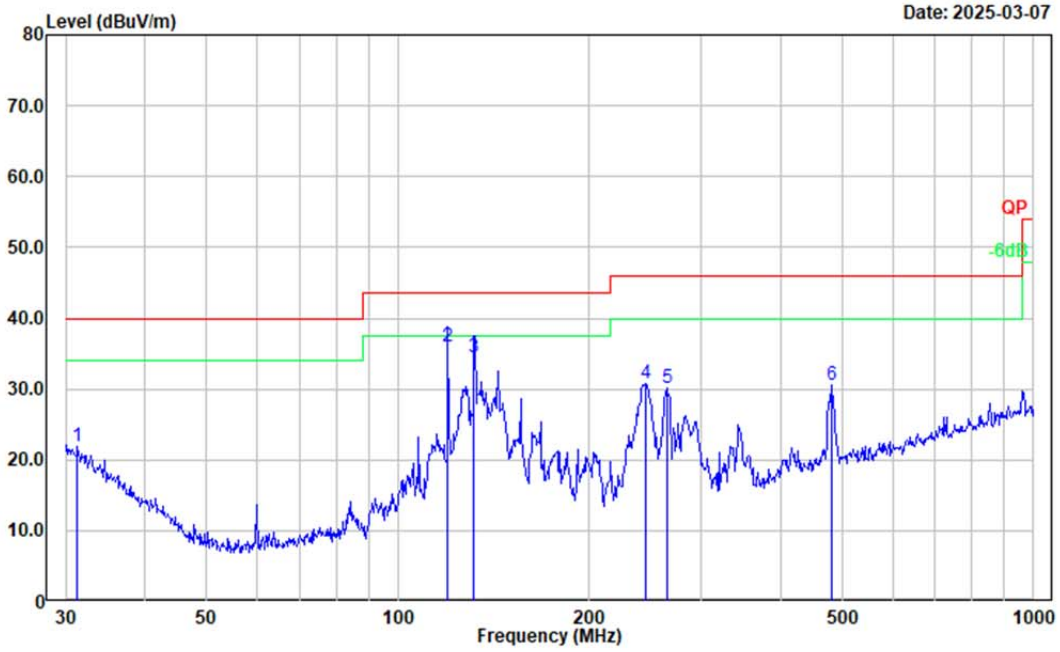
Project No.: 2403S73093E-RF-A1
Tester: Cody Dai
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	0.171	35.71	11.34	47.05	102.93	55.88	Peak
2	0.199	34.53	10.06	44.59	101.64	57.05	Peak
3	0.255	34.64	7.46	42.10	99.48	57.38	Peak
4	0.315	34.29	5.04	39.33	97.64	58.31	Peak
5	0.352	34.15	4.23	38.38	96.67	58.29	Peak
6	0.486	34.12	1.27	35.39	93.87	58.48	Peak

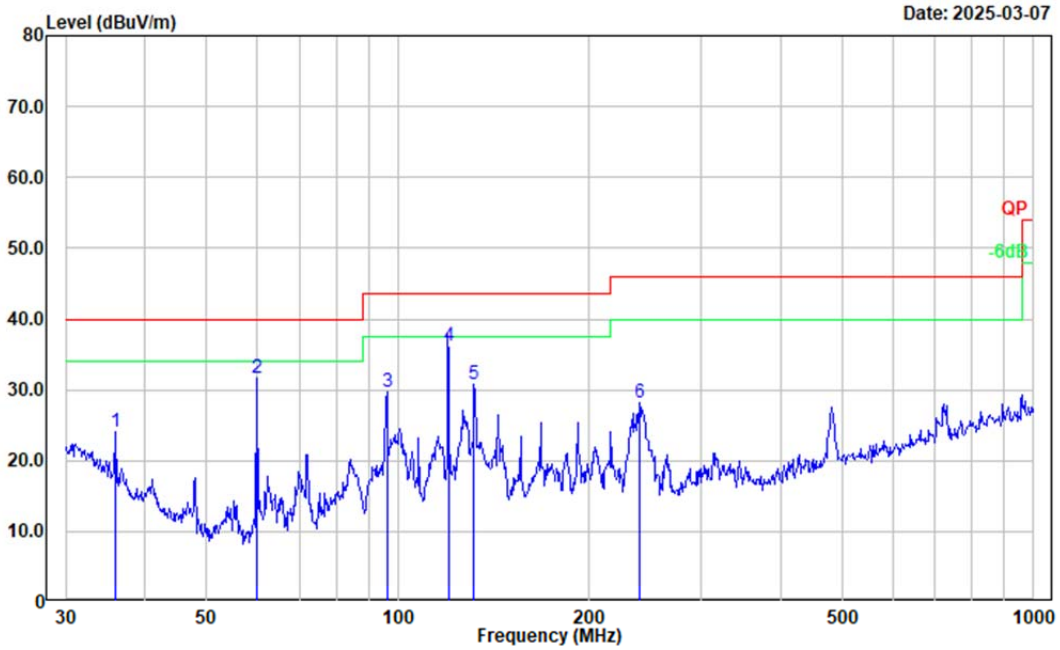
30MHz – 1GHz

```
Project No.: 2403S73093E-RF-A1
     Tester: Cody Dai
  Condition: RBW:100  kHz  VBW:300  kHz  SWT:0.1  sec
Polarization: horizontal
       Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	31.289	26.62	-4.68	21.94	40.00	18.06	Peak
2	119.856	47.23	-11.25	35.98	43.50	7.52	QP
3	131.758	45.84	-11.36	34.48	43.50	9.02	QP
4	245.951	43.73	-12.91	30.82	46.00	15.18	Peak
5	264.746	41.26	-11.17	30.09	46.00	15.91	Peak
6	480.528	36.87	-6.28	30.59	46.00	15.41	Peak

Project No.: 2403S73093E-RF-A1
Tester: Cody Dai
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting 802.11ax20_RU_Full mode_Chain 1_7115MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
1	35.875	32.09	-8.07	24.02	40.00	15.98	Peak
2	59.859	49.27	-17.69	31.58	40.00	8.42	Peak
3	96.099	45.42	-15.72	29.70	43.50	13.80	Peak
4	120.009	47.52	-11.22	36.30	43.50	7.20	QP
5	131.758	42.23	-11.36	30.87	43.50	12.63	Peak
6	239.987	41.15	-12.87	28.28	46.00	17.72	Peak

4.2.2 1GHz – 40 GHz

Sample Number:	2XX1-1	Test Date:	2025/3/27-2025/3/31
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	23.6-25.6	Relative Humidity: (%)	48-52	ATM Pressure: (kPa)	100.8-101.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/06	2026/12/05
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/01/10	2026/01/09
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/01/10	2026/01/09
A.H	Preamplifier	PAM-0118P	628	2025/02/21	2026/02/20
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2024/02/04	2027/02/03
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2024/02/04	2027/02/03
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/01/06	2026/01/05
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/01/06	2026/01/05
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2024/08/05	2025/08/04
JD	Filter Switch Unit	DT7220FSU	DQ77928	2024/08/05	2025/08/04

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

ANT1(Chain 0):

5925-6425MHz:B5

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5955 MHz							
11910.000	45.51	PK	H	4.94	50.45	74.00	23.55
11910.000	33.63	AV	H	4.94	38.57	54.00	15.43
11910.000	46.18	PK	V	4.94	51.12	74.00	22.88
11910.000	34.05	AV	V	4.94	38.99	54.00	15.01
Middle Channel: 6175 MHz							
12350.000	47.27	PK	H	5.40	52.67	74.00	21.33
12350.000	35.16	AV	H	5.40	40.56	54.00	13.44
12350.000	46.89	PK	V	5.40	52.29	74.00	21.71
12350.000	34.36	AV	V	5.40	39.76	54.00	14.24
High Channel: 6415 MHz							
12830.000	45.86	PK	H	5.28	51.14	88.20	37.06
12830.000	33.74	AV	H	5.28	39.02	68.20	29.18
12830.000	46.56	PK	V	5.28	51.84	88.20	36.36
12830.000	34.74	AV	V	5.28	40.02	68.20	28.18

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5965 MHz							
11970.000	46.12	PK	H	5.18	51.30	74.00	22.70
11970.000	34.69	AV	H	5.18	39.87	54.00	14.13
11970.000	45.84	PK	V	5.18	51.02	74.00	22.98
11970.000	33.41	AV	V	5.18	38.59	54.00	15.41
Middle Channel: 6165 MHz							
12330.000	46.69	PK	H	5.47	52.16	74.00	21.84
12330.000	34.50	AV	H	5.47	39.97	54.00	14.03
12330.000	45.47	PK	V	5.47	50.94	74.00	23.06
12330.000	33.62	AV	V	5.47	39.09	54.00	14.91
High Channel: 6405 MHz							
12810.000	46.17	PK	H	5.21	51.38	88.20	36.82
12810.000	34.25	AV	H	5.21	39.46	68.20	28.74
12810.000	46.16	PK	V	5.21	51.37	88.20	36.83
12810.000	34.54	AV	V	5.21	39.75	68.20	28.45

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5985 MHz							
11970.000	46.50	PK	H	5.18	51.68	74.00	22.32
11970.000	34.43	AV	H	5.18	39.61	54.00	14.39
11970.000	46.18	PK	V	5.18	51.36	74.00	22.64
11970.000	34.02	AV	V	5.18	39.20	54.00	14.80
Middle Channel: 6145 MHz							
12290.000	45.98	PK	H	5.56	51.54	74.00	22.46
12290.000	33.88	AV	H	5.56	39.44	54.00	14.56
12290.000	46.84	PK	V	5.56	52.40	74.00	21.60
12290.000	34.03	AV	V	5.56	39.59	54.00	14.41
High Channel: 6385 MHz							
12770.000	46.16	PK	H	5.14	51.30	88.20	36.90
12770.000	34.63	AV	H	5.14	39.77	68.20	28.43
12770.000	46.74	PK	V	5.14	51.88	88.20	36.32
12770.000	34.68	AV	V	5.14	39.82	68.20	28.38

6425-6525MHz:B6

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6435 MHz							
12870.000	46.35	PK	H	5.42	51.77	88.20	36.43
12870.000	34.21	AV	H	5.42	39.63	68.20	28.57
12870.000	46.50	PK	V	5.42	51.92	88.20	36.28
12870.000	34.29	AV	V	5.42	39.71	68.20	28.49
Middle Channel: 6475 MHz							
12950.000	45.87	PK	H	5.72	51.59	88.20	36.61
12950.000	33.20	AV	H	5.72	38.92	68.20	29.28
12950.000	46.02	PK	V	5.72	51.74	88.20	36.46
12950.000	33.85	AV	V	5.72	39.57	68.20	28.63
High Channel: 6515 MHz							
13030.000	46.41	PK	H	5.88	52.29	88.20	35.91
13030.000	34.69	AV	H	5.88	40.57	68.20	27.63
13030.000	47.02	PK	V	5.88	52.90	88.20	35.30
13030.000	35.12	AV	V	5.88	41.00	68.20	27.20

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6445 MHz							
12890.000	46.96	PK	H	5.49	52.45	88.20	35.75
12890.000	34.57	AV	H	5.49	40.06	68.20	28.14
12890.000	47.24	PK	V	5.49	52.73	88.20	35.47
12890.000	35.29	AV	V	5.49	40.78	68.20	27.42
High Channel: 6485 MHz							
12970.000	46.21	PK	H	5.80	52.01	88.20	36.19
12970.000	34.12	AV	H	5.80	39.92	68.20	28.28
12970.000	46.57	PK	V	5.80	52.37	88.20	35.83
12970.000	34.20	AV	V	5.80	40.00	68.20	28.20

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 6465 MHz							
12930.000	45.91	PK	H	5.64	51.55	88.20	36.65
12930.000	33.25	AV	H	5.64	38.89	68.20	29.31
12930.000	45.78	PK	V	5.64	51.42	88.20	36.78
12930.000	33.47	AV	V	5.64	39.11	68.20	29.09

Crossed U-NII 6 and U-NII 7

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional 6525 MHz							
13050.000	45.90	PK	H	5.86	51.76	88.20	36.44
13050.000	33.86	AV	H	5.86	39.72	68.20	28.48
13050.000	45.85	PK	V	5.86	51.71	88.20	36.49
13050.000	33.40	AV	V	5.86	39.26	68.20	28.94

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional 6545 MHz							
13090.000	46.25	PK	H	5.81	52.06	88.20	36.14
13090.000	34.58	AV	H	5.81	40.39	68.20	27.81
13090.000	46.33	PK	V	5.81	52.14	88.20	36.06
13090.000	34.45	AV	V	5.81	40.26	68.20	27.94

6525-6875MHz:B7

802.11 ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6535 MHz							
13070.000	46.25	PK	H	5.83	52.08	88.20	36.12
13070.000	34.41	AV	H	5.83	40.24	68.20	27.96
13070.000	47.63	PK	V	5.83	53.46	88.20	34.74
13070.000	35.45	AV	V	5.83	41.28	68.20	26.92
Middle Channel: 6695 MHz							
13390.000	46.34	PK	H	6.55	52.89	74.00	21.11
13390.000	34.21	AV	H	6.55	40.76	54.00	13.24
13390.000	46.40	PK	V	6.55	52.95	74.00	21.05
13390.000	34.25	AV	V	6.55	40.80	54.00	13.20
High Channel: 6855 MHz							
13710.000	46.56	PK	H	6.11	52.67	88.20	35.53
13710.000	34.25	AV	H	6.11	40.36	68.20	27.84
13710.000	47.44	PK	V	6.11	53.55	88.20	34.65
13710.000	35.63	AV	V	6.11	41.74	68.20	26.46

802.11 ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6565 MHz							
13130.000	46.52	PK	H	6.00	52.52	88.20	35.68
13130.000	34.30	AV	H	6.00	40.30	68.20	27.90
13130.000	46.39	PK	V	6.00	52.39	88.20	35.81
13130.000	34.29	AV	V	6.00	40.29	68.20	27.91
Middle Channel: 6685 MHz							
13370.000	47.25	PK	H	6.60	53.85	74.00	20.15
13370.000	35.48	AV	H	6.60	42.08	54.00	11.92
13370.000	47.36	PK	V	6.60	53.96	74.00	20.04
13370.000	35.10	AV	V	6.60	41.70	54.00	12.30
High Channel: 6845 MHz							
13690.000	45.98	PK	H	6.09	52.07	88.20	36.13
13690.000	33.41	AV	H	6.09	39.50	68.20	28.70
13690.000	46.69	PK	V	6.09	52.78	88.20	35.42
13690.000	34.20	AV	V	6.09	40.29	68.20	27.91

802.11 ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6625 MHz							
13250.000	46.54	PK	H	6.61	53.15	74.00	20.85
13250.000	34.48	AV	H	6.61	41.09	54.00	12.91
13250.000	46.81	PK	V	6.61	53.42	74.00	20.58
13250.000	34.68	AV	V	6.61	41.29	54.00	12.71
Middle Channel: 6705 MHz							
13410.000	46.69	PK	H	6.49	53.18	88.20	35.02
13410.000	34.56	AV	H	6.49	41.05	68.20	27.15
13410.000	47.10	PK	V	6.49	53.59	88.20	34.61
13410.000	35.22	AV	V	6.49	41.71	68.20	26.49
High Channel: 6785 MHz							
13570.000	47.02	PK	H	6.16	53.18	88.20	35.02
13570.000	35.07	AV	H	6.16	41.23	68.20	26.97
13570.000	46.69	PK	V	6.16	52.85	88.20	35.35
13570.000	34.25	AV	V	6.16	40.41	68.20	27.79

Crossed U-NII 7 and U-NII 8

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional 6875 MHz							
13750.000	47.48	PK	H	6.22	53.70	88.20	34.50
13750.000	35.27	AV	H	6.22	41.49	68.20	26.71
13750.000	46.50	PK	V	6.22	52.72	88.20	35.48
13750.000	34.53	AV	V	6.22	40.75	68.20	27.45

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional 6885 MHz							
13770.000	46.67	PK	H	6.28	52.95	88.20	35.25
13770.000	34.57	AV	H	6.28	40.85	68.20	27.35
13770.000	46.51	PK	V	6.28	52.79	88.20	35.41
13770.000	34.59	AV	V	6.28	40.87	68.20	27.33

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional 6865 MHz							
13730.000	46.50	PK	H	6.17	52.67	88.20	35.53
13730.000	34.39	AV	H	6.17	40.56	68.20	27.64
13730.000	47.21	PK	V	6.17	53.38	88.20	34.82
13730.000	35.01	AV	V	6.17	41.18	68.20	27.02

6875-7125MHz:B8

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6895 MHz							
13790.000	46.02	PK	H	6.34	52.36	88.20	35.84
13790.000	33.17	AV	H	6.34	39.51	68.20	28.69
13790.000	45.67	PK	V	6.34	52.01	88.20	36.19
13790.000	32.58	AV	V	6.34	38.92	68.20	29.28
Middle Channel: 6995 MHz							
13990.000	45.77	PK	H	7.26	53.03	88.20	35.17
13990.000	32.63	AV	H	7.26	39.89	68.20	28.31
13990.000	46.09	PK	V	7.26	53.35	88.20	34.85
13990.000	32.95	AV	V	7.26	40.21	68.20	27.99
High Channel: 7115 MHz							
14230.000	45.67	PK	H	7.70	53.37	88.20	34.83
14230.000	32.69	AV	H	7.70	40.39	68.20	27.81
14230.000	45.82	PK	V	7.70	53.52	88.20	34.68
14230.000	33.47	AV	V	7.70	41.17	68.20	27.03

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6925 MHz							
13850.000	44.69	PK	H	6.68	51.37	88.20	36.83
13850.000	32.07	AV	H	6.68	38.75	68.20	29.45
13850.000	45.76	PK	V	6.68	52.44	88.20	35.76
13850.000	33.45	AV	V	6.68	40.13	68.20	28.07
Middle Channel: 6965 MHz							
13930.000	45.29	PK	H	7.07	52.36	88.20	35.84
13930.000	32.75	AV	H	7.07	39.82	68.20	28.38
13930.000	46.11	PK	V	7.07	53.18	88.20	35.02
13930.000	32.89	AV	V	7.07	39.96	68.20	28.24
High Channel: 7085 MHz							
14170.000	45.37	PK	H	7.82	53.19	88.20	35.01
14170.000	32.69	AV	H	7.82	40.51	68.20	27.69
14170.000	46.18	PK	V	7.82	54.00	88.20	34.20
14170.000	33.26	AV	V	7.82	41.08	68.20	27.12

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6945 MHz							
13890.000	46.38	PK	H	6.92	53.30	88.20	34.90
13890.000	32.67	AV	H	6.92	39.59	68.20	28.61
13890.000	45.69	PK	V	6.92	52.61	88.20	35.59
13890.000	32.58	AV	V	6.92	39.50	68.20	28.70
High Channel: 7025 MHz							
14050.000	45.91	PK	H	7.50	53.41	88.20	34.79
14050.000	32.82	AV	H	7.50	40.32	68.20	27.88
14050.000	46.07	PK	V	7.50	53.57	88.20	34.63
14050.000	32.99	AV	V	7.50	40.49	68.20	27.71

ANT2(Chain 1):

5925-6425MHz: B5

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5955 MHz							
11910.000	46.35	PK	H	4.94	51.29	74.00	22.71
11910.000	33.08	AV	H	4.94	38.02	54.00	15.98
11910.000	45.63	PK	V	4.94	50.57	74.00	23.43
11910.000	32.71	AV	V	4.94	37.65	54.00	16.35
Middle Channel: 6175 MHz							
12350.000	45.35	PK	H	5.40	50.75	74.00	23.25
12350.000	32.64	AV	H	5.40	38.04	54.00	15.96
12350.000	46.59	PK	V	5.40	51.99	74.00	22.01
12350.000	32.27	AV	V	5.40	37.67	54.00	16.33
High Channel: 6415 MHz							
12830.000	46.75	PK	H	5.28	52.03	88.20	36.17
12830.000	33.65	AV	H	5.28	38.93	68.20	29.27
12830.000	45.76	PK	V	5.28	51.04	88.20	37.16
12830.000	32.88	AV	V	5.28	38.16	68.20	30.04

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5965	MHz		
11970.000	45.45	PK	H	5.18	50.63	74.00	23.37
11970.000	32.30	AV	H	5.18	37.48	54.00	16.52
11970.000	45.94	PK	V	5.18	51.12	74.00	22.88
11970.000	32.89	AV	V	5.18	38.07	54.00	15.93
Middle Channel:				6165	MHz		
12330.000	44.51	PK	H	5.47	49.98	74.00	24.02
12330.000	31.92	AV	H	5.47	37.39	54.00	16.61
12330.000	44.95	PK	V	5.47	50.42	74.00	23.58
12330.000	32.30	AV	V	5.47	37.77	54.00	16.23
High Channel:				6405	MHz		
12810.000	45.95	PK	H	5.21	51.16	88.20	37.04
12810.000	32.50	AV	H	5.21	37.71	68.20	30.49
12810.000	45.62	PK	V	5.21	50.83	88.20	37.37
12810.000	31.77	AV	V	5.21	36.98	68.20	31.22

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5985	MHz		
11970.000	46.32	PK	H	5.18	51.50	74.00	22.50
11970.000	32.91	AV	H	5.18	38.09	54.00	15.91
11970.000	45.36	PK	V	5.18	50.54	74.00	23.46
11970.000	32.14	AV	V	5.18	37.32	54.00	16.68
Middle Channel:				6145	MHz		
12290.000	45.21	PK	H	5.56	50.77	74.00	23.23
12290.000	32.65	AV	H	5.56	38.21	54.00	15.79
12290.000	46.31	PK	V	5.56	51.87	74.00	22.13
12290.000	33.17	AV	V	5.56	38.73	54.00	15.27
High Channel:				6385	MHz		
12770.000	45.47	PK	H	5.14	50.61	88.20	37.59
12770.000	32.38	AV	H	5.14	37.52	68.20	30.68
12770.000	45.32	PK	V	5.14	50.46	88.20	37.74
12770.000	32.67	AV	V	5.14	37.81	68.20	30.39

6425-6525MHz:B6

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6435 MHz							
12870.000	45.15	PK	H	5.42	50.57	88.20	37.63
12870.000	33.69	AV	H	5.42	39.11	68.20	29.09
12870.000	44.91	PK	V	5.42	50.33	88.20	37.87
12870.000	32.26	AV	V	5.42	37.68	68.20	30.52
Middle Channel: 6475 MHz							
12950.000	45.00	PK	H	5.72	50.72	88.20	37.48
12950.000	33.45	AV	H	5.72	39.17	68.20	29.03
12950.000	40.97	PK	V	5.72	46.69	88.20	41.51
12950.000	31.76	AV	V	5.72	37.48	68.20	30.72
High Channel: 6515 MHz							
13030.000	44.46	PK	H	5.88	50.34	88.20	37.86
13030.000	32.41	AV	H	5.88	38.29	68.20	29.91
13030.000	44.47	PK	V	5.88	50.35	88.20	37.85
13030.000	32.09	AV	V	5.88	37.97	68.20	30.23

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6445 MHz							
12890.000	45.71	PK	H	5.49	51.20	88.20	37.00
12890.000	33.51	AV	H	5.49	39.00	68.20	29.20
12890.000	46.18	PK	V	5.49	51.67	88.20	36.53
12890.000	34.30	AV	V	5.49	39.79	68.20	28.41
High Channel: 6485 MHz							
12970.000	44.89	PK	H	5.80	50.69	88.20	37.51
12970.000	32.07	AV	H	5.80	37.87	68.20	30.33
12970.000	44.73	PK	V	5.80	50.53	88.20	37.67
12970.000	32.20	AV	V	5.80	38.00	68.20	30.20

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel: 6465 MHz							
12930.000	44.75	PK	H	5.64	50.39	88.20	37.81
12930.000	32.63	AV	H	5.64	38.27	68.20	29.93
12930.000	44.35	PK	V	5.64	49.99	88.20	38.21
12930.000	32.56	AV	V	5.64	38.20	68.20	30.00

Crossed U-NII 6 and U-NII 7

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional				6525	MHz		
13050.000	44.92	PK	H	5.86	50.78	88.20	37.42
13050.000	32.59	AV	H	5.86	38.45	68.20	29.75
13050.000	44.33	PK	V	5.86	50.19	88.20	38.01
13050.000	32.46	AV	V	5.86	38.32	68.20	29.88

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional				6545	MHz		
13090.000	44.59	PK	H	5.81	50.40	88.20	37.80
13090.000	32.63	AV	H	5.81	38.44	68.20	29.76
13090.000	45.33	PK	V	5.81	51.14	88.20	37.06
13090.000	33.90	AV	V	5.81	39.71	68.20	28.49

6525-6875MHz:B7

802.11 ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				6535	MHz		
13070.000	45.21	PK	H	5.83	51.04	88.20	37.16
13070.000	33.47	AV	H	5.83	39.30	68.20	28.90
13070.000	45.11	PK	V	5.83	50.94	88.20	37.26
13070.000	33.53	AV	V	5.83	39.36	68.20	28.84
Middle Channel:				6695	MHz		
13390.000	44.69	PK	H	6.55	51.24	74.00	22.76
13390.000	32.53	AV	H	6.55	39.08	54.00	14.92
13390.000	44.79	PK	V	6.55	51.34	74.00	22.66
13390.000	32.03	AV	V	6.55	38.58	54.00	15.42
High Channel:				6855	MHz		
13710.000	44.31	PK	H	6.11	50.42	88.20	37.78
13710.000	32.87	AV	H	6.11	38.98	68.20	29.22
13710.000	44.19	PK	V	6.11	50.30	88.20	37.90
13710.000	32.20	AV	V	6.11	38.31	68.20	29.89

802.11 ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6565 MHz							
13130.000	44.17	PK	H	6.00	50.17	88.20	38.03
13130.000	32.71	AV	H	6.00	38.71	68.20	29.49
13130.000	44.02	PK	V	6.00	50.02	88.20	38.18
13130.000	32.36	AV	V	6.00	38.36	68.20	29.84
Middle Channel: 6685 MHz							
13370.000	44.14	PK	H	6.60	50.74	74.00	23.26
13370.000	32.56	AV	H	6.60	39.16	54.00	14.84
13370.000	43.98	PK	V	6.60	50.58	74.00	23.42
13370.000	31.85	AV	V	6.60	38.45	54.00	15.55
High Channel: 6845 MHz							
13690.000	45.90	PK	H	6.09	51.99	88.20	36.21
13690.000	33.68	AV	H	6.09	39.77	68.20	28.43
13690.000	45.60	PK	V	6.09	51.69	88.20	36.51
13690.000	33.59	AV	V	6.09	39.68	68.20	28.52

802.11 ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 6625 MHz							
13250.000	44.64	PK	H	6.61	51.25	74.00	22.75
13250.000	32.55	AV	H	6.61	39.16	54.00	14.84
13250.000	44.93	PK	V	6.61	51.54	74.00	22.46
13250.000	32.73	AV	V	6.61	39.34	54.00	14.66
Middle Channel: 6705 MHz							
13410.000	44.26	PK	H	6.49	50.75	88.20	37.45
13410.000	32.45	AV	H	6.49	38.94	68.20	29.26
13410.000	44.98	PK	V	6.49	51.47	88.20	36.73
13410.000	32.13	AV	V	6.49	38.62	68.20	29.58
High Channel: 6785 MHz							
13570.000	45.22	PK	H	6.16	51.38	88.20	36.82
13570.000	32.68	AV	H	6.16	38.84	68.20	29.36
13570.000	45.21	PK	V	6.16	51.37	88.20	36.83
13570.000	33.47	AV	V	6.16	39.63	68.20	28.57

Crossed U-NII 7 and U-NII 8

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional				6875	MHz		
13750.000	45.46	PK	H	6.22	51.68	88.20	36.52
13750.000	33.05	AV	H	6.22	39.27	68.20	28.93
13750.000	44.91	PK	V	6.22	51.13	88.20	37.07
13750.000	32.57	AV	V	6.22	38.79	68.20	29.41

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional				6885	MHz		
13770.000	43.92	PK	H	6.28	50.20	88.20	38.00
13770.000	31.25	AV	H	6.28	37.53	68.20	30.67
13770.000	45.03	PK	V	6.28	51.31	88.20	36.89
13770.000	33.04	AV	V	6.28	39.32	68.20	28.88

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Additional				6865	MHz		
13730.000	45.21	PK	H	6.17	51.38	88.20	36.82
13730.000	33.63	AV	H	6.17	39.80	68.20	28.40
13730.000	44.58	PK	V	6.17	50.75	88.20	37.45
13730.000	32.75	AV	V	6.17	38.92	68.20	29.28

6875-7125MHz:B8

802.11ax he 20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				6895	MHz		
13790.000	44.92	PK	H	6.34	51.26	88.20	36.94
13790.000	32.21	AV	H	6.34	38.55	68.20	29.65
13790.000	44.37	PK	V	6.34	50.71	88.20	37.49
13790.000	32.35	AV	V	6.34	38.69	68.20	29.51
Middle Channel:				6995	MHz		
13990.000	44.03	PK	H	7.26	51.29	88.20	36.91
13990.000	32.11	AV	H	7.26	39.37	68.20	28.83
13990.000	46.06	PK	V	7.26	53.32	88.20	34.88
13990.000	34.12	AV	V	7.26	41.38	68.20	26.82
High Channel:				7115	MHz		
14230.000	45.06	PK	H	7.70	52.76	88.20	35.44
14230.000	33.27	AV	H	7.70	40.97	68.20	27.23
14230.000	45.36	PK	V	7.70	53.06	88.20	35.14
14230.000	33.89	AV	V	7.70	41.59	68.20	26.61

802.11ax he 40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				6925	MHz		
13850.000	44.74	PK	H	6.68	51.42	88.20	36.78
13850.000	32.35	AV	H	6.68	39.03	68.20	29.17
13850.000	44.64	PK	V	6.68	51.32	88.20	36.88
13850.000	32.11	AV	V	6.68	38.79	68.20	29.41
Middle Channel:				6965	MHz		
13990.000	46.00	PK	H	7.07	53.07	88.20	35.13
13990.000	34.20	AV	H	7.07	41.27	68.20	26.93
13990.000	45.59	PK	V	7.07	52.66	88.20	35.54
13990.000	33.14	AV	V	7.07	40.21	68.20	27.99
High Channel:				7085	MHz		
14170.000	44.16	PK	H	7.82	51.98	88.20	36.22
14170.000	32.85	AV	H	7.82	40.67	68.20	27.53
14170.000	45.08	PK	V	7.82	52.90	88.20	35.30
14170.000	33.36	AV	V	7.82	41.18	68.20	27.02

802.11ax he 80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				6945	MHz		
13890.000	44.19	PK	H	6.91	51.10	88.20	37.10
13890.000	32.07	AV	H	6.91	38.98	68.20	29.22
13890.000	45.06	PK	V	6.91	51.97	88.20	36.23
13890.000	33.58	AV	V	6.91	40.49	68.20	27.71
High Channel:				7025	MHz		
14050.000	43.91	PK	H	7.50	51.41	88.20	36.79
14050.000	31.69	AV	H	7.50	39.19	68.20	29.01
14050.000	44.03	PK	V	7.50	51.53	88.20	36.67
14050.000	32.52	AV	V	7.50	40.02	68.20	28.18

Please refer to Annex " 2403S73093E-RF-00EA1_Appendix A" for detail test plots.

4.3 Contention Based Protocol

Test Information:

Sample Number:	2XX1-1	Test Date:	2025/6/9-2025/6/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25.2-25.8	Relative Humidity: (%)	53-57	ATM Pressure: (kPa)	100.3-100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2025/03/31	2026/03/30
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2025/01/09	2026/01/08
Decentest	Multi-channel Radio Collection Test Set	DT2400FEU	DS78805	2024/12/20	2025/12/19
Marcom instruments LTD	Attenuator	6534/4	3732	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Please refer to Annex " 2403S73093E-RF-00EA1_Appendix B" for detail test data and plots.

4.4 Other RF Conducted Test

Please refer to Annex " 2403S73093E-RF-00EA1_Appendix C" for detail test data and plots.

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403S73093E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2403S73093E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403S73093E-RF-00EA1-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====