

TEST REPORT

Reference No...... : WTX26X06187946W001
FCC ID..... : 2BF4V-S6652P2-T2
Applicant..... : Iton Technology Corp.
Address..... : Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge North Road,
Longgang District, Shenzhen, China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : WiFi BT Combo module
Model No...... : S6652P2-T2
Standards..... : FCC Part 15.407
Date of Receipt sample... : 2026-06-29
Date of Test..... : 2026-07-23 to 2026-09-21
Date of Issue..... : 2026-09-24
Test Report Form No...... : WTX_Part 15_407W
Test Result..... : **Pass**

Remarks:

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

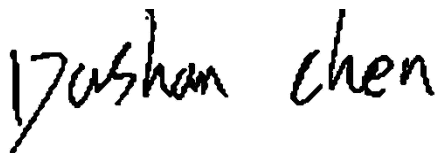
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Block 70 Bao'an District, Shenzhen, Guangdong, China

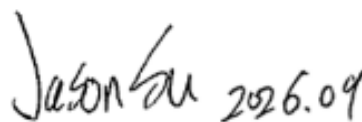
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Approved by:



Jason Su/Manager

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Report version

Version No.	Date of issue	Description
Rev.00	2026-09-24	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	WiFi BT Combo module
Trade Name:	ITON
Model No.:	S6652P2-T2
Adding Model(s):	S6652P3, S6652P2-T3, S6652P2-T4, S6652P2-T5, S6652P2-T6, S6652P2-T7, S6652P2-T8, S6652P2-T9
Rated Voltage:	DC3.3V
Battery Capacity:	/
Power Adapter:	/
<i>Note: The sample information is provided by the customer. The other models listed in the report are named differently from the main test model S6652P2-T2, but the circuit and electronic structure remain unchanged, as declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11ax20, 802.11ax40, 802.11ax80
Frequency Range:	U-NII-5: 5955-6415MHz U-NII-6: 6435-6525MHz U-NII-7: 6535-6875MHz U-NII-8: 6885-7115MHz
Max. RF Output Power:	Antenna 1: 6.33dBm (Conducted) Antenna 2: 4.87dBm (Conducted) MIMO: 8.24dBm (Conducted)
Type of Modulation:	BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Type of Antenna:	External Antenna
Antenna Gain:	2.84dBi
<i>Note: 1: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB987597 D02 v03: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE 6 GHz (U-NII) DEVICES PART 15, SUBPART E

KDB789033 D02 v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-Nii) Devices Part 15, Subparte.

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

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

Run commands and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

ANT1

Mode	MIMO											
	U-NII-5:5955-6415M Hz			U-NII-6:6435-6515M Hz			U-NII-7:6535-6865M Hz			U-NII-8:6885-7115M Hz		
802.11ax-HE 20	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
802.11ax-HE 40	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
802.11ax-HE 80	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D

ANT2

Mode	MIMO											
	U-NII-5:5955-6415M Hz			U-NII-6:6435-6515M Hz			U-NII-7:6535-6865M Hz			U-NII-8:6885-7115M Hz		
802.11ax-HE 20	25	25	25	25	25	25	25	25	25	25	25	25
802.11ax-HE 40	25	25	25	25	25	25	25	25	25	25	25	25
802.11ax-HE 80	25	25	25	25	25	25	25	25	25	25	25	25

1.5 EUT Operating during test

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

1.6 Test Facility

Address of the test laboratory

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

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

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

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.7 EUT Setup and Test Mode

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

Test Mode List		
Test Mode	Description	Remark
TM1	802.11ax20	5955MHz(Low), 6175MHz(Middle), 6415MHz(High); 6435MHz(Low), 6475(Middle), 6515MHz(High); 6535MHz(Low), 6695MHz(Middle), 6875MHz(High); 6895MHz(Low), 6995MHz(Middle), 7115MHz(High)
TM2	802.11ax40	5965MHz(Low), 6165MHz(Middle), 6405MHz(High); 6445MHz(Low), 6485(Middle), 6525MHz(High); 6565MHz(Low), 6685MHz(Middle), 6845MHz(High); 6885MHz(Low), 6965MHz(Middle), 7085MHz(High)
TM3	802.11ax80	5985MHz(Low), 6145MHz(Middle), 6385MHz(High); 6465MHz(Low) 6545MHz(Low), 6705MHz(Middle), 6865MHz(High); 6945MHz(Low), 7025MHz(High)
Note 1: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report. Note 2: The 6GHz WIFI has two antennas and support Multiple Outputs for 802.11ax mode for this report; For Antenna 1 Gain is 2.74dBi; Antenna 2 Gain is 2.74dBi;According to KDB 662911, for same Directional gain = $GANT + 10 \log(NANT) \text{ dBi} = 2.74 + 10\log(2) \text{ dBi} = 5.75\text{dBi}$		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

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

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.0	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	/	XH1200-2000	/
Antenna	/	WIFI 7 External antenna	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.57\text{dB}$
Occupied Bandwidth	Conducted	$\pm 0.015\text{MHz}$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emission 1#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Conducted Emission 2#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Transmitter Spurious Emissions chamber A	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.70\text{dB}$
		@1GHz to 6GHz: $\pm 5.88\text{dB}$
		@6GHz to 18GHz: $\pm 5.96\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$
Transmitter Spurious Emissions chamber B	Radiated	@30MHz to 1GHz: $\pm 5.36\text{dB}$
Transmitter Spurious Emissions chamber C	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.28\text{dB}$
		@1GHz to 6GHz: $\pm 5.56\text{dB}$
		@6GHz to 18GHz: $\pm 5.72\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$

1.9 Test Equipment List and Details

Internal No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1002	Communication Tester	Rohde & Schwarz	CMW500	1201.0002 k50-14865 0-FB	2026-03-25	2027-03-24
WTXE1105A 1001	Communication Tester	Rohde & Schwarz	CMW500	1201.0002 K50-1709 03-pm	2026-02-06	2027-02-05
WTXE1105A 1007	Wi-Fi 7GHz Band Extender	Tonscend	TS-WF7U2	24E806W F7U0859	2026-02-06	2027-02-05
WTXE1005A 1005	MXA Signal Analyzer	Agilent	N9020A	US471401 02	2026-03-25	2027-03-24
WTXE1084A 1001	MXA Signal Analyzer	KEYSIGHT	N9020A	MY543205 48	2026-02-06	2027-02-05
WTXE1005A 1006	Spectrum Analyzer	Rohde & Schwarz	FSP40	1164.4391 K38Ser. 100368	2026-04-29	2027-04-28
WTXW1105A 1010	MXA signal Analyzer	KEYSIGHT	N9020A	MY512856 78	2026-02-06	2027-02-05
WTXE1105A 1008	RF Control Unit	Tonscend	JS0806-2	/	2026-02-06	2027-02-05
WTXW1105A 1136	RF ATTENUATOR	FEIYANG	N-JK	/	2026-02-06	2027-02-05
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2026-02-23	2027-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1007A 1002	Amplifier	HP	8447F	2805A034 75	2026-02-05	2027-02-04
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2026-03-11	2029-03-10
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22

1032-3						
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2026-02-05	2027-02-04
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2026-02-05	2027-02-04
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2026-02-05	2027-02-04
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2026-02-05	2027-02-04
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2026-02-23	2027-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007A 1003	Amplifier	HP	8447F	2944A038 69	2026-02-05	2027-02-04

WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2026-02-05	2027-02-04
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2026-02-05	2027-02-04
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2026-02-05	2027-02-04
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2026-02-23	2027-02-22
☐ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2026-02-05	2027-02-04
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2026-02-05	2027-02-04
WTXE1104A	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22

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Software List			
Description	Manufacturer	Model	Version
EMI Test Software/EZ-EMC (Radiated Emission A)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission B)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission C)	Farad	RA-03A1-2	1.1.4.2
EMI Test Software/EZ-EMC (Conducted Emission Room 1#)	Farad	3A1*CE-RE	1.1.4.3
EMI Test Software/EZ-EMC (Conducted Emission Room 2#)	Farad	3A1*CE-RE	1.1.4.3
WIFI6E/7 Test Software	Tonscend	JS1120-3	V3.5.39
RF Test System	Tonscend	JS1120-3	V3.6.21

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

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(9)	Conducted Emissions at AC Power Line (150kHz-30MHz)	N/A
ANSI C63.10(2020) SECTION 12.2	Duty Cycle	Compliant
ANSI C63.10(2020) SECTION 12.4.2	99% Bandwidth(OBW)	Compliant
§15.407(a)	26dB Emission bandwidth	Compliant
§15.407(a)	Maximum Conducted output power	Compliant
§15.407(a)	Peak Power spectrum density	Compliant
§15.407(b)	In-band Emission(Emission Mask)	Compliant
§15.407(b)	Radiated Emission(Below 1GHz)	Compliant
§15.407(b)	Radiated Emissions(Above 1GHz)	Compliant
§15.407(b)	Radiated Emissions which fall in the restricted bands	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.407(d)	Contention Based Protocol	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

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

3.2 Evaluation Information

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

4. Automatically Discontinue Transmission

4.1 Standard Applicable

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

4.2 Summary of Test Results

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

5. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

For a standard power access point and fixed client device operating in the 5.925-6.425GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW (21dBm).

For an indoor access point operating in the 5.925-7.125GHz band, the maximum power spectral density must not exceed 5dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30dBm.

For a subordinate device operating under the control of an indoor access point in the 5.925-7.125GHz band, the maximum power spectral density must not exceed 5dBm 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 30dBm.

For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425GHz and 6.525-6.875GHz bands, the maximum power spectral density must not exceed 17dBm 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 30dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed -1dBm 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 24dBm.

For very low power devices operating in the 5.925-6.425GHz and 6.525-6.875GHz bands, the maximum power spectral density must not exceed -5dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14dBm.

5.2 Test Procedure

According to 789033 D02 v02r01 General UNII Test Procedures New Rules v02, the following is the measurement procedure.

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.I.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the

measured result, whereas RBW ($< 500\text{kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW ($< 1\text{MHz}$) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100kHz for the sections 5.c) and 5.d) above, since RBW=100kHz is available on nearly all spectrum analyzers.

5.3 Summary of Test Results/Plots

Please refer to Appendix D

6. Emission Bandwidth and Occupied Bandwidth

6.1 Standard Applicable

See 6.9.3 for the measurement procedure for OBW.

6.2 Test Procedure

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.

6.3 Summary of Test Results/Plots

Please refer to Appendix A1&A2

7. Maximum Conducted Output Power

7.1 Standard Applicable

Section 15.407(a) Power limits:

For a standard power access point and fixed client device operating in the 5.925-6.425GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW (21dBm).

For an indoor access point operating in the 5.925-7.125GHz band, the maximum power spectral density must not exceed 5dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30dBm.

For a subordinate device operating under the control of an indoor access point in the 5.925-7.125GHz band, the maximum power spectral density must not exceed 5dBm 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 30dBm.

For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425GHz and 6.525-6.875GHz bands, the maximum power spectral density must not exceed 17dBm 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 30dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed -1dBm 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 24dBm.

For very low power devices operating in the 5.925-6.425GHz and 6.525-6.875GHz bands, the maximum power spectral density must not exceed -5dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14dBm.

7.2 Test Procedure

According to KDB789033 D02 v02r01 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1MHz.
- (iii) Set VBW $\geq$ 3MHz.

- (iv) Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. In-band Emission(Emission Mask)

8.1 Standard Applicable

Section 15.407(b) limits:

According to §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.

8.2 Test Procedure

According to 789033 D02 v02r01 General UNII Test Procedures New Rules v02, the following is the measurement procedure.

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500\text{kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1\text{MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100kHz for the sections 5.c) and 5.d) above, since $RBW=100\text{kHz}$ is available on nearly all spectrum analyzers.

8.3 Summary of Test Results/Plots

Please refer to Appendix E

9. Radiated Spurious Emissions

9.1 Standard Applicable

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

According to §15.407(b)(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.

789033 D02 v02r01 General UNII Test Procedures New Rules v01

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

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

where:

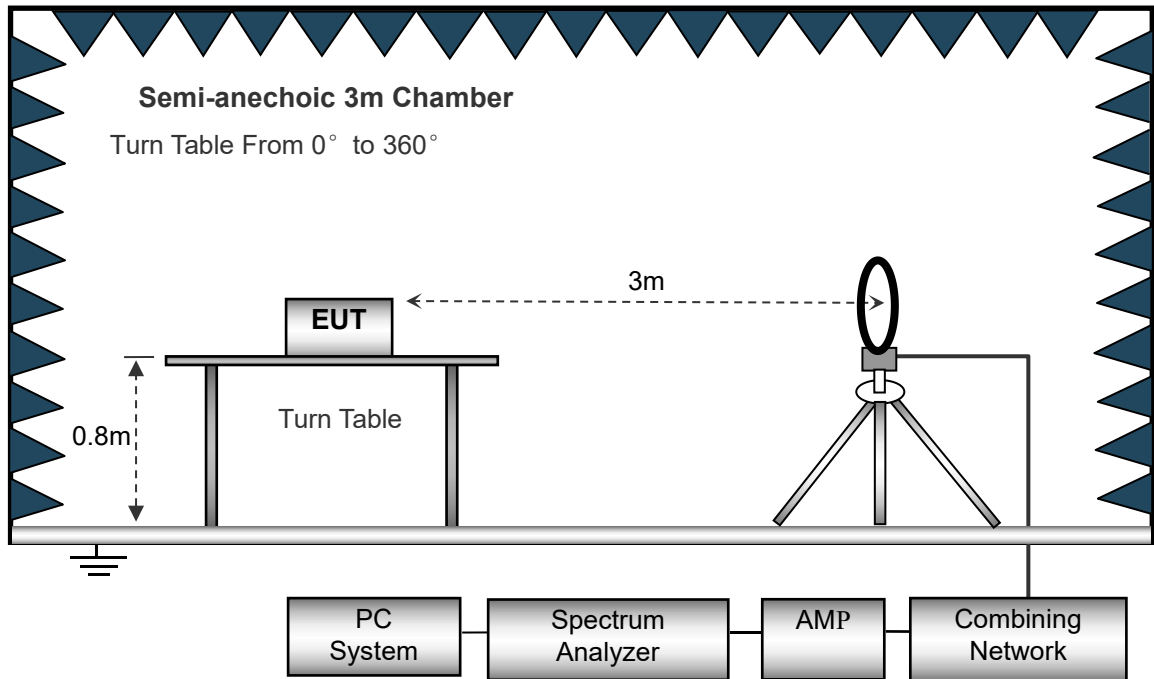
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

9.2 Test Procedure

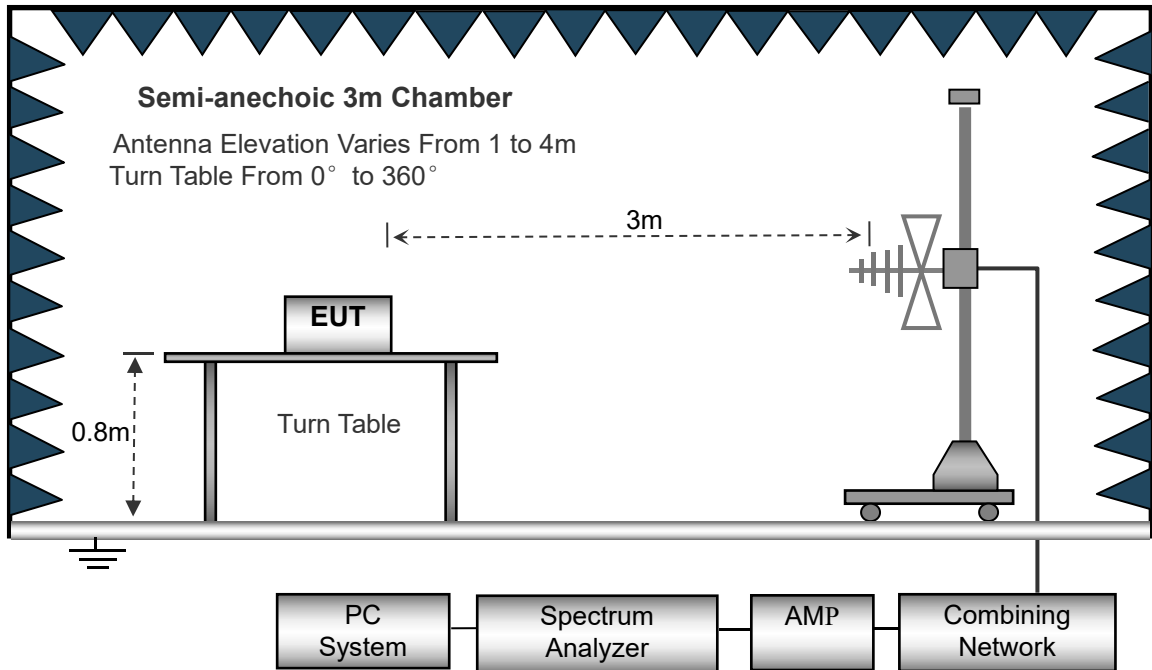
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

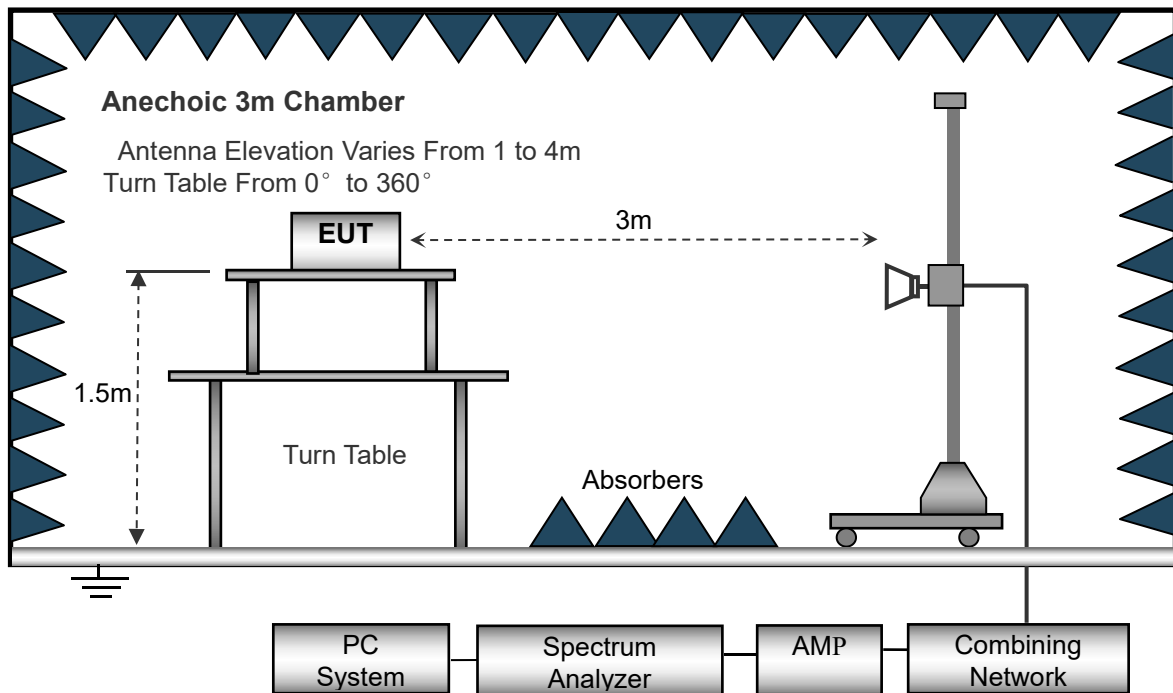
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



9.3 Test Receiver Setup

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

For peak detector:

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

For average detector:

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

9.4 Corrected Amplitude & Margin Calculation

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

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

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

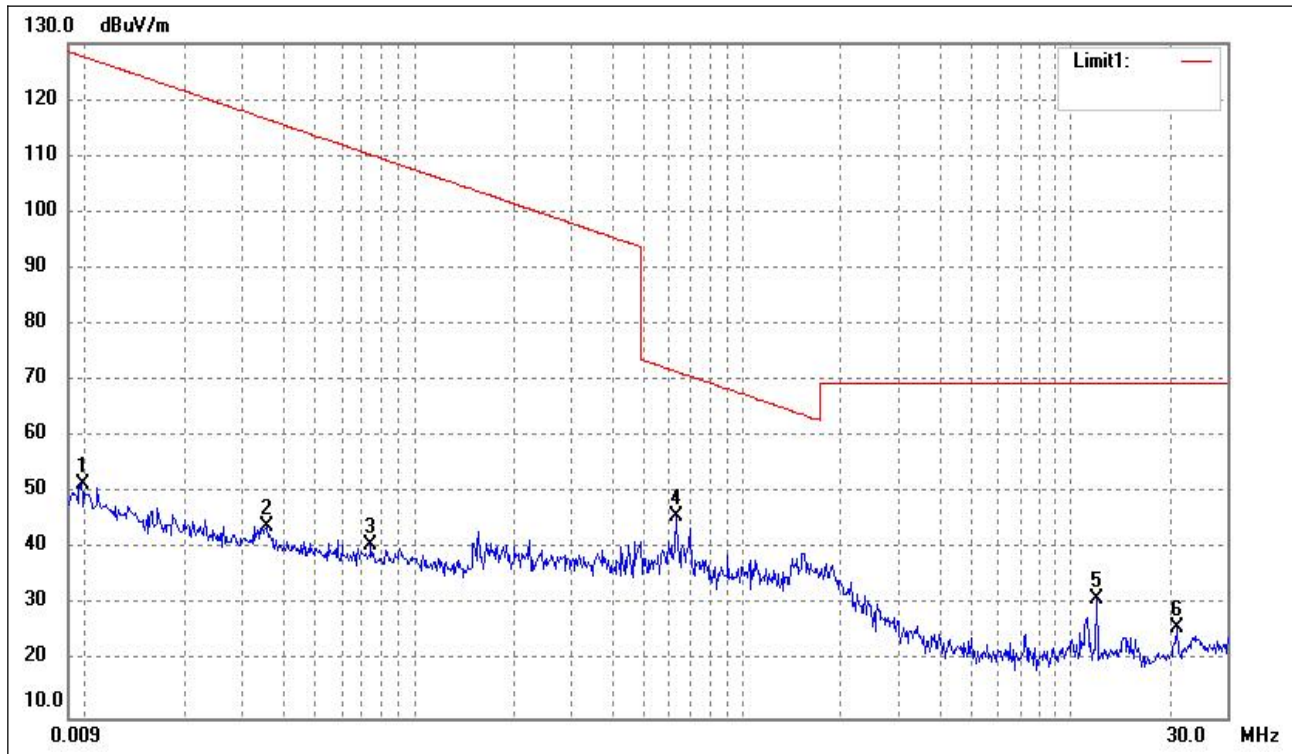
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

9.5 Summary of Test Results/Plots

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

- Spurious Emission From 9kHz to 30MHz
- Antenna 1(worst case)

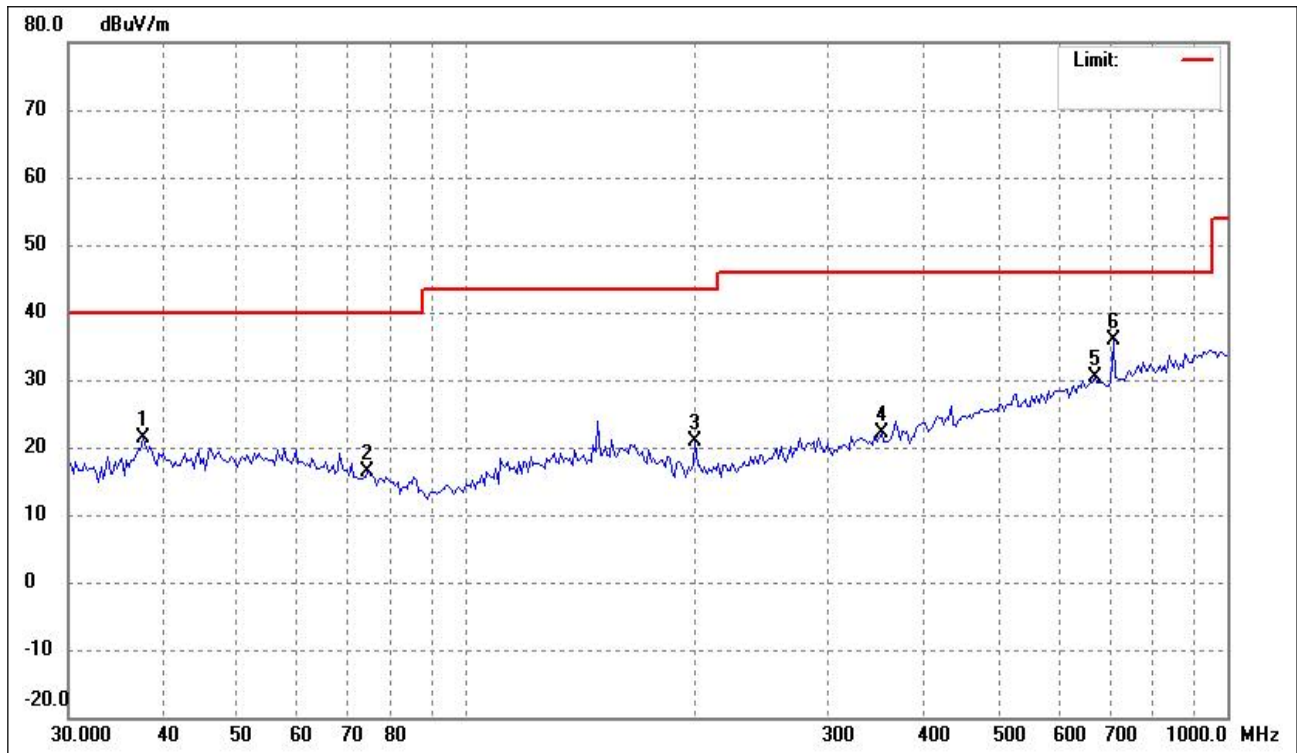
Test Channel	5955MHz(worst case)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0098	58.66	-7.18	51.48	127.76	-76.28	-	-	peak
2	0.0355	51.59	-7.46	44.13	116.59	-72.46	-	-	peak
3	0.0742	48.55	-7.78	40.77	110.19	-69.42	-	-	peak
4	0.6238	53.90	-8.03	45.87	71.71	-25.84	-	-	peak
5	11.9328	39.12	-7.91	31.21	69.50	-38.29	-	-	peak
6	20.9243	33.62	-7.50	26.12	69.50	-43.38	-	-	peak

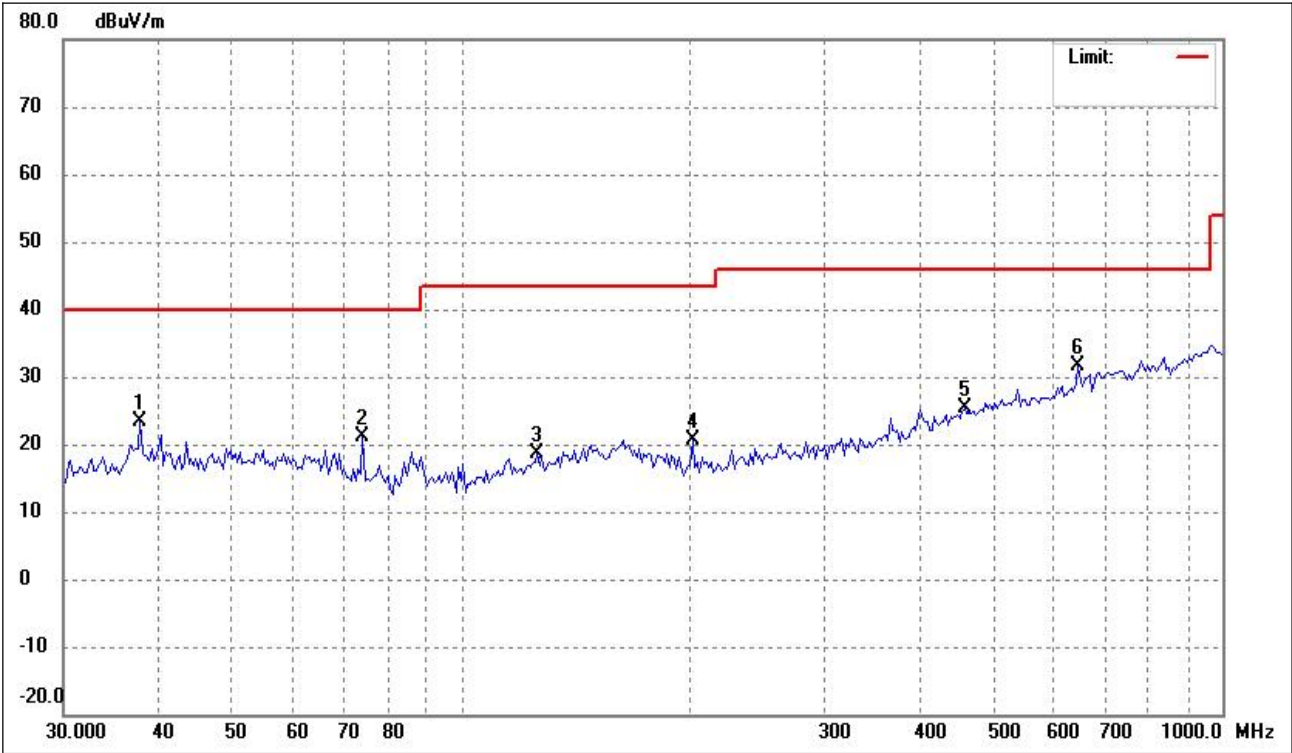
- Spurious Emission From 30MHz to 1GHz
- Antenna 1(worst case)

Test Channel	5955MHz(worst case)	Polarity:	Horizontal
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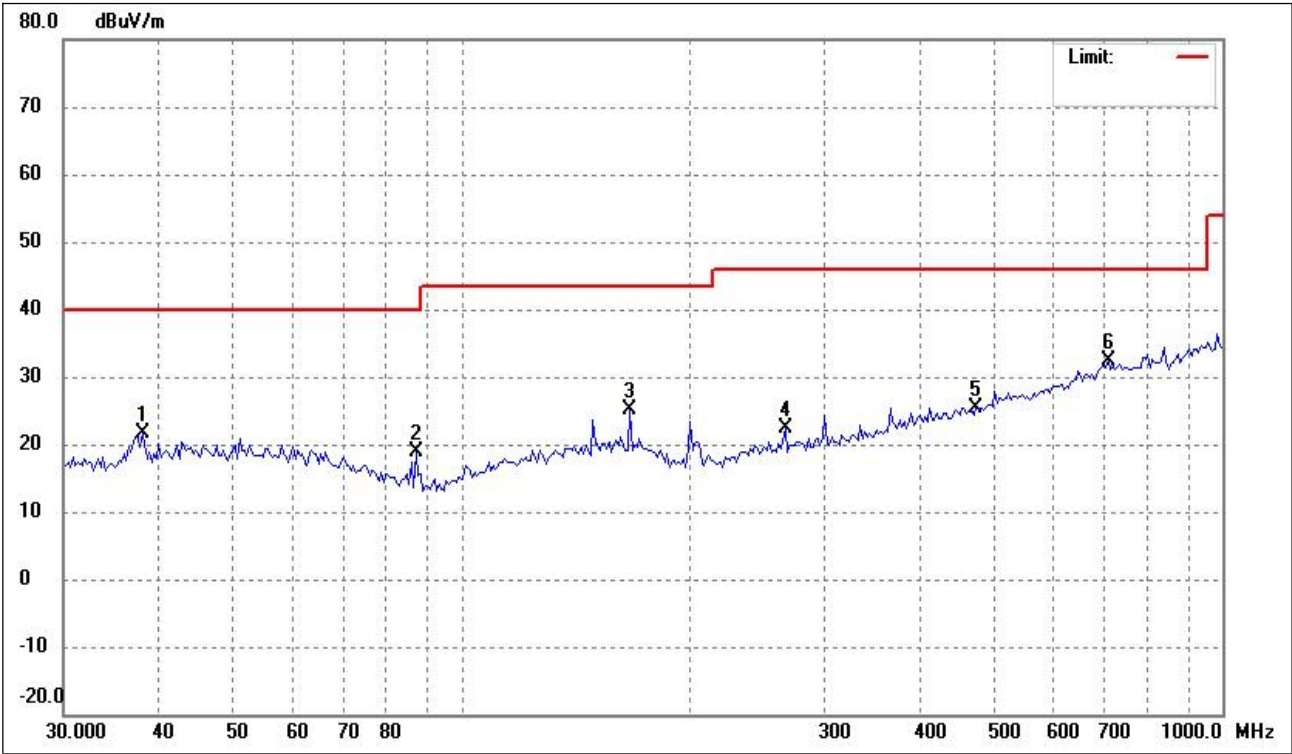
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.5647	30.52	-9.14	21.38	40.00	-18.62	-	-	peak
2	74.2696	27.58	-11.20	16.38	40.00	-23.62	-	-	peak
3	200.0431	32.59	-11.59	21.00	43.50	-22.50	-	-	peak
4	350.9721	29.50	-7.35	22.15	46.00	-23.85	-	-	peak
5	669.9523	30.36	0.02	30.38	46.00	-15.62	-	-	peak
6	708.6940	35.47	0.39	35.86	46.00	-10.14	-	-	peak

Test Channel	5955MHz(worst case)	Polarity:	Vertical
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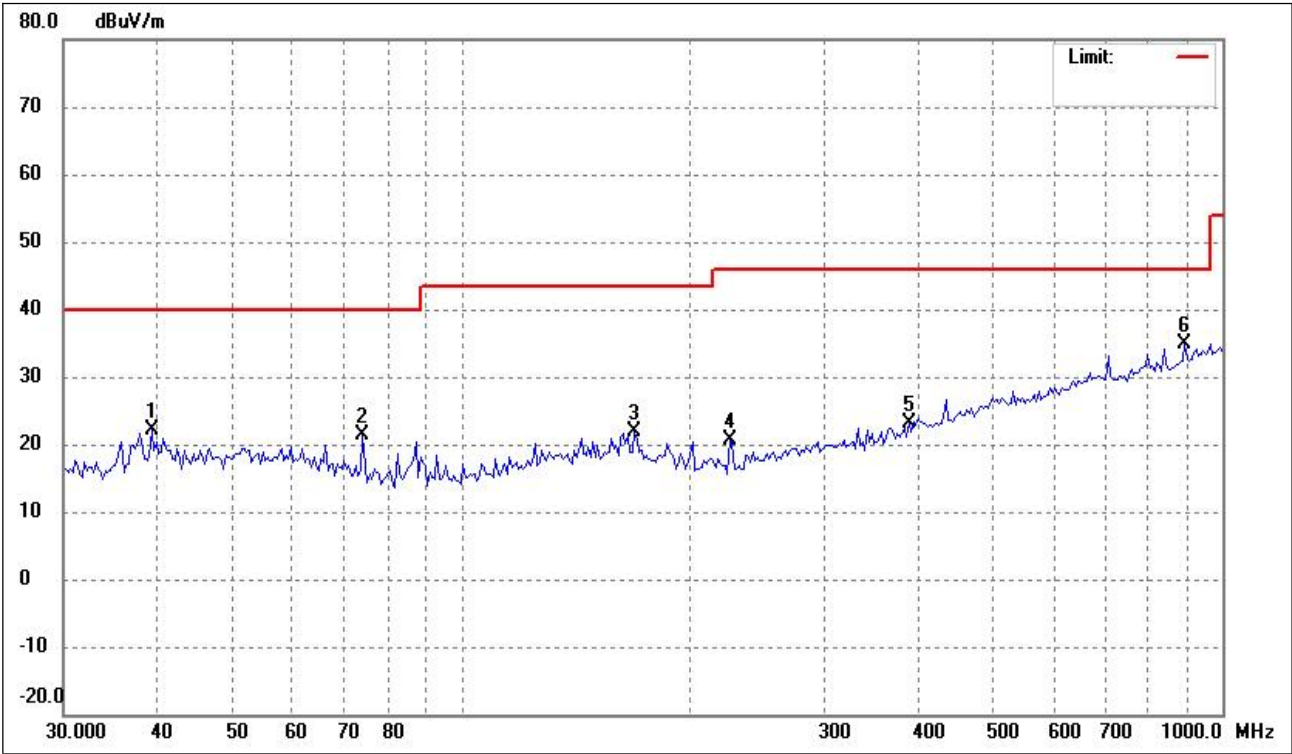
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8296	32.46	-9.10	23.36	40.00	-16.64	-	-	peak
2	74.2696	32.37	-11.20	21.17	40.00	-18.83	-	-	peak
3	125.8058	28.48	-9.87	18.61	43.50	-24.89	-	-	peak
4	201.4538	32.23	-11.64	20.59	43.50	-22.91	-	-	peak
5	458.3987	29.83	-4.51	25.32	46.00	-20.68	-	-	peak
6	646.8217	31.99	-0.24	31.75	46.00	-14.25	-	-	peak

Test Channel	6435MHz(worst case)	Polarity:	Horizontal
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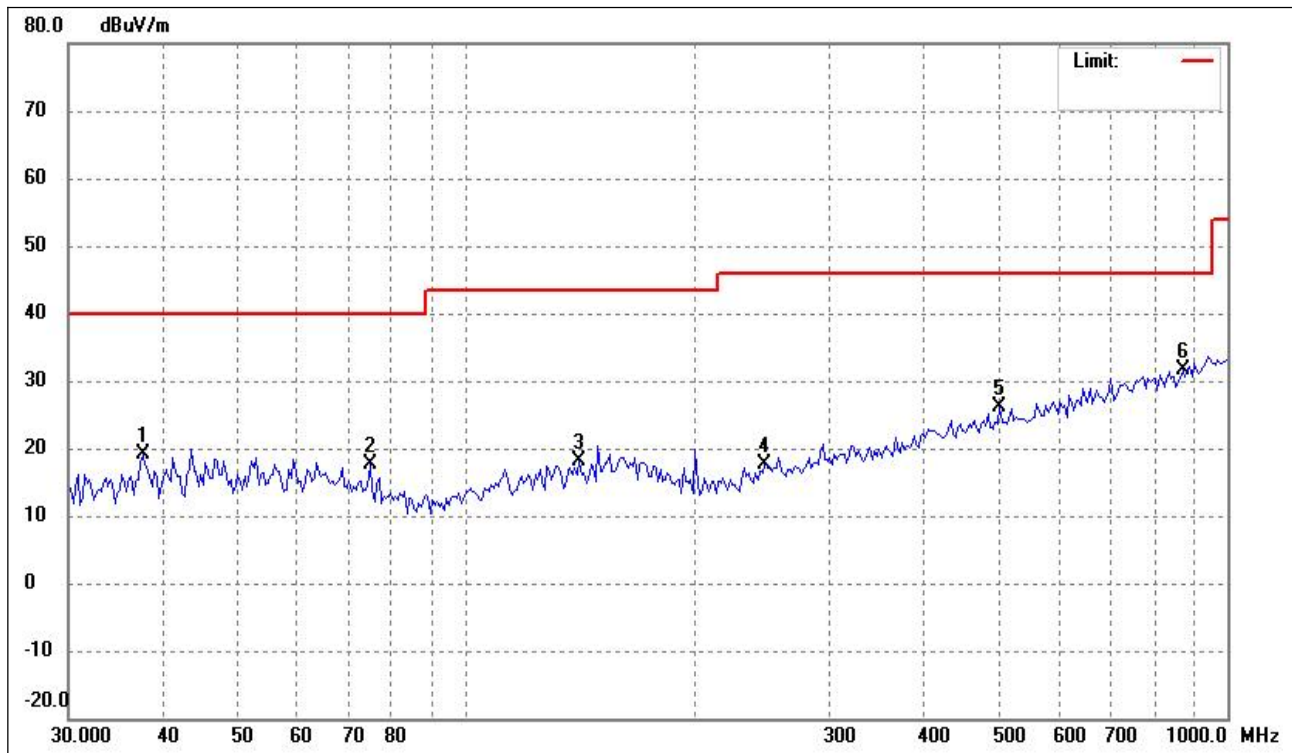
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.0964	30.68	-9.07	21.61	40.00	-18.39	-	-	peak
2	87.2979	32.44	-13.49	18.95	40.00	-21.05	-	-	peak
3	166.6385	33.74	-8.54	25.20	43.50	-18.30	-	-	peak
4	266.8394	31.74	-9.39	22.35	46.00	-23.65	-	-	peak
5	474.7912	29.71	-4.28	25.43	46.00	-20.57	-	-	peak
6	708.6940	32.10	0.39	32.49	46.00	-13.51	-	-	peak

Test Channel	6435MHz(worst case)	Polarity:	Vertical
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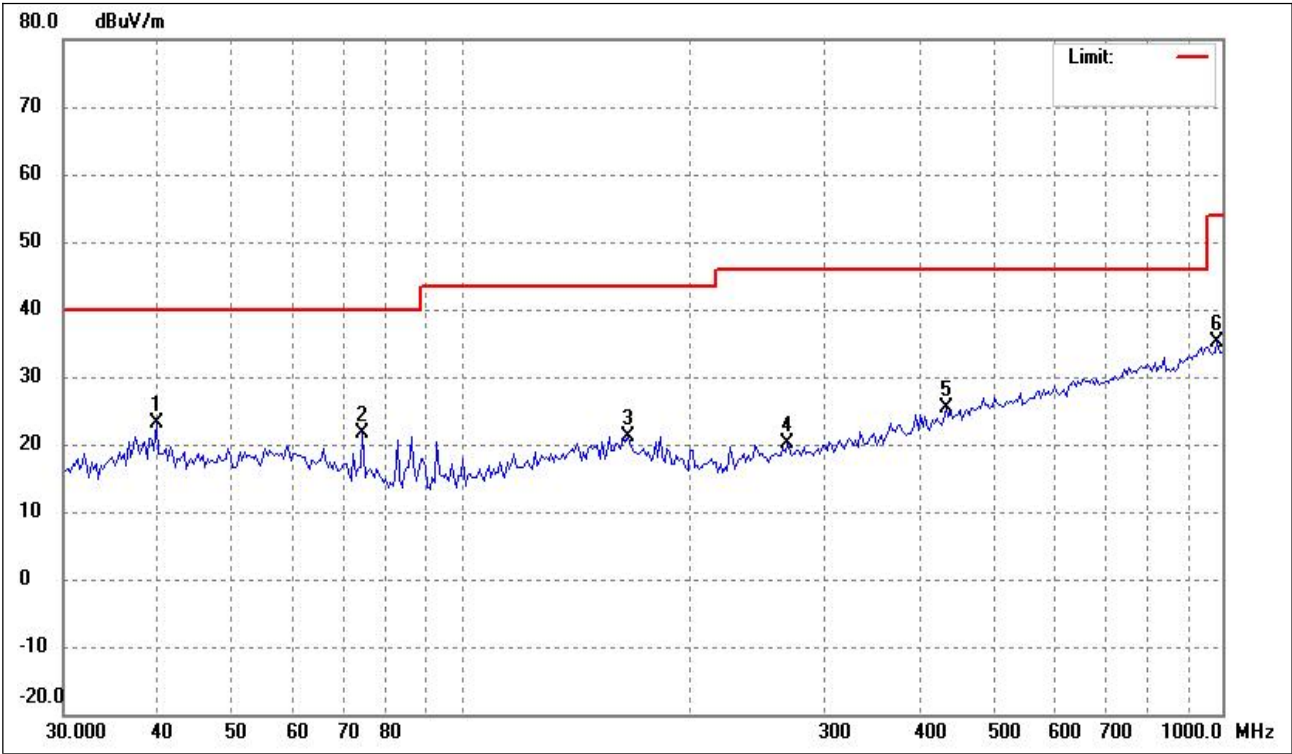
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.1824	31.19	-8.94	22.25	40.00	-17.75	-	-	peak
2	74.2696	32.62	-11.20	21.42	40.00	-18.58	-	-	peak
3	168.9970	30.57	-8.61	21.96	43.50	-21.54	-	-	peak
4	225.4267	32.18	-11.57	20.61	46.00	-25.39	-	-	peak
5	387.2565	29.76	-6.55	23.21	46.00	-22.79	-	-	peak
6	893.6556	32.30	2.54	34.84	46.00	-11.16	-	-	peak

Test Channel	6535MHz(worst case)	Polarity:	Horizontal
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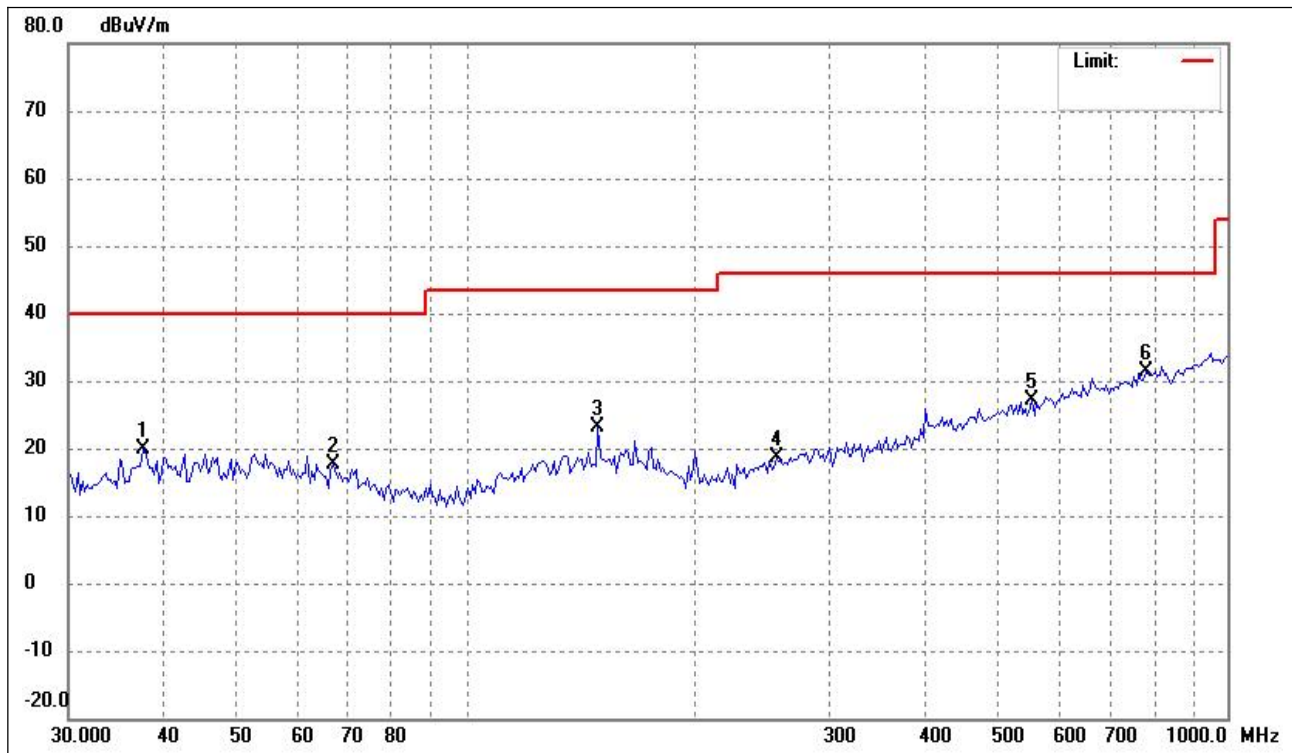
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.5647	28.20	-9.14	19.06	40.00	-20.94	-	-	peak
2	74.7933	28.85	-11.32	17.53	40.00	-22.47	-	-	peak
3	140.7766	27.00	-8.87	18.13	43.50	-25.37	-	-	peak
4	246.9901	27.82	-10.07	17.75	46.00	-28.25	-	-	peak
5	502.2472	29.68	-3.48	26.20	46.00	-19.80	-	-	peak
6	875.0132	29.49	2.16	31.65	46.00	-14.35	-	-	peak

Test Channel	6535MHz(worst case)	Polarity:	Vertical
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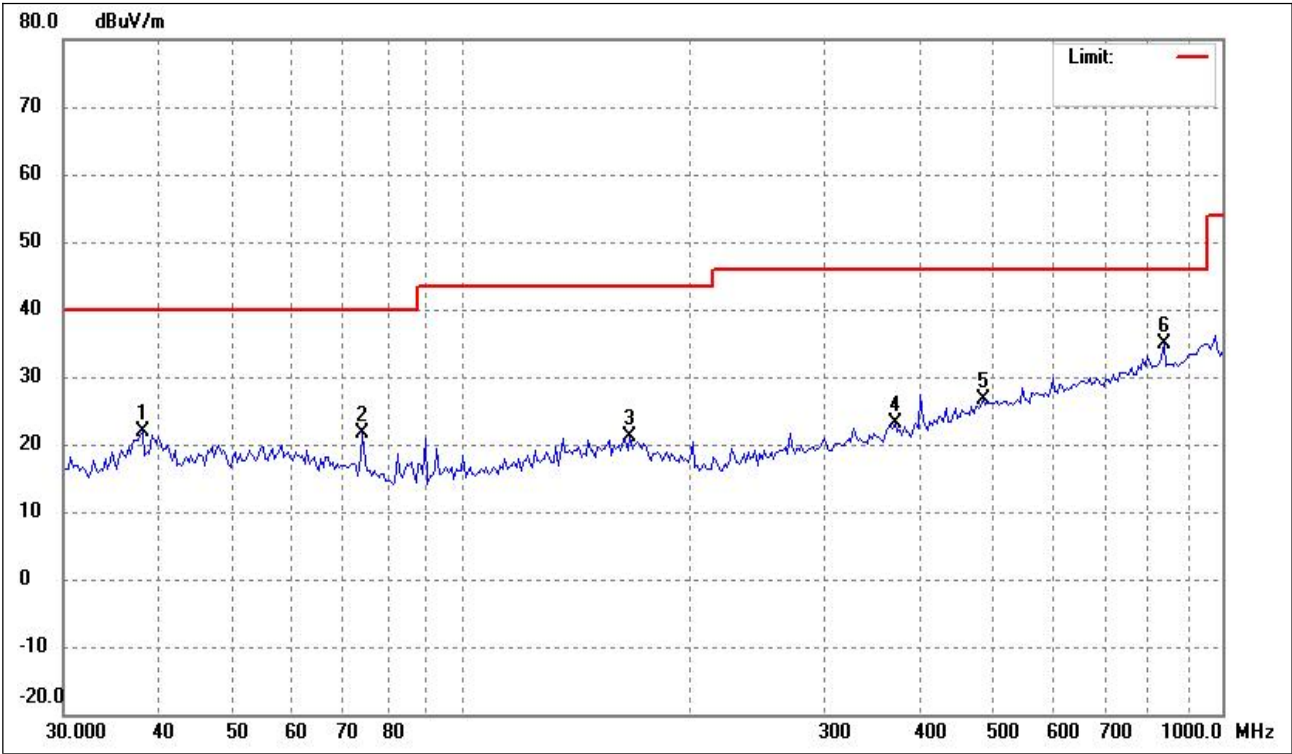
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.7370	32.07	-8.89	23.18	40.00	-16.82	-	-	peak
2	74.2696	32.76	-11.20	21.56	40.00	-18.44	-	-	peak
3	165.4716	29.73	-8.48	21.25	43.50	-22.25	-	-	peak
4	268.7212	29.47	-9.31	20.16	46.00	-25.84	-	-	peak
5	433.3397	30.73	-5.34	25.39	46.00	-20.61	-	-	peak
6	986.0439	31.52	3.69	35.21	54.00	-18.79	-	-	peak

Test Channel	6895MHz(worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.5647	29.01	-9.14	19.87	40.00	-20.13	-	-	peak
2	66.8395	27.41	-9.80	17.61	40.00	-22.39	-	-	peak
3	148.9173	31.68	-8.54	23.14	43.50	-20.36	-	-	peak
4	255.8226	28.45	-9.77	18.68	46.00	-27.32	-	-	peak
5	554.1708	29.76	-2.60	27.16	46.00	-18.84	-	-	peak
6	781.9605	29.79	1.53	31.32	46.00	-14.68	-	-	peak

Test Channel	6895MHz(worst case)	Polarity:	Vertical
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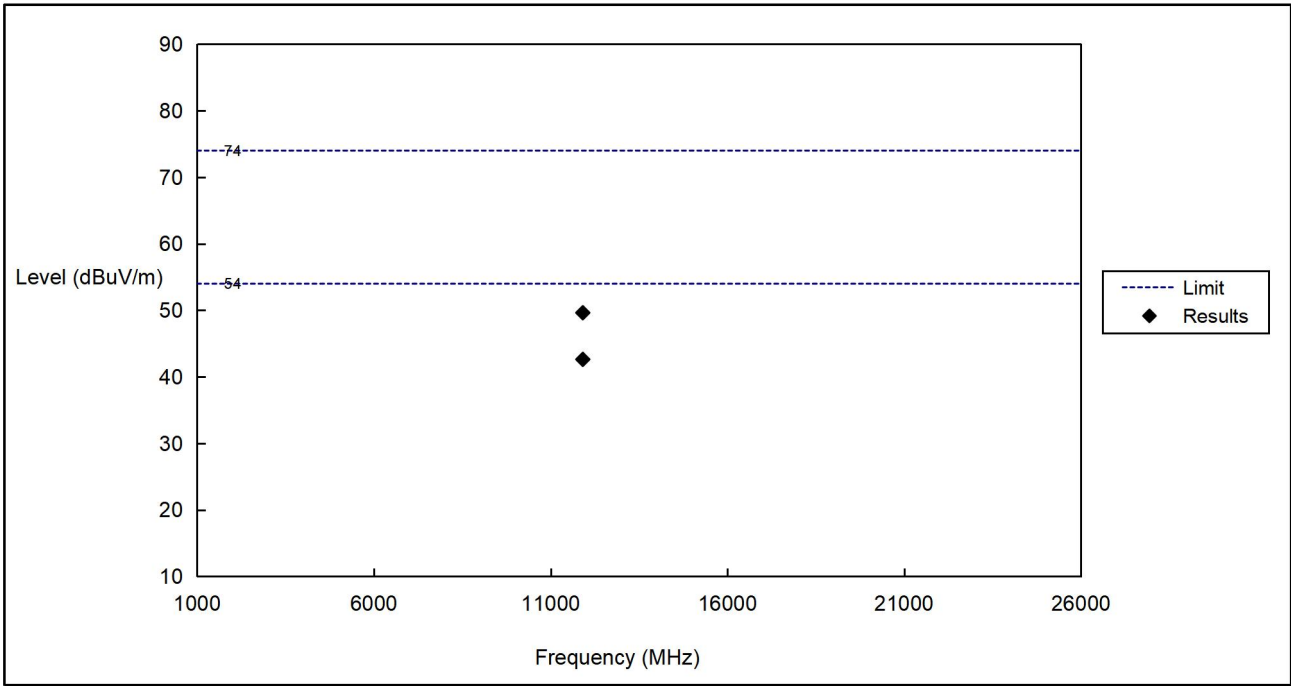


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.0964	30.87	-9.07	21.80	40.00	-18.20	-	-	peak
2	74.2696	32.88	-11.20	21.68	40.00	-18.32	-	-	peak
3	166.6385	29.71	-8.54	21.17	43.50	-22.33	-	-	peak
4	371.2679	30.04	-6.92	23.12	46.00	-22.88	-	-	peak
5	484.9068	30.62	-3.97	26.65	46.00	-19.35	-	-	peak
6	838.8870	33.13	1.68	34.81	46.00	-11.19	-	-	peak

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

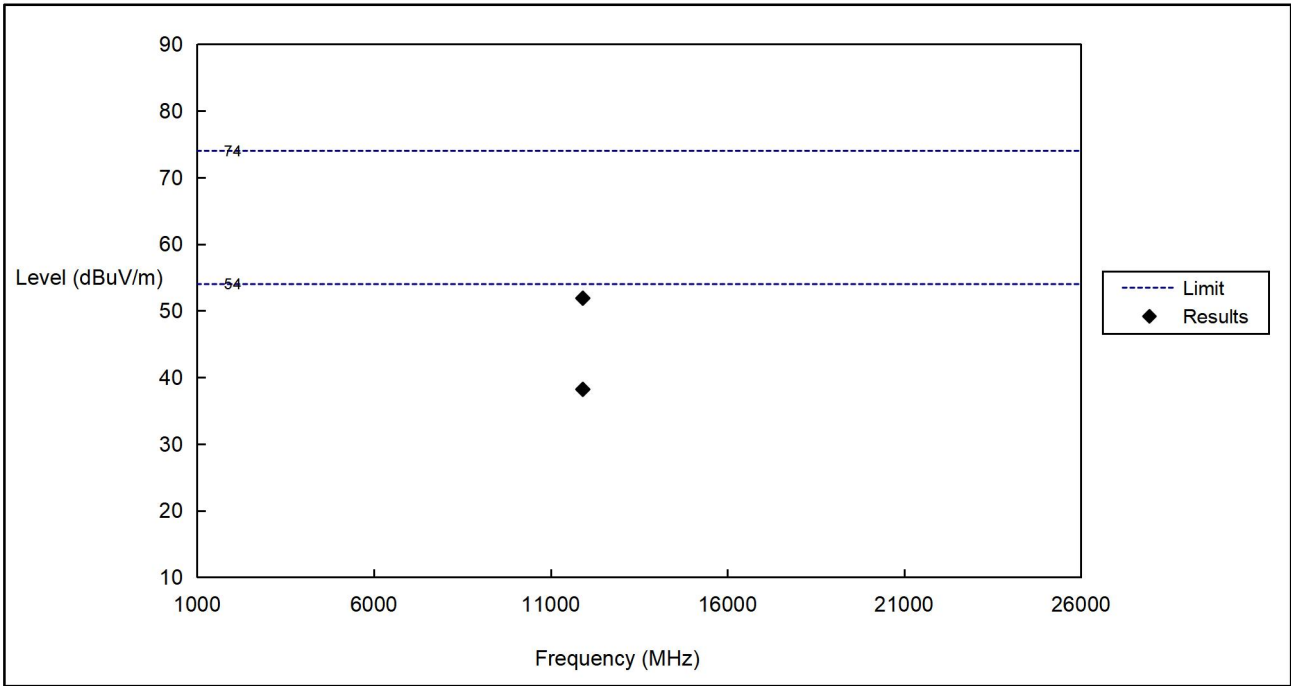
- Spurious Emissions Above 1GHz
- Antenna 1(worst case)
- For the frequency band U-NII-5:5955-6415MHz(802.11AX20)
- Harmonics And Spurious Emissions

Test mode:	Low Channel (5955MHz)	Polarity:	Horizontal
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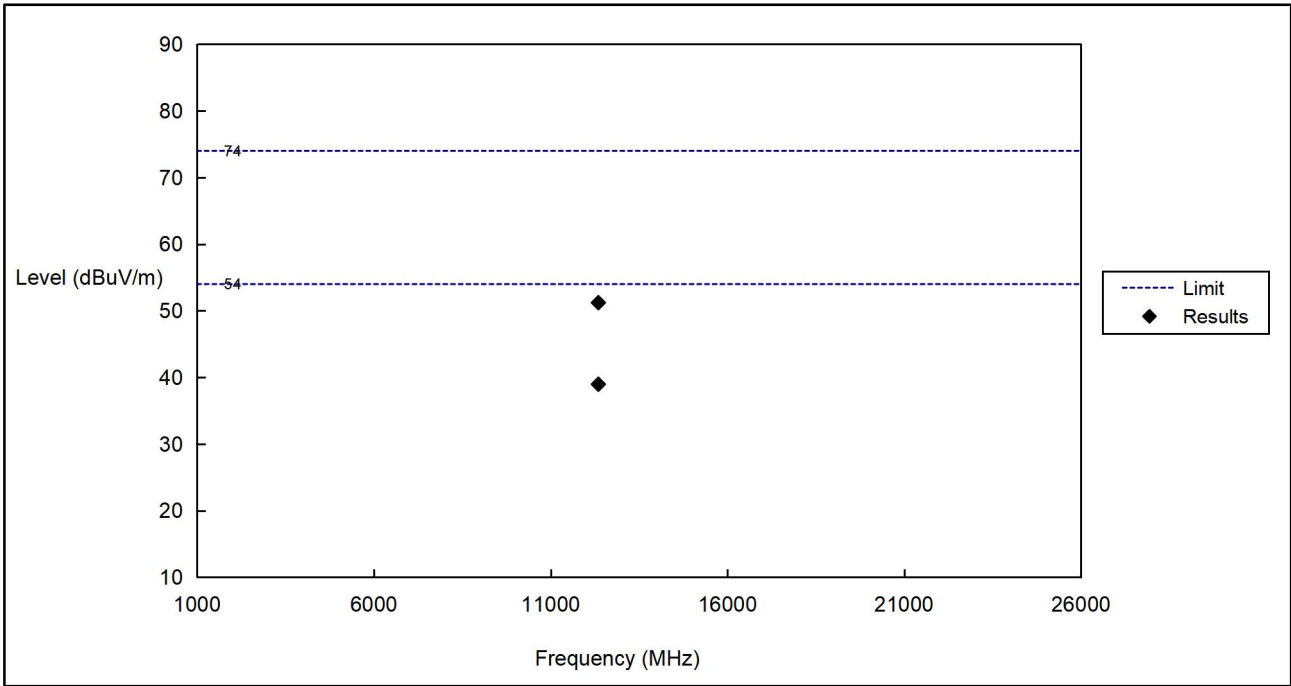
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
11910	49.92	-0.29	49.63	74	-24.37	PK
11910	42.91	-0.29	42.62	54	-11.38	AV

Test mode:	Low Channel (5955MHz)	Polarity:	Vertical
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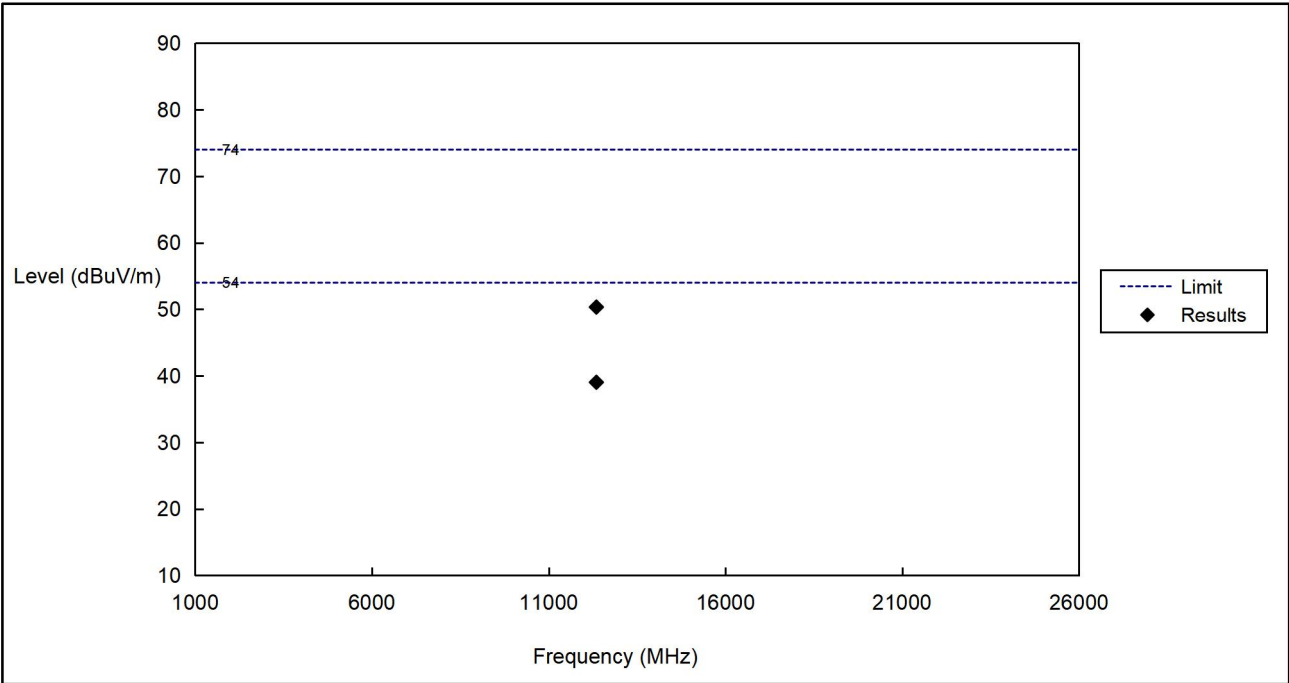
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
11910	52.17	-0.29	51.88	74	-22.12	PK
11910	38.49	-0.29	38.2	54	-15.8	AV

Test mode:	Middle Channel (6175MHz)	Polarity:	Horizontal
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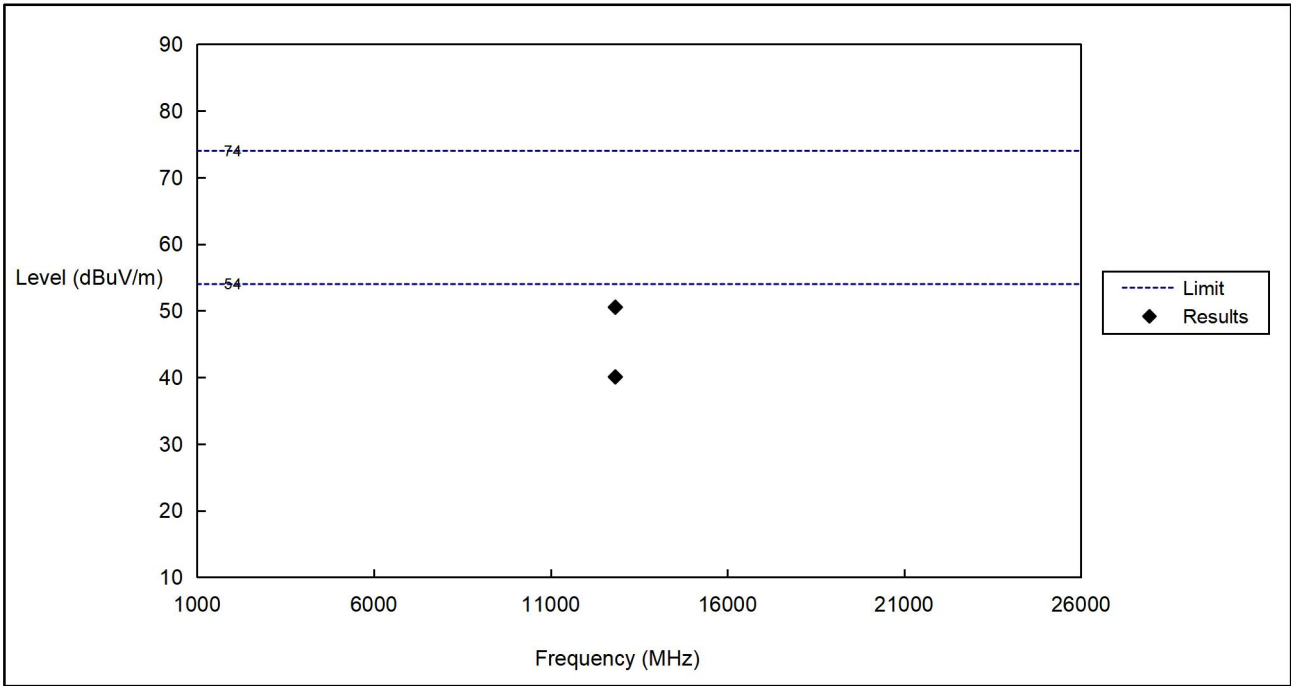
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12350	52.42	-1.21	51.21	74	-22.79	PK
12350	40.18	-1.21	38.97	54	-15.03	AV

Test mode:	Middle Channel (6175MHz)	Polarity:	Vertical
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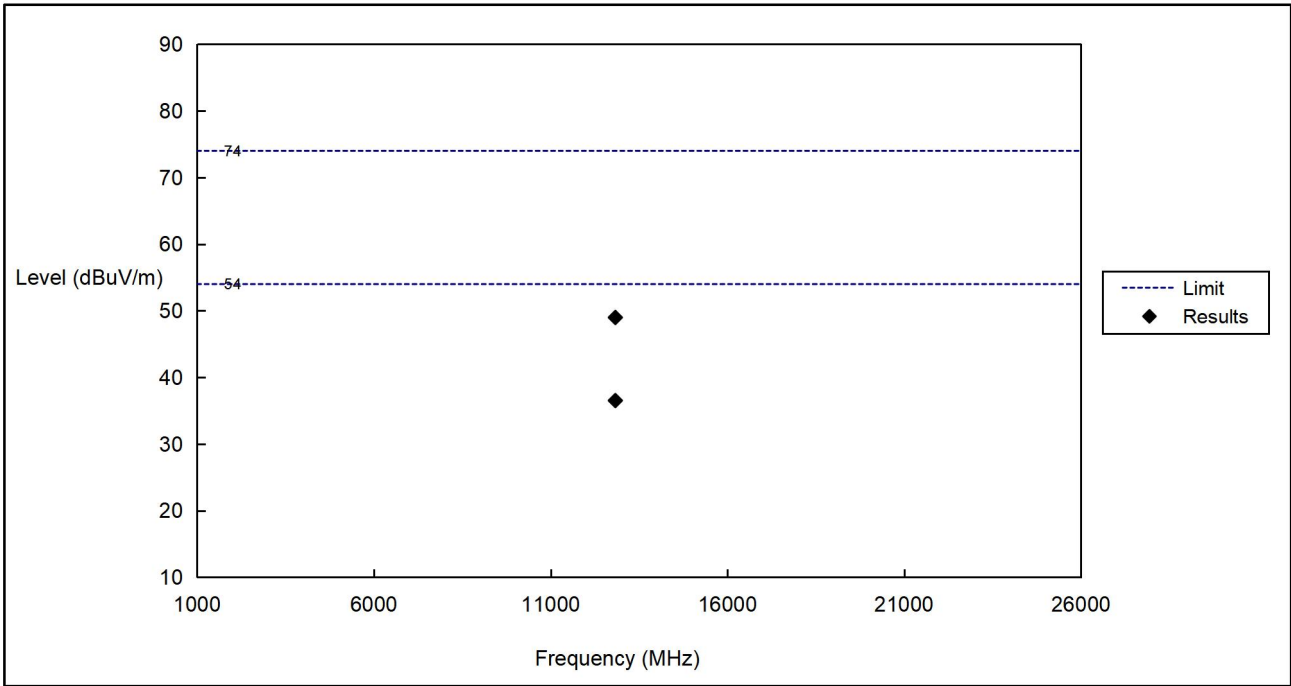
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12350	51.54	-1.21	50.33	74	-23.67	PK
12350	40.24	-1.21	39.03	54	-14.97	AV

Test mode:	High Channel (6415MHz)	Polarity:	Horizontal
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12830	52.55	-2.02	50.53	74	-23.47	PK
12830	42.09	-2.02	40.07	54	-13.93	AV

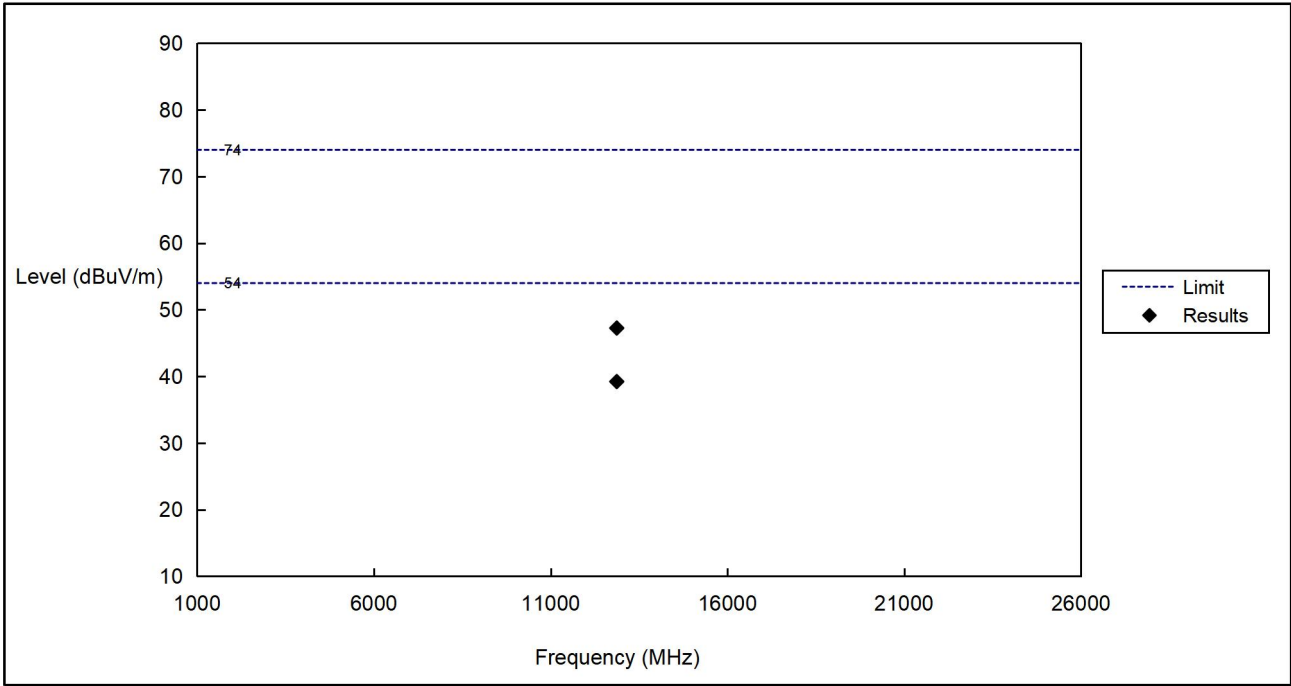
Test mode:	High Channel (6415MHz)	Polarity:	Vertical
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12830	51.01	-2.02	48.99	74	-25.01	PK
12830	38.54	-2.02	36.52	54	-17.48	AV

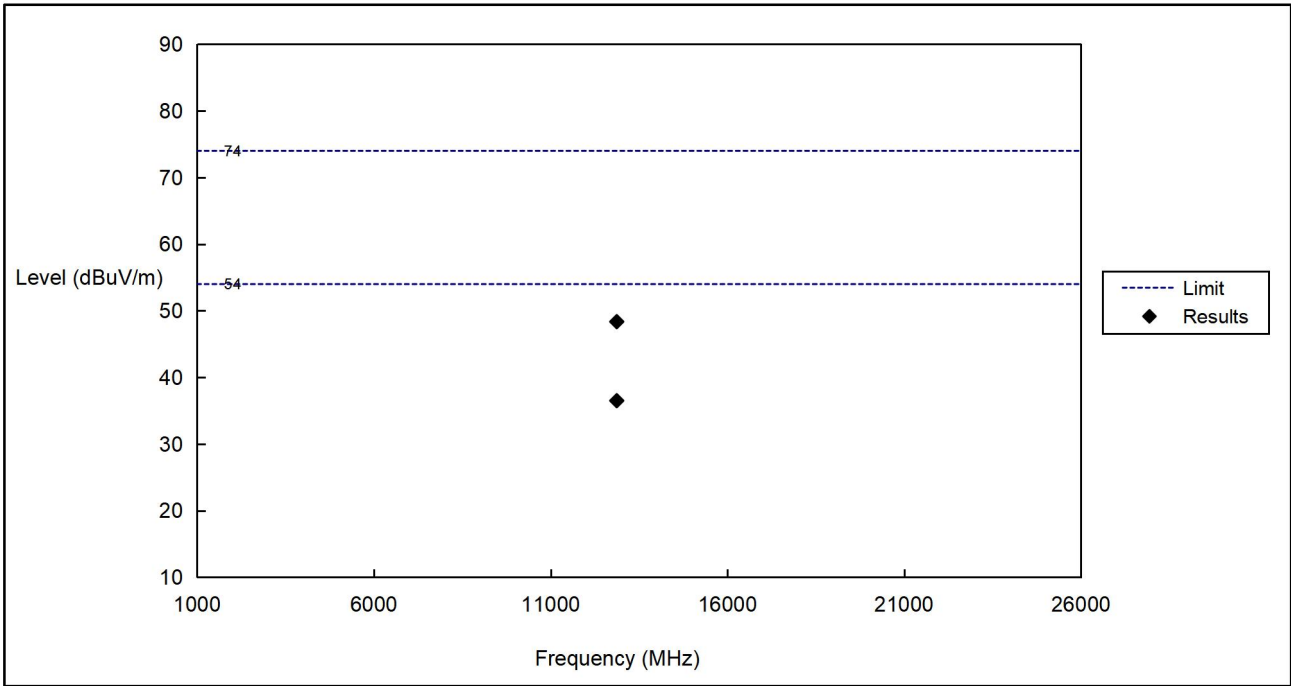
- For the frequency band U-NII-6:6435-6515MHz (802.11AX20)
- Harmonics And Spurious Emissions

Test mode:	Low Channel (6435MHz)	Polarity:	Horizontal
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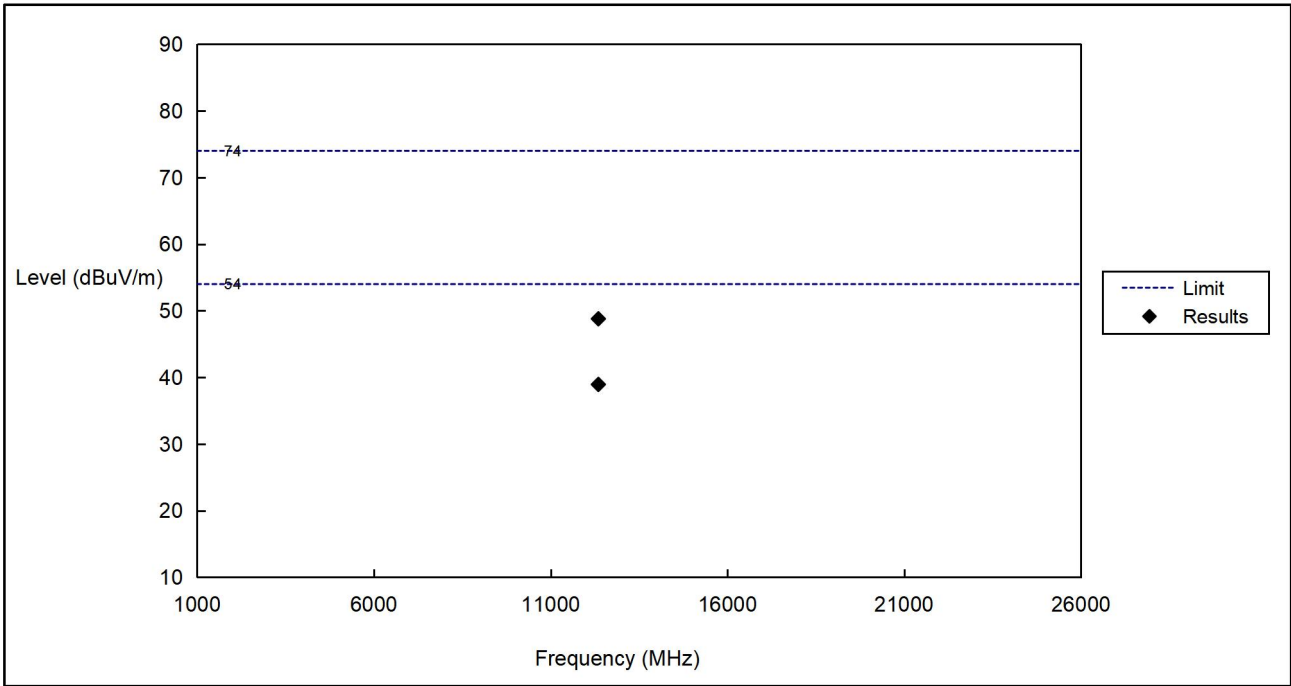
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12870	49.16	-1.91	47.25	74	-26.75	PK
12870	41.13	-1.91	39.22	54	-14.78	AV

Test mode:	Low Channel (6435MHz)	Polarity:	Vertical
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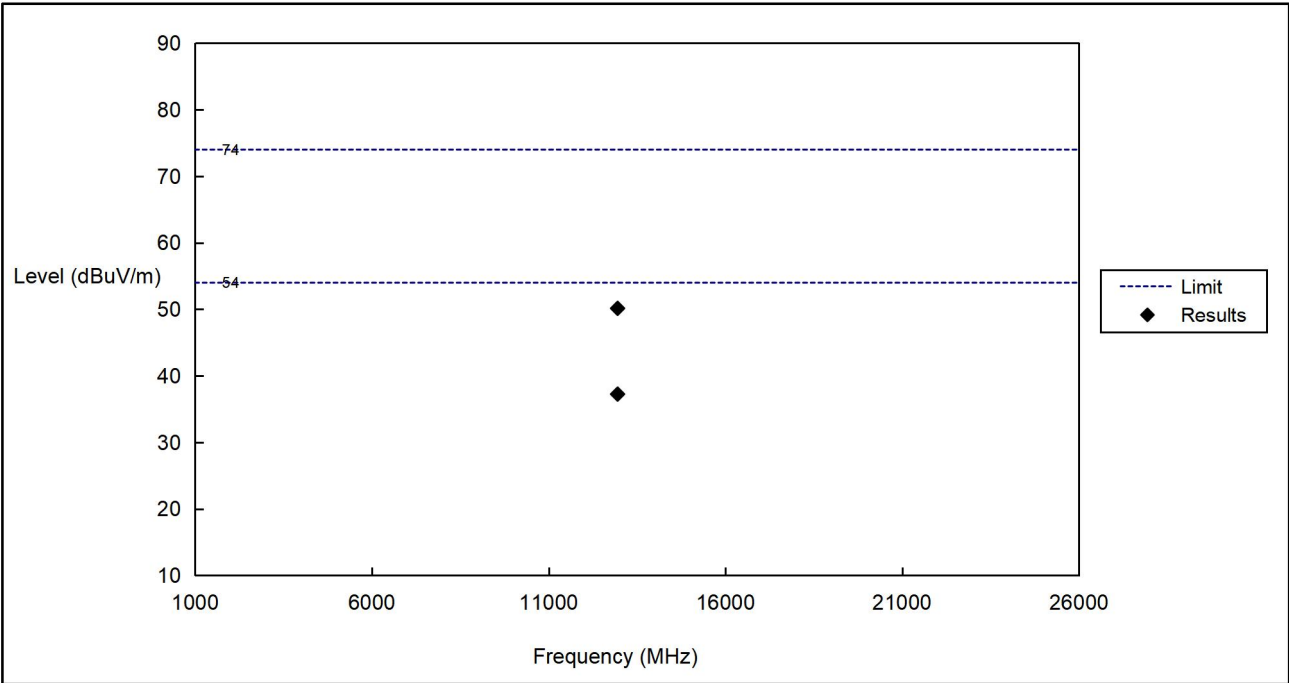
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12870	50.27	-1.91	48.36	74	-25.64	PK
12870	38.41	-1.91	36.5	54	-17.5	AV

Test mode:	Middle Channel (6475MHz)	Polarity:	Horizontal
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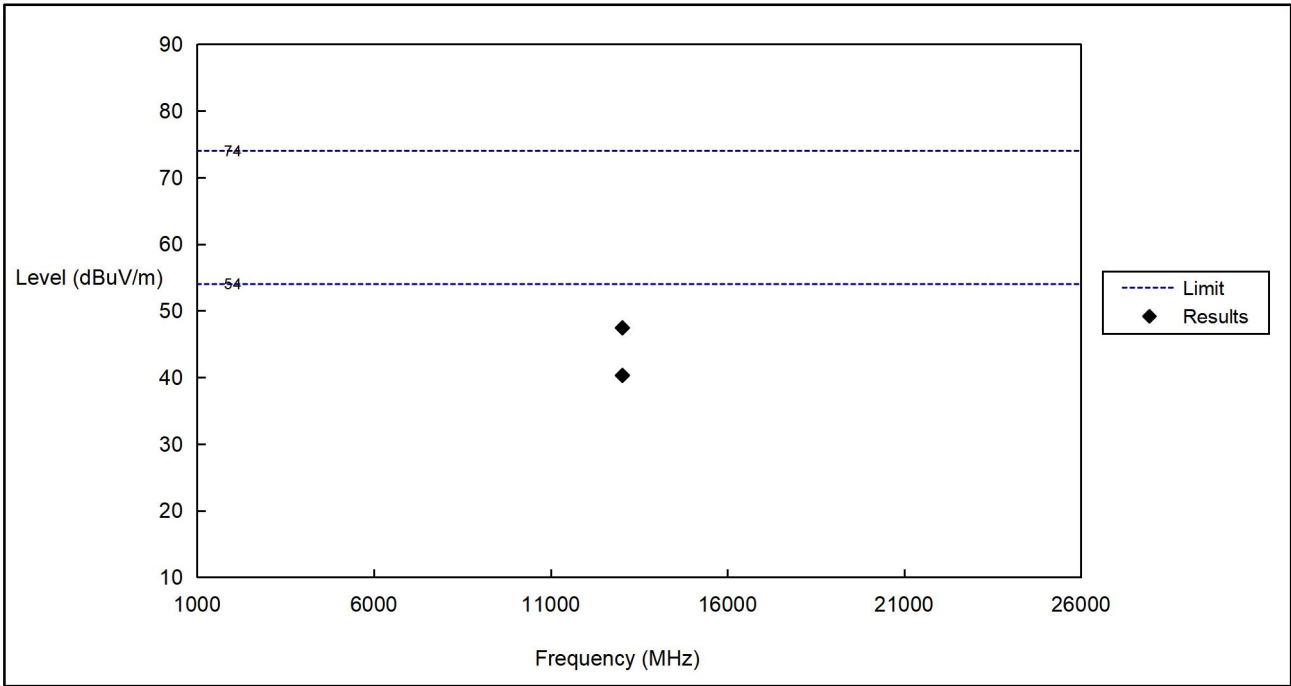
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12950	51.09	-2.30	48.79	74	-25.21	PK
12950	41.24	-2.30	38.94	54	-15.06	AV

Test mode:	Middle Channel (6475MHz)	Polarity:	Vertical
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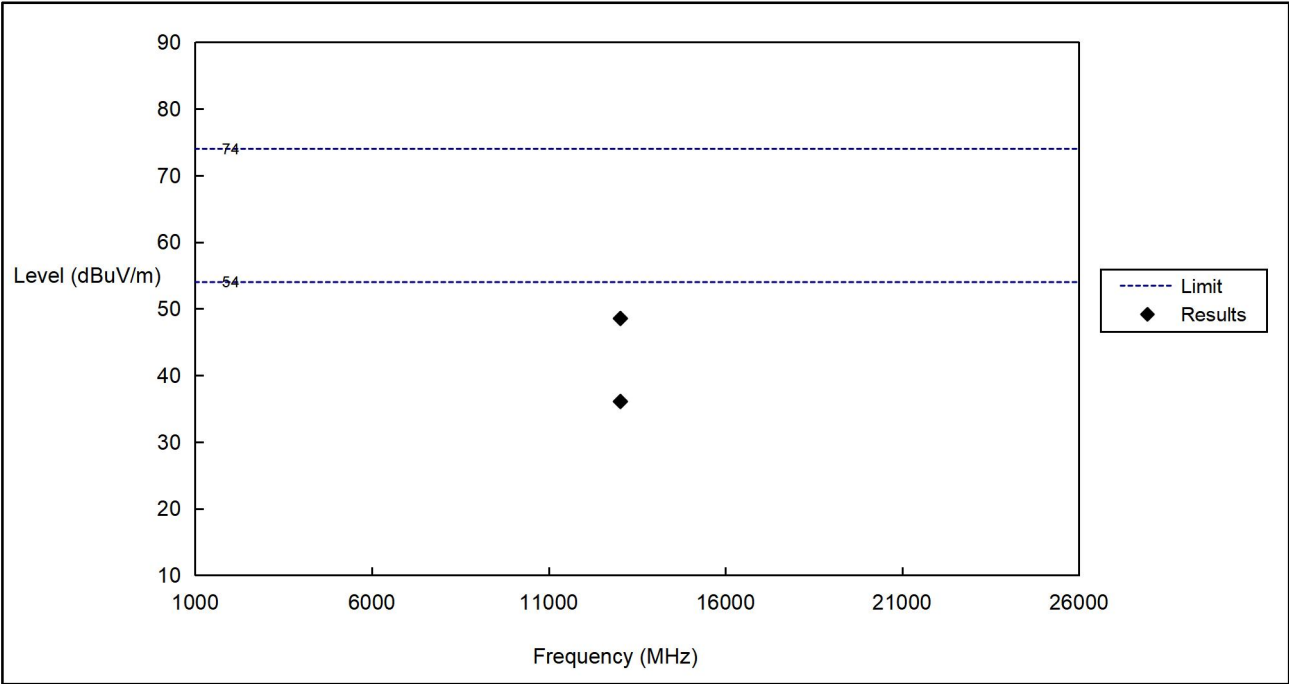
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
12950	52.44	-2.30	50.14	74	-23.86	PK
12950	39.55	-2.30	37.25	54	-16.75	AV

Test mode:	High Channel (6515MHz)	Polarity:	Horizontal
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13030	49.44	-2.68	46.76	74	-27.24	PK
13030	40.27	-2.68	37.59	54	-16.41	AV

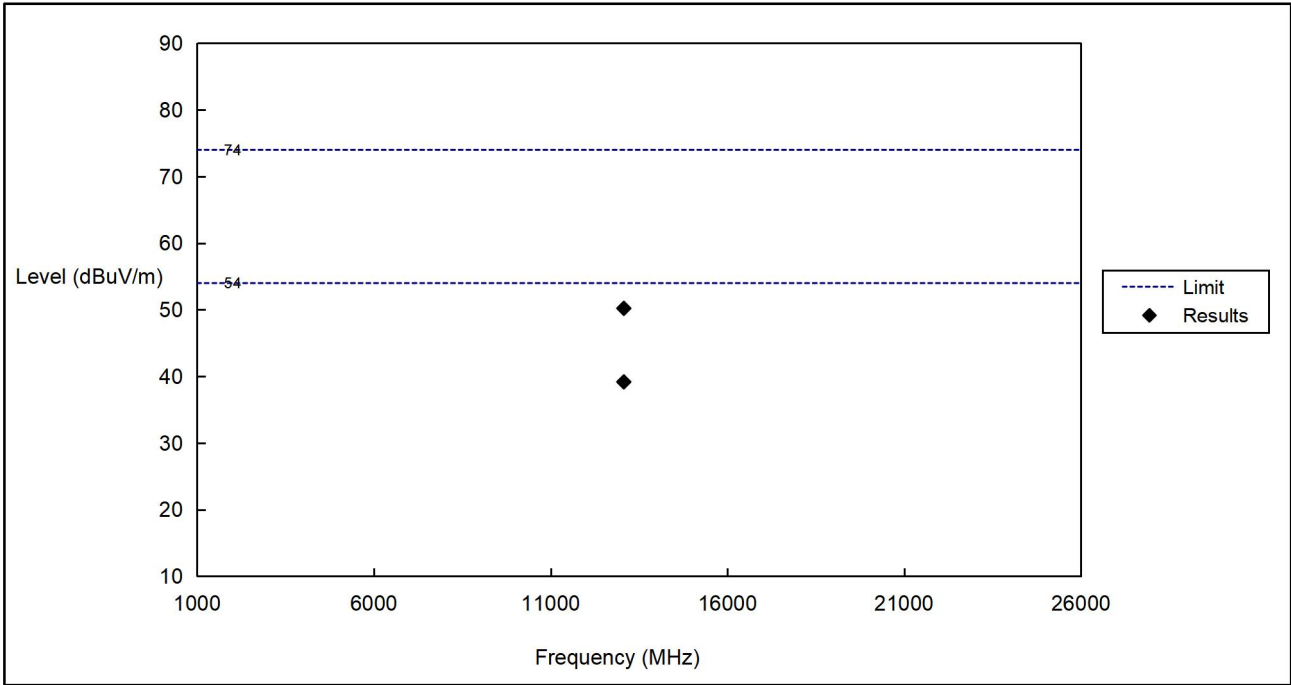
Test mode:	High Channel (6515MHz)	Polarity:	Vertical
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13030	51.22	-2.68	48.54	74	-25.46	PK
13030	38.76	-2.68	36.08	54	-17.92	AV

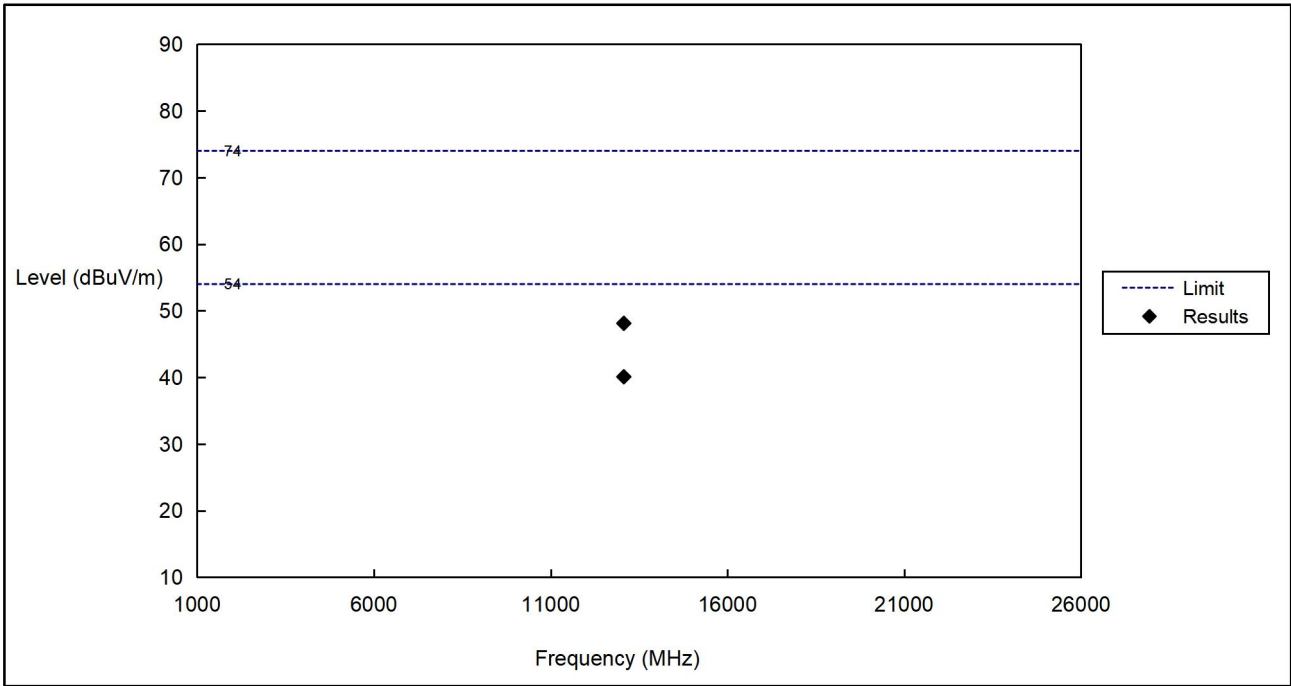
- For the frequency band U-NII-7:6535-6865MHz (802.11AX20)
- Harmonics And Spurious Emissions

Test mode:	Low Channel (6535MHz)	Polarity:	Horizontal
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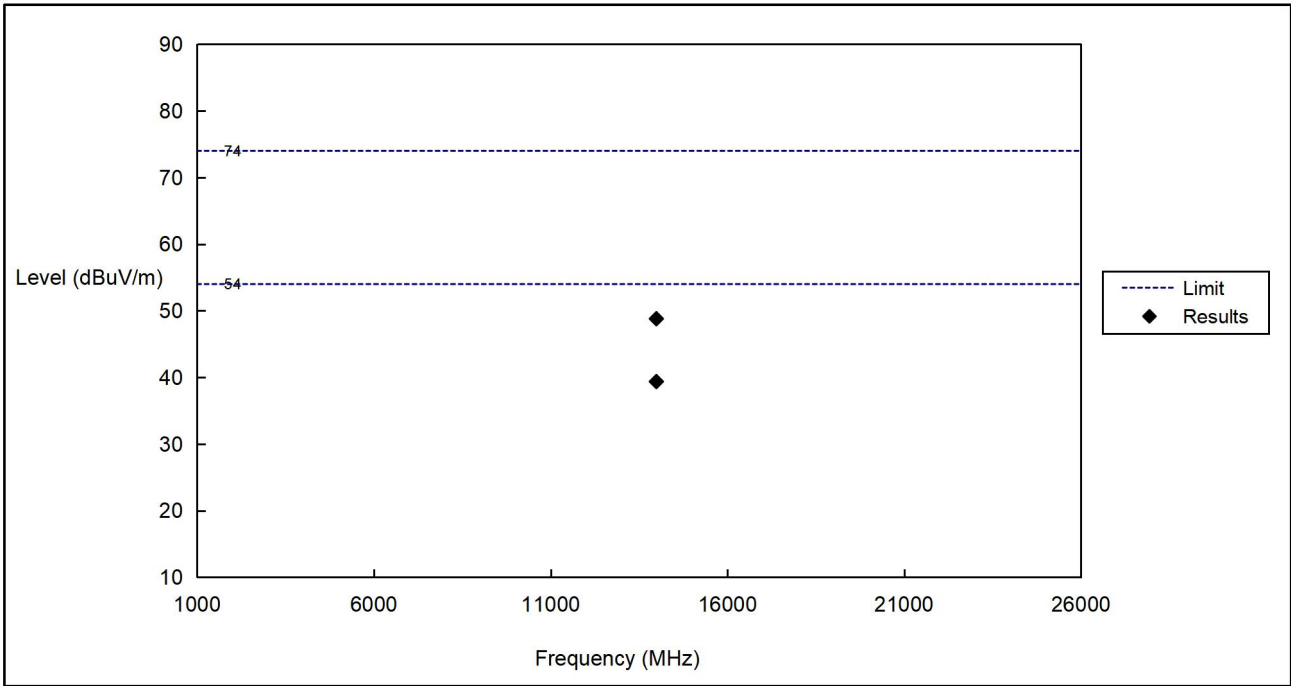
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13070	52.76	-2.55	50.21	74	-23.79	PK
13070	41.72	-2.55	39.17	54	-14.83	AV

Test mode:	Low Channel (6535MHz)	Polarity:	Vertical
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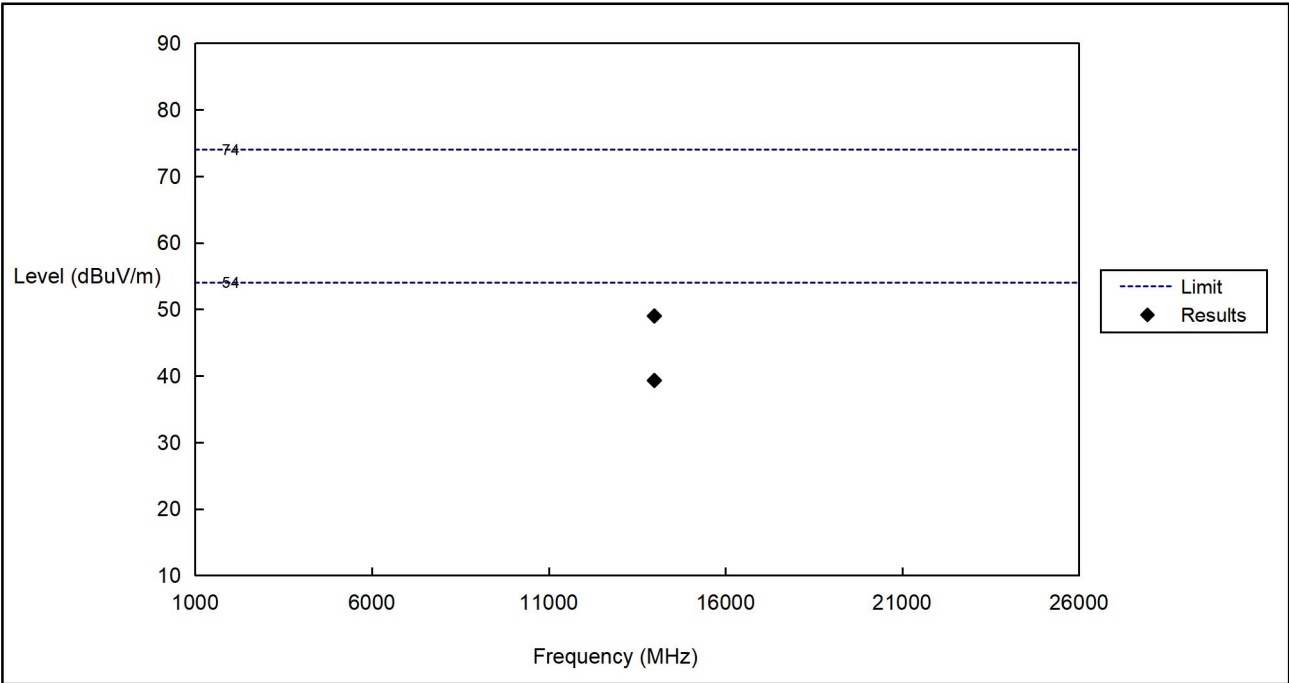
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13070	50.16	-2.55	47.61	74	-26.39	PK
13070	38.68	-2.55	36.13	54	-17.87	AV

Test mode:	Middle Channel (6695MHz)	Polarity:	Horizontal
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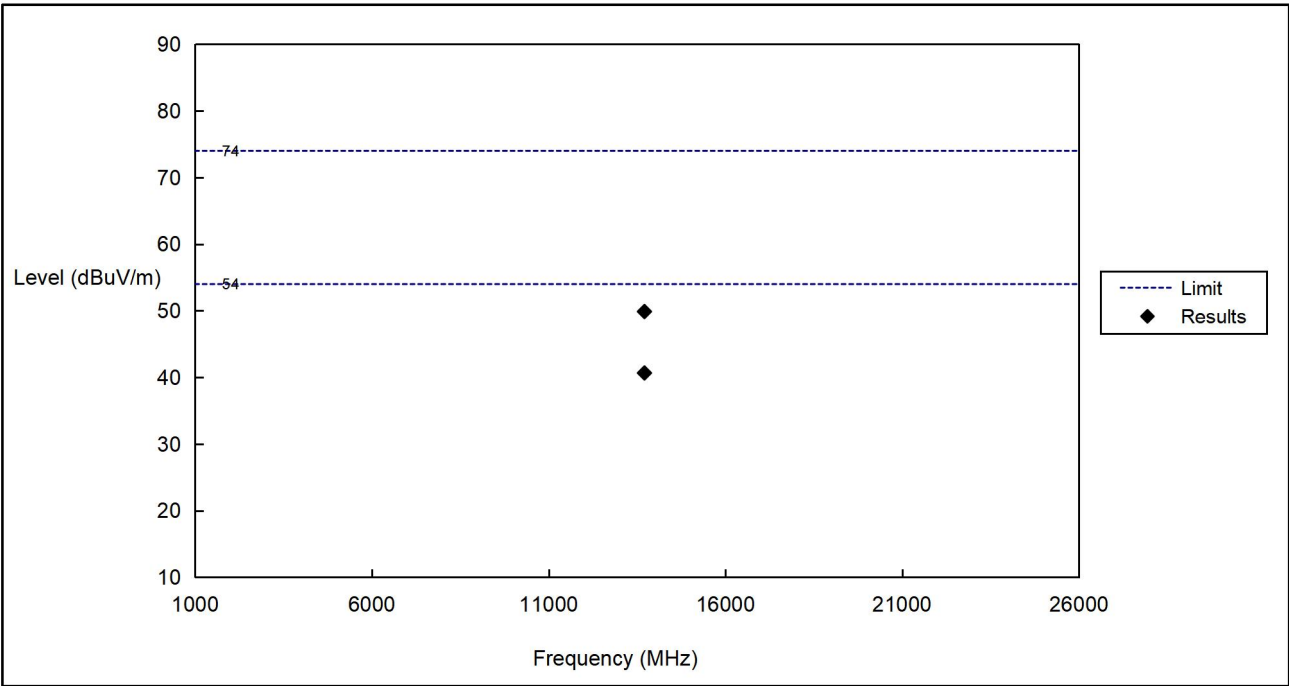
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13990	49.70	-0.90	48.80	74	-25.20	PK
13990	40.27	-0.90	39.37	54	-14.63	AV

Test mode:	Middle Channel (6695MHz)	Polarity:	Vertical
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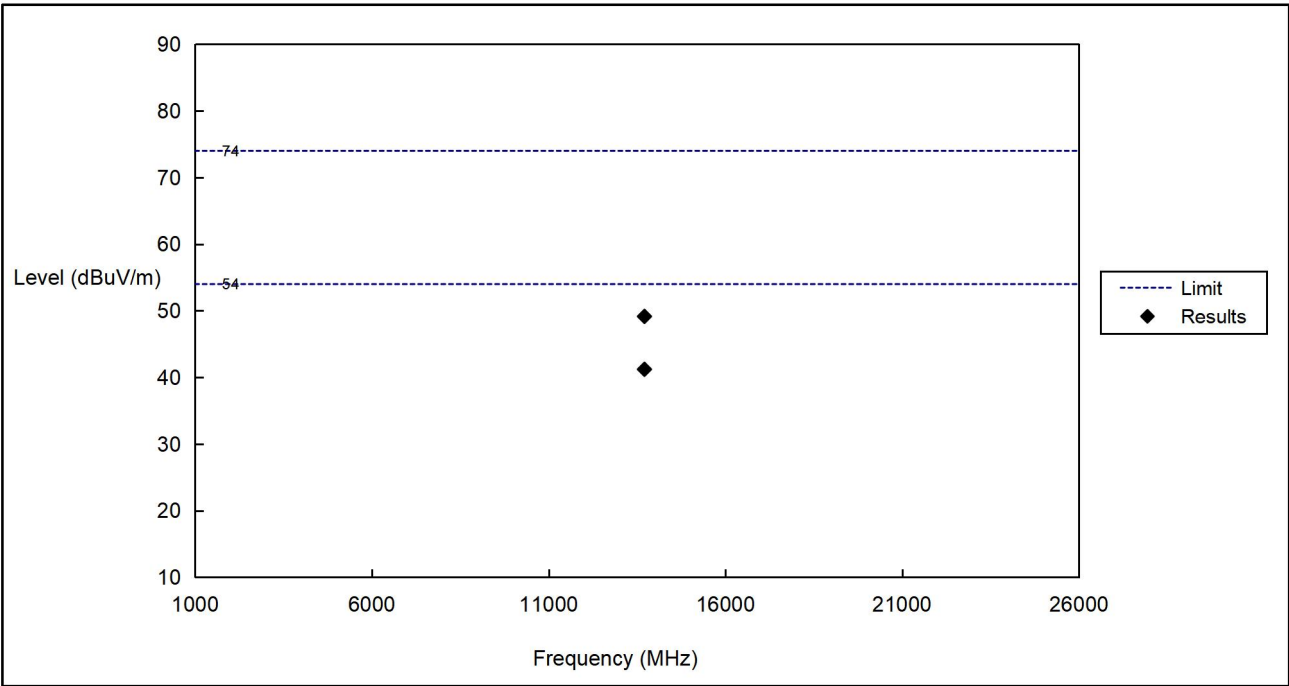
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13990	49.89	-0.90	48.99	74	-25.01	PK
13990	40.20	-0.90	39.30	54	-14.70	AV

Test mode:	High Channel (6855MHz)	Polarity:	Horizontal
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13710	50.82	-0.94	49.88	74	-24.12	PK
13710	41.60	-0.94	40.66	54	-13.34	AV

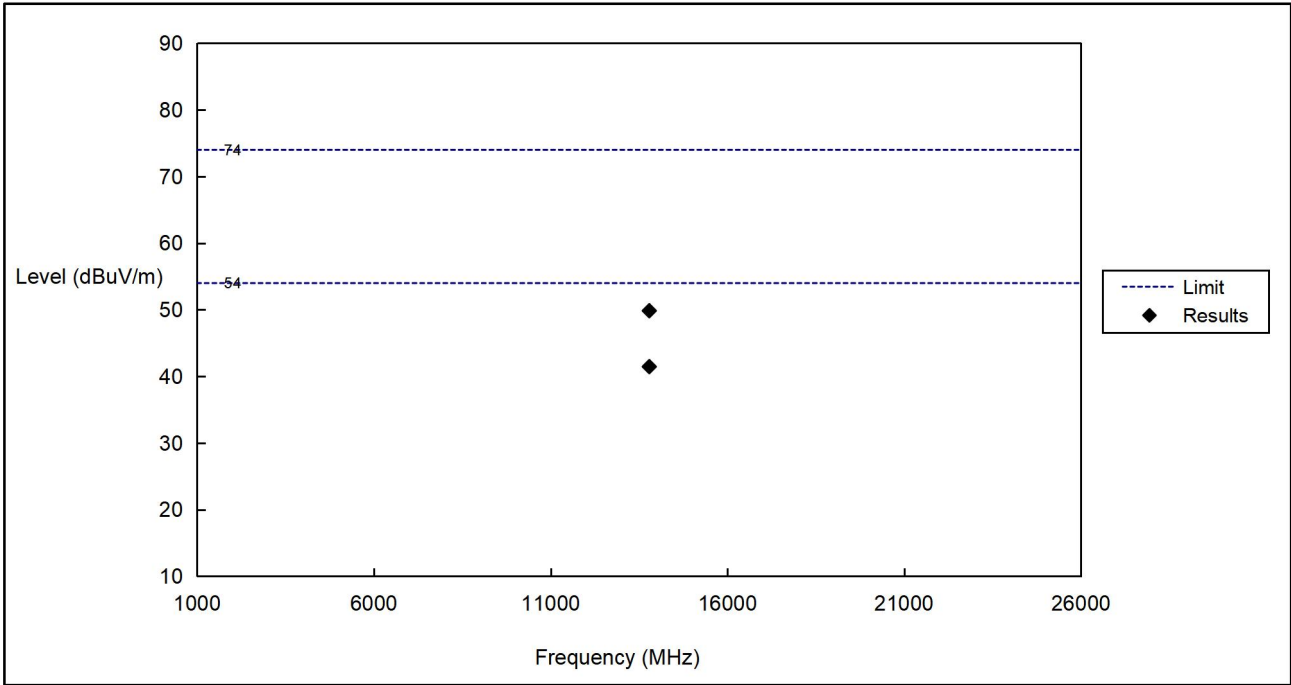
Test mode:	High Channel (6855MHz)	Polarity:	Vertical
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13710	49.17	-0.94	48.23	74	-25.77	PK
13710	38.03	-0.94	37.09	54	-16.91	AV

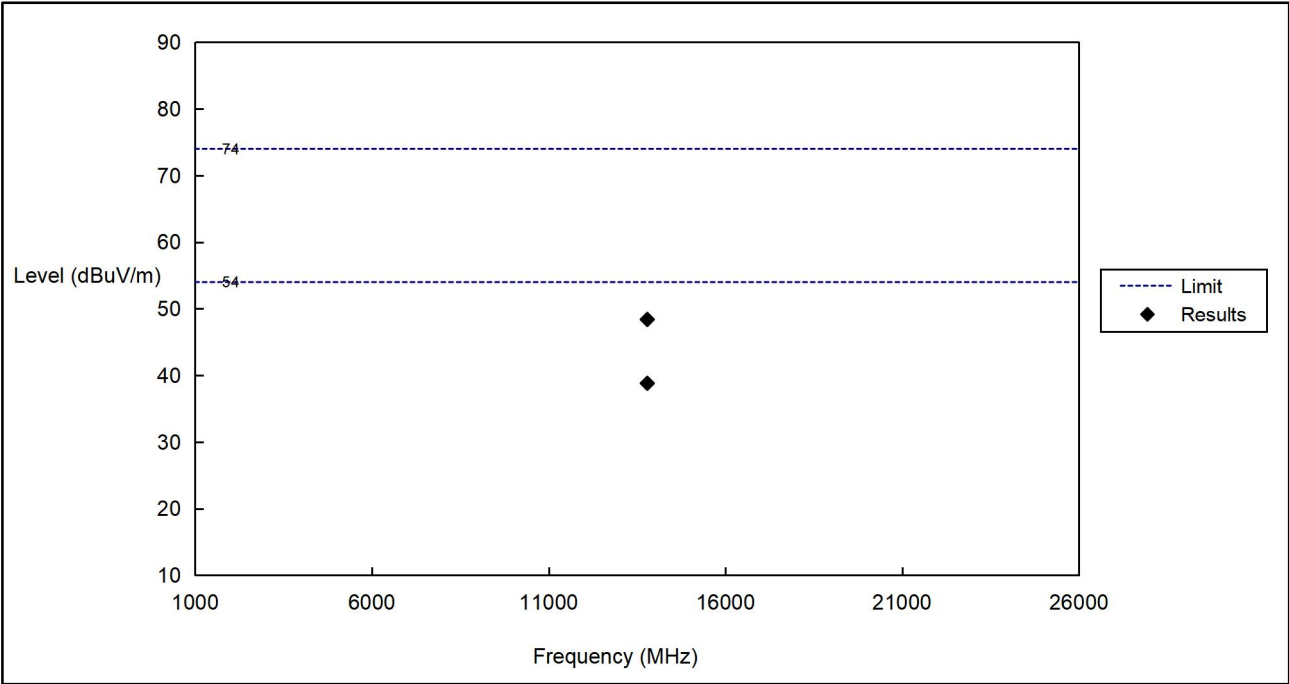
- For the frequency band U-NII-8:6885-7115MHz (802.11AX20)
- Harmonics And Spurious Emissions

Test mode:	Low Channel (6895MHz)	Polarity:	Horizontal
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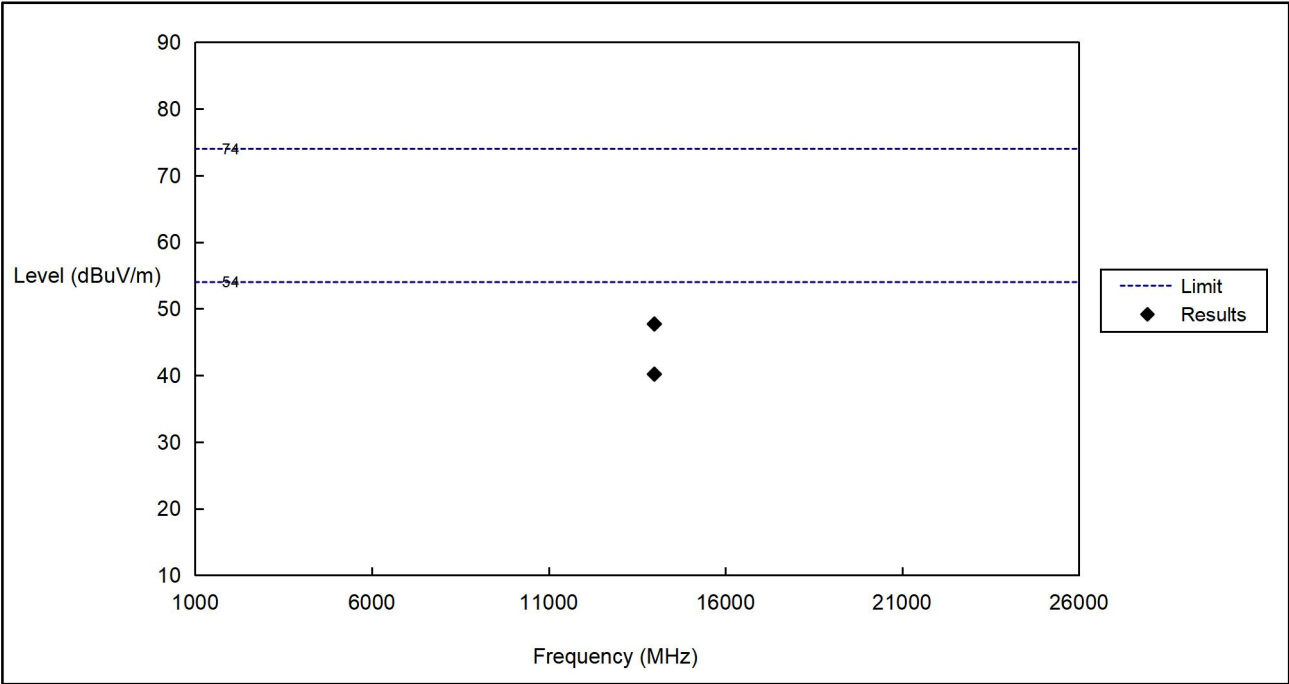
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13790	50.60	-0.75	49.85	74	-24.15	PK
13790	42.21	-0.75	41.46	54	-12.54	AV

Test mode:	Low Channel (6895MHz)	Polarity:	Vertical
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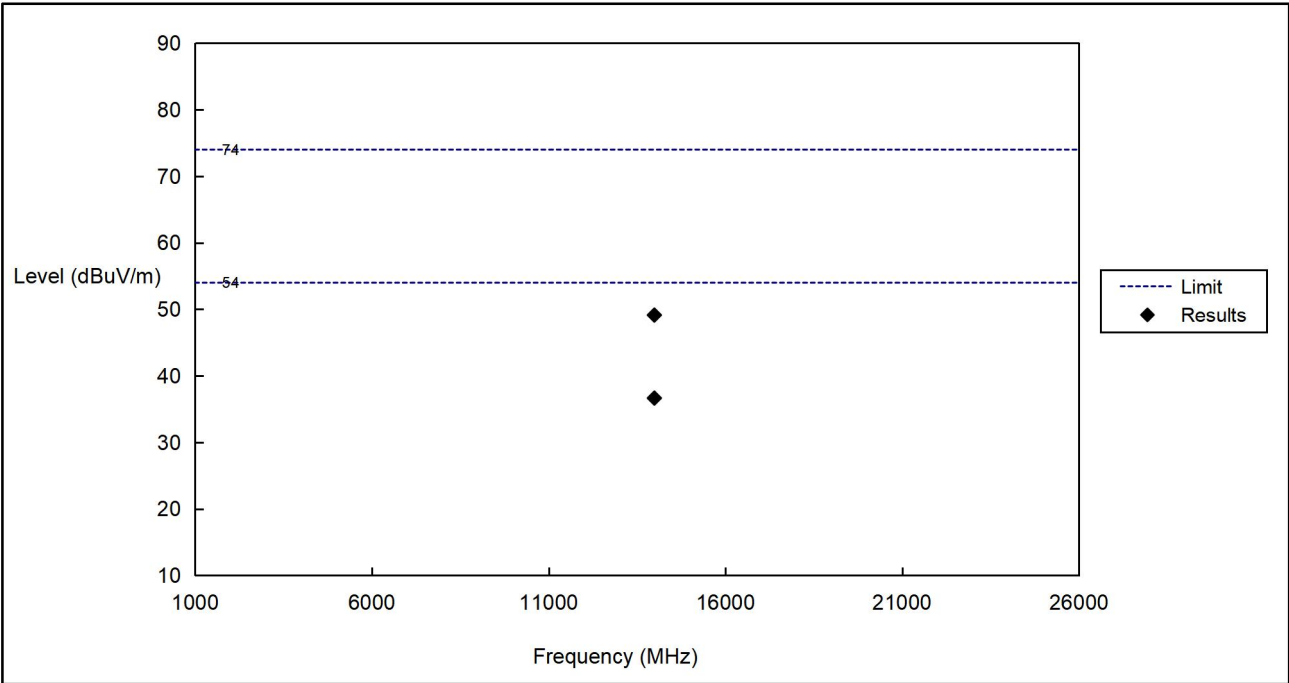
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13790	49.14	-0.75	48.39	74	-25.61	PK
13790	39.56	-0.75	38.81	54	-15.19	AV

Test mode:	Middle Channel (6995MHz)	Polarity:	Horizontal
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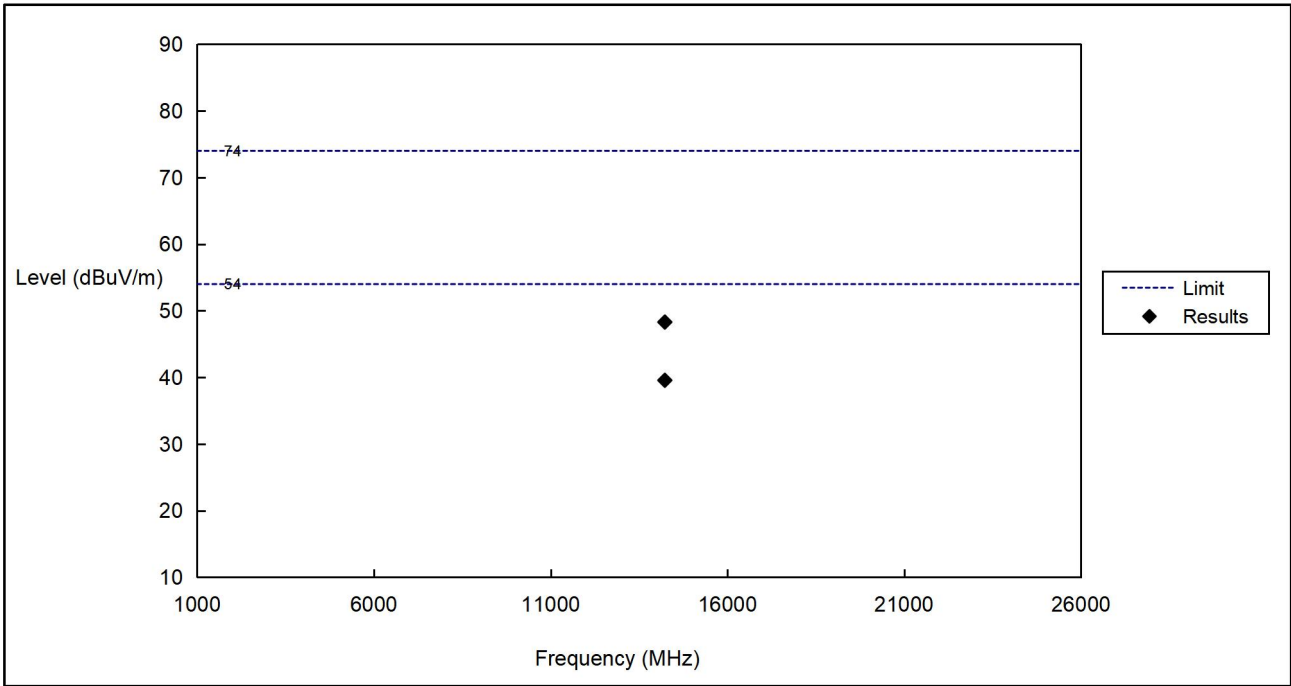
Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
13990	51.69	-1.45	50.24	74	-23.76	PK
13990	42.30	-1.45	40.85	54	-13.15	AV

Test mode:	Middle Channel (6995MHz)	Polarity:	Vertical
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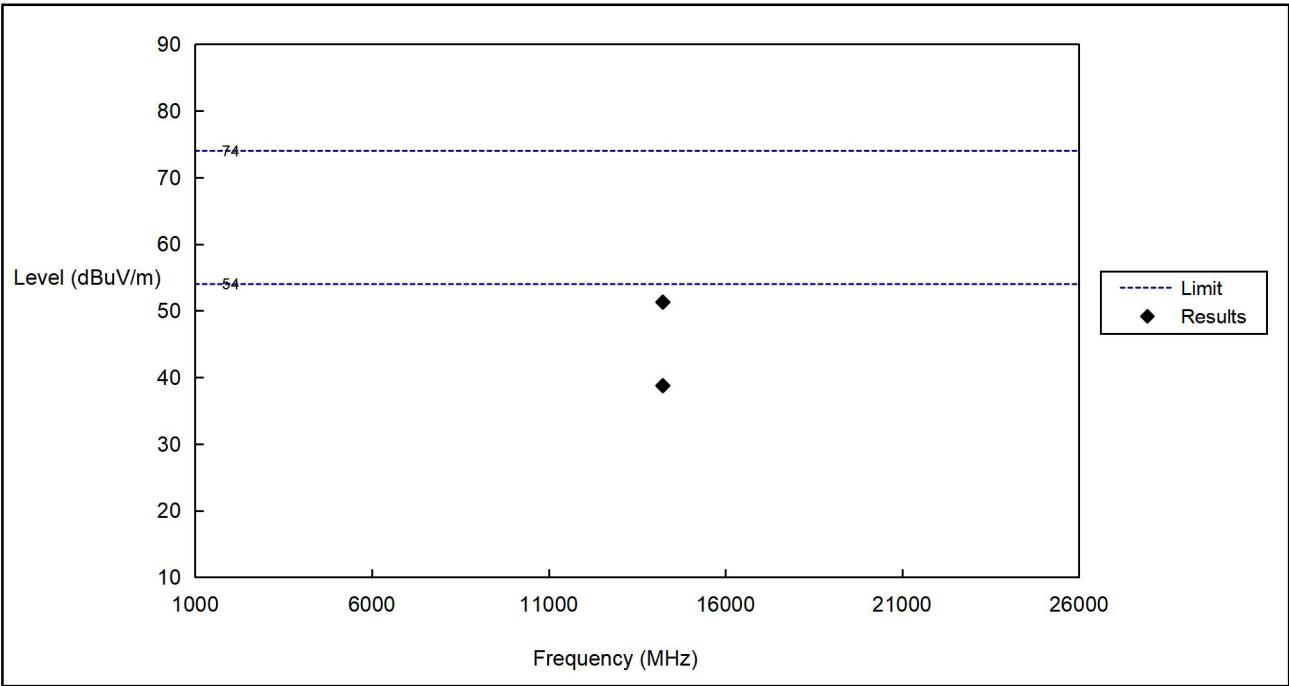
Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
13990	50.58	-1.45	49.13	74	-24.87	PK
13990	38.10	-1.45	36.65	54	-17.35	AV

Test mode:	High Channel (7115MHz)	Polarity:	Horizontal
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
14230	49.89	-1.59	48.3	74	-25.7	PK
14230	41.15	-1.59	39.56	54	-14.44	AV

Test mode:	High Channel (7115MHz)	Polarity:	Vertical
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Frequency	Reading	Correct	Result	Limit	Margin	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	
14230	52.88	-1.59	51.29	74	-22.71	PK
14230	40.34	-1.59	38.75	54	-15.25	AV

Note: Testing is carried out with frequency rang 9kHz to 40Ghz, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Conducted Spurious Emission Please refer to Appendix F

10. Frequency Stability

10.1 Standard Applicable

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user manual.

10.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

10.3 Summary of Test Results/Plots

Please refer to Appendix H

11. Contention Based Protocol

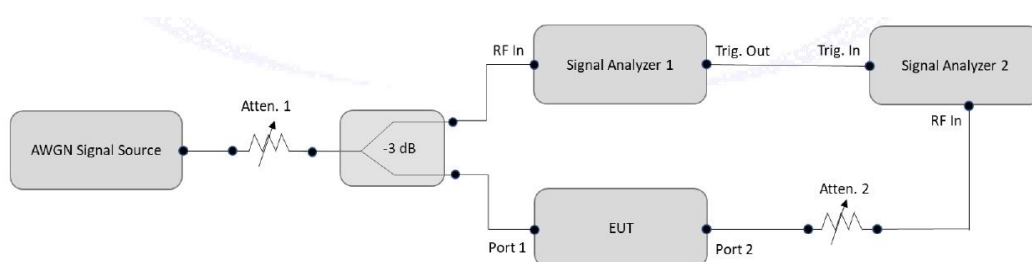
11.1 Standard Applicable

According to §15.407(d).

11.2 Test Procedure

According to KDB 987597 D02v03, Conducted Setup Procedure as:

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 receive 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 -62dBm 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 (RFON) 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.



11.3 Summary of Test Results/Plots

Please refer to Appendix G

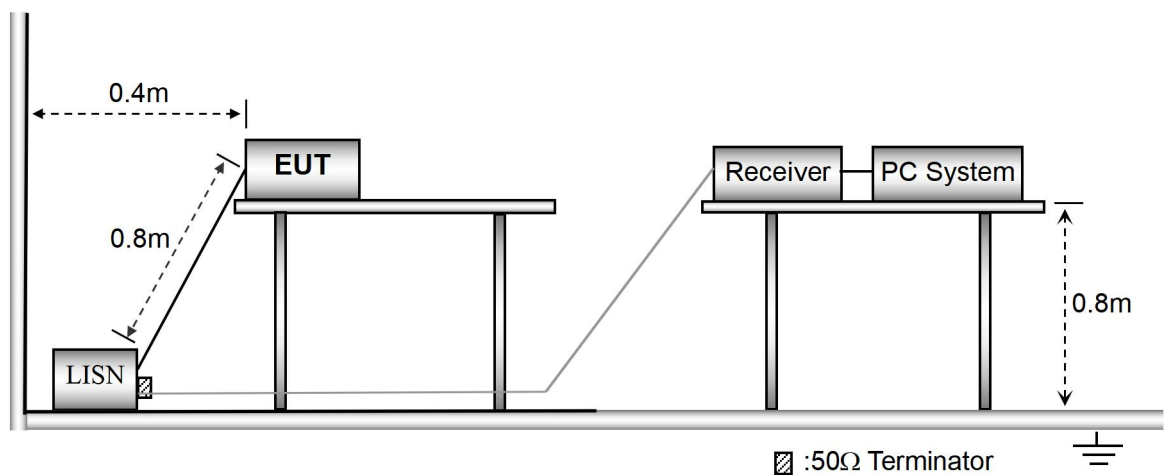
12. Conducted Emissions

12.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

12.2 Basic Test Setup Block Diagram



12.3 Test Receiver Setup

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

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

12.4 Summary of Test Results/Plots

Not applicable

APPENDIX SUMMARY

Project No.	WTX26X06187946W001	Test Engineer	BAldi Zhong
Start date	2026/7/23	Finish date	2026/9/20
Temperature	22.6℃	Humidity	57%
RF specifications	WiFi-6G		

APPENDIX	Description of Test Item	Result
A1	Emission Bandwidth	Compliant
A2	Occupied channel bandwidth	Compliant
B	Duty Cycle	Compliant
C	Maximum conducted output power	Compliant
D	Maximum power spectral density	Compliant
E	InBand Emissions	Compliant
F	Conducted Spurious Emission	Compliant
G	Contention Based Protocol	Compliant
H	Frequency Stability	Compliant

Appendix A1: Emission Bandwidth**Test Result**

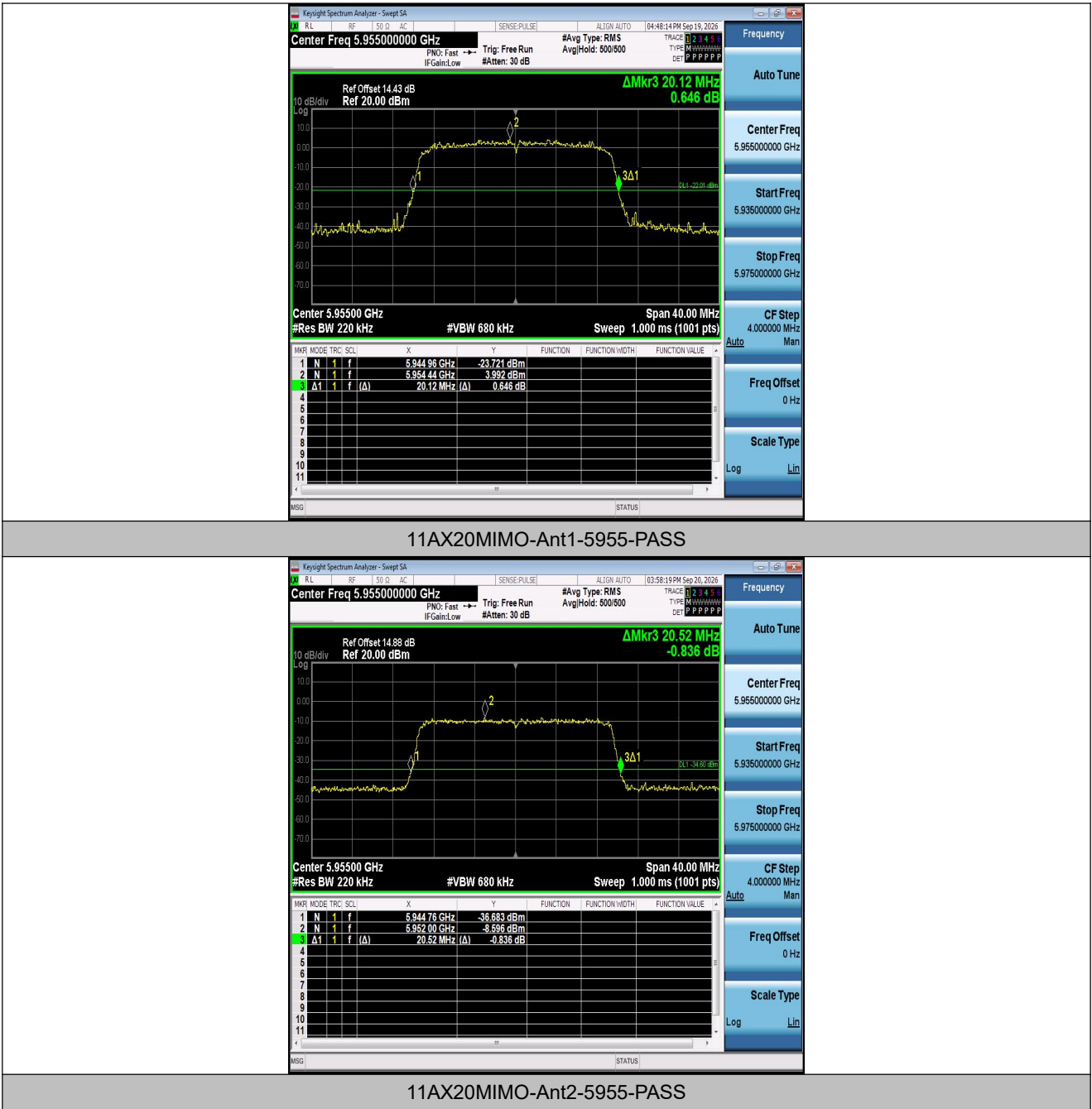
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	20.120	5944.960	5965.080	---	PASS
11AX20MIMO	Ant2	5955	20.520	5944.760	5965.280	---	PASS
11AX20MIMO	Ant1	6115	20.480	6104.840	6125.320	---	PASS
11AX20MIMO	Ant2	6115	20.520	6104.720	6125.240	---	PASS
11AX20MIMO	Ant1	6175	20.440	6164.840	6185.280	---	PASS
11AX20MIMO	Ant2	6175	20.360	6164.800	6185.160	---	PASS
11AX20MIMO	Ant1	6255	20.520	6244.800	6265.320	---	PASS
11AX20MIMO	Ant2	6255	20.160	6244.960	6265.120	---	PASS
11AX20MIMO	Ant1	6415	20.120	6405.000	6425.120	---	PASS
11AX20MIMO	Ant2	6415	20.480	6404.840	6425.320	---	PASS
11AX20MIMO	Ant1	6435	20.080	6425.000	6445.080	---	PASS
11AX20MIMO	Ant2	6435	20.320	6424.840	6445.160	---	PASS
11AX20MIMO	Ant1	6475	20.120	6465.000	6485.120	---	PASS
11AX20MIMO	Ant2	6475	20.200	6464.960	6485.160	---	PASS
11AX20MIMO	Ant1	6515	20.120	6505.000	6525.120	---	PASS
11AX20MIMO	Ant2	6515	20.200	6504.920	6525.120	---	PASS
11AX20MIMO	Ant1	6535	20.000	6525.040	6545.040	---	PASS
11AX20MIMO	Ant2	6535	20.440	6524.880	6545.320	---	PASS
11AX20MIMO	Ant1	6695	20.000	6685.000	6705.000	---	PASS
11AX20MIMO	Ant2	6695	20.160	6684.960	6705.120	---	PASS
11AX20MIMO	Ant1	6855	20.000	6845.120	6865.120	---	PASS
11AX20MIMO	Ant2	6855	20.320	6844.960	6865.280	---	PASS
11AX20MIMO	Ant1	6875	20.000	6865.000	6885.000	---	PASS
11AX20MIMO	Ant2	6875	20.280	6864.960	6885.240	---	PASS
11AX20MIMO	Ant1	6895	20.080	6885.040	6905.120	---	PASS
11AX20MIMO	Ant2	6895	20.240	6884.840	6905.080	---	PASS
11AX20MIMO	Ant1	6995	20.200	6984.960	7005.160	---	PASS
11AX20MIMO	Ant2	6995	20.280	6984.920	7005.200	---	PASS
11AX20MIMO	Ant1	7115	20.160	7104.960	7125.120	---	PASS
11AX20MIMO	Ant2	7115	20.160	7104.960	7125.120	---	PASS
11AX40MIMO	Ant1	5965	39.360	5945.400	5984.760	---	PASS
11AX40MIMO	Ant2	5965	39.440	5945.400	5984.840	---	PASS
11AX40MIMO	Ant1	6125	39.680	6105.160	6144.840	---	PASS
11AX40MIMO	Ant2	6125	39.520	6105.320	6144.840	---	PASS
11AX40MIMO	Ant1	6165	39.760	6145.160	6184.920	---	PASS
11AX40MIMO	Ant2	6165	39.760	6145.240	6185.000	---	PASS
11AX40MIMO	Ant1	6405	39.760	6385.240	6425.000	---	PASS

11AX40MIMO	Ant2	6405	39.680	6385.160	6424.840	---	PASS
11AX40MIMO	Ant1	6445	39.840	6425.240	6465.080	---	PASS
11AX40MIMO	Ant2	6445	39.600	6425.240	6464.840	---	PASS
11AX40MIMO	Ant1	6485	39.760	6465.160	6504.920	---	PASS
11AX40MIMO	Ant2	6485	39.680	6465.160	6504.840	---	PASS
11AX40MIMO	Ant1	6525	39.600	6505.240	6544.840	---	PASS
11AX40MIMO	Ant2	6525	39.680	6505.160	6544.840	---	PASS
11AX40MIMO	Ant1	6565	39.840	6545.160	6585.000	---	PASS
11AX40MIMO	Ant2	6565	39.440	6545.320	6584.760	---	PASS
11AX40MIMO	Ant1	6685	39.600	6665.320	6704.920	---	PASS
11AX40MIMO	Ant2	6685	39.680	6665.080	6704.760	---	PASS
11AX40MIMO	Ant1	6845	39.760	6825.240	6865.000	---	PASS
11AX40MIMO	Ant2	6845	39.440	6825.320	6864.760	---	PASS
11AX40MIMO	Ant1	6885	39.440	6865.400	6904.840	---	PASS
11AX40MIMO	Ant2	6885	39.760	6865.240	6905.000	---	PASS
11AX40MIMO	Ant1	6925	39.280	6905.480	6944.760	---	PASS
11AX40MIMO	Ant2	6925	39.600	6905.320	6944.920	---	PASS
11AX40MIMO	Ant1	6965	39.440	6945.400	6984.840	---	PASS
11AX40MIMO	Ant2	6965	39.600	6945.240	6984.840	---	PASS
11AX40MIMO	Ant1	7085	39.520	7065.240	7104.760	---	PASS
11AX40MIMO	Ant2	7085	39.680	7065.160	7104.840	---	PASS
11AX80MIMO	Ant1	5985	81.760	5944.200	6025.960	---	PASS
11AX80MIMO	Ant2	5985	82.240	5944.040	6026.280	---	PASS
11AX80MIMO	Ant1	6145	82.240	6104.040	6186.280	---	PASS
11AX80MIMO	Ant2	6145	82.080	6104.040	6186.120	---	PASS
11AX80MIMO	Ant1	6385	82.400	6344.040	6426.440	---	PASS
11AX80MIMO	Ant2	6385	82.240	6343.880	6426.120	---	PASS
11AX80MIMO	Ant1	6465	82.400	6423.880	6506.280	---	PASS
11AX80MIMO	Ant2	6465	81.920	6424.040	6505.960	---	PASS
11AX80MIMO	Ant1	6545	82.080	6504.200	6586.280	---	PASS
11AX80MIMO	Ant2	6545	82.080	6504.040	6586.120	---	PASS
11AX80MIMO	Ant1	6625	81.920	6584.360	6666.280	---	PASS
11AX80MIMO	Ant2	6625	82.560	6583.720	6666.280	---	PASS
11AX80MIMO	Ant1	6705	82.560	6664.040	6746.600	---	PASS
11AX80MIMO	Ant2	6705	82.080	6664.040	6746.120	---	PASS
11AX80MIMO	Ant1	6785	81.920	6744.200	6826.120	---	PASS
11AX80MIMO	Ant2	6785	81.920	6744.200	6826.120	---	PASS
11AX80MIMO	Ant1	6865	82.080	6824.200	6906.280	---	PASS
11AX80MIMO	Ant2	6865	82.240	6824.040	6906.280	---	PASS
11AX80MIMO	Ant1	6945	82.080	6904.040	6986.120	---	PASS
11AX80MIMO	Ant2	6945	81.920	6904.040	6985.960	---	PASS

Reference No.: WTX26X06187946W001

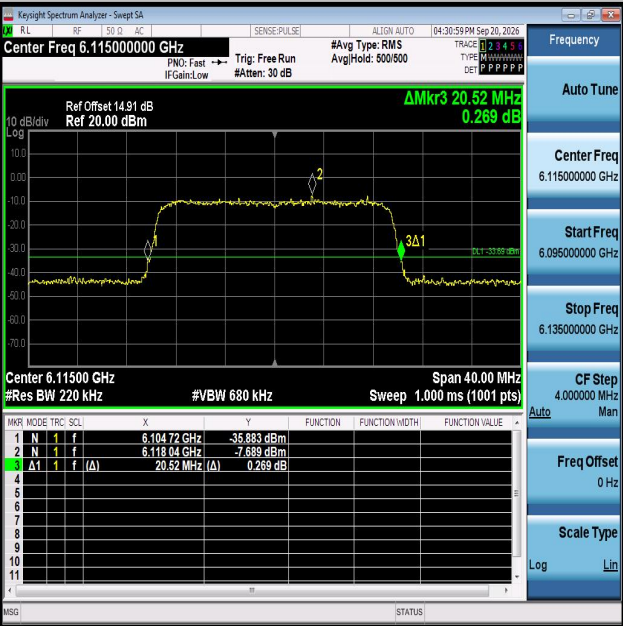
11AX80MIMO	Ant1	7025	81.760	6984.360	7066.120	---	PASS
11AX80MIMO	Ant2	7025	82.240	6984.040	7066.280	---	PASS

Test Graphs

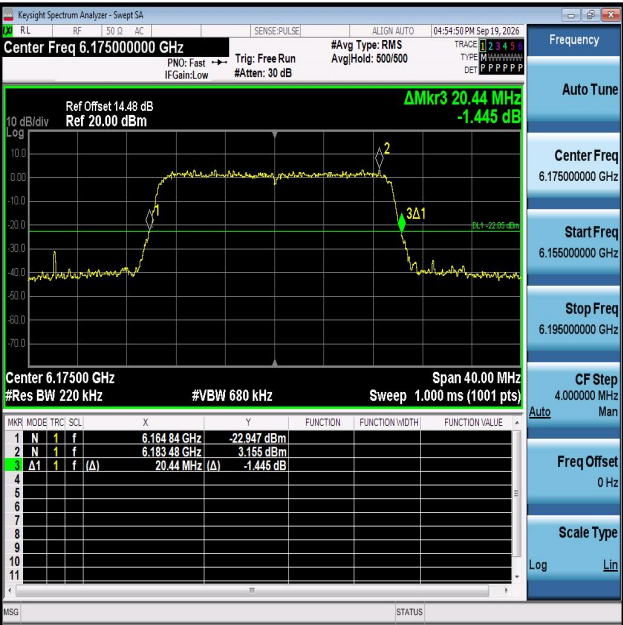




11AX20MIMO-Ant1-6115-PASS



11AX20MIMO-Ant2-6115-PASS



11AX20MIMO-Ant1-6175-PASS



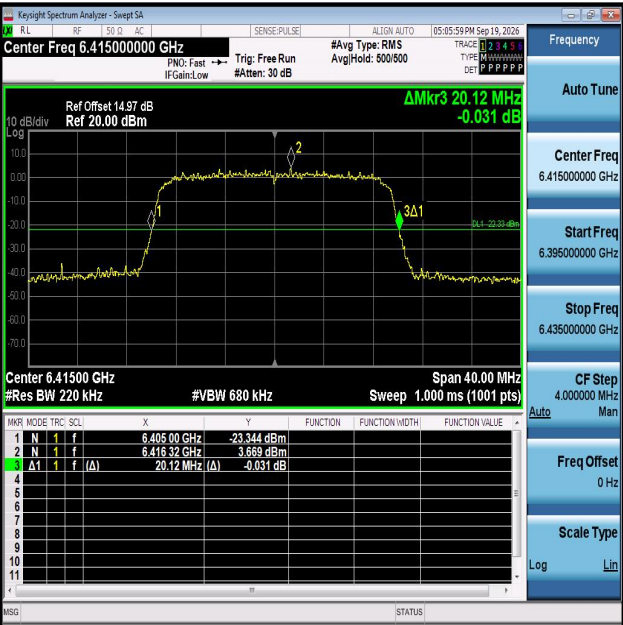
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11AX20MIMO-Ant1-6255-PASS



11AX20MIMO-Ant2-6255-PASS



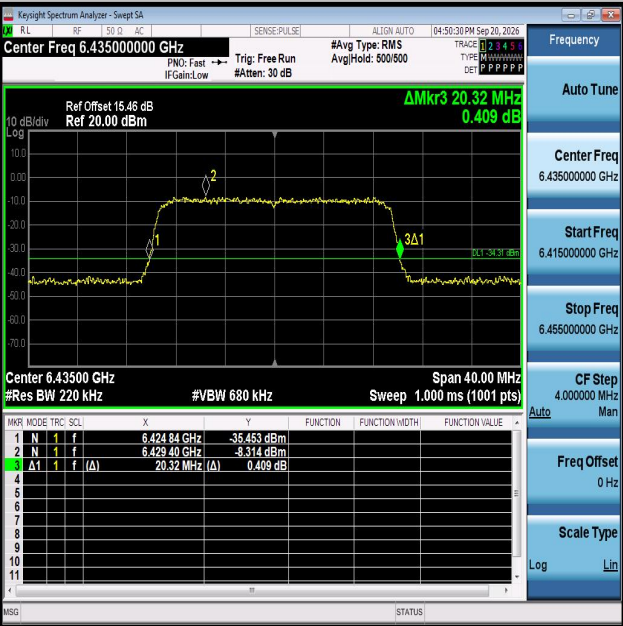
11AX20MIMO-Ant1-6415-PASS



11AX20MIMO-Ant2-6415-PASS



11AX20MIMO-Ant1-6435-PASS



11AX20MIMO-Ant2-6435-PASS