



FCC PART 15.247
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT2
RSS-247 ISSUE 3, AUGUST 2023

TEST REPORT

For

FCC: FUJIAN YESOUL HEALTH TECHNOLOGY CO.,LTD
RM-B616, BLDG., NO.1, STRAIT ECONOMIC AND TRADE PLAZA, FUZHOU FREE TRADE ZONE,
FUZHOU, FUJIAN, China

IC: Fujian YESOUL Health Technology Co., Ltd.
Rm-B616, Bldg., No.1, Strait Economic and Trade Plaza, Fuzhou Free Trade Zone Fuzhou 350000 China

FCC ID: 2A3YB-YS-TT1MPLUS
IC: 30451-YSTT1MPLUS

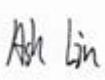
Report Type: Original Report	Product Name: YESOUL TREADMILL
Report Number:	2407X35401E-RF-03
Report Date:	2025-04-15
Reviewed By:	Ash Lin 
Approved By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407X35401E-RF-03	R1V1	2025-04-15	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	FCC: FUJIAN YESOUL HEALTH TECHNOLOGY CO.,LTD IC: Fujian YESOUL Health Technology Co., Ltd.
Product Name:	YESOUL TREADMILL
Tested Model:	YS-TT1MPLUS
HVIN:	YS-TT1MPLUS
Power Supply:	AC 100-240V, 50/60Hz
Maximum Peak Conducted Output Power:	18.22 dBm
Frequency Range:	802.11b/g/n20: 2412-2462 MHz 802.11n40: 2422-2452 MHz
Modulation Technique:	DSSS, OFDM
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	3.71 dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. All measurement and test data in this report was gathered from production sample serial number: 2RG3-2 (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2024-09-09)	

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 15.247 Meas Guidance v05r02 & RSS-247 Issue 3, August 2023 and RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the IC accredited lab under the KDB 974614 D01, the IC Designation No. : CN0176.

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.33 dB
Radiated Emission	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~200MHz	3.47 dB
	200MHz~1GHz	4.86 dB
	1GHz~6GHz	4.58 dB
	6GHz-18GHz	5.43 dB
	18GHz~26.5GHz	5.47 dB
Occupied Channel Bandwidth		0.053 kHz
Transmitter Conducted Power(Conducted RF power)		0.624 dB
Power Spectral Density		0.61 dB
Duty Cycle		1 %
Temperature		1 °C
Humidity		5 %
Supply voltages		0.4 %

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

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test mode 1: Transmitting
Test voltage:	Test mode 1: AC 120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-ht20, 802.11n-ht40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-ht20 mode, EUT was tested with Channel 1, 6 and 11.

For 802.11n-ht40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

Wi-Fi test in the engineer mode.

RF Test Tool: EspRFTestTool_v3.6_Manual.exe

The device was tested with the worst case was performed as below:

Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	12	12	12
802.11g	6 Mbps	32	32	32
802.11n ht20	MCS0	32	32	32
802.11n ht40	MCS0	32	32	32

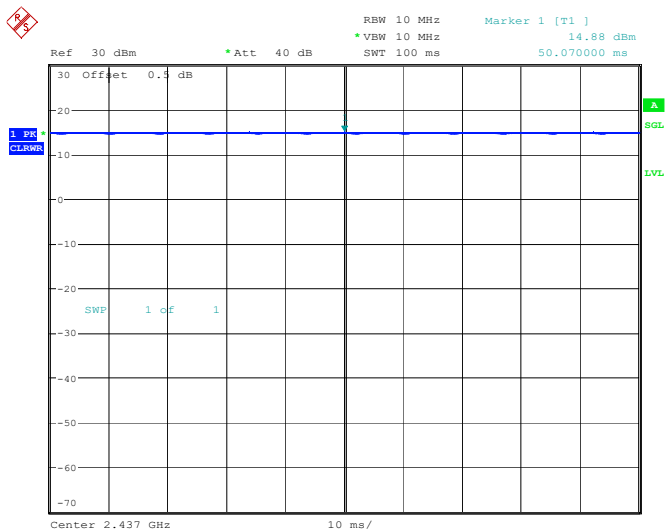
Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

Duty Cycle

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm :100.2kPa

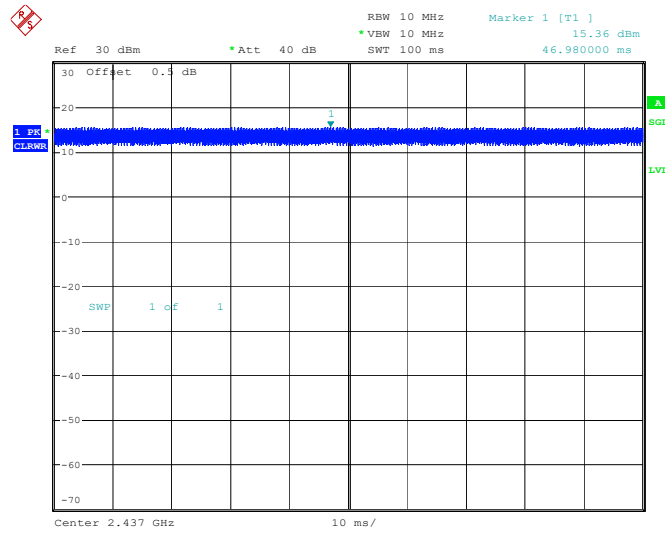
Modes	Ton (ms)	Ton + off (ms)	Duty Cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11b	100	100	100.00	10	0	0.01
802.11g	100	100	100.00	10	0	0.01
802.11n ht20	100	100	100.00	10	0	0.01
802.11n ht40	100	100	100.00	10	0	0.01

802.11b Middle Channel



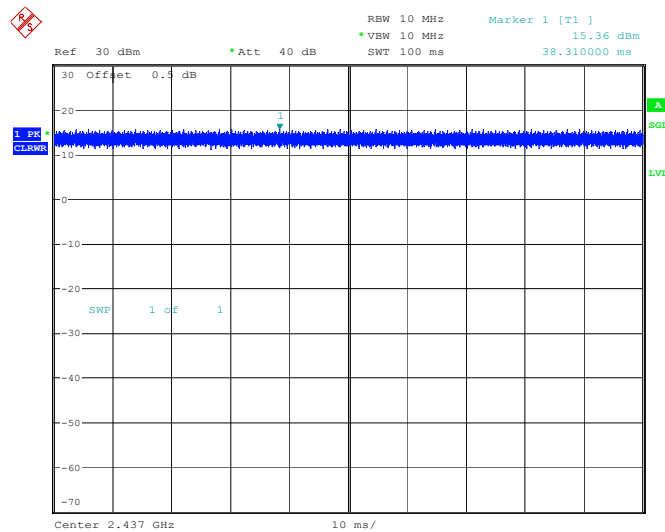
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:42:02

802.11g Middle Channel



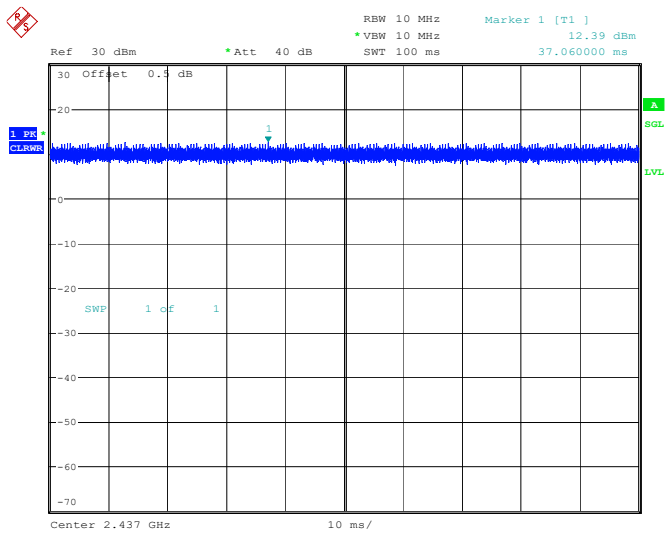
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:42:45

802.11nHT20 Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:43:19

802.11nHT40 Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:43:46

Support Equipment List and Details

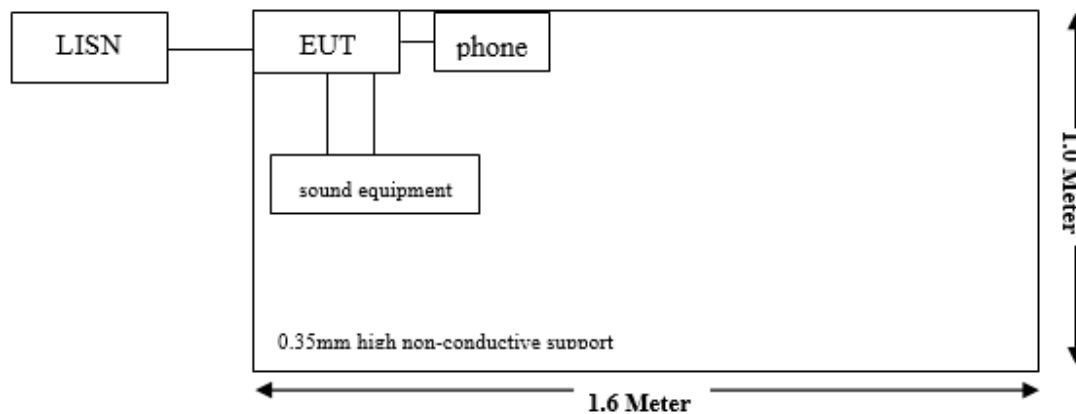
Manufacturer	Description	Model	Serial Number
Apple	phone	MLDU3CH/A	KY4D4MP4YC
YESOUL	sound equipment	BT-2020:06.26.0012	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	1	phone	EUT
3.5mm audio cable	0.5	sound equipment	EUT
USB Cable	0.5	sound equipment	EUT

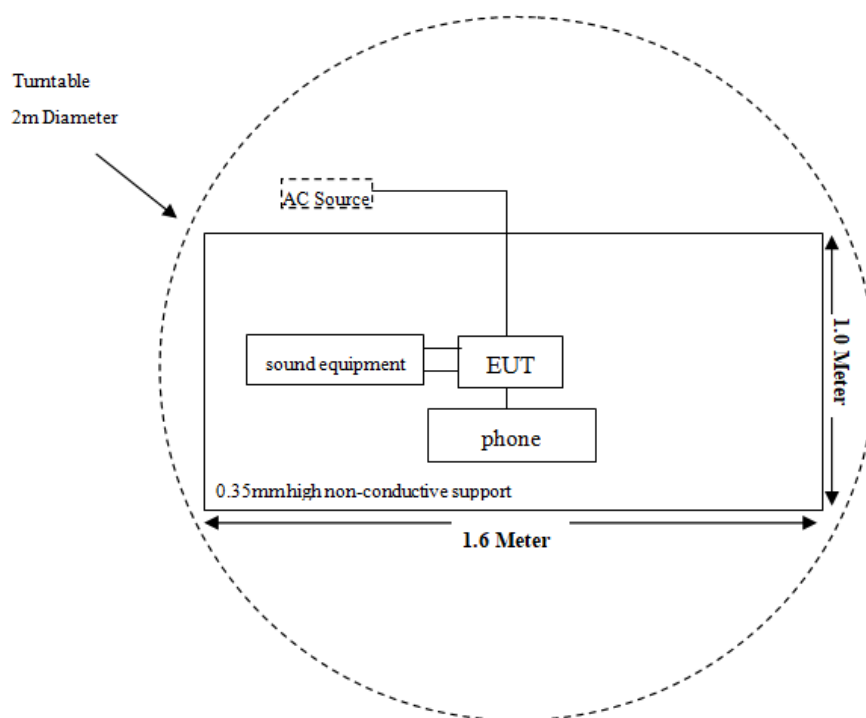
Block Diagram of Test Setup

Conducted Emission:

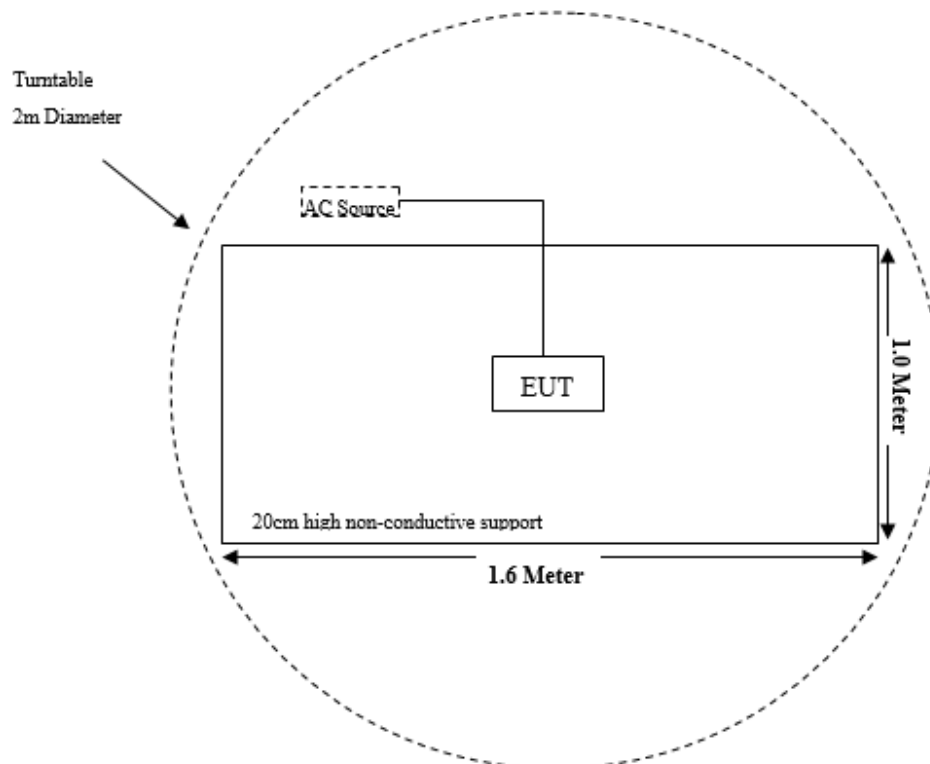


Radiated Emission:

Below 1GHz:

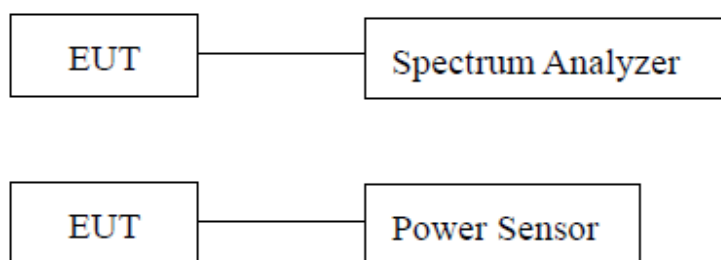


Above 1GHz:



Note: Antenna is 1.5m above ground.

RF Conduction:



Note: The cable assembly insertion loss of 0.5dB was entered as an offset in the spectrum analyzer / power sensor. (Actual cable loss was unavailable at the time of testing, therefore loss of 0.5dB was assumed as worst case.) This was later verified to be true by laboratory.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliance
FCC§15.207 (a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliance
FCC§15.205, §15.209,§15.247(d) RSS-247 Clause 5.5 RSS-Gen Clause 8.10	Spurious Emissions	Compliance
FCC§15.247 (a)(2) RSS-247 Clause 5.2 a)	6 dB Emission Bandwidth	Compliance
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliance
FCC§15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliance
FCC§15.247(d) RSS-247 Clause 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC§15.247(e) RSS-247 Clause 5.2 b)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2024/03/29	2025/03/28
LISN	Rohde & Schwarz	ENV216	100129	2024/03/29	2025/03/28
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test & Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Preamplifier	A.H.Systems	PAM-0118P	489	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2024/03/29	2025/03/28
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2024/03/29	2025/03/28
USB Wideband Power Sensor	Boonton	55318	8934	2024/09/19	2025/09/18
Coaxial Cable	Lianxun	RF113	N/A	Each time	N/A

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

FCC §15.203 & RSS-Gen Clause 6.8- ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-Gen Clause 6.8 The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one PCB antenna arrangement for WIFI, which was permanently attached and the antenna gain is 3.71 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

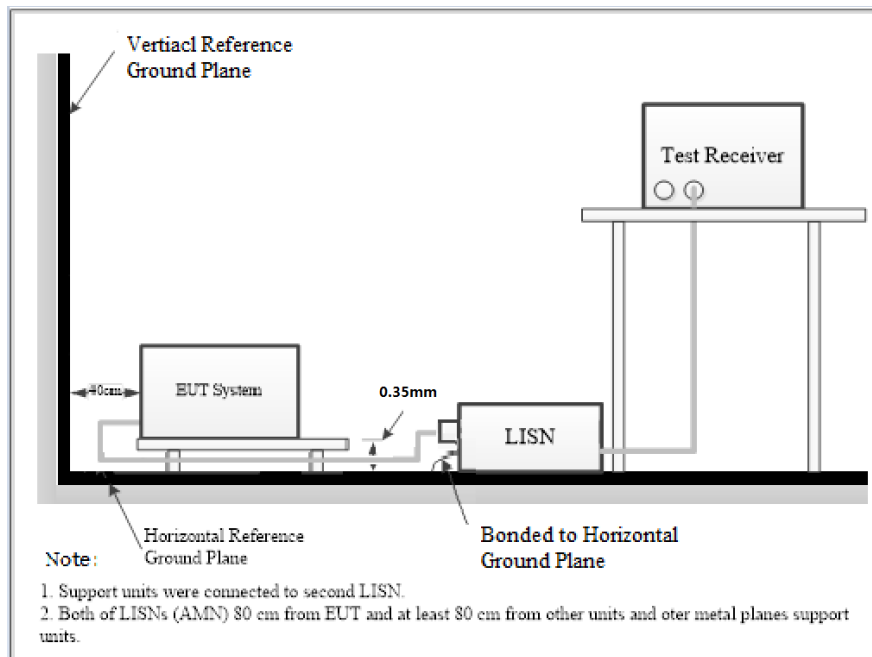
Result: Compliance

FCC §15.207 (a) & RSS-Gen Clause 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207, RSS-Gen Clause 8.8

EUT Setup



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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

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

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

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

Result & Margin Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

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

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

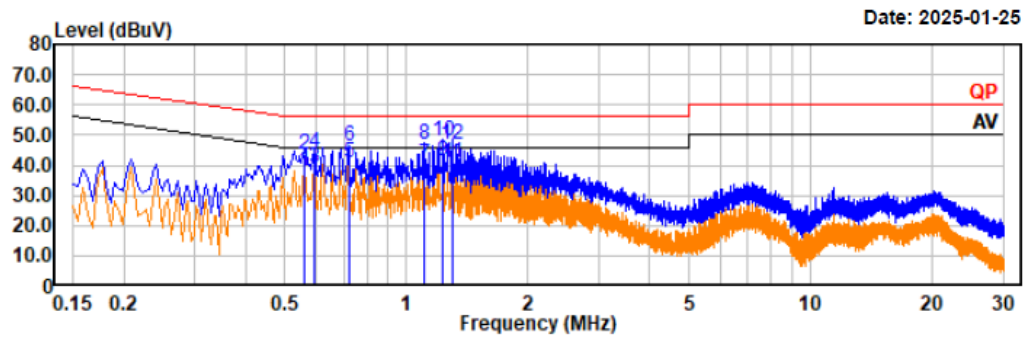
Test Data

Temperature:	21.2°C
Relative Humidity:	47%
ATM Pressure:	100.1kPa
Test Date:	2025-01-25
Test Engineer:	Spike Gao

Note: The maximum output power mode: Wifi 802.11b middle channel was tested.

Project No.: 2507X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS

Temp/Humi/ATM: 21.2°C/47%/100.1kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz



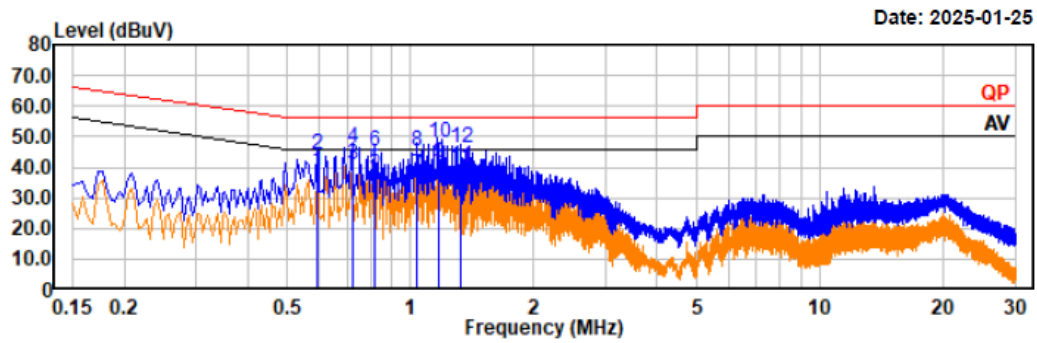
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.56	17.89	20.36	38.25	46.00	7.75	Line	Average
0.56	23.37	20.36	43.73	56.00	12.27	Line	QP
0.59	18.56	20.40	38.96	46.00	7.04	Line	Average
0.59	23.81	20.40	44.21	56.00	11.79	Line	QP
0.72	20.29	20.53	40.82	46.00	5.18	Line	Average
0.72	25.81	20.53	46.34	56.00	9.66	Line	QP
1.10	19.42	20.95	40.37	46.00	5.63	Line	Average
1.10	26.19	20.95	47.14	56.00	8.86	Line	QP
1.23	20.53	20.98	41.51	46.00	4.49	Line	Average
1.23	26.81	20.98	47.79	56.00	8.21	Line	QP
1.30	19.69	20.99	40.68	46.00	5.32	Line	Average
1.30	26.11	20.99	47.10	56.00	8.90	Line	QP

Project No.: 2507X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS

Temp/Humi/ATM: 21.2°C/47%/100.1kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz



Trace: 1

Condition: IF B/W 9kHz PK/AV

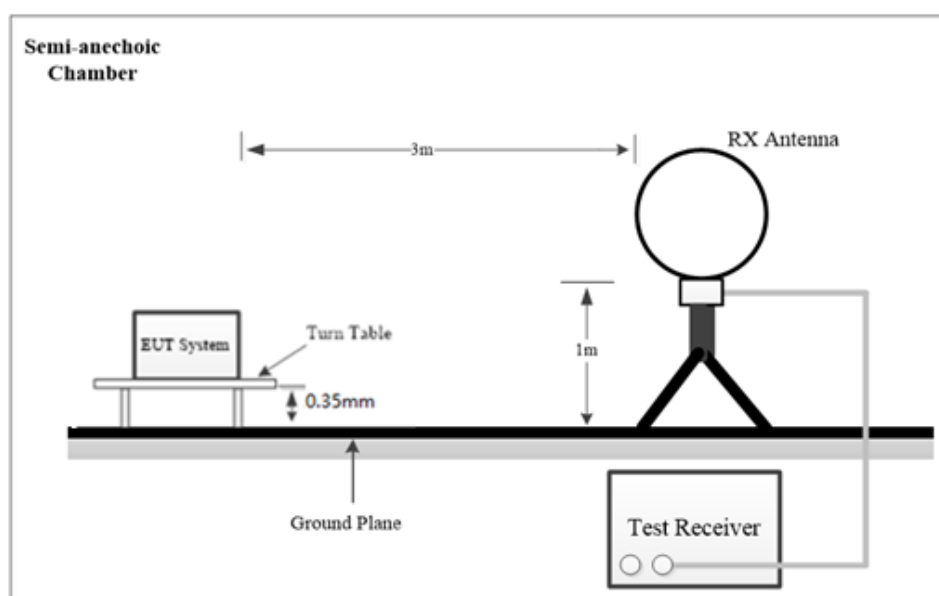
Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.59	18.34	20.35	38.69	46.00	7.31	Neutral	Average
0.59	23.89	20.35	44.24	56.00	11.76	Neutral	QP
0.72	20.53	20.35	40.88	46.00	5.12	Neutral	Average
0.72	26.14	20.35	46.49	56.00	9.51	Neutral	QP
0.82	18.34	20.57	38.91	46.00	7.09	Neutral	Average
0.82	24.46	20.57	45.03	56.00	10.97	Neutral	QP
1.04	16.71	20.93	37.64	46.00	8.36	Neutral	Average
1.04	24.39	20.93	45.32	56.00	10.68	Neutral	QP
1.17	20.66	20.94	41.60	46.00	4.40	Neutral	Average
1.17	26.87	20.94	47.81	56.00	8.19	Neutral	QP
1.33	18.76	20.96	39.72	46.00	6.28	Neutral	Average
1.33	25.23	20.96	46.19	56.00	9.81	Neutral	QP

FCC §15.209, §15.205 & §15.247(d) & RSS-247 ISSUE 3 Clause 5.5, RSS-GEN ISSUE5 CLAUSE 8.10 - SPURIOUS EMISSIONS**Applicable Standard**

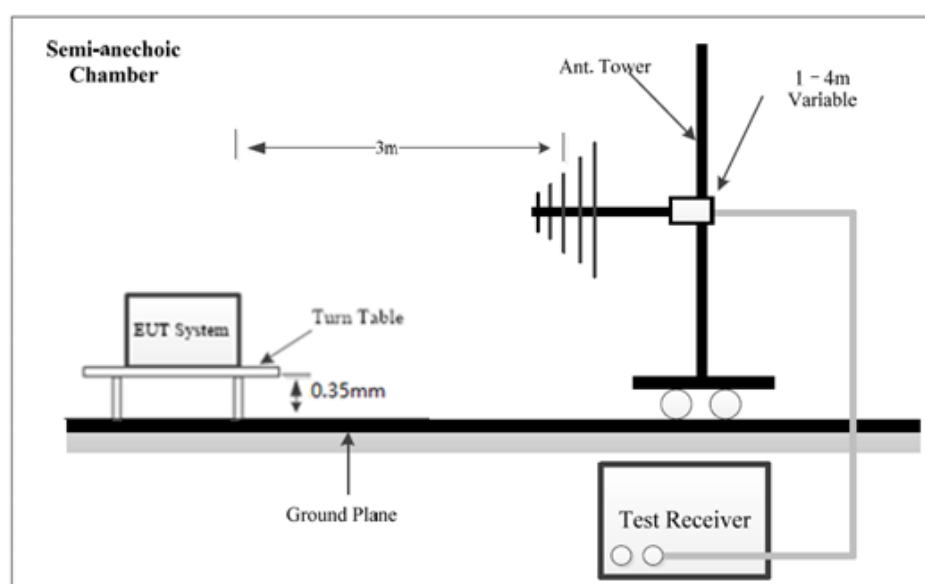
FCC §15.247 (d); §15.209; §15.205; RSS-247 Issue 3 Clause 5.5; RSS-Gen Issue5 Clause 8.10

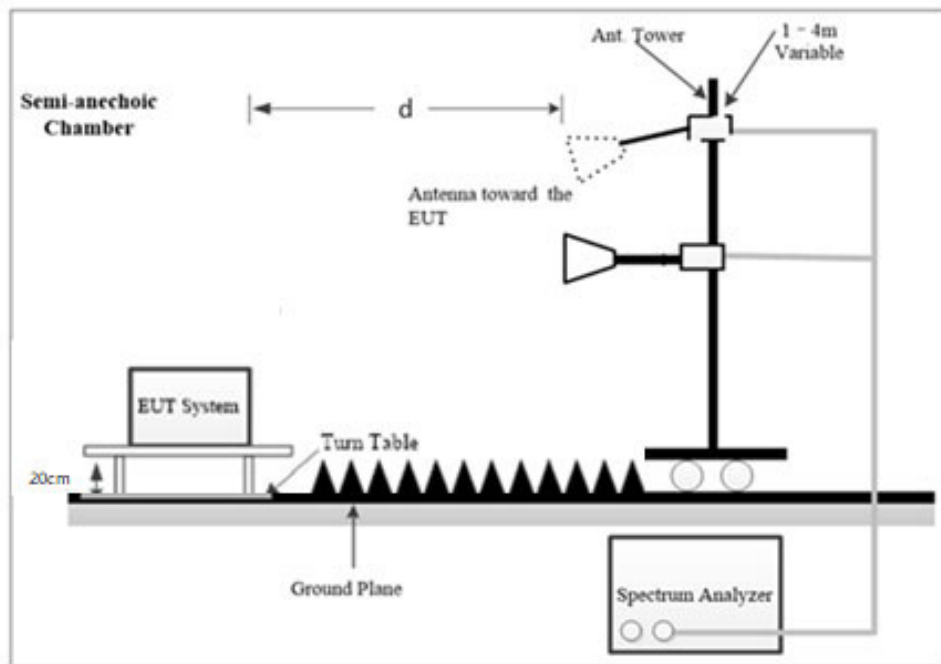
EUT Setup

9 kHz-30MHz:



30MHz -1 GHz:



Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247, RSS-247, RSS-Gen limits.

NOTE:

d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.5 m distance, according to ANSI C63.10 - 2013, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]}) \text{ dB} = 6\text{dB}$

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

Below 1GHz:

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

Above 1GHz:**Pre-scan:**

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	5kHz	AV	PK
<98%	1MHz	1/T, not less than 5kHz	AV	PK

Final measurement for emission identified during the pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	10Hz	AV	PK
<98%	1MHz	1/T	AV	PK

Test Procedure

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

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Result & Margin Calculation

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

For 9 kHz to 18GHz Radiated emission test

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test and Bandedge emissions test

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB) - Extrapolation factor (dB)

Extrapolation factor = 6dB (distance = 1.5m)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

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

Margin (dB) = Limit (dBμV/m) – Result (dBμV/m)

The spurious emission from 9 kHz-30MHz of IC RSS-Gen standard, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51.5dB from dBμA/m to dBμV/m.

Test Data

Please refer to the below table and plots.

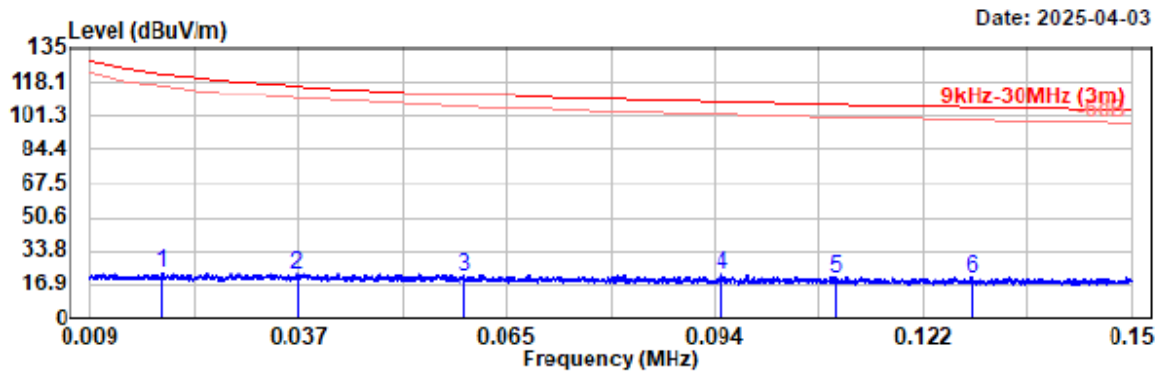
Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	23.8°C	22.5°C~23.3°C
Relative Humidity:	48%	48%~55%
ATM Pressure:	100.1kPa	100.1kPa~100.2kPa
Test Date:	2025-04-03	2024-09-20~2024-12-13
Test Engineer:	Wlif Wu	Wlif Wu

1) 9 kHz~30MHz

Note: The maximum output power mode: Wifi 802.11b middle channel was tested.

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.8°C/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

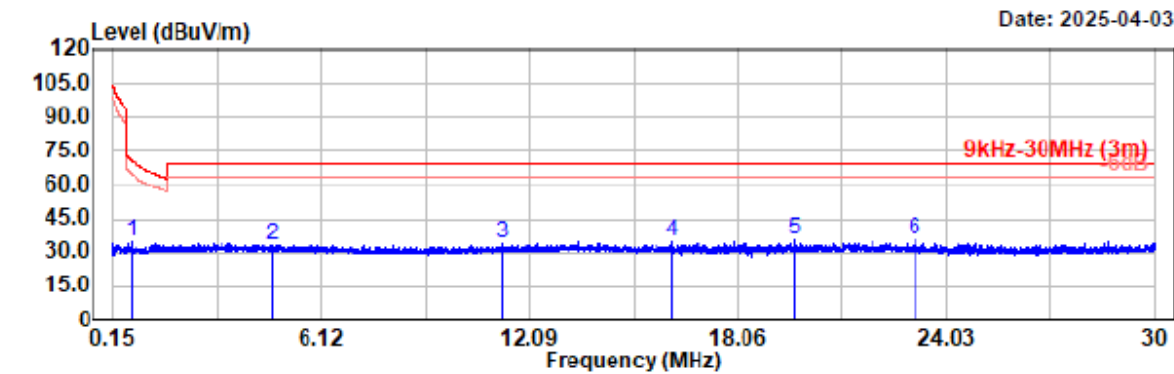


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.019	3.63	19.78	23.41	122.08	98.67	Peak
0.037	2.45	19.91	22.36	116.24	93.88	Peak
0.060	1.96	19.91	21.87	112.09	90.22	Peak
0.094	2.60	19.78	22.38	108.10	85.72	Peak
0.110	0.92	19.73	20.65	106.78	86.13	Peak
0.128	0.59	19.73	20.32	105.45	85.13	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.8℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10KHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.687	15.10	19.85	34.95	70.86	35.91	Peak
4.717	13.76	19.70	33.46	69.58	36.12	Peak
11.317	14.20	19.72	33.92	69.58	35.66	Peak
16.168	15.01	19.84	34.85	69.58	34.73	Peak
19.711	15.17	20.07	35.24	69.58	34.34	Peak
23.129	15.41	20.17	35.58	69.58	34.00	Peak

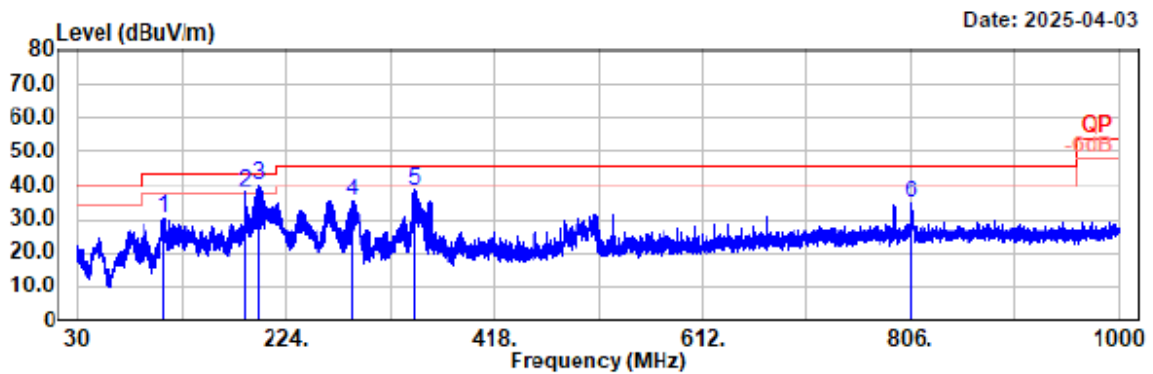
Note: $dBuV/m = dBuA/m + 51.5dB$

2) 30MHz~1GHz

Note: The maximum output power mode: Wifi 802.11b middle channel was tested.

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.8°C/48%/100.1kPa
Tested by: Zane Zhang
Power Source: AC120V/60Hz

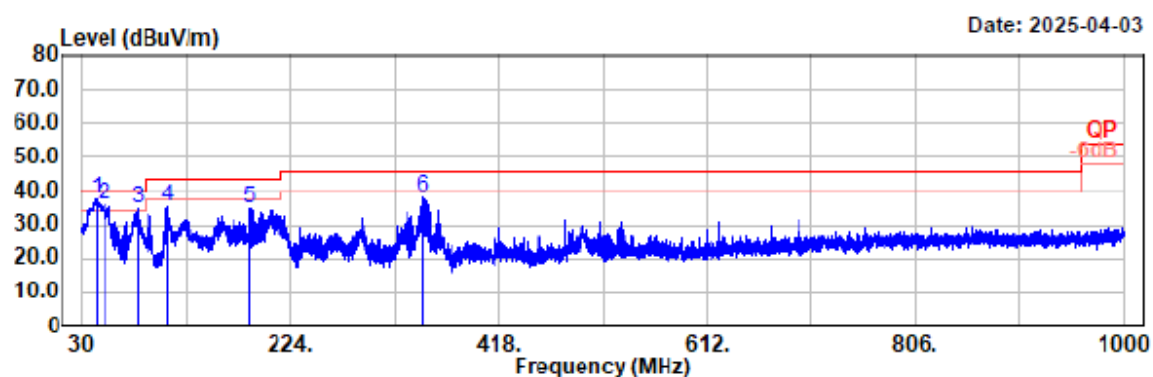


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
109.83	42.28	-11.94	30.34	43.50	13.16	Horizontal	Peak
186.07	50.47	-12.53	37.94	43.50	5.56	Horizontal	QP
198.00	51.98	-11.73	40.25	43.50	3.25	Horizontal	QP
285.50	44.57	-9.26	35.31	46.00	10.69	Horizontal	Peak
343.21	46.77	-8.29	38.48	46.00	7.52	Horizontal	Peak
806.58	33.29	1.30	34.59	46.00	11.41	Horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.8°C/48%/100.1kPa
Tested by: Zane Zhang
Power Source: AC120V/60Hz



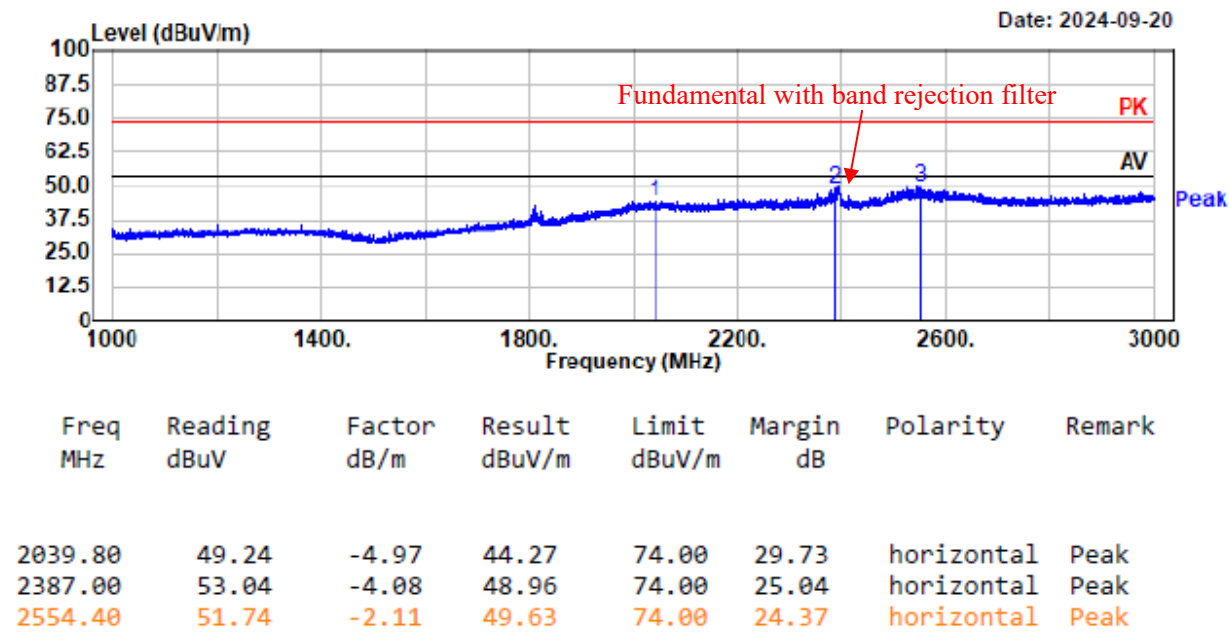
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
43.87	51.88	-14.50	37.38	40.00	2.62	Vertical	QP
50.08	53.20	-17.35	35.85	40.00	4.15	Vertical	QP
81.90	51.87	-17.14	34.73	40.00	5.27	Vertical	QP
110.32	46.90	-11.82	35.08	43.50	8.42	Vertical	Peak
185.59	47.07	-12.51	34.56	43.50	8.94	Vertical	Peak
347.00	46.14	-8.15	37.99	46.00	8.01	Vertical	Peak

3) 1GHz~3GHz

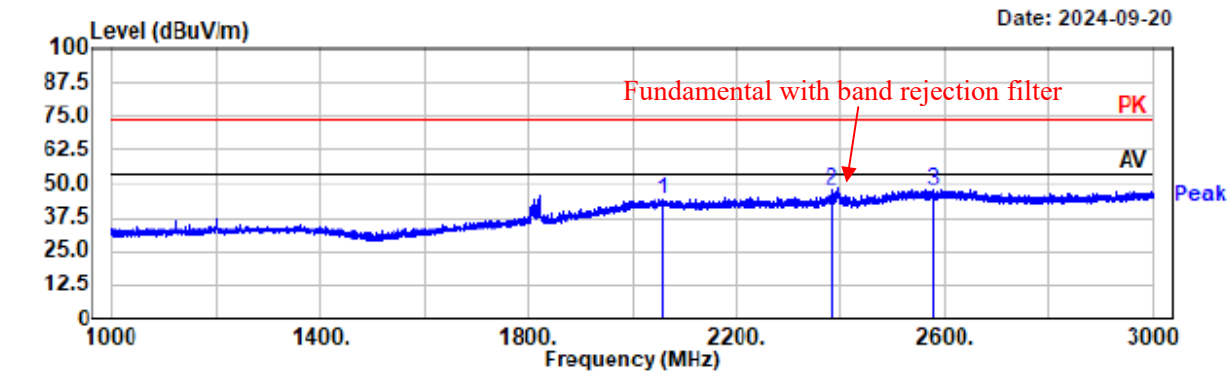
Project No.: 2407X35401E-RF
Test Mode: 11b-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Project No.: 2407X35401E-RF
Test Mode: 11b-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2060.20	49.01	-4.95	44.06	74.00	29.94	vertical	Peak
2383.20	51.87	-4.14	47.73	74.00	26.27	vertical	Peak
2577.60	49.80	-2.04	47.76	74.00	26.24	vertical	Peak

Project No.: 2407X35401E-RF

Test Mode: 11b-2437

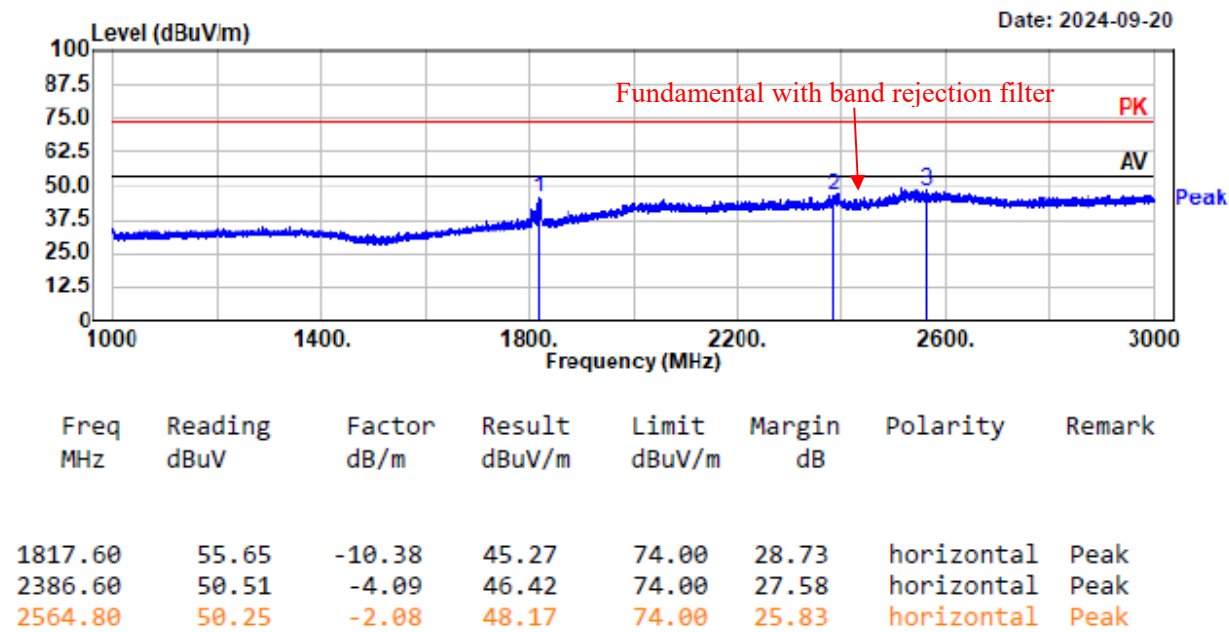
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 23.3°C/55%/100.1kPa

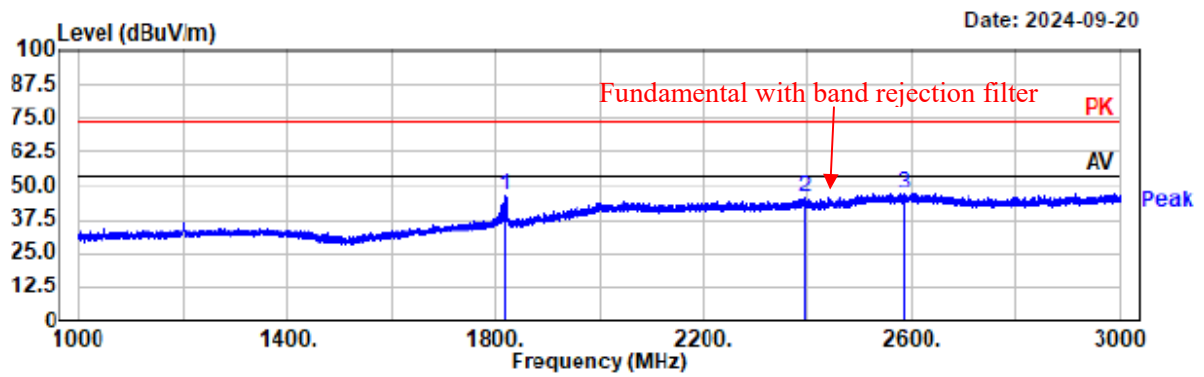
Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

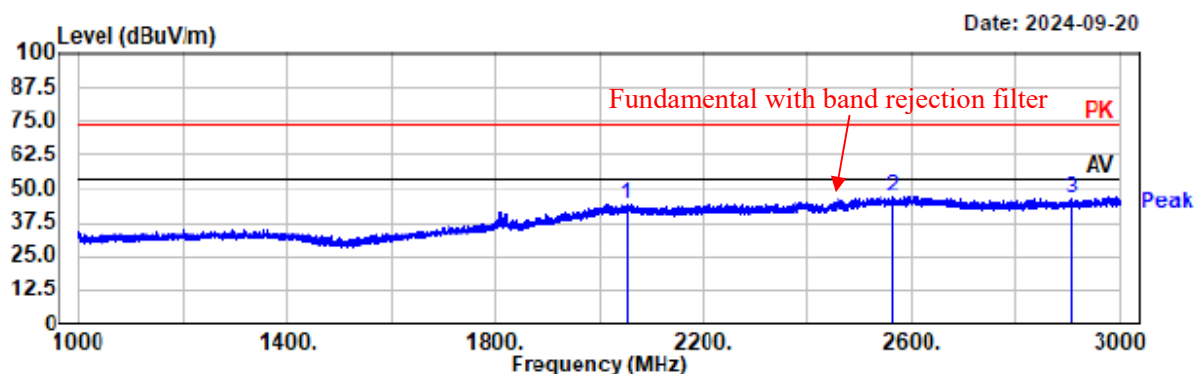
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1819.20	56.36	-10.37	45.99	74.00	28.01	vertical	Peak
2395.20	49.50	-3.96	45.54	74.00	28.46	vertical	Peak
2586.60	48.93	-2.00	46.93	74.00	27.07	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

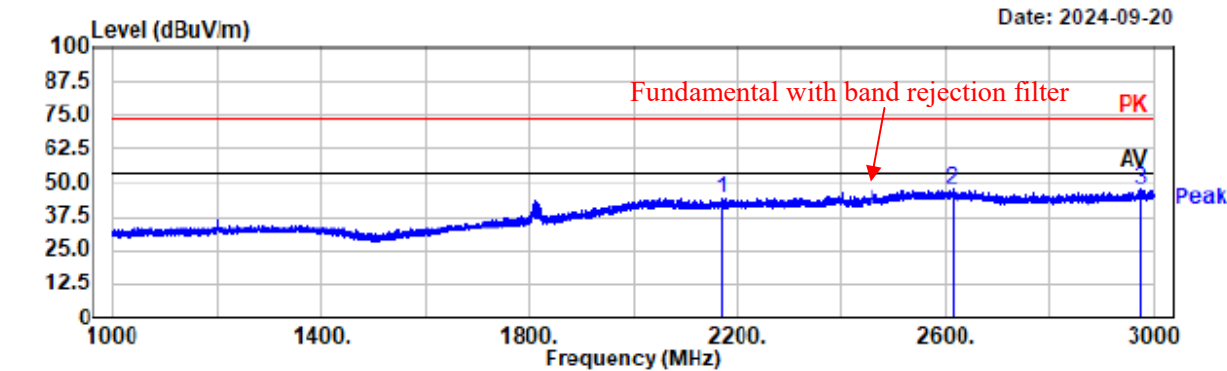
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2053.80	49.18	-4.86	44.32	74.00	29.68	horizontal	Peak
2563.40	49.08	-2.09	46.99	74.00	27.01	horizontal	Peak
2908.40	49.02	-2.94	46.08	74.00	27.92	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

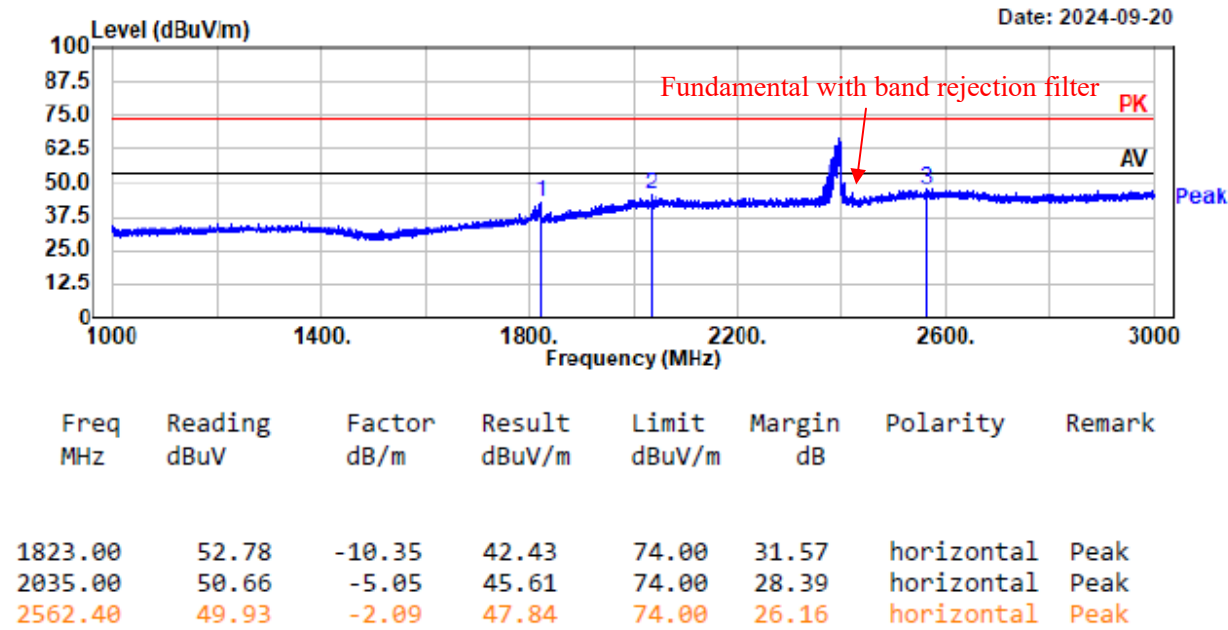
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2169.00	49.45	-5.34	44.11	74.00	29.89	vertical	Peak
2612.20	49.55	-1.96	47.59	74.00	26.41	vertical	Peak
2975.20	50.23	-2.66	47.57	74.00	26.43	vertical	Peak

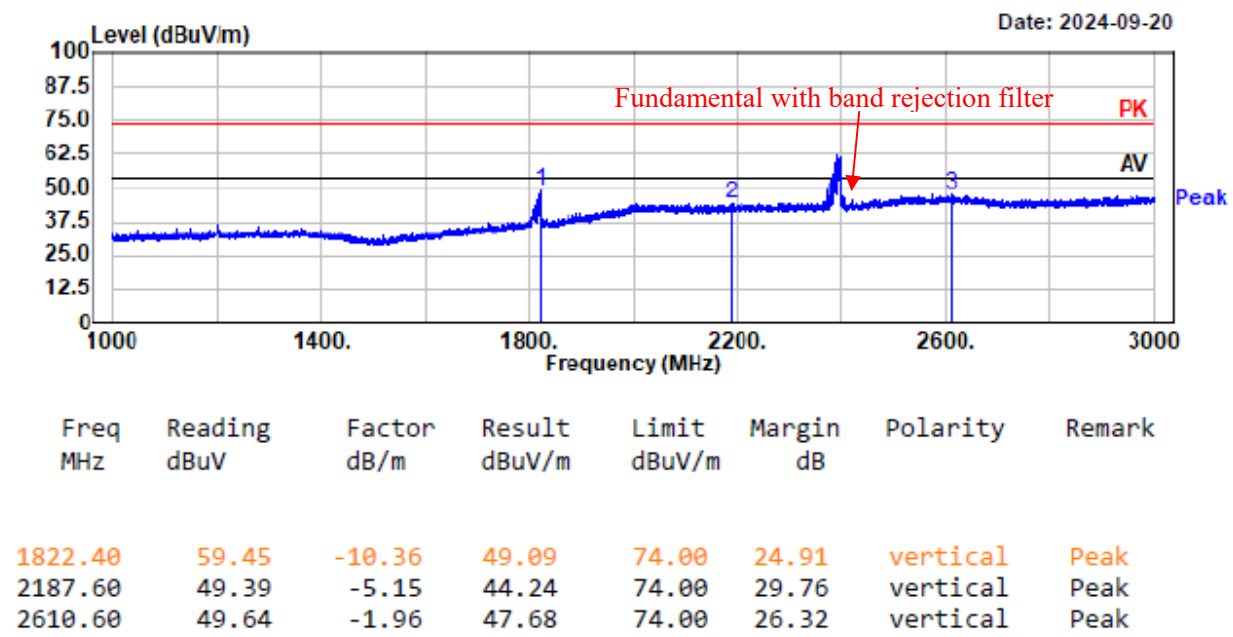
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Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3℃/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



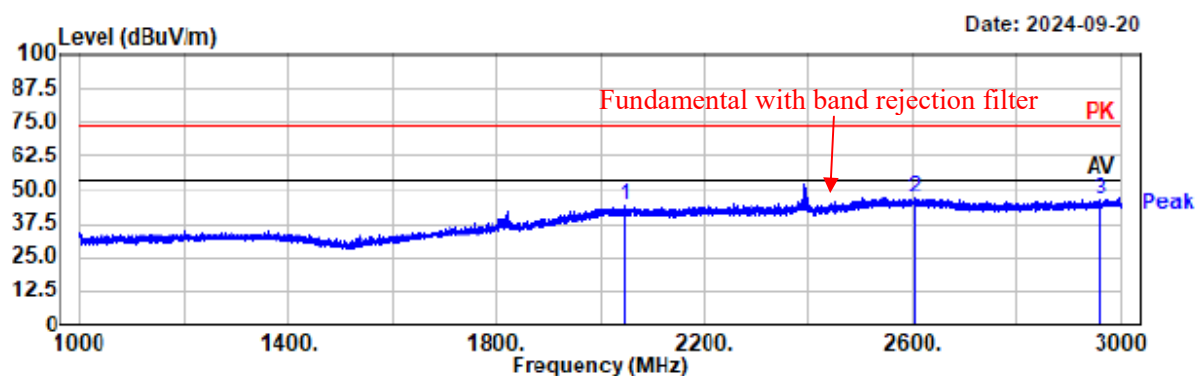
Project No.: 2407X35401E-RF
Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3℃/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Project No.: 2407X35401E-RF
Test Mode: 11g-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

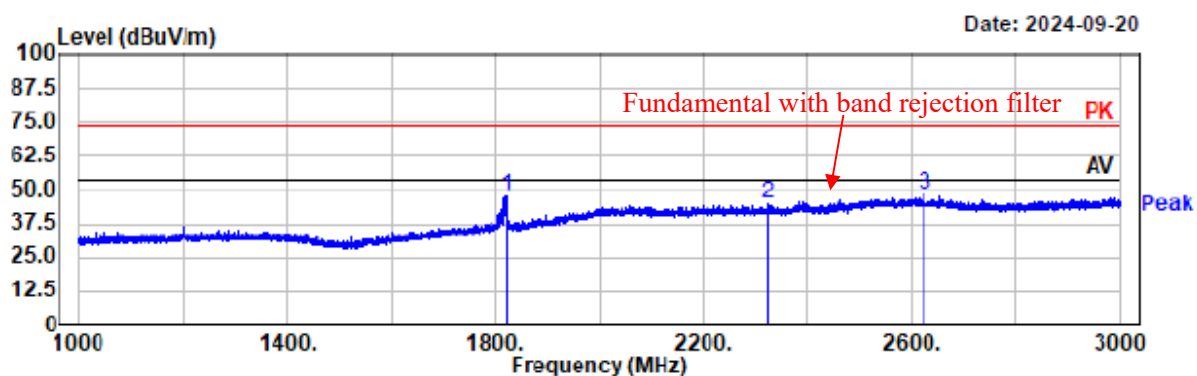
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2049.80	48.82	-4.81	44.01	74.00	29.99	horizontal	Peak
2604.80	48.86	-1.96	46.90	74.00	27.10	horizontal	Peak
2961.40	49.01	-2.71	46.30	74.00	27.70	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

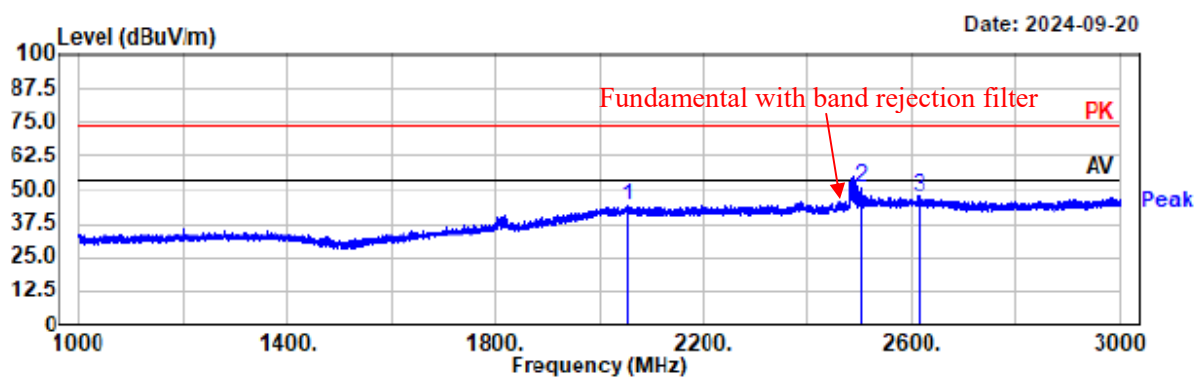
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1823.20	58.04	-10.35	47.69	74.00	26.31	vertical	Peak
2324.00	49.35	-4.84	44.51	74.00	29.49	vertical	Peak
2624.60	50.21	-1.99	48.22	74.00	25.78	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2055.00	48.77	-4.88	43.89	74.00	30.11	horizontal	Peak
2503.20	53.96	-2.78	51.18	74.00	22.82	horizontal	Peak
2612.60	49.32	-1.97	47.35	74.00	26.65	horizontal	Peak

Project No.: 2407X35401E-RF

Test Mode: 11g-2462

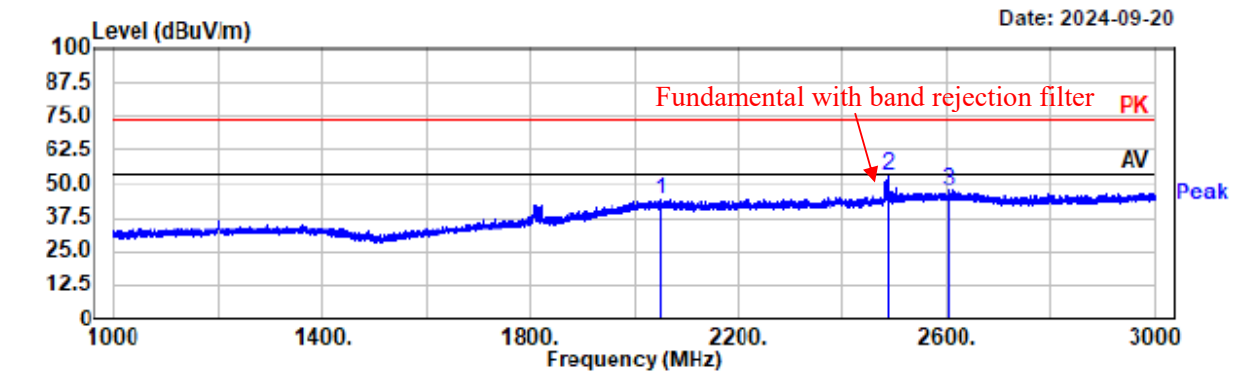
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 23.3°C/55%/100.1kPa

Tested by: Wlif Wu

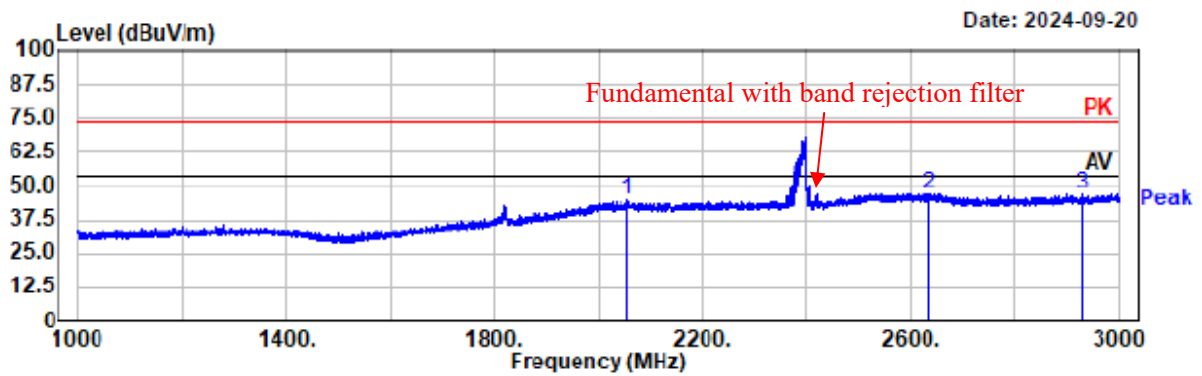
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2051.60	48.79	-4.83	43.96	74.00	30.04	vertical	Peak
2489.20	56.34	-3.04	53.30	74.00	20.70	vertical	Peak
2602.20	49.32	-1.95	47.37	74.00	26.63	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

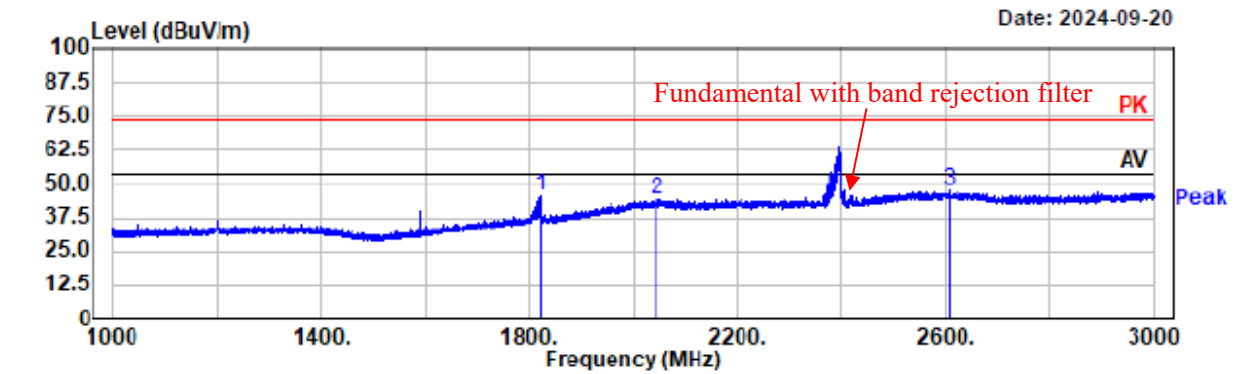
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2057.00	49.63	-4.91	44.72	74.00	29.28	horizontal	Peak
2634.00	49.17	-1.99	47.18	74.00	26.82	horizontal	Peak
2929.60	49.85	-2.84	47.01	74.00	26.99	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

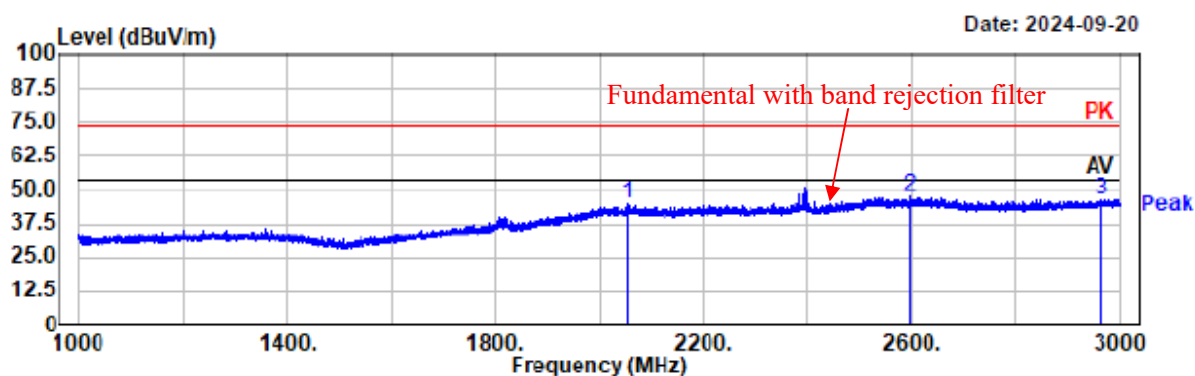
Temp/Humi/ATM: 23.3℃/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1822.40	56.09	-10.36	45.73	74.00	28.27	vertical	Peak
2045.40	48.98	-4.89	44.09	74.00	29.91	vertical	Peak
2608.60	49.25	-1.96	47.29	74.00	26.71	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

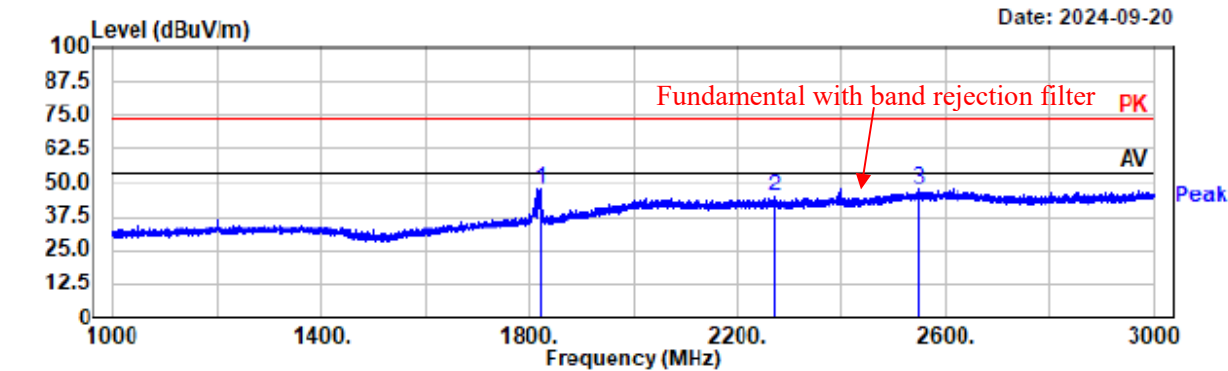
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2055.00	49.53	-4.88	44.65	74.00	29.35	horizontal	Peak
2596.80	49.44	-1.96	47.48	74.00	26.52	horizontal	Peak
2963.20	49.15	-2.71	46.44	74.00	27.56	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

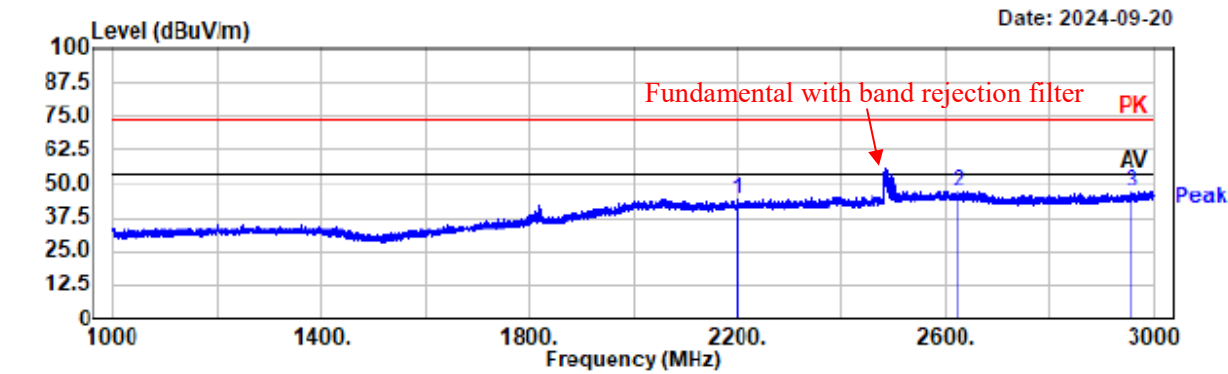
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1822.20	58.22	-10.36	47.86	74.00	26.14	vertical	Peak
2272.00	49.52	-5.03	44.49	74.00	29.51	vertical	Peak
2548.80	49.83	-2.15	47.68	74.00	26.32	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

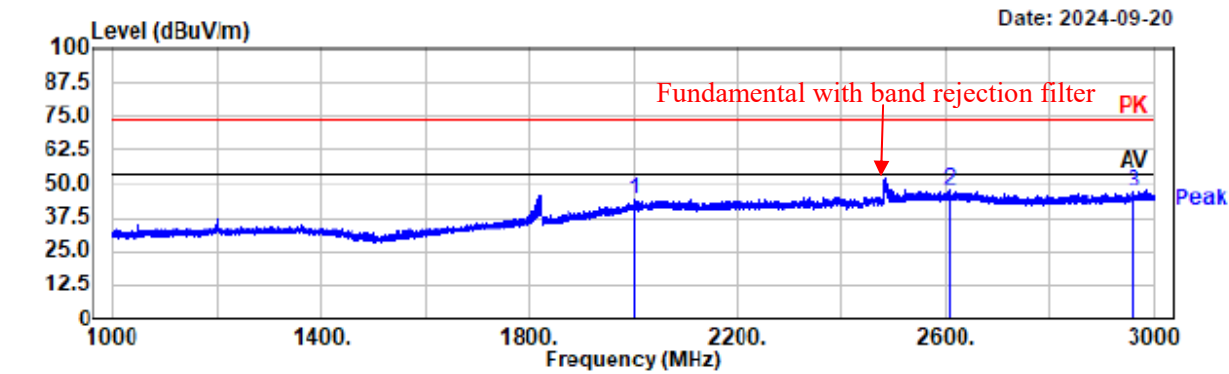
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2198.20	49.47	-5.05	44.42	74.00	29.58	horizontal	Peak
2624.40	49.07	-1.99	47.08	74.00	26.92	horizontal	Peak
2958.00	49.33	-2.73	46.60	74.00	27.40	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

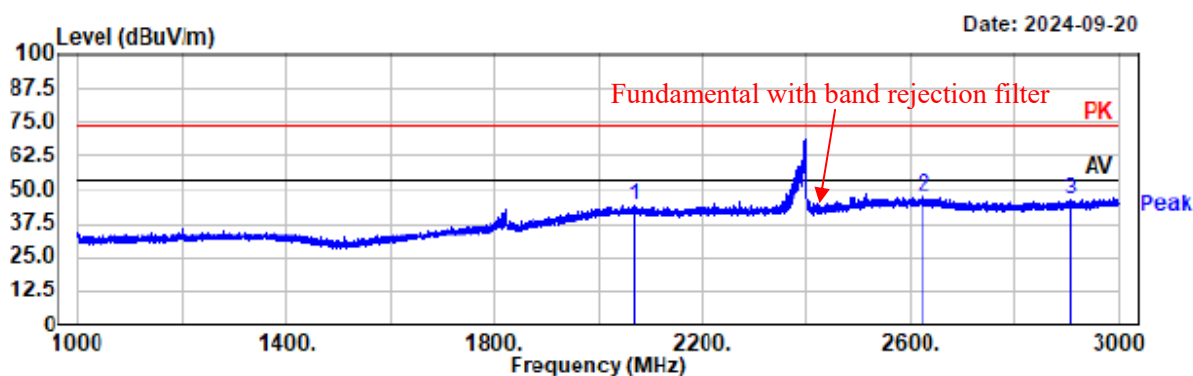
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2001.40	49.85	-5.57	44.28	74.00	29.72	vertical	Peak
2605.60	49.26	-1.96	47.30	74.00	26.70	vertical	Peak
2961.20	49.54	-2.72	46.82	74.00	27.18	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2422
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3℃/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2070.40	49.30	-5.11	44.19	74.00	29.81	horizontal	Peak
2625.20	49.24	-1.97	47.27	74.00	26.73	horizontal	Peak
2908.00	49.21	-2.94	46.27	74.00	27.73	horizontal	Peak

Project No.: 2407X35401E-RF

Test Mode: 11n40-2422

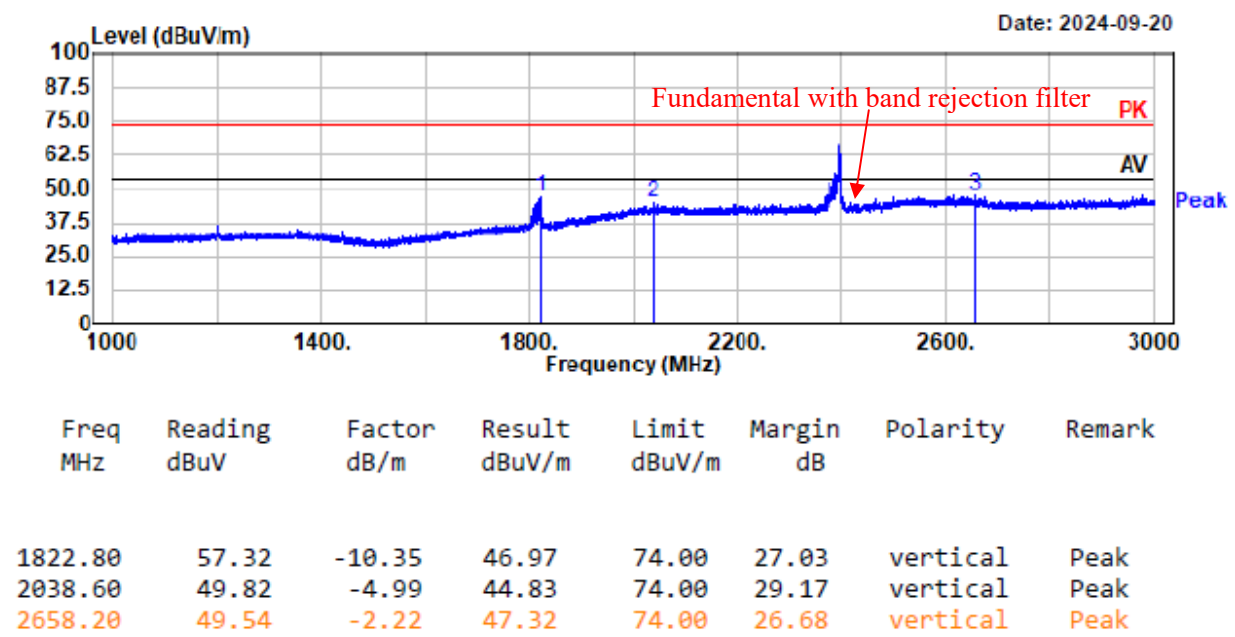
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 23.3℃/55%/100.1kPa

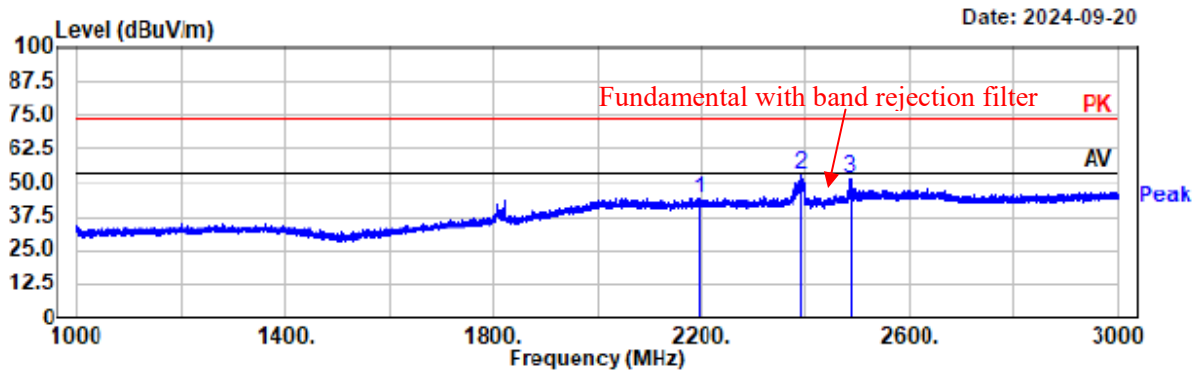
Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407X35401E-RF
Test Mode: 11n40-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

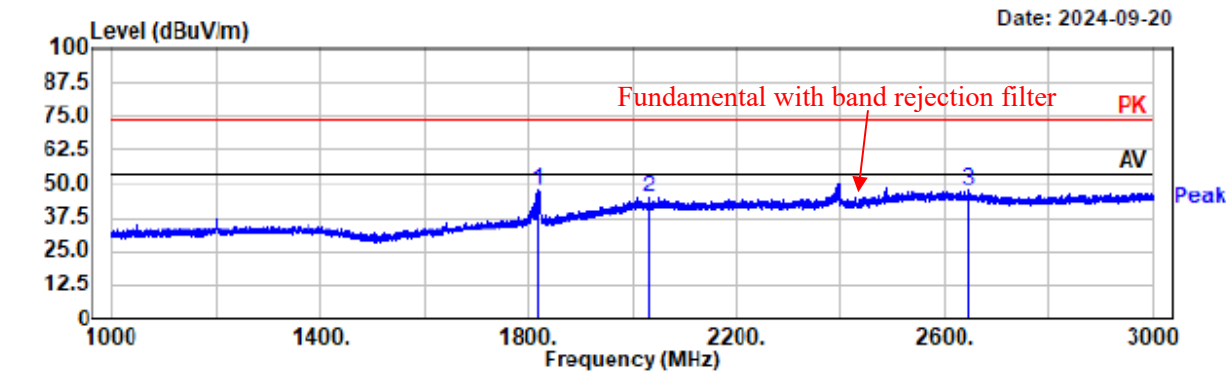
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2195.20	49.50	-5.08	44.42	74.00	29.58	horizontal	Peak
2393.40	56.99	-3.98	53.01	74.00	20.99	horizontal	Peak
2487.00	54.88	-3.08	51.80	74.00	22.20	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

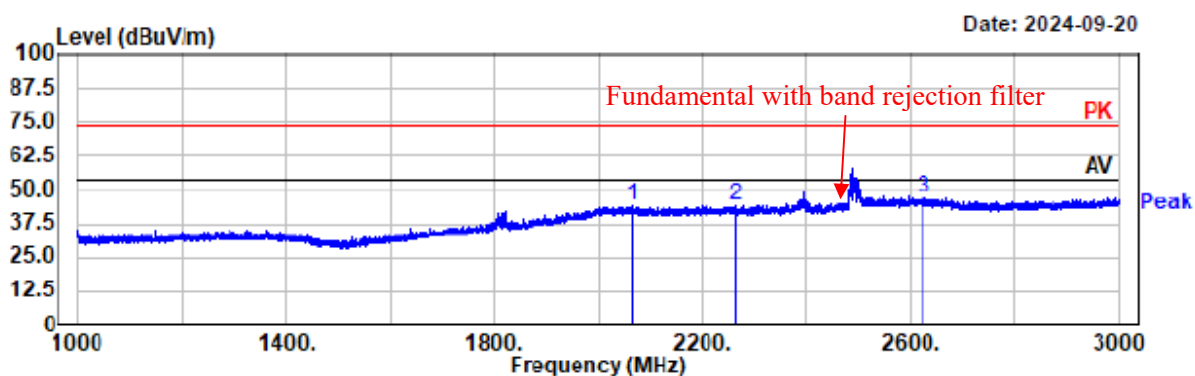
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1818.80	57.71	-10.37	47.34	74.00	26.66	vertical	Peak
2031.80	49.85	-5.09	44.76	74.00	29.24	vertical	Peak
2646.40	49.28	-2.00	47.28	74.00	26.72	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

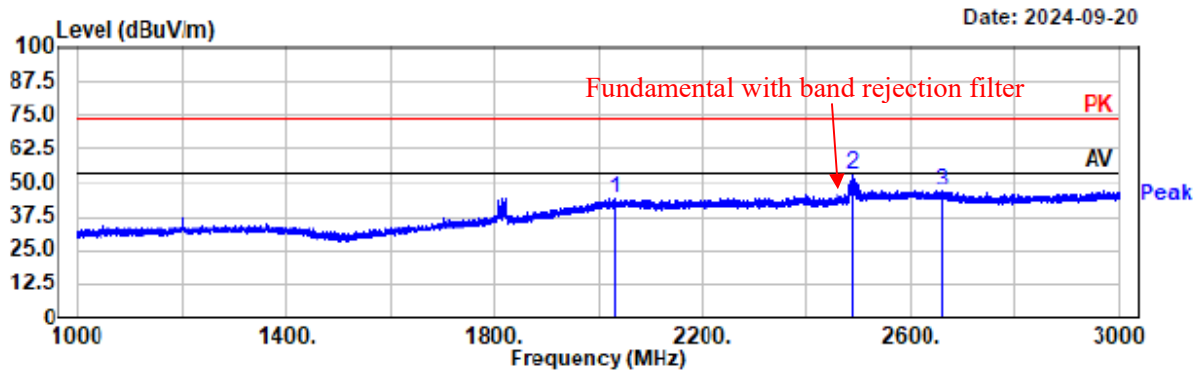
Temp/Humi/ATM: 23.3°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2066.00	48.85	-5.05	43.80	74.00	30.20	horizontal	Peak
2263.40	49.47	-5.02	44.45	74.00	29.55	horizontal	Peak
2625.40	48.96	-1.97	46.99	74.00	27.01	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 23.3℃/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

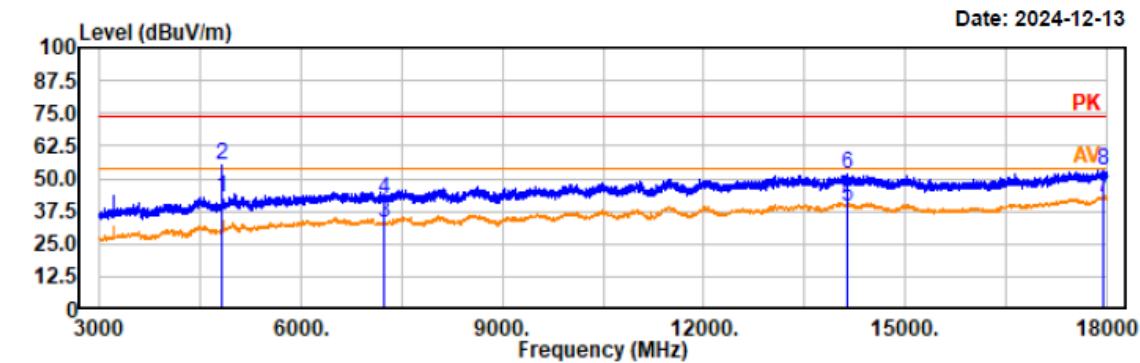


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2030.40	48.94	-5.11	43.83	74.00	30.17	vertical	Peak
2489.00	56.48	-3.04	53.44	74.00	20.56	vertical	Peak
2659.00	49.25	-2.24	47.01	74.00	26.99	vertical	Peak

4) 3GHz~18GHz

Project No.: 2407X35401E-RF
Test Mode: 11b-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

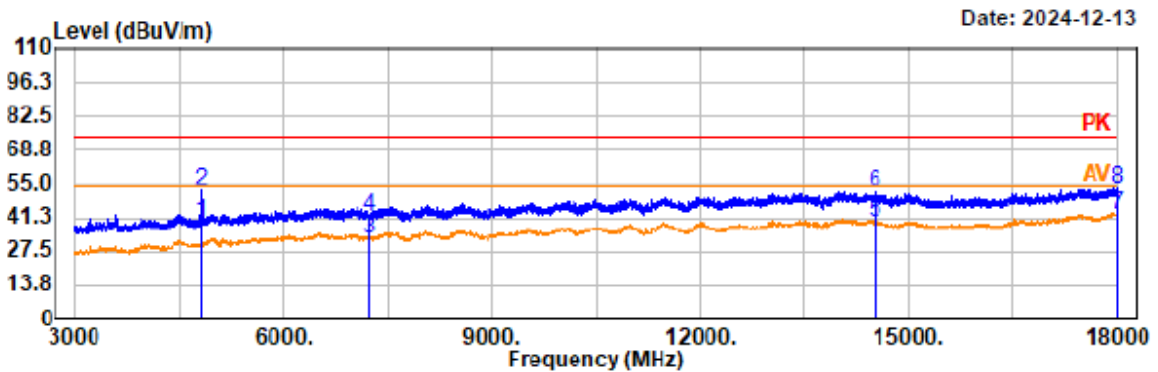
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	47.18	-4.39	42.79	54.00	11.21	horizontal	Average
4824.00	59.41	-4.39	55.02	74.00	18.98	horizontal	Peak
7236.00	34.66	-1.70	32.96	54.00	21.04	horizontal	Average
7236.00	43.57	-1.70	41.87	74.00	32.13	horizontal	Peak
14136.00	34.40	5.24	39.64	54.00	14.36	horizontal	Average
14136.00	46.68	5.24	51.92	74.00	22.08	horizontal	Peak
17943.00	34.96	7.65	42.61	54.00	11.39	horizontal	Average
17943.00	45.77	7.65	53.42	74.00	20.58	horizontal	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11b-2412
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

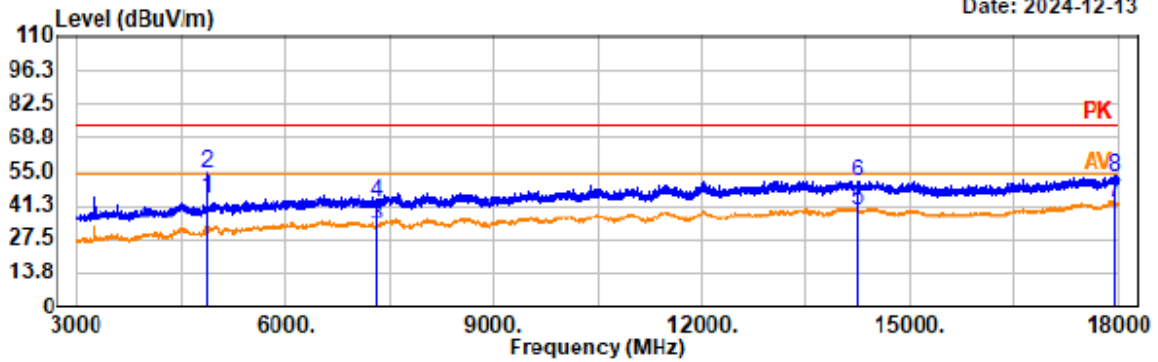
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	45.16	-4.39	40.77	54.00	13.23	vertical	Average
4824.00	56.71	-4.39	52.32	74.00	21.68	vertical	Peak
7236.00	34.46	-1.70	32.76	54.00	21.24	vertical	Average
7236.00	43.68	-1.70	41.98	74.00	32.02	vertical	Peak
14527.50	34.81	4.95	39.76	54.00	14.24	vertical	Average
14527.50	46.91	4.95	51.86	74.00	22.14	vertical	Peak
17998.50	34.42	7.74	42.16	54.00	11.84	vertical	Average
17998.50	45.55	7.74	53.29	74.00	20.71	vertical	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11b-2437
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz

Date: 2024-12-13



Trace: 1

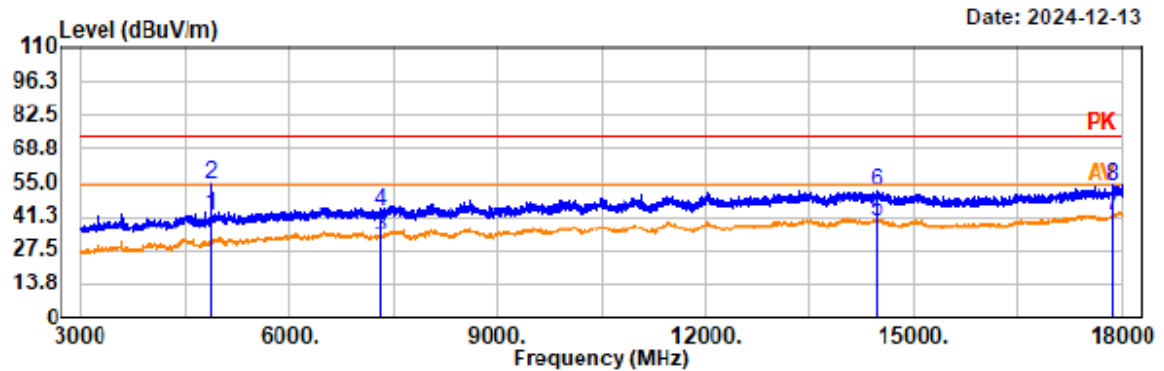
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	48.10	-4.26	43.84	54.00	10.16	horizontal	Average
4874.00	59.09	-4.26	54.83	74.00	19.17	horizontal	Peak
7311.00	34.76	-1.63	33.13	54.00	20.87	horizontal	Average
7311.00	44.30	-1.63	42.67	74.00	31.33	horizontal	Peak
14241.00	34.15	5.24	39.39	54.00	14.61	horizontal	Average
14241.00	45.87	5.24	51.11	74.00	22.89	horizontal	Peak
17943.00	34.91	7.65	42.56	54.00	11.44	horizontal	Average
17943.00	45.41	7.65	53.06	74.00	20.94	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

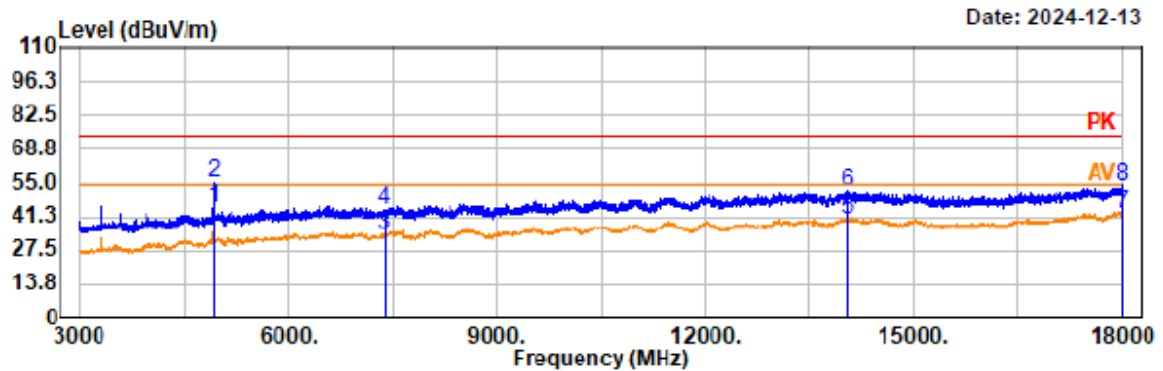
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	45.64	-4.26	41.38	54.00	12.62	vertical	Average
4874.00	58.75	-4.26	54.49	74.00	19.51	vertical	Peak
7311.00	34.88	-1.63	33.25	54.00	20.75	vertical	Average
7311.00	44.75	-1.63	43.12	74.00	30.88	vertical	Peak
14454.00	34.72	5.06	39.78	54.00	14.22	vertical	Average
14454.00	46.57	5.06	51.63	74.00	22.37	vertical	Peak
17880.00	34.31	7.51	41.82	54.00	12.18	vertical	Average
17880.00	46.43	7.51	53.94	74.00	20.06	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

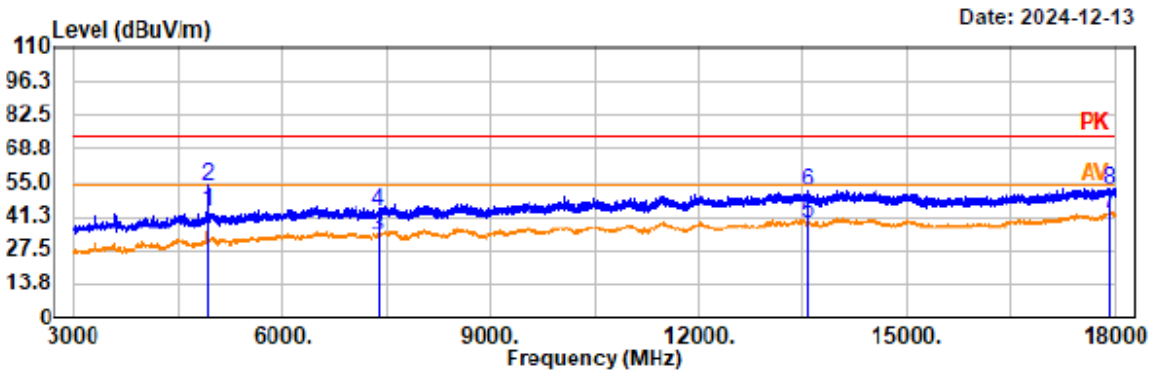
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	48.70	-4.12	44.58	54.00	9.42	horizontal	Average
4924.00	59.54	-4.12	55.42	74.00	18.58	horizontal	Peak
7386.00	35.48	-1.62	33.86	54.00	20.14	horizontal	Average
7386.00	45.93	-1.62	44.31	74.00	29.69	horizontal	Peak
14050.50	35.08	5.16	40.24	54.00	13.76	horizontal	Average
14050.50	46.52	5.16	51.68	74.00	22.32	horizontal	Peak
17998.50	34.50	7.74	42.24	54.00	11.76	horizontal	Average
17998.50	46.11	7.74	53.85	74.00	20.15	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

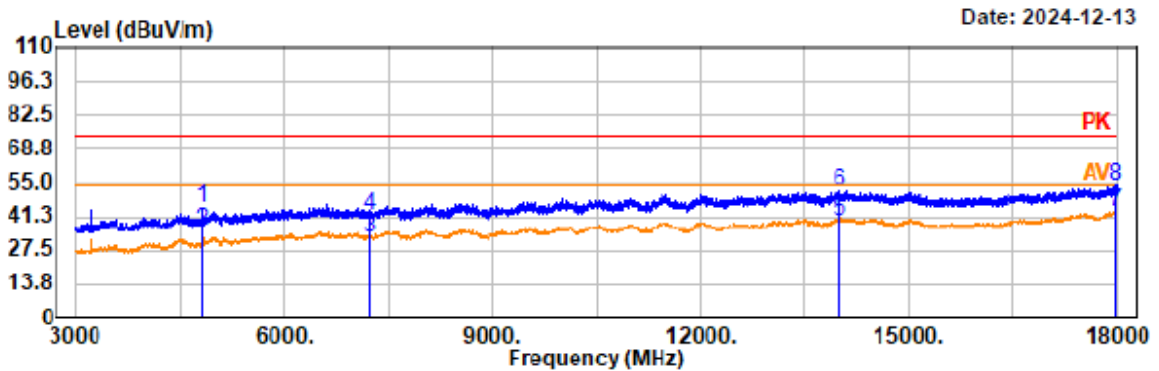
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	47.25	-4.12	43.13	54.00	10.87	vertical	Average
4924.00	58.31	-4.12	54.19	74.00	19.81	vertical	Peak
7386.00	35.30	-1.62	33.68	54.00	20.32	vertical	Average
7386.00	45.16	-1.62	43.54	74.00	30.46	vertical	Peak
13582.50	34.07	4.80	38.87	54.00	15.13	vertical	Average
13582.50	46.89	4.80	51.69	74.00	22.31	vertical	Peak
17923.50	35.05	7.62	42.67	54.00	11.33	vertical	Average
17923.50	44.60	7.62	52.22	74.00	21.78	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

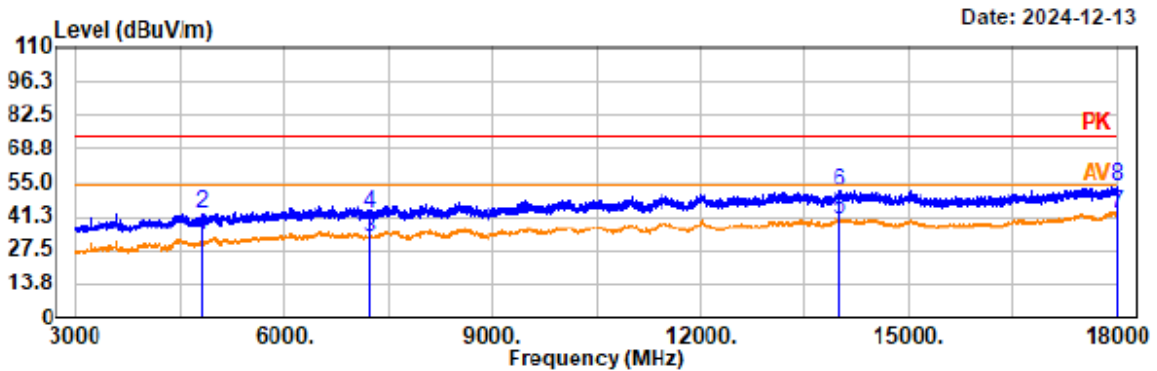
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	48.92	-4.39	44.52	74.00	29.48	horizontal	Peak
4824.00	39.97	-4.39	35.58	54.00	18.42	horizontal	Average
7236.00	34.16	-1.70	32.46	54.00	21.54	horizontal	Average
7236.00	43.68	-1.70	41.98	74.00	32.02	horizontal	Peak
13998.00	34.62	5.09	39.71	54.00	14.29	horizontal	Average
13998.00	46.64	5.09	51.73	74.00	22.27	horizontal	Peak
17979.00	35.24	7.71	42.95	54.00	11.05	horizontal	Average
17979.00	45.93	7.71	53.64	74.00	20.36	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

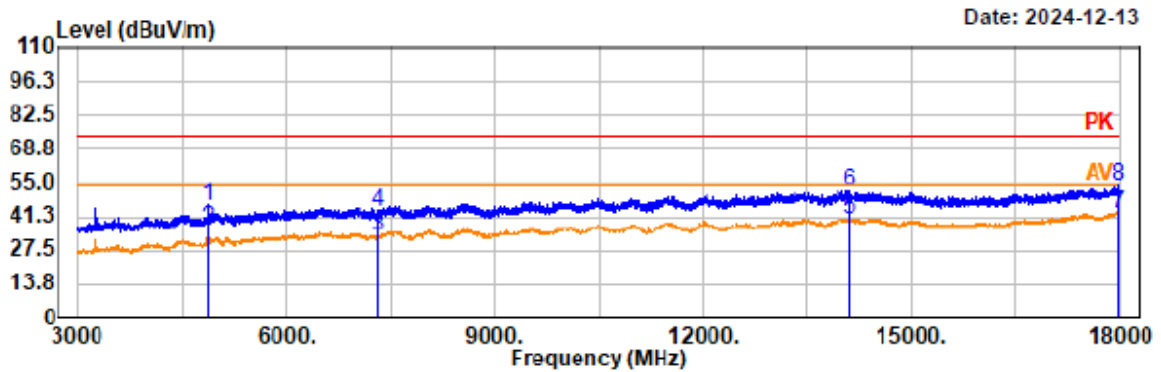
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
4824.00	38.10	-4.39	33.71	54.00	20.29	vertical	Average
4824.00	47.17	-4.39	42.78	74.00	31.22	vertical	Peak
7236.00	34.56	-1.70	32.86	54.00	21.14	vertical	Average
7236.00	43.85	-1.70	42.15	74.00	31.85	vertical	Peak
14008.50	34.85	5.11	39.96	54.00	14.04	vertical	Average
14008.50	46.74	5.11	51.85	74.00	22.15	vertical	Peak
17999.00	34.83	7.74	42.57	54.00	11.43	vertical	Average
17999.99	46.06	7.74	53.80	74.00	20.20	vertical	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11g-2437
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	49.50	-4.26	45.24	74.00	28.76	horizontal	Peak
4874.00	40.55	-4.26	36.29	54.00	17.71	horizontal	Average
7311.00	34.66	-1.63	33.03	54.00	20.97	horizontal	Average
7311.00	44.89	-1.63	43.26	74.00	30.74	horizontal	Peak
14107.50	34.82	5.23	40.05	54.00	13.95	horizontal	Average
14107.50	46.63	5.23	51.86	74.00	22.14	horizontal	Peak
17985.00	34.50	7.72	42.22	54.00	11.78	horizontal	Average
17985.00	45.99	7.72	53.71	74.00	20.29	horizontal	Peak

Project No.: 2407X35401E-RF

Test Mode: 11g-2437

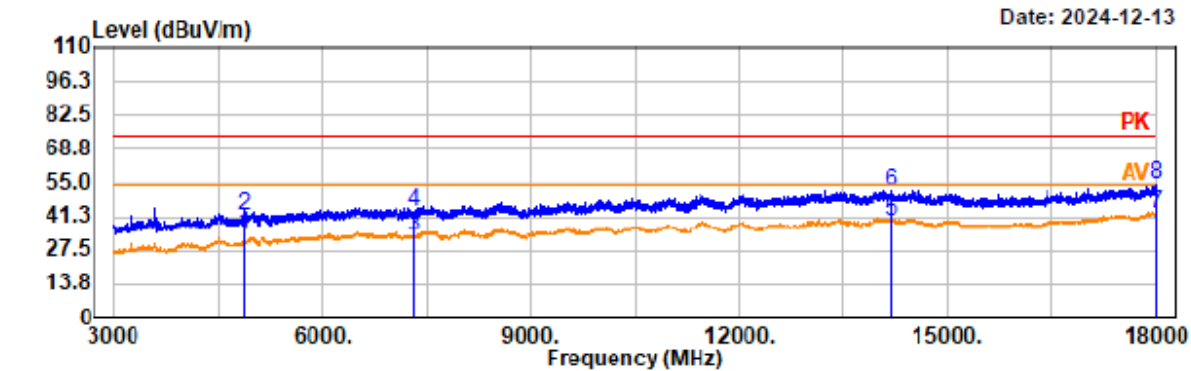
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

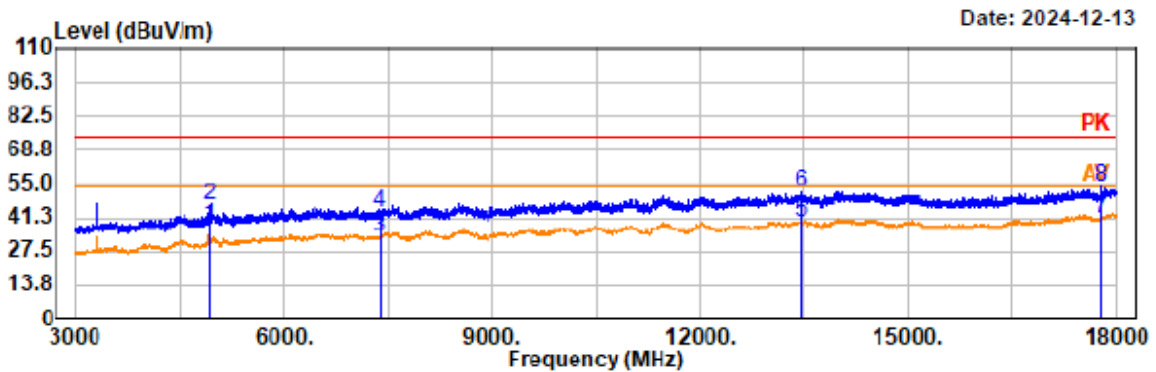


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	38.55	-4.26	34.29	54.00	19.71	horizontal	Average
4874.00	46.06	-4.26	41.80	74.00	32.20	vertical	Peak
7311.00	34.90	-1.63	33.27	54.00	20.73	horizontal	Average
7311.00	44.96	-1.63	43.33	74.00	30.67	vertical	Peak
14193.00	34.26	5.26	39.52	54.00	14.48	horizontal	Average
14193.00	46.33	5.26	51.59	74.00	22.41	vertical	Peak
17999.99	34.67	7.74	42.41	54.00	11.59	horizontal	Average
17999.99	46.83	7.74	54.57	74.00	19.43	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



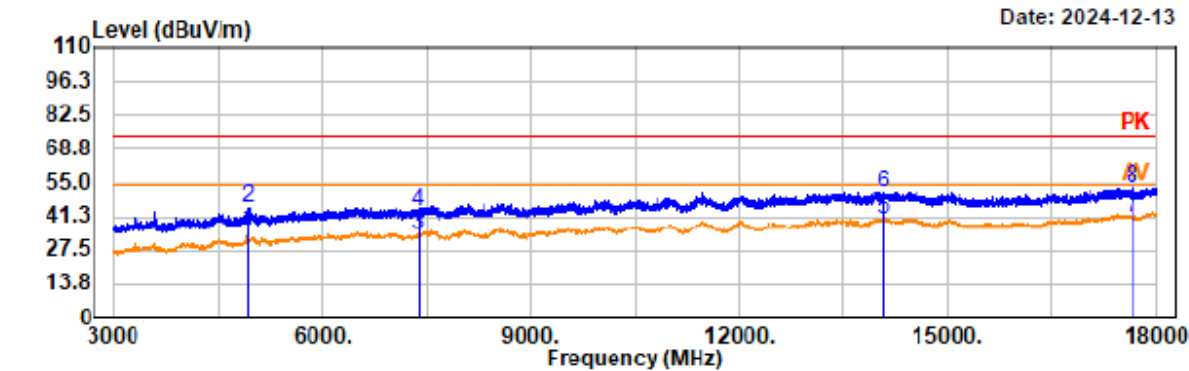
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	42.02	-4.12	37.90	54.00	16.10	horizontal	Average
4924.00	50.49	-4.12	46.37	74.00	27.63	horizontal	Peak
7386.00	35.20	-1.62	33.58	54.00	20.42	horizontal	Average
7386.00	44.92	-1.62	43.30	74.00	30.70	horizontal	Peak
13458.00	34.47	4.83	39.30	54.00	14.70	horizontal	Average
13458.00	46.92	4.83	51.75	74.00	22.25	horizontal	Peak
17784.00	33.81	7.18	40.99	54.00	13.01	horizontal	Average
17784.00	46.44	7.18	53.62	74.00	20.38	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



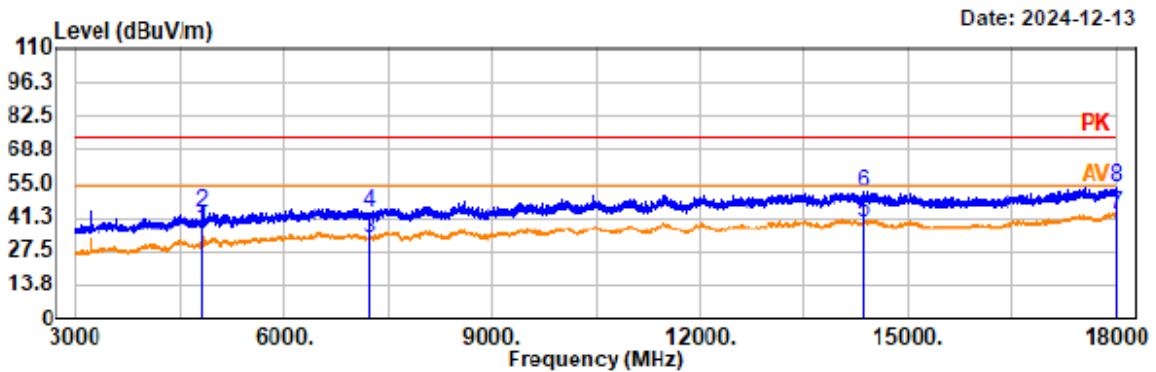
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	40.12	-4.12	36.00	54.00	18.00	vertical	Average
4924.00	49.13	-4.12	45.01	74.00	28.99	vertical	Peak
7386.00	35.65	-1.62	34.03	54.00	19.97	vertical	Average
7386.00	44.78	-1.62	43.16	74.00	30.84	vertical	Peak
14089.50	34.88	5.22	40.10	54.00	13.90	vertical	Average
14089.50	45.94	5.22	51.16	74.00	22.84	vertical	Peak
17658.00	34.14	6.78	40.92	54.00	13.08	vertical	Average
17658.00	46.18	6.78	52.96	74.00	21.04	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

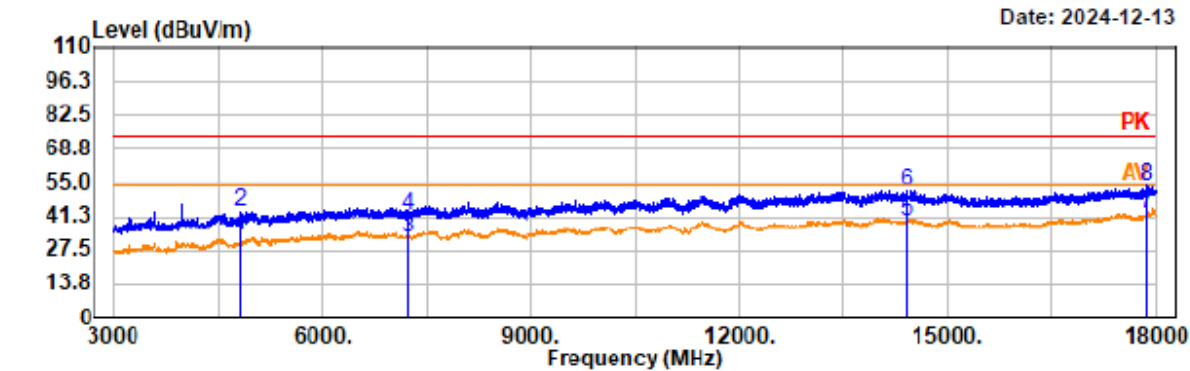
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	41.18	-4.39	36.79	54.00	17.21	horizontal	Average
4824.00	47.61	-4.39	43.22	74.00	30.78	horizontal	Peak
7236.00	34.36	-1.70	32.66	54.00	21.34	horizontal	Average
7236.00	44.72	-1.70	43.02	74.00	30.98	horizontal	Peak
14365.50	34.10	5.16	39.26	54.00	14.74	horizontal	Average
14365.50	46.58	5.16	51.74	74.00	22.26	horizontal	Peak
17999.99	34.90	7.74	42.64	54.00	11.36	horizontal	Average
17999.99	45.97	7.74	53.71	74.00	20.29	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



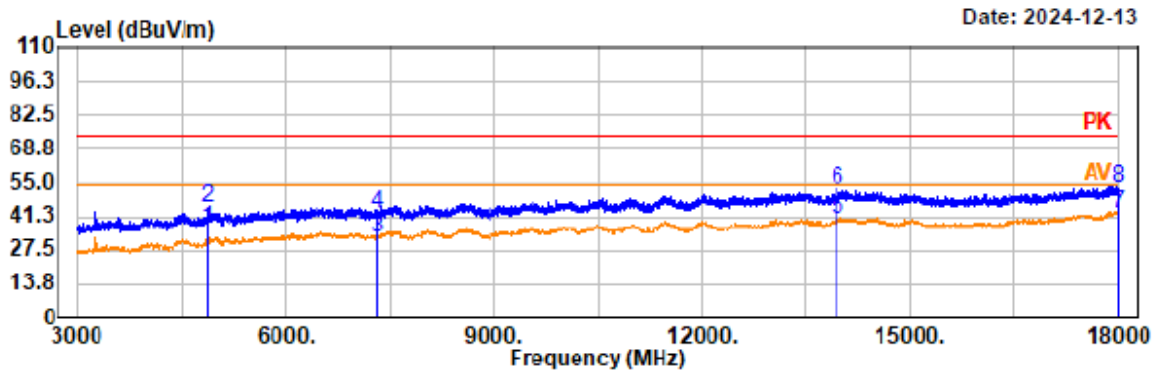
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	37.95	-4.39	33.56	54.00	20.44	vertical	Average
4824.00	47.35	-4.39	42.96	74.00	31.04	vertical	Peak
7236.00	34.43	-1.70	32.73	54.00	21.27	vertical	Average
7236.00	43.20	-1.70	41.50	74.00	32.50	vertical	Peak
14416.50	34.33	5.11	39.44	54.00	14.56	vertical	Average
14416.50	46.57	5.11	51.68	74.00	22.32	vertical	Peak
17871.00	34.89	7.49	42.38	54.00	11.62	vertical	Average
17871.00	46.03	7.49	53.52	74.00	20.48	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

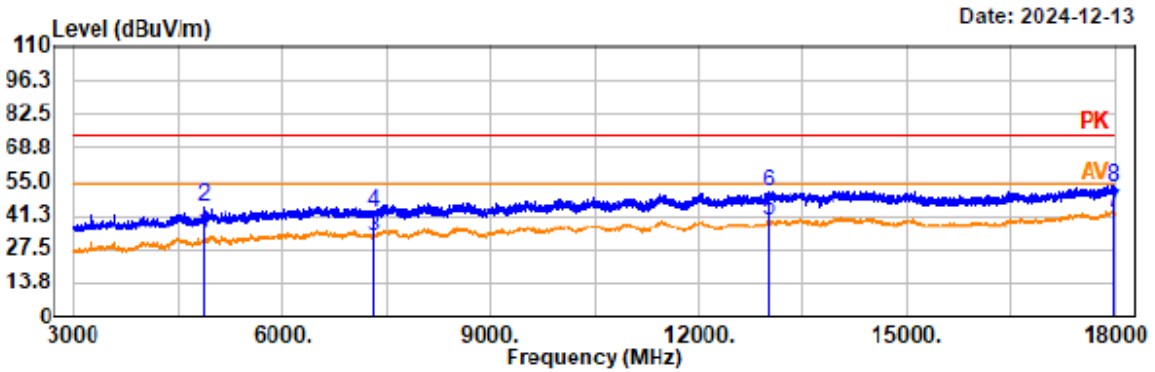
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	40.84	-4.26	36.58	54.00	17.42	horizontal	Average
4874.00	49.03	-4.26	44.77	74.00	29.23	horizontal	Peak
7311.00	34.52	-1.63	32.89	54.00	21.11	horizontal	Average
7311.00	44.19	-1.63	42.56	74.00	31.44	horizontal	Peak
13956.00	34.91	5.10	40.01	54.00	13.99	horizontal	Average
13956.00	46.99	5.10	52.09	74.00	21.91	horizontal	Peak
17999.99	34.66	7.74	42.40	54.00	11.60	horizontal	Average
17999.99	45.68	7.74	53.42	74.00	20.58	horizontal	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11n20-2437
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



Trace: 1

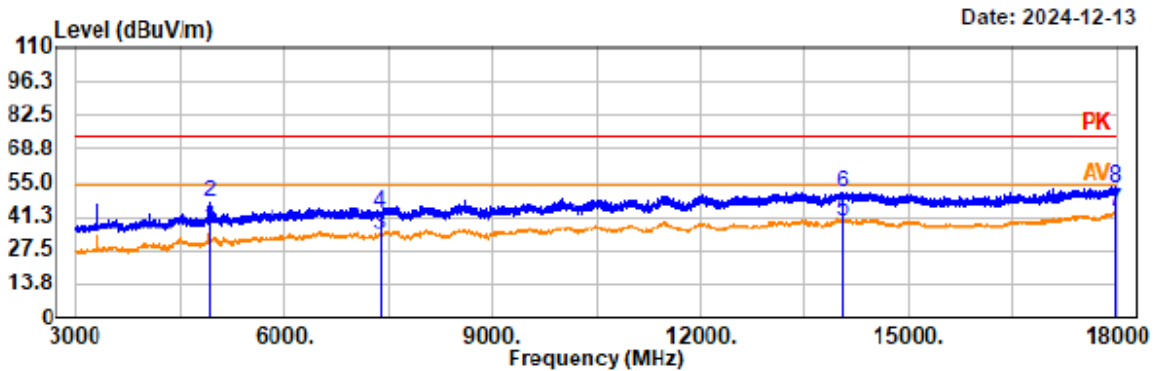
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	38.43	-4.26	34.17	54.00	19.83	vertical	Average
4874.00	48.66	-4.26	44.40	74.00	29.60	vertical	Peak
7311.00	34.52	-1.63	32.89	54.00	21.11	vertical	Average
7311.00	44.47	-1.63	42.84	74.00	31.16	vertical	Peak
12999.00	34.11	5.18	39.29	54.00	14.71	vertical	Average
12999.00	45.85	5.18	51.03	74.00	22.97	vertical	Peak
17971.50	34.76	7.69	42.45	54.00	11.55	vertical	Average
17971.50	45.31	7.69	53.00	74.00	21.00	vertical	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11n20-2462
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



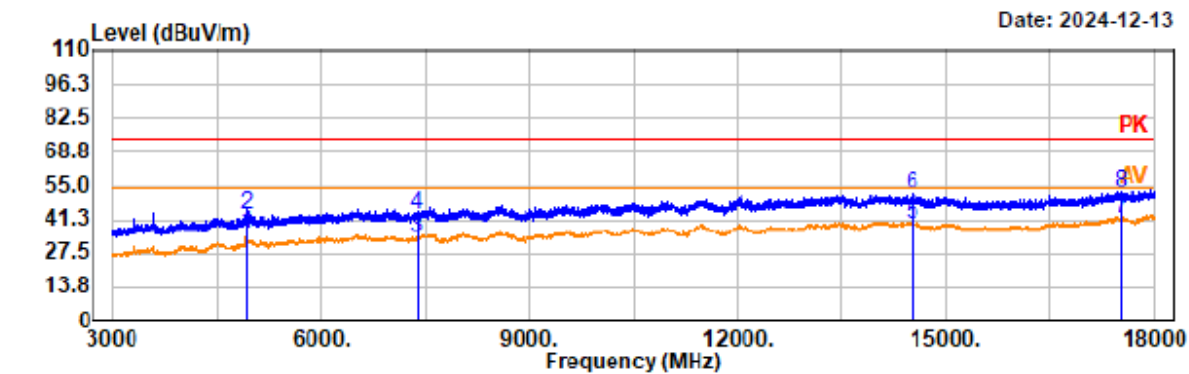
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	40.29	-4.12	36.17	54.00	17.83	horizontal	Average
4924.00	51.28	-4.12	47.16	74.00	26.84	horizontal	Peak
7386.00	35.52	-1.62	33.90	54.00	20.10	horizontal	Average
7386.00	44.18	-1.62	42.56	74.00	31.44	horizontal	Peak
14061.00	34.65	5.17	39.82	54.00	14.18	horizontal	Average
14061.00	45.95	5.17	51.12	74.00	22.88	horizontal	Peak
17970.00	35.20	7.69	42.89	54.00	11.11	horizontal	Average
17970.00	45.37	7.69	53.06	74.00	20.94	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

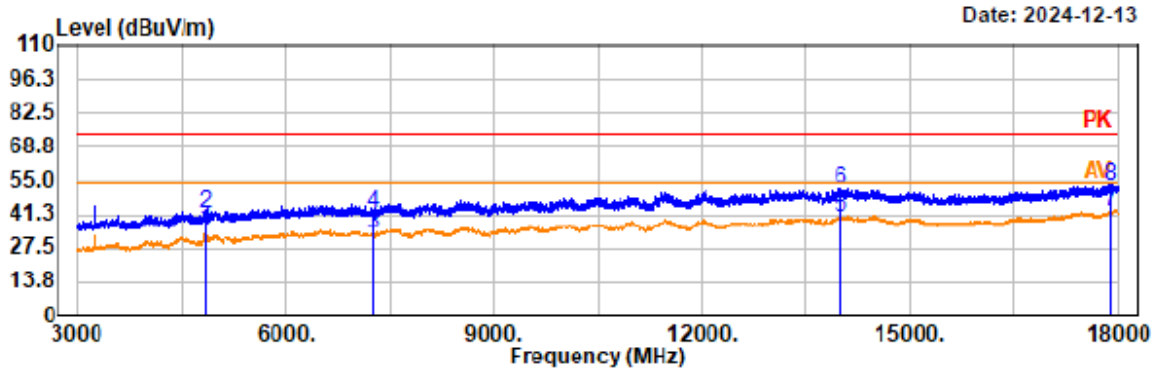


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	39.73	-4.12	35.61	54.00	18.39	vertical	Average
4924.50	47.43	-4.12	43.31	74.00	30.69	vertical	Peak
7386.00	35.59	-1.62	33.97	54.00	20.03	vertical	Average
7386.00	44.99	-1.62	43.37	74.00	30.63	vertical	Peak
14515.50	34.73	4.96	39.69	54.00	14.31	vertical	Average
14515.50	46.34	4.96	51.30	74.00	22.70	vertical	Peak
17524.50	35.40	6.36	41.76	54.00	12.24	vertical	Average
17524.50	46.35	6.36	52.71	74.00	21.29	vertical	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11n40-2422
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



Trace: 1

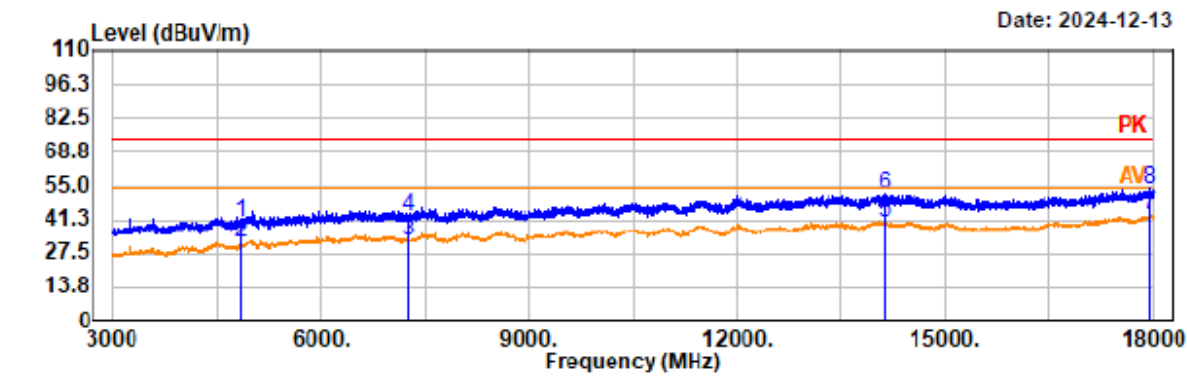
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4844.00	39.04	-4.34	34.70	54.00	19.30	horizontal	Average
4844.00	45.89	-4.34	41.55	74.00	32.45	horizontal	Peak
7266.00	34.81	-1.66	33.15	54.00	20.85	horizontal	Average
7266.00	43.46	-1.66	41.80	74.00	32.20	horizontal	Peak
14005.50	34.94	5.10	40.04	54.00	13.96	horizontal	Average
14005.50	46.50	5.10	51.60	74.00	22.40	horizontal	Peak
17896.50	34.66	7.58	42.24	54.00	11.76	horizontal	Average
17896.50	45.56	7.58	53.14	74.00	20.86	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2422
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



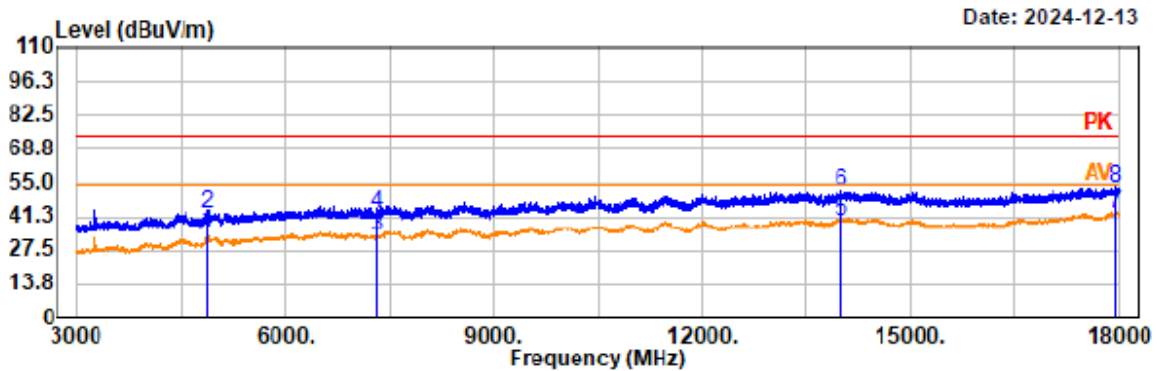
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4844.00	44.33	-4.34	39.99	74.00	34.01	vertical	Peak
4844.00	36.14	-4.34	31.80	54.00	22.20	vertical	Average
7266.00	34.35	-1.66	32.69	54.00	21.31	vertical	Average
7266.00	44.47	-1.66	42.81	74.00	31.19	vertical	Peak
14143.50	34.81	5.24	40.05	54.00	13.95	vertical	Average
14143.50	46.13	5.24	51.37	74.00	22.63	vertical	Peak
17962.50	35.60	7.68	43.28	54.00	10.72	vertical	Average
17962.50	46.04	7.68	53.72	74.00	20.28	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

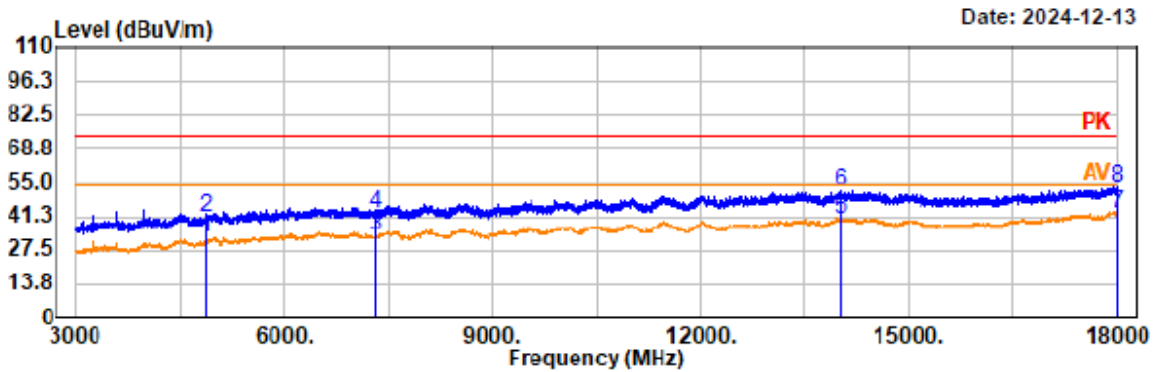
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	38.80	-4.26	34.54	54.00	19.46	horizontal	Average
4874.00	46.37	-4.26	42.11	74.00	31.89	horizontal	Peak
7311.00	34.93	-1.63	33.30	54.00	20.70	horizontal	Average
7311.00	43.97	-1.63	42.34	74.00	31.66	horizontal	Peak
13998.00	34.73	5.09	39.82	54.00	14.18	horizontal	Average
13998.00	46.33	5.09	51.42	74.00	22.58	horizontal	Peak
17941.50	35.17	7.65	42.82	54.00	11.18	horizontal	Average
17941.50	45.52	7.65	53.17	74.00	20.83	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2437
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

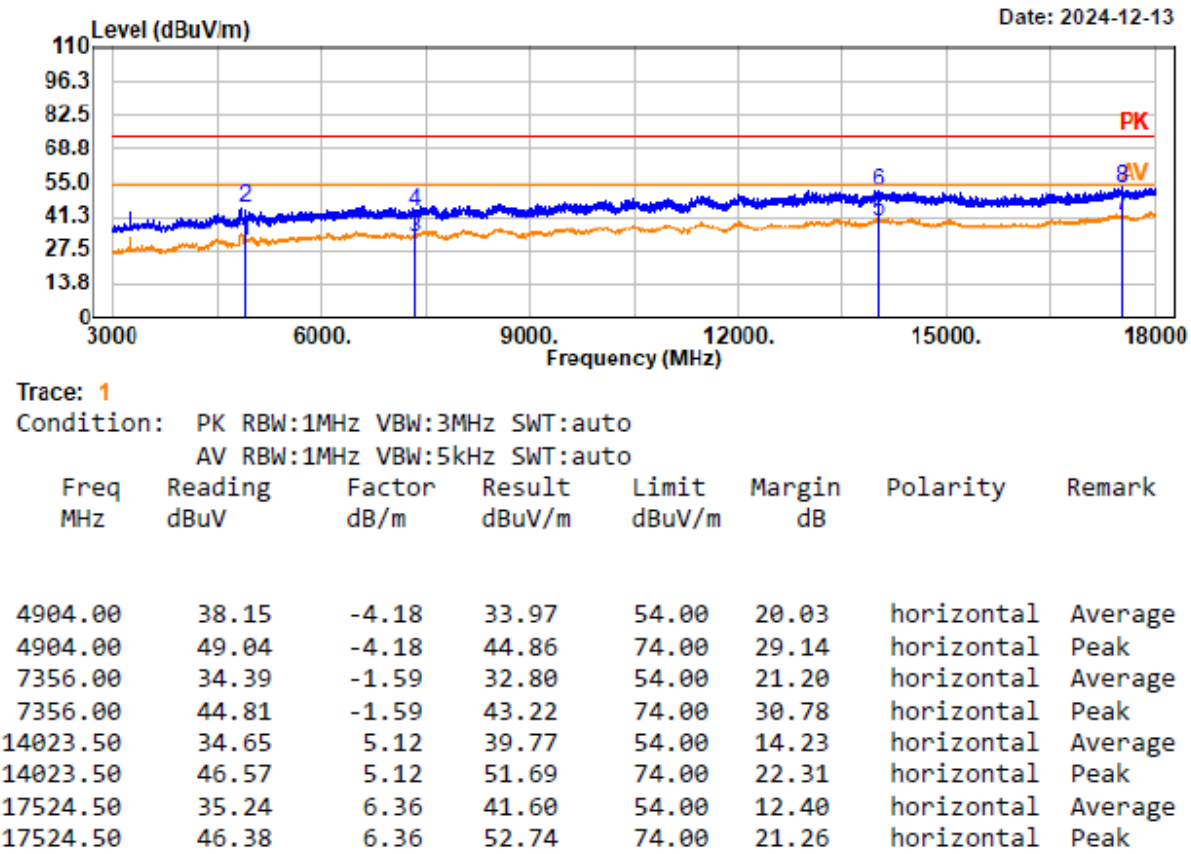
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	36.65	-4.26	32.39	54.00	21.61	vertical	Average
4874.00	44.96	-4.26	40.70	74.00	33.30	vertical	Peak
7311.00	34.76	-1.63	33.13	54.00	20.87	vertical	Average
7311.00	43.86	-1.63	42.23	74.00	31.77	vertical	Peak
14023.50	35.07	5.12	40.19	54.00	13.81	vertical	Average
14023.50	46.48	5.12	51.60	74.00	22.40	vertical	Peak
17997.00	34.57	7.74	42.31	54.00	11.69	vertical	Average
17997.00	45.64	7.74	53.38	74.00	20.62	vertical	Peak

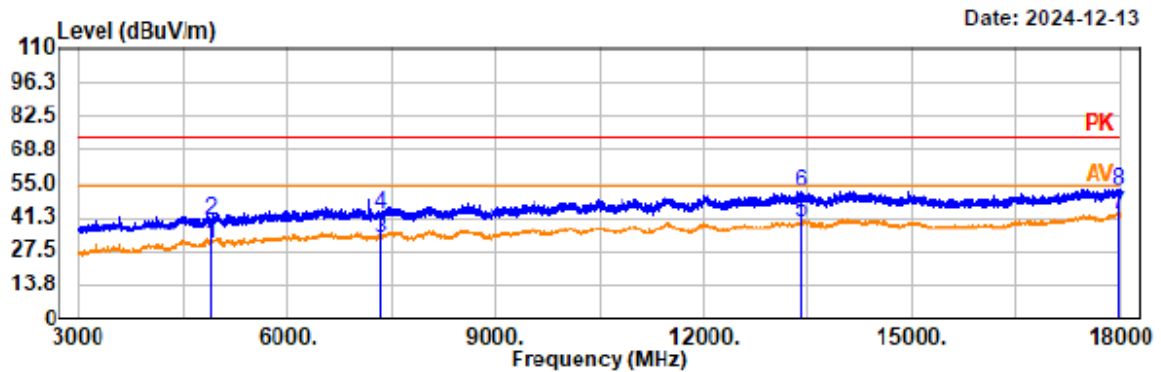
Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4904.00	34.76	-4.18	30.58	54.00	23.42	vertical	Average
4904.00	44.66	-4.18	40.48	74.00	33.52	vertical	Peak
7356.00	34.30	-1.59	32.71	54.00	21.29	vertical	Average
7356.00	44.26	-1.59	42.67	74.00	31.33	vertical	Peak
13401.00	34.41	4.83	39.24	54.00	14.76	vertical	Average
13401.00	47.00	4.83	51.83	74.00	22.17	vertical	Peak
17985.00	34.45	7.72	42.17	54.00	11.83	vertical	Average
17985.00	44.98	7.72	52.70	74.00	21.30	vertical	Peak

5) 18GHz~25GHz

Note: The maximum output power mode: Wifi 802.11b middle channel was tested.

Project No.: 2407X35401E-RF

Test Mode: 11b-2437

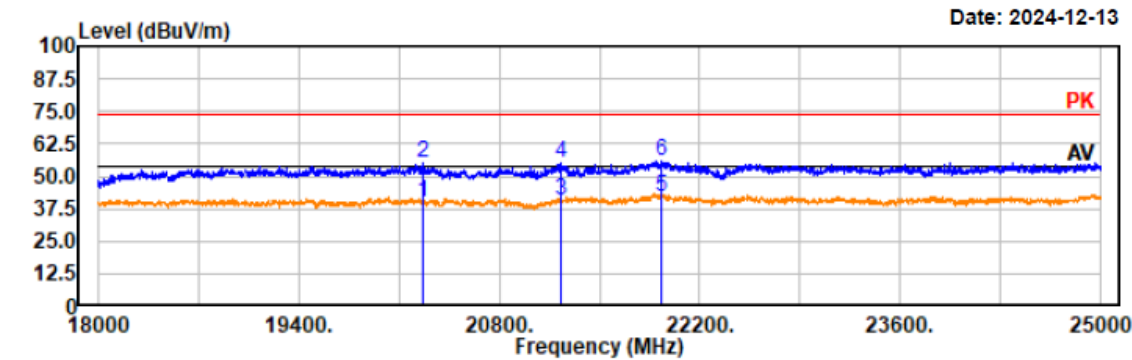
EUT Model: YS-TT1MPLUS

Test distance: 1.5m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



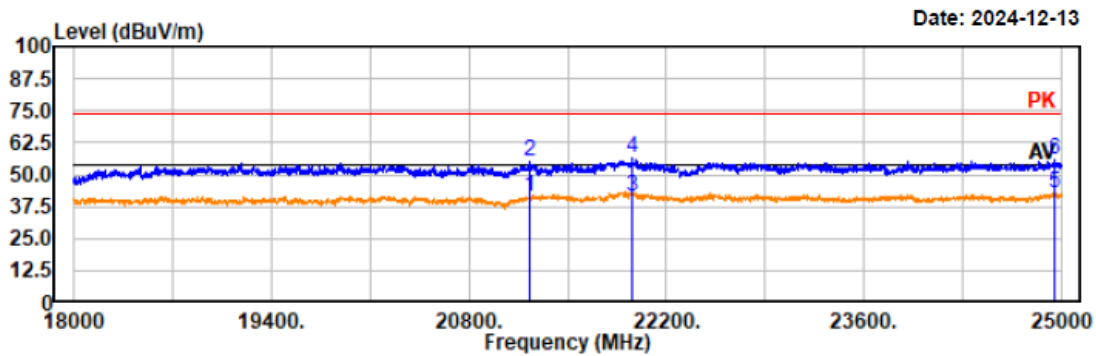
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
20268.20	36.20	3.95	40.15	54.00	13.85	horizontal	Average
20268.20	51.29	3.95	55.24	74.00	18.76	horizontal	Peak
21234.00	36.72	4.20	40.92	54.00	13.08	horizontal	Average
21234.00	50.80	4.20	55.00	74.00	19.00	horizontal	Peak
21935.80	36.55	5.20	41.75	54.00	12.25	horizontal	Average
21935.80	50.43	5.20	55.63	74.00	18.37	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2437
EUT Model: YS-TT1MPLUS
Test distance: 1.5m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21234.00	37.30	4.20	41.50	54.00	12.50	vertical	Average
21234.00	50.87	4.20	55.07	74.00	18.93	vertical	Peak
21962.20	36.50	5.22	41.72	54.00	12.28	vertical	Average
21962.20	51.00	5.22	56.22	74.00	17.78	vertical	Peak
24952.00	36.23	6.32	42.55	54.00	11.45	vertical	Average
24952.00	49.77	6.32	56.09	74.00	17.91	vertical	Peak

Bandedges Emissions:

Project No.: 2407X35401E-RF

Test Mode: 11b-2412

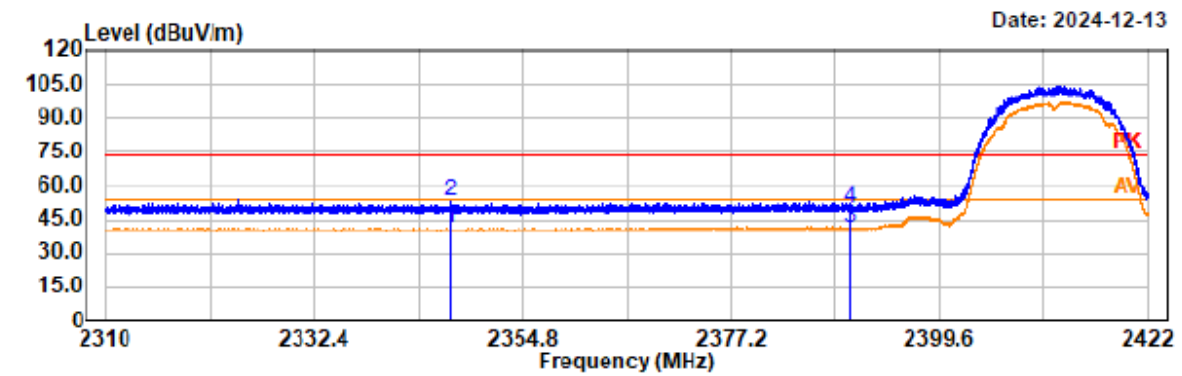
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Trace: 1

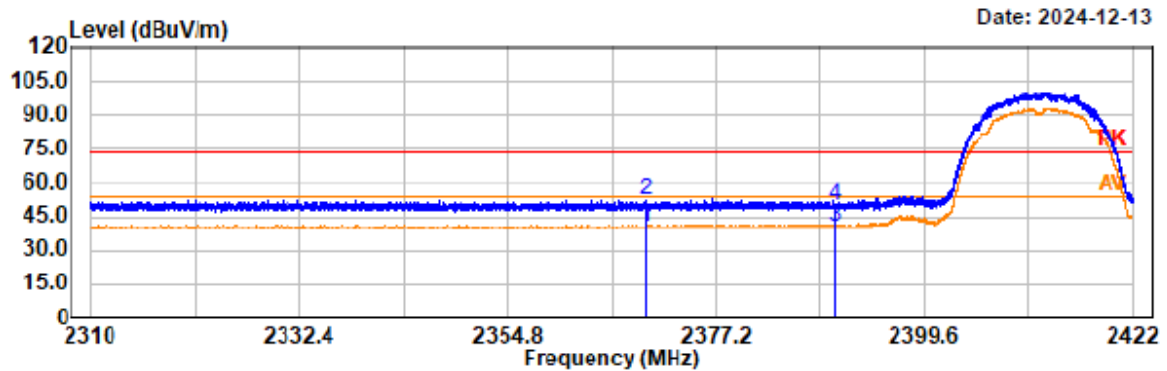
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2347.07	35.87	5.15	41.02	54.00	12.98	horizontal	Average
2347.15	47.77	5.15	52.92	74.00	21.08	horizontal	Peak
2390.00	35.94	5.37	41.31	54.00	12.69	horizontal	Average
2390.00	44.35	5.37	49.72	74.00	24.28	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

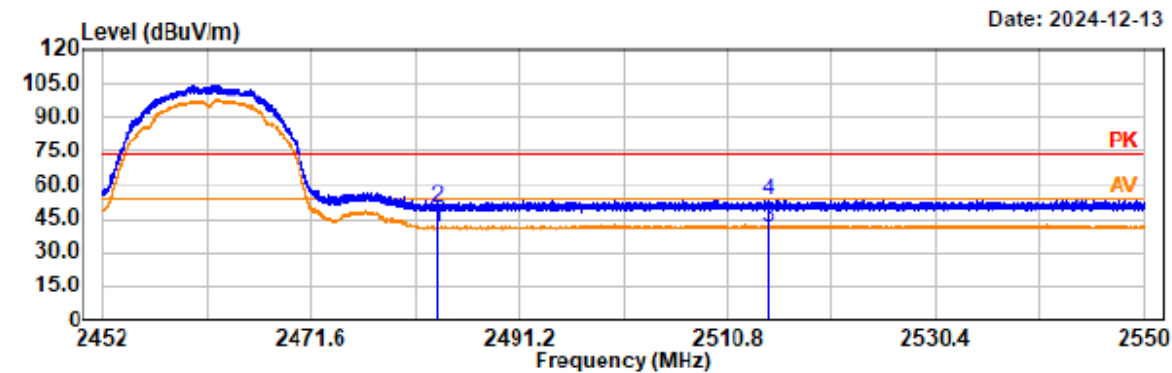
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2369.66	35.59	5.27	40.86	54.00	13.14	vertical	Average
2369.69	47.00	5.27	52.27	74.00	21.73	vertical	Peak
2390.00	35.29	5.37	40.66	54.00	13.34	vertical	Average
2390.00	44.45	5.37	49.82	74.00	24.18	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11b-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.55	5.83	41.38	54.00	12.62	horizontal	Average
2483.50	43.91	5.83	49.74	74.00	24.26	horizontal	Peak
2514.55	35.37	5.93	41.30	54.00	12.70	horizontal	Average
2514.55	47.29	5.93	53.22	74.00	20.78	horizontal	Peak

Project No.: 2407X35401E-RF

Test Mode: 11b-2462

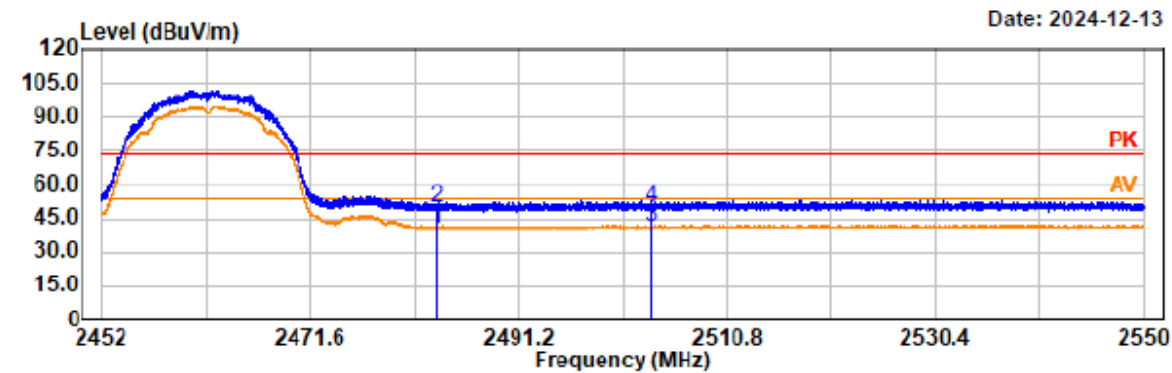
EUT Model: YS-TT1MPLUS

Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Trace: 1

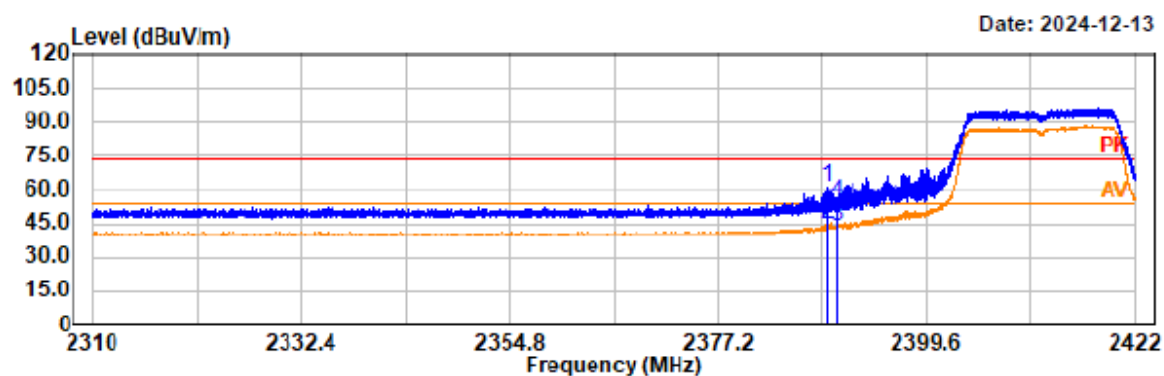
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.01	5.83	40.84	54.00	13.16	vertical	Average
2483.50	43.42	5.83	49.25	74.00	24.75	vertical	Peak
2503.74	35.27	5.93	41.20	54.00	12.80	vertical	Average
2503.74	43.96	5.93	49.89	74.00	24.11	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



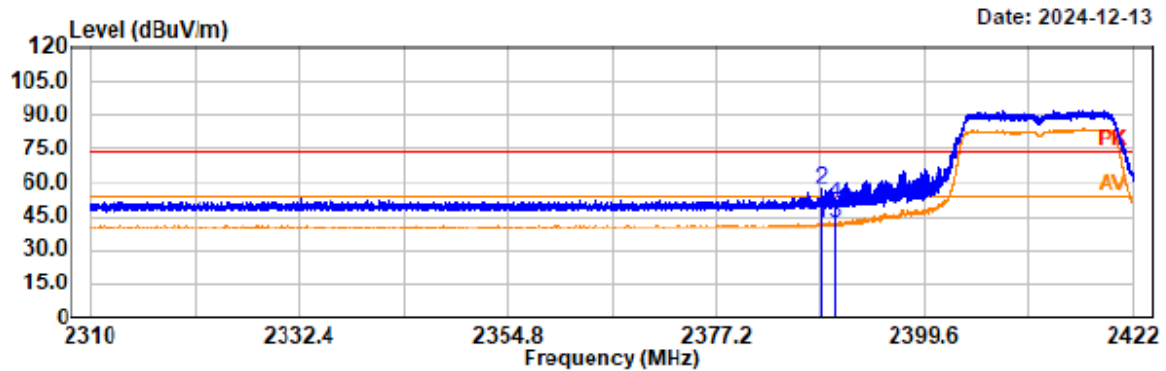
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2388.92	55.99	5.37	61.36	74.00	12.64	horizontal	Peak
2388.94	39.56	5.37	44.93	54.00	9.07	horizontal	Average
2390.00	38.43	5.37	43.80	54.00	10.20	horizontal	Average
2390.00	48.91	5.37	54.28	74.00	19.72	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



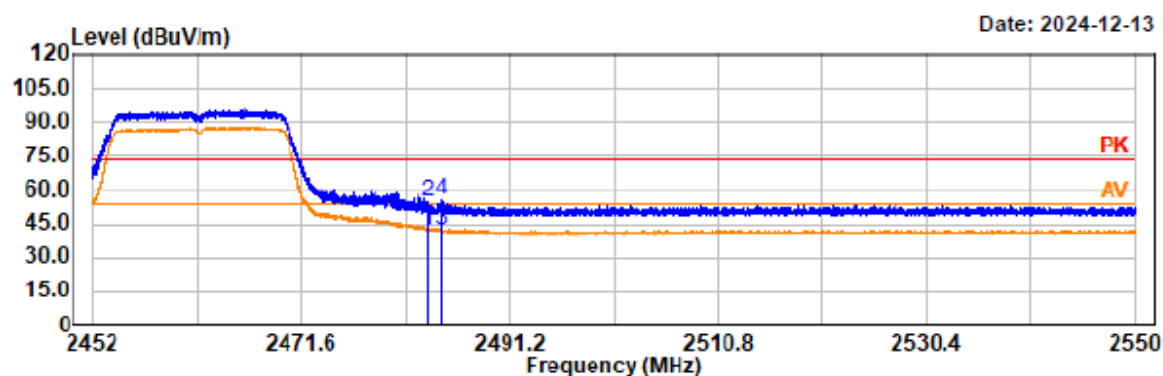
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2388.60	37.02	5.36	42.38	54.00	11.62	vertical	Average
2388.61	51.40	5.36	56.76	74.00	17.24	vertical	Peak
2390.00	36.45	5.37	41.82	54.00	12.18	vertical	Average
2390.00	44.96	5.37	50.33	74.00	23.67	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

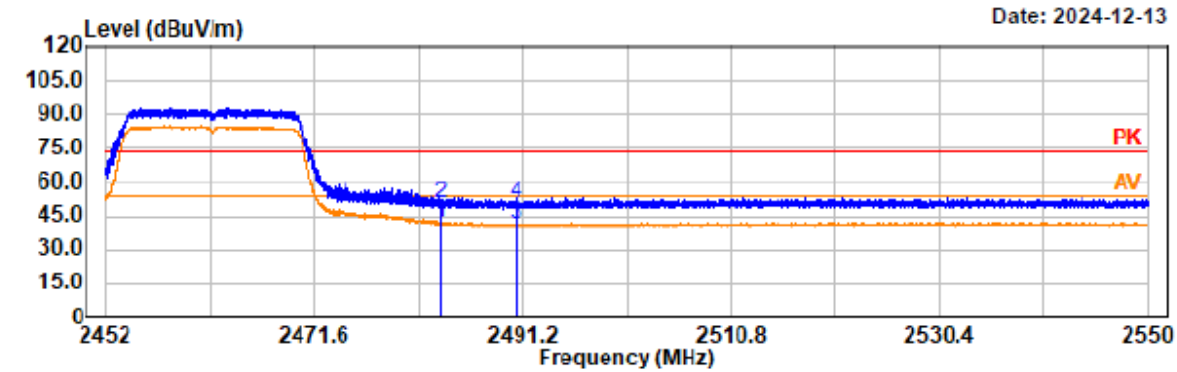
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.56	5.83	42.39	54.00	11.61	horizontal	Average
2483.50	48.69	5.83	54.52	74.00	19.48	horizontal	Peak
2484.80	36.58	5.84	42.42	54.00	11.58	horizontal	Average
2484.80	49.79	5.84	55.63	74.00	18.37	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11g-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



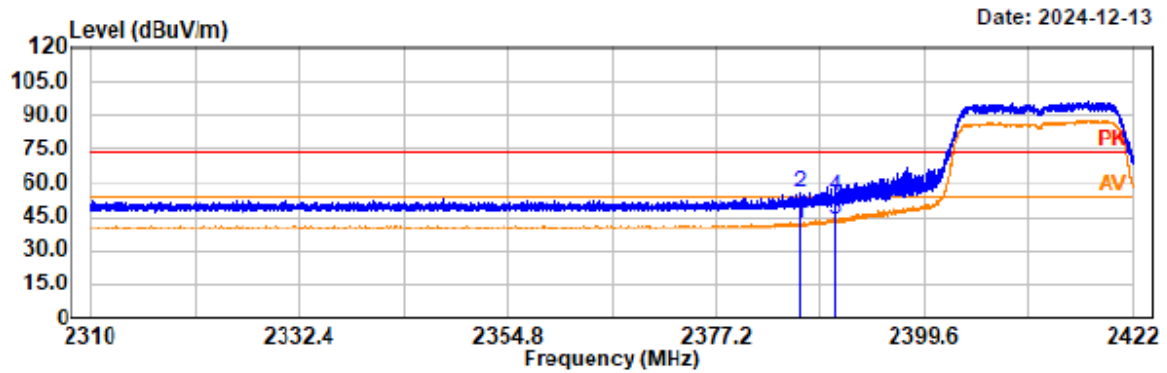
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.33	5.83	42.16	54.00	11.84	vertical	Average
2483.50	44.91	5.83	50.74	74.00	23.26	vertical	Peak
2490.56	35.32	5.87	41.19	54.00	12.81	vertical	Average
2490.56	44.21	5.87	50.08	74.00	23.92	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2412
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



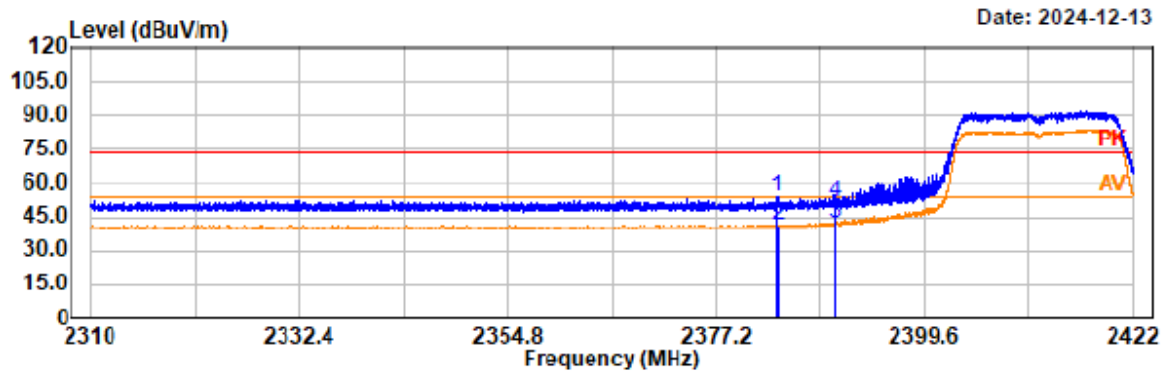
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2386.21	36.87	5.34	42.21	54.00	11.79	horizontal	Average
2386.24	49.97	5.34	55.31	74.00	18.69	horizontal	Peak
2390.00	38.23	5.37	43.60	54.00	10.40	horizontal	Average
2390.00	48.29	5.37	53.66	74.00	20.34	horizontal	Peak

Project No.: 2407X35401E-RF
 Test Mode: 11n20-2412
 EUT Model: YS-TT1MPLUS
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



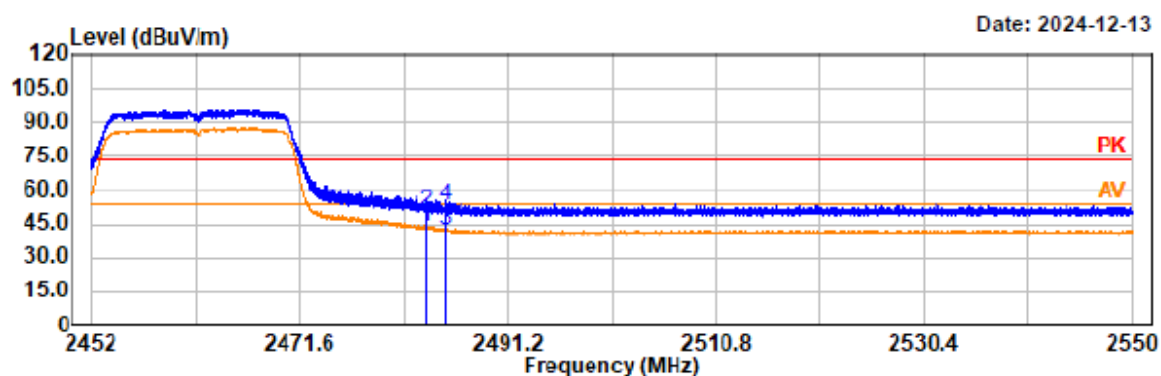
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2383.84	48.56	5.33	53.89	74.00	20.11	vertical	Peak
2383.89	35.98	5.33	41.31	54.00	12.69	vertical	Average
2390.00	36.63	5.37	42.00	54.00	12.00	vertical	Average
2390.00	45.99	5.37	51.36	74.00	22.64	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



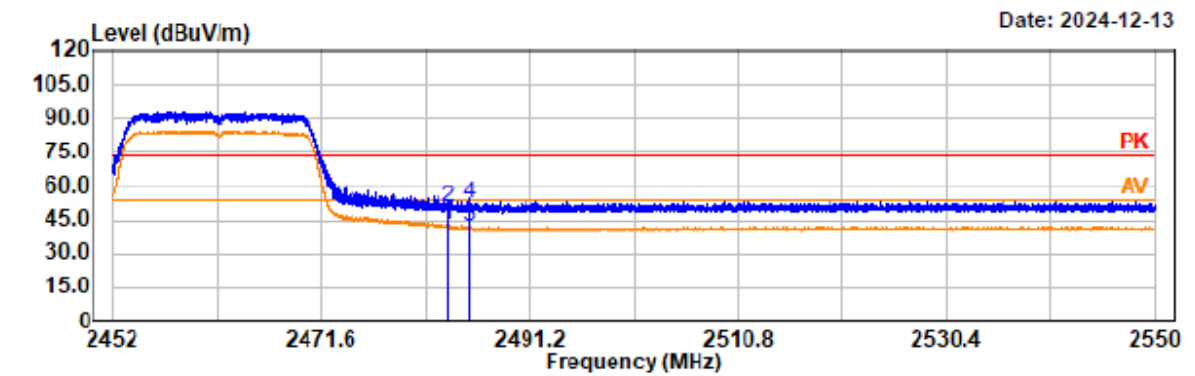
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.71	5.83	43.54	54.00	10.46	horizontal	Average
2483.50	44.50	5.83	50.33	74.00	23.67	horizontal	Peak
2485.28	36.22	5.84	42.06	54.00	11.94	horizontal	Average
2485.28	47.11	5.84	52.95	74.00	21.05	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n20-2462
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



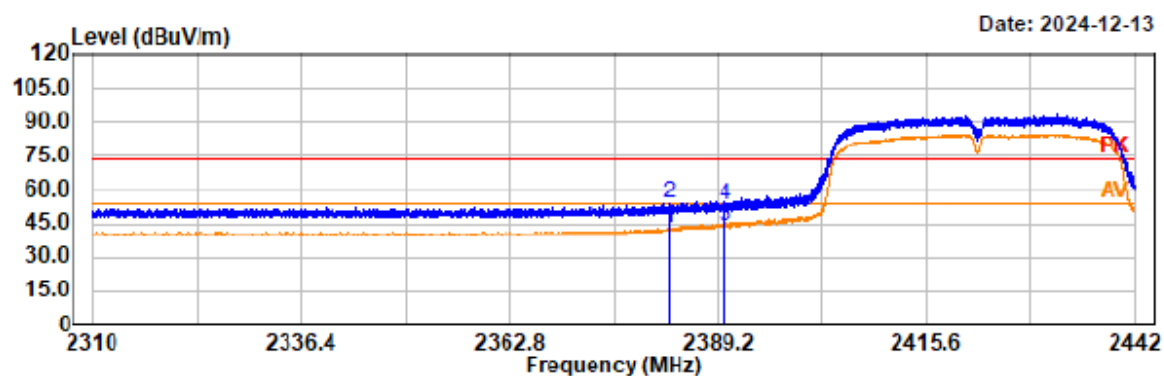
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.87	5.83	42.70	54.00	11.30	vertical	Average
2483.50	44.55	5.83	50.38	74.00	23.62	vertical	Peak
2485.43	36.05	5.84	41.89	54.00	12.11	vertical	Average
2485.43	45.92	5.84	51.76	74.00	22.24	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2422
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



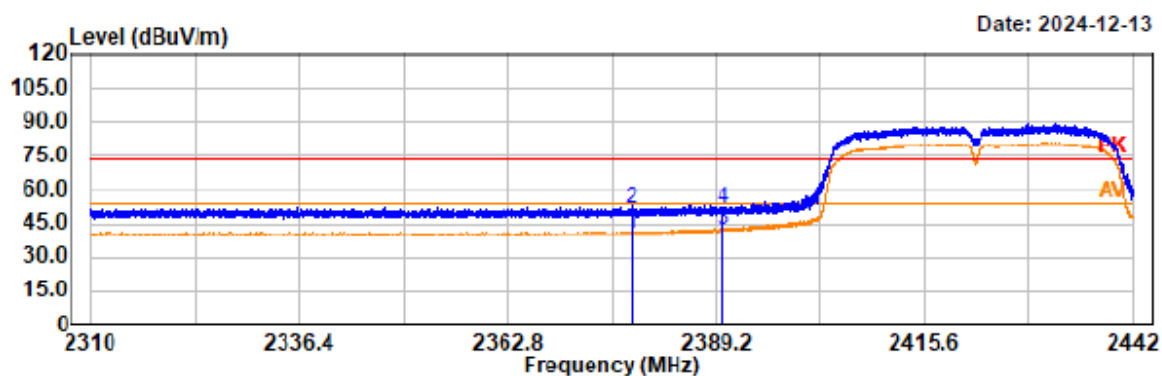
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2382.96	37.44	5.32	42.76	54.00	11.24	horizontal	Average
2382.96	48.55	5.32	53.87	74.00	20.13	horizontal	Peak
2390.01	38.57	5.37	43.94	54.00	10.06	horizontal	Average
2390.01	47.69	5.37	53.06	74.00	20.94	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2422
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

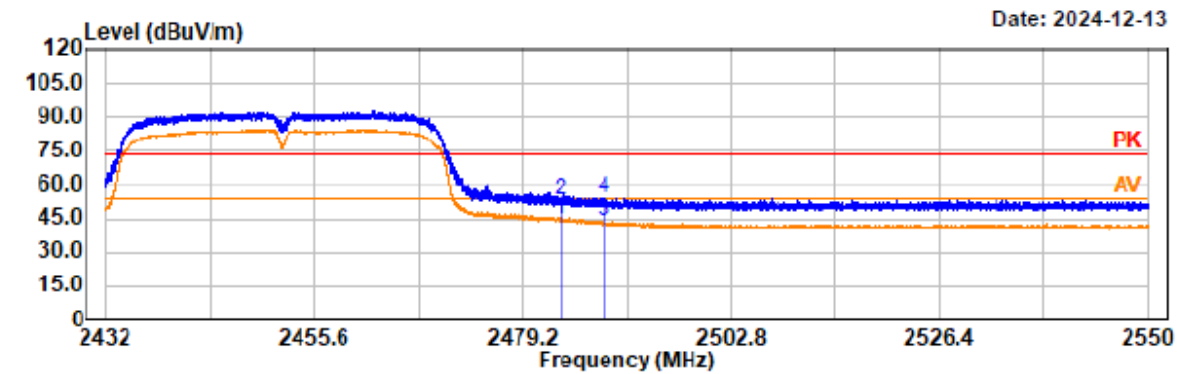
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2378.48	35.42	5.30	40.72	54.00	13.28	vertical	Average
2378.48	46.36	5.30	51.66	74.00	22.34	vertical	Peak
2390.01	36.79	5.37	42.16	54.00	11.84	vertical	Average
2390.01	45.91	5.37	51.28	74.00	22.72	vertical	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



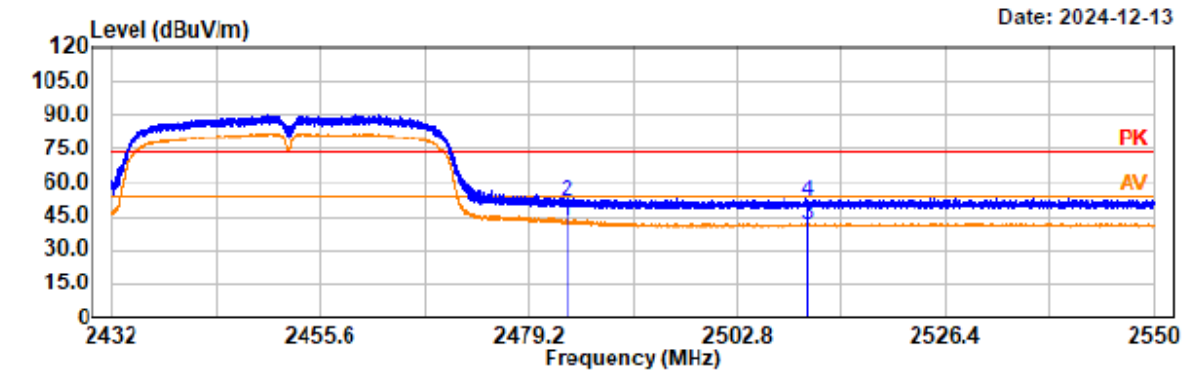
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	38.55	5.83	44.38	54.00	9.62	horizontal	Average
2483.50	46.92	5.83	52.75	74.00	21.25	horizontal	Peak
2488.29	38.20	5.85	44.05	54.00	9.95	horizontal	Average
2488.29	48.11	5.85	53.96	74.00	20.04	horizontal	Peak

Project No.: 2407X35401E-RF
Test Mode: 11n40-2452
EUT Model: YS-TT1MPLUS
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.55	5.83	43.38	54.00	10.62	vertical	Average
2483.50	45.34	5.83	51.17	74.00	22.83	vertical	Peak
2510.67	35.30	5.93	41.23	54.00	12.77	vertical	Average
2510.67	45.41	5.93	51.34	74.00	22.66	vertical	Peak

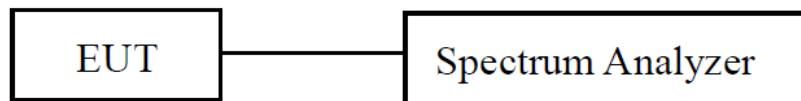
FCC §15.247(a) (2) & RSS-247 Clause 5.2 a- 6 dB EMISSION BANDWIDTH**Applicable Standard**

FCC§15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

RSS-247 Clause 5.2 a

The minimum 6 dB bandwidth shall be 500 kHz.

EUT Setup**Test Procedure**

According to ANSI C63.10-2013 Section 11.8

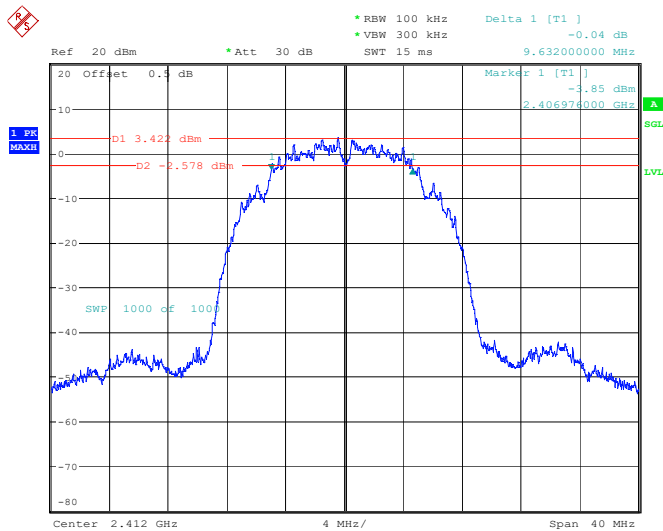
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the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

Test Data

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm : 100.2kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	9.632	0.5
	2437	9.632	0.5
	2462	9.632	0.5
802.11g	2412	16.448	0.5
	2437	16.48	0.5
	2462	16.512	0.5
802.11n HT20	2412	17.12	0.5
	2437	17.12	0.5
	2462	17.12	0.5
802.11n HT40	2422	33.664	0.5
	2437	33.408	0.5
	2452	33.6	0.5

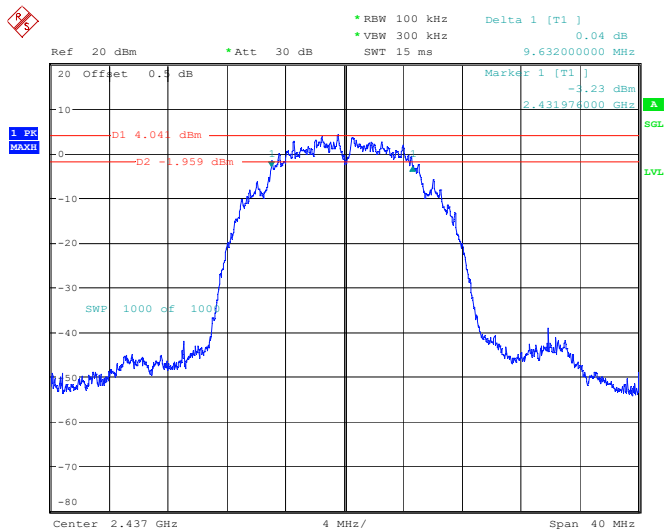
Please refer to below plots:

802.11b Mode Low Channel



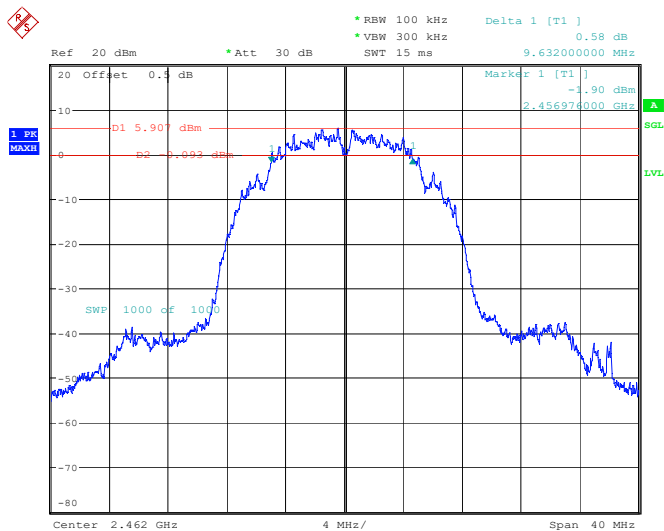
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:46:01

802.11b Mode Middle Channel



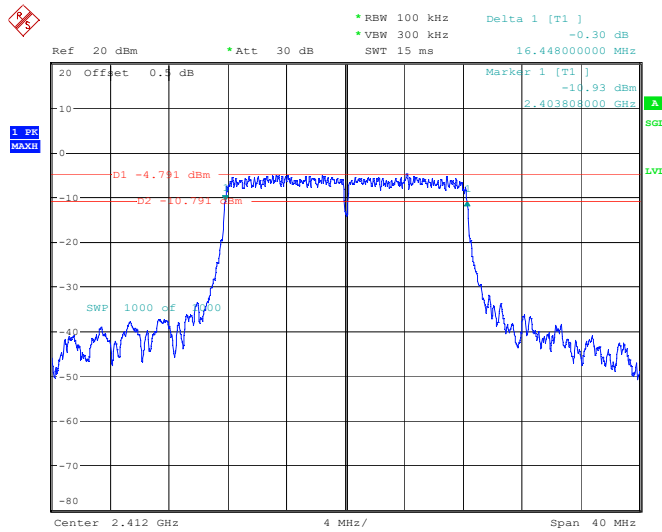
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:47:40

802.11b Mode High Channel



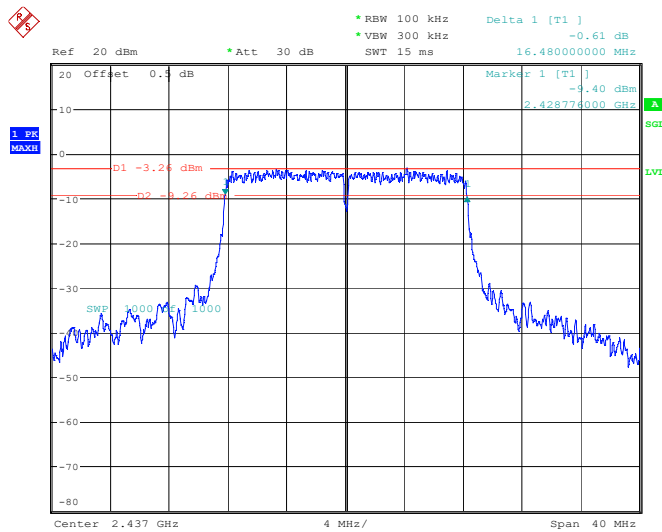
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:50:41

802.11g Mode Low Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
 Date: 11.SEP.2024 15:55:53

802.11g Mode Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
 Date: 11.SEP.2024 16:01:31

*RBW 100 kHz
 *VBW 300 kHz
 SWT 15 ms

Ref 20 dBm
 *Att 30 dB

Delta 1 [T1]
 -0.41 dBm
 16.51200000 MHz

Marker 1 [T1]
 -8.05 dBm
 2.453744000 MHz

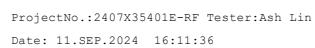
1 PR
 MAX

-0.41 dBm
 -1.796 dBm
 -7.796 dBm

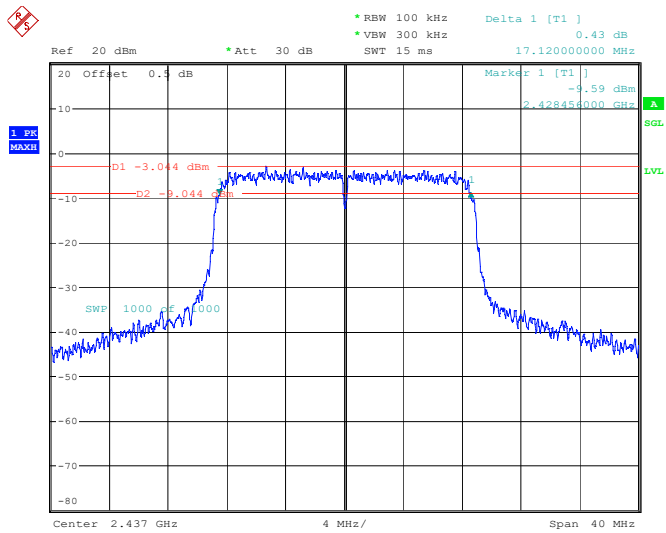
1000

Center 2.462 GHz
 4 MHz/
 Span 40 MHz

802.11n-ht20 Mode Low Channel

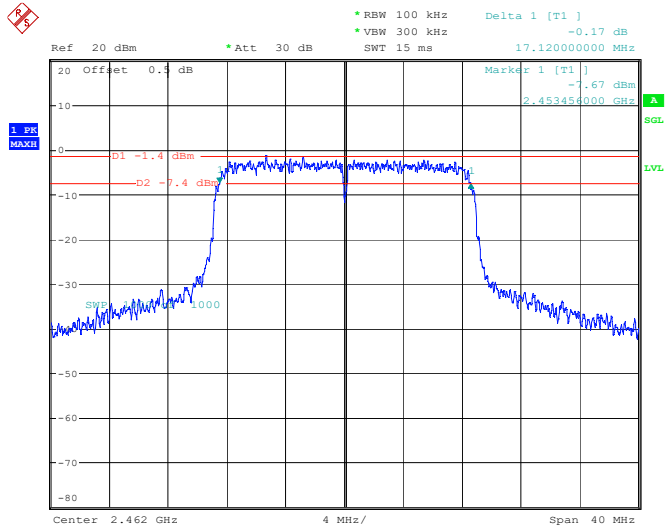


802.11n-ht20 Mode Middle Channel



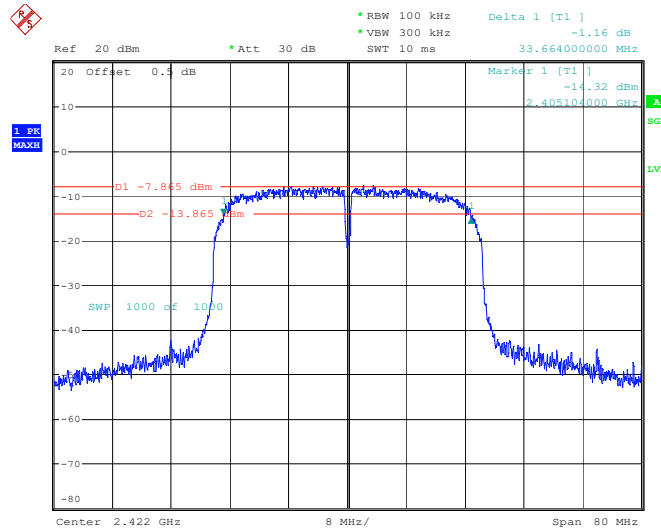
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:13:27

802.11n-ht20 Mode High Channel



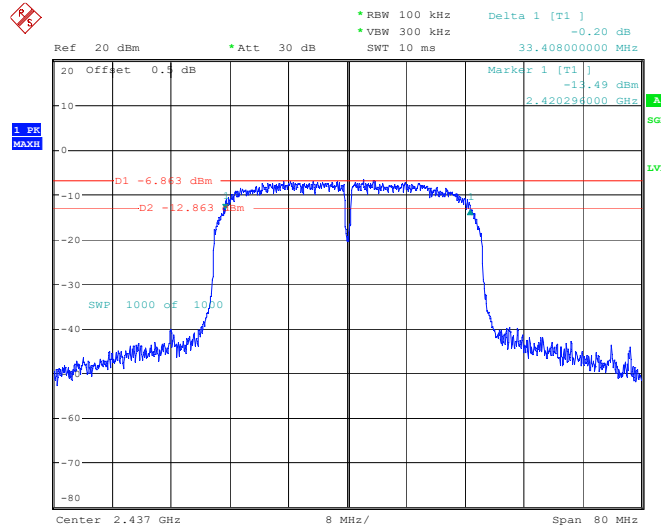
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:16:45

802.11n-ht40 Mode Low Channel



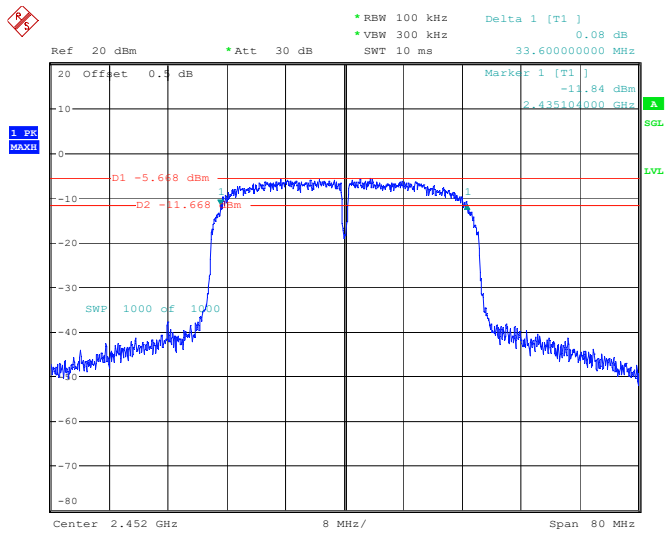
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:19:52

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:21:17

802.11n-ht40 Mode High Channel



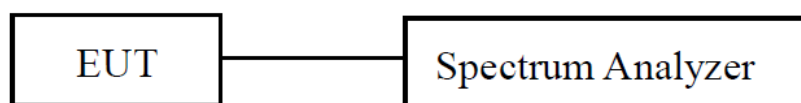
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:26:41

RSS-GEN ISSUE 5 Clause 6.7 – 99% OCCUPIED BANDWIDTH

Applicable Standard

According to RSS-GEN Issue 5 Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

EUT Setup**Test Procedure**

The following conditions shall be observed for measuring the occupied bandwidth:

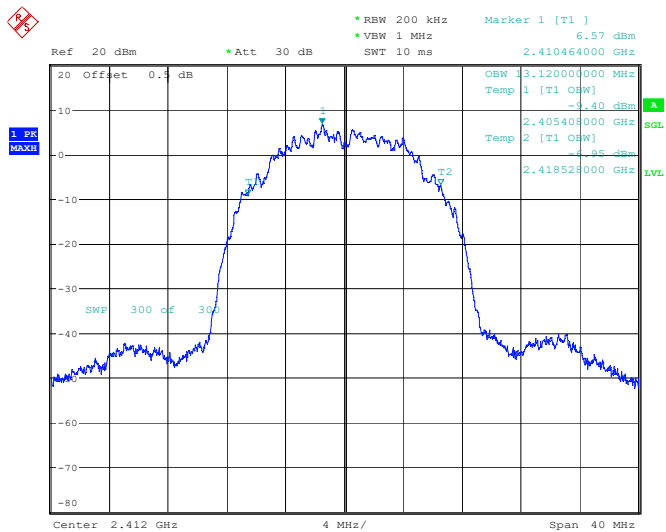
1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
 2. The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
 3. The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied if the device is not transmitting continuously.
 4. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.
- Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Data

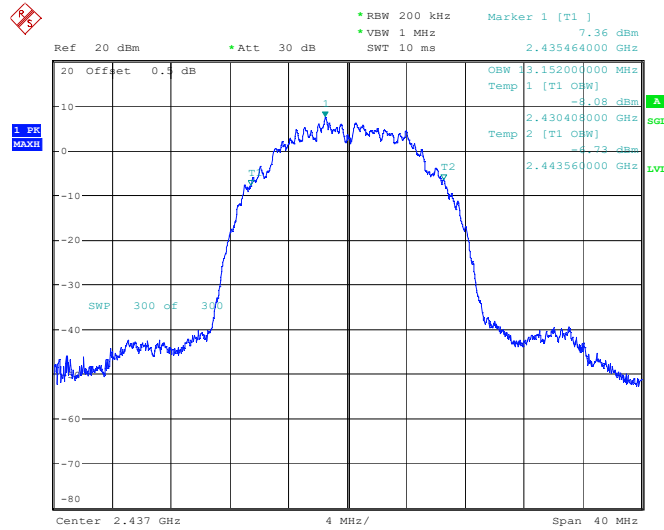
Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm : 100.2kPa
Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Lowest	2412	13.12
	Middle	2437	13.152
	Highest	2462	13.216
802.11g	Lowest	2412	16.384
	Middle	2437	16.416
	Highest	2462	16.448
802.11n ht20	Lowest	2412	17.248
	Middle	2437	17.248
	Highest	2462	17.28
802.11n ht40	Lowest	2422	34.496
	Middle	2437	34.56
	Highest	2452	34.56

802.11b Mode Low Channel



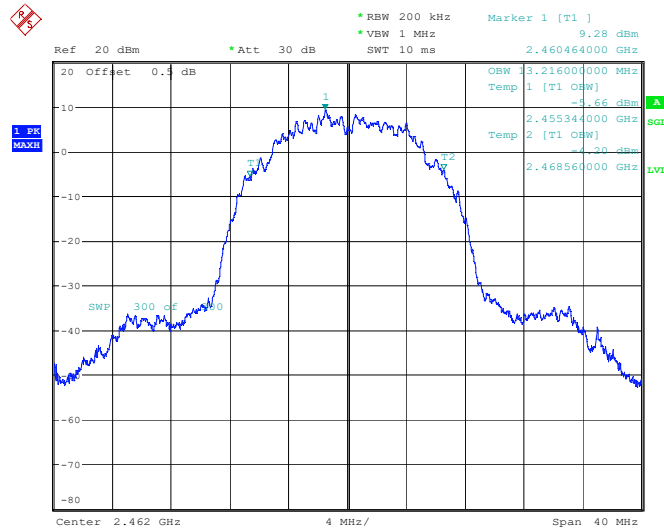
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:44:41

802.11b Mode Middle Channel



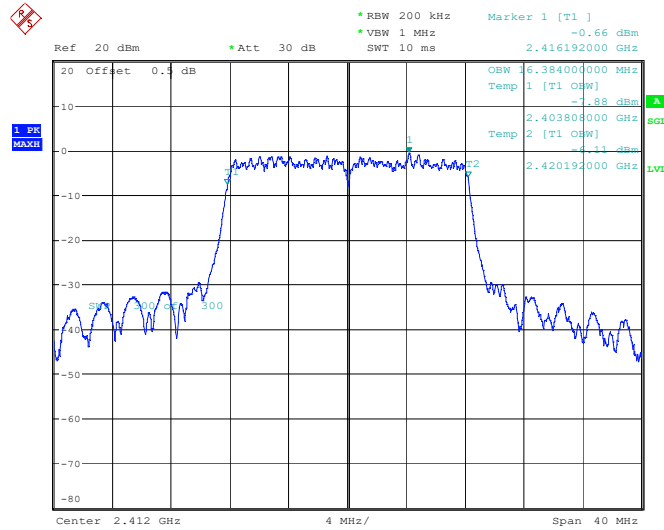
ProjectNo.:2407X35401E-RF Tester:Ash Lin
 Date: 11.SEP.2024 15:46:33

802.11b Mode High Channel



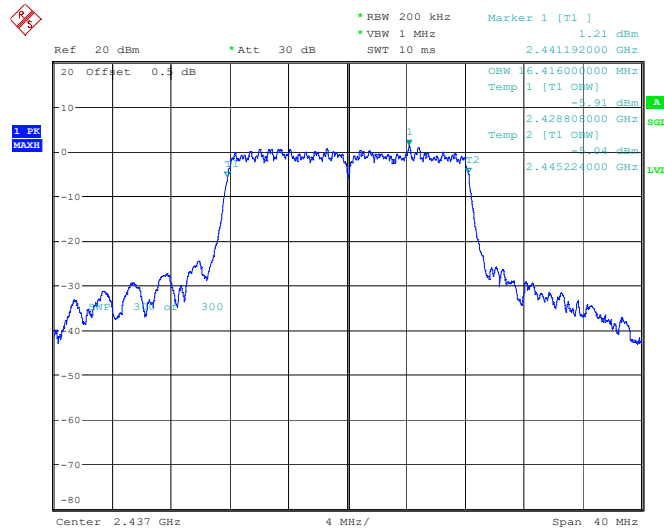
ProjectNo.:2407X35401E-RF Tester:Ash Lin
 Date: 11.SEP.2024 15:49:02

802.11g Mode Low Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 15:54:33

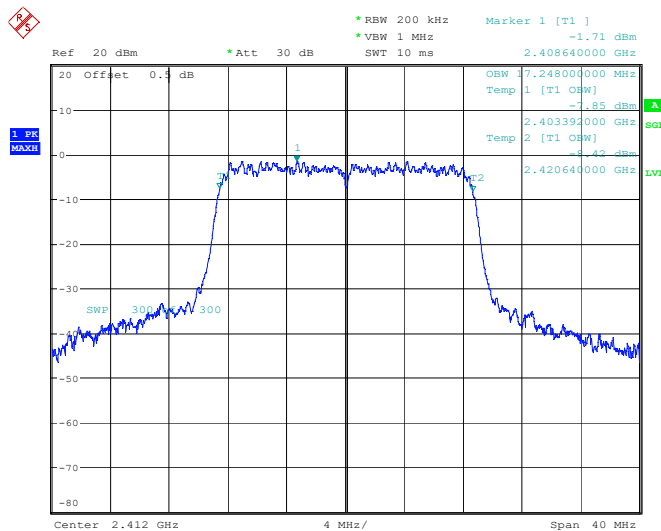
802.11g Mode Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:00:23

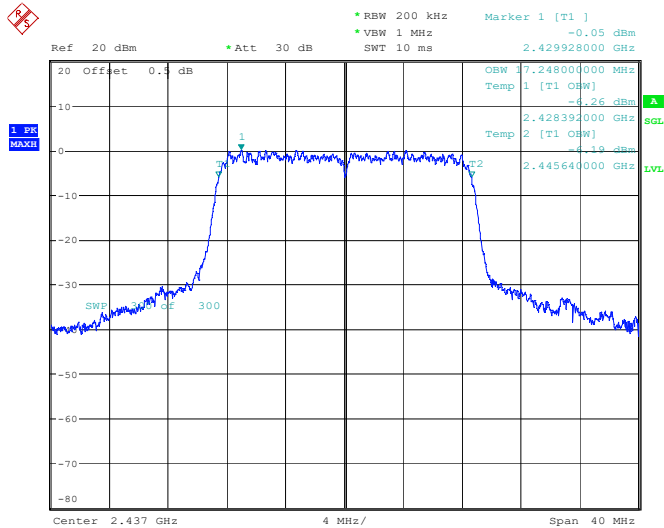
[illegible]

802.11n-ht20 Mode Low Channel



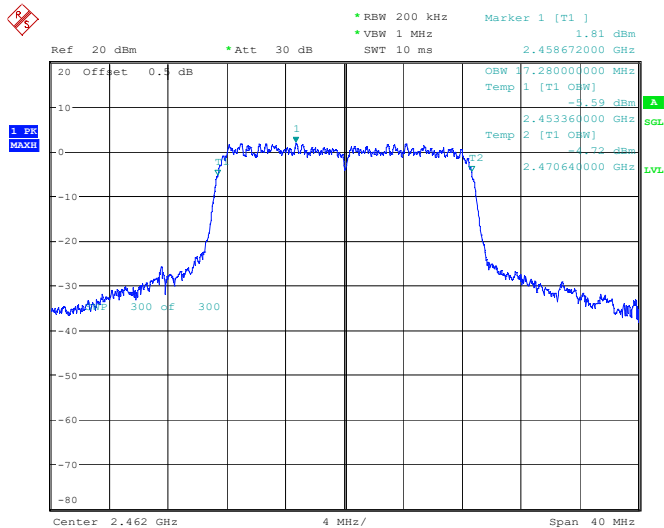
Page 106 of 128

802.11n-ht20 Mode Middle Channel



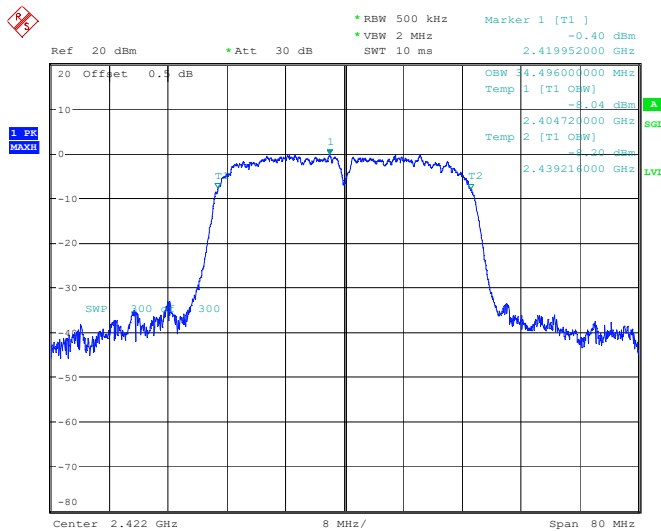
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:12:20

802.11n-ht20 Mode High Channel



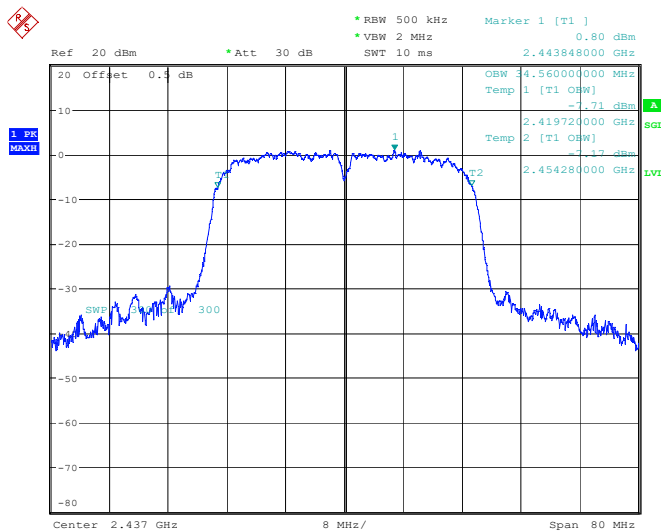
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:15:06

802.11n-ht40 Mode Low Channel



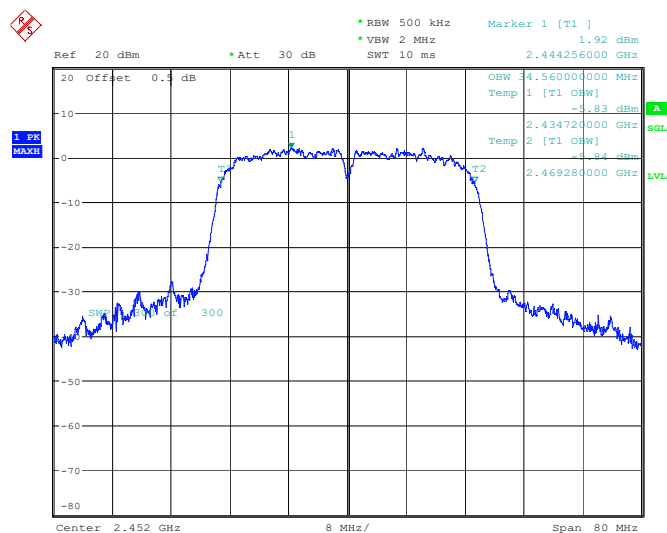
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:19:00

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:20:25

802.11n-ht40 Mode High Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:25:54

FCC §15.247(b) (3) & RSS-247 Clause 5.4 (d) - MAXIMUM CONDUCTED OUTPUT POWER

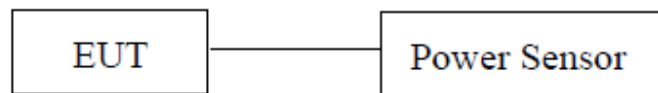
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

According to RSS-247 Clause 5.4 d, for DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup



Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

Test Data

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm : 100.2kPa
Test Modes	Test Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
802.11b	2412	17.43	30
	2437	18.22	30
	2462	18.2	30
802.11g	2412	16.78	30
	2437	16.86	30
	2462	18.2	30
802.11n ht20	2412	17.25	30
	2437	16.78	30
	2462	18.21	30
802.11n ht40	2422	16.71	30
	2437	16.86	30
	2452	16.52	30
Antenna Gain(dBi):	3.71	Max.EIRP(dBm):	21.93
EIRP Limit for RSS-247:36 dBm			

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

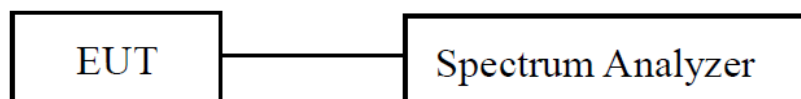
FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

EUT Setup



Test Procedure

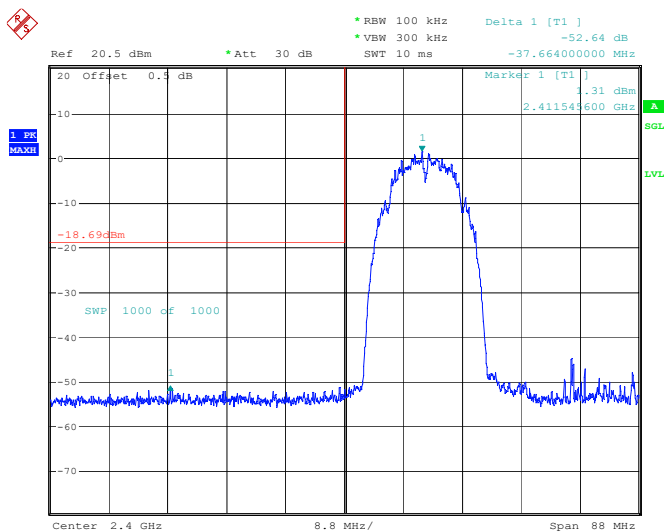
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.1 Humi.: 59 Atm : 100.2kPa

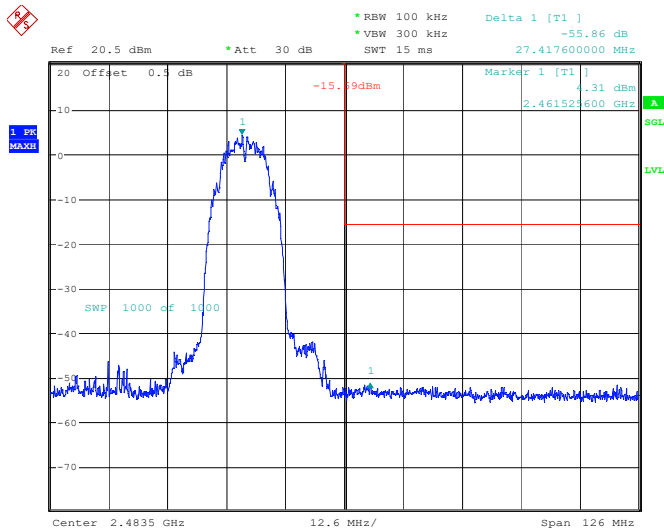
Please refer to below plots:

802.11b Mode Left Side



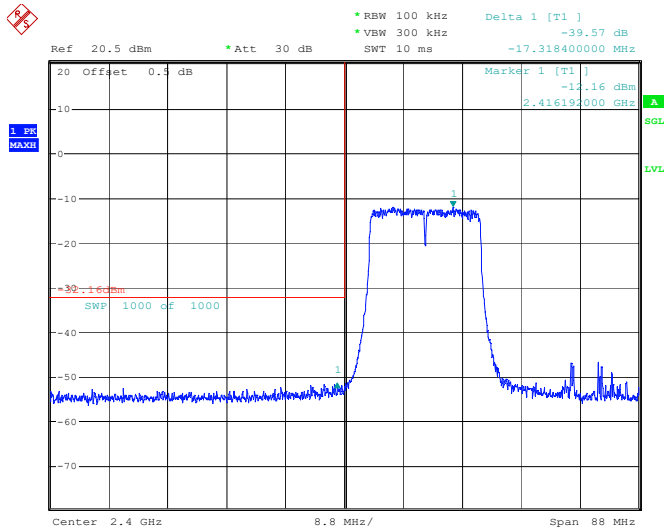
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:28:45

802.11b Mode Right Side



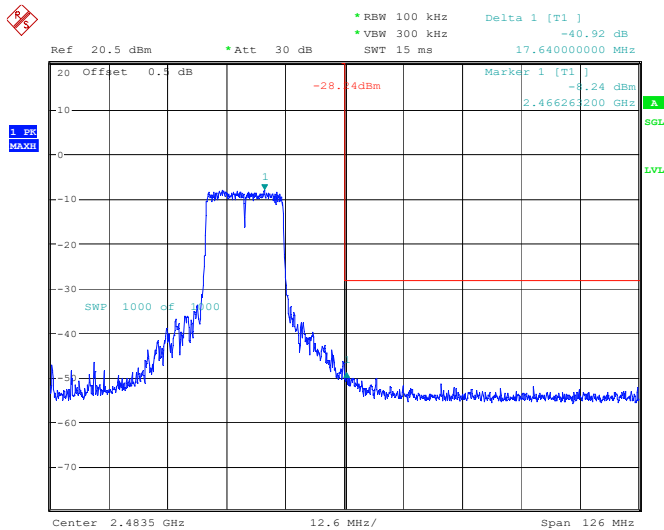
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802.11g Mode Left Side



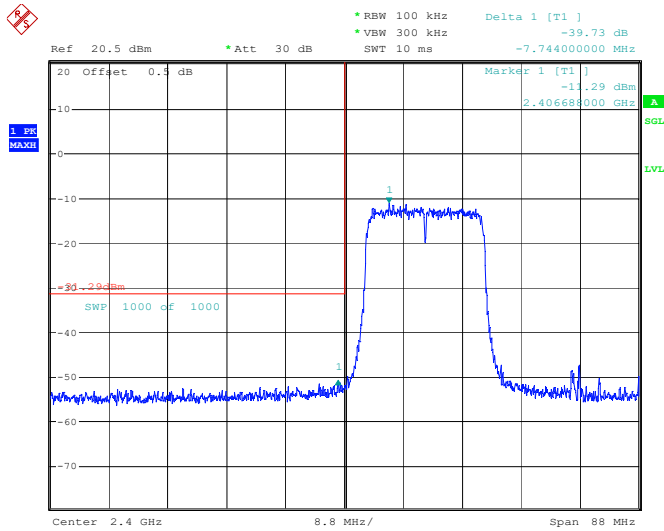
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Date: 11.SEP.2024 16:31:26

802.11g Mode Right Side



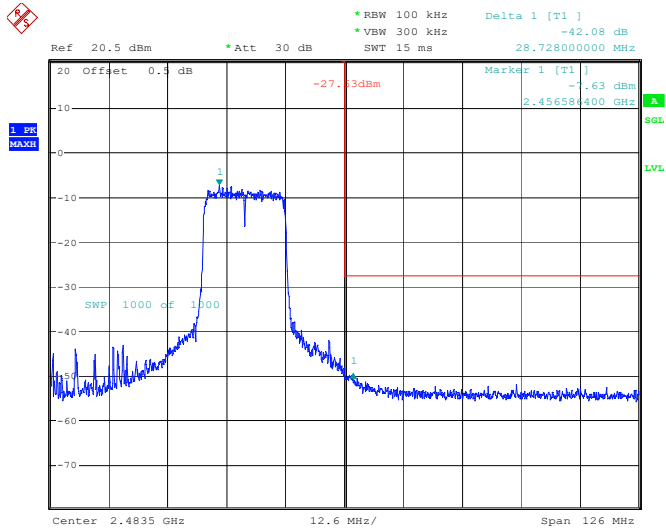
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:33:47

802.11n-ht20 Mode Left Side



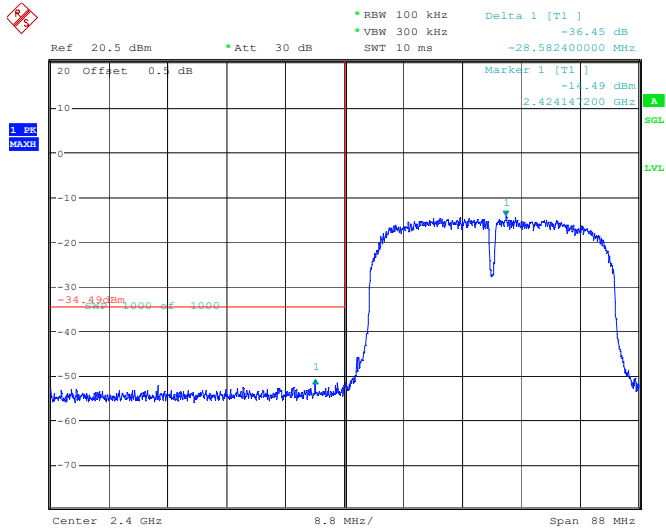
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Date: 11.SEP.2024 16:34:53

802.11n-ht20 Mode Right Side



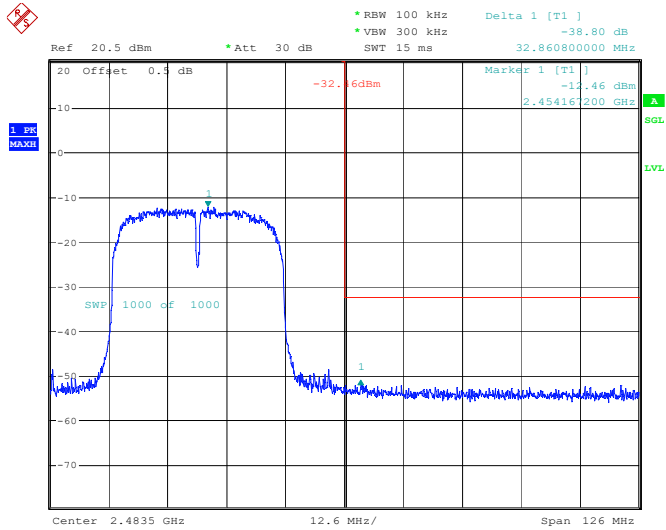
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:37:27

802.11n-ht40 Mode Left Side



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:43:19

802.11n-ht40 Mode Right Side



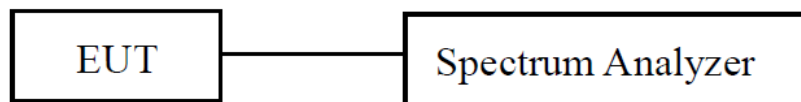
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:44:47

FCC §15.247(e) & RSS-247 CLAUSE5.2 b- POWER SPECTRAL DENSITY**Applicable Standard****FCC §15.247 (e)**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

RSS-247 Clause5.2 b

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

EUT Setup**Test Procedure**

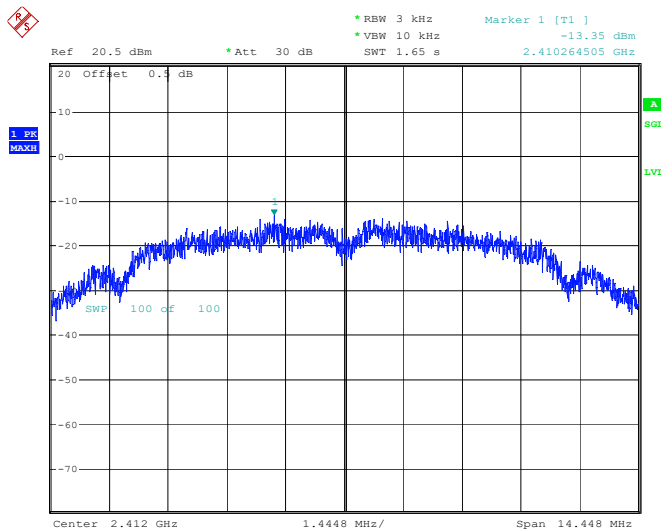
1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Data

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-09-11	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm : 100.2kPa
Test Modes	Test Frequency (MHz)	Reading (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-13.35	8.00
	2437	-12.84	8.00
	2462	-11.26	8.00
802.11g	2412	-25.81	8.00
	2437	-24.11	8.00
	2462	-22.18	8.00
802.11nHT20	2412	-25.5	8.00
	2437	-23.9	8.00
	2462	-21.86	8.00
802.11nHT40	2422	-26.24	8.00
	2437	-25.21	8.00
	2452	-24.33	8.00

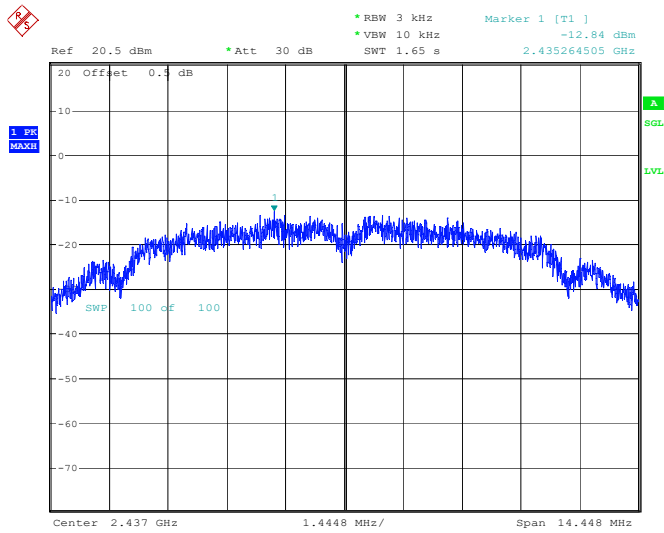
Please refer to below plots:

802.11b Mode Low Channel



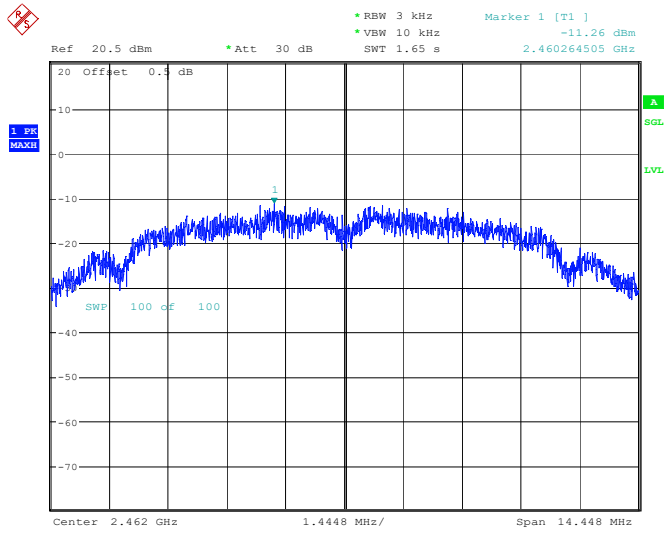
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 16:53:38

802.11b Mode Middle Channel



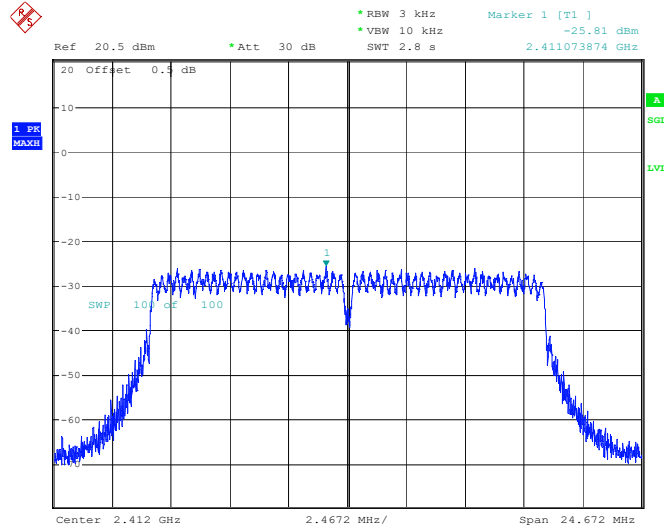
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Date: 11.SEP.2024 16:57:26

802.11b Mode High Channel



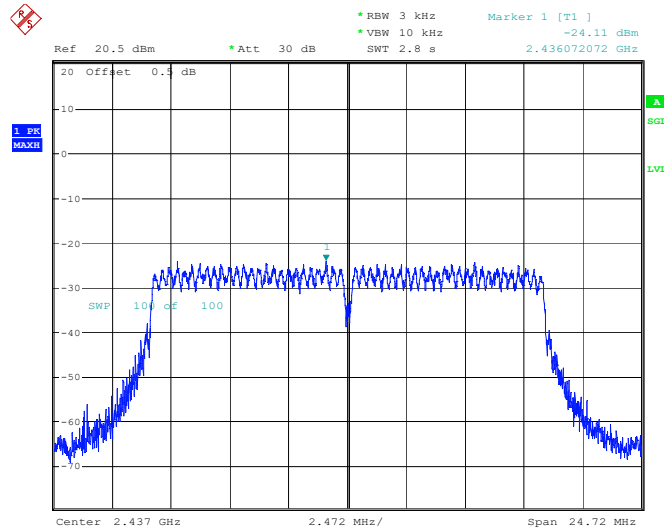
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Date: 11.SEP.2024 17:00:56

802.11g Mode Low Channel



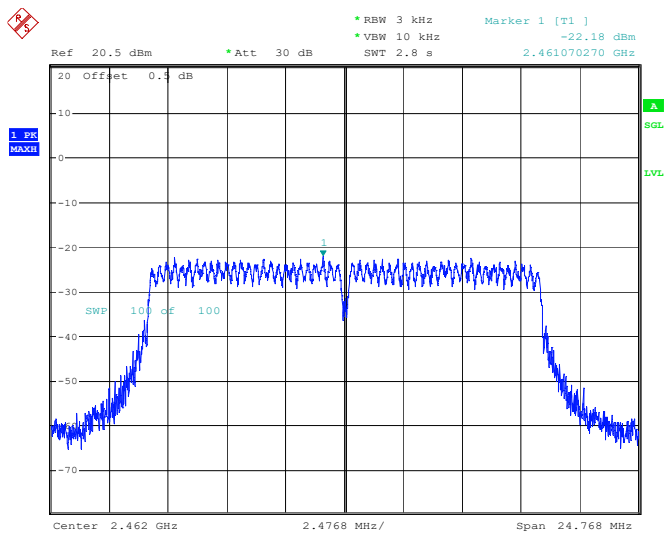
ProjectNo.:2407X35401E-RF Tester:Ash Lin
 Date: 11.SEP.2024 17:06:20

802.11g Mode Middle Channel



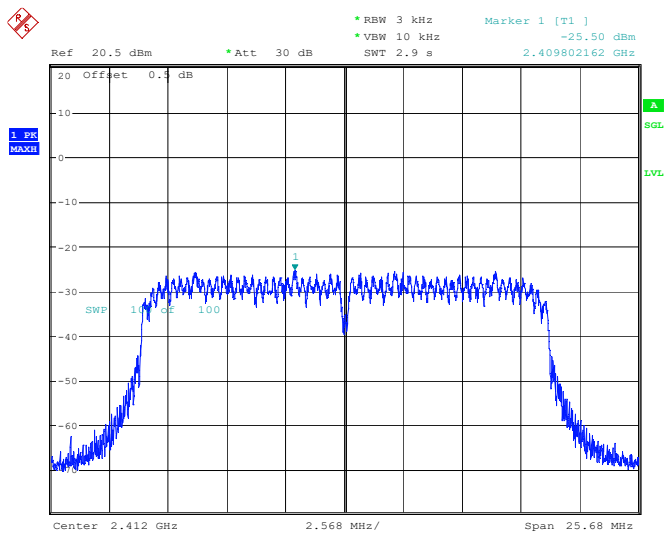
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 Date: 11.SEP.2024 17:11:39

802.11g Mode High Channel



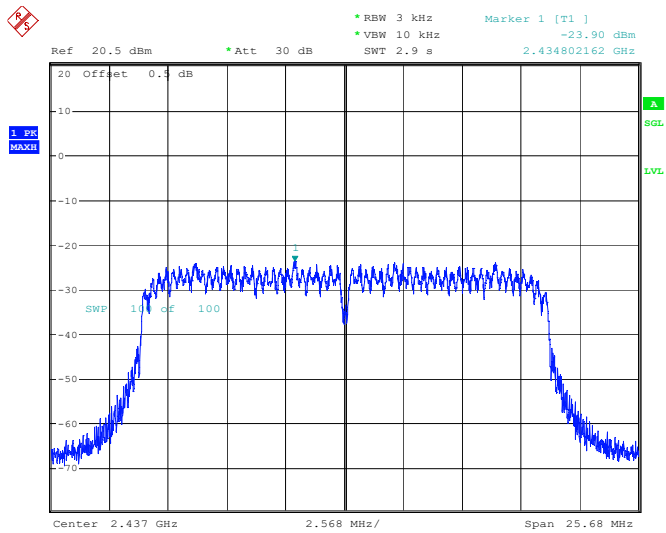
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Date: 11.SEP.2024 17:17:02

802.11n-ht20 Mode Low Channel



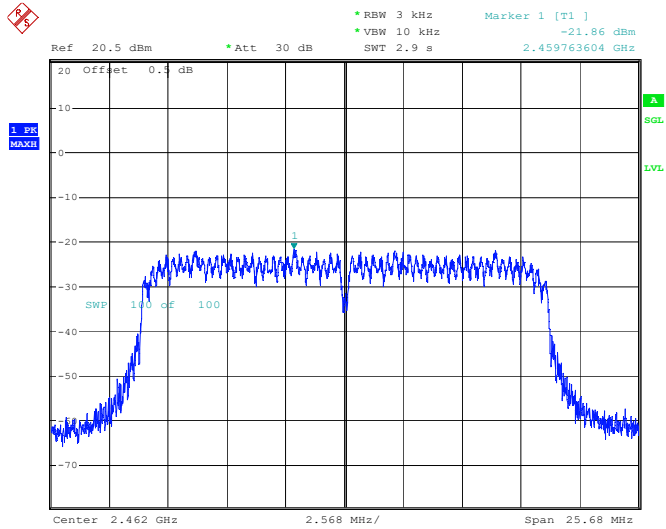
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Date: 11.SEP.2024 17:22:12

802.11n-ht20 Mode Middle Channel



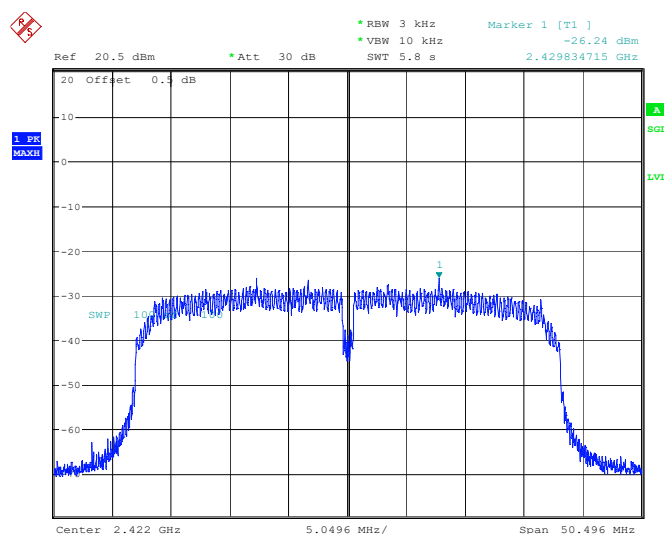
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 17:58:11

802.11n-ht20 Mode High Channel



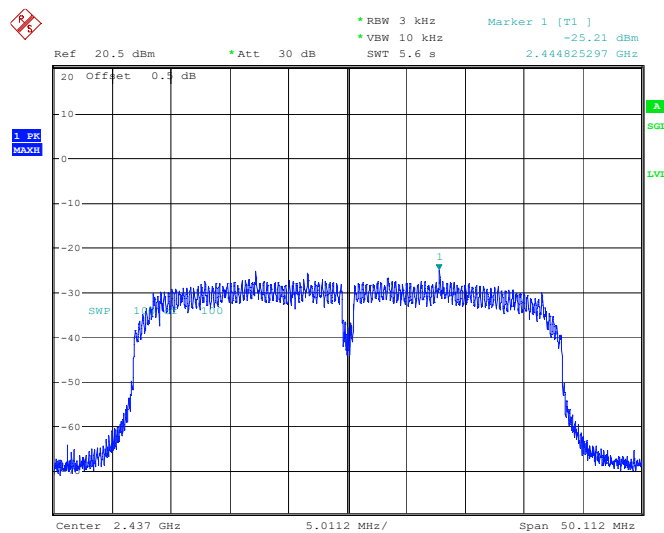
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Date: 11.SEP.2024 18:03:37

802.11n-ht40 Mode Low Channel



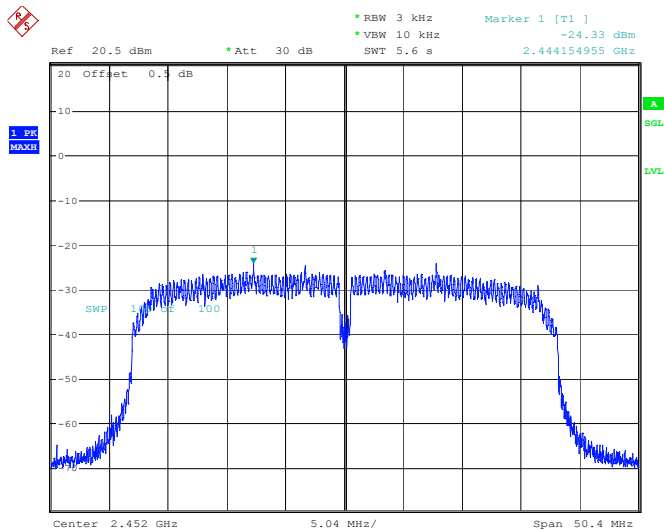
ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 18:14:04

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 18:24:36

802.11n-ht40 Mode High Channel



ProjectNo.:2407X35401E-RF Tester:Ash Lin
Date: 11.SEP.2024 18:34:40

EUT PHOTOGRAPHS

Please refer to the attachment 2407X35401E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2407X35401E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407X35401E-RF-TSP SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
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